

PROJECT MANUAL

CITY OF ORANGE BEACH

Orange Beach, Alabama

for

New Sewer Force Main Canal Road to CR-12

(RESTORE ACT)

#S1P23-OBSU

September 2021

CONSTRUCTION DOCUMENTS



Prepared By

GMC

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GMC PROJECT NUMBER: CMOB190340

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NEW SEWER FORCE MAIN CANAL ROAD TO CR-12

**FOR THE CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA**

RESTORE PROJECT No. S1P23-OBSU

GMC PROJECT NO. CMOB190340

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NOT FOR BIDDING

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MEMO

To: All Plan Holders

From: Patrick R. Strom II, PE

Subject: NEW SEWER FORCE MAIN CANAL ROAD TO CR-12
FOR THE CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA
RESTORE PROJECT NO. S1P23-OBSU
GMC PROJECT NO. CMOB190340

Date: SEPTEMBER 2021

Please be advised that all questions or comments for the above subject project will be accepted in writing only via fax or email. All questions or comments must be received in this office by 5:00 P.M., Thursday, October 28, 2021.

You can email comments and questions to matt.walker@gmcnetwork.com. Appropriate responses will be issued only to those items considered necessary by the Engineer via an addendum.

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**INVITATION FOR CONSTRUCTION BIDS (RESTORE Council-Specific)
NEW SEWER FORCE MAIN CANAL ROAD TO CR-12
CITY OF ORANGE BEACH, ALABAMA**

ADVERTISEMENT FOR BIDS

Separate sealed Bids for the Construction of the **NEW SEWER FORCE MAIN CANAL ROAD TO CR-12 S1P23-OBSU, GMC PROJECT NO. CMOB190340** will be received by the **CITY OF ORANGE BEACH** herein called the "Owner," at City Hall located at 4099 Orange Beach Blvd., Orange Beach, AL 36561, until **10:00 A.M. local time on Thursday, November 4, 2021**, at which time the Bids received will be publicly opened and read. The Project consists of the construction of installation of approximately 15,500 linear feet of 12 inch force main; 16,400 linear feet of 14 inch force main; 4,500 linear feet of 16 inch force main; 1,500 linear feet of 14 inch HDD force main; 2,500 linear feet of 16 inch HDD force main; 2,160 linear feet of 20 inch HDD force main and related appurtenances. **Three hundred sixty-five (365) calendar days** are allotted for this project.

A MANDATORY Pre-Bid Conference will be held onsite 4099 Orange Beach Blvd., Orange Beach, AL 36561 on Thursday, October 21, 2021 at 10:00 A.M. Local Time with a site visit to follow, to discuss bidding and project requirements. Prospective bidders and subcontractors are required to attend.

The Bid Schedule may be examined at the following locations:

A. Alabama Department of Economic and Community Affairs, Office of Minority Business Enterprise, 401 Alamo Avenue, Montgomery, AL 39104.

B. The Issuing Office for the Bidding Documents is Goodwyn Mills & Cawood, Inc., 11 North Water Street, Suite 15250, Mobile, AL 36602, Attn: Ashley Morris (251) 430-4006 Ashley.Morris@gmcnetwork.com. Prospective Bidders may examine the Bidding Documents at the Issuing Office on Monday through Friday between the hours of 8:00 a.m. – 5:00 p.m. and may obtain copies of the Bidding Documents from the Issuing Office as described below.

Copies of the Bidding Documents may be obtained from the Issuing Office, during the hours indicated above, upon payment of \$20.00 for a one-time administrative fee for digital/file sharing access or \$250.00 for each (printed) set. Contractors are encouraged to use the digital plans. Said cost represents the cost of printing, reproduction, handling, and distribution, therefore no refund will be granted. Checks shall be made payable to "GMC" Bid documents will be mailed only upon receipt of deposit. No bid documents will be distributed later than 24 hours prior to the scheduled opening of bids. Partial sets of Bidding Documents will not be available from the Issuing Office. Neither Owner nor Engineer will be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than the Issuing Office.

For the list of plan holders on this project visit <http://www.gmcnetwork.com/bids/>.

Bid security shall be furnished in accordance with the Instructions to Bidders.

Any contract awarded under this Invitation for Bids may be paid for in whole or in part with grant funding from the Gulf Coast Ecosystem Restoration Council ("RESTORE Council", also "Council") and the Alabama Department of Conservation and Natural Resources ("ADCNR") under the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act). Any contract resulting from this solicitation will be subject to the terms and conditions of the funding award, the RESTORE Council Financial Assistance Standard Terms and Conditions, including any Special Award Conditions, the Standard Sub-Award Terms and Conditions, the RESTORE Act, 33 U. S. C. 1321(t) et seq., the U.S. Department of the Treasury Regulations 31 C. F. R. § 34 et seq., including 31 C. F. R. §§ 34, Subpart F, all applicable terms and conditions in 2 C. F. R. Part 200 of the Office of Management and Budget ("OMB") Uniform Guidance for Grants and Cooperative Agreements, as amended, (including Appendix II to Part 200), and all other OMB circulars, executive orders or other federal laws or regulations, as applicable. Notwithstanding the above, neither ADCNR nor the RESTORE Council, or any of their agents, representatives, or employees, is or will be a party to this Invitation for Bids or any resulting contract.

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Further, any contractor awarded a contract under this Invitation for Bids shall not be deemed to be an agent, representative, employee or servant of ADCNR or the RESTORE Council.

This project is being funded by RESTORE ACT Project No. S1P23-OBSU and is subject to its conditions, including but not limited to compliance with the Davis-Bacon Act, documentation of DUNS Number, and Disadvantaged Business Enterprises (DBE) and Women's Business Enterprises (WBE) requirement.

All bidders are required to provide DUNS Number and register with www.sam.gov.

Minority and women's business enterprises are solicited to bid on this contract as prime contractors and are encouraged to make inquiries regarding potential subcontracting opportunities and equipment, material and/or supply needs.

All bidders must make positive efforts to use small and minority owned business and women business enterprises.

The Owner reserves the right to waive any informalities, or to reject any or all bids, and to award the contract to the best and most responsible bidder. All bidders shall submit, upon request, a list of projects "successfully completed" in the last 5 years, having the same scope of work and approximate construction cost as specified in this project. All bidders must comply with requirements of the Contractor's Licensing Law of the State of Alabama and be certified for the type of work on which the proposal is submitted. Each bidder must deposit with his bid, security in the amount, form and subject to the conditions provided in the Instructions to Bidders.

All Bidders bidding in amounts exceeding that established by the State Licensing Board for General Contractors must be licensed under the provisions of Title 34, Chapter 8, Code of Alabama, 1975, and must show evidence of license before bidding or bid will not be received or considered by the Engineer; the Bidder shall show such evidence by clearly displaying the license number on the outside of the envelope in which the Proposal is delivered.

Bid guarantee in the form of certified check or bid bond will be required for at least 5% of the bid amount. No bidder may withdraw his bid within 90 days after the opening thereof.

All bidders must comply with the President's Executive Order Number 11246 which prohibits discrimination in employment regarding race, creed, color, sex or national origin. The City of Orange Beach is an Equal Opportunity Employer.

All Bids must be submitted in a sealed envelope bearing on the outside of the envelope the name of the Bidder, Bidder's license and DUNS number. Envelopes containing bids must be addressed as follows, and delivered to: *Honorable Tony Kennon, Mayor, City of Orange Beach, 4099 Orange Beach Blvd., Orange Beach, AL 36561*: **"New Force Main Canal Road to CR-12 #S1P23-OBSU, GMC PROJECT NO. CMOB190340."**

Owner: **City Orange Beach**

By: **Tony Kennon, Mayor**

++ END OF ADVERTISEMENT FOR BIDS ++

NOT FOR BIDDING

IMMIGRATION STATUS VERIFICATION

1.1 GENERAL:

A. Bidders are hereby reminded that they are required to comply with requirements of Alabama Immigration Law, Act 2011-535 (also referred to as the "Beason-Hammon Alabama Taxpayer and Citizen Protection Act", or H.B. 658), as amended by Act No. 2012-491, including in part and effective January 1, 2012, **enrollment in the E-Verify Program of the United States Department of Homeland Security:**

1. Contractor's signed "E-Verify Memorandum of Understanding" will be required to be attached to any Contract awarded.
2. General Contractors and Subcontractors shall be enrolled in, participate in and maintain compliance for the duration of this contract, and as otherwise required by statute.

B. The following statement shall and will be included in the Contract for Construction:

"By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the state of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom."

C. Additional information and Guidance is available at the following websites:

1. E-Verify portal maintained by State of Alabama: <http://immigration.alabama.gov>
2. Alabama Office of the Attorney General Website: <http://www.ago.alabama.gov/Page-Immigration>
3. Alabama Bidding Commission: <http://www.bc.state.al.us/PDFs/Bulletins/GuidanceonAct2012-491-DatedMay-29-2012.pdf>
4. US Department of Homeland Security, E-Verify: www.dhs.gov/E-Verify

END OF SECTION

NOT FOR BIDDING

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**THE E-VERIFY
MEMORANDUM OF UNDERSTANDING
FOR EMPLOYERS**

**ARTICLE I
PURPOSE AND AUTHORITY**

The parties to this agreement are the Department of Homeland Security (DHS) and the _____ (Employer). The purpose of this agreement is to set forth terms and conditions which the Employer will follow while participating in E-Verify.

E-Verify is a program that electronically confirms an employee's eligibility to work in the United States after completion of Form I-9, Employment Eligibility Verification (Form I-9). This Memorandum of Understanding (MOU) explains certain features of the E-Verify program and describes specific responsibilities of the Employer, the Social Security Administration (SSA), and DHS.

Authority for the E-Verify program is found in Title III, Subtitle A, of the Illegal Immigration Reform and Immigrant Responsibility Act of 1996 (IIRIRA), Public Law 104-208, 110 Stat. 3009, as amended (8 U.S.C. § 1324a note). The Federal Acquisition Regulation (FAR) Subpart 22.18, "Employment Eligibility Verification" and Executive Order 12958, as amended, provide authority for Federal contractors and subcontractors (Federal contractor) to use E-Verify to verify the employment eligibility of certain employees working on Federal contracts.

**ARTICLE II
RESPONSIBILITIES**

A. RESPONSIBILITIES OF THE EMPLOYER

1. The Employer agrees to display the following notices supplied by DHS in a prominent place that is clearly visible to prospective employees and all employees who are to be verified through the system:
 - a. Notice of E-Verify Participation
 - b. Notice of Right to Work
2. The Employer agrees to provide to the SSA and DHS the names, titles, addresses, and telephone numbers of the Employer representatives to be contacted about E-Verify. The Employer also agrees to keep such information current by providing updated information to SSA and DHS whenever the representatives' contact information changes.
3. The Employer agrees to grant E-Verify access only to current employees who need E-Verify access. Employers must promptly terminate an employee's E-Verify access if the employer is separated from the company or no longer needs access to E-Verify.

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4. The Employer agrees to become familiar with and comply with the most recent version of the E-Verify User Manual.

5. The Employer agrees that any Employer Representative who will create E-Verify cases will complete the E-Verify Tutorial before that individual creates any cases.

a. The Employer agrees that all Employer representatives will take the refresher tutorials when prompted by E-Verify in order to continue using E-Verify. Failure to complete a refresher tutorial will prevent the Employer Representative from continued use of E-Verify.

6. The Employer agrees to comply with current Form I-9 procedures, with two exceptions:

a. If an employee presents a "List B" identity document, the Employer agrees to only accept "List B" documents that contain a photo. (List B documents identified in 8 C.F.R. § 274a.2(b)(1)(B)) can be presented during the Form I-9 process to establish identity.) If an employee objects to the photo requirement for religious reasons, the Employer should contact E-Verify at 888-464-4218.

b. If an employee presents a DHS Form I-551 (Permanent Resident Card), Form I-766 (Employment Authorization Document), or U.S. Passport or Passport Card to complete Form I-9, the Employer agrees to make a photocopy of the document and to retain the photocopy with the employee's Form I-9. The Employer will use the photocopy to verify the photo and to assist DHS with its review of photo mismatches that employees contest. DHS may in the future designate other documents that activate the photo screening tool.

Note: Subject only to the exceptions noted previously in this paragraph, employees still retain the right to present any List A, or List B and List C, document(s) to complete the Form I-9.

7. The Employer agrees to record the case verification number on the employee's Form I-9 or to print the screen containing the case verification number and attach it to the employee's Form I-9.

8. The Employer agrees that, although it participates in E-Verify, the Employer has a responsibility to complete, retain, and make available for inspection Forms I-9 that relate to its employees, or from other requirements of applicable regulations or laws, including the obligation to comply with the antidiscrimination requirements of section 274B of the INA with respect to Form I-9 procedures.

a. The following modified requirements are the only exceptions to an Employer's obligation to not employ unauthorized workers and comply with the anti-discrimination provision of the INA: (1) List B identity documents must have photos, as described in paragraph 6 above; (2) When an Employer confirms the identity and employment eligibility of newly hired employee using E-Verify procedures, the Employer establishes a rebuttable presumption that it has not violated section 274A(a)(1)(A) of the Immigration and Nationality Act (INA) with respect to the hiring of that employee; (3) If the Employer receives a final nonconfirmation for an employee, but continues to employ that person, the Employer must notify DHS and the Employer is subject to a civil money penalty between \$550 and \$1,100 for each failure to notify DHS of continued employment following a final nonconfirmation; (4) If the Employer continues to employ an employee after receiving a final nonconfirmation, then the Employer is subject to a rebuttable presumption that it has knowingly

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employed an unauthorized alien in violation of section 274A(a)(1)(A); and (5) no E-Verify participant is civilly or criminally liable under any law for any action taken in good faith based on information provided through the E-Verify.

b. DHS reserves the right to conduct Form I-9 compliance inspections, as well as any other enforcement or compliance activity authorized by law, including site visits, to ensure proper use of E-Verify.

9. The Employer is strictly prohibited from creating an E-Verify case before the employee has been hired, meaning that a firm offer of employment was extended and accepted and Form I-9 was completed. The Employer agrees to create an E-Verify case for new employees within three Employer business days after each employee has been hired (after both Sections 1 and 2 of Form I-9 have been completed), and to complete as many steps of the E-Verify process as are necessary according to the E-Verify User Manual. If E-Verify is temporarily unavailable, the three-day time period will be extended until it is again operational in order to accommodate the Employer's attempting, in good faith, to make inquiries during the period of unavailability.

10. The Employer agrees not to use E-Verify for pre-employment screening of job applicants, in support of any unlawful employment practice, or for any other use that this MOU or the E-Verify User Manual does not authorize.

11. The Employer must use E-Verify for all new employees. The Employer will not verify selectively and will not verify employees hired before the effective date of this MOU. Employers who are Federal contractors may qualify for exceptions to this requirement as described in Article II.B of this MOU.

12. The Employer agrees to follow appropriate procedures (see Article III below) regarding tentative nonconfirmations. The Employer must promptly notify employees in private of the finding and provide them with the notice and letter containing information specific to the employee's E-Verify case. The Employer agrees to provide both the English and the translated notice and letter for employees with limited English proficiency to employees. The Employer agrees to provide written referral instructions to employees and instruct affected employees to bring the English copy of the letter to the SSA. The Employer must allow employees to contest the finding, and not take adverse action against employees if they choose to contest the finding, while their case is still pending. Further, when employees contest a tentative nonconfirmation based upon a photo mismatch, the Employer must take additional steps (see Article III.B. below) to contact DHS with information necessary to resolve the challenge.

13. The Employer agrees not to take any adverse action against an employee based upon the employee's perceived employment eligibility status while SSA or DHS is processing the verification request unless the Employer obtains knowledge (as defined in 8 C.F.R. § 274a.1(l)) that the employee is not work authorized. The Employer understands that an initial inability of the SSA or DHS automated verification system to verify work authorization, a tentative nonconfirmation, a case in continuance (indicating the need for additional time for the government to resolve a case), or the finding of a photo mismatch, does not establish, and should not be interpreted as, evidence that the employee is not work authorized. In any of such cases, the employee must be provided a full and fair opportunity to contest the finding, and if he or she does so, the employee may not be terminated or suffer any adverse employment consequences based upon the employee's perceived employment eligibility status

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(including denying, reducing, or extending work hours, delaying or preventing training, requiring an employee to work in poorer conditions, withholding pay, refusing to assign the employee to a Federal contract or other assignment, or otherwise assuming that he or she is unauthorized to work) until and unless secondary verification by SSA or DHS has been completed and a final nonconfirmation has been issued. If the employee does not choose to contest a tentative nonconfirmation or a photo mismatch or if a secondary verification is completed and a final nonconfirmation is issued, then the Employer can find the employee is not work authorized and terminate the employee's employment. Employers or employees with questions about a final nonconfirmation may call E-Verify at 1-888-464-4218 (customer service) or 1-888-897-7781 (worker hotline).

14. The Employer agrees to comply with Title VII of the Civil Rights Act of 1964 and section 274B of the INA as applicable by not discriminating unlawfully against any individual in hiring, firing, employment eligibility verification, or recruitment or referral practices because of his or her national origin or citizenship status, or by committing discriminatory documentary practices. The Employer understands that such illegal practices can include selective verification or use of E-Verify except as provided in part D below, or discharging or refusing to hire employees because they appear or sound "foreign" or have received tentative nonconfirmations. The Employer further understands that any violation of the immigration-related unfair employment practices provisions in section 274B of the INA could subject the Employer to civil penalties, back pay awards, and other sanctions, and violations of Title VII could subject the Employer to back pay awards, compensatory and punitive damages. Violations of either section 274B of the INA or Title VII may also lead to the termination of its participation in E-Verify. If the Employer has any questions relating to the anti-discrimination provision, it should contact OSC at 1-800-255-8155 or 1-800-237-2515 (TDD).

15. The Employer agrees that it will use the information it receives from E-Verify only to confirm the employment eligibility of employees as authorized by this MOU. The Employer agrees that it will safeguard this information, and means of access to it (such as PINS and passwords), to ensure that it is not used for any other purpose and as necessary to protect its confidentiality, including ensuring that it is not disseminated to any person other than employees of the Employer who are authorized to perform the Employer's responsibilities under this MOU, except for such dissemination as may be authorized in advance by SSA or DHS for legitimate purposes.

16. The Employer agrees to notify DHS immediately in the event of a breach of personal information. Breaches are defined as loss of control or unauthorized access to E-Verify personal data. All suspected or confirmed breaches should be reported by calling 1-888-464-4218 or via email at E-Verify@dhs.gov. Please use "Privacy Incident – Password" in the subject line of your email when sending a breach report to E-Verify.

17. The Employer acknowledges that the information it receives from SSA is governed by the Privacy Act (5 U.S.C. § 552a(i)(1) and (3)) and the Social Security Act (42 U.S.C. 1306(a)). Any person who obtains this information under false pretenses or uses it for any purpose other than as provided for in this MOU may be subject to criminal penalties.

18. The Employer agrees to cooperate with DHS and SSA in their compliance monitoring and evaluation of E-Verify, which includes permitting DHS, SSA, their contractors and other agents, upon

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reasonable notice, to review Forms I-9 and other employment records and to interview it and its employees regarding the Employer's use of E-Verify, and to respond in a prompt and accurate manner to DHS requests for information relating to their participation in E-Verify.

19. The Employer shall not make any false or unauthorized claims or references about its participation in E-Verify on its website, in advertising materials, or other media. The Employer shall not describe its services as federally-approved, federally-certified, or federally-recognized, or use language with a similar intent on its website or other materials provided to the public. Entering into this MOU does not mean that E-Verify endorses or authorizes your E-Verify services and any claim to that effect is false.

20. The Employer shall not state in its website or other public documents that any language used therein has been provided or approved by DHS, USCIS or the Verification Division, without first obtaining the prior written consent of DHS.

21. The Employer agrees that E-Verify trademarks and logos may be used only under license by DHS/USCIS (see [M-795 \(Web\)](#)) and, other than pursuant to the specific terms of such license, may not be used in any manner that might imply that the Employer's services, products, websites, or publications are sponsored by, endorsed by, licensed by, or affiliated with DHS, USCIS, or E-Verify.

22. The Employer understands that if it uses E-Verify procedures for any purpose other than as authorized by this MOU, the Employer may be subject to appropriate legal action and termination of its participation in E-Verify according to this MOU.

B. RESPONSIBILITIES OF FEDERAL CONTRACTORS

1. If the Employer is a Federal contractor with the FAR E-Verify clause subject to the employment verification terms in Subpart 22.18 of the FAR, it will become familiar with and comply with the most current version of the E-Verify User Manual for Federal Contractors as well as the E-Verify Supplemental Guide for Federal Contractors.

2. In addition to the responsibilities of every employer outlined in this MOU, the Employer understands that if it is a Federal contractor subject to the employment verification terms in Subpart 22.18 of the FAR it must verify the employment eligibility of any "employee assigned to the contract" (as defined in FAR 22.1801). Once an employee has been verified through E-Verify by the Employer, the Employer may not create a second case for the employee through E-Verify.

a. An Employer that is not enrolled in E-Verify as a Federal contractor at the time of a contract award must enroll as a Federal contractor in the E-Verify program within 30 calendar days of contract award and, within 90 days of enrollment, begin to verify employment eligibility of new hires using E-Verify. The Employer must verify those employees who are working in the United States, whether or not they are assigned to the contract. Once the Employer begins verifying new hires, such verification of new hires must be initiated within three business days after the hire date. Once enrolled in E-Verify as a Federal contractor, the Employer must begin verification of employees assigned to the contract within 90 calendar days after the date of enrollment or within 30 days of an employee's assignment to the contract, whichever date is later.

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b. Employers enrolled in E-Verify as a Federal contractor for 90 days or more at the time of a contract award must use E-Verify to begin verification of employment eligibility for new hires of the Employer who are working in the United States, whether or not assigned to the contract, within three business days after the date of hire. If the Employer is enrolled in E-Verify as a Federal contractor for 90 calendar days or less at the time of contract award, the Employer must, within 90 days of enrollment, begin to use E-Verify to initiate verification of new hires of the contractor who are working in the United States, whether or not assigned to the contract. Such verification of new hires must be initiated within three business days after the date of hire. An Employer enrolled as a Federal contractor in E-Verify must begin verification of each employee assigned to the contract within 90 calendar days after date of contract award or within 30 days after assignment to the contract, whichever is later.

c. Federal contractors that are institutions of higher education (as defined at 20 U.S.C. 1001(a)), state or local governments, governments of Federally recognized Indian tribes, or sureties performing under a takeover agreement entered into with a Federal agency under a performance bond may choose to only verify new and existing employees assigned to the Federal contract. Such Federal contractors may, however, elect to verify all new hires and/or all existing employees hired after November 6, 1986. Employers in this category must begin verification of employees assigned to the contract within 90 calendar days after the date of enrollment or within 30 days of an employee's assignment to the contract, whichever date is later.

d. Upon enrollment, Employers who are Federal contractors may elect to verify employment eligibility of all existing employees working in the United States who were hired after November 6, 1986, instead of verifying only those employees assigned to a covered Federal contract. After enrollment, Employers must elect to verify existing staff following DHS procedures and begin E-Verify verification of all existing employees within 180 days after the election.

e. The Employer may use a previously completed Form I-9 as the basis for creating an E-Verify case for an employee assigned to a contract as long as:

- i. That Form I-9 is complete (including the SSN) and complies with Article II.A.6,
- ii. The employee's work authorization has not expired, and
- iii. The Employer has reviewed the Form I-9 information either in person or in communications with the employee to ensure that the employee's Section 1, Form I-9 attestation has not changed (including, but not limited to, a lawful permanent resident alien having become a naturalized U.S. citizen).

f. The Employer shall complete a new Form I-9 consistent with Article II.A.6 or update the previous Form I-9 to provide the necessary information if:

- i. The Employer cannot determine that Form I-9 complies with Article II.A.6,
- ii. The employee's basis for work authorization as attested in Section 1 has expired or changed, or
- iii. The Form I-9 contains no SSN or is otherwise incomplete.

Note: If Section 1 of Form I-9 is otherwise valid and up-to-date and the form otherwise complies with

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Article II.C.5, but reflects documentation (such as a U.S. passport or Form I-551) that expired after completing Form I-9, the Employer shall not require the production of additional documentation, or use the photo screening tool described in Article II.A.5, subject to any additional or superseding instructions that may be provided on this subject in the E-Verify User Manual.

g. The Employer agrees not to require a second verification using E-Verify of any assigned employee who has previously been verified as a newly hired employee under this MOU or to authorize verification of any existing employee by any Employer that is not a Federal contractor based on this Article.

3. The Employer understands that if it is a Federal contractor, its compliance with this MOU is a performance requirement under the terms of the Federal contract or subcontract, and the Employer consents to the release of information relating to compliance with its verification responsibilities under this MOU to contracting officers or other officials authorized to review the Employer's compliance with Federal contracting requirements.

C. RESPONSIBILITIES OF SSA

1. SSA agrees to allow DHS to compare data provided by the Employer against SSA's database. SSA sends DHS confirmation that the data sent either matches or does not match the information in SSA's database.

2. SSA agrees to safeguard the information the Employer provides through E-Verify procedures. SSA also agrees to limit access to such information, as is appropriate by law, to individuals responsible for the verification of Social Security numbers or responsible for evaluation of E-Verify or such other persons or entities who may be authorized by SSA as governed by the Privacy Act (5 U.S.C. § 552a), the Social Security Act (42 U.S.C. 1306(a)), and SSA regulations (20 CFR Part 401).

3. SSA agrees to provide case results from its database within three Federal Government work days of the initial inquiry. E-Verify provides the information to the Employer.

4. SSA agrees to update SSA records as necessary if the employee who contests the SSA tentative nonconfirmation visits an SSA field office and provides the required evidence. If the employee visits an SSA field office within the eight Federal Government work days from the date of referral to SSA, SSA agrees to update SSA records, if appropriate, within the eight-day period unless SSA determines that more than eight days may be necessary. In such cases, SSA will provide additional instructions to the employee. If the employee does not visit SSA in the time allowed, E-Verify may provide a final nonconfirmation to the employer.

Note: If an Employer experiences technical problems, or has a policy question, the employer should contact E-Verify at 1-888-464-4218.

D. RESPONSIBILITIES OF DHS

1. DHS agrees to provide the Employer with selected data from DHS databases to enable the Employer to conduct, to the extent authorized by this MOU:

a. Automated verification checks on alien employees by electronic means, and

Company ID Number:

- b. Photo verification checks (when available) on employees.
2. DHS agrees to assist the Employer with operational problems associated with the Employer's participation in E-Verify. DHS agrees to provide the Employer names, titles, addresses, and telephone numbers of DHS representatives to be contacted during the E-Verify process.
 3. DHS agrees to provide to the Employer with access to E-Verify training materials as well as an E-Verify User Manual that contain instructions on E-Verify policies, procedures, and requirements for both SSA and DHS, including restrictions on the use of E-Verify.
 4. DHS agrees to train Employers on all important changes made to E-Verify through the use of mandatory refresher tutorials and updates to the E-Verify User Manual. Even without changes to E-Verify, DHS reserves the right to require employers to take mandatory refresher tutorials.
 5. DHS agrees to provide to the Employer a notice, which indicates the Employer's participation in E-Verify. DHS also agrees to provide to the Employer anti-discrimination notices issued by the Office of Special Counsel for Immigration-Related Unfair Employment Practices (OSC), Civil Rights Division, U.S. Department of Justice.
 6. DHS agrees to issue each of the Employer's E-Verify users a unique user identification number and password that permits them to log in to E-Verify.
 7. DHS agrees to safeguard the information the Employer provides, and to limit access to such information to individuals responsible for the verification process, for evaluation of E-Verify, or to such other persons or entities as may be authorized by applicable law. Information will be used only to verify the accuracy of Social Security numbers and employment eligibility, to enforce the INA and Federal criminal laws, and to administer Federal contracting requirements.
 8. DHS agrees to provide a means of automated verification that provides (in conjunction with SSA verification procedures) confirmation or tentative nonconfirmation of employees' employment eligibility within three Federal Government work days of the initial inquiry.
 9. DHS agrees to provide a means of secondary verification (including updating DHS records) for employees who contest DHS tentative nonconfirmations and photo mismatch tentative nonconfirmations. This provides final confirmation or nonconfirmation of the employees' employment eligibility within 10 Federal Government work days of the date of referral to DHS, unless DHS determines that more than 10 days may be necessary. In such cases, DHS will provide additional verification instructions.

ARTICLE III

REFERRAL OF INDIVIDUALS TO SSA AND DHS

A. REFERRAL TO SSA

1. If the Employer receives a tentative nonconfirmation issued by SSA, the Employer must print the notice as directed by E-Verify. The Employer must promptly notify employees in private of the finding and provide them with the notice and letter containing information specific to the employee's E-Verify

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case. The Employer also agrees to provide both the English and the translated notice and letter for employees with limited English proficiency to employees. The Employer agrees to provide written referral instructions to employees and instruct affected employees to bring the English copy of the letter to the SSA. The Employer must allow employees to contest the finding, and not take adverse action against employees if they choose to contest the finding, while their case is still pending.

2. The Employer agrees to obtain the employee's response about whether he or she will contest the tentative nonconfirmation as soon as possible after the Employer receives the tentative nonconfirmation. Only the employee may determine whether he or she will contest the tentative nonconfirmation.

3. After a tentative nonconfirmation, the Employer will refer employees to SSA field offices only as directed by E-Verify. The Employer must record the case verification number, review the employee information submitted to E-Verify to identify any errors, and find out whether the employee contests the tentative nonconfirmation. The Employer will transmit the Social Security number, or any other corrected employee information that SSA requests, to SSA for verification again if this review indicates a need to do so.

4. The Employer will instruct the employee to visit an SSA office within eight Federal Government work days. SSA will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.

5. While waiting for case results, the Employer agrees to check the E-Verify system regularly for case updates.

6. The Employer agrees not to ask the employee to obtain a printout from the Social Security Administration number database (the Numident) or other written verification of the SSN from the SSA.

B. REFERRAL TO DHS

1. If the Employer receives a tentative nonconfirmation issued by DHS, the Employer must promptly notify employees in private of the finding and provide them with the notice and letter containing information specific to the employee's E-Verify case. The Employer also agrees to provide both the English and the translated notice and letter for employees with limited English proficiency to employees. The Employer must allow employees to contest the finding, and not take adverse action against employees if they choose to contest the finding, while their case is still pending.

2. The Employer agrees to obtain the employee's response about whether he or she will contest the tentative nonconfirmation as soon as possible after the Employer receives the tentative nonconfirmation. Only the employee may determine whether he or she will contest the tentative nonconfirmation.

3. The Employer agrees to refer individuals to DHS only when the employee chooses to contest a tentative nonconfirmation.

4. If the employee contests a tentative nonconfirmation issued by DHS, the Employer will instruct the

Company ID Number:

employee to contact DHS through its toll-free hotline (as found on the referral letter) within eight Federal Government work days.

5. If the Employer finds a photo mismatch, the Employer must provide the photo mismatch tentative nonconfirmation notice and follow the instructions outlined in paragraph 1 of this section for tentative nonconfirmations, generally.

6. The Employer agrees that if an employee contests a tentative nonconfirmation based upon a photo mismatch, the Employer will send a copy of the employee's Form I-551, Form I-766, U.S. Passport, or passport card to DHS for review by:

- a. Scanning and uploading the document, or
- b. Sending a photocopy of the document by express mail (furnished and paid for by the employer).

7. The Employer understands that if it cannot determine whether there is a photo match/mismatch, the Employer must forward the employee's documentation to DHS as described in the preceding paragraph. The Employer agrees to resolve the case as specified by the DHS representative who will determine the photo match or mismatch.

8. DHS will electronically transmit the result of the referral to the Employer within 10 Federal Government work days of the referral unless it determines that more than 10 days is necessary.

9. While waiting for case results, the Employer agrees to check the E-Verify system regularly for case updates.

ARTICLE IV SERVICE PROVISIONS

A. NO SERVICE FEES

1. SSA and DHS will not charge the Employer for verification services performed under this MOU. The Employer is responsible for providing equipment needed to make inquiries. To access E-Verify, an Employer will need a personal computer with Internet access.

ARTICLE V MODIFICATION AND TERMINATION

A. MODIFICATION

1. This MOU is effective upon the signature of all parties and shall continue in effect for as long as the SSA and DHS operates the E-Verify program unless modified in writing by the mutual consent of all parties.

2. Any and all E-Verify system enhancements by DHS or SSA, including but not limited to E-Verify checking against additional data sources and instituting new verification policies or procedures, will be covered under this MOU and will not cause the need for a supplemental MOU that outlines these changes.

Company ID Number:

B. TERMINATION

1. The Employer may terminate this MOU and its participation in E-Verify at any time upon 30 days prior written notice to the other parties.
2. Notwithstanding Article V, part A of this MOU, DHS may terminate this MOU, and thereby the Employer's participation in E-Verify, with or without notice at any time if deemed necessary because of the requirements of law or policy, or upon a determination by SSA or DHS that there has been a breach of system integrity or security by the Employer, or a failure on the part of the Employer to comply with established E-Verify procedures and/or legal requirements. The Employer understands that if it is a Federal contractor, termination of this MOU by any party for any reason may negatively affect the performance of its contractual responsibilities. Similarly, the Employer understands that if it is in a state where E-Verify is mandatory, termination of this by any party MOU may negatively affect the Employer's business.
3. An Employer that is a Federal contractor may terminate this MOU when the Federal contract that requires its participation in E-Verify is terminated or completed. In such cases, the Federal contractor must provide written notice to DHS. If an Employer that is a Federal contractor fails to provide such notice, then that Employer will remain an E-Verify participant and will remain bound by the terms of this MOU that apply to non-Federal contractor participants, and will be required to use the E-Verify procedures to verify the employment eligibility of all newly hired employees.
4. The Employer agrees that E-Verify is not liable for any losses, financial or otherwise, if the Employer is terminated from E-Verify.

ARTICLE VI PARTIES

- A. Some or all SSA and DHS responsibilities under this MOU may be performed by contractor(s), and SSA and DHS may adjust verification responsibilities between each other as necessary. By separate agreement with DHS, SSA has agreed to perform its responsibilities as described in this MOU.
- B. Nothing in this MOU is intended, or should be construed, to create any right or benefit, substantive or procedural, enforceable at law by any third party against the United States, its agencies, officers, or employees, or against the Employer, its agents, officers, or employees.
- C. The Employer may not assign, directly or indirectly, whether by operation of law, change of control or merger, all or any part of its rights or obligations under this MOU without the prior written consent of DHS, which consent shall not be unreasonably withheld or delayed. Any attempt to sublicense, assign, or transfer any of the rights, duties, or obligations herein is void.
- D. Each party shall be solely responsible for defending any claim or action against it arising out of or related to E-Verify or this MOU, whether civil or criminal, and for any liability wherefrom, including (but not limited to) any dispute between the Employer and any other person or entity regarding the applicability of Section 403(d) of IIRIRA to any action taken or allegedly taken by the Employer.
- E. The Employer understands that its participation in E-Verify is not confidential information and may be disclosed as authorized or required by law and DHS or SSA policy, including but not limited to,

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Congressional oversight, E-Verify publicity and media inquiries, determinations of compliance with Federal contractual requirements, and responses to inquiries under the Freedom of Information Act (FOIA).

F. The individuals whose signatures appear below represent that they are authorized to enter into this MOU on behalf of the Employer and DHS respectively. The Employer understands that any inaccurate statement, representation, data or other information provided to DHS may subject the Employer, its subcontractors, its employees, or its representatives to: (1) prosecution for false statements pursuant to 18 U.S.C. 1001 and/or; (2) immediate termination of its MOU and/or; (3) possible debarment or suspension.

G. The foregoing constitutes the full agreement on this subject between DHS and the Employer.

To be accepted as an E-Verify participant, you should only sign the Employer's Section of the signature page. If you have any questions, contact E-Verify at 1-888-454-4218.

NOT FOR BIDDING

Company ID Number:

Approved by:

Employer	
Name (Please Type or Print)	Title
Signature	Date
Department of Homeland Security – Verification Division	
Name (Please Type or Print)	Title
Signature	Date

NOT FOR BIDDING

Company ID Number:

Information Required for the E-Verify Program	
Information relating to your Company:	
Company Name	
Company Facility Address	
Company Alternate Address	
County or Parish	
Employer Identification Number	
North American Industry Classification Systems Code	
Parent Company	
Number of Employees	
Number of Sites Verified for	

NOT FOR BIDDING

Company ID Number:

Information relating to the Program Administrator(s) for your Company on policy questions or operational problems:

NOT FOR BIDDING



Company ID Number:

NOT FOR BIDDING

NOT FOR BIDDING

State of Alabama)
County of Baldwin)

CERTIFICATE OF COMPLIANCE WITH THE BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (ACT 2011-535, as amended by ACT 2012-491)

DATE: _____

RE Contract/Grant/Incentive (describe by number or subject):

New Sewer Force Main Canal Road to CR-12; SIP23-OBSU GMC Project Number: CMOB190340 by and between

_____ (Contractor/Grantee) and
City of Orange Beach (State Agency, Department or Public Entity)

The undersigned hereby certifies to the State of Alabama as follows:

1. The undersigned holds the position of _____ with the Contractor/Grantee named above, and is authorized to provide representations set out in this Certificate as the official and binding act of that entity, and has knowledge of the provisions of THE BEASON-HAMMON ALABAMA TAXPAYER AND CITIZEN PROTECTION ACT (ACT 2011-535 of the Alabama Legislature, as amended by ACT 2012-491) which is described herein as "the Act."
2. Using the following definitions from Section 3 of the Act, select and initial either (a) or (b), below, to describe the Contractor/Grantee's business structure.

BUSINESS ENTITY. Any person or group of persons employing one or more person performing or engaging in any activity, enterprise, profession, or occupation for gain, benefit, advantage, or livelihood, whether for profit or not for profit.

a. Self-employed individuals, business entities filing articles of incorporation, partnerships, limited partnerships, limited liability companies, foreign corporations, foreign limited partnerships, and foreign limited liability companies authorized to transact business in this state, business trusts, and any business entity that registers with the Secretary of State.

b. Any business entity that possesses a business license, permit, certificate, approval, registration, charter, or similar form of authorization issued by the State, any business entity that is exempt by law from obtaining such a business license, and any business entity that is operating unlawfully without a business license.

EMPLOYER. Any person, firm, corporation, partnership, joint stock association, agent, manager, representative, foreman, or other person having control or custody of any employment, place of employment, or of any employee, including any person or entity employing any person for hire within the State of Alabama, including a public employer. This term shall not include the occupant of a household contracting with another person to perform casual domestic labor within the household.

_____ (a) The Contractor/Grantee is a business entity or employer as those terms are defined in Section 3 of the Act.

_____ (b) The Contractor/Grantee is not a business entity or employer as those terms are defined in Section 3 of the Act.

3. As of the date of this certificate, the Contractor/Grantee does not knowingly employ an unauthorized alien within the State of Alabama and hereafter it will not knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama;
4. The Contractor/Grantee is enrolled in E-Verify unless it is not eligible to enroll because of the rules of that program or other factors beyond its control.

Certified this _____ day of _____ 20_____.

Name of Contractor/Grantee/Recipient

By: _____

Its _____

The above Certification was signed in my presence by the person whose name appears above, on

this _____ day of _____ 20_____.

WITNESS: _____

Printed Name of Witness

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INSTRUCTIONS TO BIDDERS

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ARTICLE 1 – DEFINED TERMS

1.01 Terms used in these Instructions to Bidders have the meanings indicated in the General Conditions and Supplementary Conditions. Additional terms used in these Instructions to Bidders have the meanings indicated below:

A. *Issuing Office* – The office from which the Bidding Documents are to be issued.

ARTICLE 2 – COPIES OF BIDDING DOCUMENTS

2.01 Complete sets of the Bidding Documents may be obtained from the Issuing Office in the number and format stated in the advertisement or invitation to bid.

2.02 Complete sets of Bidding Documents shall be used in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents.

2.03 Owner and Engineer, in making copies of Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids for the Work and do not authorize or confer a license for any other use.

ARTICLE 3 – QUALIFICATIONS OF BIDDERS

3.01 To demonstrate Bidder's qualifications to perform the Work, Bidder shall submit (a) written evidence establishing its qualifications such as financial data, previous experience, and present commitments, and (b) the following additional information:

A. Evidence of Bidder's authority to do business in the state where the Project is located.

B. Bidder's state or other contractor license number, if applicable.

C. Subcontractor and Supplier qualification information; coordinate with provisions of Article 12 of these Instructions, "Subcontractors, Suppliers, and Others."

3.02 A Bidder's failure to submit required qualification information may disqualify Bidder from receiving an award of the Contract.

3.03 No requirement in this Article 3 to submit information will prejudice the right of Owner to seek additional pertinent information regarding Bidder's qualifications.

3.04 Bidder is advised to carefully review those portions of the Bid Form requiring Bidder's representations and certifications.

ARTICLE 4 – SITE AND OTHER AREAS; EXISTING SITE CONDITIONS; EXAMINATION OF SITE; OWNER'S SAFETY PROGRAM; OTHER WORK AT THE SITE

4.01 *Site and Other Areas*

A. The Site is identified in the Bidding Documents. By definition, the Site includes rights-of-way, easements, and other lands furnished by Owner for the use of the Contractor. Any additional lands required for temporary construction facilities, construction equipment, or storage of materials and equipment, and any access needed for such additional lands, are to be obtained and paid for by Contractor.

4.02 *Existing Site Conditions*

A. Subsurface and Physical Conditions; Hazardous Environmental Conditions

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1. The Supplementary Conditions identify:
 - a. those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site.
 - b. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities).
 - c. reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site.
 - d. Technical Data contained in such reports and drawings.
2. Owner will make copies of reports and drawings referenced above available to any Bidder on request. These reports and drawings are not part of the Contract Documents, but the Technical Data contained therein upon whose accuracy Bidder is entitled to rely, as provided in the General Conditions, has been identified and established in the Supplementary Conditions. Bidder is responsible for any interpretation or conclusion Bidder draws from any Technical Data or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.
3. If the Supplementary Conditions do not identify Technical Data, the default definition of Technical Data set forth in Article 1 of the General Conditions will apply.

4.03 *Site Visit and Testing by Bidders*

- A. Bidder shall conduct the required Site visit during normal working hours, and shall not disturb any ongoing operations at the Site.
- B. Bidder is not required to conduct any subsurface testing, or exhaustive investigations of Site conditions.
- C. On request, and to the extent Owner has control over the Site, and schedule permitting, the Owner will provide Bidder access to the Site to conduct such additional examinations, investigations, explorations, tests, and studies as Bidder deems necessary for preparing and submitting a successful Bid. Owner will not have any obligation to grant such access if doing so is not practical because of existing operations, security or safety concerns, or restraints on Owner's authority regarding the Site.
- D. Bidder shall comply with all applicable Laws and Regulations regarding excavation and location of utilities, obtain all permits, and comply with all terms and conditions established by Owner or by property owners or other entities controlling the Site with respect to schedule, access, existing operations, security, liability insurance, and applicable safety programs.
- E. Bidder shall fill all holes and clean up and restore the Site to its former condition upon completion of such explorations, investigations, tests, and studies.

4.04 *Owner's Safety Program*

- A. Site visits and work at the Site may be governed by an Owner safety program. As the General Conditions indicate, if an Owner safety program exists, it will be noted in the Supplementary Conditions.

4.05 *Other Work at the Site*

- A. Reference is made to Article 8 of the Supplementary Conditions for the identification of the general nature of other work of which Owner is aware (if any) that is to be performed at

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the Site by Owner or others (such as utilities and other prime contractors) and relates to the Work contemplated by these Bidding Documents. If Owner is party to a written contract for such other work, then on request, Owner will provide to each Bidder access to examine such contracts (other than portions thereof related to price and other confidential matters), if any.

ARTICLE 5 – BIDDER’S REPRESENTATIONS

5.01 It is the responsibility of each Bidder before submitting a Bid to:

- A. examine and carefully study the Bidding Documents, and any data and reference items identified in the Bidding Documents;
- B. visit the Site, conduct a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfy itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work;
- C. become familiar with and satisfy itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work;
- D. ~~carefully study all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings;~~
- E. consider the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder’s safety precautions and programs;
- F. agree, based on the information and observations referred to in the preceding paragraph, that at the time of submitting its Bid no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents;
- G. become aware of the general nature of the work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents;
- H. promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bidding Documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder;
- I. determine that the Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work; and
- J. agree that the submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, that without

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exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 6 – PRE-BID CONFERENCE

6.01 A mandatory pre-Bid conference will be held at the time and location stated in the invitation or advertisement to bid. Representatives of Owner and Engineer will be present to discuss the Project. Bidders are required to attend and participate in the conference. Engineer will transmit to all prospective Bidders of record such Addenda as Engineer considers necessary in response to questions arising at the conference. Oral statements may not be relied upon and will not be binding or legally effective.

ARTICLE 7 – INTERPRETATIONS AND ADDENDA

7.01 All questions about the meaning or intent of the Bidding Documents are to be submitted to Engineer in writing. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda delivered to all parties recorded as having received the Bidding Documents. Questions received less than seven days prior to the date for opening of Bids may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.

7.02 Addenda may be issued to clarify, correct, supplement, or change the Bidding Documents.

ARTICLE 8 – BID SECURITY

8.01 A Bid must be accompanied by Bid security made payable to Owner in an amount equivalent to 5% of the bid price (determined by adding the base bid and all alternates) and in the form of a certified check, bank money order, or a Bid bond (on the form included in the Bidding Documents) issued by a surety meeting the requirements of Paragraphs 6.01 and 6.02 of the General Conditions. The Bid Bond shall remain valid for ninety (90) days after bid opening.

8.02 The Bid security of the apparent Successful Bidder will be retained until Owner awards the contract to such Bidder and such Bidder has executed the Contract Documents, furnished the required contract security, and met the other conditions of the Notice of Award, whereupon the Bid security will be released. If the Successful Bidder fails to execute and deliver the Contract Documents and furnish the required contract security within 15 days after the Notice of Award, Owner may consider Bidder to be in default, annul the Notice of Award, and the Bid security of that Bidder will be forfeited. Such forfeiture shall be Owner's exclusive remedy if Bidder defaults.

8.03 The Bid security of other Bidders that Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of seven days after the Effective Date of the Contract or 61 days after the Bid opening, whereupon Bid security furnished by such Bidders will be released.

8.04 Bid security of other Bidders that Owner believes do not have a reasonable chance of receiving the award will be released within seven days after the Bid opening.

ARTICLE 9 – CONTRACT TIMES

9.01 The number of days within which, or the dates by which, the Work is to be substantially completed and ready for final payment are set forth in the Agreement.

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ARTICLE 10 – LIQUIDATED DAMAGES

- 10.01 Provisions for liquidated damages, if any, for failure to timely attain a Milestone, Substantial Completion, or completion of the Work in readiness for final payment, are set forth in the Agreement.

ARTICLE 11 – SUBSTITUTE AND “OR-EQUAL” ITEMS

- 11.01 The Contract for the Work, as awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration during the bidding and Contract award process of possible substitute or “or-equal” items. In cases in which the Contract allows the Contractor to request that Engineer authorize the use of a substitute or “or-equal” item of material or equipment, application for such acceptance may not be made to and will not be considered by Engineer until after the Effective Date of the Contract.
- 11.02 All prices that Bidder sets forth in its Bid shall be based on the presumption that the Contractor will furnish the materials and equipment specified or described in the Bidding Documents, as supplemented by Addenda. Any assumptions regarding the possibility of post-Bid approvals of “or-equal” or substitution requests are made at Bidder’s sole risk.

ARTICLE 12 – SUBCONTRACTORS, SUPPLIERS, AND OTHERS

- 12.01 A Bidder shall be prepared to retain specific Subcontractors, Suppliers, or other individuals or entities for the performance of the Work if required by the Bidding Documents (most commonly in the Specifications) to do so. If a prospective Bidder objects to retaining any such Subcontractor, Supplier, or other individual or entity, and the concern is not relieved by an Addendum, then the prospective Bidder should refrain from submitting a Bid.
- 12.02 Subsequent to the submittal of the Bid, Owner may not require the Successful Bidder or Contractor to retain any Subcontractor, Supplier, or other individual or entity against which Contractor has reasonable objection.
- 12.03 The apparent Successful Bidder, and any other Bidder so requested, shall within five days after Bid opening, submit to Owner a list of the Subcontractors or Suppliers proposed for the following portions of the Work:
- If requested by Owner, such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, or other individual or entity. If Owner or Engineer, after due investigation, has reasonable objection to any proposed Subcontractor, Supplier, individual, or entity, Owner may, before the Notice of Award is given, request apparent Successful Bidder to submit an acceptable substitute, in which case apparent Successful Bidder shall submit a substitute, Bidder’s Bid price will be increased (or decreased) by the difference in cost occasioned by such substitution, and Owner may consider such price adjustment in evaluating Bids and making the Contract award.
- 12.04 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposes to use acceptable Subcontractors, Suppliers, or other individuals or entities. Declining to make requested substitutions will constitute grounds for forfeiture of the Bid security of any Bidder. Any Subcontractor, Supplier, individual, or entity so listed and against which Owner or Engineer makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to Owner and Engineer subject to subsequent revocation of such acceptance as provided in Paragraph 7.06 of the General Conditions.

NOT FOR BIDDING

ARTICLE 13 – PREPARATION OF BID

- 13.01 The Bid Form is included with the Bidding Documents.
- A. All blanks on the Bid Form shall be completed in ink and the Bid Form signed in ink. Erasures or alterations shall be initialed in ink by the person signing the Bid Form. A Bid price shall be indicated for each section, Bid item, alternate, adjustment unit price item, and unit price item listed therein.
 - B. If the Bid Form expressly indicates that submitting pricing on a specific alternate item is optional, and Bidder elects to not furnish pricing for such optional alternate item, then Bidder may enter the words “No Bid” or “Not Applicable.”
- 13.02 A Bid by a corporation shall be executed in the corporate name by a corporate officer (whose title must appear under the signature), accompanied by evidence of authority to sign. The corporate address and state of incorporation shall be shown.
- 13.03 A Bid by a limited liability company shall be executed in the name of the firm by a member or other authorized person and accompanied by evidence of authority to sign. The state of formation of the firm and the official address of the firm shall be shown.
- 13.04 A Bid by an individual shall show the Bidder’s name and official address.
- 13.05 A Bid by a joint venture shall be executed by an authorized representative of each joint venturer in the manner indicated on the Bid Form. The official address of the joint venture shall be shown.
- 13.06 All names shall be printed in ink below the signatures.
- 13.07 The Bid shall contain an acknowledgment of receipt of all Addenda, the numbers of which shall be filled in on the Bid Form.
- 13.08 Postal and e-mail addresses and telephone number for communications regarding the Bid shall be shown.
- 13.09 The Bid shall contain evidence of Bidder’s authority and qualification to do business in the state where the Project is located, or Bidder shall covenant in writing to obtain such authority and qualification prior to award of the Contract and attach such covenant to the Bid. Bidder’s state contractor license number, if any, shall also be shown on the Bid Form.

ARTICLE 14 – BASIS OF BID

- 14.01 *Unit Price*
- A. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the unit price section of the Bid Form.
 - B. The “Bid Price” (sometimes referred to as the extended price) for each unit price Bid item will be the product of the “Estimated Quantity” (which Owner or its representative has set forth in the Bid Form) for the item and the corresponding “Bid Unit Price” offered by the Bidder. The total of all unit price Bid items will be the sum of these “Bid Prices”; such total will be used by Owner for Bid comparison purposes. The final quantities and Contract Price will be determined in accordance with Paragraph 13.03 of the General Conditions.
 - C. Discrepancies between the multiplication of units of Work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

NOT FOR BIDDING

ARTICLE 15 – SUBMITTAL OF BID

- 15.01 The Bidder is required to submit a bound copy of the Bidding Documents intact with the Bid. The Bid Form is to be completed and submitted with the Bid security and the other documents required to be submitted under the terms of Article 7 of the Bid Form.
- 15.02 A Bid shall be received no later than the date and time prescribed and at the place indicated in the advertisement or invitation to bid and shall be enclosed in a plainly marked package with the Project title (and, if applicable, the designated portion of the Project for which the Bid is submitted), the name and address of Bidder, and shall be accompanied by the Bid security and other required documents. If a Bid is sent by mail or other delivery system, the sealed envelope containing the Bid shall be enclosed in a separate package plainly marked on the outside with the notation "BID ENCLOSED." A mailed Bid shall be addressed to **City of Orange Beach**.
- A. All Bids must be submitted in a sealed envelope bearing on the outside of the envelope the name of the Bidder, Bidder's license and DUNS number. Envelopes containing bids must be addressed as follows, and delivered to: Honorable Tony Kennon, Mayor, City of Orange Beach, 4099 Orange Beach Blvd., Orange Beach, AL 36561: "New Force Main Canal Road to CR-12 #S1P23-OBSU, GMC PROJECT NO. CMOB190340."
- B. Bids must include DUNS number or Data Universal Numbering System, which is a unique, nonindicative 9-digit identifier issue and maintained by D&B that verifies the existence of a business entity globally. After you receive a DUNS number, your business is listed in D&B's database. To verify if you have a DUNS number, you can visit <https://www.dnb.com/duns-number.html> or to obtain a DUNS number visit <https://fedgov.dnb.com/webform/>. There is no fee and should be completely free.
- C. Bidders must be registered at <https://sam.gov/SAM/>.
- 15.03 Bids received after the date and time prescribed for the opening of bids, or not submitted at the correct location or in the designated manner, will not be accepted and will be returned to the Bidder unopened.

ARTICLE 16 – MODIFICATION AND WITHDRAWAL OF BID

- 16.01 A Bid may be withdrawn by an appropriate document duly executed in the same manner that a Bid must be executed and delivered to the place where Bids are to be submitted prior to the date and time for the opening of Bids. Upon receipt of such notice, the unopened Bid will be returned to the Bidder.
- 16.02 If a Bidder wishes to modify its Bid prior to Bid opening, Bidder must withdraw its initial Bid in the manner specified in Paragraph 16.01 and submit a new Bid prior to the date and time for the opening of Bids.
- 16.03 If within 24 hours after Bids are opened any Bidder files a duly signed written notice with Owner and promptly thereafter demonstrates to the reasonable satisfaction of Owner that there was a material and substantial mistake in the preparation of its Bid, that Bidder may withdraw its Bid, and the Bid security will be returned. Thereafter, if the Work is rebid, that Bidder will be disqualified from further bidding on the Work.

NOT FOR BIDDING

ARTICLE 17 – OPENING OF BIDS

- 17.01 Bids will be opened at the time and place indicated in the advertisement or invitation to bid and, unless obviously non-responsive, read aloud publicly. An abstract of the amounts of the base Bids and major alternates, if any, will be made available to Bidders after the opening of Bids.

ARTICLE 18 – BIDS TO REMAIN SUBJECT TO ACCEPTANCE

- 18.01 All Bids will remain subject to acceptance for the period of time stated in the Bid Form, but Owner may, in its sole discretion, release any Bid and return the Bid security prior to the end of this period.

ARTICLE 19 – EVALUATION OF BIDS AND AWARD OF CONTRACT

- 19.01 Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner will reject the Bid of any Bidder that Owner finds, after reasonable inquiry and evaluation, to not be responsible. If Bidder purports to add terms or conditions to its Bid, takes exception to any provision of the Bidding Documents, or attempts to alter the contents of the Contract Documents for purposes of the Bid, then the Owner will reject the Bid as nonresponsive; provided that Owner also reserves the right to waive all minor informalities not involving price, time, or changes in the Work.
- 19.02 If Owner awards the contract for the Work, such award shall be to the responsible Bidder submitting the lowest responsive Total Base Bid.
- 19.03 Evaluation of Bids
- A. In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternate unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.
 - B. In the comparison of Bids, alternates will be applied in the same order of priority as listed in the Bid Form. To determine the Bid prices for purposes of comparison, Owner shall announce to all bidders a "Base Bid plus alternates" budget after receiving all Bids, but prior to opening them. For comparison purposes alternates will be accepted, following the order of priority established in the Bid Form, until doing so would cause the budget to be exceeded. After determination of the Successful Bidder based on this comparative process and on the responsiveness, responsibility, and other factors set forth in these Instructions, the award may be made to said Successful Bidder on its base Bid and any combination of its additive alternate Bids for which Owner determines funds will be available at the time of award.
- 19.04 In evaluating whether a Bidder is responsible, Owner will consider the qualifications of the Bidder and may consider the qualifications and experience of Subcontractors and Suppliers proposed for those portions of the Work for which the identity of Subcontractors and Suppliers must be submitted as provided in the Bidding Documents.
- 19.05 Owner may conduct such investigations as Owner deems necessary to establish the responsibility, qualifications, and financial ability of Bidders and any proposed Subcontractors or Suppliers.

NOT FOR BIDDING

ARTICLE 20 – BONDS AND INSURANCE

20.01 Article 6 of the General Conditions, as may be modified by the Supplementary Conditions, sets forth Owner’s requirements as to performance and payment bonds and insurance. When the Successful Bidder delivers the Agreement (executed by Successful Bidder) to Owner, it shall be accompanied by required bonds and insurance documentation. See Supplementary Conditions Article 6.01.

ARTICLE 21 – SIGNING OF AGREEMENT

21.01 When Owner issues a Notice of Award to the Successful Bidder, it shall be accompanied by the unexecuted counterparts of the Agreement along with the other Contract Documents as identified in the Agreement. Within 15 days thereafter, Successful Bidder shall execute and deliver the required number of counterparts of the Agreement (and any bonds and insurance documentation required to be delivered by the Contract Documents) to Owner. Within ten days thereafter, Owner shall deliver one fully executed counterpart of the Agreement to Successful Bidder, together with printed and electronic copies of the Contract Documents as stated in Paragraph 2.02 of the General Conditions.

ARTICLE 22 – SALES AND USE TAXES

22.01 Owner is exempt from Alabama state sales and use taxes on materials and equipment to be incorporated in the Work (Act#2018-234). Said taxes shall not be included in the Bid. Refer to Paragraph SC-7.09 of the Supplementary Conditions for additional information.

ARTICLE 23 – WAGE RATE REQUIREMENTS - DAVIS BACON AND RELATED ACTS:

23.01 The Davis-Bacon Act and Related Acts are applicable to construction activities under this Contract. The prime contractor, all sub-contractors, and all lower-tier sub-contractors must comply with the Davis-Bacon Act (40 USC. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). The Contract Work Hours and Safety Standards Act (29 CFR §5.5(b)) applies to this contract and the Copeland “Anti-Kickback” Act (40 USC. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”) also applies to all work performed.

Detailed information regarding compliance with the aforementioned labor standards is included in the ADCNR Required Attachments Section of the Contract Documents.

See Section 00942 of the Contract Documents for the applicable prevailing wage determination issued by the Department of Labor. The decision to award a contract or subcontract is conditioned upon the acceptance of this wage determination, which may be superseded by addendum.

ARTICLE 24 – MINORITY BUSINESS ENTERPRISE AND WOMEN’S BUSINESS ENTERPRISE (MBE/WBE) REQUIREMENTS:

Documentation of compliance with the MBE/WBE requirements is a matter of contractor responsibility. When subcontracting, the contractor must submit documentation of good faith efforts to meet the project’s MBE/WBE requirements before contracted work can commence; MBE/WBE requirements and required documentation are outlined in ADCNR Required Attachments Section of the Contract Documents. Failure on the part of the contractor to submit proper documentation may cause the Owner to not execute or to terminate the contract.

NOT FOR BIDDING

BID FORM

NEW SEWER FORCE MAIN CANAL ROAD TO CR-12

FOR

THE CITY OF ORANGE BEACH

ORANGE BEACH, ALABAMA

RESTORE PROJECT NO. S1P23-OBSU

GMC PROJECT NO. CMOB190340

NOT FOR BIDDING

NOT FOR BIDDING

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NOT FOR BIDDING

NOT FOR BIDDING

ARTICLE 1 – BID RECIPIENT

1.01 This Bid is submitted to:

City of Orange Beach
4151 Orange Beach Blvd.
Orange Beach, AL 36561
Attn: Tony Kennon, Mayor

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2 – BIDDER’S ACKNOWLEDGEMENTS

2.01 Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

ARTICLE 3 – BIDDER’S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents that:

A. Bidder has examined and carefully studied the Bidding Documents, and any data and reference items identified in the Bidding Documents, and hereby acknowledges receipt of the following Addenda:

<u>Addendum No.</u>	<u>Addendum, Date</u>
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and satisfied itself as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Bidder is familiar with and has satisfied itself as to all Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Bidder has carefully studied all: (1) ~~reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.~~

NOT FOR BIDDING

- E. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and any Site-related reports and drawings identified in the Bidding Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder; and (3) Bidder's safety precautions and programs.
- F. Bidder agrees, based on the information and observations referred to in the preceding paragraph, that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performance of the Work at the price bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.
- G. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.
- H. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and confirms that the written resolution thereof by Engineer is acceptable to Bidder.
- I. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance and furnishing of the Work.
- J. The submission of this Bid constitutes an incontrovertible representation by Bidder that Bidder has complied with every requirement of this Article, and that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

ARTICLE 4 – BIDDER'S CERTIFICATION

4.01 Bidder certifies that:

- A. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity, and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation;
- B. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid;
- C. Bidder has not solicited or induced any individual or entity to refrain from bidding; and
- D. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 4.01.D:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels; and

NOT FOR BIDDING

4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 5 – BASIS OF BID

5.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

BASE BID						
<u>Item</u>	<u>Qty.</u>	<u>Unit</u>	<u>Description</u>		<u>Unit Price</u>	<u>Total Price</u>
1	1	LS	Mobilization (Not to Exceed 3% of Total Bid)	\$	LS	\$
2	15,000	LF	12" C900, DR21 PVC Force Main			
3	40	LF	12" DI Force Main			
4	300	LF	12" RJDJ Force Main			
5	16,000	LF	14" C900, DR21 PVC Force Main			
6	400	LF	14" RJDJ Force Main			
7	2,500	LF	16" C900, DR21 PVC Force Main			
8	40	LF	16" DI Force Main			
9	80	LF	16" RJDJ Force Main			
10	1,500	LF	14" DR11 HDPE Force Main (Directional Drill Installation)			
11	2,500	LF	16" DR11 HDPE Force Main (Directional Drill Installation)			
12	2,850	LF	20" DR9 HDPE Force Main (Directional Drill Installation)			
13	100	LF	20" Welded Steel Casing (Jack & Bore Installation)			
14	260	LF	24" Welded Steel Casing (Jack & Bore Installation)			
15	40	LF	12" Uncased Bore			
16	20	LF	14" Uncased Bore			
17	20	LF	16" Uncased Bore			

NOT FOR BIDDING

18	1	EA	6" Gate Valve					
19	4	EA	12" Gate Valve					
20	2	EA	14" Gate Valve					
21	1	EA	16" Gate Valve					
22	9	EA	2" Combination ARV Assembly					
23	16	TON	Ductile Iron Fittings					
24	35	EA	12" Bell Restraint Harness					
25	80	EA	14" Bell Restraint Harness					
26	25	EA	16" Bell Restraint Harness					
27	4	EA	Concrete Deadman Anchor					
28	4	EA	Connect to Ex. 12" Force Main					
29	1	EA	Connect to Ex. 20" Force Main					
30	1	EA	Sewer Service Stubout					
31	8	EA	Sewer Service Transfer					
32	18	EA	Open Cut & Patch Gravel Drive					
33	1	EA	Remove & Replace Existing Sloped Headwall					
34	2	EA	Remove & Replace Existing Rip Rap Check Dams					
35	33,600	LF	Well Point Dewatering					
36	1	LS	Clearing & Grubbing		LS			
37	1	LS	Traffic Control Measures		LS			
38	1	LS	Erosion Control Measures		LS			
39	1	LS	Cleanup & Site Restoration		LS			
TOTAL BASE BID							\$	

NOT FOR BIDDING

Total number of calendar days to substantially complete the Work: 270 calendar days.

Liquidated Damages Rate (from Agreement): \$500.00/day.

Bonds required under Paragraph 6.01 of the General Conditions will be based on the Contract Price.

ARTICLE 6 – TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete within 270 calendar days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and will be completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within 300 calendar days after the date when the Contract Times commence to run.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7 – ATTACHMENTS TO THIS BID

7.01 The following documents are submitted with and made a condition of this Bid:

- A. Required Bid security;
- B. Evidence of authority to do business in the state of the project; or a written covenant to obtain such license within the time for acceptance of Bid;
- C. Contractor’s License No.: _____
- D. Contractor’s DUNS No.: _____
- E. Evidence of SAM.gov Registration

ARTICLE 8 – DEFINED TERMS

8.01 The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 9 – BID SUBMITTAL

BIDDER: *[Indicate correct name of bidding entity]*

By:

[Signature] _____

[Printed name] _____

(If Bidder is a corporation, a limited liability company, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest:

[Signature] _____

[Printed name] _____

NOT FOR BIDDING

Title:

Submittal Date:

Address for giving notices:

Telephone Number:

Fax Number:

Contact Name and e-mail address:

Bidder's License No.:

(where applicable)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

NOT FOR BIDDING

NOT FOR BIDDING

**ACCOUNTING OF SALES TAX
Attachment to Proposal Form**

To: City of Orange Beach Date: _____
(Awarding Authority)

NAME OF PROJECT S1P23-OBSU New Sewer Force Main Canal Road to CR-12 GMC Project No.
CMOB190340

SALES TAX ACCOUNTING

Pursuant to Act 2018-234, the Contractor accounts for the sales tax NOT included in the bid proposal form as follows:

ESTIMATED SALES TAX AMOUNT
BASE BID: _____

Failure to provide an accounting of sales tax shall render the bid non-responsive. Other than determining responsiveness, sales tax accounting shall not affect the bid pricing nor be considered in the determination of the lowest responsible and responsive bidder.

Legal Name of Bidder _____

Mailing Address _____

***By (Legal Signature)** _____

*Name (type or print) _____

(Seal)

*Title _____

Telephone Number _____

NOT FOR BIDDING

NOT FOR BIDDING

BID BOND

Any singular reference to Bidder, Surety, Owner or other party shall be considered plural where applicable.

BIDDER (*Name and Address*):

SURETY (*Name, and Address of Principal Place of Business*):

OWNER (*Name and Address*):

BID

Bid Due Date:

Description (*Project Name— Include Location*):

BOND

Bond Number:

Date:

Penal sum

(equivalent to 5%
of bid price)

(Words)

(Figures)

Surety and Bidder, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Bid Bond to be duly executed by an authorized officer, agent, or representative.

BIDDER

SURETY

(Seal)

(Seal)

Bidder's Name and Corporate Seal

Surety's Name and Corporate Seal

By:

Signature

By:

Signature (Attach Power of Attorney)

Print Name

Print Name

Title

Title

Attest:

Signature

Attest:

Signature

Title

Title

Note: Addresses are to be used for giving any required notice.

Provide execution by any additional parties, such as joint venturers, if necessary.

NOT FOR BIDDING

1. Bidder and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to pay to Owner upon default of Bidder the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Bidder's and Surety's liability. Recovery of such penal sum under the terms of this Bond shall be Owner's sole and exclusive remedy upon default of Bidder.
2. Default of Bidder shall occur upon the failure of Bidder to deliver within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents.
3. This obligation shall be null and void if:
 - 3.1 Owner accepts Bidder's Bid and Bidder delivers within the time required by the Bidding Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bidding Documents and any performance and payment bonds required by the Bidding Documents, or
 - 3.2 All Bids are rejected by Owner, or
 - 3.3 Owner fails to issue a Notice of Award to Bidder within the time specified in the Bidding Documents (or any extension thereof agreed to in writing by Bidder and, if applicable, executed to by Surety when required by Paragraph 5 hereof).
4. Payment under this Bond will be due and payable upon default of Bidder and within 90 calendar days after receipt by Bidder and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.
5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Bidder, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed 120 days from the Bid due date without Surety's written consent.
6. No suit or action shall be commenced under this Bond prior to 30 calendar days after the notice of default required in Paragraph 4 above is received by Bidder and Surety and in no case later than one year after the Bid due date.
7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.
8. Notices required hereunder shall be in writing and sent to Bidder and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.
9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.
10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.
11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

NOT FOR BIDDING

NOTICE OF AWARD

Date of Issuance:

Owner: City of Orange Beach

Owner's Contract No.: S1P23-OBSU

Engineer: Goodwyn, Mills & Cawood, Inc.

Engineer's Project No.: CMOB190340

Project:

Contract Name: New Sewer Force Main Canal Road to CR-12

Bidder:

Bidder's Address:

TO BIDDER:

You are notified that Owner has accepted your Bid dated [_____] for the above Contract, and that you are the Successful Bidder and are awarded a Contract for:

New Sewer Force Main Canal Road to CR-12 S1P23-OBSU

[describe Work, alternates, or sections of Work awarded]

The Contract Price of the awarded Contract is: \$ _____

[3] unexecuted counterparts of the Agreement accompany this Notice of Award

You must comply with the following conditions precedent within 15 days of the date of receipt of this Notice of Award:

1. Deliver to ENGINEER [3] counterparts of the Agreement, fully executed by Bidder.
2. Deliver with the executed Agreement(s) the Contract security *[e.g., performance and payment bonds]* and insurance documentation as specified in the Instructions to Bidders and General Conditions, Articles 2 and 6.

Failure to comply with these conditions within the time specified will entitle Owner to consider you in default, annul this Notice of Award, and declare your Bid security forfeited.

ENGINEER will return to you one fully executed counterpart of the Agreement, together with any additional copies of the Contract Documents as indicated in Paragraph 2.02 of the General Conditions.

Owner: CITY OF ORANGE BEACH

Authorized Signature

By: Tony Kennon

Title: Mayor

Contractor: _____

Authorized Signature

By: _____

Title: _____

NOT FOR BIDDING

AGREEMENT
BETWEEN OWNER AND CONTRACTOR
FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)

THIS AGREEMENT is by and between City of Orange Beach (“Owner”) and
_____ (“Contractor”).

Owner and Contractor hereby agree as follows:

ARTICLE 1 – WORK

Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows: Project consists of installation of approximately 14,700 linear feet of 12 inch force main; 16,400 linear feet of 14 inch force main; 4,000 linear feet of 16 inch force main; 1,440 linear feet of 16 inch HDD force main; 2,040 linear feet of 18 inch HDD force main; 1,360 linear feet of 20 inch HDD force main; and related appurtenances.

ARTICLE 2 – THE PROJECT

2.01 The Project, of which the Work under the Contract Documents is a part, is generally described as follows: **New Sewer Force Main Canal Road to CR 12 SMC Project No. CMOB190340**

ARTICLE 3 – ENGINEER

3.01 The Project has been designed by Goodwyn, Mills & Cawood, Inc.

3.02 The Owner has retained Goodwyn, Mills & Cawood, Inc. (“Engineer”) to act as Owner’s representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 – CONTRACT TIMES

4.01 *Time of the Essence*

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 *Contract Times: Days*

A. The Work will be substantially completed within **270** days after the date when the Contract Times commence to run as provided in Paragraph 4.01 of the General Conditions, and completed and ready for final payment in accordance with Paragraph 15.06 of the General Conditions within **300** days after the date when the Contract Times commence to run.

4.03 *Liquidated Damages*

A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial and other losses if the Work is not completed and Milestones not achieved within the times specified in Paragraph 4.02 above, plus any extensions thereof allowed in accordance with the Contract. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the

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actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty):

1. Substantial Completion: Contractor shall pay Owner \$ 500.00 for each day that expires after the time (as duly adjusted pursuant to the Contract) specified in Paragraph 4.02.A above for Substantial Completion until the Work is substantially complete.
2. Completion of Remaining Work: After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time (as duly adjusted pursuant to the Contract) for completion and readiness for final payment, Contractor shall pay Owner \$ 500.00 for each day that expires after such time until the Work is completed and ready for final payment.
3. Liquidated damages for failing to timely attain Substantial Completion and final completion are not additive and will not be imposed concurrently.

ARTICLE 5 – CONTRACT PRICE

5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents the amounts that follow, subject to adjustment under the Contract:

- A. For all Work, at the prices stated in Contractor's Bid, attached hereto as an exhibit.

(_____ and /100 Dollars, \$ _____)

ARTICLE 6 – PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

- A. Contractor shall submit Applications for Payment in accordance with Article 15 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment on or about the 25th day of each month during performance of the Work as provided in Paragraph 6.02.A.1 below, provided that such Applications for Payment have been submitted in a timely manner and otherwise meet the requirements of the Contract. All such payments will be measured by the Schedule of Values established as provided in the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no Schedule of Values, as provided elsewhere in the Contract.

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract
 - a. 95 percent of Work completed (with the balance being retainage). If the Work has been 50 percent completed as determined by Engineer, and if the character and progress of the Work have been satisfactory to Owner and Engineer, then as long as the character and progress of the Work remain satisfactory to Owner and Engineer, there will be no additional retainage; and

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- b. 95 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).
- B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts set off by Owner pursuant to Paragraph 15.01.E of the General Conditions, and less 100 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the punch list of items to be completed or corrected prior to final payment.

6.03 *Final Payment*

- A. Upon final completion and acceptance of the Work in accordance with Paragraph 15.06 of the General Conditions, Owner shall pay the remainder of the Contract Price as recommended by Engineer as provided in said Paragraph 15.06.

ARTICLE 7 – INTEREST

- 7.01 As per HB24, Act #2014-404, all monies not paid when due to the Contractor shall be entitled to interest from awarding authority at the rate assessed for underpayment of taxes under Section 40-1-44(a), Code of Alabama, on the unpaid balance due.

ARTICLE 8 – CONTRACTOR'S REPRESENTATIONS

- 8.01 In order to induce Owner to enter into this Contract, Contractor makes the following representations:
 - A. Contractor has examined and carefully studied the Contract Documents, and any data and reference items identified in the Contract Documents.
 - B. Contractor has visited the Site, conducted a thorough, alert visual examination of the Site and adjacent areas, and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
 - C. Contractor is familiar with and is satisfied as to all Laws and Regulations that may affect cost, progress, and performance of the Work.
 - D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or adjacent to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings, and (2) reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, especially with respect to Technical Data in such reports and drawings.
 - E. Contractor has considered the information known to Contractor itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor; and (3) Contractor's safety precautions and programs.
 - F. Based on the information and observations referred to in the preceding paragraph, Contractor agrees that no further examinations, investigations, explorations, tests, studies,

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or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

- G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- H. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.
- J. Contractor's entry into this Contract constitutes an incontrovertible representation by Contractor that without exception all prices in the Agreement are premised upon performing and furnishing the Work required by the Contract Documents.

ARTICLE 9 – CONTRACT DOCUMENTS

9.01 Contents

- A. The Contract Documents consist of the following:
 - 1. This Agreement (pages 00520-1 to 00520-6, inclusive).
 - 2. Performance bond (pages 00610-1 to 00610-3, inclusive).
 - 3. Payment bond (pages 00615-1 to 00615-3, inclusive).
 - 4. Other bonds.
 - a. Bid Bond (pages 00430-1 to 00430-2, inclusive).
 - 5. General Conditions (pages 00700-1 to 00700-65, inclusive).
 - 6. Supplementary Conditions – Section 00750 (5 pages) and Section 00800 (8 pages).
 - 7. Specifications as listed in the table of contents of the Project Manual.
 - 8. Drawings consisting of 28 sheets with each sheet bearing the following general title: New Sewer Force Main Canal Road to CR-12 for The City of Orange Beach, GMC Project No. CMOB190340.
 - 9. Addenda (numbers ___ to ___, inclusive).
 - 10. Exhibits to this Agreement (enumerated as follows):
 - a. Contractor's Bid (pages 00410-1 to 00410-5, inclusive).
 - 11. The following which may be delivered or issued on or after the Effective Date of the Contract and are not attached hereto:
 - a. Work Change Directives.
 - b. Change Orders.
 - c. Field Orders.
- B. The documents listed in Paragraph 9.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 9.

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- D. The Contract Documents may only be amended, modified, or supplemented as provided in the General Conditions.

ARTICLE 10 – MISCELLANEOUS

10.01 *Terms*

- A. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.

10.02 *Assignment of Contract*

- A. Unless expressly agreed to elsewhere in the Contract, no assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, money that may become due and money that is due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 *Successors and Assigns*

- A. Owner and Contractor each binds itself, its successors, assigns, and legal representatives to the other party hereto, its successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 *Severability*

- A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 *Contractor's Certifications*

- A. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 10.05:
 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process or in the Contract execution;
 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and

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4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

ARTICLE 11 – E-VERIFY

11.01 By signing this contract, the contracting parties affirm, for the duration of the agreement, that they will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the state of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

ARTICLE 12 – MISCELLANEOUS

12.1 As required per HB24, Act #2014-404, it is stated the Owner currently has or will have sufficient funds available from local funds to be utilized to fulfill the Owner's obligations under the contract.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement.

This Agreement will be effective on _____ (which is the Effective Date of the Contract).

OWNER:

CONTRACTOR:

City of Orange Beach

By: _____

By: _____

Title: Tony Kennon, Mayor

Title: _____

(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____

Attest: _____

Title: _____

Title: _____

Address for giving notices:

Address for giving notices:

4099 Orange Beach Blvd.

Orange Beach, AL 36561

License No.: _____

(where applicable)

(If Owner is a corporation, attach evidence of authority to sign. If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of this Agreement.)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

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NOTICE TO PROCEED

Owner: City of Orange Beach

Owner's Contract No.: S1P23-OBSU

Contractor:

Contractor's Project No.:

Engineer: Goodwyn, Mills & Cawood, Inc.

Engineer's Project No.: CMOB190340

Project: New Sewer Force Main Canal Road
to CR-12

Contract Name:

Effective Date of Contract:

TO CONTRACTOR:

Owner hereby notifies Contractor that the Contract Times under the above Contract will commence to run on _____, 20___. [see Paragraph 4.01 of the General Conditions]

On or before that date, Contractor shall start performing its obligations under the Contract Documents. In accordance with the Agreement, [the date of Substantial Completion is _____, and the date of readiness for final payment is _____] *or* [the number of days to achieve Substantial Completion is 270, and the number of days to achieve readiness for final payment is 300].

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Owner: CITY OF ORANGE BEACH

Contractor:

By: Tony Kennon

By:

Title: Mayor

Title:

Date Issued: _____

Date Issued: _____

Copy: Engineer

NOT FOR BIDDING

PERFORMANCE BOND

CONTRACTOR *(name and address):*

SURETY *(name and address of principal place of business):*

OWNER *(name and address):*

CONSTRUCTION CONTRACT

Effective Date of the Agreement:

Amount:

Description *(name and location):*

BOND

Bond Number:

Date *(not earlier than the Effective Date of the Agreement of the Construction Contract):*

Amount:

Modifications to this Bond Form: None See Paragraph 16

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Performance Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

 Contractor's Name and Corporate Seal

 Surety's Name and Corporate Seal

By: _____
 Signature

By: _____
 Signature *(attach power of attorney)*

 Print Name

 Print Name

 Title

 Title

Attest: _____
 Signature

Attest: _____
 Signature

 Title

 Title

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

NOT FOR BIDDING

1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner for the performance of the Construction Contract, which is incorporated herein by reference.

2. If the Contractor performs the Construction Contract, the Surety and the Contractor shall have no obligation under this Bond, except when applicable to participate in a conference as provided in Paragraph 3.

3. If there is no Owner Default under the Construction Contract, the Surety's obligation under this Bond shall arise after:

3.1 The Owner first provides notice to the Contractor and the Surety that the Owner is considering declaring a Contractor Default. Such notice shall indicate whether the Owner is requesting a conference among the Owner, Contractor, and Surety to discuss the Contractor's performance. If the Owner does not request a conference, the Surety may, within five (5) business days after receipt of the Owner's notice, request such a conference. If the Surety timely requests a conference, the Owner shall attend. Unless the Owner agrees otherwise, any conference requested under this Paragraph 3.1 shall be held within ten (10) business days of the Surety's receipt of the Owner's notice. If the Owner, the Contractor, and the Surety agree, the Contractor shall be allowed a reasonable time to perform the Construction Contract, but such an agreement shall not waive the Owner's right, if any, subsequently to declare a Contractor Default;

3.2 The Owner declares a Contractor Default, terminates the Construction Contract and notifies the Surety; and

3.3 The Owner has agreed to pay the Balance of the Contract Price in accordance with the terms of the Construction Contract to the Surety or to a contractor selected to perform the Construction Contract.

4. Failure on the part of the Owner to comply with the notice requirement in Paragraph 3.1 shall not constitute a failure to comply with a condition precedent to the Surety's obligations, or release the Surety from its obligations, except to the extent the Surety demonstrates actual prejudice.

5. When the Owner has satisfied the conditions of Paragraph 3, the Surety shall promptly and at the Surety's expense take one of the following actions:

5.1 Arrange for the Contractor, with the consent of the Owner, to perform and complete the Construction Contract;

5.2 Undertake to perform and complete the Construction Contract itself, through its agents or independent contractors;

5.3 Obtain bids or negotiated proposals from qualified contractors acceptable to the Owner for a contract for performance and completion of the Construction Contract, arrange for a contract to be prepared for execution by the Owner and a contractor selected with the Owners concurrence,

to be secured with performance and payment bonds executed by a qualified surety equivalent to the bonds issued on the Construction Contract, and pay to the Owner the amount of damages as described in Paragraph 7 in excess of the Balance of the Contract Price incurred by the Owner as a result of the Contractor Default; or

5.4 Waive its right to perform and complete, arrange for completion, or obtain a new contractor, and with reasonable promptness under the circumstances:

5.4.1 After investigation, determine the amount for which it may be liable to the Owner and, as soon as practicable after the amount is determined, make payment to the Owner; or

5.4.2 Deny liability in whole or in part and notify the Owner, citing the reasons for denial.

6. If the Surety does not proceed as provided in Paragraph 5 with reasonable promptness, the Surety shall be deemed to be in default on this Bond seven (7) days after receipt of an additional written notice from the Owner to the Surety demanding that the Surety perform its obligations under this Bond, and the Owner shall be entitled to enforce any remedy available to the Owner. If the Surety proceeds as provided in Paragraph 5.4, and the Owner refuses the payment or the Surety has denied liability, in whole or in part, without further notice the Owner shall be entitled to enforce any remedy available to the Owner.

7. If the Surety elects to act under Paragraph 5.1, 5.2, or 5.3, then the responsibilities of the Surety to the Owner shall not be greater than those of the Contractor under the Construction Contract, and the responsibilities of the Owner to the Surety shall not be greater than those of the Owner under the Construction Contract. Subject to the commitment by the Owner to pay the Balance of the Contract Price, the Surety is obligated, without duplication for:

7.1 the responsibilities of the Contractor for correction of defective work and completion of the Construction Contract;

7.2 additional legal, design professional, and delay costs resulting from the Contractor's Default, and resulting from the actions or failure to act of the Surety under Paragraph 5; and

7.3 liquidated damages, or if no liquidated damages are specified in the Construction Contract, actual damages caused by delayed performance or non-performance of the Contractor.

8. If the Surety elects to act under Paragraph 5.1, 5.3, or 5.4, the Surety's liability is limited to the amount of this Bond.

9. The Surety shall not be liable to the Owner or others for obligations of the Contractor that are unrelated to the Construction Contract, and the Balance of the Contract Price shall not be reduced or set off on account of any such unrelated obligations. No right of action shall accrue on this Bond to any person or entity other than the Owner or its heirs, executors, administrators, successors, and assigns.

NOT FOR BIDDING

10. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.

11. Any proceeding, legal or equitable, under this Bond may be instituted in any court of competent jurisdiction in the location in which the work or part of the work is located and shall be instituted within two years after a declaration of Contractor Default or within two years after the Contractor ceased working or within two years after the Surety refuses or fails to perform its obligations under this Bond, whichever occurs first. If the provisions of this paragraph are void or prohibited by law, the minimum periods of limitations available to sureties as a defense in the jurisdiction of the suit shall be applicable.

12. Notice to the Surety, the Owner, or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears.

13. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

14. Definitions

14.1 Balance of the Contract Price: The total amount payable by the Owner to the Contractor under the Construction Contract after all proper adjustments have been made including allowance for the Contractor for any amounts received or to be received by the Owner in settlement of insurance or other claims

for damages to which the Contractor is entitled, reduced by all valid and proper payments made to or on behalf of the Contractor under the Construction Contract.

14.2 Construction Contract: The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and changes made to the agreement and the Contract Documents.

14.3 Contractor Default: Failure of the Contractor, which has not been remedied or waived, to perform or otherwise to comply with a material term of the Construction Contract.

14.4 Owner Default: Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.

14.5 Contract Documents: All the documents that comprise the agreement between the Owner and Contractor.

15. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

16. Modifications to this Bond are as follows:

NOT FOR BIDDING

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PAYMENT BOND

CONTRACTOR (name and address):

SURETY (name and address of principal place of business):

OWNER (name and address):

CONSTRUCTION CONTRACT

Effective Date of the Agreement:

Amount:

Description (name and location):

BOND

Bond Number:

Date (not earlier than the Effective Date of the Agreement of the Construction Contract):

Amount:

Modifications to this Bond Form: None See Paragraph 18

Surety and Contractor, intending to be legally bound hereby, subject to the terms set forth below, do each cause this Payment Bond to be duly executed by an authorized officer, agent, or representative.

CONTRACTOR AS PRINCIPAL

SURETY

(seal)

Contractor's Name and Corporate Seal

(seal)

Surety's Name and Corporate Seal

By: _____

Signature

By: _____

Signature (attach power of attorney)

Print Name

Print Name

Title

Title

Attest: _____

Signature

Attest: _____

Signature

Title

Title

Notes: (1) Provide supplemental execution by any additional parties, such as joint venturers. (2) Any singular reference to Contractor, Surety, Owner, or other party shall be considered plural where applicable.

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1. The Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to the Owner to pay for labor, materials, and equipment furnished for use in the performance of the Construction Contract, which is incorporated herein by reference, subject to the following terms.
2. If the Contractor promptly makes payment of all sums due to Claimants, and defends, indemnifies, and holds harmless the Owner from claims, demands, liens, or suits by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, then the Surety and the Contractor shall have no obligation under this Bond.
3. If there is no Owner Default under the Construction Contract, the Surety's obligation to the Owner under this Bond shall arise after the Owner has promptly notified the Contractor and the Surety (at the address described in Paragraph 13) of claims, demands, liens, or suits against the Owner or the Owner's property by any person or entity seeking payment for labor, materials, or equipment furnished for use in the performance of the Construction Contract, and tendered defense of such claims, demands, liens, or suits to the Contractor and the Surety.
4. When the Owner has satisfied the conditions in Paragraph 3, the Surety shall promptly and at the Surety's expense defend, indemnify, and hold harmless the Owner against a duly tendered claim, demand, lien, or suit.
5. The Surety's obligations to a Claimant under this Bond shall arise after the following:
 - 5.1 Claimants who do not have a direct contract with the Contractor,
 - 5.1.1 have furnished a written notice of non-payment to the Contractor, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were, or equipment was, furnished or supplied or for whom the labor was done or performed, within ninety (90) days after having last performed labor or last furnished materials or equipment included in the Claim; and
 - 5.1.2 have sent a Claim to the Surety (at the address described in Paragraph 13).
 - 5.2 Claimants who are employed by or have a direct contract with the Contractor have sent a Claim to the Surety (at the address described in Paragraph 13).
6. If a notice of non-payment required by Paragraph 5.1.1 is given by the Owner to the Contractor, that is sufficient to satisfy a Claimant's obligation to furnish a written notice of non-payment under Paragraph 5.1.1.
7. When a Claimant has satisfied the conditions of Paragraph 5.1 or 5.2, whichever is applicable, the Surety shall promptly and at the Surety's expense take the following actions:
 - 7.1 Send an answer to the Claimant, with a copy to the Owner, within sixty (60) days after receipt of the Claim, stating the amounts that are undisputed and the basis for challenging any amounts that are disputed; and
 - 7.2 Pay or arrange for payment of any undisputed amounts.
 - 7.3 The Surety's failure to discharge its obligations under Paragraph 7.1 or 7.2 shall not be deemed to constitute a waiver of defenses the Surety or Contractor may have or acquire as to a Claim, except as to undisputed amounts for which the Surety and Claimant have reached agreement. If, however, the Surety fails to discharge its obligations under Paragraph 7.1 or 7.2, the Surety shall indemnify the Claimant for the reasonable attorney's fees the Claimant incurs thereafter to recover any sums found to be due and owing to the Claimant.
8. The Surety's total obligation shall not exceed the amount of this Bond, plus the amount of reasonable attorney's fees provided under Paragraph 7.3, and the amount of this Bond shall be credited for any payments made in good faith by the Surety.
9. Amounts owed by the Owner to the Contractor under the Construction Contract shall be used for the performance of the Construction Contract and to satisfy claims, if any, under any construction performance bond. By the Contractor furnishing and the Owner accepting this Bond, they agree that all funds earned by the Contractor in the performance of the Construction Contract are dedicated to satisfy obligations of the Contractor and Surety under this Bond, subject to the Owner's priority to use the funds for the completion of the work.
10. The Surety shall not be liable to the Owner, Claimants, or others for obligations of the Contractor that are unrelated to the Construction Contract. The Owner shall not be liable for the payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligation to make payments to or give notice on behalf of Claimants, or otherwise have any obligations to Claimants under this Bond.
11. The Surety hereby waives notice of any change, including changes of time, to the Construction Contract or to related subcontracts, purchase orders, and other obligations.

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12. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the state in which the project that is the subject of the Construction Contract is located or after the expiration of one year from the date (1) on which the Claimant sent a Claim to the Surety pursuant to Paragraph 5.1.2 or 5.2, or (2) on which the last labor or service was performed by anyone or the last materials or equipment were furnished by anyone under the Construction Contract, whichever of (1) or (2) first occurs. If the provisions of this paragraph are void or prohibited by law, the minimum period of limitation available to sureties as a defense in the jurisdiction of the suit shall be applicable.
13. Notice and Claims to the Surety, the Owner, or the Contractor shall be mailed or delivered to the address shown on the page on which their signature appears. Actual receipt of notice or Claims, however accomplished, shall be sufficient compliance as of the date received.
14. When this Bond has been furnished to comply with a statutory or other legal requirement in the location where the construction was to be performed, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.
15. Upon requests by any person or entity appearing to be a potential beneficiary of this Bond, the Contractor and Owner shall promptly furnish a copy of this Bond or shall permit a copy to be made.
16. **Definitions**
- 16.1 **Claim:** A written statement by the Claimant including at a minimum:
1. The name of the Claimant;
 2. The name of the person for whom the labor was done, or materials or equipment furnished;
 3. A copy of the agreement or purchase order pursuant to which labor, materials, or equipment was furnished for use in the performance of the Construction Contract;
 4. A brief description of the labor, materials, or equipment furnished;
 5. The date on which the Claimant last performed labor or last furnished materials or equipment for use in the performance of the Construction Contract;
 6. The total amount earned by the Claimant for labor, materials, or equipment furnished as of the date of the Claim;
 7. The total amount of previous payments received by the Claimant; and
8. The total amount due and unpaid to the Claimant for labor, materials, or equipment furnished as of the date of the Claim.
- 16.2 **Claimant:** An individual or entity having a direct contract with the Contractor or with a subcontractor of the Contractor to furnish labor, materials, or equipment for use in the performance of the Construction Contract. The term Claimant also includes any individual or entity that has rightfully asserted a claim under an applicable mechanic's lien or similar statute against the real property upon which the Project is located. The intent of this Bond shall be to include without limitation in the terms of "labor, materials, or equipment" that part of the water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Construction Contract, architectural and engineering services required for performance of the work of the Contractor and the Contractor's subcontractors, and all other items for which a mechanic's lien may be asserted in the jurisdiction where the labor, materials, or equipment were furnished.
- 16.3 **Construction Contract:** The agreement between the Owner and Contractor identified on the cover page, including all Contract Documents and all changes made to the agreement and the Contract Documents.
- 16.4 **Owner Default:** Failure of the Owner, which has not been remedied or waived, to pay the Contractor as required under the Construction Contract or to perform and complete or comply with the other material terms of the Construction Contract.
- 16.5 **Contract Documents:** All the documents that comprise the agreement between the Owner and Contractor.
17. If this Bond is issued for an agreement between a contractor and subcontractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.
18. Modifications to this Bond are as follows:

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Contractor's Application for Payment No.

Application Period:		Application Date:
To (Owner):	From (Contractor):	Via (Engineer):
Project:	Contract:	
Owner's Contract No.:	Contractor's Project No.:	Engineer's Project No.:

NOT FOR BIDDING

**Application For Payment
Change Order Summary**

Approved Change Orders	Additions	Deductions
1. ORIGINAL CONTRACT PRICE.....		\$
2. Net Change by Change Orders.....		\$
3. Current Contract Price (Line 1 ± 2).....		\$
4. TOTAL COMPLETED AND STORED TO DATE (Column total on Progress Estimates).....		\$
5. RETAINAGE:		
a. <input type="checkbox"/> Work Completed.....		\$
b. <input checked="" type="checkbox"/> Stored Material.....		\$
c. <input type="checkbox"/> Retained (Line 5.a + Line 5.b).....		\$
6. AMOUNT ELIGIBLE FOR PAYMENT (Line 4 - Line 5.c).....		\$
7. LESS PREVIOUS PAYMENTS (Line 6 from prior Application).....		\$
8. AMOUNT DUE THIS APPLICATION.....		\$
9. BALANCE TO FINISH, PLUS RETAINAGE (Column G total on Progress Estimates + Line 5 above).....		\$
TOTALS		
NET CHANGE BY		
CHANGE ORDERS		

Contractor's Certification
The undersigned Contractor certifies, to the best of its knowledge, the following:
(1) All previous progress payments received from Owner on account of Work done under the Contract have been applied on account to discharge Contractor's legitimate obligations incurred in connection with the Work covered by prior Applications for Payment;
(2) Title to all Work, materials and equipment incorporated in said Work, or otherwise listed in or covered by this Application for Payment, will pass to Owner at time of payment free and clear of all Liens, security interests, and encumbrances (except such as are covered by a bond acceptable to Owner indemnifying Owner against any such Liens, security interest, or encumbrances); and
(3) All the Work covered by this Application for Payment is in accordance with the Contract Documents and is not defective.

Payment of: \$ _____ (Line 8 or other - attach explanation of the other amount)
is recommended by: _____ (Engineer) _____ (Date)
Payment of: \$ _____ (Line 8 or other - attach explanation of the other amount)
is approved by: _____ (Owner) _____ (Date)
Approved by: _____ (Funding or Financing Entity (if applicable)) _____ (Date)

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Progress Estimate - Lump Sum Work

Contractor's Application

For (Contract):		Application Number:						
Application Period:		Application Date:						
Specification Section No.	A Description	B Scheduled Value (\$)	C Work Completed		E Materials Presently Stored (not in C or D)	F Total Completed and Stored to Date (C + D + E)		G Balance to Finish (B - F)
			D From Previous Application (C+D)	D This Period		% (F / B)		
		Totals						

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CERTIFICATE OF SUBSTANTIAL COMPLETION

Owner:	Owner's Contract No.:
Contractor:	Contractor's Project No.:
Engineer:	Engineer's Project No.:
Project:	Contract Name:

This [preliminary] [final] Certificate of Substantial Completion applies to:

- All Work The following specified portions of the Work:

Date of Substantial Completion

The Work to which this Certificate applies has been inspected by authorized representatives of Owner, Contractor, and Engineer, and found to be substantially complete. The Date of Substantial Completion of the Work or portion thereof designated above is hereby established, subject to the provisions of the Contract pertaining to Substantial Completion. The date of Substantial Completion in the final Certificate of Substantial Completion marks the commencement of the contractual correction period and applicable warranties required by the Contract.

A punch list of items to be completed or corrected is attached to this Certificate. This list may not be all-inclusive, and the failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract.

The responsibilities between Owner and Contractor for security, operation, safety, maintenance, heat, utilities, insurance, and warranties upon Owner's use or occupancy of the Work shall be as provided in the Contract, except as amended as follows: *[Note: Amendments of contract responsibilities recorded in this Certificate should be the product of mutual agreement of Owner and Contractor; see Paragraph 15.03.D of the General Conditions.]*

Amendments to Owner's responsibilities: None As follows

Amendments to Contractor's responsibilities: None As follows

The following documents are attached to and made a part of this Certificate: *[punch list; others]*

This Certificate does not constitute an acceptance of Work not in accordance with the Contract Documents, nor is it a release of Contractor's obligation to complete the Work in accordance with the Contract.

EXECUTED BY ENGINEER:		RECEIVED:	RECEIVED:
By: _____	By: _____	By: _____	By: _____
(Authorized signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)	
Title: _____	Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____	Date: _____

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**STANDARD GENERAL CONDITIONS OF THE
CONSTRUCTION CONTRACT**

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ARTICLE 1 – DEFINITIONS AND TERMINOLOGY

1.01 *Defined Terms*

- A. Wherever used in the Bidding Requirements or Contract Documents, a term printed with initial capital letters, including the term's singular and plural forms, will have the meaning indicated in the definitions below. In addition to terms specifically defined, terms with initial capital letters in the Contract Documents include references to identified articles and paragraphs, and the titles of other documents or forms.
1. *Addenda*—Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.
 2. *Agreement*—The written instrument, executed by Owner and Contractor, that sets forth the Contract Price and Contract Times, identifies the parties and the Engineer, and designates the specific items that are Contract Documents.
 3. *Application for Payment*—The form acceptable to Engineer which is to be used by Contractor during the course of the Work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.
 4. *Bid*—The offer of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
 5. *Bidder*—An individual or entity that submits a Bid to Owner.
 6. *Bidding Documents*—The Bidding Requirements, the proposed Contract Documents, and all Addenda.
 7. *Bidding Requirements*—The advertisement or invitation to bid, Instructions to Bidders, Bid Bond or other Bid security, if any, the Bid Form, and the Bid with any attachments.
 8. *Change Order*—A document which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the Contract Price or the Contract Times, or other revision to the Contract, issued on or after the Effective Date of the Contract.
 9. *Change Proposal*—A written request by Contractor, duly submitted in compliance with the procedural requirements set forth herein, seeking an adjustment in Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; challenging a set-off against payments due; or seeking other relief with respect to the terms of the Contract.
 10. *Claim*—(a) A demand or assertion by Owner directly to Contractor, duly submitted in compliance with the procedural requirements set forth herein: seeking an adjustment of Contract Price or Contract Times, or both; contesting an initial decision by Engineer concerning the requirements of the Contract Documents or the acceptability of Work under the Contract Documents; contesting Engineer's decision regarding a Change Proposal; seeking resolution of a contractual issue that Engineer has declined to address; or seeking other relief with respect to the terms of the Contract; or (b) a demand or assertion by Contractor directly to Owner, duly submitted in compliance with the procedural requirements set forth herein, contesting Engineer's decision regarding a Change Proposal; or seeking resolution of a contractual issue that Engineer

has declined to address. A demand for money or services by a third party is not a Claim.

11. *Constituent of Concern*—Asbestos, petroleum, radioactive materials, polychlorinated biphenyls (PCBs), hazardous waste, and any substance, product, waste, or other material of any nature whatsoever that is or becomes listed, regulated, or addressed pursuant to (a) the Comprehensive Environmental Response, Compensation and Liability Act, 42 U.S.C. §§9601 et seq. (“CERCLA”); (b) the Hazardous Materials Transportation Act, 49 U.S.C. §§5501 et seq.; (c) the Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq. (“RCRA”); (d) the Toxic Substances Control Act, 15 U.S.C. §§2601 et seq.; (e) the Clean Water Act, 33 U.S.C. §§1251 et seq.; (f) the Clean Air Act, 42 U.S.C. §§7401 et seq.; or (g) any other federal, state, or local statute, law, rule, regulation, ordinance, resolution, code, order, or decree regulating, relating to, or imposing liability or standards of conduct concerning, any hazardous, toxic, or dangerous waste, substance, or material.
12. *Contract*—The entire and integrated written contract between the Owner and Contractor concerning the Work.
13. *Contract Documents*—Those items so designated in the Agreement, and which together comprise the Contract.
14. *Contract Price*—The money that Owner has agreed to pay Contractor for completion of the Work in accordance with the Contract Documents. .
15. *Contract Times*—The number of days or the dates by which Contractor shall: (a) achieve Milestones, if any; (b) achieve Substantial Completion; and (c) complete the Work.
16. *Contractor*—The individual or entity with which Owner has contracted for performance of the Work.
17. *Cost of the Work*—See Paragraph 13.01 for definition.
18. *Drawings*—The part of the Contract that graphically shows the scope, extent, and character of the Work to be performed by Contractor.
19. *Effective Date of the Contract*—The date, indicated in the Agreement, on which the Contract becomes effective.
20. *Engineer*—The individual or entity named as such in the Agreement.
21. *Field Order*—A written order issued by Engineer which requires minor changes in the Work but does not change the Contract Price or the Contract Times.
22. *Hazardous Environmental Condition*—The presence at the Site of Constituents of Concern in such quantities or circumstances that may present a danger to persons or property exposed thereto. The presence at the Site of materials that are necessary for the execution of the Work, or that are to be incorporated in the Work, and that are controlled and contained pursuant to industry practices, Laws and Regulations, and the requirements of the Contract, does not establish a Hazardous Environmental Condition.
23. *Laws and Regulations; Laws or Regulations*—Any and all applicable laws, statutes, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.

24. *Liens*—Charges, security interests, or encumbrances upon Contract-related funds, real property, or personal property.
25. *Milestone*—A principal event in the performance of the Work that the Contract requires Contractor to achieve by an intermediate completion date or by a time prior to Substantial Completion of all the Work.
26. *Notice of Award*—The written notice by Owner to a Bidder of Owner’s acceptance of the Bid.
27. *Notice to Proceed*—A written notice by Owner to Contractor fixing the date on which the Contract Times will commence to run and on which Contractor shall start to perform the Work.
28. *Owner*—The individual or entity with which Contractor has contracted regarding the Work, and which has agreed to pay Contractor for the performance of the Work, pursuant to the terms of the Contract.
29. *Progress Schedule*—A schedule, prepared and maintained by Contractor, describing the sequence and duration of the activities comprising the Contractor’s plan to accomplish the Work within the Contract Times.
30. *Project*—The total undertaking to be accomplished for Owner by engineers, contractors, and others, including planning, study, design, construction, testing, commissioning, and start-up, and of which the Work to be performed under the Contract Documents is a part.
31. *Project Manual*—The written documents prepared for, or made available for, procuring and constructing the Work including but not limited to the Bidding Documents or other construction procurement documents, geotechnical and existing conditions information, the Agreement, bond forms, General Conditions, Supplementary Conditions, and Specifications. The contents of the Project Manual may be bound in one or more volumes.
32. *Resident Project Representative*—The authorized representative of Engineer assigned to assist Engineer at the Site. As used herein, the term Resident Project Representative or “RPR” includes any assistants or field staff of Resident Project Representative.
33. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and that establish the standards by which such portion of the Work will be judged.
34. *Schedule of Submittals*—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements for Engineer’s review of the submittals and the performance of related construction activities.
35. *Schedule of Values*—A schedule, prepared and maintained by Contractor, allocating portions of the Contract Price to various portions of the Work and used as the basis for reviewing Contractor’s Applications for Payment.
36. *Shop Drawings*—All drawings, diagrams, illustrations, schedules, and other data or information that are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work. Shop Drawings, whether approved or not, are not Drawings and are not Contract Documents.

37. *Site*—Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the Work is to be performed, including rights-of-way and easements, and such other lands furnished by Owner which are designated for the use of Contractor.
38. *Specifications*—The part of the Contract that consists of written requirements for materials, equipment, systems, standards, and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable to the Work.
39. *Subcontractor*—An individual or entity having a direct contract with Contractor or with any other Subcontractor for the performance of a part of the Work.
40. *Substantial Completion*—The time at which the Work (or a specified part thereof) has progressed to the point where, in the opinion of Engineer, the Work (or a specified part thereof) is sufficiently complete, in accordance with the Contract Documents, so that the Work (or a specified part thereof) can be utilized for the purposes for which it is intended. The terms “substantially complete” and “substantially completed” as applied to all or part of the Work refer to Substantial Completion hereof.
41. *Successful Bidder*—The Bidder whose Bid the Owner accepts, and to which the Owner makes an award of contract, subject to stated conditions.
42. *Supplementary Conditions*—The part of the contract that amends or supplements these General Conditions.
43. *Supplier*—A manufacturer, fabricator, supplier, distributor, materialman, or vendor having a direct contract with Contractor or with any Subcontractor to furnish materials or equipment to be incorporated in the Work by Contractor or a Subcontractor.
44. *Technical Data*—Those items expressly identified as Technical Data in the Supplementary Conditions with respect to either (a) subsurface conditions at the Site, or physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) or (b) Hazardous Environmental Conditions at the Site. If no such express identifications of Technical Data have been made with respect to conditions at the Site, then the data contained in boring logs, recorded measurements of subsurface water levels, laboratory test results, and other factual, objective information regarding conditions at the Site that are set forth in any geotechnical or environmental report prepared for the Project and made available to Contractor are hereby defined as Technical Data with respect to conditions at the Site under Paragraphs 5.03, 5.04, and 5.06.
45. *Underground Facilities*—All underground pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels, or other such facilities or attachments, and any encasements containing such facilities, including but not limited to those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, fiber optic transmissions, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.
46. *Unit Price Work*—Work to be paid for on the basis of unit prices.
47. *Work*—The entire construction or the various separately identifiable parts thereof required to be provided under the Contract Documents. Work includes and is the result of performing or providing all labor, services, and documentation necessary to produce such construction; furnishing, installing, and incorporating all materials and equipment into such construction; and may include related services such as testing, start-up, and commissioning, all as required by the Contract Documents.

48. *Work Change Directive*—A written directive to Contractor issued on or after the Effective Date of the Contract, signed by Owner and recommended by Engineer, ordering an addition, deletion, or revision in the Work.

1.02 Terminology

- A. The words and terms discussed in the following paragraphs are not defined but, when used in the Bidding Requirements or Contract Documents, have the indicated meaning.
- B. *Intent of Certain Terms or Adjectives:*
 1. The Contract Documents include the terms “as allowed,” “as approved,” “as ordered,” “as directed” or terms of like effect or import to authorize an exercise of professional judgment by Engineer. In addition, the adjectives “reasonable,” “suitable,” “acceptable,” “proper,” “satisfactory,” or adjectives of like effect or import are used to describe an action or determination of Engineer as to the Work. It is intended that such exercise of professional judgment, action, or determination will be solely to evaluate, in general, the Work for compliance with the information in the Contract Documents and with the design concept of the Project as a functioning whole as shown or indicated in the Contract Documents (unless there is a specific statement indicating otherwise). The use of any such term or adjective is not intended to and shall not be effective to assign to Engineer any duty or authority to supervise or direct the performance of the Work, or any duty or authority to undertake responsibility contrary to the provisions of Article 15 or any other provision of the Contract Documents.
- C. *Day:*
 1. The word “day” means a calendar day of 24 hours measured from midnight to the next midnight.
- D. *Defective:*
 1. The word “defective” when modifying the word “Work,” refers to Work that is unsatisfactory, faulty, or deficient in that it:
 - a. does not conform to the Contract Documents; or
 - b. does not meet the requirements of any applicable inspection, reference standard, test, or approval referred to in the Contract Documents; or
 - c. has been damaged prior to Engineer’s recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner at Substantial Completion in accordance with Paragraph 15.03 or 15.04).
- E. *Furnish, Install, Perform, Provide:*
 1. The word “furnish,” when used in connection with services, materials, or equipment, shall mean to supply and deliver said services, materials, or equipment to the Site (or some other specified location) ready for use or installation and in usable or operable condition.
 2. The word “install,” when used in connection with services, materials, or equipment, shall mean to put into use or place in final position said services, materials, or equipment complete and ready for intended use.

3. The words “perform” or “provide,” when used in connection with services, materials, or equipment, shall mean to furnish and install said services, materials, or equipment complete and ready for intended use.
 4. If the Contract Documents establish an obligation of Contractor with respect to specific services, materials, or equipment, but do not expressly use any of the four words “furnish,” “install,” “perform,” or “provide,” then Contractor shall furnish and install said services, materials, or equipment complete and ready for intended use.
- F. Unless stated otherwise in the Contract Documents, words or phrases that have a well-known technical or construction industry or trade meaning are used in the Contract Documents in accordance with such recognized meaning.

ARTICLE 2 – PRELIMINARY MATTERS

2.01 *Delivery of Bonds and Evidence of Insurance*

- A. *Bonds:* When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner such bonds as Contractor may be required to furnish.
- B. *Evidence of Contractor’s Insurance:* When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver to Owner, with copies to each named insured and additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract), the certificates and other evidence of insurance required to be provided by Contractor in accordance with Article 6.
- C. *Evidence of Owner’s Insurance:* After receipt of the executed counterparts of the Agreement and all required bonds and insurance documentation, Owner shall promptly deliver to Contractor, with copies to each named insured and additional insured (as identified in the Supplementary Conditions or otherwise), the certificates and other evidence of insurance required to be provided by Owner under Article 6.

2.02 *Copies of Documents*

- A. Owner shall furnish to Contractor four printed copies of the Contract (including one fully executed counterpart of the Agreement), and one copy in electronic portable document format (PDF). Additional printed copies will be furnished upon request at the cost of reproduction.
- B. Owner shall maintain and safeguard at least one original printed record version of the Contract, including Drawings and Specifications signed and sealed by Engineer and other design professionals. Owner shall make such original printed record version of the Contract available to Contractor for review. Owner may delegate the responsibilities under this provision to Engineer.

2.03 *Before Starting Construction*

- A. *Preliminary Schedules:* Within 10 days after the Effective Date of the Contract (or as otherwise specifically required by the Contract Documents), Contractor shall submit to Engineer for timely review:
 1. a preliminary Progress Schedule indicating the times (numbers of days or dates) for starting and completing the various stages of the Work, including any Milestones specified in the Contract;
 2. a preliminary Schedule of Submittals; and

3. a preliminary Schedule of Values for all of the Work which includes quantities and prices of items which when added together equal the Contract Price and subdivides the Work into component parts in sufficient detail to serve as the basis for progress payments during performance of the Work. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work.

2.04 *Preconstruction Conference; Designation of Authorized Representatives*

- A. Before any Work at the Site is started, a conference attended by Owner, Contractor, Engineer, and others as appropriate will be held to establish a working understanding among the parties as to the Work and to discuss the schedules referred to in Paragraph 2.03.A, procedures for handling Shop Drawings, Samples, and other submittals, processing Applications for Payment, electronic or digital transmittals, and maintaining required records.
- B. At this conference Owner and Contractor each shall designate, in writing, a specific individual to act as its authorized representative with respect to the services and responsibilities under the Contract. Such individuals shall have the authority to transmit and receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

2.05 *Initial Acceptance of Schedules*

- A. At least 10 days before submission of the first Application for Payment a conference, attended by Contractor, Engineer, and others as appropriate, will be held to review for acceptability to Engineer as provided below the schedules submitted in accordance with Paragraph 2.03.A. Contractor shall have an additional 10 days to make corrections and adjustments and to complete and resubmit the schedules. No progress payment shall be made to Contractor until acceptable schedules are submitted to Engineer.
 1. The Progress Schedule will be acceptable to Engineer if it provides an orderly progression of the Work to completion within the Contract Times. Such acceptance will not impose on Engineer responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the Work, nor interfere with or relieve Contractor from Contractor's full responsibility therefor.
 2. Contractor's Schedule of Submittals will be acceptable to Engineer if it provides a workable arrangement for reviewing and processing the required submittals.
 3. Contractor's Schedule of Values will be acceptable to Engineer as to form and substance if it provides a reasonable allocation of the Contract Price to the component parts of the Work.

2.06 *Electronic Transmittals*

- A. Except as otherwise stated elsewhere in the Contract, the Owner, Engineer, and Contractor may transmit, and shall accept, Project-related correspondence, text, data, documents, drawings, information, and graphics, including but not limited to Shop Drawings and other submittals, in electronic media or digital format, either directly, or through access to a secure Project website.
- B. If the Contract does not establish protocols for electronic or digital transmittals, then Owner, Engineer, and Contractor shall jointly develop such protocols.
- C. When transmitting items in electronic media or digital format, the transmitting party makes no representations as to long term compatibility, usability, or readability of the items resulting from the recipient's use of software application packages, operating systems, or

computer hardware differing from those used in the drafting or transmittal of the items, or from those established in applicable transmittal protocols.

ARTICLE 3 – DOCUMENTS: INTENT, REQUIREMENTS, REUSE

3.01 *Intent*

- A. The Contract Documents are complementary; what is required by one is as binding as if required by all.
- B. It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents.
- C. Unless otherwise stated in the Contract Documents, if there is a discrepancy between the electronic or digital versions of the Contract Documents (including any printed copies derived from such electronic or digital versions) and the printed record version, the printed record version shall govern.
- D. The Contract supersedes prior negotiations, representations, and agreements, whether written or oral.
- E. Engineer will issue clarifications and interpretations of the Contract Documents as provided herein.

3.02 *Reference Standards*

- A. Standards Specifications, Codes, Laws and Regulations
 1. Reference in the Contract Documents to standard specifications, manuals, reference standards, or codes of any technical society, organization, or association, or to Laws or Regulations, whether such reference be specific or by implication, shall mean the standard specification, manual, reference standard, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Contract if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.
 2. No provision of any such standard specification, manual, reference standard, or code, or any instruction of a Supplier, shall be effective to change the duties or responsibilities of Owner, Contractor, or Engineer, or any of their subcontractors, consultants, agents, or employees, from those set forth in the part of the Contract Documents prepared by or for Engineer. No such provision or instruction shall be effective to assign to Owner, Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, any duty or authority to supervise or direct the performance of the Work or any duty or authority to undertake responsibility inconsistent with the provisions of the part of the Contract Documents prepared by or for Engineer.

3.03 *Reporting and Resolving Discrepancies*

- A. *Reporting Discrepancies:*
 1. *Contractor's Verification of Figures and Field Measurements:* Before undertaking each part of the Work, Contractor shall carefully study the Contract Documents, and check and verify pertinent figures and dimensions therein, particularly with respect to applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy that Contractor discovers, or has actual knowledge of, and shall not proceed with any Work affected thereby until the conflict,

error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract Documents issued pursuant to Paragraph 11.01.

2. *Contractor's Review of Contract Documents:* If, before or during the performance of the Work, Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents, or between the Contract Documents and (a) any applicable Law or Regulation, (b) actual field conditions, (c) any standard specification, manual, reference standard, or code, or (d) any instruction of any Supplier, then Contractor shall promptly report it to Engineer in writing. Contractor shall not proceed with the Work affected thereby (except in an emergency as required by Paragraph 7.15) until the conflict, error, ambiguity, or discrepancy is resolved, by a clarification or interpretation by Engineer, or by an amendment or supplement to the Contract Documents issued pursuant to Paragraph 11.01.
3. Contractor shall not be liable to Owner or Engineer for failure to report any conflict, error, ambiguity, or discrepancy in the Contract Documents unless Contractor had actual knowledge thereof.

B. *Resolving Discrepancies:*

1. Except as may be otherwise specifically stated in the Contract Documents, the provisions of the part of the Contract Documents prepared by or for Engineer shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between such provisions of the Contract Documents and:
 - a. the provisions of any standard specification, manual, reference standard, or code, or the instruction of any Supplier (whether or not specifically incorporated by reference as a Contract Document); or
 - b. the provisions of any Law or Regulations applicable to the performance of the Work (unless such an interpretation of the provisions of the Contract Documents would result in violation of such Law or Regulation).

3.04 *Requirements of the Contract Documents*

- A. During the performance of the Work and until final payment, Contractor and Owner shall submit to the Engineer all matters in question concerning the requirements of the Contract Documents (sometimes referred to as requests for information or interpretation—RFIs), or relating to the acceptability of the Work under the Contract Documents, as soon as possible after such matters arise. Engineer will be the initial interpreter of the requirements of the Contract Documents, and judge of the acceptability of the Work thereunder.
- B. Engineer will, with reasonable promptness, render a written clarification, interpretation, or decision on the issue submitted, or initiate an amendment or supplement to the Contract Documents. Engineer's written clarification, interpretation, or decision will be final and binding on Contractor, unless it appeals by submitting a Change Proposal, and on Owner, unless it appeals by filing a Claim.
- C. If a submitted matter in question concerns terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work under the Contract Documents, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, then Engineer will promptly give written notice to Owner and Contractor that Engineer is unable to provide a decision or interpretation. If Owner and Contractor are unable to agree on resolution of such a matter in question, either party may pursue resolution as provided in Article 12.

3.05 *Reuse of Documents*

- A. Contractor and its Subcontractors and Suppliers shall not:
1. have or acquire any title to or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or its consultants, including electronic media editions, or reuse any such Drawings, Specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer; or
 2. have or acquire any title or ownership rights in any other Contract Documents, reuse any such Contract Documents for any purpose without Owner's express written consent, or violate any copyrights pertaining to such Contract Documents.
- B. The prohibitions of this Paragraph 3.05 will survive final payment, or termination of the Contract. Nothing herein shall preclude Contractor from retaining copies of the Contract Documents for record purposes.

ARTICLE 4 – COMMENCEMENT AND PROGRESS OF THE WORK

4.01 *Commencement of Contract Times; Notice to Proceed*

- A. The Contract Times will commence to run following the issuance of the Notice to Proceed by the Restore Council and funding is released.

4.02 *Starting the Work*

- A. Contractor shall start to perform the Work on the date when the Contract Times commence to run. No Work shall be done at the Site prior to such date.

4.03 *Reference Points*

- A. Owner shall provide engineering surveys to establish reference points for construction which in Engineer's judgment are necessary to enable Contractor to proceed with the Work. Contractor shall be responsible for laying out the Work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Contractor shall report to Engineer whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

4.04 *Progress Schedule*

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.05 as it may be adjusted from time to time as provided below.
1. Contractor shall submit to Engineer for acceptance (to the extent indicated in Paragraph 2.05) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times.
 2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 11.
- B. Contractor shall carry on the Work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No Work shall be delayed or postponed pending resolution

of any disputes or disagreements, or during any appeal process, except as permitted by Paragraph 16.04, or as Owner and Contractor may otherwise agree in writing.

4.05 *Delays in Contractor's Progress*

- A. If Owner, Engineer, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the Work, then Contractor shall be entitled to an equitable adjustment in the Contract Times and Contract Price. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
- B. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delay, disruption, or interference caused by or within the control of Contractor. Delay, disruption, and interference attributable to and within the control of a Subcontractor or Supplier shall be deemed to be within the control of Contractor.
- C. If Contractor's performance or progress is delayed, disrupted, or interfered with by unanticipated causes not the fault of and beyond the control of Owner, Contractor, and those for which they are responsible, then Contractor shall be entitled to an equitable adjustment in Contract Times. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times. Such an adjustment shall be Contractor's sole and exclusive remedy for the delays, disruption, and interference described in this paragraph. Causes of delay, disruption, or interference that may give rise to an adjustment in Contract Times under this paragraph include but are not limited to the following:
 - 1. severe and unavoidable natural catastrophes such as fires, floods, epidemics, and earthquakes;
 - 2. abnormal weather conditions;
 - 3. acts or failures to act of utility owners (other than those performing other work at or adjacent to the Site by arrangement with the Owner, as contemplated in Article 8); and
 - 4. acts of war or terrorism.
- D. Delays, disruption, and interference to the performance or progress of the Work resulting from the existence of a differing subsurface or physical condition, an Underground Facility that was not shown or indicated by the Contract Documents, or not shown or indicated with reasonable accuracy, and those resulting from Hazardous Environmental Conditions, are governed by Article 5.
- E. Paragraph 8.03 governs delays, disruption, and interference to the performance or progress of the Work resulting from the performance of certain other work at or adjacent to the Site.
- F. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for any delay, disruption, or interference if such delay is concurrent with a delay, disruption, or interference caused by or within the control of Contractor.
- G. Contractor must submit any Change Proposal seeking an adjustment in Contract Price or Contract Times under this paragraph within 30 days of the commencement of the delaying, disrupting, or interfering event.

ARTICLE 5 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

5.01 *Availability of Lands*

- A. Owner shall furnish the Site. Owner shall notify Contractor of any encumbrances or restrictions not of general application but specifically related to use of the Site with which Contractor must comply in performing the Work.
- B. Upon reasonable written request, Owner shall furnish Contractor with a current statement of record legal title and legal description of the lands upon which permanent improvements are to be made and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable Laws and Regulations.
- C. Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

5.02 *Use of Site and Other Areas*

A. *Limitation on Use of Site and Other Areas:*

- 1. Contractor shall confine construction equipment, temporary construction facilities, the storage of materials and equipment, and the operations of workers to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and such other adjacent areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for (a) damage to the Site; (b) damage to any such other adjacent areas used for Contractor's operations; (c) damage to any other adjacent land or areas; and (d) for injuries and losses sustained by the owners or occupants of any such land or areas; provided that such damage or injuries result from the performance of the Work or from other action or conduct of the Contractor or those for which Contractor is responsible.
- 2. If a damage or injury claim is made by the owner or occupant of any such land or area because of the performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible, Contractor shall (a) take immediate corrective or remedial action as required by Paragraph 7.12, or otherwise; (b) promptly attempt to settle the claim as to all parties through negotiations with such owner or occupant, or otherwise resolve the claim by arbitration or other dispute resolution proceeding, or at law; and (c) to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claim, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Engineer, or any other party indemnified hereunder to the extent caused directly or indirectly, in whole or in part by, or based upon, Contractor's performance of the Work, or because of other actions or conduct of the Contractor or those for which Contractor is responsible.

- B. *Removal of Debris During Performance of the Work:* During the progress of the Work the Contractor shall keep the Site and other adjacent areas free from accumulations of waste

materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable Laws and Regulations.

- C. *Cleaning*: Prior to Substantial Completion of the Work Contractor shall clean the Site and the Work and make it ready for utilization by Owner. At the completion of the Work Contractor shall remove from the Site and adjacent areas all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.
- D. *Loading of Structures*: Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent structures or land to stresses or pressures that will endanger them.

5.03 *Subsurface and Physical Conditions*

- A. *Reports and Drawings*: The Supplementary Conditions identify:
 - 1. those reports known to Owner of explorations and tests of subsurface conditions at or adjacent to the Site;
 - 2. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities); and
 - 3. Technical Data contained in such reports and drawings.
- B. *Reliance by Contractor on Technical Data Authorized*: Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely upon the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, with respect to:
 - 1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, and safety precautions and programs incident thereto; or
 - 2. other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or
 - 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions, or information.

5.04 *Differing Subsurface or Physical Conditions*

- A. *Notice by Contractor*: If Contractor believes that any subsurface or physical condition that is uncovered or revealed at the Site either:
 - 1. is of such a nature as to establish that any Technical Data on which Contractor is entitled to rely as provided in Paragraph 5.03 is materially inaccurate; or
 - 2. is of such a nature as to require a change in the Drawings or Specifications; or
 - 3. differs materially from that shown or indicated in the Contract Documents; or

4. is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents;

then Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except with respect to an emergency) until receipt of a written statement permitting Contractor to do so.

- B. *Engineer's Review:* After receipt of written notice as required by the preceding paragraph, Engineer will promptly review the subsurface or physical condition in question; determine the necessity of Owner's obtaining additional exploration or tests with respect to the condition; conclude whether the condition falls within any one or more of the differing site condition categories in Paragraph 5.04.A above; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the subsurface or physical condition in question and the need for any change in the Drawings or Specifications; and advise Owner in writing of Engineer's findings, conclusions, and recommendations.
- C. *Owner's Statement to Contractor Regarding Site Condition:* After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the subsurface or physical condition in question, addressing the resumption of Work in connection with such condition, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations, in whole or in part.
- D. *Possible Price and Times Adjustments:*
 1. Contractor shall be entitled to an equitable adjustment in Contract Price or Contract Times, or both, to the extent that the existence of a differing subsurface or physical condition, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost of, or time required for, performance of the Work; subject, however, to the following:
 - a. such condition must fall within any one or more of the categories described in Paragraph 5.04.A;
 - b. with respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03; and,
 - c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.
 2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times with respect to a subsurface or physical condition if:
 - a. Contractor knew of the existence of such condition at the time Contractor made a commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated contract, or otherwise; or

- b. the existence of such condition reasonably could have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas expressly required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such commitment; or
 - c. Contractor failed to give the written notice as required by Paragraph 5.04.A.
3. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
 4. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the subsurface or physical condition in question.

5.05 *Underground Facilities*

- A. *Contractor's Responsibilities:* The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities and/or adjacent to the Site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Supplementary Conditions:
1. Owner and Engineer do not warrant or guarantee the accuracy or completeness of any such information or data provided by others; and
 2. the cost of all of the following will be included in the Contract Price, and Contractor shall have full responsibility for:
 - a. reviewing and checking all information and data regarding existing Underground Facilities at the Site;
 - b. locating all Underground Facilities shown or indicated in the Contract Documents as being at the Site;
 - c. coordination of the Work with the owners (including Owner) of such Underground Facilities, during construction; and
 - d. the safety and protection of all existing Underground Facilities at the Site, and repairing any damage thereto resulting from the Work.
- B. *Notice by Contractor:* If Contractor believes that an Underground Facility that is uncovered or revealed at the Site was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, then Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any Work in connection therewith (except in an emergency as required by Paragraph 7.15), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer.
- C. *Engineer's Review:* Engineer will promptly review the Underground Facility and conclude whether such Underground Facility was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy; obtain any pertinent cost or schedule information from Contractor; prepare recommendations to Owner regarding the Contractor's resumption of Work in connection with the Underground Facility in question; determine the extent, if any, to which a change is required in the Drawings or Specifications

to reflect and document the consequences of the existence or location of the Underground Facility; and advise Owner in writing of Engineer's findings, conclusions, and recommendations. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.

D. *Owner's Statement to Contractor Regarding Underground Facility:* After receipt of Engineer's written findings, conclusions, and recommendations, Owner shall issue a written statement to Contractor (with a copy to Engineer) regarding the Underground Facility in question, addressing the resumption of Work in connection with such Underground Facility, indicating whether any change in the Drawings or Specifications will be made, and adopting or rejecting Engineer's written findings, conclusions, and recommendations in whole or in part.

E. *Possible Price and Times Adjustments:*

1. Contractor shall be entitled to an equitable adjustment in the Contract Price or Contract Times, or both, to the extent that any existing Underground Facility at the Site that was not shown or indicated in the Contract Documents, or was not shown or indicated with reasonable accuracy, or any related delay, disruption, or interference, causes an increase or decrease in Contractor's cost or time required for performance of the Work; subject, however, to the following:
 - a. Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated the existence or actual location of the Underground Facility in question;
 - b. With respect to Work that is paid for on a unit price basis, any adjustment in Contract Price will be subject to the provisions of Paragraph 13.03;
 - c. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times; and
 - d. Contractor gave the notice required in Paragraph 5.05.B.
2. If Owner and Contractor agree regarding Contractor's entitlement to and the amount or extent of any adjustment in the Contract Price or Contract Times, or both, then any such adjustment shall be set forth in a Change Order.
3. Contractor may submit a Change Proposal regarding its entitlement to or the amount or extent of any adjustment in the Contract Price or Contract Times, or both, no later than 30 days after Owner's issuance of the Owner's written statement to Contractor regarding the Underground Facility in question.

5.06 *Hazardous Environmental Conditions at Site*

A. *Reports and Drawings:* The Supplementary Conditions identify:

1. those reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at or adjacent to the Site; and
2. Technical Data contained in such reports and drawings.

B. *Reliance by Contractor on Technical Data Authorized:* Contractor may rely upon the accuracy of the Technical Data expressly identified in the Supplementary Conditions with respect to such reports and drawings, but such reports and drawings are not Contract Documents. If no such express identification has been made, then Contractor may rely on the accuracy of the Technical Data (as defined in Article 1) contained in any geotechnical or

environmental report prepared for the Project and made available to Contractor. Except for such reliance on Technical Data, Contractor may not rely upon or make any claim against Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors with respect to:

1. the completeness of such reports and drawings for Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Contractor and safety precautions and programs incident thereto; or
 2. other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings; or
 3. any Contractor interpretation of or conclusion drawn from any Technical Data or any such other data, interpretations, opinions or information.
- C. Contractor shall not be responsible for removing or remediating any Hazardous Environmental Condition encountered, uncovered, or revealed at the Site unless such removal or remediation is expressly identified in the Contract Documents to be within the scope of the Work.
- D. Contractor shall be responsible for controlling, containing, and duly removing all Constituents of Concern brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible and for any associated costs; and for the costs of removing and remediating any Hazardous Environmental Condition created by the presence of any such Constituents of Concern.
- E. If Contractor encounters, uncovers, or reveals a Hazardous Environmental Condition whose removal or remediation is not expressly identified in the Contract Documents as being within the scope of the Work, or if Contractor or anyone for whom Contractor is responsible creates a Hazardous Environmental Condition, then Contractor shall immediately: (1) secure or otherwise isolate such condition; (2) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 7.15); and (3) notify Owner and Engineer (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Engineer concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any. Promptly after consulting with Engineer, Owner shall take such actions as are necessary to permit Owner to timely obtain required permits and provide Contractor the written notice required by Paragraph 5.06.F. If Contractor or anyone for whom Contractor is responsible created the Hazardous Environmental Condition in question, then Owner may remove and remediate the Hazardous Environmental Condition, and impose a set-off against payments to account for the associated costs.
- F. Contractor shall not resume Work in connection with such Hazardous Environmental Condition or in any affected area until after Owner has obtained any required permits related thereto, and delivered written notice to Contractor either (1) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work, or (2) specifying any special conditions under which such Work may be resumed safely.
- G. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such Work stoppage or such special conditions under which Work is agreed to be resumed by Contractor, then within 30 days of Owner's written notice regarding the resumption of Work, Contractor may submit a Change Proposal, or Owner may impose a set-off.

- H. If after receipt of such written notice Contractor does not agree to resume such Work based on a reasonable belief it is unsafe, or does not agree to resume such Work under such special conditions, then Owner may order the portion of the Work that is in the area affected by such condition to be deleted from the Work, following the contractual change procedures in Article 11. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 8.
- I. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to a Hazardous Environmental Condition, provided that such Hazardous Environmental Condition (1) was not shown or indicated in the Drawings, Specifications, or other Contract Documents, identified as Technical Data entitled to limited reliance pursuant to Paragraph 5.06.B, or identified in the Contract Documents to be included within the scope of the Work, and (2) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.H shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- J. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the failure to control, contain, or remove a Constituent of Concern brought to the Site by Contractor or by anyone for whom Contractor is responsible, or to a Hazardous Environmental Condition created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 5.06.J shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- K. The provisions of Paragraphs 5.03, 5.04, and 5.05 do not apply to the presence of Constituents of Concern or to a Hazardous Environmental Condition uncovered or revealed at the Site.

ARTICLE 6 – BONDS AND INSURANCE

6.01 *Performance, Payment, and Other Bonds*

- A. Contractor shall furnish a performance bond and a payment bond, each in an amount at least equal to the Contract Price, as security for the faithful performance and payment of all of Contractor's obligations under the Contract. These bonds shall remain in effect until one year after the date when final payment becomes due or until completion of the correction period specified in Paragraph 15.08, whichever is later, except as provided otherwise by Laws or Regulations, the Supplementary Conditions, or other specific provisions of the Contract. Contractor shall also furnish such other bonds as are required by the Supplementary Conditions or other specific provisions of the Contract.
- B. All bonds shall be in the form prescribed by the Contract except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as

Acceptable Reinsuring Companies” as published in Circular 570 (as amended and supplemented) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. A bond signed by an agent or attorney-in-fact must be accompanied by a certified copy of that individual’s authority to bind the surety. The evidence of authority shall show that it is effective on the date the agent or attorney-in-fact signed the accompanying bond.

- C. Contractor shall obtain the required bonds from surety companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds in the required amounts.
- D. If the surety on a bond furnished by Contractor is declared bankrupt or becomes insolvent, or its right to do business is terminated in any state or jurisdiction where any part of the Project is located, or the surety ceases to meet the requirements above, then Contractor shall promptly notify Owner and Engineer and shall, within 20 days after the event giving rise to such notification, provide another bond and surety, both of which shall comply with the bond and surety requirements above.
- E. If Contractor has failed to obtain a required bond, Owner may exclude the Contractor from the Site and exercise Owner’s termination rights under Article 16.
- F. Upon request, Owner shall provide a copy of the payment bond to any Subcontractor, Supplier, or other person or entity claiming to have furnished labor or materials used in the performance of the Work.

6.02 Insurance—General Provisions

- A. Owner and Contractor shall obtain and maintain insurance as required in this Article and in the Supplementary Conditions.
- B. All insurance required by the Contract to be purchased and maintained by Owner or Contractor shall be obtained from insurance companies that are duly licensed or authorized, in the state or jurisdiction in which the Project is located, to issue insurance policies for the required limits and coverages. Unless a different standard is indicated in the Supplementary Conditions, all companies that provide insurance policies required under this Contract shall have an A.M. Best rating of A-VII or better.
- C. Contractor shall deliver to Owner, with copies to each named insured and additional insured (as identified in this Article, in the Supplementary Conditions, or elsewhere in the Contract), certificates of insurance establishing that Contractor has obtained and is maintaining the policies, coverages, and endorsements required by the Contract. Upon request by Owner or any other insured, Contractor shall also furnish other evidence of such required insurance, including but not limited to copies of policies and endorsements, and documentation of applicable self-insured retentions and deductibles. Contractor may block out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.
- D. Owner shall deliver to Contractor, with copies to each named insured and additional insured (as identified in this Article, the Supplementary Conditions, or elsewhere in the Contract), certificates of insurance establishing that Owner has obtained and is maintaining the policies, coverages, and endorsements required of Owner by the Contract (if any). Upon request by Contractor or any other insured, Owner shall also provide other evidence of such required insurance (if any), including but not limited to copies of policies and endorsements, and documentation of applicable self-insured retentions and deductibles.

Owner may block out (redact) any confidential premium or pricing information contained in any policy or endorsement furnished under this provision.

- E. Failure of Owner or Contractor to demand such certificates or other evidence of the other party's full compliance with these insurance requirements, or failure of Owner or Contractor to identify a deficiency in compliance from the evidence provided, shall not be construed as a waiver of the other party's obligation to obtain and maintain such insurance.
- F. If either party does not purchase or maintain all of the insurance required of such party by the Contract, such party shall notify the other party in writing of such failure to purchase prior to the start of the Work, or of such failure to maintain prior to any change in the required coverage.
- G. If Contractor has failed to obtain and maintain required insurance, Owner may exclude the Contractor from the Site, impose an appropriate set-off against payment, and exercise Owner's termination rights under Article 16.
- H. Without prejudice to any other right or remedy, if a party has failed to obtain required insurance, the other party may elect to obtain equivalent insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and the Contract Price shall be adjusted accordingly.
- I. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor or Contractor's interests.
- J. The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's liability under the indemnities granted to Owner and other individuals and entities in the Contract.

6.03 Contractor's Insurance

- A. *Workers' Compensation:* Contractor shall purchase and maintain workers' compensation and employer's liability insurance for:
 - 1. claims under workers' compensation, disability benefits, and other similar employee benefit acts.
 - 2. United States Longshoreman and Harbor Workers' Compensation Act and Jones Act coverage (if applicable).
 - 3. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees (by stop-gap endorsement in monopolist worker's compensation states).
 - 4. Foreign voluntary worker compensation (if applicable).
- B. *Commercial General Liability—Claims Covered:* Contractor shall purchase and maintain commercial general liability insurance, covering all operations by or on behalf of Contractor, on an occurrence basis, against:
 - 1. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees.
 - 2. claims for damages insured by reasonably available personal injury liability coverage.
 - 3. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom.

- C. *Commercial General Liability—Form and Content:* Contractor's commercial liability policy shall be written on a 1996 (or later) ISO commercial general liability form (occurrence form) and include the following coverages and endorsements:
1. Products and completed operations coverage:
 - a. Such insurance shall be maintained for three years after final payment.
 - b. Contractor shall furnish Owner and each other additional insured (as identified in the Supplementary Conditions or elsewhere in the Contract) evidence of continuation of such insurance at final payment and three years thereafter.
 2. Blanket contractual liability coverage, to the extent permitted by law, including but not limited to coverage of Contractor's contractual indemnity obligations in Paragraph 7.18.
 3. Broad form property damage coverage.
 4. Severability of interest.
 5. Underground, explosion, and collapse coverage.
 6. Personal injury coverage.
 7. Additional insured endorsements that include both ongoing operations and products and completed operations coverage through ISO Endorsements CG 20 10 10 01 and CG 20 37 10 01 (together); or CG 20 10 07 04 and CG 20 37 07 04 (together); or their equivalent.
 8. For design professional additional insureds, ISO Endorsement CG 20 32 07 04, "Additional Insured—Engineers, Architects or Surveyors Not Engaged by the Named Insured" or its equivalent.
- D. *Automobile liability:* Contractor shall purchase and maintain automobile liability insurance against claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance, or use of any motor vehicle. The automobile liability policy shall be written on an occurrence basis.
- E. *Umbrella or excess liability:* Contractor shall purchase and maintain umbrella or excess liability insurance written over the underlying employer's liability, commercial general liability, and automobile liability insurance described in the paragraphs above. Subject to industry standard exclusions, the coverage afforded shall follow form as to each and every one of the underlying policies.
- F. *Contractor's pollution liability insurance:* Contractor shall purchase and maintain a policy covering third-party injury and property damage claims, including clean-up costs, as a result of pollution conditions arising from Contractor's operations and completed operations. This insurance shall be maintained for no less than three years after final completion.
- G. *Additional insureds:* The Contractor's commercial general liability, automobile liability, umbrella or excess, and pollution liability policies shall include and list as additional insureds Owner and Engineer, and any individuals or entities identified in the Supplementary Conditions; include coverage for the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of all such additional insureds; and the insurance afforded to these additional insureds shall provide primary coverage for all claims covered thereby (including as applicable those arising from both ongoing and completed operations) on a non-contributory basis. Contractor shall obtain all necessary endorsements to support these requirements.

- H. *Contractor's professional liability insurance*: If Contractor will provide or furnish professional services under this Contract, through a delegation of professional design services or otherwise, then Contractor shall be responsible for purchasing and maintaining applicable professional liability insurance. This insurance shall provide protection against claims arising out of performance of professional design or related services, and caused by a negligent error, omission, or act for which the insured party is legally liable. It shall be maintained throughout the duration of the Contract and for a minimum of two years after Substantial Completion. If such professional design services are performed by a Subcontractor, and not by Contractor itself, then the requirements of this paragraph may be satisfied through the purchasing and maintenance of such insurance by such Subcontractor.
- I. *General provisions*: The policies of insurance required by this Paragraph 6.03 shall:
1. include at least the specific coverages provided in this Article.
 2. be written for not less than the limits of liability provided in this Article and in the Supplementary Conditions, or required by Laws or Regulations, whichever is greater.
 3. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least 10 days prior written notice has been given to Contractor. Within three days of receipt of any such written notice, Contractor shall provide a copy of the notice to Owner, Engineer, and each other insured under the policy.
 4. remain in effect at least until final payment (and longer if expressly required in this Article) and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work as a warranty or correction obligation, or otherwise, or returning to the Site to conduct other tasks arising from the Contract Documents.
 5. be appropriate for the Work being performed and provide protection from claims that may arise out of or result from Contractor's performance of the Work and Contractor's other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable.
- J. The coverage requirements for specific policies of insurance must be met by such policies, and not by reference to excess or umbrella insurance provided in other policies.

6.04 *Owner's Liability Insurance*

- A. In addition to the insurance required to be provided by Contractor under Paragraph 6.03, Owner, at Owner's option, may purchase and maintain at Owner's expense Owner's own liability insurance as will protect Owner against claims which may arise from operations under the Contract Documents.
- B. Owner's liability policies, if any, operate separately and independently from policies required to be provided by Contractor, and Contractor cannot rely upon Owner's liability policies for any of Contractor's obligations to the Owner, Engineer, or third parties.

6.05 *Property Insurance*

- A. *Builder's Risk*: Unless otherwise provided in the Supplementary Conditions, Contractor shall purchase and maintain builder's risk insurance upon the Work on a completed value basis, in the amount of the full insurable replacement cost thereof (subject to such deductible

amounts as may be provided in the Supplementary Conditions or required by Laws and Regulations). This insurance shall:

1. include the Owner and Contractor as named insureds, and all Subcontractors, and any individuals or entities required by the Supplementary Conditions to be insured under such builder's risk policy, as insureds or named insureds. For purposes of the remainder of this Paragraph 6.05, Paragraphs 6.06 and 6.07, and any corresponding Supplementary Conditions, the parties required to be insured shall collectively be referred to as "insureds."
2. be written on a builder's risk "all risk" policy form that shall at least include insurance for physical loss or damage to the Work, temporary buildings, falsework, and materials and equipment in transit, and shall insure against at least the following perils or causes of loss: fire; lightning; windstorm; riot; civil commotion; terrorism; vehicle impact; aircraft; smoke; theft; vandalism and malicious mischief; mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake; volcanic activity, and other earth movement; flood; collapse; explosion; debris removal; demolition occasioned by enforcement of Laws and Regulations; water damage (other than that caused by flood); and such other perils or causes of loss as may be specifically required by the Supplementary Conditions. If insurance against mechanical breakdown, boiler explosion, and artificially generated electric current; earthquake; volcanic activity, and other earth movement; or flood, are not commercially available under builder's risk policies, by endorsement or otherwise, such insurance may be provided through other insurance policies ascertainable to Owner and Contractor.
3. cover, as insured property, at least the following: (a) the Work and all materials, supplies, machinery, apparatus, equipment, fixtures, and other property of a similar nature that are to be incorporated into or used in the preparation, fabrication, construction, erection, or completion of the Work, including Owner-furnished or assigned property; (b) spare parts inventory required within the scope of the Contract; and (c) temporary works which are not intended to form part of the permanent constructed Work but which are intended to provide working access to the Site, or to the Work under construction, or which are intended to provide temporary support for the Work under construction, including scaffolding, form work, fences, shoring, falsework, and temporary structures.
4. cover expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects).
5. extend to cover damage or loss to insured property while in temporary storage at the Site or in a storage location outside the Site (but not including property stored at the premises of a manufacturer or Supplier).
6. extend to cover damage or loss to insured property while in transit.
7. allow for partial occupation or use of the Work by Owner, such that those portions of the Work that are not yet occupied or used by Owner shall remain covered by the builder's risk insurance.
8. allow for the waiver of the insurer's subrogation rights, as set forth below.
9. provide primary coverage for all losses and damages caused by the perils or causes of loss covered.
10. not include a co-insurance clause.

11. include an exception for ensuing losses from physical damage or loss with respect to any defective workmanship, design, or materials exclusions.
 12. include performance/hot testing and start-up.
 13. be maintained in effect, subject to the provisions herein regarding Substantial Completion and partial occupancy or use of the Work by Owner, until the Work is complete.
- B. *Notice of Cancellation or Change:* All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with this Paragraph 6.05 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 10 days prior written notice has been given to the purchasing policyholder. Within three days of receipt of any such written notice, the purchasing policyholder shall provide a copy of the notice to each other insured.
- C. *Deductibles:* The purchaser of any required builder's risk or property insurance shall pay for costs not covered because of the application of a policy deductible.
- D. *Partial Occupancy or Use by Owner:* If Owner will occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 15.04, then Owner (directly, if it is the purchaser of the builder's risk policy, or through Contractor) will provide notice of such occupancy or use to the builder's risk insurer. The builder's risk insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy; rather, those portions of the Work that are occupied or used by Owner may come off the builder's risk policy, while those portions of the Work not yet occupied or used by Owner shall remain covered by the builder's risk insurance.
- E. *Additional Insurance:* If Contractor elects to obtain other special insurance to be included in or supplement the builder's risk or property insurance policies provided under this Paragraph 6.05, it may do so at Contractor's expense.
- F. *Insurance of Other Property:* If the express insurance provisions of the Contract do not require or address the insurance of a property item or interest, such as tools, construction equipment, or other personal property owned by Contractor, a Subcontractor, or an employee of Contractor or a Subcontractor, then the entity or individual owning such property item will be responsible for deciding whether to insure it, and if so in what amount.

6.06 Waiver of Rights

- A. All policies purchased in accordance with Paragraph 6.05, expressly including the builder's risk policy, shall contain provisions to the effect that in the event of payment of any loss or damage the insurers will have no rights of recovery against any insureds thereunder, or against Engineer or its consultants, or their officers, directors, members, partners, employees, agents, consultants, or subcontractors. Owner and Contractor waive all rights against each other and the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the Work; and, in addition, waive all such rights against Engineer, its consultants, all Subcontractors, all individuals or entities identified in the Supplementary Conditions as insureds, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, under such policies for losses and damages so caused. None of

the above waivers shall extend to the rights that any party making such waiver may have to the proceeds of insurance held by Owner or Contractor as trustee or fiduciary, or otherwise payable under any policy so issued.

- B. Owner waives all rights against Contractor, Subcontractors, and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, for:
 - 1. loss due to business interruption, loss of use, or other consequential loss extending beyond direct physical loss or damage to Owner's property or the Work caused by, arising out of, or resulting from fire or other perils whether or not insured by Owner; and
 - 2. loss or damage to the completed Project or part thereof caused by, arising out of, or resulting from fire or other insured peril or cause of loss covered by any property insurance maintained on the completed Project or part thereof by Owner during partial occupancy or use pursuant to Paragraph 15.04, after Substantial Completion pursuant to Paragraph 15.03, or after final payment pursuant to Paragraph 15.06.
- C. Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 6.06.B shall contain provisions to the effect that in the event of payment of any such loss, damage, or consequential loss, the insurers will have no rights of recovery against Contractor, Subcontractors, or Engineer, or the officers, directors, members, partners, employees, agents, consultants, or subcontractors of each and any of them.
- D. Contractor shall be responsible for assuring that the agreement under which a Subcontractor performs a portion of the Work contains provisions whereby the Subcontractor waives all rights against Owner, Contractor, all individuals or entities identified in the Supplementary Conditions as insureds, the Engineer and its consultants, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by builder's risk insurance and any other property insurance applicable to the Work.

6.07 *Receipt and Application of Property Insurance Proceeds*

- A. Any insured loss under the builder's risk and other policies of insurance required by Paragraph 6.05 will be adjusted and settled with the named insured that purchased the policy. Such named insured shall act as fiduciary for the other insureds, and give notice to such other insureds that adjustment and settlement of a claim is in progress. Any other insured may state its position regarding a claim for insured loss in writing within 15 days after notice of such claim.
- B. Proceeds for such insured losses may be made payable by the insurer either jointly to multiple insureds, or to the named insured that purchased the policy in its own right and as fiduciary for other insureds, subject to the requirements of any applicable mortgage clause. A named insured receiving insurance proceeds under the builder's risk and other policies of insurance required by Paragraph 6.05 shall distribute such proceeds in accordance with such agreement as the parties in interest may reach, or as otherwise required under the dispute resolution provisions of this Contract or applicable Laws and Regulations.
- C. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the money so received applied on account thereof, and the Work and the cost thereof covered by Change Order, if needed.

ARTICLE 7 – CONTRACTOR’S RESPONSIBILITIES

7.01 *Supervision and Superintendence*

- A. Contractor shall supervise, inspect, and direct the Work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the Work in accordance with the Contract Documents. Contractor shall be solely responsible for the means, methods, techniques, sequences, and procedures of construction.
- B. At all times during the progress of the Work, Contractor shall assign a competent resident superintendent who shall not be replaced without written notice to Owner and Engineer except under extraordinary circumstances.

7.02 *Labor; Working Hours*

- A. Contractor shall provide competent, suitably qualified personnel to survey and lay out the Work and perform construction as required by the Contract Documents. Contractor shall at all times maintain good discipline and order at the Site.
- B. Except as otherwise required for the safety or protection of persons or the Work or property at the Site or adjacent thereto, and except as otherwise stated in the Contract Documents, all Work at the Site shall be performed during regular working hours, Monday through Friday. Contractor will not perform Work on a Saturday, Sunday, or any legal holiday. Contractor may perform Work outside regular working hours or on Saturdays, Sundays, or legal holidays only with Owner’s written consent, which will not be unreasonably withheld.

7.03 *Services, Materials, and Equipment*

- A. Unless otherwise specified in the Contract Documents, Contractor shall provide and assume full responsibility for all services, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities, and all other facilities and incidentals necessary for the performance, testing, start up, and completion of the Work, whether or not such items are specifically called for in the Contract Documents.
- B. All materials and equipment incorporated into the Work shall be of good quality and new, except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the Specifications shall expressly run to the benefit of Owner. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the source, kind, and quality of materials and equipment.
- C. All materials and equipment shall be stored, applied, installed, connected, erected, protected, used, cleaned, and conditioned in accordance with instructions of the applicable Supplier, except as otherwise may be provided in the Contract Documents.

7.04 *“Or Equals”*

- A. Whenever an item of material or equipment is specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular Supplier, the Contract Price has been based upon Contractor furnishing such item as specified. The specification or description of such an item is intended to establish the type, function, appearance, and quality required. Unless the specification or description contains or is followed by words reading that no like, equivalent, or “or equal” item is permitted, Contractor may request that Engineer authorize the use of other items of material or

equipment, or items from other proposed suppliers under the circumstances described below.

1. If Engineer in its sole discretion determines that an item of material or equipment proposed by Contractor is functionally equal to that named and sufficiently similar so that no change in related Work will be required, Engineer shall deem it an “or equal” item. For the purposes of this paragraph, a proposed item of material or equipment will be considered functionally equal to an item so named if:
 - a. in the exercise of reasonable judgment Engineer determines that:
 - 1) it is at least equal in materials of construction, quality, durability, appearance, strength, and design characteristics;
 - 2) it will reliably perform at least equally well the function and achieve the results imposed by the design concept of the completed Project as a functioning whole;
 - 3) it has a proven record of performance and availability of responsive service; and
 - 4) it is not objectionable to Owner.
 - b. Contractor certifies that, if approved and incorporated into the Work:
 - 1) there will be no increase in cost to the Owner or increase in Contract Times; and
 - 2) it will conform substantially to the detailed requirements of the item named in the Contract Documents.
- B. *Contractor’s Expense:* Contractor shall provide all data in support of any proposed “or equal” item at Contractor’s expense.
- C. *Engineer’s Evaluation and Determination:* Engineer will be allowed a reasonable time to evaluate each “or-equal” request. Engineer may require Contractor to furnish additional data about the proposed “or-equal” item. Engineer will be the sole judge of acceptability. No “or-equal” item will be ordered, furnished, installed, or utilized until Engineer’s review is complete and Engineer determines that the proposed item is an “or-equal”, which will be evidenced by an approved Shop Drawing or other written communication. Engineer will advise Contractor in writing of any negative determination.
- D. *Effect of Engineer’s Determination:* Neither approval nor denial of an “or-equal” request shall result in any change in Contract Price. The Engineer’s denial of an “or-equal” request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents.
- E. *Treatment as a Substitution Request:* If Engineer determines that an item of material or equipment proposed by Contractor does not qualify as an “or-equal” item, Contractor may request that Engineer consider the proposed item as a substitute pursuant to Paragraph 7.05.

7.05 Substitutes

- A. Unless the specification or description of an item of material or equipment required to be furnished under the Contract Documents contains or is followed by words reading that no substitution is permitted, Contractor may request that Engineer authorize the use of other items of material or equipment under the circumstances described below. To the extent

possible such requests shall be made before commencement of related construction at the Site.

1. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is functionally equivalent to that named and an acceptable substitute therefor. Engineer will not accept requests for review of proposed substitute items of material or equipment from anyone other than Contractor.
 2. The requirements for review by Engineer will be as set forth in Paragraph 7.05.B, as supplemented by the Specifications, and as Engineer may decide is appropriate under the circumstances.
 3. Contractor shall make written application to Engineer for review of a proposed substitute item of material or equipment that Contractor seeks to furnish or use. The application:
 - a. shall certify that the proposed substitute item will:
 - 1) perform adequately the functions and achieve the results called for by the general design,
 - 2) be similar in substance to that specified, and
 - 3) be suited to the same use as that specified.
 - b. will state:
 - 1) the extent, if any, to which the use of the proposed substitute item will necessitate a change in Contract Times,
 - 2) whether use of the proposed substitute item in the Work will require a change in any of the Contract Documents (or in the provisions of any other direct contract with Owner for other work on the Project) to adapt the design to the proposed substitute item, and
 - 3) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty.
 - c. will identify:
 - 1) all variations of the proposed substitute item from that specified, and
 - 2) available engineering, sales, maintenance, repair, and replacement services.
 - d. shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including but not limited to changes in Contract Price, shared savings, costs of redesign, and claims of other contractors affected by any resulting change.
- B. *Engineer's Evaluation and Determination:* Engineer will be allowed a reasonable time to evaluate each substitute request, and to obtain comments and direction from Owner. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No substitute will be ordered, furnished, installed, or utilized until Engineer's review is complete and Engineer determines that the proposed item is an acceptable substitute. Engineer's determination will be evidenced by a Field Order or a proposed Change Order accounting for the substitution itself and all related impacts, including changes in Contract Price or Contract Times. Engineer will advise Contractor in writing of any negative determination.

- C. *Special Guarantee*: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.
- D. *Reimbursement of Engineer's Cost*: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor. Whether or not Engineer approves a substitute so proposed or submitted by Contractor, Contractor shall reimburse Owner for the reasonable charges of Engineer for evaluating each such proposed substitute. Contractor shall also reimburse Owner for the reasonable charges of Engineer for making changes in the Contract Documents (or in the provisions of any other direct contract with Owner) resulting from the acceptance of each proposed substitute.
- E. *Contractor's Expense*: Contractor shall provide all data in support of any proposed substitute at Contractor's expense.
- F. *Effect of Engineer's Determination*: If Engineer approves the substitution request, Contractor shall execute the proposed Change Order and proceed with the substitution. The Engineer's denial of a substitution request shall be final and binding, and may not be reversed through an appeal under any provision of the Contract Documents. Contractor may challenge the scope of reimbursement costs imposed under Paragraph 7.05.D, by timely submittal of a Change Proposal.

7.06 *Concerning Subcontractors, Suppliers, and Others*

- A. Contractor may retain Subcontractors and Suppliers for the performance of parts of the Work. Such Subcontractors and Suppliers must be acceptable to Owner.
- B. Contractor shall retain specific Subcontractors, Suppliers, or other individuals or entities for the performance of designated parts of the Work if required by the Contract to do so.
- C. Subsequent to the submittal of Contractor's Bid or final negotiation of the terms of the Contract, Owner may not require Contractor to retain any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against which Contractor has reasonable objection.
- D. Prior to entry into any binding subcontract or purchase order, Contractor shall submit to Owner the identity of the proposed Subcontractor or Supplier (unless Owner has already deemed such proposed Subcontractor or Supplier acceptable, during the bidding process or otherwise). Such proposed Subcontractor or Supplier shall be deemed acceptable to Owner unless Owner raises a substantive, reasonable objection within five days.
- E. Owner may require the replacement of any Subcontractor, Supplier, or other individual or entity retained by Contractor to perform any part of the Work. Owner also may require Contractor to retain specific replacements; provided, however, that Owner may not require a replacement to which Contractor has a reasonable objection. If Contractor has submitted the identity of certain Subcontractors, Suppliers, or other individuals or entities for acceptance by Owner, and Owner has accepted it (either in writing or by failing to make written objection thereto), then Owner may subsequently revoke the acceptance of any such Subcontractor, Supplier, or other individual or entity so identified solely on the basis of substantive, reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity.
- F. If Owner requires the replacement of any Subcontractor, Supplier, or other individual or entity retained by Contractor to perform any part of the Work, then Contractor shall be entitled to an adjustment in Contract Price or Contract Times, or both, with respect to the

replacement; and Contractor shall initiate a Change Proposal for such adjustment within 30 days of Owner's requirement of replacement.

- G. No acceptance by Owner of any such Subcontractor, Supplier, or other individual or entity, whether initially or as a replacement, shall constitute a waiver of the right of Owner to the completion of the Work in accordance with the Contract Documents.
- H. On a monthly basis Contractor shall submit to Engineer a complete list of all Subcontractors and Suppliers having a direct contract with Contractor, and of all other Subcontractors and Suppliers known to Contractor at the time of submittal.
- I. Contractor shall be fully responsible to Owner and Engineer for all acts and omissions of the Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work just as Contractor is responsible for Contractor's own acts and omissions.
- J. Contractor shall be solely responsible for scheduling and coordinating the work of Subcontractors, Suppliers, and all other individuals or entities performing or furnishing any of the Work.
- K. Contractor shall restrict all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work from communicating with Engineer or Owner, except through Contractor or in case of an emergency, or as otherwise expressly allowed herein.
- L. The divisions and sections of the Specifications and the identifications of any Drawings shall not control Contractor in dividing the Work among Subcontractors or Suppliers or delineating the Work to be performed by any specific trade.
- M. All Work performed for Contractor by a Subcontractor or Supplier shall be pursuant to an appropriate contractual agreement that specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer.
- N. Owner may furnish to any Subcontractor or Supplier, to the extent practicable, information about amounts paid to Contractor on account of Work performed for Contractor by the particular Subcontractor or Supplier.
- O. Nothing in the Contract Documents:
 - 1. shall create for the benefit of any such Subcontractor, Supplier, or other individual or entity any contractual relationship between Owner or Engineer and any such Subcontractor, Supplier, or other individual or entity; nor
 - 2. shall create any obligation on the part of Owner or Engineer to pay or to see to the payment of any money due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.

7.07 *Patent Fees and Royalties*

- A. Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the Work or the incorporation in the Work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the Work and if, to the actual knowledge of Owner or Engineer, its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.

- B. To the fullest extent permitted by Laws and Regulations, Owner shall indemnify and hold harmless Contractor, and its officers, directors, members, partners, employees, agents, consultants, and subcontractors from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals, and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device specified in the Contract Documents, but not identified as being subject to payment of any license fee or royalty to others required by patent rights or copyrights.
- C. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the Work or resulting from the incorporation in the Work of any invention, design, process, product, or device not specified in the Contract Documents.

7.08 *Permits*

- A. Unless otherwise provided in the Contract Documents, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work which are applicable at the time of the submission of Contractor's Bid (or when Contractor became bound under a negotiated contract). Owner shall pay all charges of utility owners for connections for providing permanent service to the Work

7.09 *Taxes*

- A. Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Contractor in accordance with the Laws and Regulations of the place of the Project which are applicable during the performance of the Work.

7.10 *Laws and Regulations*

- A. Contractor shall give all notices required by and shall comply with all Laws and Regulations applicable to the performance of the Work. Except where otherwise expressly required by applicable Laws and Regulations, neither Owner nor Engineer shall be responsible for monitoring Contractor's compliance with any Laws or Regulations.
- B. If Contractor performs any Work or takes any other action knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear all resulting costs and losses, and shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such Work or other action. It shall not be Contractor's responsibility to make certain that the Work described in the Contract Documents is in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.

- C. Owner or Contractor may give notice to the other party of any changes after the submission of Contractor's Bid (or after the date when Contractor became bound under a negotiated contract) in Laws or Regulations having an effect on the cost or time of performance of the Work, including but not limited to changes in Laws or Regulations having an effect on procuring permits and on sales, use, value-added, consumption, and other similar taxes. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times resulting from such changes, then within 30 days of such notice Contractor may submit a Change Proposal, or Owner may initiate a Claim.

7.11 *Record Documents*

- A. Contractor shall maintain in a safe place at the Site one printed record copy of all Drawings, Specifications, Addenda, Change Orders, Work Change Directives, Field Orders, written interpretations and clarifications, and approved Shop Drawings. Contractor shall keep such record documents in good order and annotate them to show changes made during construction. These record documents, together with all approved Samples, will be available to Engineer for reference. Upon completion of the Work, Contractor shall deliver these record documents to Engineer.

7.12 *Safety and Protection*

- A. Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. Such responsibility does not relieve Subcontractors of their responsibility for the safety of persons or property in the performance of their work, nor for compliance with applicable safety Laws and Regulations. Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury, or loss to:
 - 1. all persons on the Site or who may be affected by the Work;
 - 2. all the Work and materials and equipment to be incorporated therein, whether in storage on or off the Site; and
 - 3. other property at the Site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, other work in progress, utilities, and Underground Facilities, not designated for removal, relocation, or replacement in the course of construction.
- B. Contractor shall comply with all applicable Laws and Regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall notify Owner; the owners of adjacent property, Underground Facilities, and other utilities; and other contractors and utility owners performing work at or adjacent to the Site, when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property or work in progress.
- C. Contractor shall comply with the applicable requirements of Owner's safety programs, if any. The Supplementary Conditions identify any Owner's safety programs that are applicable to the Work.
- D. Contractor shall inform Owner and Engineer of the specific requirements of Contractor's safety program with which Owner's and Engineer's employees and representatives must comply while at the Site.

- E. All damage, injury, or loss to any property referred to in Paragraph 7.12.A.2 or 7.12.A.3 caused, directly or indirectly, in whole or in part, by Contractor, any Subcontractor, Supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, shall be remedied by Contractor at its expense (except damage or loss attributable to the fault of Drawings or Specifications or to the acts or omissions of Owner or Engineer or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Contractor or any Subcontractor, Supplier, or other individual or entity directly or indirectly employed by any of them).
- F. Contractor's duties and responsibilities for safety and protection shall continue until such time as all the Work is completed and Engineer has issued a notice to Owner and Contractor in accordance with Paragraph 15.06.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).
- G. Contractor's duties and responsibilities for safety and protection shall resume whenever Contractor or any Subcontractor or Supplier returns to the Site to fulfill warranty or correction obligations, or to conduct other tasks arising from the Contract Documents.

7.13 *Safety Representative*

- A. Contractor shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

7.14 *Hazard Communication Programs*

- A. Contractor shall be responsible for coordinating any exchange of material safety data sheets or other hazard communication information required to be made available to or exchanged between or among employers at the Site in accordance with Laws or Regulations.

7.15 *Emergencies*

- A. In emergencies affecting the safety or protection of persons or the Work or property at the Site or adjacent thereto, Contractor is obligated to act to prevent threatened damage, injury, or loss. Contractor shall give Engineer prompt written notice if Contractor believes that any significant changes in the Work or variations from the Contract Documents have been caused hereby or are required as a result thereof. If Engineer determines that a change in the Contract Documents is required because of the action taken by Contractor in response to such an emergency, a Work Change Directive or Change Order will be issued.

7.16 *Shop Drawings, Samples, and Other Submittals*

- A. *Shop Drawing and Sample Submittal Requirements:*
 1. Before submitting a Shop Drawing or Sample, Contractor shall have:
 - a. reviewed and coordinated the Shop Drawing or Sample with other Shop Drawings and Samples and with the requirements of the Work and the Contract Documents;
 - b. determined and verified all field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

- c. determined and verified the suitability of all materials and equipment offered with respect to the indicated application, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the Work; and
 - d. determined and verified all information relative to Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto.
 2. Each submittal shall bear a stamp or specific written certification that Contractor has satisfied Contractor's obligations under the Contract Documents with respect to Contractor's review of that submittal, and that Contractor approves the submittal.
 3. With each submittal, Contractor shall give Engineer specific written notice of any variations that the Shop Drawing or Sample may have from the requirements of the Contract Documents. This notice shall be set forth in a written communication separate from the Shop Drawings or Sample submittal; and, in addition, in the case of Shop Drawings by a specific notation made on each Shop Drawing submitted to Engineer for review and approval of each such variation.
- B. *Submittal Procedures for Shop Drawings and Samples:* Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals. Each submittal will be identified as Engineer may require.
 1. *Shop Drawings:*
 - a. Contractor shall submit the number of copies required in the Specifications.
 - b. Data shown on the Shop Drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Engineer the services, materials, and equipment Contractor proposes to provide and to enable Engineer to review the information for the limited purposes required by Paragraph 7.16.D.
 2. *Samples:*
 - a. Contractor shall submit the number of Samples required in the Specifications.
 - b. Contractor shall clearly identify each Sample as to material, Supplier, pertinent data such as catalog numbers, the use for which intended and other data as Engineer may require to enable Engineer to review the submittal for the limited purposes required by Paragraph 7.16.D.
 3. Where a Shop Drawing or Sample is required by the Contract Documents or the Schedule of Submittals, any related Work performed prior to Engineer's review and approval of the pertinent submittal will be at the sole expense and responsibility of Contractor.
- C. *Other Submittals:* Contractor shall submit other submittals to Engineer in accordance with the accepted Schedule of Submittals, and pursuant to the applicable terms of the Specifications.
- D. *Engineer's Review:*
 1. Engineer will provide timely review of Shop Drawings and Samples in accordance with the Schedule of Submittals acceptable to Engineer. Engineer's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the Work, conform to the information given in the Contract

Documents and be compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents.

2. Engineer's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction or to safety precautions or programs incident thereto.
 3. Engineer's review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
 4. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for any variation from the requirements of the Contract Documents unless Contractor has complied with the requirements of Paragraph 7.16.A.3 and Engineer has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the Shop Drawing or Sample. Engineer will document any such approved variation from the requirements of the Contract Documents in a Field Order.
 5. Engineer's review and approval of a Shop Drawing or Sample shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 7.16.A and B.
 6. Engineer's review and approval of a Shop Drawing or Sample, or of a variation from the requirements of the Contract Documents, shall not, under any circumstances, change the Contract Times or Contract Price, unless such changes are included in a Change Order.
 7. Neither Engineer's receipt, review, acceptance or approval of a Shop Drawing, Sample, or other submittal shall result in such item becoming a Contract Document.
 8. Contractor shall perform the Work in compliance with the requirements and commitments set forth in approved Shop Drawings and Samples, subject to the provisions of Paragraph 7.16.D.4.
- E. *Resubmittal Procedures:*
1. Contractor shall make corrections required by Engineer and shall return the required number of corrected copies of Shop Drawings and submit, as required, new Samples for review and approval. Contractor shall direct specific attention in writing to revisions other than the corrections called for by Engineer on previous submittals.
 2. Contractor shall furnish required submittals with sufficient information and accuracy to obtain required approval of an item with no more than three submittals. Engineer will record Engineer's time for reviewing a fourth or subsequent submittal of a Shop Drawings, sample, or other item requiring approval, and Contractor shall be responsible for Engineer's charges to Owner for such time. Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges.
 3. If Contractor requests a change of a previously approved submittal item, Contractor shall be responsible for Engineer's charges to Owner for its review time, and Owner may impose a set-off against payments due to Contractor to secure reimbursement for such charges, unless the need for such change is beyond the control of Contractor.

7.17 *Contractor's General Warranty and Guarantee*

- A. Contractor warrants and guarantees to Owner that all Work will be in accordance with the Contract Documents and will not be defective. Engineer and its officers, directors,

members, partners, employees, agents, consultants, and subcontractors shall be entitled to rely on Contractor's warranty and guarantee.

- B. Contractor's warranty and guarantee hereunder excludes defects or damage caused by:
1. abuse, modification, or improper maintenance or operation by persons other than Contractor, Subcontractors, Suppliers, or any other individual or entity for whom Contractor is responsible; or
 2. normal wear and tear under normal usage.
- C. Contractor's obligation to perform and complete the Work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of Work that is not in accordance with the Contract Documents or a release of Contractor's obligation to perform the Work in accordance with the Contract Documents:
1. observations by Engineer;
 2. recommendation by Engineer or payment by Owner of any progress or final payment;
 3. the issuance of a certificate of Substantial Completion by Engineer or any payment related thereto by Owner;
 4. use or occupancy of the Work or any part thereof by Owner;
 5. any review and approval of a Shop Drawing or Sample submittal;
 6. the issuance of a notice of acceptability by Engineer;
 7. any inspection, test, or approval by others; or
 8. any correction of defective Work by Owner.
- D. If the Contract requires the Contractor to accept the assignment of a contract entered into by Owner, then the specific warranties, guarantees, and correction obligations contained in the assigned contract shall govern with respect to Contractor's performance obligations to Owner for the Work described in the assigned contract.

7.18 *Indemnification*

- A. To the fullest extent permitted by Laws and Regulations, and in addition to any other obligations of Contractor under the Contract or otherwise, Contractor shall indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to the performance of the Work, provided that any such claim, cost, loss, or damage is attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom but only to the extent caused by any negligent act or omission of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work or anyone for whose acts any of them may be liable.
- B. In any and all claims against Owner or Engineer or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the

indemnification obligation under Paragraph 7.18.A shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

- C. The indemnification obligations of Contractor under Paragraph 7.18.A shall not extend to the liability of Engineer and Engineer's officers, directors, members, partners, employees, agents, consultants and subcontractors arising out of:
 - 1. the preparation or approval of, or the failure to prepare or approve maps, Drawings, opinions, reports, surveys, Change Orders, designs, or Specifications; or
 - 2. giving directions or instructions, or failing to give them, if that is the primary cause of the injury or damage.

7.19 *Delegation of Professional Design Services*

- A. Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the Work or unless such services are required to carry out Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Contractor shall not be required to provide professional services in violation of applicable Law and Regulations.
- B. If professional design services or certifications by a design professional related to systems, materials, or equipment are specifically required of Contractor by the Contract Documents, Owner and Engineer will specify all performance and design criteria that such services must satisfy. Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, and other submittals prepared by such professional. Shop Drawings and other submittals related to the Work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Engineer.
- C. Owner and Engineer shall be entitled to rely upon the adequacy, accuracy, and completeness of the services, certifications, or approvals performed by such design professionals, provided Owner and Engineer have specified to Contractor all performance and design criteria that such services must satisfy.
- D. Pursuant to this paragraph, Engineer's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Engineer's review and approval of Shop Drawings and other submittals (except design calculations and design drawings) will be only for the purpose stated in Paragraph 7.16.D.1.
- E. Contractor shall not be responsible for the adequacy of the performance or design criteria specified by Owner or Engineer.

ARTICLE 8 – OTHER WORK AT THE SITE

8.01 *Other Work*

- A. In addition to and apart from the Work under the Contract Documents, the Owner may perform other work at or adjacent to the Site. Such other work may be performed by Owner's employees, or through contracts between the Owner and third parties. Owner

may also arrange to have third-party utility owners perform work on their utilities and facilities at or adjacent to the Site.

- B. If Owner performs other work at or adjacent to the Site with Owner's employees, or through contracts for such other work, then Owner shall give Contractor written notice thereof prior to starting any such other work. If Owner has advance information regarding the start of any utility work at or adjacent to the Site, Owner shall provide such information to Contractor.
- C. Contractor shall afford each other contractor that performs such other work, each utility owner performing other work, and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, and provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work. Contractor shall do all cutting, fitting, and patching of the Work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering such work; provided, however, that Contractor may cut or alter others' work with the written consent of Engineer and the others whose work will be affected.
- D. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 8, Contractor shall inspect such other work and promptly report to Engineer in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Contractor's Work. Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Contractor's Work except for latent defects and deficiencies in such other work.

8.02 *Coordination*

- A. If Owner intends to contract with others for the performance of other work at or adjacent to the Site, to perform other work at or adjacent to the Site with Owner's employees, or to arrange to have utility owners perform work at or adjacent to the Site, the following will be set forth in the Supplementary Conditions or provided to Contractor prior to the start of any such other work:
 - 1. the identity of the individual or entity that will have authority and responsibility for coordination of the activities among the various contractors;
 - 2. an itemization of the specific matters to be covered by such authority and responsibility; and
 - 3. the extent of such authority and responsibilities.
- B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

8.03 *Legal Relationships*

- A. If, in the course of performing other work at or adjacent to the Site for Owner, the Owner's employees, any other contractor working for Owner, or any utility owner causes damage to the Work or to the property of Contractor or its Subcontractors, or delays, disrupts, interferes with, or increases the scope or cost of the performance of the Work, through actions or inaction, then Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Contractor must submit any Change Proposal seeking an equitable adjustment in the Contract Price or the Contract Times under this

paragraph within 30 days of the damaging, delaying, disrupting, or interfering event. The entitlement to, and extent of, any such equitable adjustment shall take into account information (if any) regarding such other work that was provided to Contractor in the Contract Documents prior to the submittal of the Bid or the final negotiation of the terms of the Contract. When applicable, any such equitable adjustment in Contract Price shall be conditioned on Contractor assigning to Owner all Contractor's rights against such other contractor or utility owner with respect to the damage, delay, disruption, or interference that is the subject of the adjustment. Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Contractor's ability to complete the Work within the Contract Times.

- B. Contractor shall take reasonable and customary measures to avoid damaging, delaying, disrupting, or interfering with the work of Owner, any other contractor, or any utility owner performing other work at or adjacent to the Site. If Contractor fails to take such measures and as a result damages, delays, disrupts, or interferes with the work of any such other contractor or utility owner, then Owner may impose a set-off against payments due to Contractor, and assign to such other contractor or utility owner the Owner's contractual rights against Contractor with respect to the breach of the obligations set forth in this paragraph.
- C. When Owner is performing other work at or adjacent to the Site with Owner's employees, Contractor shall be liable to Owner for damage to such other work, and for the reasonable direct delay, disruption, and interference costs incurred by Owner as a result of Contractor's failure to take reasonable and customary measures with respect to Owner's other work. In response to such damage, delay, disruption, or interference, Owner may impose a set-off against payments due to Contractor.
- D. If Contractor damages, delays, disrupts, or interferes with the work of any other contractor, or any utility owner performing other work at or adjacent to the Site, through Contractor's failure to take reasonable and customary measures to avoid such impacts, or if any claim arising out of Contractor's actions, inactions, or negligence in performance of the Work at or adjacent to the Site is made by any such other contractor or utility owner against Contractor, Owner, or Engineer, then Contractor shall (1) promptly attempt to settle the claim as to all parties through negotiations with such other contractor or utility owner, or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law, and (2) indemnify and hold harmless Owner and Engineer, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against any such claims, and against all costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such damage, delay, disruption, or interference.

ARTICLE 9 – OWNER'S RESPONSIBILITIES

9.01 *Communications to Contractor*

- A. Except as otherwise provided in these General Conditions, Owner shall issue all communications to Contractor through Engineer.

9.02 *Replacement of Engineer*

- A. Owner may at its discretion appoint an engineer to replace Engineer, provided Contractor makes no reasonable objection to the replacement engineer. The replacement engineer's status under the Contract Documents shall be that of the former Engineer.

9.03 *Furnish Data*

- A. Owner shall promptly furnish the data required of Owner under the Contract Documents.

9.04 *Pay When Due*

- A. Owner shall make payments to Contractor when they are due as provided in the Agreement.

9.05 *Lands and Easements; Reports, Tests, and Drawings*

- A. Owner's duties with respect to providing lands and easements are set forth in Paragraph 5.01.
- B. Owner's duties with respect to providing engineering surveys to establish reference points are set forth in Paragraph 4.03.
- C. Article 5 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of conditions at the Site, and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

9.06 *Insurance*

- A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 6.

9.07 *Change Orders*

- A. Owner's responsibilities with respect to Change Orders are set forth in Article 11.

9.08 *Inspections, Tests, and Approvals*

- A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 14.02.B.

9.09 *Limitations on Owner's Responsibilities*

- A. The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety preparations and programs incident thereto, or for any failure of Contractor to comply with laws and Regulations applicable to the performance of the Work. Owner will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

9.10 *Undisclosed Hazardous Environmental Condition*

- A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 5.06.

9.11 *Evidence of Financial Arrangements*

- A. Upon request of Contractor, Owner shall furnish Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents (including obligations under proposed changes in the Work).

9.12 *Safety Programs*

- A. While at the Site, Owner's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Owner has been informed.
- B. Owner shall furnish copies of any applicable Owner safety programs to Contractor.

ARTICLE 10 – ENGINEER’S STATUS DURING CONSTRUCTION

10.01 *Owner’s Representative*

- A. Engineer will be Owner’s representative during the construction period. The duties and responsibilities and the limitations of authority of Engineer as Owner’s representative during construction are set forth in the Contract.

10.02 *Visits to Site*

- A. Engineer will make visits to the Site at intervals appropriate to the various stages of construction as Engineer deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Contractor’s executed Work. Based on information obtained during such visits and observations, Engineer, for the benefit of Owner, will determine, in general, if the Work is proceeding in accordance with the Contract Documents. Engineer will not be required to make exhaustive or continuous inspections on the Site to check the quality or quantity of the Work. Engineer’s efforts will be directed toward providing for Owner a greater degree of confidence that the completed Work will conform generally to the Contract Documents. On the basis of such visits and observations, Engineer will keep Owner informed of the progress of the Work and will endeavor to guard Owner against defective Work.
- B. Engineer’s visits and observations are subject to all the limitations on Engineer’s authority and responsibility set forth in Paragraph 10.08. Particularly, but without limitation, during or as a result of Engineer’s visits or observations of Contractor’s Work, Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor’s means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work.

10.03 *Project Representative*

- A. If Owner and Engineer have agreed that Engineer will furnish a Resident Project Representative to represent Engineer at the Site and assist Engineer in observing the progress and quality of the Work, then the authority and responsibilities of any such Resident Project Representative will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 10.08. If Owner designates another representative or agent to represent Owner at the Site who is not Engineer’s consultant, agent, or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Supplementary Conditions.

10.04 *Rejecting Defective Work*

- A. Engineer has the authority to reject Work in accordance with Article 14.

10.05 *Shop Drawings, Change Orders and Payments*

- A. Engineer’s authority, and limitations thereof, as to Shop Drawings and Samples, are set forth in Paragraph 7.16.
- B. Engineer’s authority, and limitations thereof, as to design calculations and design drawings submitted in response to a delegation of professional design services, if any, are set forth in Paragraph 7.19.
- C. Engineer’s authority as to Change Orders is set forth in Article 11.

D. Engineer's authority as to Applications for Payment is set forth in Article 15.

10.06 *Determinations for Unit Price Work*

A. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor as set forth in Paragraph 13.03.

10.07 *Decisions on Requirements of Contract Documents and Acceptability of Work*

A. Engineer will render decisions regarding the requirements of the Contract Documents, and judge the acceptability of the Work, pursuant to the specific procedures set forth herein for initial interpretations, Change Proposals, and acceptance of the Work. In rendering such decisions and judgments, Engineer will not show partiality to Owner or Contractor, and will not be liable to Owner, Contractor, or others in connection with any proceedings, interpretations, decisions, or judgments conducted or rendered in good faith.

10.08 *Limitations on Engineer's Authority and Responsibilities*

A. Neither Engineer's authority or responsibility under this Article 10 or under any other provision of the Contract, nor any decision made by Engineer in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Engineer, shall create, impose, or give rise to any duty in contract, tort, or otherwise owed by Engineer to Contractor, any Subcontractor, any Supplier, any other individual or entity or to any surety for or employee or agent of any of them.

B. Engineer will not supervise, direct, control, or have authority over or be responsible for Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Contractor to comply with Laws and Regulations applicable to the performance of the Work. Engineer will not be responsible for Contractor's failure to perform the Work in accordance with the Contract Documents.

C. Engineer will not be responsible for the acts or omissions of Contractor or of any Subcontractor, any Supplier, or of any other individual or entity performing any of the Work.

D. Engineer's review of the final Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 15.06.A will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals, that the results certified indicate compliance with the Contract Documents.

E. The limitations upon authority and responsibility set forth in this Paragraph 10.08 shall also apply to the Resident Project Representative, if any.

10.09 *Compliance with Safety Program*

A. While at the Site, Engineer's employees and representatives will comply with the specific applicable requirements of Owner's and Contractor's safety programs (if any) of which Engineer has been informed.

ARTICLE 11 – AMENDING THE CONTRACT DOCUMENTS; CHANGES IN THE WORK

11.01 *Amending and Supplementing Contract Documents*

- A. The Contract Documents may be amended or supplemented by a Change Order, a Work Change Directive, or a Field Order.
1. *Change Orders:*
 - a. If an amendment or supplement to the Contract Documents includes a change in the Contract Price or the Contract Times, such amendment or supplement must be set forth in a Change Order. A Change Order also may be used to establish amendments and supplements of the Contract Documents that do not affect the Contract Price or Contract Times.
 - b. Owner and Contractor may amend those terms and conditions of the Contract Documents that do not involve (1) the performance or acceptability of the Work, (2) the design (as set forth in the Drawings, Specifications, or otherwise), or (3) other engineering or technical matters, without the recommendation of the Engineer. Such an amendment shall be set forth in a Change Order.
 2. *Work Change Directives:* A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the modification ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order, following negotiations by the parties as to the Work Change Directive's effect, if any, on the Contract Price and Contract Times; or, if negotiations are unsuccessful, by a determination under the terms of the Contract Documents governing adjustments, expressly including Paragraph 11.04 regarding change of Contract Price. Contractor must submit any Change Proposal seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 30 days after the completion of the Work set out in the Work Change Directive. Owner must submit any Claim seeking an adjustment of the Contract Price or the Contract Times, or both, no later than 60 days after issuance of the Work Change Directive.
 3. *Field Orders:* Engineer may authorize minor changes in the Work if the changes do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Such changes will be accomplished by a Field Order and will be binding on Owner and also on Contractor, which shall perform the Work involved promptly. If Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, then before proceeding with the Work at issue, Contractor shall submit a Change Proposal as provided herein.

11.02 *Owner-Authorized Changes in the Work*

- A. Without invalidating the Contract and without notice to any surety, Owner may, at any time or from time to time, order additions, deletions, or revisions in the Work. Such changes shall be supported by Engineer's recommendation, to the extent the change involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters. Such changes may be accomplished by a Change Order, if Owner and Contractor have agreed as to the effect, if any, of the changes on Contract Times or Contract Price; or by a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved; or, in the case of a deletion in the Work, promptly cease construction activities with respect to such deleted Work. Added or revised Work shall be performed under the applicable conditions of the

Contract Documents. Nothing in this paragraph shall obligate Contractor to undertake work that Contractor reasonably concludes cannot be performed in a manner consistent with Contractor's safety obligations under the Contract Documents or Laws and Regulations.

11.03 *Unauthorized Changes in the Work*

- A. Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents, as amended, modified, or supplemented, except in the case of an emergency as provided in Paragraph 7.15 or in the case of uncovering Work as provided in Paragraph 14.05.

11.04 *Change of Contract Price*

- A. The Contract Price may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Price shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment of Contract Price shall comply with the provisions of Article 12.
- B. An adjustment in the Contract Price will be determined as follows:
 - 1. where the Work involved is covered by unit prices contained in the Contract Documents, then by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 13.03); or
 - 2. where the Work involved is not covered by unit prices contained in the Contract Documents, then by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 11.04.C.2); or
 - 3. where the Work involved is not covered by unit prices contained in the Contract Documents and the parties do not reach mutual agreement to a lump sum, then on the basis of the Cost of the Work (determined as provided in Paragraph 13.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 11.04.C).
- C. *Contractor's Fee:* When applicable, the Contractor's fee for overhead and profit shall be determined as follows:
 - 1. a mutually acceptable fixed fee; or
 - 2. if a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the Cost of the Work:
 - a. for costs incurred under Paragraphs 13.01.B.1 and 13.01.B.2, the Contractor's fee shall be 15 percent;
 - b. for costs incurred under Paragraph 13.01.B.3, the Contractor's fee shall be five percent;
 - c. where one or more tiers of subcontracts are on the basis of Cost of the Work plus a fee and no fixed fee is agreed upon, the intent of Paragraphs 11.01.C.2.a and 11.01.C.2.b is that the Contractor's fee shall be based on: (1) a fee of 15 percent of the costs incurred under Paragraphs 13.01.A.1 and 13.01.A.2 by the Subcontractor that actually performs the Work, at whatever tier, and (2) with respect to Contractor itself and to any Subcontractors of a tier higher than that of the Subcontractor that actually performs the Work, a fee of five percent of the amount (fee plus underlying costs incurred) attributable to the next lower tier Subcontractor; provided, however, that for any such subcontracted work the

maximum total fee to be paid by Owner shall be no greater than 27 percent of the costs incurred by the Subcontractor that actually performs the work;

- d. no fee shall be payable on the basis of costs itemized under Paragraphs 13.01.B.4, 13.01.B.5, and 13.01.C;
- e. the amount of credit to be allowed by Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Contractor's fee by an amount equal to five percent of such net decrease; and
- f. when both additions and credits are involved in any one change, the adjustment in Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 11.04.C.2.a through 11.04.C.2.e, inclusive.

11.05 *Change of Contract Times*

- A. The Contract Times may only be changed by a Change Order. Any Change Proposal for an adjustment in the Contract Times shall comply with the provisions of Paragraph 11.06. Any Claim for an adjustment in the Contract Times shall comply with the provisions of Article 12.
- B. An adjustment of the Contract Times shall be subject to the limitations set forth in Paragraph 4.05, concerning delays in Contractor's progress.

11.06 *Change Proposals*

- A. Contractor shall submit a Change Proposal to Engineer to request an adjustment in the Contract Times or Contract Price; appeal an initial decision by Engineer concerning the requirements of the Contract Documents or relating to the acceptability of the Work under the Contract Documents; contest a set off against payment due; or seek other relief under the Contract. The Change Proposal shall specify any proposed change in Contract Times or Contract Price, or both, or other proposed relief, and explain the reason for the proposed change, with citations to any governing or applicable provisions of the Contract Documents.
 - 1. *Procedures:* Contractor shall submit each Change Proposal to Engineer promptly (but in no event later than 30 days) after the start of the event giving rise thereto, or after such initial decision. The Contractor shall submit supporting data, including the proposed change in Contract Price or Contract Time (if any), to the Engineer and Owner within 15 days after the submittal of the Change Proposal. The supporting data shall be accompanied by a written statement that the supporting data are accurate and complete, and that any requested time or price adjustment is the entire adjustment to which Contractor believes it is entitled as a result of said event. Engineer will advise Owner regarding the Change Proposal, and consider any comments or response from Owner regarding the Change Proposal.
 - 2. *Engineer's Action:* Engineer will review each Change Proposal and, within 30 days after receipt of the Contractor's supporting data, either deny the Change Proposal in whole, approve it in whole, or deny it in part and approve it in part. Such actions shall be in writing, with a copy provided to Owner and Contractor. If Engineer does not take action on the Change Proposal within 30 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of Engineer's inaction the Change Proposal is deemed denied, thereby commencing the time for appeal of the denial under Article 12.

3. *Binding Decision*: Engineer's decision will be final and binding upon Owner and Contractor, unless Owner or Contractor appeals the decision by filing a Claim under Article 12.
- B. *Resolution of Certain Change Proposals*: If the Change Proposal does not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters, then Engineer will notify the parties that the Engineer is unable to resolve the Change Proposal. For purposes of further resolution of such a Change Proposal, such notice shall be deemed a denial, and Contractor may choose to seek resolution under the terms of Article 12.

11.07 Execution of Change Orders

- A. Owner and Contractor shall execute appropriate Change Orders covering:
1. changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for Work actually performed in accordance with a Work Change Directive;
 2. changes in Contract Price resulting from an Owner set-off, unless Contractor has duly contested such set-off;
 3. changes in the Work which are: (a) ordered by Owner pursuant to Paragraph 11.02, (b) required because of Owner's acceptance of defective Work under Paragraph 14.04 or Owner's correction of defective Work under Paragraph 14.07, or (c) agreed to by the parties, subject to the need for Engineer's recommendation if the change in the Work involves the design (as set forth in the Drawings, Specifications, or otherwise), or other engineering or technical matters; and
 4. changes in the Contract Price or Contract Times, or other changes, which embody the substance of any final and binding results under Paragraph 11.06, or Article 12.
- B. If Owner or Contractor refuses to execute a Change Order that is required to be executed under the terms of this Paragraph 11.07, it shall be deemed to be of full force and effect, as if fully executed.

11.08 Notification to Surety

- A. If the provisions of any bond require notice to be given to a surety of any change affecting the general scope of the Work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times), the giving of any such notice will be Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

ARTICLE 12 – CLAIMS

12.01 Claims

- A. *Claims Process*: The following disputes between Owner and Contractor shall be submitted to the Claims process set forth in this Article:
1. Appeals by Owner or Contractor of Engineer's decisions regarding Change Proposals;
 2. Owner demands for adjustments in the Contract Price or Contract Times, or other relief under the Contract Documents; and

3. Disputes that Engineer has been unable to address because they do not involve the design (as set forth in the Drawings, Specifications, or otherwise), the acceptability of the Work, or other engineering or technical matters.
- B. *Submittal of Claim:* The party submitting a Claim shall deliver it directly to the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto; in the case of appeals regarding Change Proposals within 30 days of the decision under appeal. The party submitting the Claim shall also furnish a copy to the Engineer, for its information only. The responsibility to substantiate a Claim shall rest with the party making the Claim. In the case of a Claim by Contractor seeking an increase in the Contract Times or Contract Price, or both, Contractor shall certify that the Claim is made in good faith, that the supporting data are accurate and complete, and that to the best of Contractor's knowledge and belief the amount of time or money requested accurately reflects the full amount to which Contractor is entitled.
- C. *Review and Resolution:* The party receiving a Claim shall review it thoroughly, giving full consideration to its merits. The two parties shall seek to resolve the Claim through the exchange of information and direct negotiations. The parties may extend the time for resolving the Claim by mutual agreement. All actions taken on a Claim shall be stated in writing and submitted to the other party, with a copy to Engineer.
- D. *Mediation:*
1. At any time after initiation of a Claim, Owner and Contractor may mutually agree to mediation of the underlying dispute. The agreement to mediate shall stay the Claim submittal and response process.
 2. If Owner and Contractor agree to mediation, then after 60 days from such agreement, either Owner or Contractor may unilaterally terminate the mediation process, and the Claim submittal and decision process shall resume as of the date of the termination. If the mediation proceeds but is unsuccessful in resolving the dispute, the Claim submittal and decision process shall resume as of the date of the conclusion of the mediation, as determined by the mediator.
 3. Owner and Contractor shall each pay one-half of the mediator's fees and costs.
- E. *Partial Approval:* If the party receiving a Claim approves the Claim in part and denies it in part, such action shall be final and binding unless within 30 days of such action the other party invokes the procedure set forth in Article 17 for final resolution of disputes.
- F. *Denial of Claim:* If efforts to resolve a Claim are not successful, the party receiving the Claim may deny it by giving written notice of denial to the other party. If the receiving party does not take action on the Claim within 90 days, then either Owner or Contractor may at any time thereafter submit a letter to the other party indicating that as a result of the inaction, the Claim is deemed denied, thereby commencing the time for appeal of the denial. A denial of the Claim shall be final and binding unless within 30 days of the denial the other party invokes the procedure set forth in Article 17 for the final resolution of disputes.
- G. *Final and Binding Results:* If the parties reach a mutual agreement regarding a Claim, whether through approval of the Claim, direct negotiations, mediation, or otherwise; or if a Claim is approved in part and denied in part, or denied in full, and such actions become final and binding; then the results of the agreement or action on the Claim shall be incorporated in a Change Order to the extent they affect the Contract, including the Work, the Contract Times, or the Contract Price.

ARTICLE 13 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

13.01 *Cost of the Work*

- A. *Purposes for Determination of Cost of the Work:* The term Cost of the Work means the sum of all costs necessary for the proper performance of the Work at issue, as further defined below. The provisions of this Paragraph 13.01 are used for two distinct purposes:
1. To determine Cost of the Work when Cost of the Work is a component of the Contract Price, under cost-plus-fee, time-and-materials, or other cost-based terms; or
 2. To determine the value of a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price. When the value of any such adjustment is determined on the basis of Cost of the Work, Contractor is entitled only to those additional or incremental costs required because of the change in the Work or because of the event giving rise to the adjustment.
- B. *Costs Included:* Except as otherwise may be agreed to in writing by Owner, costs included in the Cost of the Work shall be in amounts no higher than those prevailing in the locality of the Project, shall not include any of the costs itemized in Paragraph 13.01.C, and shall include only the following items:
1. Payroll costs for employees in the direct employ of Contractor in the performance of the Work under schedules of job classifications agreed upon by Owner and Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time on the Work. Payroll costs for employees not employed full time on the Work shall be apportioned on the basis of their time spent on the Work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, and vacation and holiday pay applicable thereto. The expenses of performing Work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.
 2. Cost of all materials and equipment furnished and incorporated in the Work, including costs of transportation and storage thereof, and Suppliers' field services required in connection therewith. All cash discounts shall accrue to Contractor unless Owner deposits funds with Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates, and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Contractor shall make provisions so that they may be obtained.
 3. Payments made by Contractor to Subcontractors for Work performed by Subcontractors. If required by Owner, Contractor shall obtain competitive bids from subcontractors acceptable to Owner and Contractor and shall deliver such bids to Owner, who will then determine, with the advice of Engineer, which bids, if any, will be acceptable. If any subcontract provides that the Subcontractor is to be paid on the basis of Cost of the Work plus a fee, the Subcontractor's Cost of the Work and fee shall be determined in the same manner as Contractor's Cost of the Work and fee as provided in this Paragraph 13.01.
 4. Costs of special consultants (including but not limited to engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the Work.

5. Supplemental costs including the following:
- a. The proportion of necessary transportation, travel, and subsistence expenses of Contractor's employees incurred in discharge of duties connected with the Work.
 - b. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the Site, and hand tools not owned by the workers, which are consumed in the performance of the Work, and cost, less market value, of such items used but not consumed which remain the property of Contractor.
 - c. Rentals of all construction equipment and machinery, and the parts thereof, whether rented from Contractor or others in accordance with rental agreements approved by Owner with the advice of Engineer, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the Work.
 - d. Sales, consumer, use, and other similar taxes related to the Work, and for which Contractor is liable, as imposed by Laws and Regulations.
 - e. Deposits lost for causes other than negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.
 - f. Losses and damages (and related expenses) caused by damage to the Work, not compensated by insurance or otherwise, sustained by Contractor in connection with the performance of the Work (except losses and damages within the deductible amounts of property insurance established in accordance with Paragraph 6.05), provided such losses and damages have resulted from causes other than the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the Cost of the Work for the purpose of determining Contractor's fee.
 - g. The cost of utilities, fuel, and sanitary facilities at the Site.
 - h. Minor expenses such as communication service at the Site, express and courier services, and similar petty cash items in connection with the Work.
 - i. The costs of premiums for all bonds and insurance that Contractor is required by the Contract Documents to purchase and maintain.

C. *Costs Excluded:* The term Cost of the Work shall not include any of the following items:

1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expeditors, timekeepers, clerks, and other personnel employed by Contractor, whether at the Site or in Contractor's principal or branch office for general administration of the Work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 13.01.B.1 or specifically covered by Paragraph 13.01.B.4. The payroll costs and other compensation excluded here are to be considered administrative costs covered by the Contractor's fee.

2. Expenses of Contractor's principal and branch offices other than Contractor's office at the Site.
 3. Any part of Contractor's capital expenses, including interest on Contractor's capital employed for the Work and charges against Contractor for delinquent payments.
 4. Costs due to the negligence of Contractor, any Subcontractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective Work, disposal of materials or equipment wrongly supplied, and making good any damage to property.
 5. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraph 13.01.B.
- D. *Contractor's Fee:* When the Work as a whole is performed on the basis of cost-plus, Contractor's fee shall be determined as set forth in the Agreement. When the value of any Work covered by a Change Order, Change Proposal, Claim, set-off, or other adjustment in Contract Price is determined on the basis of Cost of the Work, Contractor's fee shall be determined as set forth in Paragraph 11.04.C.
- E. *Documentation:* Whenever the Cost of the Work for any purpose is to be determined pursuant to this Article 13, Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Engineer an itemized cost breakdown together with supporting data.

13.02 Allowances

- A. It is understood that Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the Work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.
- B. *Cash Allowances:* Contractor agrees that:
1. the cash allowances include the cost to Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the Site, and all applicable taxes; and
 2. Contractor's costs for unloading and handling on the Site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.
- C. *Contingency Allowance:* Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.
- D. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Contractor on account of Work covered by allowances, and the Contract Price shall be correspondingly adjusted.

13.03 Unit Price Work

- A. Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

- B. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Payments to Contractor for Unit Price Work will be based on actual quantities.
- C. Each unit price will be deemed to include an amount considered by Contractor to be adequate to cover Contractor's overhead and profit for each separately identified item.
- D. Engineer will determine the actual quantities and classifications of Unit Price Work performed by Contractor. Engineer will review with Contractor the Engineer's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment or otherwise). Engineer's written decision thereon will be final and binding (except as modified by Engineer to reflect changed factual conditions or more accurate data) upon Owner and Contractor, subject to the provisions of the following paragraph.
- E. Within 30 days of Engineer's written decision under the preceding paragraph, Contractor may submit a Change Proposal, or Owner may file a Claim, seeking an adjustment in the Contract Price if:
 1. the quantity of any item of Unit Price Work performed by Contractor differs materially and significantly from the estimated quantity of such item indicated in the Agreement;
 2. there is no corresponding adjustment with respect to any other item of Work; and
 3. Contractor believes that it is entitled to an increase in Contract Price as a result of having incurred additional expense or Owner believes that Owner is entitled to a decrease in Contract Price, and the parties are unable to agree as to the amount of any such increase or decrease.

ARTICLE 14 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

14.01 *Access to Work*

- A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and authorities having jurisdiction will have access to the Site and the work at reasonable times for their observation, inspection, and testing. Contractor shall provide them proper and safe conditions for such access and advise them of Contractor's safety procedures and programs so that they may comply therewith as applicable.

14.02 *Tests, Inspections, and Approvals*

- A. Contractor shall give Engineer timely notice of readiness of the Work (or specific parts thereof) for all required inspections and tests, and shall cooperate with inspection and testing personnel to facilitate required inspections and tests.
- B. Owner shall retain and pay for the services of an independent inspector, testing laboratory, or other qualified individual or entity to perform all inspections and tests expressly required by the Contract Documents to be furnished and paid for by Owner, except that costs incurred in connection with tests or inspections of covered Work shall be governed by the provisions of Paragraph 14.05.
- C. If Laws or Regulations of any public body having jurisdiction require any Work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Contractor shall assume full responsibility for arranging

and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Engineer the required certificates of inspection or approval.

- D. Contractor shall be responsible for arranging, obtaining, and paying for all inspections and tests required:
1. by the Contract Documents, unless the Contract Documents expressly allocate responsibility for a specific inspection or test to Owner;
 2. to attain Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work;
 3. by manufacturers of equipment furnished under the Contract Documents;
 4. for testing, adjusting, and balancing of mechanical, electrical, and other equipment to be incorporated into the Work; and
 5. for acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work.

Such inspections and tests shall be performed by independent inspectors, testing laboratories, or other qualified individuals or entities acceptable to Owner and Engineer.

- E. If the Contract Documents require the Work (or part thereof) to be approved by Owner, Engineer, or another designated individual or entity, then Contractor shall assume full responsibility for arranging and obtaining such approval.
- F. If any Work (or the work of others) that is to be inspected, tested, or approved is covered by Contractor without written concurrence of Engineer, Contractor shall, if requested by Engineer, uncover such Work for observation. Such uncovering shall be at Contractor's expense unless Contractor had given Engineer timely notice of Contractor's intention to cover the same and Engineer had not acted with reasonable promptness in response to such notice.

14.03 Defective Work

- A. *Contractor's Obligation:* It is Contractor's obligation to assure that the Work is not defective.
- B. *Engineer's Authority:* Engineer has the authority to determine whether Work is defective, and to reject defective Work.
- C. *Notice of Defects:* Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor.
- D. *Correction, or Removal and Replacement:* Promptly after receipt of written notice of defective Work, Contractor shall correct all such defective Work, whether or not fabricated, installed, or completed, or, if Engineer has rejected the defective Work, remove it from the Project and replace it with Work that is not defective.
- E. *Preservation of Warranties:* When correcting defective Work, Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said Work.
- F. *Costs and Damages:* In addition to its correction, removal, and replacement obligations with respect to defective Work, Contractor shall pay all claims, costs, losses, and damages arising out of or relating to defective Work, including but not limited to the cost of the inspection, testing, correction, removal, replacement, or reconstruction of such defective Work, fines levied against Owner by governmental authorities because the Work is

defective, and the costs of repair or replacement of work of others resulting from defective Work. Prior to final payment, if Owner and Contractor are unable to agree as to the measure of such claims, costs, losses, and damages resulting from defective Work, then Owner may impose a reasonable set-off against payments due under Article 15.

14.04 *Acceptance of Defective Work*

- A. If, instead of requiring correction or removal and replacement of defective Work, Owner prefers to accept it, Owner may do so (subject, if such acceptance occurs prior to final payment, to Engineer's confirmation that such acceptance is in general accord with the design intent and applicable engineering principles, and will not endanger public safety). Contractor shall pay all claims, costs, losses, and damages attributable to Owner's evaluation of and determination to accept such defective Work (such costs to be approved by Engineer as to reasonableness), and for the diminished value of the Work to the extent not otherwise paid by Contractor. If any such acceptance occurs prior to final payment, the necessary revisions in the Contract Documents with respect to the Work shall be incorporated in a Change Order. If the parties are unable to agree as to the decrease in the Contract Price, reflecting the diminished value of Work so accepted, then Owner may impose a reasonable set-off against payments due under Article 15. If the acceptance of defective Work occurs after final payment, Contractor shall pay an appropriate amount to Owner.

14.05 *Uncovering Work*

- A. Engineer has the authority to require special inspection or testing of the Work, whether or not the Work is fabricated, installed, or completed.
- B. If any Work is covered contrary to the written request of Engineer, then Contractor shall, if requested by Engineer, uncover such Work for Engineer's observation, and then replace the covering, all at Contractor's expense.
- C. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, then Contractor, at Engineer's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Engineer may require, that portion of the Work in question, and provide all necessary labor, material, and equipment.
1. If it is found that the uncovered Work is defective, Contractor shall be responsible for all claims, costs, losses, and damages arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and pending Contractor's full discharge of this responsibility the Owner shall be entitled to impose a reasonable set-off against payments due under Article 15.
 2. If the uncovered Work is not found to be defective, Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, then Contractor may submit a Change Proposal within 30 days of the determination that the Work is not defective.

14.06 *Owner May Stop the Work*

- A. If the Work is defective, or Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the Work in such a way that the completed Work will conform to the Contract Documents, then Owner may order Contractor to stop

the Work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the Work shall not give rise to any duty on the part of Owner to exercise this right for the benefit of Contractor, any Subcontractor, any Supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

14.07 *Owner May Correct Defective Work*

- A. If Contractor fails within a reasonable time after written notice from Engineer to correct defective Work, or to remove and replace rejected Work as required by Engineer, or if Contractor fails to perform the Work in accordance with the Contract Documents, or if Contractor fails to comply with any other provision of the Contract Documents, then Owner may, after seven days written notice to Contractor, correct or remedy any such deficiency.
- B. In exercising the rights and remedies under this Paragraph 14.07, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Contractor from all or part of the Site, take possession of all or part of the Work and suspend Contractor's services related thereto, and incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere. Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other contractors, and Engineer and Engineer's consultants access to the Site to enable Owner to exercise the rights and remedies under this paragraph.
- C. All claims, costs, losses, and damages incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 14.07 will be charged against Contractor as set-offs against payments due under Article 15. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Contractor's defective Work.
- D. Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the Work attributable to the exercise by Owner of Owner's rights and remedies under this Paragraph 14.07.

ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

15.01 *Progress Payments*

- A. *Basis for Progress Payments:* The Schedule of Values established as provided in Article 2 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Engineer. Progress payments on account of Unit Price Work will be based on the number of units completed during the pay period, as determined under the provisions of Paragraph 13.03. Progress payments for cost-based Work will be based on Cost of the Work completed by Contractor during the pay period.
- B. *Applications for Payments:*
 1. At least 20 days before the date established in the Agreement for each progress payment (but not more often than once a month), Contractor shall submit to Engineer for review an Application for Payment filled out and signed by Contractor covering the Work completed as of the date of the Application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at the Site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment free and clear of all Liens, and evidence that the materials and equipment are covered by

appropriate property insurance, a warehouse bond, or other arrangements to protect Owner's interest therein, all of which must be satisfactory to Owner.

2. Beginning with the second Application for Payment, each Application shall include an affidavit of Contractor stating that all previous progress payments received on account of the Work have been applied on account to discharge Contractor's legitimate obligations associated with prior Applications for Payment.
3. The amount of retainage with respect to progress payments will be as stipulated in the Agreement.

C. *Review of Applications:*

1. Engineer will, within 10 days after receipt of each Application for Payment, including each resubmittal, either indicate in writing a recommendation of payment and present the Application to Owner, or return the Application to Contractor indicating in writing Engineer's reasons for refusing to recommend payment. In the latter case, Contractor may make the necessary corrections and resubmit the Application.
2. Engineer's recommendation of any payment requested in an Application for Payment will constitute a representation by Engineer to Owner, based on Engineer's observations of the executed Work as an experienced and qualified design professional, and on Engineer's review of the Application for Payment and the accompanying data and schedules, that to the best of Engineer's knowledge, information and belief:
 - a. the Work has progressed to the point indicated;
 - b. the quality of the Work is generally in accordance with the Contract Documents (subject to an evaluation of the Work as a functioning whole prior to or upon Substantial Completion, the results of any subsequent tests called for in the Contract Documents, a final determination of quantities and classifications for Unit Price Work under Paragraph 13.03, and any other qualifications stated in the recommendation); and
 - c. the conditions precedent to Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Engineer's responsibility to observe the Work.
3. By recommending any such payment Engineer will not thereby be deemed to have represented that:
 - a. inspections made to check the quality or the quantity of the Work as it has been performed have been exhaustive, extended to every aspect of the Work in progress, or involved detailed inspections of the Work beyond the responsibilities specifically assigned to Engineer in the Contract; or
 - b. there may not be other matters or issues between the parties that might entitle Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Contractor.
4. Neither Engineer's review of Contractor's Work for the purposes of recommending payments nor Engineer's recommendation of any payment, including final payment, will impose responsibility on Engineer:
 - a. to supervise, direct, or control the Work, or

- b. for the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or
 - c. for Contractor's failure to comply with Laws and Regulations applicable to Contractor's performance of the Work, or
 - d. to make any examination to ascertain how or for what purposes Contractor has used the money paid on account of the Contract Price, or
 - e. to determine that title to any of the Work, materials, or equipment has passed to Owner free and clear of any Liens.
5. Engineer may refuse to recommend the whole or any part of any payment if, in Engineer's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 15.01.C.2.
6. Engineer will recommend reductions in payment (set-offs) necessary in Engineer's opinion to protect Owner from loss because:
- a. the Work is defective, requiring correction or replacement;
 - b. the Contract Price has been reduced by Change Orders;
 - c. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible; or
 - e. Engineer has actual knowledge of the occurrence of any of the events that would constitute a default by Contractor and therefore justify termination for cause under the Contract Documents.
- D. *Payment Becomes Due:*
- 1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended (subject to any Owner set-offs) will become due and when due will be paid by Owner to Contractor.
- E. *Reductions in Payment by Owner:*
- 1. In addition to any reductions in payment (set-offs) recommended by Engineer, Owner is entitled to impose a set-off against payment based on any of the following:
 - a. claims have been made against Owner on account of Contractor's conduct in the performance or furnishing of the Work, or Owner has incurred costs, losses, or damages on account of Contractor's conduct in the performance or furnishing of the Work, including but not limited to claims, costs, losses, or damages from workplace injuries, adjacent property damage, non-compliance with Laws and Regulations, and patent infringement;
 - b. Contractor has failed to take reasonable and customary measures to avoid damage, delay, disruption, and interference with other work at or adjacent to the Site;
 - c. Contractor has failed to provide and maintain required bonds or insurance;
 - d. Owner has been required to remove or remediate a Hazardous Environmental Condition for which Contractor is responsible;

- e. Owner has incurred extra charges or engineering costs related to submittal reviews, evaluations of proposed substitutes, tests and inspections, or return visits to manufacturing or assembly facilities;
 - f. the Work is defective, requiring correction or replacement;
 - g. Owner has been required to correct defective Work in accordance with Paragraph 14.07, or has accepted defective Work pursuant to Paragraph 14.04;
 - h. the Contract Price has been reduced by Change Orders;
 - i. an event that would constitute a default by Contractor and therefore justify a termination for cause has occurred;
 - j. liquidated damages have accrued as a result of Contractor's failure to achieve Milestones, Substantial Completion, or final completion of the Work;
 - k. Liens have been filed in connection with the Work, except where Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such Liens;
 - l. there are other items entitling Owner to a set-off against the amount recommended.
2. If Owner imposes any set-off against payment, whether based on its own knowledge or on the written recommendations of Engineer, Owner will give Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and the specific amount of the reduction, and promptly pay Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Contractor, if Contractor remedies the reasons for such action. The reduction imposed shall be binding on Contractor unless it duly submits a Change Proposal contesting the reduction.
 3. Upon a subsequent determination that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 15.01 C.1 and subject to interest as provided in the Agreement.

15.02 *Contractor's Warranty of Title*

- A. Contractor warrants and guarantees that title to all Work, materials, and equipment furnished under the Contract will pass to Owner free and clear of (1) all Liens and other title defects, and (2) all patent, licensing, copyright, or royalty obligations, no later than seven days after the time of payment by Owner.

15.03 *Substantial Completion*

- A. When Contractor considers the entire Work ready for its intended use Contractor shall notify Owner and Engineer in writing that the entire Work is substantially complete and request that Engineer issue a certificate of Substantial Completion. Contractor shall at the same time submit to Owner and Engineer an initial draft of punch list items to be completed or corrected before final payment.
- B. Promptly after Contractor's notification, Owner, Contractor, and Engineer shall make an inspection of the Work to determine the status of completion. If Engineer does not consider the Work substantially complete, Engineer will notify Contractor in writing giving the reasons therefor.

- C. If Engineer considers the Work substantially complete, Engineer will deliver to Owner a preliminary certificate of Substantial Completion which shall fix the date of Substantial Completion. Engineer shall attach to the certificate a punch list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the preliminary certificate during which to make written objection to Engineer as to any provisions of the certificate or attached punch list. If, after considering the objections to the provisions of the preliminary certificate, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the preliminary certificate to Owner, notify Contractor in writing that the Work is not substantially complete, stating the reasons therefor. If Owner does not object to the provisions of the certificate, or if despite consideration of Owner's objections Engineer concludes that the Work is substantially complete, then Engineer will, within said 14 days, execute and deliver to Owner and Contractor a final certificate of Substantial Completion (with a revised punch list of items to be completed or corrected) reflecting such changes from the preliminary certificate as Engineer believes justified after consideration of any objections from Owner.
- D. At the time of receipt of the preliminary certificate of Substantial Completion, Owner and Contractor will confer regarding Owner's use or occupancy of the Work following Substantial Completion, review the builder's risk insurance policy with respect to the end of the builder's risk coverage, and confirm the transition to coverage of the Work under a permanent property insurance policy held by Owner. Unless Owner and Contractor agree otherwise in writing, Owner shall bear responsibility for security, operation, protection of the Work, property insurance, maintenance, heat and utilities upon Owner's use or occupancy of the Work.
- E. After Substantial Completion the Contractor shall promptly begin work on the punch list of items to be completed or corrected prior to final payment. In appropriate cases Contractor may submit monthly Applications for Payment for completed punch list items, following the progress payment procedures set forth above.
- F. Owner shall have the right to exclude Contractor from the Site after the date of Substantial Completion subject to allowing Contractor reasonable access to remove its property and complete or correct items on the punch list.

15.04 *Partial Use or Occupancy*

- A. Prior to Substantial Completion of all the Work, Owner may use or occupy any substantially completed part of the Work which has specifically been identified in the Contract Documents, or which Owner, Engineer, and Contractor agree constitutes a separately functioning and usable part of the Work that can be used by Owner for its intended purpose without significant interference with Contractor's performance of the remainder of the Work, subject to the following conditions:
1. At any time Owner may request in writing that Contractor permit Owner to use or occupy any such part of the Work that Owner believes to be substantially complete. If and when Contractor agrees that such part of the Work is substantially complete, Contractor, Owner, and Engineer will follow the procedures of Paragraph 15.03.A through E for that part of the Work.
 2. At any time Contractor may notify Owner and Engineer in writing that Contractor considers any such part of the Work substantially complete and request Engineer to issue a certificate of Substantial Completion for that part of the Work.

3. Within a reasonable time after either such request, Owner, Contractor, and Engineer shall make an inspection of that part of the Work to determine its status of completion. If Engineer does not consider that part of the Work to be substantially complete, Engineer will notify Owner and Contractor in writing giving the reasons therefor. If Engineer considers that part of the Work to be substantially complete, the provisions of Paragraph 15.03 will apply with respect to certification of Substantial Completion of that part of the Work and the division of responsibility in respect thereof and access thereto.
4. No use or occupancy or separate operation of part of the Work may occur prior to compliance with the requirements of Paragraph 6.05 regarding builder's risk or other property insurance.

15.05 *Final Inspection*

- A. Upon written notice from Contractor that the entire Work or an agreed portion thereof is complete, Engineer will promptly make a final inspection with Owner and Contractor and will notify Contractor in writing of all particulars in which this inspection reveals that the Work, or agreed portion thereof, is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

15.06 *Final Payment*

A. *Application for Payment:*

1. After Contractor has, in the opinion of Engineer, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance, certificates of inspection, annotated record documents (as provided in Paragraph 7.11), and other documents, Contractor may make application for final payment.
2. The final Application for Payment shall be accompanied (except as previously delivered) by:
 - a. all documentation called for in the Contract Documents;
 - b. consent of the surety, if any, to final payment;
 - c. satisfactory evidence that all title issues have been resolved such that title to all Work, materials, and equipment has passed to Owner free and clear of any Liens or other title defects, or will so pass upon final payment.
 - d. a list of all disputes that Contractor believes are unsettled; and
 - e. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien rights arising out of the Work, and of Liens filed in connection with the Work.
3. In lieu of the releases or waivers of Liens specified in Paragraph 15.06.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (a) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (b) all payrolls, material and equipment bills, and other indebtedness connected with the Work for which Owner might in any way be responsible, or which might in any way result in liens or other burdens on Owner's property, have been paid or otherwise satisfied. If any Subcontractor or Supplier fails to furnish such a release or receipt in full, Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner

against any Lien, or Owner at its option may issue joint checks payable to Contractor and specified Subcontractors and Suppliers.

B. *Engineer's Review of Application and Acceptance:*

1. If, on the basis of Engineer's observation of the Work during construction and final inspection, and Engineer's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Engineer is satisfied that the Work has been completed and Contractor's other obligations under the Contract have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of final payment and present the Application for Payment to Owner for payment. Such recommendation shall account for any set-offs against payment that are necessary in Engineer's opinion to protect Owner from loss for the reasons stated above with respect to progress payments. At the same time Engineer will also give written notice to Owner and Contractor that the Work is acceptable, subject to the provisions of Paragraph 15.07. Otherwise, Engineer will return the Application for Payment to Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Contractor shall make the necessary corrections and resubmit the Application for Payment.

C. *Completion of Work:* The Work is complete (subject to surviving obligations) when it is ready for final payment as established by the Engineer's written recommendation of final payment.

D. *Payment Becomes Due:* Thirty days after the presentation to Owner of the final Application for Payment and accompanying documentation, the amount recommended by Engineer (less any further sum Owner is entitled to set off against Engineer's recommendation, including but not limited to set-offs for liquidated damages and set-offs allowed under the provisions above with respect to progress payments) will become due and shall be paid by Owner to Contractor.

15.07 *Waiver of Claims*

A. The making of final payment will not constitute a waiver by Owner of claims or rights against Contractor. Owner expressly reserves claims and rights arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 15.05, from Contractor's failure to comply with the Contract Documents or the terms of any special guarantees specified therein, from outstanding Claims by Owner, or from Contractor's continuing obligations under the Contract Documents.

B. The acceptance of final payment by Contractor will constitute a waiver by Contractor of all claims and rights against Owner other than those pending matters that have been duly submitted or appealed under the provisions of Article 17.

15.08 *Correction Period*

A. If within one year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents, or by any specific provision of the Contract Documents), any Work is found to be defective, or if the repair of any damages to the Site, adjacent areas that Contractor has arranged to use through construction easements or otherwise, and other adjacent areas used by Contractor as permitted by Laws and Regulations, is found to be defective, then Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

1. correct the defective repairs to the Site or such other adjacent areas;
 2. correct such defective Work;
 3. if the defective Work has been rejected by Owner, remove it from the Project and replace it with Work that is not defective, and
 4. satisfactorily correct or repair or remove and replace any damage to other Work, to the work of others, or to other land or areas resulting therefrom.
- B. If Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective Work corrected or repaired or may have the rejected Work removed and replaced. Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others).
- C. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the Work, the correction period for that item may start to run from an earlier date if so provided in the Specifications.
- D. Where defective Work (and damage to other Work resulting therefrom) has been corrected or removed and replaced under this paragraph, the correction period hereunder with respect to such Work will be extended for an additional period of one year after such correction or removal and replacement has been satisfactorily completed.
- E. Contractor's obligations under this paragraph are in addition to all other obligations and warranties. The provisions of this paragraph shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

ARTICLE 16 – SUSPENSION OF WORK AND TERMINATION

16.01 *Owner May Suspend Work*

- A. At any time and without cause, Owner may suspend the Work or any portion thereof for a period of not more than 90 consecutive days by written notice to Contractor and Engineer. Such notice will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be entitled to an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension. Any Change Proposal seeking such adjustments shall be submitted no later than 30 days after the date fixed for resumption of Work.

16.02 *Owner May Terminate for Cause*

- A. The occurrence of any one or more of the following events will constitute a default by Contractor and justify termination for cause:
1. Contractor's persistent failure to perform the Work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule);
 2. Failure of Contractor to perform or otherwise to comply with a material term of the Contract Documents;

3. Contractor's disregard of Laws or Regulations of any public body having jurisdiction; or
 4. Contractor's repeated disregard of the authority of Owner or Engineer.
- B. If one or more of the events identified in Paragraph 16.02.A occurs, then after giving Contractor (and any surety) ten days written notice that Owner is considering a declaration that Contractor is in default and termination of the contract, Owner may proceed to:
1. declare Contractor to be in default, and give Contractor (and any surety) notice that the Contract is terminated; and
 2. enforce the rights available to Owner under any applicable performance bond.
- C. Subject to the terms and operation of any applicable performance bond, if Owner has terminated the Contract for cause, Owner may exclude Contractor from the Site, take possession of the Work, incorporate in the Work all materials and equipment stored at the Site or for which Owner has paid Contractor but which are stored elsewhere, and complete the Work as Owner may deem expedient.
- D. Owner may not proceed with termination of the Contract under Paragraph 16.02.B if Contractor within seven days of receipt of notice of intent to terminate begins to correct its failure to perform and proceeds diligently to cure such failure.
- E. If Owner proceeds as provided in Paragraph 16.02.B, Contractor shall not be entitled to receive any further payment until the Work is completed. If the unpaid balance of the Contract Price exceeds the cost to complete the Work, including all related claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals) sustained by Owner, such excess will be paid to Contractor. If the cost to complete the Work including such related claims, costs, losses, and damages exceeds such unpaid balance, Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this paragraph, Owner shall not be required to obtain the lowest price for the Work performed.
- F. Where Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Contractor then existing or which may thereafter accrue, or any rights or remedies of Owner against Contractor or any surety under any payment bond or performance bond. Any retention or payment of money due Contractor by Owner will not release Contractor from liability.
- G. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 6.01.A, the provisions of that bond shall govern over any inconsistent provisions of Paragraphs 16.02.B and 16.02.D.

16.03 *Owner May Terminate For Convenience*

- A. Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents

in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and

3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
- B. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

16.04 *Contractor May Stop Work or Terminate*

- A. If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in Paragraph 16.03.
- B. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

ARTICLE 17 – FINAL RESOLUTION OF DISPUTES

17.01 *Methods and Procedures*

- A. *Disputes Subject to Final Resolution:* The following disputed matters are subject to final resolution under the provisions of this Article:
1. A timely appeal of an approval in part and denial in part of a Claim, or of a denial in full; and
 2. Disputes between Owner and Contractor concerning the Work or obligations under the Contract Documents, and arising after final payment has been made.
- B. *Final Resolution of Disputes:* For any dispute subject to resolution under this Article, Owner or Contractor may:
1. elect in writing to invoke the dispute resolution process provided for in the Supplementary Conditions; or
 2. agree with the other party to submit the dispute to another dispute resolution process; or
 3. if no dispute resolution process is provided for in the Supplementary Conditions or mutually agreed to, give written notice to the other party of the intent to submit the dispute to a court of competent jurisdiction. All parties waive their rights to a trial by jury.

ARTICLE 18 – MISCELLANEOUS

18.01 *Giving Notice*

- A. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:
 - 1. delivered in person, by a commercial courier service or otherwise, to the individual or to a member of the firm or to an officer of the corporation for which it is intended; or
 - 2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the sender of the notice.

18.02 *Computation of Times*

- A. When any period of time is referred to in the Contract by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

18.03 *Cumulative Remedies*

- A. The duties and obligations imposed by these General Conditions and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by Laws or Regulations, by special warranty or guarantee, or by other provisions of the Contract. The provisions of this paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

18.04 *Limitation of Damages*

- A. With respect to any and all Change Proposals, Claims, disputes subject to final resolution, and other matters at issue, neither the Owner nor Engineer, nor any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors, shall be liable to Contractor for any claims, costs, losses, or damages sustained by Contractor on or in connection with any other project or anticipated project.

18.05 *No Waiver*

- A. A party's non-enforcement of any provision shall not constitute a waiver of that provision, nor shall it affect the enforceability of that provision or of the remainder of this Contract.

18.06 *Survival of Obligations*

- A. All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract, as well as all continuing obligations indicated in the Contract, will survive final payment, completion, and acceptance of the Work or termination or completion of the Contract or termination of the services of Contractor.

18.07 *Controlling Law*

- A. This Contract is to be governed by the law of the state in which the Project is located.

18.08 *Headings*

- A. Article and paragraph headings are inserted for convenience only and do not constitute parts of these General Conditions.

SUPPLEMENTARY GENERAL CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract, EJCDC® C-700 (2013 Edition). All provisions that are not so amended or supplemented remain in full force and effect.

The terms used in these Supplementary Conditions have the meanings stated in the General Conditions. Additional terms used in these Supplementary Conditions have the meanings stated below, which are applicable to both the singular and plural thereof.

The address system used in these Supplementary Conditions is the same as the address system used in the General Conditions, with the prefix "SC" added thereto.

SC-2.02 Copies of Documents

SC-2.02.A. Amend the first sentence of Paragraph 2.02.A. to read as follows:

Owner shall furnish to Contractor [3] copies of the Contract Documents (including one fully executed counterpart of the Agreement).

ARTICLE 5 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS

SC-5.03 Subsurface and Physical Conditions

SC 5.03 Delete Paragraphs 5.03.A and 5.03.B in their entirety and insert the following:

A. No reports of explorations or tests of subsurface conditions at or adjacent to the Site, or drawings of physical conditions relating to existing surface or subsurface structures at the Site, are known to Owner.

SC 5.06 Delete Paragraphs 5.06.A and 5.06.B in their entirety and insert the following:

A. No reports or drawings related to Hazardous Environmental Conditions at the Site are known to Owner.

B. Not Used.

ARTICLE 6 – BONDS AND INSURANCE

SC-6.01 Performance, Payment, and Other Bonds

Add the following paragraphs immediately after Paragraph 6.01A

The minimum bonding requirements are as follows:

- A. A bid guarantee from each bidder equivalent to five percent of the bid price. The "bid guarantee" must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual instruments as may be required within the time specified.
- B. A performance bond on the part of the contractor for 100 percent of the contract price. A

NOT FOR BIDDING

“performance bond” is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.

- C. A payment bond on the part of the contractor for 100 percent of the contract price. A “payment bond” is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

SC-6.02 Insurance—General Provisions

SC-6.02 Add the following paragraph immediately after Paragraph 6.02.B:

1. Contractor may obtain worker’s compensation insurance from an insurance company that has not been rated by A.M. Best, provided that such company (a) is domiciled in the state in which the project is located, (b) is certified or authorized as a worker’s compensation insurance provider by the appropriate state agency, and (c) has been accepted to provide worker’s compensation insurance for similar projects by the state within the last 12 months.

SC-6.03 Contractor’s Liability Insurance

SC 6.03 Add the following new paragraph immediately after Paragraph 6.03.J:

K. The limits of liability for the insurance required by Paragraph 6.03 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations:

1. Workers’ Compensation, and related coverages under Paragraphs 6.03.A.1 and A.2 of the General Conditions:

State:	Statutory
Federal, if applicable (e.g., Longshoreman’s):	Statutory
Jones Act coverage, if applicable:	Not applicable

Employer’s Liability:

Bodily injury, each accident	\$ 500,000
Bodily injury by disease, each employee	\$ 500,000
Bodily injury/disease aggregate	\$ 500,000

2. Contractor’s Commercial General Liability under Paragraphs 6.03.B and 6.03.C of the General Conditions:

General Aggregate	\$ 2,000,000
Products - Completed Operations Aggregate	\$ 2,000,000
Personal and Advertising Injury	\$ 1,000,000
Each Occurrence (Bodily Injury and Property	\$ 1,000,000

NOT FOR BIDDING

Damage) _____

3. Automobile Liability under Paragraph 6.03.D. of the General Conditions:

Bodily Injury:

Each person	\$	<u>1,000,000</u>
Each accident	\$	<u>1,000,000</u>

Property Damage:

Each accident	\$	<u>500,000</u>
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[or]

Combined Single Limit of	\$	<u>1,000,000</u>
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4. Excess or Umbrella Liability:

Per Occurrence	\$	<u>3,000,000</u>
General Aggregate	\$	<u>3,000,000</u>

5. Contractor's Pollution Liability:

Each Occurrence	\$	_____
General Aggregate	\$	_____

If box is checked, Contractor is not required to provide Contractor's Pollution Liability insurance under this Contract

6. Additional Insureds: In addition to Owner and Engineer, include as additional insureds the following:

Owner: City of Orange Beach
4099 Orange Beach Blvd.
Orange Beach, AL 36561

Engineer: Goodwyn, Mills & Cawood, Inc.
11 N. Water Street, Suite 15250
Mobile, AL 36602

7. All insurance certificates shall provide for "Waiver of Subrogation" against the Owner, Engineer and their Consultants, by the Contractor, Subcontractor, and their insurers.

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SC-6.05 *Property Insurance*

SC-6.05.A. Delete Paragraph 6.05.A of the General Conditions and substitute the following in its place:

Contractor shall provide and maintain installation floater insurance for property under the care, custody, or control of Contractor. The installation floater insurance shall be a broad form or "all risk" policy providing coverage for all materials, supplies, machinery, fixtures, and equipment that will be incorporated into the Work. Coverage under the Contractor's installation floater will include:

1. any loss to property while in transit,
2. any loss at the Site, and
3. any loss while in storage, both on-site and off-site.

Coverage cannot be contingent on an external cause or risk, or limited to property for which the Contractor is legally liable. The Contractor will be solely responsible for any deductible carried under this coverage and claims on materials, supplies, machinery, fixture, and equipment that will be incorporated into the Work while in transit or in storage. This policy will include a waiver of subrogation applicable to Owner, Contractor, Engineer, all Subcontractors, and the officers, directors, partners, employees, agents and other consultants and subcontractors of any of them.

ARTICLE 7 – CONTRACTOR'S RESPONSIBILITIES

SC-7.02 *Labor; Working Hours*

SC-7.02.B. Amend the first and second sentences of Paragraph 7.02.B to state "...all Work at the Site shall be performed during regular working hours, [M] through [F]. Contractor will not perform Work on a [weekends], or any legal holiday."

SC-7.09 *Taxes*

SC 7.09 Add a new paragraph immediately after Paragraph 7.09.A:

- B. Owner is exempt from payment of sales and compensating use taxes of the State of Alabama and of cities and counties thereof on all materials to be incorporated into the Work.
1. Owner will furnish the required certificates of tax exemption to Contractor for use in the purchase of supplies and materials to be incorporated into the Work.
 2. Owner's exemption does not apply to construction tools, machinery, equipment, or other property purchased by or leased by Contractor, or to supplies or materials not incorporated into the Work.

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ARTICLE 10 – ENGINEER’S STATUS DURING CONSTRUCTION

SC-10.03 *Project Representative*

SC-10.03 Add the following new paragraphs immediately after Paragraph 10.03.A:

- B.** The Resident Project Representative (RPR) will be Engineer's representative at the Site, will act as directed by and under the supervision of Engineer, and will confer with Engineer regarding RPR's actions.
1. **General:** RPR's dealings in matters pertaining to the Work in general shall be with Engineer and Contractor. RPR's dealings with Subcontractors shall only be through or with the full knowledge and approval of Contractor. RPR shall generally communicate with Owner only with the knowledge of and under the direction of Engineer.
 2. **Schedules:** Review the progress schedule, schedule of Shop Drawing and Sample submittals, and Schedule of Values prepared by Contractor and consult with Engineer concerning acceptability.
 3. **Conferences and Meetings:** Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences, and other Project-related meetings, and prepare and circulate copies of minutes thereof.
 4. **Liaison:**
 - a. Serve as Engineer's liaison with Contractor. Working principally through Contractor's authorized representative or designee, assist in providing information regarding the provisions and intent of the Contract Documents.
 - b. Assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's on-Site operations.
 - c. Assist in obtaining from Owner additional details or information, when required for proper execution of the Work.
 5. **Interpretation of Contract Documents:** Report to Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to Contractor clarifications and interpretations as issued by Engineer.
 6. **Shop Drawings and Samples:**
 - a. Record date of receipt of Samples and Contractor-approved Shop Drawings.
 - b. Receive Samples which are furnished at the Site by Contractor, and notify Engineer of availability of Samples for examination.
 - c. Advise Engineer and Contractor of the commencement of any portion of the Work requiring a Shop Drawing or Sample submittal for which RPR believes that the submittal has not been approved by Engineer.
 7. **Modifications:** Consider and evaluate Contractor's suggestions for modifications in Drawings or Specifications and report such suggestions,

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together with RPR's recommendations, if any, to Engineer. Transmit to Contractor in writing decisions as issued by Engineer.

8. Review of Work and Rejection of Defective Work:

- a. Conduct on-Site observations of Contractor's work in progress to assist Engineer in determining if the Work is in general proceeding in accordance with the Contract Documents.
- b. Report to Engineer whenever RPR believes that any part of Contractor's work in progress is defective, will not produce a completed Project that conforms generally to the Contract Documents, or will imperil the integrity of the design concept of the completed Project as a functioning whole as indicated in the Contract Documents, or has been damaged, or does not meet the requirements of any inspection, test or approval required to be made; and advise Engineer of that part of work in progress that RPR believes should be corrected or rejected or should be uncovered for observation, or requires special testing, inspection or approval.

9. Inspections, Tests, and System Start-ups:

- a. Verify that tests, equipment, and systems start-ups and operating and maintenance training are conducted in the presence of appropriate Owner's personnel, and that Contractor maintains adequate records thereof.
- b. Observe, record, and report to Engineer appropriate details relative to the test procedures and systems start-ups.

10. Records:

- a. Prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, Subcontractors present at the Site, weather conditions, data relative to questions of Change Orders, Field Orders, Work Change Directives, or changed conditions, Site visitors, deliveries of equipment or materials, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to Engineer.
- b. Record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of all Contractors, Subcontractors, and major Suppliers of materials and equipment.
- c. Maintain records for use in preparing Project documentation.

11. Reports:

- a. Furnish to Engineer periodic reports as required of progress of the Work and of Contractor's compliance with the Progress Schedule and schedule of Shop Drawing and Sample submittals.
- b. Draft and recommend to Engineer proposed Change Orders, Work Change Directives, and Field Orders. Obtain backup material from Contractor.

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- c. Immediately notify Engineer of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, force majeure or delay events, damage to property by fire or other causes, or the discovery of any Constituent of Concern or Hazardous Environmental Condition.
12. **Payment Requests:** Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to Engineer, noting particularly the relationship of the payment requested to the Schedule of Values, Work completed, and materials and equipment delivered at the Site but not incorporated in the Work.
13. **Certificates, Operation and Maintenance Manuals:** During the course of the Work, verify that materials and equipment certificates, operation and maintenance manuals and other data required by the Contract Documents to be assembled and furnished by Contractor are applicable to the items actually installed and in accordance with the Contract Documents, and have these documents delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.
14. **Completion:**
- a. Participate in Engineer's visits to the Site to determine Substantial Completion, assist in the determination of Substantial Completion and the preparation of a punch list of items to be completed or corrected.
 - b. Participate in Engineer's final visit to the Site to determine completion of the Work, in the company of Owner and Contractor, and prepare a final punch list of items to be completed and deficiencies to be remedied.
 - c. Observe whether all items on the final list have been completed or corrected and make recommendations to Engineer concerning acceptance and issuance of the notice of acceptability of the work.
- C. The RPR shall not:
1. Authorize any deviation from the Contract Documents or substitution of materials or equipment (including "or-equal" items).
 2. Exceed limitations of Engineer's authority as set forth in the Contract Documents.
 3. Undertake any of the responsibilities of Contractor, Subcontractors, or Suppliers.
 4. Advise on, issue directions relative to, or assume control over any aspect of the means, methods, techniques, sequences or procedures of Contractor's work.
 5. Advise on, issue directions regarding, or assume control over security or safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor.

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6. Participate in specialized field or laboratory tests or inspections conducted off-site by others except as specifically authorized by Engineer.
7. Accept Shop Drawing or Sample submittals from anyone other than Contractor.
8. Authorize Owner to occupy the Project in whole or in part.

ARTICLE 15 – PAYMENTS TO CONTRACTOR; SET-OFFS; COMPLETION; CORRECTION PERIOD

SC-15.03 *Substantial Completion*

SC 15.03.B Add the following new subparagraph to Paragraph 15.03.B:

1. If some or all of the Work has been determined not to be at a point of Substantial Completion and will require re-inspection or re-testing by Engineer, the cost of such re-inspection or re-testing, including the cost of time, travel and living expenses, shall be paid by Contractor to Owner. If Contractor does not pay, or the parties are unable to agree as to the amount owed, the Owner may impose a reasonable set-off against payments due under Article 15.

ARTICLE 17 – FINAL RESOLUTION OF DISPUTES

SC-17.02 Add the following new paragraph immediately after Paragraph 17.01.

SC-17.02 *Attorneys' Fees*

SC-17.02 Add the following new paragraph immediately after Paragraph 17.02.

SC-17.02 Attorneys' Fees: For any matter subject to final resolution under this Article, the prevailing party shall be entitled to an award of its attorneys' fees incurred in the final resolution proceedings, in an equitable amount to be determined in the discretion of the court, arbitrator, arbitration panel, or other arbiter of the matter subject to final resolution, taking into account the parties' initial demand or defense positions in comparison with the final result.

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Work Change Directive No.

Date of Issuance: _____ Effective Date: _____
 Owner: _____ Owner's Contract No.: _____
 Contractor: _____ Contractor's Project No.: _____
 Engineer: _____ Engineer's Project No.: _____
 Project: _____ Contract Name: _____

Contractor is directed to proceed promptly with the following change(s):
 Description:

Attachments: *[List documents supporting change]*

Purpose for Work Change Directive:

Directive to proceed promptly with the Work described herein, prior to agreeing to changes on Contract Price and Contract Time, is issued due to: *[check one or both of the following]*

- Non-agreement on pricing of proposed change.
- Necessity to proceed for schedule or other Project reasons.

Estimated Change in Contract Price and Contract Times (non-binding, preliminary):

Contract Price \$ _____ [increase] [decrease].
 Contract Time _____ days [increase] [decrease].

Basis of estimated change in Contract Price:

- Lump Sum Unit Price
- Cost of the Work Other

RECOMMENDED BY:

AUTHORIZED BY:

RECEIVED:

By: _____	By: _____	By: _____
Engineer (Authorized Signature)	Owner (Authorized Signature)	Contractor (Authorized Signature)
Title: _____	Title: _____	Title: _____
Date: _____	Date: _____	Date: _____

Approved by Funding Agency (if applicable)

By: _____ Date: _____
 Title: _____

NOT FOR BIDDING

Change Order No. _____

Date of Issuance:

Effective Date:

Owner:

Owner's Contract No.:

Contractor:

Contractor's Project No.:

Engineer:

Engineer's Project No.:

Project:

Contract Name:

The Contract is modified as follows upon execution of this Change Order:

Description:

Attachments: *[List documents supporting change]*

CHANGE IN CONTRACT PRICE	CHANGE IN CONTRACT TIMES <i>[note changes to Milestones if applicable]</i>
Original Contract Price: \$ _____	Original Contract Times: Substantial Completion: _____ Ready for Final Payment: _____ days or dates
[Increase] [Decrease] from previously approved Change Orders No. ___ to No. ___: \$ _____	[Increase] [Decrease] from previously approved Change Orders No. ___ to No. ___: Substantial Completion: _____ Ready for Final Payment: _____ days
Contract Price prior to this Change Order: \$ _____	Contract Times prior to this Change Order: Substantial Completion: _____ Ready for Final Payment: _____ days or dates
[Increase] [Decrease] of this Change Order: \$ _____	[Increase] [Decrease] of this Change Order: Substantial Completion: _____ Ready for Final Payment: _____ days or dates
Contract Price incorporating this Change Order: \$ _____	Contract Times with all approved Change Orders: Substantial Completion: _____ Ready for Final Payment: _____ days or dates

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<p>RECOMMENDED:</p> <p>By: _____ Engineer (if required)</p> <p>Title: _____</p> <p>Date: _____</p>	<p>ACCEPTED:</p> <p>By: _____ Owner (Authorized)</p> <p>Title: _____</p> <p>Date: _____</p>	<p>ACCEPTED:</p> <p>By: _____ Contractor (Authorized)</p> <p>Title: _____</p> <p>Date: _____</p>
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Approved by Funding Agency (if applicable)

By: _____ Date: _____
Title: _____

NOT FOR BIDDING

"General Decision Number: AL20210104 01/01/2021

Superseded General Decision Number: AL20200104

State: Alabama

Construction Type: Heavy

County: Baldwin County in Alabama.

HEAVY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was 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 \$10.95 per hour (or the applicable wage rate listed on this wage determination, if it is higher, for all hours spent performing on the contract in calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a) (1) (ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a) (2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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Modification Number 0 Publication Date 01/01/2021

ENGI0653-013 06/01/2017

	Rates	Fringes
POWER EQUIPMENT OPERATOR (PIPELINE)		
Backhoe, Excavator,		
Trackhoe.....	\$ 40.69	15.20
Bulldozer.....	\$ 40.69	15.20

SUAL2015-032 08/02/2017

	Rates	Fringes
CARPENTER, Includes Form Work....	\$ 19.05	7.86

00942-1

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CEMENT MASON/CONCRETE FINISHER, Includes Water Sewer Lines.....	\$ 13.78	0.00
ELECTRICIAN.....	\$ 19.56	0.00
LABORER: Common or General, Includes Water Sewer Lines.....	\$ 10.00	0.00
LABORER: Pipelayer, Includes Water Sewer Lines.....	\$ 11.95	0.00
OPERATOR: Backhoe/Excavator/Trackhoe, Includes Water Sewer Lines (Excludes, PIPELINE).....	\$ 13.56	0.00
OPERATOR: Loader, Includes Water Sewer Lines.....	\$ 17.64	2.14
TRUCK DRIVER: Dump Truck, Includes Water Sewer Lines.....	\$ 12.56	2.12

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

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

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

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(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

00942-3

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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 requester 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.

=====

END OF GENERAL DECISION

"

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**Required Attachments for
RESTORE Oil Spill Impact Component
Construction Contracts**

Non-State and State Agency – Template version 12.21.2020

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The “Required Attachments for RESTORE Oil Spill Impact Component Construction Contracts” is not intended to represent all requirements and obligations that may be applicable to contracts resulting from this solicitation. This contract is subject to the terms and conditions of the Sub-Award Agreement between the Alabama Department of Conservation and Natural Resources (“ADCNR”) and the Project Owner (“Subrecipient”), the terms and conditions of the Federal Award from the Gulf Coast Ecosystem Restoration Council (“RESTORE Council”, also “Council”), including any Special Award Conditions, the Standard Sub-Award Terms and Conditions, the RESTORE Council Financial Assistance Standard Terms and Conditions, as amended, the RESTORE Act, 33 USC § 1321(t) et seq., the U.S. Department of Treasury Regulations governing the RESTORE Act, 31 CFR § 34 et seq., all applicable terms and conditions in 2 CFR Part 200 of the Office of Management and Budget (“OMB”) Uniform Guidance for Grants and Cooperative Agreements, as amended on August 13, 2020, including Appendix II to 2 CFR Part 200, and all other OMB circulars, executive orders or other federal laws or regulations applicable to the services provided under this contract. All of these terms and conditions apply to the Subrecipient and its Contractors, as well as any covered subcontractors or vendors.

Requirements applicable to this contract, as well as any covered subcontracts or vendors include, but are not limited to:

- CERTIFICATIONS RELATED TO RESTORE ACT OIL SPILL IMPACT COMPONENT FUNDING
- RESTORE COUNCIL FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS
- ADCNR SUB-AWARD TERMS AND CONDITIONS FOR CONTRACTED PARTIES
- APPENDIX II TO 2 CFR PART 200: CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS
- LABOR STANDARDS SUPPLEMENTARY CONDITIONS TO THE CONSTRUCTION CONTRACT (*Davis Bacon and Related Acts*)[FE1]
- PROCUREMENT OF RECOVERED MATERIALS
- PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OF EQUIPMENT
- DOMESTIC PREFERENCES FOR PROCUREMENTS
- CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN’S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS
- SAMPLE LETTER FROM CONTRACTOR TO MBE/WBE FIRMS

NOT FOR BIDDING

- 41 CFR §60-1.4(b) EQUAL OPPORTUNITY CLAUSE (*for Federally Assisted Construction Contracts*)
- 41 CFR §60-4.2(d) NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (Executive Order 11246)
- 41 CFR §60-4.3(a) STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (Executive Order 11246)
- SUBCONTRACTOR LISTING FORM (*The Lowest Responsive and Responsible Bidder MUST submit with required MBE/WBE documentation.*)

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CERTIFICATIONS RELATED TO RESTORE ACT OIL SPILL IMPACT COMPONENT FUNDING

By entering into this contract, the contractor expressly acknowledges that:

- 1) This project is funded in whole or in part with grant funding from the RESTORE Council and the Alabama Department of Conservation and Natural Resources under the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act);
- 2) Any contract awarded will be subject to the terms and conditions of said funding award, the RESTORE Council Financial Assistance Standard Terms and Conditions, the Standard Sub-Award Terms and Conditions, the RESTORE Act, 33 USC 1321(t), Treasury Regulations 31 CFR § 34 et seq., including 31 CFR §§ 34, Subpart F, all applicable terms and conditions in 2 CFR Part 200 (including Appendix II to Part 200), and all other OMB circulars, executive orders or other federal laws or regulations, as applicable.;
- 3) Any contract awarded will be subject to 31 CFR Part 101 – Governmentwide Debarment and Suspension (Nonprocurement); and,
- 4) Title VI of the Civil Rights Act of 1964 (42 USC §§ 2000d et seq.) and any Council regulations and policies promulgated pursuant to its authority prohibit discrimination on the grounds of race, color, or national origin under programs or activities receiving Federal financial assistance.
- 5) Any contract awarded will be subject to the laws and regulations of the United States and the State of Alabama.

The owner will not enter into a contract with a contractor, or the contractor's principals, if the contractor or its principals appear on the federal government's Excluded Parties List. The contractor does hereby certify, by entering into this agreement, that neither it nor its principals are presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

The contractor must verify that any subcontractor (or the subcontractor's principals) does not appear on the federal government's Excluded Parties List prior to executing a subcontract with that entity. The Excluded Parties List is accessible at <http://www.sam.gov>.

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RESTORE COUNCIL
FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS
&
ADCNR SUB-AWARD TERMS AND CONDITIONS
FOR CONTRACTED PARTIES #S1P23-OBSU

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STATE OF ALABAMA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
64 NORTH UNION STREET
MONTGOMERY, ALABAMA 36130

KAY IVEY
GOVERNOR

July 2, 2020

CHRISTOPHER M. BLANKENSHIP
COMMISSIONER

EDWARD F. POOLOS
DEPUTY COMMISSIONER

LEGAL SECTION
CHARLANNA W. SKAGGS
GENERAL COUNSEL

JENNIFER WEBER
DEPUTY GENERAL
COUNSEL

JULIANA T. DEAN
DEPUTY GENERAL
COUNSEL

RYAN CORLEY
ASSOCIATE COUNSEL

PHONE: 334/242-3165
FAX: 334/242-3167

MEMORANDUM

TO: Dr. Amy Hunter
Deepwater Horizon Restoration Coordinator

FROM: Juliana Dean *JD*
Deputy General Counsel

RE: Fully Executed
Subaward Grant Agreement #S1P23 OFSU
Orange Beach North Sewer Force Main Upgrade
City of Orange Beach

Please find attached an original of the above referenced document which has been fully executed. We have retained a copy for our files and forwarded a copy to the Accounting Section.

JD/dp

Attachments

Accounting Section

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RESOLUTION NO. 20-110

A RESOLUTION AUTHORIZING THE EXECUTION OF A
SUBAWARD GRANT AGREEMENT WITH THE
ALABAMA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES FOR
THE RESTORE ACT STATE EXPENDITURE PLAN FUNDED
ORANGE BEACH NORTH SEWER FORCE MAIN
SEWER UPGRADE PROJECT

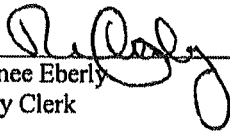
FINDINGS:

1. The purpose of this Agreement is for Alabama Department of Conservation and Natural Resources (ADCNR) to provide funding under the Resources and Ecosystem Sustainability, Tourism Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act) State Expenditure Plan to the City of Orange Beach for the upgrade of the existing sanitary sewer force main located north of the Gulf Intracoastal Waterway.
2. The purpose of the project is to improve the capacity and integrity of an existing sanitary sewer force main located along the Foley Beach Express and Roscoe Roads.
3. ADCNR will disperse \$5,195,000 to the City to offset the cost of the project.
4. After having reviewed said agreement, the City Council has determined that the provisions are in the best interest of the City of Orange Beach, Alabama.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF ORANGE BEACH, ALABAMA, AS FOLLOWS:

1. That the Mayor is hereby authorized to execute a grant agreement in substantially the form and of substantially the content now before the Council between the City of Orange Beach and the Alabama Department of Conservation and Natural Resources (ADCNR) as an act for and on behalf of the City of Orange Beach subject to final approval by the City Attorney; and
2. That this Resolution shall become effective immediately upon its adoption.

ADOPTED THIS 19th DAY OF MAY, 2020.



Renee Eberly
City Clerk

CERTIFICATE

I, Renee Eberly, City Clerk of the City of Orange Beach, Alabama, do hereby certify that the foregoing is a true and correct copy of Resolution No. 20-110, which was duly and legally adopted at a regular meeting of the City Council on May 19, 2020.



City Clerk

NOT FOR BIDDING

STATE OF ALABAMA

ADCNR Grant #: S1P23-OBSU

MONTGOMERY COUNTY

SUBAWARD GRANT AGREEMENT

THIS SUBAWARD GRANT AGREEMENT, ("Agreement") is made and entered into by and between the State of Alabama Department of Conservation and Natural Resources (hereinafter "ADCNR") and the City of Orange Beach (hereinafter "Subrecipient"). Pursuant to this Agreement, ADCNR and Subrecipient (collectively hereinafter "Parties") agree as follows:

1. **PROJECT PURPOSE AND IDENTITY:** The purpose of this Agreement is to provide funding under the Resources and Ecosystem Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (hereinafter "RESTORE Act") to Subrecipient for implementation of the RESTORE Act Spill Impact project titled "State Expenditure Plan #23: Orange Beach North Sewer Force Main Upgrade" (hereinafter "Project"). The purpose of this project is to construct approximately 8 miles of sewer force main from a point on Highway 180 in Orange Beach to an existing lift station on County Road 12, further described in the Federal Award GNSSP20AL0004-01-00. This Agreement between the Parties will be identified by the "ADCNR Grant Number" set forth above in the upper right corner of this Agreement. All invoices and other correspondence submitted to ADCNR in connection with this Agreement must be identified by said Grant Number.

FEDERAL AWARD INFORMATION: The Project's Financial Assistance Award (hereinafter "Federal Award") in its entirety is hereby incorporated into this Agreement by reference. Information as to the Federal Award associated with the Project includes the following:

- a. Federal Award Identification Number (FAID): GNSSP20AL0004
 - b. Federal Award Period of Performance: 10/01/2019-09/30/2023
 - c. Total Amount of Federal Funds Obligated to Subrecipient: \$5,195,000
 - d. Subrecipient DUNS#: 771793761
 - e. Total Amount of Federal Award: \$5,350,117
 - f. Name of Federal Awarding Agency: Gulf Coast Ecosystem Restoration Council (hereinafter "RESTORE Council")
 - g. Pass-Through Entity & Awarding Official Contact Information:
Alabama Department of Conservation and Natural Resources
Commissioner Christopher M. Blankenship
64 N. Union Street; Suite 468
Montgomery, AL 36130
 - h. CFDA Number & Name: CFDA# 87.052 "Spill Impact Component Project Grants"
 - i. Indirect Cost Rate of Subrecipient: 0%
2. **AGREEMENT FUNDING AMOUNT:** ADCNR's funding commitment under this Agreement shall be within the budgetary limits as described herein and pursuant to the Federal Award and shall not exceed a total of five million one hundred ninety-five thousand and xx/100 dollars (\$5,195,000).
 3. **PROJECT PERIOD:** The period allowed for Project completion by the Subrecipient (hereinafter "Project Period") shall commence on the April 16, 2020 and end on September 30, 2023.
 4. **AGREEMENT TERM:** The term of this Agreement shall commence on April 16, 2020 and end on September 30, 2023 (hereinafter "Agreement Term").

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5. **APPLICABLE LAWS:** Subrecipient shall perform and/or procure all Agreement Services in accordance with all applicable federal, state and local laws, codes, regulations, and ordinances, including, but not limited to all executive orders (EO), Office of Management and Budget (OMB) requirements, and RESTORE Regulations. In addition, Subrecipient shall procure all applicable federal, state, and local permits and pay all said fees. Subrecipient further agrees and acknowledges it is responsible for ensuring of all lower tier compliance as to all such requirements. Subrecipient shall at all times maintain effective internal control providing reasonable assurance as to compliance with all requirements.
6. **AGREEMENT SERVICES:** Subrecipient hereby agrees, in proper sequence and in the time herein specified, to perform all tasks and to provide all the necessary labor, materials, equipment, services and facilities necessary to achieve Project completion and fulfill all terms of this Agreement in accordance with all requirements of the Federal Award, including, but not limited to, any RESTORE Council specific Special Award Conditions and Supplemental Construction Terms contained therein, and all applicable laws (hereinafter "Agreement Services"). Research and Development are not services funded under this subaward.
7. **RELIANCE UPON SUBRECIPIENT:** Subrecipient acknowledges and hereby accepts responsibility to stay current as to necessary compliance measures. ADCNR is relying upon the Subrecipient to maintain compliance with all requirements associated with performance under this Agreement and all exhibits hereto, including, but not limited to, the Grant Award Document, its Special Award Conditions, RESTORE Council policies and Supplemental Construction Terms, required certifications, and all applicable laws. Subrecipient's responsibility specifically includes safeguarding the property that is held in trust by Subrecipient for the full duration of its designated "estimated useful life" of fifty (50) years from the date of construction completion. Subrecipient specifically acknowledges and agrees to comply with *Special Award Condition No. 7. - Estimated useful life and federal interest in project property.*
8. **FUNDING AVAILABILITY/SOURCES:** Subrecipient acknowledges and agrees the commencement and continuation of this Agreement, as well as any funding to be disbursed pursuant to this Agreement, is contingent on the availability of and actual receipt by ADCNR of the Federal Award funding designated for this Project.
9. **ALLOWABLE COSTS:**
- a. Costs allowed under this Agreement shall be determined in accordance with provisions of all applicable federal, state and local laws, regulations, and other requirements including, but not limited to, the following:
 - i. Federal Award;
 - ii. Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award;
 - iii. 2 C.F.R. Part 200; and
 - iv. 31 C.F.R. Part 34.
 - b. Subrecipient agrees that any expenditure related to any type of lower tier contract or subaward support prior to both receipt of written approval from ADCNR and execution of a written agreement pursuant to Paragraph 23 of this Agreement may be disallowed at the sole discretion of ADCNR.
 - c. Subrecipient shall immediately notify ADCNR in writing in the event, subsequent to execution of this Agreement, it receives other financial assistance to support or fund any activity related to Agreement Services. Subrecipient further agrees that no costs funded by such other sources constitute Allowable Costs.

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- d. Subrecipient acknowledges that no pre-award costs or other costs incurred prior to the Effective Date of this Agreement are eligible for reimbursement pursuant to this Agreement, unless specifically authorized in writing by ADCNR.
- e. Subrecipient specifically agrees that Non-Federal Share funds, in the amount and as described in the Federal Award, will be used as leverage to complete the Project as described in the approved Scope of Work.

10. REIMBURSEMENT PAYMENTS: Invoices, with required supporting documentation detailing the Allowable Costs to be reimbursed in accordance with the Federal Award Subrecipient budget categories, shall be submitted to the following:

Dr. Amy Hunter
Deepwater Horizon Restoration Coordinator
Alabama Department of Conservation and Natural Resources
31115 Five Rivers Boulevard
Spanish Fort, AL 36527
Email: amy.hunter@dcnr.alabama.gov

The Subrecipient may invoice no more frequently than monthly for reimbursement of Allowable Costs. Subrecipient's final request for reimbursement of Allowable Costs under this Agreement must be received by ADCNR no later than fifteen (15) days after the expiration of the Project Period. Subrecipient acknowledges that due to annual State of Alabama fiscal year closeout procedures, ADCNR is not able to process payments in the month of September. Accordingly, requests for payment not submitted to ADCNR on or before August 15 will not be processed prior to commencement of the closeout period. In addition, only Allowable Costs incurred during an active fiscal year performance period are eligible for reimbursement. Requests for payment not received by deadlines set by ADCNR will not be eligible for reimbursement. While funding under this Agreement shall be on a reimbursement-only basis for Allowable Costs, if at any time any funds disbursed by ADCNR are for any reason not expended (or, for example, are returned/credited to Subrecipient subsequent to payment of an invoice), Subrecipient shall immediately notify ADCNR and return such funds in such timeframe and manner as specified by ADCNR. Prior to the submittal of any cost documentation, the sub-recipient shall redact, in accordance with 2 CFR 200.82, all personal information except for Personally Identifiable Information (PII) that is required by law to be disclosed. See also 2 CFR 200.79.

ADCNR reserves the right to refuse to pay all or any part of requested funding for any of the following reasons: 1) at ADCNR's discretion, the costs are not determined to be reasonable or necessary for completion of the scope of work; (2) at ADCNR's discretion, the costs are determined to be ineligible for reimbursement; (3) the Subrecipient has failed to comply with any term or conditions of this agreement; (4) the Subrecipient has otherwise failed to perform the scope of work in accordance with this agreement; or (5) ADCNR has determined that the Subrecipient has otherwise failed to comply with applicable state, federal, or local laws and regulations.

Notwithstanding any other provision of this agreement, and notwithstanding the submission of any reimbursement request by the Subrecipient, ADCNR shall not pay more than 95% of the sub-award amount until such time as the Subrecipient has completed the work, submitted final reporting, and submitted a written certification to ADCNR that the scope of work was completed in accordance with the terms and conditions of this agreement, that no additional amounts are owed, and that no additional reimbursement requests will be submitted.

11. FINAL PAYMENT: Notwithstanding any other provision of this Agreement, and notwithstanding the submission of any Reimbursement Request by Subrecipient, ADCNR shall withhold an amount equal to five-percent (5%) of the Funds until such time as Subrecipient has completed the Work, submitted the Final Report, as defined below, required pursuant to this section, and received ADCNR's written approval of such Final Report. Within forty-five (45) days after ADCNR's written approval of such Final Report, ADCNR shall

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disburse to Subrecipient all or such portion of the five-percent (5%) holdback as is properly payable to Subrecipient for Work performed under this Agreement. However, if ADCNR is satisfied that the Project is proceeding on schedule and on budget, ADCNR (acting in its sole discretion) may reduce the holdback from five-percent (5%) and disburse Funds to Recipient to pay for the costs of Work in advance of completion of the Work and submission of Final Report.

When Subrecipient has performed all the Work, sub-recipient shall transmit to ADCNR a comprehensive report on the Work, along with the corresponding results (the "Final Report"). As appropriate, the Final Report should include copies of any publications, press releases, and other documents, materials, and products developed as part of the Project, including, without limitation, photographs, video footage, and other electronic representations of the Project and Work. The Final Report shall be provided by Subrecipient to ADCNR within forty-five (45) days of Project completion. Upon approval of Final Reports, ADCNR will process final Reimbursement Request.

Upon satisfactory completion of the Work performed under this Agreement, as a condition before final payment under this Agreement, or as a termination settlement under this Agreement, the Subrecipient shall execute and deliver to ADCNR a release of all claims, on a form provided by ADCNR, against ADCNR arising under, or by virtue of, this Agreement. Unless otherwise provided in the Agreement, by state law, or otherwise expressly agreed to by the Parties in this Agreement, final payment under this Agreement or settlement upon termination of this Agreement shall not constitute a waiver of ADCNR's claims against the sub-recipient or its sureties under this Agreement.

12. SUBMISSION OF REPORTS/INFORMATION: Subrecipient understands and acknowledges that ADCNR must meet several requirements set forth in the Federal Award and Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award related to reporting. Furthermore, Subrecipient acknowledges that ADCNR is specifically relying upon Subrecipient to be familiar with these requirements and any subsequent updates or revisions to these requirements. Subrecipient shall provide accurate and timely information to ADCNR, as necessary, for ADCNR to remain in compliance with all said requirements of the Federal Award and applicable laws and regulations. Accordingly, Subrecipient agrees to provide the following information, and any additional information as may be deemed necessary by ADCNR:

a. Reporting:

(1) The Subrecipient shall provide required progress reports as determined by ADCNR. The form and format shall be prescribed by ADCNR.

(2) The final report must provide ADCNR with a summary financial and performance report related to the project expenditures and confirmation of Project completion including, but not limited to, supporting documentation detailing the Allowable Costs for the expenditures and other documents needed to be maintained by ADCNR for purposes of recordkeeping and potential audit compliance.

b. Submission: All reports shall be sent to the e-mail address listed below:

City of Orange Beach- Orange Beach Nort.Subrecipient Submissions@docs.e-builder.net

c. Format: Subrecipient shall provide reports generated or compiled within the scope of this Agreement specified herein in digital format or other format as may be specified by ADCNR.

13. RECORDS RETENTION/ACCESS/AUDITS: Subrecipient shall maintain detailed records sufficient to account for the receipt, obligation, and expenditure of grant funds (including, if applicable and allowed, records related to tracking program income). Accordingly, Subrecipient agrees as follows:

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- a. **Record Retention:** Subrecipient shall maintain (and require all subrecipients and contractors to maintain) records and accounts associated with this Agreement, including, but not limited to, property, personnel and financial records, in accordance with ADCNR's records retention policy and 2 C.F.R. §200.333, as well as all other applicable federal, state and local requirements, the Federal Award and Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award. Such records will be made available to all entities listed below in Paragraph 14(b) and shall be retained for a minimum of three (3) years after expiration of this Agreement, unless ADCNR grants permission in writing to destroy. However, Subrecipient agrees that it is responsible for being familiar with all such retention requirements and maintaining records for periods longer than this 3-year minimum, as applicable.
- b. **Access:** The RESTORE Council, ADCNR, the Alabama Examiners of Public Accounts, or any of their duly authorized representatives shall have timely and unrestricted access during normal business hours to any pertinent books, documents, papers, and records (including electronic records) of the Subrecipient and its agents, subrecipients and contractors in order to make audits, inspections, financial reviews, excerpts, transcripts and other examinations as directed by law (and to make copies of such). In addition, such rights to access shall include timely and reasonable access to Subrecipient's personnel for the purpose of interview and discussion related to such records.
- c. **Audit Requirements:** Subrecipient shall follow all audit requirements under the Federal Award and this Agreement and applicable federal, state, and local laws. Subrecipient shall also ensure applicable lower tier compliance.
- d. **Survival:** The provisions of this Paragraph 14 survive the Agreement Term and remain a continuing obligation of Subrecipient.
14. **POLITICAL ACTIVITY:** Subrecipient shall comply with all provisions of the Hatch Act (5 U.S.C. §1501 et seq.), as applicable, which limits political activities of employees whose principal employment activities are funded in whole or in part with federal funds. Subrecipient further agrees that it is responsible for ensuring such compliance of lower tier subrecipients and contractors, as applicable.
15. **LOBBYING ACTIVITY:**
- a. **Compliance:** Subrecipient shall comply with all applicable federal, state, and local laws related to lobbying activities including, but not limited to, the Byrd Anti-Lobbying Amendment (31 U.S.C. §1352). Subrecipient further acknowledges and agrees it is responsible for ensuring compliance as to lower tier subrecipients and contractors.
- b. **Certification:** Subrecipient hereby certifies, by execution of this Agreement, that no federal appropriated funds have been paid or will be paid, by or on behalf of Subrecipient, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- c. **Lower Tier Certification:** Subrecipient further agrees to include the certification required pursuant to Paragraph 16(b) in all applicable lower tier agreements.
- d. **Notification:** If subsequent to execution of this Agreement, Subrecipient becomes aware of any information indicating any certification potentially is no longer accurate or indicating any potential

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non-compliance issue, it shall immediately notify ADCNR in writing. Subrecipient shall also immediately suspend any related expenditures/activities until the potential issue has been resolved to ADCNR's satisfaction and Subrecipient receives written approval from ADCNR to resume such expenditures/activities

16. **FRAUD/WASTE/ABUSE:** Subrecipient shall immediately report to ADCNR as well as the RESTORE Council Inspector General in accordance with 31 C.F.R. §34.803(a), any indication of fraud, waste, abuse, or potential criminal activity associated with any activity or expenditure of funds related to this Agreement.
17. **CONFLICTS OF INTEREST:** Subrecipient by his/her/its signature, certifies to the best of his/her/its knowledge and belief, no conflict of interest (or appearance of conflict), either personal or organizational, in any manner existed or now exists which has, has had, or may have any effect on this Agreement or any activity/expenditure associated with this Agreement. By execution of this Agreement, Subrecipient certifies that a conflicts of interest policy consistent with 2 C.F.R. § 200.318 covering each activity associated with or funded pursuant to this Agreement is currently in effect and at all times will remain in effect during the Agreement Term. In the event Subrecipient subsequently cannot maintain the certification during the Agreement Term, Subrecipient shall immediately notify ADCNR in writing. Subrecipient shall also immediately suspend any related expenditures/activities until the potential issue has been resolved to ADCNR's satisfaction and Subrecipient receives written approval from ADCNR to resume such expenditures/activities.
18. **ENVIRONMENTAL COMPLIANCE:** Subrecipient shall comply with all applicable federal, state and local environmental laws, regulations and policies including, but not limited to, all requirements set forth below and more fully described within the Federal Award and Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award. Subrecipient further agrees that it is responsible for including all environment requirements set forth below pursuant to the Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award in all lower tier agreements and for ensuring lower tier compliance. If Subrecipient becomes aware of any potential impact on the environment not approved pursuant to the Federal Award, Subrecipient shall immediately notify ADCNR and suspend activities related to such potential impact until Subrecipient receives written approval from ADCNR to resume such activities.
 - a. National Historic Preservation Act, as amended (54 U.S.C. § 300101 et seq.) and Archeological and Historic Preservation Act, as amended (54 U.S.C. § 312501 et seq.)
 - b. The National Environmental Policy Act of 1969, as amended (42 U.S.C. § 4321 et seq.)
 - c. Clean Air Act, as amended (42 U.S.C. § 7401 et seq.), Clean Water Act, as amended (33 U.S.C. § 1251 et seq.), and EO 11738.
 - d. The Flood Disaster Protection Act of 1973, as amended (42 U.S.C. § 4002 et seq.)
 - e. The Endangered Species Act of 1973, as amended, (16 U.S.C. § 1531 et seq.)
 - f. The Coastal Zone Management Act, as amended, (16 U.S.C. § 1451 et seq.)
 - g. The Coastal Barriers Resources Act, as amended, (16 U.S.C. § 3501 et seq.)
 - h. The Wild and Scenic Rivers Act, as amended, (16 U.S.C. § 1271 et seq.)
 - i. The Safe Drinking Water Act of 1974, as amended, (42 U.S.C. § 300f-j)
 - j. The Resource Conservation and Recovery Act of 1976, as amended, (42 U.S.C. § 6901 et seq.)
 - k. The Comprehensive Environmental Response, Compensation, and Liability Act (Superfund) (42 U.S.C. § 9601 et seq.) and the Community Environmental Response Facilitation Act (42 U.S.C. § 9601 note)
 - l. Magnuson-Stevens Fishery Conservation and Management Act, as amended (16 U.S.C. § 1801)
 - m. Marine Mammal Protection Act, as amended (16 U.S.C. § 31)
 - n. Migratory Bird Treaty Act, as amended (16 U.S.C. §§ 703-712)
 - o. Responsibilities of Federal Agencies to Protect Migratory Birds, EO 13186
 - p. Bald and Golden Eagle Protection Act, as amended (16 U.S.C. § 668-668d)

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- q. Marine Protection, Research and Sanctuaries Act (33 U.S.C. §§ 1401-1445 and 16 U.S.C. §§ 1431—1445)
- r. National Marine Sanctuaries Act, as amended (16 U.S.C. § 1431 et seq.)
- s. Rivers and Harbors Act of 1899 (33 U.S.C § 407)
- t. Environmental Justice in Minority Populations and Low Income Populations, EO 12898, as amended
- u. Floodplain Management, EO 11988, as amended by EO 13690 and, Protection of Wetlands, EO 11990, May 24, 1977, as amended by EO 12608
- v. Farmland Protection Policy Act, as amended (7 U.S.C. § 4201 et. seq.)
- w. Coral Reef Protection, EO 13089 Invasive Species, EO 13112
- x. Invasive Species, EP 13112
- y. Laboratory Animal Welfare Act of 1966 (Public Law 89-544), as amended, (7 U.S.C. § 2131 et seq.)
- z. Nonindigenous Aquatic Nuisance Prevention Act, as amended (16 U.S.C. § 4701 et seq.)

19. FEDERAL PROVISIONS: This Agreement relies on Federal funds; therefore the following terms and conditions apply, in addition to others provided in this Agreement.

- a. Equal Employment Opportunity: Executive Order 11246 of September 24, 1965, entitled "Equal Employment Opportunity," as amended by Executive Order 11875 of October 13, 1967, and as supplemented in Department of Labor regulations (41 CFR Chapter 60). The foregoing is applicable, except as otherwise provided under 41 CFR Part 60, to any grant, contract, loan, insurance, or guarantee involving Federal assisted construction.
- b. Davis-Bacon Act: The Davis Bacon Act, 40 U.S.C. 3141-3148, as supplemented by Department of Labor regulations at 29 CFR Part 5, applies to grants awarded by RESTORE Council under the RESTORE Act in two situations: (1) for a construction project if it is for the construction of a project that can be defined as a "treatment works" in 33 U.S.C 1292; and (2) for a construction project regardless of whether it is a "treatment works" project if it is receiving federal assistance from another federal agency operating under an authority that requires the enforcement of Davis-Bacon Act-related provisions. Under this Act, contractors and subcontractors performing work on federally-funded or assisted contracts in excess of \$2,000.00 for construction, alteration, or repair or public works must pay their laborers and mechanics employed under the Contract no less than the locally prevailing wages and fringe benefits of corresponding work on similar projects in the area.
- c. Copeland "Anti-kickback" Act: The Copeland "Anti-kickback" Act, 40 U.S.C. 3141-3148, as supplemented by Department of Labor regulations (29 CFR Part 5). This Act is applicable to contracts awarded by a non-Federal entity in excess of \$100,000.00 that involve employment of mechanics or laborers. Under this Act, contractors and subrecipients are prohibited from inducing by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled.
- d. Contract Work Hours and Safety Standard Act Section 103 and 107 of the Agreement Work Hours and Safety Standard Act (40 U.S.C. 327-330) as supplemented by Department of Labor regulation (29 CFR part 5). Applicable to construction contracts awarded by Contracts and subcontractors in excess of \$2,000.00, and in excess of \$2,500.00 for other contracts which involve the employment of mechanics or laborers. Under this Act, contractors and subcontractors must compute wages of mechanics and laborers (workers) on the basis of standard forty (40) hour work week; provide workers no less than time and a half for hours worked in excess of the forty (40) hour work week; and not require workers to work in surroundings or work conditions that are unsanitary, hazardous, or dangerous.

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- e. Rights to Inventions Made Under a Contract or Agreement 37 CFR Part 401. If the Federal award meets the definition of "funding agreement" under 37 CFR 401.2(a) and the recipient and Subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under the "funding agreement," the recipient or Subrecipient must comply with the requirements of 37 CFR 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.
- f. Compliance with Office of Management and Budget Circulars. As applicable, Contractors shall comply with the following Office of Management and Budget (OMB) Uniform Guidance (2 CFR 200).
- g. If the Subrecipient, with the funds authorized by this Agreement, seeks to procure goods or services, in compliance with 2 CFR 200.321, the Subrecipient shall take affirmative steps to assure that minority business enterprises, women's business enterprises, and labor surplus area firms are used when possible.
20. OTHER COMPLIANCE: Subrecipient shall comply, and ensure lower tier compliance, with all applicable federal, state and local laws, regulations and policies including, but not limited to, all requirements set forth below and more fully described within the Federal Award and Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award. In addition, Subrecipient shall assist ADCNR as to compliance with all such requirements.
- a. Foreign Travel: Subrecipient agrees that no travel outside the United States shall be permitted pursuant to this Agreement.
- b. Seat Belts: Pursuant to EO 13044, Subrecipient agrees to encourage employees and any contractors to enforce on-the-job seat belt policies and programs when operating any vehicles in connection with performance of activities associated with this Agreement.
- c. Research Involving Human Species: Subrecipient agrees that no research involving human subjects shall be permitted pursuant to this Agreement.
- d. Federal Employee Expenses: Subrecipient agrees that no funding pursuant to this Agreement shall be used to pay transportation, travel or other expenses for any employee of the federal government without prior written approval from ADCNR.
- e. Minority Serving Institutions: Subrecipient acknowledges the RESTORE's goal of meaningful participation of minority serving institutions ("MSIs") in its financial assistance programs and agrees to include such meaningful participation of MSIs as to Project activities when possible.
- f. Research Misconduct: Subrecipient agrees, to the extent at any time applicable, to abide by all provisions of the Federal Policy on Research Misconduct issued by the Executive Office of the President's Office of Science and Technology Policy on December 6, 2000 (65 FR 76260).
- g. Care and Use of Live Vertebrate Animals: Subrecipient agrees that no research involving vertebrate animals shall be permitted pursuant to this Agreement.
- h. Homeland Security Presidential Directive 12: Subrecipient acknowledges and agrees that its performance under this Agreement does not require or involve routine physical access to a federally controlled facility or routine access to a federally controlled information system.

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- i. Export-Controlled Items: Subrecipient acknowledges and agrees that its performance under this Agreement does not require or involve access to export-controlled items.
- j. Trafficking of Victims Protection Act Of 2000: Subrecipient agrees the award term set forth in 2 C.F.R. § 175.15(b) implementing provisions of the Trafficking Victims Protection Act of 2000 (22 U.S.C. §7104(g)), to extent applicable, is hereby incorporated into this Agreement.
- k. Federal Funding Accountability and Transparency Act Of 2006 (FFATA): Subrecipient shall comply and assist ADCNR as to compliance with all applicable requirements of FFATA, as amended (Pub. L. No 109-282, 31 U.S.C. §6101) associated with this Agreement.
- l. Certifications: Subrecipient shall execute, as applicable, and comply (and assist ADCNR as to compliance) with all certifications associated with this Agreement including, but not limited to, all certifications and requirements set forth in 31 C.F.R. §34.802, assurances (Forms SF-424B and SF- 424D, or equivalent, as applicable), and any required RESTORE Council - specific certifications and/or other certifications as required by 2 C.F.R. Part 200.
- m. Construction Activities: Subrecipient acknowledges and agrees that its performance under this Agreement does require or involve construction related activities.
- n. To the extent equipment and products are authorized to be purchased pursuant to this Agreement, the Subrecipient is encouraged, to the greatest extent practicable, to purchase American-made equipment and products with funding provided pursuant to this Agreement
21. PROCUREMENT: Subrecipient shall conduct all procurement actions consistent with the Federal Award, Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award, and all applicable federal, state, and local requirements including, but not limited to, provisions of 2 C.F.R. Part 200. Furthermore, Subrecipient specifically agrees to ensure that applicable clauses set forth pursuant to 2 C.F.R. Part 200 will be included in all purchase orders, contracts, and agreements.
22. DEBARMENT AND SUSPENSION:
- a. Compliance: Subrecipient shall comply with provisions of 2 C.F.R. Part 180 "OMB Guides To Agencies on Government-wide Debarment and Suspension (Non-procurement)," which generally prohibit entities, and their principals, that have been debarred, suspended, or voluntarily excluded from participating in Federal non-procurement transactions either through primary or lower tier covered transactions, and which sets forth the responsibilities of recipients of Federal financial assistance regarding transactions with other persons, including subrecipients and contractors. Subrecipient further acknowledges and agrees it is responsible for ensuring compliance as to lower tier subrecipients and contractors. Pursuant to 31 C.F.R. Part 19, Subrecipient shall verify that its contractors (for contracts expected to equal or exceed \$25,000), subcontractors (for subcontracts expected to equal or exceed \$25,000), or principals that the subrecipient engages to accomplish the scope of work, if applicable, do not appear on the federal government's Excluded Parties List. Subrecipient may not enter into a contract or subcontract with an entity, or that entity's principals, if that entity or its principals appear on the Excluded Parties List.
- b. Certification: Subrecipient hereby certifies, by execution of this Agreement, that neither it nor its principals are presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from participation in Project implementation or any aspect of the Agreement by any Federal department or agency.
- c. Lower Tier Covered Transactions: The Subrecipient must include a term or condition in all lower tier covered transactions (subawards, contracts, and subcontracts described in 31 CFR Part 19,

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Subpart B) that the award is subject to 31 C.F.R Part 19 and require a certification of compliance in covered lower tier transactions as may be required by the RESTORE Council.

- d. Notification: If subsequent to execution of this Agreement, Subrecipient becomes aware of any information indicating any certification potentially is no longer accurate or indicating any potential non-compliance issue, it shall immediately notify ADCNR in writing. Subrecipient shall also immediately suspend any related expenditures/activities until the potential issue has been resolved to ADCNR's satisfaction and Subrecipient receives written approval from ADCNR to resume such expenditures/activities.
23. LOWER TIER SUBAWARDS/CONTRACTS: Subrecipient shall not enter into a lower tier subaward or contractual agreement associated with its performance under this Agreement without the prior written consent of ADCNR. Further, Subrecipient agrees and acknowledges that, unless otherwise approved in writing by the applicable RESTORE Council Grants Officer, all lower tier engagements shall be made in a manner to provide, to the maximum extent practicable, open and free competition in accordance with 2 C.F.R. §200.317-26, in addition to all other applicable federal, state, and local requirements. No expenditures of funds associated with this Agreement shall be made prior to full execution of a written, legally binding agreement extending to the approved subrecipient/contractor all applicable requirements associated with this Agreement. As to all lower tier awards and activities, Subrecipient agrees that it is responsible for ensuring compliance under all applicable federal, state, and local laws including, but not limited to, all requirements of 2 C.F.R 200, the Federal Award, and Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award.
24. MINORITY/WOMEN BUSINESSES: As applicable, when contracting, Subrecipient must take all necessary affirmative steps, as set forth in 2 C.F.R. § 200.321(b), to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible. This provision applies to all lower-tier transactions.
25. LOWER TIER SUBAWARD/CONTRACT NOTICE: In the event ADCNR approves Subrecipient engaging a lower tier subrecipient and/or contractor pursuant to Paragraph 23, Subrecipient shall include the following notice in each request for applications or bids for a subaward, contract, or subcontract, as applicable:
- "Applicants or bidders for a lower tier covered transaction (except procurement contracts for goods and services under \$25,000 not requiring the consent of a RESTORE Council official) are subject to 2 C.F.R. Part 180, "OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Non-procurement)." In addition, applicants or bidders for a lower tier covered transaction for a subaward, contract, or subcontract greater than \$100,000 of Federal funds at any tier are subject to relevant statutes, including among others, the provisions of 31 U.S.C. 1352, as well as the common rule, "New Restrictions on Lobbying," published at 55 FR 6736 (February 26, 1990), including definitions, and the Office of Management and Budget "Governmentwide Guidance for New Restrictions on Lobbying," and notices published at 54 FR 52306 (December 20, 1989), 55 FR 24540 (June 15, 1990), 57 FR 1772 (January 15, 1992), and 61 FR 1412 (January 19, 1996)."*
26. LOWER TIER AGREEMENT PROVISIONS: In the event ADCNR approves Subrecipient engaging a lower tier subrecipient and/or contractor pursuant to Paragraph 23, all resulting subawards and contracts made by the Subrecipient must contain, as applicable, provisions required pursuant to 2 C.F.R. Appendix II to part 200, "Contract Provisions for Non-Federal Entity Contracts Under Federal Awards," the Federal Award, the Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award, and all other federal, state, or local laws.
27. DRUG FREE WORKPLACE: Subrecipient shall comply with all provisions of the Drug-Free Workplace Act of 1988 (Public Law 100-690, Title V, Sec. 5153, as amended by Public Law 105-85, Div. A, Title VIII, Sec.

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809, as codified at 41 U.S.C. § 8102), and RESTORE Council implementing regulations at 31 C.F.R. Part 20, which require that the recipient take steps to provide a drug-free workplace.

28. **PROPERTY RIGHTS AND STANDARDS:** The provisions of Section 200.310-200.316, OMB Uniform Guidance (2 CFR 200) apply to Federal property rights and the acquisition of real property, equipment, supplies and intangible property to the extent authorized by this Agreement.

29. **PRESS/EVENTS:** Subrecipient shall notify ADCNR of the location, date, and time of any press conferences, press releases, media events, etc., related to this Project at least five (5) working days prior to the scheduled event or release.

30. **PUBLICATIONS/VIDEOS/SIGNAGE/ACKNOWLEDGMENT:** Subrecipient agrees to the following:

- a. Subrecipient shall submit copies of all publication materials including, but not limited to, print, recorded, or Internet materials to ADCNR.
- b. When releasing information related to the Project, Subrecipient shall include a statement that the project or effort undertaken has been sponsored by the "The RESTORE Council in cooperation with the State of Alabama Department of Conservation and Natural Resources."
- c. Any signage to be produced pursuant to this Agreement must have prior written approval of ADCNR and shall contain language required by the Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award and ADCNR.
- d. Unless otherwise approved by ADCNR in writing, every publication of material based on, developed under, or otherwise produced pursuant to this Agreement (except scientific articles or papers appearing in scientific, technical, or professional journals) shall contain the following disclaimer:
"This project was paid for [in part] with federal funding from the RESTORE Council under the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act)." Publications (except scientific articles or papers appearing in scientific, technical or professional journals) produced with funds from this Award must display the following additional language: "The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the RESTORE Council or ADCNR."

31. **INDEMNIFICATION:**

- a. To the extent legally enforceable, the Subrecipient (hereinafter at times referenced in this paragraph as "the Indemnitor") agrees to protect, defend, indemnify, save, and hold harmless the State of Alabama, all State Agencies, Boards and Commissions, along with the respective officers, agents, servants employees, and volunteers of each (hereinafter at times referenced in this paragraph collectively as "the Indemnitees"), from and against any and all claims, demands, expense and liability arising out of injury or death to any person, or the damage, loss or destruction of any property, which may occur or in any way grow out of, any act or omission of the Indemnitees, the Subrecipient, and the Subrecipient's agents, servants, employees, and subcontractors. Indemnitor's obligation and duty to protect, defend, indemnify, save and hold harmless the Indemnitees shall include and extend to any and all costs, expenses, attorney fees, judgements, awards, and settlements incurred by Indemnitees and/or Indemnitor as a result of any claims, demands, and/or causes of action arising out of the performance of the obligations or objectives set forth herein. Indemnitor agrees to investigate, handle, respond to, provide defense for and defend any such claims, demand, or suit at its sole expense and agrees to bear all other costs and expenses related thereto, even if the claims are groundless, false or fraudulent.

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- b. Subrecipient further agrees it releases from liability and waives its right to sue Indemnitees regarding any and all claims resulting in any physical injury, economic loss, or other damage or loss as a result of or related in any way to the Agreement.
- c. The provisions of this Paragraph 32 shall survive the Agreement Term and remain a continuing obligation of Subrecipient.

32. **TERMINATION OF AGREEMENT:** This Agreement may be terminated as follows:

- a. If, in the determination of ADCNR, Subrecipient fails to fulfill in timely and proper manner its obligations under this Agreement or violates any of the covenants, agreements, or stipulations of this Agreement, ADCNR, in addition to all other available remedies, shall thereupon have the right to terminate this Agreement by giving written notice, sent certified mail (return receipt requested), or overnight courier (signature required), to Subrecipient of such termination and specifying the effective date thereof, at least fifteen (15) days before the effective date of termination. In that event, at the option of ADCNR, all finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs, and reports or other material prepared by Subrecipient under this Agreement shall become the property of ADCNR.
- b. ADCNR may terminate this Agreement at any time without cause by giving written notice to Subgrantee by certified mail (return receipt requested) or overnight courier (signature required) of such termination and specifying the effective date thereof, at least thirty (30) days before the effective date. In that event, at the option of ADCNR, all finished or unfinished documents, data, studies, surveys, drawings, maps, models, photographs, and reports or other material prepared by Subrecipient under this Agreement shall become the property of ADCNR.
- c. If the Agreement is terminated by ADCNR, as provided herein, Subrecipient shall promptly submit a statement detailing the actual services performed and associated Allowable Costs to date of termination. The Subrecipient shall immediately return any remaining funds to ADCNR in such manner as specified by ADCNR.

33. **NOTICE:** Contact information of Parties for purposes of providing notice pursuant to the terms of this Agreement are set forth below. In the event the designation of new contact information is necessary, such shall not require a formal amendment to this Agreement.

To ADCNR:

Alabama Department of Conservation and Natural Resources
Christopher M. Blankenship, Commissioner
64 N. Union St., Suite 468
Montgomery, Alabama 36130

With a copy to:

Dr. Amy Hunter
Deepwater Horizon Restoration Coordinator
Alabama Department of Conservation and Natural Resources
31115 Five Rivers Boulevard
Spanish Fort, Alabama 36527
Email: amy.hunter@dcnr.alabama.gov

To Subrecipient:

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City of Orange Beach
Attn: Tony Kennon, Mayor
4099 Orange Beach Blvd.
Orange Beach, AL 36561

Kit Alexander, Director of Community Development
City of Orange Beach
P.O. Box 2432
4101 Orange Beach Blvd.
Orange Beach, AL 36561
kalexander@orangebeachal.gov

34. **NONDISCRIMINATION:** Subrecipient shall not discriminate on the basis of race, color, religion, age, gender, pregnancy, national origin, genetic information, veteran status, or disability in its hiring or employment practices nor in relation to admission to, access to, or operations of its programs, services, or activities. Further, Subrecipient shall comply with all RESTORE Council regulations and policies prohibiting discrimination as well as all other applicable federal, state, and local nondiscrimination laws including, but not limited to, the following: Title VI of the Civil Rights Act of 1964; Title IX of the Education Amendments of 1972; Americans with Disabilities Act of 1990; Section 504 of the Rehabilitation Act of 1973; Revised ADA Standards for Accessible Design for Construction Awards; and Age Discrimination Act of 1975; Public Health Service Act of 1912 and the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970; and any other applicable non-discrimination law(s).
35. **PROTECTIONS FOR WHISTLEBLOWERS:** In accordance with 41 U.S.C. § 4712, neither the Subrecipient or any of its contractors (vendors), or subcontractors may discharge, demote, or otherwise discriminate against an employee as a reprisal for disclosing information to a person or entity listed below that the employee reasonably believes is evidence of gross mismanagement of a federal contract or grant, a gross waste of federal funds, an abuse of authority relating to a federal contract or grant, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a federal contract (including the competition for or negotiation of a contract) or grant:
- A Member of Congress or a representative of a committee of Congress;
 - An Inspector General;
 - The Government Accountability Office;
 - A RESTORE Council employee responsible for contract or grant oversight or management;
 - An authorized official of the Department of Justice or other law enforcement agency;
 - A court or grand jury; and/or
 - A management official or other employee of the recipient, subrecipient, vendor, contractor (vendor), or subcontractor who has the responsibility to investigate, discover, or address misconduct.
36. **ASSIGNABILITY:** Subrecipient shall not assign or otherwise transfer any interest in this Agreement without the prior written consent of ADCNR.
37. **AMENDMENT:** Any amendment to this Agreement must be in writing and approved by all signatory/authorities prior to becoming effective. The Parties agree to renegotiate this Agreement if Federal, State and/or local revisions of any applicable laws or regulations make changes in the Agreement necessary.
38. **SUCCESSORS AND ASSIGNS:** This Agreement shall be binding upon the successors and assigns of the respective parties hereto.
39. **ENFORCEMENT OF RIGHTS AND OBLIGATIONS:** Failure of ADCNR to strictly or promptly enforce the rights and obligations herein shall not operate as a waiver thereof.

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40. **NO AGENCY RELATIONSHIP:** By entering into this Agreement, Subrecipient is not an agent of ADCNR, its officers, employees, agents, or assigns. Nothing in this agreement creates an agency relationship between the Parties.
41. **ALTERNATIVE DISPUTE RESOLUTION:** In the event of any dispute between the parties, senior officials of both parties shall meet and engage in a good faith attempt to resolve the dispute. Should that effort fail and the dispute involves the payment of money, a party's sole remedy is the filing of a claim with the Board of Adjustment of the State of Alabama. For any and all other disputes arising under the terms of this contract which are not resolved by negotiation, the parties agree to utilize appropriate forms of non-binding alternative dispute resolution including, but not limited to, mediation. Such dispute resolution shall occur in Montgomery, Alabama, utilizing where appropriate, mediators selected from the roster of mediators maintained by the Center For Dispute Resolution of the Alabama State Bar.
42. **NOT A DEBT OF THE STATE:** It is agreed that the terms and commitments contained herein shall not be constituted as a debt of the State of Alabama in violation of Article 11, Section 213 of the Constitution of Alabama, 1901, as amended by Amendment Number 26. It is further agreed that if any provision of this contract shall contravene any statute or constitutional provision or amendment, either now in effect or which may, during the course of this Contract, be enacted, then that conflicting provision in the Contract shall be deemed null and void.
43. **NOT ENTITLED TO MERIT SYSTEM:** The subrecipient understands and agrees that neither it nor any employees or agents thereof are entitled to any benefits of the Alabama State Merit System.
44. **BOYCOTT:** In compliance with Act 2016-312, the Subrecipient hereby certifies that it is not currently engaged in, and will not engage in, the boycott of a person or an entity based in or doing business with a jurisdiction with which the State can enjoy open trade.
45. **PRORATION:** In the event of the proration of the fund from which payment under this contract is to be made, the contract will be subject to termination.
46. **CLAIMS FOR LIENS:** Subrecipient shall be solely liable for and shall hold the State of Alabama, all State Agencies, Boards and Commissions along with the respective officers, agents, servants, employees, and volunteers of each, harmless from any and all claims or liens for labor, services or material furnished to Subrecipient in connection with the performance of its obligations under this Agreement.
47. **TAX RESPONSIBILITY:** Subrecipient hereby agrees that the responsibility for payment of any taxes from the funds received under this Agreement shall be the Subrecipient's obligation and shall be identified under the appropriate Tax Identification Number. In the event any tax refund is received by Subrecipient, it shall immediately notify ADCNR in writing and comply with all RESTORE Council requirements associated therewith.
48. **VENUE:** Subgrantee agrees that the laws of the State of Alabama shall govern and be controlling and binding over the provisions of the rights herein granted, and that, notwithstanding any provision to the contrary, the venue of any legal action brought in connection herewith shall be the circuit court of Montgomery County, Alabama.
49. **SEVERABILITY:** In the event any one or more of the provisions contained in this Agreement shall for any reason be held invalid, illegal, or unenforceable in any respect, the invalidity, illegality, or unenforceability shall not affect any other provision and this Agreement shall be construed as if the invalid, illegal, or unenforceable provision had never been contained in it.

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50. IMMIGRATION COMPLIANCE: By signing this Agreement, Subrecipient affirms, for the duration of the Agreement, that it will not violate federal immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the state of Alabama. Furthermore, if found to be in violation of this provision, Subrecipient shall be deemed in breach of the Agreement and shall be responsible for all damages resulting therefrom.


51. PARTIES REPRESENT THAT THIS AGREEMENT SUPERSEDES ALL PROPOSALS, ORAL AND WRITTEN, ALL PREVIOUS CONTRACTS, AGREEMENTS, NEGOTIATIONS AND ALL OTHER COMMUNICATIONS BETWEEN THE PARTIES WITH RESPECT TO THE SUBJECT MATTER HEREOF.

52. DOCUMENTS: The documents which comprise this Agreement between ADCNR and the Subrecipient are:

1. This Subaward Agreement; and
2. Federal Award including any RESTORE Council Special Award Conditions and Supplemental Construction Terms incorporated within the Federal Award

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their respective officers thereunto duly authorized as of the date entered below.

STATE OF ALABAMA
DEPARTMENT OF CONSERVATION
AND NATURAL RESOURCES


Christopher M. Blankenship, Commissioner

Date: 7-2-2020

CITY OF ORANGE BEACH


Tony Kennon, Mayor

Date: 5-26-2020

Reviewed By Accounting


Joseph Orsuto
ADCNR Accounting Director

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APPROVED LEGAL

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1. DATE ISSUED MM/DD/YYYY 04/16/2020

1a. SUPERSEDES AWARD NOTICE dated except that any additions or restrictions previously imposed remain in effect unless specifically rescinded

2. CFDA NO. 87.052 - Spill Impact Component Project Grants

3. ASSISTANCE TYPE Project Grant

4. GRANT NO. GNSSP20AL0004-01-00 Formerly

5. TYPE OF AWARD Other

4a. FAIN GNSSP20AL0004

5a. ACTION TYPE New

6. PROJECT PERIOD MM/DD/YYYY From 10/01/2019 Through 09/30/2023

7. BUDGET PERIOD MM/DD/YYYY From 10/01/2019 Through 09/30/2023

8. TITLE OF PROJECT (OR PROGRAM) State Expenditure Plan #23: Orange Beach North Sewer Force Main Upgrade

The Gulf Coast Ecosystem Restoration Council
RESTORE Council

500 Poydras Street
Suite 1117
New Orleans, LA 70130

NOTICE OF AWARD

AUTHORIZATION (Legislation/Regulations)
RESTORE Act, 33 U.S.C. 1321(t)(3) and 40 CFR Part 1800 - Spill
Impact Component

9a. GRANTEE NAME AND ADDRESS
CONSERVATION & NATURAL RESOURCES, ALABAMA DEPT OF
64 N Union St Rm 458
Montgomery, AL 36130-3020

9b. GRANTEE PROJECT DIRECTOR
Amy Hunter
64 N Union St Rm 458
Montgomery, AL 36130-3020
Phone: 251-621-1216

10a. GRANTEE AUTHORIZING OFFICIAL
Mr. Chris Blankenship
118 N. Royal Street
Suite 603
Mobile, AL 36602
Electronically Signed 04/16/2020

10b. FEDERAL PROJECT OFFICER
Theresa Pettijohn
500 Poydras St
Gulf Coast Ecosystem Restoration Council
New Orleans, LA 70130-3317
Phone: 504-231-1317

ALL AMOUNTS ARE SHOWN IN USD

11. APPROVED BUDGET (Excludes Direct Assistance)

I Financial Assistance from the Federal Awarding Agency Only

II Total project costs including grant funds and all other financial participation

a. Salaries and WageS	33,717.00
b. Fringe Benefits	13,499.00
c. Total Personnel Costs	47,216.00
d. Equipment	0.00
e. Supplies	100.00
f. Travel	327.00
g. Construction	0.00
h. Other	0.00
i. Contractual	5,290,773.00
j. TOTAL DIRECT COSTS	5,338,616.00
k. INDIRECT COSTS	11,501.00
l. TOTAL APPROVED BUDGET	5,350,117.00
m. Federal Share	5,350,117.00
n. Non-Federal Share	0.00

12. AWARD COMPUTATION

a. Amount of Federal Financial Assistance (from item 11m) 5,350,117.00

b. Less Unobligated Balance From Prior Budget Periods 0.00

c. Less Cumulative Prior Award(s) This Budget Period 0.00

13. TOTAL FEDERAL FUNDS AWARDED TO DATE FOR PROJECT PERIOD 5,350,117.00

14. RECOMMENDED FUTURE SUPPORT (Subject to the availability of funds and satisfactory progress of the project):

YEAR	TOTAL DIRECT COSTS	YEAR	TOTAL DIRECT COSTS
a. 2		d. 5	
b. 3		e. 6	
c. 4		f. 7	

15. PROGRAM INCOME SHALL BE USED IN ACCORD WITH ONE OF THE FOLLOWING ALTERNATIVES:

a. DEDUCTION

b. ADDITIONAL COSTS

c. MATCHING

d. OTHER RESEARCH (Add / Deduct Option)

e. OTHER (See REMARKS)

16. THIS AWARD IS BASED ON AN APPLICATION SUBMITTED TO, AND AS APPROVED BY, THE FEDERAL AWARDDING AGENCY ON THE ABOVE TITLED PROJECT AND IS SUBJECT TO THE TERMS AND CONDITIONS INCORPORATED EITHER DIRECTLY OR BY REFERENCE IN THE FOLLOWING:

a. The grant program legislation

b. The grant program regulations.

c. This award notice including terms and conditions, if any, noted below under REMARKS.

d. Federal administrative requirements, cost principles and audit requirements applicable to this grant.

In the event there are conflicting or otherwise inconsistent policies applicable to the grant, the above order of precedence shall prevail. Acceptance of the grant terms and conditions is acknowledged by the grantee when funds are drawn or otherwise obtained from the grant payment system.

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REMARKS (Other Terms and Conditions Attached - Yes No)

AUTHORIZING OFFICIAL:
Frederick Sutter, Deputy Executive Director
500 Poydras St Ste 1117
New Orleans, LA 70130-7305
Phone: 504-444-3511

Electronically Signed 04/16/2020

17.OBJ CLASS 41.0006	18a. VENDOR CODE 929933406	18b. EIN 636000619	19. DUNS 929933406	20. CONG. DIST. 03
FY-ACCOUNT NO.	DOCUMENT NO.	ADMINISTRATIVE CODE	AMT ACTION FIN ASST	APPROPRIATION
21. a. SEP	b. GNSSP20AL0004	c. SEP	d. \$5,350,117.00	e.
22. a.	b.	c.	d.	e.
23. a.	b.	c.	d.	e.

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AWARD ATTACHMENTS

Alabama Department of Conservation & Natural Resources

GNSSP20AL0004-01-00

1. EGID 122 Award Attachment

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AWARD NOTES

The following documents are incorporated in this award by reference:

- GULF COAST ECOSYSTEM RESTORATION COUNCIL FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS (AUGUST 2015), available at www.restorethegulf.gov
- 2 CFR PART 200, UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS, AS ADOPTED PURSUANT TO 2 CFR § 5900.101
- FAPIIS CERTIFICATION, 2 CFR PART 200 APPENDIX XII
- OBSERVATIONAL DATA PLAN SUBMITTED 3/16/2020
- PRELIMINARY DATA MANAGEMENT PLAN SUBMITTED 3/09/2020
- OTHER:

SPECIAL AWARD CONDITIONS

1. Non-Duplicative Use of RESTORE Act Funds

The recipient will not seek any compensation for the approved project from any other funding source, including, without limitation, the Oil Spill Liability Trust Fund. Should such funding be received, the recipient will immediately notify the Grants Officer in writing. If the recipient is authorized to make subawards, the recipient will not use RESTORE Act funds to make subawards to fund any activities for which claims were filed with the Oil Spill Liability Trust Fund after July 6, 2012.

2. Project Performance Reporting

The recipient must submit project performance outcome reports through the Council's grants management platform (i.e., PIPER) or any successor system on an annual basis. The performance outcome report is due on April 30th of each year, which is 30 calendar days after the end of the reporting period. Performance outcome reports covering the annual reporting period will be due every year of the award, with a final performance report that summarizes the activities and findings of the award due 90 calendar days after the end of the period of performance. This SAC supersedes Section B.01.c of the RESTORE Council Financial Assistance ST&CS dated August 2015, which states that performance reports are due with the same frequency as financial reports.

3. Observational Data Management and Delivery

A. *Data Sharing*: All data compiled, collected, or created under this federal award must be provided to the Council on a yearly basis and be publicly visible and accessible in a timely manner, free of charge or at minimal cost to the user that is no more than the cost of distribution to the user, except where limited by law, regulation, policy, or national security requirements. Data are to be made available in a form that would permit further analysis or reuse, i.e., data must be encoded in a machine-readable format, using existing open format standards; and data must be sufficiently documented, using open metadata standards, to enable users to independently read and understand the data (for example, a PDF version of observational data is not a valid data delivery format). The public facing, anonymously accessible data location (internet URL address) of the

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data should support a service-oriented architecture to maximize sharing and reuse of structured data and be included in the Performance Report. Data should undergo quality control (QC) and a description of the QC process and results should be referenced in the metadata.

- B. *Timeliness*: Data must be provided to the Council on a yearly basis, and the public must be given access to data no later than two years after the data are first collected and verified, or two years after the original end date of the period of performance set out in the award agreement (not including any extensions or follow-on funding), whichever first occurs.
- C. Data produced under this award and made available to the public must be accompanied by the following statement: “The [report, presentation, video, etc.] and all associated data and related items of information were prepared by [recipient name] under Award No. [number] from the Gulf Coast Ecosystem Restoration Council (RESTORE Council). The data, statements, findings, conclusions, and recommendations are those of the author[s] and do not necessarily reflect any determinations, views, or policies of the RESTORE Council.”
- D. *Failure to Share Data*: Failing, or delaying, to make data accessible in accordance with the submitted Data Management Plan and the terms hereof may lead to enforcement actions and be considered by the Council when making future award decisions. Funding recipients are responsible for ensuring that these conditions are also met by subrecipients and subcontractors.
- E. *Data Citation*: Publications based on data, and new products derived from source data, must cite the data used according to the conventions of the Publisher and use Digital Object Identifiers (DOIs), if available. All data and derived products that are used to support the conclusions of a publication must be made available in a form that permits verification and reproducibility of the results.

4. Updates to the Observational Data Plan

The recipient will update the project’s Observational Data Plan to include any plan details listed as “Not available (N/A)” or “To be determined (TBD)”, or that are in other ways left unspecified in the current version of the Observational Data Plan. The metric success criteria will be revised to match the target values indicated in the grants management platform (i.e., PIPER). Updated plan details will include specific start and end dates that accurately reflect the period of observational data collection. For all plan details provided via updated Observational Data Plans, the recipient will make any corresponding updates to metrics details in the grants management platform (i.e., PIPER). The recipient must deliver updated plans to the Council at least annually until all “N/A”, “TBD”, and unspecified items are provided, and to correct any inaccuracies until all information is final. The first updated plan must include time-frames for providing any missing information. Updated plans provided to the Council must conform to the structure of the template provided on the Council website. A completed Observational Data Closeout Report must be submitted and approved prior to close-out of the award.

5. Updates to the Data Management Plan

The recipient will update the project’s Data Management Plan to include any plan details listed as “Not available (N/A)” or “To be determined (TBD)”, or that are in other ways left unspecified in the current version of the Data Management Plan. Updated plan details will include specific start and end dates that accurately reflect the period of observational data collection. The recipient must deliver updated plans to the Council at least annually until all “N/A”, “TBD”, or unspecified items are provided, and to correct any

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inaccuracies until all information is final. The first updated plan must include time-frames for providing any missing information. Updated plans provided to the Council must conform to the structure of the template provided on the Council website. A completed Observational Data Closeout Report must be submitted and approved prior to close-out of the award.

6. Pre-Construction Requirements

The \$5,195,000 in Federal funds for construction costs shall not be released by the Council until the following information and documentation is received and accepted in writing by the Grants Office:

A. *Title to real property improved under this award.* In accordance with 2 CFR § 200.311, title to real property improved under this Award will vest with the Recipient or Subrecipient, as specified in the Award, and must be used only for authorized Award purposes. All work will be performed on existing public right-of way or easements currently owned by the City of Orange Beach (Subrecipient). Before solicitation of bids for construction of a given project, the Subrecipient shall review the type of ownership, including but not limited to fee-simple, long-term leasehold, easements and rights-of-way, for each tract of property needed for completion and maintenance of the Project. The Recipient shall certify in writing to the Council Grants Office that the Recipient and/or Subrecipient, if applicable, holds clear title to or otherwise has legal control of all project real property and that neither the Recipient nor Subrecipient are aware of any material restrictions or encumbrances that could interfere with any award purpose. The Council will rely upon the Recipient's due diligence in protecting title to all property needed for award purposes.

B. *Engineering and design plans.* The Recipient must provide to the Council Grants Office the cover sheet and such pages as are necessary to demonstrate that 100% design and engineering plans and specifications for all construction activities funded under this award stamped/signed by a professional engineer currently licensed in accordance with State requirements

The Council's review is to ensure compliance with the terms and conditions of the award and does not attest to the accuracy or completeness of design, dimensions, details, proper selection of materials, or compliance with required codes or ordinances. As between the Council and the Recipient, these responsibilities rest solely with the Recipient. For clarity, nothing in the foregoing is intended to limit or otherwise affect any of the Recipient's rights or remedies in connection with any non-federal third party, including any of the Recipient's subrecipients or contractors.

C. *Permitting requirements.* The Recipient must furnish evidence, satisfactory to the Council, that the Recipient or Subrecipient has received all Federal, state, and local permits and has complied with all applicable environmental laws necessary for construction, completion and operation of the Project.

D. *Floodplain requirements.* If the property is located within the 100-year floodplain or other flooding risks have been identified, the Recipient must furnish evidence, satisfactory to the Council, that all applicable floodplain requirements have been met. At a minimum, this includes the following:

i. Floodplain protection. Written confirmation from the State / local Floodplain Manager that the proposed project and any associated design and engineering plans are in accordance with all applicable floodplain ordinances / regulations.

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- ii. Flood insurance. In accordance with the Flood Disaster Protection Act (42 U.S.C. § 4002 et seq), the Recipient must secure and maintain the maximum available flood insurance throughout the estimated useful life of the project.

E. *Updated construction schedules and cost estimates*. The Recipient must furnish updated construction schedules and cost estimates based upon the completed engineering and design plans and/or other information that has become available since the last update.

7. Estimated Useful Life and Federal Interest in Project Property

Property that is acquired or improved, in whole or in part, with Federal assistance is held in trust by the Recipient or Subrecipient, as specified in the award, for the purpose(s) for which the award was made, for the estimated useful life. The estimated useful life of the program or individual project is defined as the period of years that constitutes the expected useful lifespan of the project, as estimated by the Recipient and agreed to by the Council, during which the Council anticipates obtaining the benefits of the project pursuant to award purposes authorized by the RESTORE Act.

For this award, the Recipient has proposed an estimated useful life of 50 years from the date of construction completion. The Council's issuance of this award represents its concurrence with the Recipient's estimated useful life.

During the estimated useful life, the Recipient or Subrecipient shall not:

- A. Sell, lease, transfer, assign, convey, hypothecate, mortgage, dispose of, or otherwise convey or encumber any interest in the property without the prior written approval of the Council's Grants Officer;
- B. Use project property for purposes other than award purposes without the prior written approval of the Grants Officer; or
- C. Fail to comply with the terms and conditions of this award or any of the federal laws and regulations, Council policies, Executive Orders, and OMB Circulars that are incorporated into the terms and conditions of this Award.

The Recipient and Subrecipient, as applicable, must administer, operate, and maintain the project in the same manner in which it operates and maintains similar infrastructure, facilities and equipment owned by it, and in accordance with state and local standards, laws, and regulations.

During the estimated useful life of the project, the Council retains an undivided equitable interest in project property, which is sometimes referred to as the "Federal interest". See 2 CFR § 200.41. When the estimated useful life of the project has ended, the Federal interest is extinguished and the Federal Government will have no further interest in project property.

8. Inspection and Final Acceptance

The final five percent (5%) of the contract amount for construction costs will not be drawn down by the Recipient until final approval of construction associated with that contract. The Recipient and Subrecipient, if applicable, will schedule a final inspection when all construction has been completed, the architect/engineer has conducted their inspection, and any deficiencies have been corrected. Representatives of the Recipient, the Subrecipient, if applicable, the architect/engineer, the contractor(s), and the Council Staff, if they so

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desire, will make the final inspection. The Council Programs Officer must be given ten (10) calendar days advance notice of the final inspection so that a Council representative may participate. The Recipient will not draw down the final five percent of construction funds until construction funds until the Notice of Final Acceptance, fully executed by the Recipient or Subrecipient, as applicable, and the applicable architect/engineer, is submitted to and accepted in writing by the Council Grants Office. Certified as-built drawings will be submitted to the Council Grants Office within 90 days of project completion.

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SUPPLEMENTAL CONSTRUCTION TERMS

These supplemental construction terms are incorporated in and made part of this award. These supplemental terms do not require clearance through documentation provided or action taken by the Recipient and therefore remain effective throughout the period of performance of the award or the estimated useful life of project property (as defined below). If a term is effective for the estimated useful life of project property, the term will so specify.

SC-1. Acquisition of Real Property

Unless specifically described in the award scope of work, the acquisition of real property is not an allowable expense. In the event that acquisition of real property or an interest in real property is identified as necessary to achieve the objectives of the Award, the Recipient shall contact the Council Grants Office for instructions prior to expending any funds related to the acquisition of real property.

SC-2. Insurance

In accordance with 2 CFR § 200.310, the Recipient or Subrecipient, as applicable, must, at a minimum, provide equivalent insurance coverage for real property and equipment acquired or improved with Federal funds as is provided to other property owned by that entity for the useful life of said property.

SC-3. Bonding

For construction or facility improvement contracts or subcontracts exceeding the simplified acquisition threshold, the minimum bonding requirements are as follows:

- A. A bid guarantee from each bidder equivalent to five percent of the bid price. The “bid guarantee” must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual instruments as may be required within the time specified.
- B. A performance bond on the part of the contractor for 100 percent of the contract price. A “performance bond” is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract.
- C. A payment bond on the part of the contractor for 100 percent of the contract price. A “payment bond” is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

SC-4. Goals for Women and Minorities in Construction

Department of Labor regulations set forth in 41 CFR § 60-4 establish goals and timetables for participation of minorities and women in the construction industry. These regulations apply to all federally assisted construction contracts in excess of \$10,000. The Recipient and Subrecipient, as applicable, must comply with these regulations and must obtain compliance with 41 CFR § 60-4 from contractors and subcontractors employed in the completion of the project by including such notices, clauses and provisions in the Solicitations for Offers or Bids as required by 41 CFR § 60-4. The goal for participation of women in each trade area must be as follows:

- A. From April 1, 1981, until further notice: 6.9 percent;

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- B. All changes to this goal, as published in the Federal Register in accordance with the Office of Federal Contract Compliance Programs regulations at 41 CFR § 60-4.6, or any successor regulations, must hereafter be incorporated by reference into these Special Award Conditions;
- C. Goals for minority participation must be as prescribed by Appendix B-80, Federal Register, Volume 45, No. 194, October 3, 1980, or subsequent publications. The Recipient must include the “Standard Federal Equal Employment Opportunity Construction Contract Specifications” (or cause them to be included, if appropriate) in all federally assisted contracts and subcontracts. The goals and timetables for minority and female participation may not be less than those published pursuant to 41 CFR 60-6.

SC-5. Davis-Bacon Act and related acts

As applicable, the Recipient and Subrecipient must comply with the provisions of the Davis-Bacon Act (40 U.S.C. § 3141-3144, and 3146-3148); the Copeland “Anti-Kickback” Act (18 U.S.C. § 874 and 40 U.S.C. § 3145); and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§ 3701-3708), regarding labor standards for federally assisted construction sub-agreements (wage guarantees).

- A. Davis-Bacon Act-related provisions are applicable if a project is classified as a “treatment works” as defined in 33 U.S.C § 1292; or for a construction project regardless of its classification if that project is receiving Federal assistance from another Federal agency operating under an authority that requires the enforcement of Davis-Bacon Act-related provisions. When required, prime construction contracts in excess of \$2,000 must include a provision for compliance with the Davis-Bacon Act as supplemented by Department of Labor regulations (29 CFR part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specific in a wage determination made by the Secretary of Labor. In addition, contracts must be required to pay wages not less than once a week. A copy of the current prevailing wage determination issued by the Department of Labor must be included in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The Recipient or Subrecipient, as applicable, must report all suspected or reported violations to the Council.
- B. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act, as supplemented by Department of Labor regulations (29 CFR part 3, “Contracts and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). This Act provides that the Recipient, Subrecipient, contractor, or subcontractor must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation or which he or she is otherwise entitled. The Recipient or Subrecipient, as applicable, must report all suspected or reported violations to the Council.
- C. Finally, the Contract Work Hours and Safety Standards Act provides work hour standards for every laborer and mechanic employed by any contractor or subcontractor in the performance of a Federal public works project. All contracts awarded in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for

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compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR part 5). Under 40 U.S.C. § 3702, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic be required to work in surroundings or under working conditions that are unsanitary, hazardous, or dangerous.

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FUNDING AUTHORIZATION

Amount of Financial Assistance	Amount of Funding Restriction	Amount of Funding Added to Award	Amount Authorized for ASAP Account	Notes
\$5,350,117.00	\$5,195,000.00		\$155,117.00	Funding for construction to be released upon meeting pre-construction and environmental compliance requirements (See SAC 6)

REPORTING SCHEDULE

Reporting Task	Task Due Date
Financial Report	10/30/2020
Financial Report	4/30/2021
Performance Report	4/30/2021
Financial Report	10/30/2021
Financial Report	4/30/2022
Performance Report	4/30/2022
Financial Report	10/30/2022
Financial Report	4/30/2023
Performance Report	4/30/2023
Final Report	12/29/2023

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SCOPE OF WORK

PROJECT TITLE: State Expenditure Plan #23: Orange Beach North Sewer Force Main Upgrade

EGID: 122

ANTICIPATED START DATE: 4/1/2020

FUNDING REQUESTED: \$5,350,117.00

PROPOSED END DATE: 9/30/2023

PROJECT DESCRIPTION:

- This project consists of the construction of approximately 8 miles of sewer force main from a point on Highway 180 in Orange Beach to an existing lift station on County Road 12.
- This project will serve current development that is served by the main to be replaced and will provide the ability to serve large areas of undeveloped property and low-density development adjacent to Wolf Bay. An AL.com article posted on April 18, 2019, "Rural No More: Baldwin County Now Fifth in Population" states that Baldwin County experienced a 20% population growth in the 8 years between 2010 and 2018. The article sources data from the US Census. The area served by this project is considered to have good development potential along the Baldwin Beach Express corridor and surrounding areas. The current system is not capable of supporting any significant new development. Without this project, septic systems would be the only current option to serve these undeveloped areas.
- The EPA Septic Systems Overview states: "Septic systems that are properly planned, designed, sited, installed, operated and maintained can provide excellent wastewater treatment. However, systems that are sited in densities that exceed the treatment capacity of regional soils and systems that are poorly designed, installed, operated or maintained can cause problems. The most serious documented problems involve contamination of surface waters and groundwater with disease-causing pathogens and nitrates. Other problems include excessive nitrogen discharges to sensitive coastal waters and phosphorus pollution of inland surface waters, which increases algal growth and lowers dissolved oxygen levels. Contamination of important shellfish beds and swimming beaches by pathogens is a concern in some coastal regions."
- The existing force main has served several subdivisions and a small number of individual residences along the force main route. This has helped protect the coastal waters and groundwater from the effects of poorly maintained septic systems over the years. The new system will offer this protection on a larger scale to keep up with anticipated growth in the area.

Methodology / Approach

- The City of Orange Beach sewer collection system currently serves areas north of the Intracoastal Waterway around the perimeter of Wolf Bay and the Josephine area.
- This project will function to prevent potential water quality degradation by replacing a sewer force main that is nearing the end of useful life and to provide sewer service that will be better capable of accommodating future development of a largely undeveloped area. Water quality is currently and will continue to be monitored by the Baldwin County Public Health Department. Continued water quality over time will verify that the project is performing as planned.
- This portion of the sewer collection system relies on approximately 8 miles of DR 32.5 High Density Polyethylene (HDPE) pipe that was installed in 1987 and appears to be nearing the end of its useful life.
- Failure to address this force main will increase the likelihood of failure and the resulting contamination of the Wolf Bay watershed. In addition, the area served by the force appears to be receiving increased

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development interest. Without sewer main improvement, development will be significantly limited and there will be increase reliance on on-site septic systems. Failures in the existing main and the increased use of on-site septic systems will have a negative impact on water quality of Wolf Bay.

- The City of Orange Beach owns and operates a 10 MGD wastewater facility that went into service in 2011. The collection system features approximately 125 miles of sewer mains and 25 major pump stations. City staff includes numerous certified wastewater operators and a professional engineer with over 30 years of experience in various aspects of the water and wastewater industry.

Roles and Responsibilities Table

Organization / Agency / Company	Role	Duties
Alabama Department of Conservation & Natural Resources	Grant recipient – project implementation	Grant application preparation, grant management, performance and financial monitoring and reporting, subrecipient agreement development, procurement reviews, fiscal reviews
City of Orange Beach	ADCNR Subrecipient	Engineering, permitting, construction management, operation and maintenance
(Unknown)	Contractor to construct project	Construction

Location

This project will take place on Highway 80 in Orange Beach, Alabama. The area benefitted by this upgrade will include areas north and east of Wolf Bay to Josephine as well as areas directly served by the force main (Figure 1).

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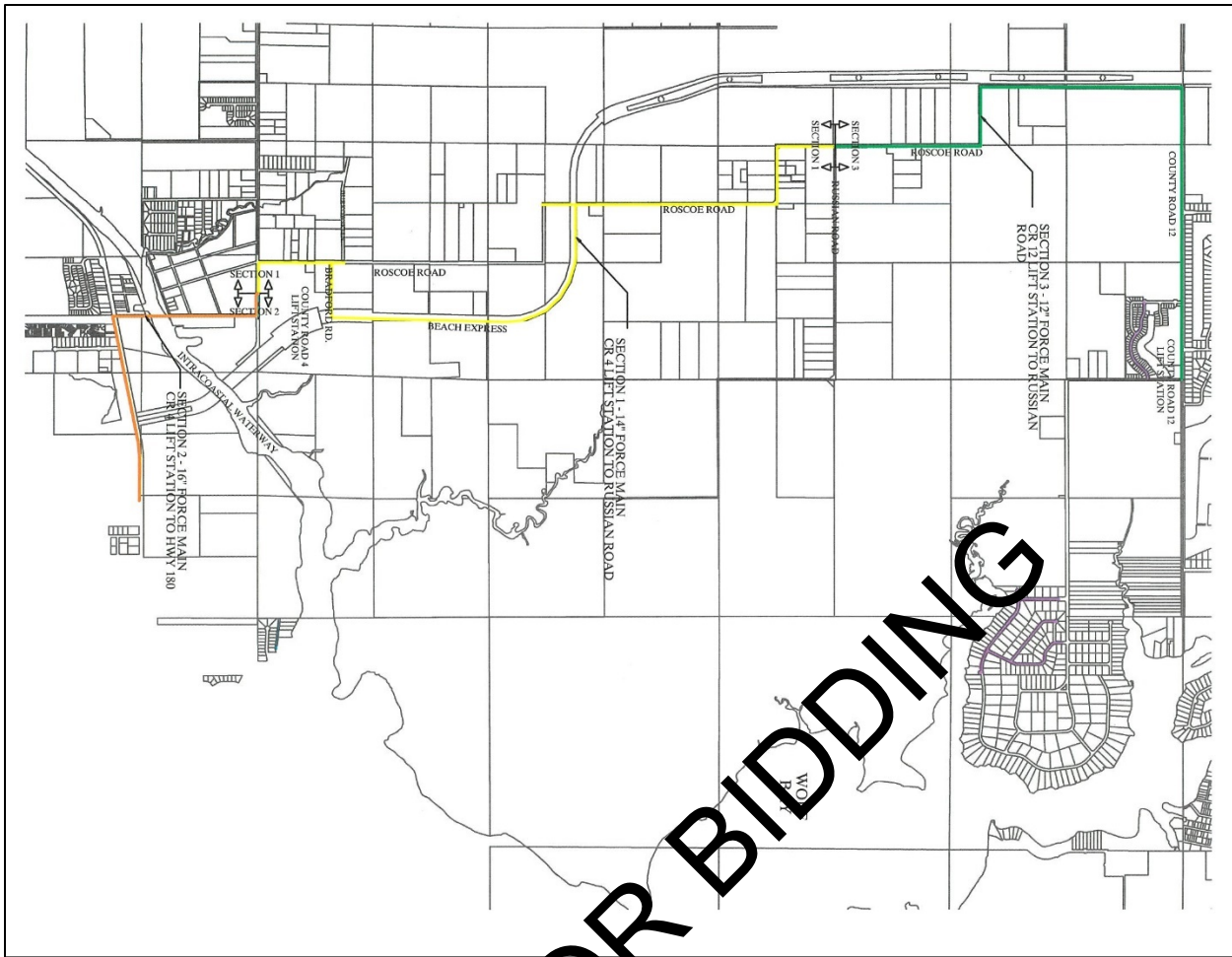


Figure 1 Project Location

- This project is expected to take 42 months plus award.
- Supporting Information (Best Available Science) – Restoration and improvement of the quality of water, as a natural resource, will benefit the marine/coastal ecosystems, habitats, and fisheries, as well as the economy of the Alabama Gulf Coast Region. Water quality degradation in coastal systems is a global phenomenon (Benner et al., 2001; Vörösmarty et al., 2010; Lymer et al., 2018) that is not only limited to nutrient pollution and associated hypoxia (Diaz and Rosenberg, 2008) but is also tied to enhanced bacteriological concentrations and loads (Mallin et al., 2000; O’Mullan et al., 2019). There are numerous freshwater inputs into Alabama bays and estuaries that result in alterations to water quality. This change in water quality is often associated with changes in water column conditions (i.e., hypoxia, eutrophication, and bacterial loads) and can lead to the body of water not meeting its intended use (i.e., recreation or fishery) (Mallin et al., 2000; Pennington and Cech, 2010; Spellman, 2010). The most visible water quality degradation is often associated with urban runoff, as well as discharge and sanitary sewer overflow issues, all of which are associated with wastewater management. The EPA estimates that there are at least 23,000 – 75,000 sanitary sewer overflows (SSOs) per year in the U.S. (EPA, N.D.), many of which are not specifically associated with impaired water listings, TMDLs, or other criteria. These urban wastewaters connect directly to coastal marshes and Alabama coastal waterways through canals and bayous. There are numerous studies and governmental reports that point to SSOs impacting and contributing to decreases in water quality, beach closures, shellfish bed closures, and other environmental problems (e.g., EPA, 2004).

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To improve water quality entering Alabama coastal waters, the following objectives are set forth:

- Engineering, design, and permitting of the identified solutions (standard engineering practices, including certified and stamped plans). Depending on the system upgrade (conventional gravity sewers, pumping stations, treatment works, etc.), repair or construction, standard engineering principles or guidelines will differ. Specific engineering guidelines will be informed by State agency policy decisions.
- Additional resources on new technologies tied to upgrades and improvements to wastewater collection systems (Sterling et al., 2010; FDEP, 2018) may be considered based on system circumstances, environmental and permitting regulations and restrictions.
- Implementation of designed stormwater and wastewater improvement practices. Implementation will follow standard construction and environmental practices, and any other applicable state and federal requirements (Walsh et al., 2005a, b; Hogan and Walbridge, 2007; Walsh et al., 2016).
- Water quality is currently and will continue to be monitored by the Baldwin County Public Health Department. Continued water quality over time will verify that the project is performing as planned.

Approach

This project will replace the existing force main with modern materials that are properly sized for current and future development. The City of Orange Beach is providing all engineering design, permitting, and construction management for the project. It is anticipated that the project will be completed under a single construction contract.

Pre-award – Grant Development

The Alabama Gulf Coast Recovery Council (AGCRC) Executive Director is responsible for coordinating and implementing all activities undertaken for project submission, selection, and funding awards for Spill Impact Component RESTORE Act funding. The Executive Director began working with the RESTORE Project Manager on September 9, 2019, after approval of the SEP, to develop the Orange Beach North Sewer grant application for submission into PAAMS.

Task 1 – Grant Administration

ADCNR, as Administrative Agent for the Alabama Gulf Coast Recovery Council, will serve as Grant Administrator for the project, monitoring subrecipient procurement, grant compliance, and programmatic activities. ADCNR will conduct periodic onsite visits and will submit all semi-annual and final reports. Volkert, Inc., as ADCNR's Program Manager, may assist with some of the activities listed above on an as-needed, task order basis. Once substantial completion has been reached by the Subrecipient, and upon favorable review by ADCNR, ADCNR will initiate and submit all required documentation to begin and conclude the grant closeout process in compliance with 2 CFR Part 200 and applicable regulations. Final drawdown and federal financial report will be completed upon instruction by the RESTORE Council.

Task 2 – Construction

- The project will be constructed in 3 sections:
 - New 14" force main from the existing lift station on County Road 4 along the Beach Express and Roscoe road to Russian Road.
 - Installation of a 16" force main from the lift station on County Road 4 to existing piping on Highway 180. This includes a directional bore beneath the Intracoastal Waterway.

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- New 12” force main along Roscoe Road from Russian Road to an existing lift station on County Road 12.
- New piping that will replace deficient piping will be in accordance with current industry standards. Portions of the work will be completed using horizontal directional drilling. This will be used to bore under the Intracoastal Canal, improved roadways, and areas where wetlands or other obstacles are encountered.
- All work will be bid in accordance with applicable Alabama State Bid Laws.
- Contractor will be monitored with daily inspections by city engineer who is a licensed professional engineer in the State of Alabama.

All work will be performed on existing right of way or easements. Permits will be applied for as the final design is completed. The City of Orange Beach is proceeding with the final design and permitting. We anticipate that all permits will be applied for by February 2020. These permits should be routine in nature. Priority will be given to the permit for the bore beneath the Intracoastal Waterway which has the longest anticipated approval process.

- Permits will be acquired from:
 - Alabama Department of Transportation (state right of way work)
 - Baldwin County Highway Department (county right of way work)
 - Alabama Department of Environmental Management (storm water permits)
 - U.S. Army Corps of Engineers (horizontal bore work under the Intercoastal Waterway)

The estimated useful life for the force main is 50 years based on industry standards for the materials proposed. Unknown future development may at some point require additional infrastructure to supplement improvements proposed in this project. The City of Orange Beach will operate and maintain the force main for its useful life.

Project Timeline

Award Date

Milestone #1 – Project Management (Award + 42 months)

Milestone #2 – Construction (Award + 42 months)

Section 1 – Award + 24 months

Section 2 – Award + 30 months

Section 3 – Award + 36 months

Project Completion – Award + 42 Months

Risks and Uncertainties

Construction will be primarily along highway right of way. The primary risks to the public during construction will be from traffic interaction with the construction zone. All access to the work area and traffic control will be in accordance with established Alabama Department of Transportation standards. Secondary risks may involve stormwater runoff from the construction areas. Alabama Department of Environmental Management stormwater management guidelines will be followed to minimize any issues relating to potential stormwater runoff during construction. Other potential risks could occur involving potential sewage leaks when working near or transferring services from the existing force main. We have a connection with an adjacent utility (Baldwin County Sewer Service) on County Road 12 that allows either utility to divert flow to the other for a short time in

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case of an emergency. With the flow diverted, repairs can be quickly be made and any released wastewater is removed with city owned vacuum trucks. Areas where leaks occur are disinfected with calcium hypochlorite as part of the cleanup. The interconnection with Baldwin County Sewer Service will be maintained when the new force main is in place.

- Operational risks are typical of most utility construction projects and include:
 - Potential damage to existing utilities. Damage to other utilities is mitigated by line locations and coordination with other utilities.
 - Issues relating to storm water runoff in excavated areas during construction. Runoff issues are mitigated by typical best management practices for erosion and sediment control and the selected use of horizontal directional bores when crossing canals, streams wetlands, improved roadways, or other obstacles that make installation by open cut impractical.
- Sea level rise and storm surge are two risks and uncertainties to project implementation performance. Given the variability in sea level rise prediction as well as the anticipated immediate ecosystem service benefits of the implementation of sewer and wastewater infrastructure, is unlikely that pipe infrastructure implementation will consider sea-level rise. However, with respect to storm surge, certain upgrades (i.e., pump stations, backflow valves, electrical connections etc.) could be based on storm surge predictions and to ensure lack of failure under those conditions.

All work associated with this project will be buried and will not be affected by storm surge. One existing lift station in the project area (County Road 4) will remain in service that could potentially be subject to storm surge. It features submersible pumps with all above ground panels and connections in Nema 4X enclosures. This lift station is similar to lift stations in beachfront areas that have experienced storm surge due to severe tropical storms. Based on experience with other lift stations, any potential storm surge impacts to this lift station should be minimal. The system should is anticipated to function as normal with additional run times on the pumps to accommodate any inflow that may come around the hatch seals or vent piping.

Leveraged Funds

The City of Orange beach has used \$19,651 in City-appropriated funds to accomplish the preliminary survey (\$9,000) and additional survey, initial design and environmental compliance (\$10,651) to move this project forward. This work is complete and all consultants have been paid. In addition, the City appropriated funds and entered into a contract with Godwyn, Mills & Cawood, Inc. for final design, permitting, and construction administration. Work has started on this contract. The value of the contract is expected to be \$490,000. Total amount of all of this activity is \$509,651.

Metrics

- RES002 - # upgrades to stormwater and/or wastewater systems

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BUDGET NARRATIVE

1.0 Summary and Justification

- Funding in the amount of \$5,350,117 is being requested. The amount is an estimate based on previous projects with similar scopes of work.
- This project will replace the existing force main with modern materials that are properly sized for current and future development. The project will be constructed in 3 sections.

TOTAL PROJECT OR PROGRAM FUNDS REQUESTED \$5,350,117

Total Pre-Award Funds Requested \$5,136

Total Direct Costs Requested \$5,338,616

Total Allowable Indirect Costs Requested \$11,501

Total Program Income Anticipated \$0

2.0 Pre-Award Costs

The Alabama Gulf Coast Recovery Council’s (AGCRC) Biologist IV, dedicated approximately 50 hours and the Grants Manager/Biologist III dedicated approximately 50 hours to the draft grant application prior to award. Therefore, estimated pre-award costs for developing the grant application are \$5,136 (salary & fringe).

Pre-award activities started on October 1, 2019.

3.0 Budget Object Classes Applicable to All Projects and Programs – DIRECT COSTS

3.1 Personnel

Alabama Gulf Coast Recovery Council (AGCRC) Executive Director is responsible for coordinating and implementing all activities undertaken for project submission, selection, and funding awards for RESTORE Act funding. The Executive Director will provide support for RESTORE Act activities including, but not limited to, subrecipient monitoring; participating in meetings and conference calls, as needed; reviewing subrecipient agreements, procurement documents, contracts, reports, and all other necessary documents for grant administration. Time is traced using CORONA, which allows employees to input tasks by project. The timesheets are electronically approved by assigned supervisors.

ADCNR Deepwater Horizon (DWH) Restoration Coordinator/Biologist IV will provide support for RESTORE Act activities including, but not limited to, subrecipient monitoring; participating in meetings and conference calls, as needed; reviewing subrecipient agreements, procurement documents, contracts, reports, and all other necessary documents for grant administration. Time is tracked using CORONA, which allows employees to input tasks by project. The timesheets are electronically approved by assigned supervisors.

Grants Manager/Biologist III will assist in preparing draft proposals for the Executive Director review, developing budgets and expense details, monitoring, reviewing subrecipient reports and invoices, submitting semi-annual reports and reimbursements to RESTORE Council, and participating in meetings and conference calls as needed. Time is tracked using CORONA, which allows employees to input tasks by project. The timesheets are electronically approved by assigned supervisors.

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Grants Coordination Officer will provide support for RESTORE Act activities including, but not limited to, all federal grant compliance requirements and subrecipient monitoring. Time is tracked using CORONA, which allows employees to input tasks by project. The timesheets are electronically approved by assigned supervisors.

Administrative Assistant will provide general office support for the Executive Director and Grants Manager/Biologist III as needed. Time is tracked using CORONA, which allows employees to input tasks by project. The timesheets are electronically approved by assigned supervisors.

ADCNR Personnel Staff - Time

Position/Role	Duties and Responsibilities	Unit Cost (Salary)	Units or % Time	Total	Pre-Award Costs?
DWH Restoration Coordinator / Biologist IV	Coordinating and supporting all staff in submission of RESTORE Act grants	\$97,696	50 hours	\$2,348	Pre-Award
Grants Manager / Biologist III	Prepare documents for all activities for Spill Impact Component RESTORE Act funding	\$58,128	50 hours	\$1,397	Pre-Award
AGCRC Executive Director	Coordinating and implementing all activities for Spill Impact Component RESTORE Act funding	\$105,866	1%	\$3,705	
DWH Restoration Coordinator / Biologist IV	Coordinating and supporting all staff in submission of RESTORE Act grants	\$97,696	3%	\$10,258	
Grants Manager / Biologist III	Prepare documents for all activities for Spill Impact Component RESTORE Act funding	\$58,128	5%	\$10,172	
Grants Coordination Officer	Provide general office support	\$62,530	1.5%	\$3,283	
Administrative Assistant	Provide general office support	\$36,492	2%	\$2,554	

TOTAL PERSONNEL: \$33,717

3.2 Fringe Benefits

This includes FICA, cost of leave, employee insurance, retirement and unemployment benefit plans. The fringe rate percentage varies by employee and will also vary from year to year based upon federal guidance and the state legislative process.

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ADCNR Personnel Staff - Fringe

Position (s)	Total Compensation (life of project)	Fringe %	Total Fringe Benefit (life of project)	Pre-Award Costs?
DWH Restoration Coordinator / Biologist IV	\$2,348	34.4	\$808	Pre-Award
Grants Manager / Biologist III	\$1,397	41.7	\$583	Pre-Award
AGCRC Executive Director	\$3,705	32.7	\$1,212	
DWH Restoration Coordinator / Biologist IV	\$10,258	34.4	\$3,529	
Grants Manager / Biologist III	\$10,172	41.7	\$4,245	
Grants Coordination Officer	\$3,283	51.8	\$1,701	
Administrative Assistant	\$2,554	55.6	\$1,421	

TOTAL FRINGE BENEFITS: \$13,499

3.3 Travel

Grants Manager/Biologist III will travel 9 times (approx. three trips) per year) to the work site. Work site trip will be used to ensure scope of work if being followed and invoices reflect work completed.

Purpose of Travel	Destination	# Trips	# Travelers	Item	Quantity or Rate	Total	Pre-Award Costs?
Project Oversight	Orange Beach, AL	9	1	Mileage	\$0.59 per mile	\$526.50	

TOTAL TRAVEL: \$526.50

3.4 Construction and Land Acquisition

No construction or land acquisition costs are being requested.

3.5 Equipment

No equipment is expected to be purchased.

3.6 Supplies

Postage funds will be used to send grant related correspondence, as needed, to contractors and subrecipient.

Item Name Description	Unit Cost	Quantity	Total	Pre-Award Costs?
Postage	\$100	1	\$100	

TOTAL SUPPLIES: \$100

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3.7 Other Direct Costs

No other direct costs will be applied for.

3.8 Subrecipients

The City of Orange Beach will be a sub-recipient to the Alabama Department of Conservation and Natural Resources. A subaward agreement will be issued for \$5,195,000 to complete the scope of work. Prior to execution of a subaward, ADCNR will develop a subrecipient monitoring plan to provide consistent support and oversight to subrecipients. Elements of this oversight include: the completion of a subrecipient risk assessment; holding a project kick-off meeting to review terms and conditions of the grant, scope of work and how information will be shared; site visits at a frequency determined by the scope of work specifics; and completion of a monthly written progress report by the subrecipient detailing fund expenditures; progress to date and any current or potential issues of concern. ADCNR is also offering quarterly technical assistance workshops to subrecipients as part of their monitoring activities.

1. **Name of Contractor**— TBD

2. **Method of Selection**— Bids will be solicited from qualified contractors following federal procurement standards, applicable Alabama State Bid Laws along with City of Orange Beach procurement standards. Contract costs were estimated from a preliminary design based on typical bid pricing for anticipated quantities. The City's consultant performed an independent estimate in late 2019 and came to within 4% of the original estimate to determine whether the cost estimate was reasonable. If actual costs are in excess of the estimate, the City of Orange Beach will provide additional funding as required.

If cost overruns occur, ADCNS will notify RESTOR Council staff and provide documentation from City of Orange Beach that funds have been appropriated for the total cost overrun expenditures. The grant award will be amended to increase the total budget including the cost overrun expenditure as Co-Funding from the City of Orange Beach.

3. **Period of Performance**— TBD

4. **Scope of Work**—All project administration, engineering and construction inspection will be performed by qualified City of Orange Beach personnel. Survey work will be contracted to one of several consulting engineers in accordance with general services agreements that are currently in place. The cost shown is for construction activities only. This cost includes (but is not limited to) the contractors' labor, materials, bonds, insurance, and all other proper and essential costs required to construct this project. All other costs for the project (including but not limited to Right of Way acquisition, Design and Permitting Services Construction Administration, Construction Engineering and Inspection) will be paid for directly by the City of Orange Beach. The Construction Cost Estimate was generated by calculating the actual unit-based pay items needed to construct the project as shown on the approved plans and specifications/contract documents. Unit costs for the required pay items were then determined based on historical data for the same pay items based on project(s) with similar size, type and location to the subject project. The calculated Units were then multiplied by the unit costs shown from historical projects to determine an estimated construction cost.

Construction - Land, structures, rights-of way, appraisals, etc. – all work will be performed on existing public right-of way or easements currently owned by the City of Orange Beach. No additional costs are anticipated.

Relocation expenses and payments – None anticipated.

Project inspection fees – Project inspection shall be performed by City of Orange Beach engineer and other qualified personnel as part of the City of Orange Beach operational budget.

NOT FOR BIDDING

Site work – Site preparation will include mobilization of material and equipment, as well as earthwork.

Demolition and removal – Costs for any required demolition or removal of existing materials will be included in the site work line item.

Construction – Construction costs are broken into 3 major items, each includes connecting to the existing sewer collection system and a bore beneath the Intracoastal Waterway.

- Approximately 18,750 L.F. of 14” force main from the intersection of Russian Road and Roscoe Road along Roscoe Road and the Beach Express to an existing lift station on County Road 4.
- Approximately 5200 L.F. of 16” force main from an existing lift station on County Road 4 to existing piping on Highway 180. This includes a directional bore beneath the Intracoastal Waterway.
- Approximately 16,000 L.F. of 12” force main from an existing lift station on County Road 12 to the intersection of Russian Road and Roscoe Road.

New piping that will replace deficient piping will be in accordance with current industry standards. Portions of the work will be completed using horizontal directional drilling. This will be used to bore under the Intracoastal Canal, improved roadways, and areas where wetlands or other obstacles are encountered.

5. **Method of Accountability**—Progress and performance of the work will be monitored by the City Engineer, who is a licensed professional engineer in the State of Alabama, and other qualified personnel on a daily basis. Payment will be made only for work that has been completed to the satisfaction of the City Engineer. Retainage will be held until the project is substantially complete in accordance with Alabama law. In addition, the contractor will be required to provide a bond to insure completion of the work in a satisfactory manner.

TOTAL SUB-RECIPIENT: \$5,195,000 for Construction activities

3.9 Contractors/Consultants

Volkert & Associates Inc.

ADCNR followed State procurement policies and procedures (Code of Alabama 1975 – Article 2 – State Bid Laws (41-16-20) to identify and select Volkert & Associates Inc. (Volkert) to provide DWH Program Management Services as needed (contract awarded 2/17/17). ADCNR estimates \$95,773.29 in contract costs for Volkert for this project. Volkert services may be used to provide technical expertise in overall grant administration support. Volkert services will be secured through task orders and reimbursed based upon actual time committed to the project. This estimate represents the top of the range.

1. **Method of Selection**—Volkert & Associates Inc. was selected as a result of a Request for Proposal procurement process.
2. **Period of Performance**—March 2, 2017 - March 2, 2021
3. **Scope of Work**—Volkert services may be used to provide program management services, including engineering, planning, environmental and construction management and other technical services on an as-needed basis to support restoration efforts on the Alabama coast.
4. **Method of Accountability**—Contractor will bill ADCNR monthly for services performed.

NOT FOR BIDDING

5. Itemized Budget and Justification—Scope of services, approved documents, an itemized budget will be provided as requested by ADCNR.

Contractual

Organization	Description	Amount	Pre-Award Costs?
Volkert & Associates Inc.	Contracted Technical Support	\$95,773.29	

TOTAL CONTRACTUAL: \$95,773.29

4.0 Budget Object Classes Applicable to All Projects and Programs – INDIRECT COSTS

INDIRECT, OVERHEAD, OR G&A RATE: 24.09%

BASIS:

Total direct costs, less capital expenditures and passthrough funds. Passthrough funds are normally defined as payments to participants, stipends to eligible recipients, or subawards, all of which normally require minimal administrative effort. Fixed

TOTAL CALCULATED INDIRECT/OVERHEAD COSTS: \$11,501

TOTAL OF INDIRECT COSTS: \$11,501

5.0 Program Income

There is no program income associated with this project.

TOTAL PROGRAM INCOME ANTICIPATED: \$0.00

NOT FOR BIDDING

NOT FOR BIDDING

BUDGET SUMMARY

	Amount
Personnel	\$47,216.00
Personnel	\$33,717.00
Fringe Benefits	\$13,499.00
Travel	\$527.00
Travel	\$527.00
Project Oversight	\$527.00
Construction	\$0.00
Construction management/legal expenses	\$0.00
Land, structures, rights-of-way, appraisals, etc.	\$0.00
Relocation expenses and payments	\$0.00
Architectural and engineering fees	\$0.00
Other architectural and engineering fees	\$0.00
Project inspection fees	\$0.00
Site work	\$0.00
Demolition and removal	\$0.00
Construction	\$0.00
Contingencies	\$0.00
Equipment	\$0.00
Equipment	\$0.00
Supplies	\$100.00
Supplies	\$100.00
Postage	\$100.00
Other Direct Costs	\$0.00
Other Direct Costs	\$0.00
Miscellaneous	\$0.00
Subrecipients and Contractors	\$5,290,773.00
Subrecipient	\$5,195,000.00
City of Orange Beach	\$5,195,000.00
Contractor	\$95,773.00
Volkert & Associates Inc.	\$95,773.00
Total Direct Costs	\$5,338,616.00
Indirect Charges	\$11,501.00
Indirect Charges	\$11,501.00
Total direct costs, less capital expenditures and passthrough funds.	\$11,501.00
Passthrough funds are normally defined as payments to participants, stipends to eligible recipients, or subawards, all of which normally require minimal administrative effort. Fixed	
Total Indirect Costs	\$11,501.00
Total GCERC Costs	\$5,350,117.00
Co-Funding	\$0.00
Co-Funding	\$0.00
Total Project Costs	\$5,350,117.00
Income	\$0.00
Project (program) income	\$0.00

NOT FOR BIDDING

NOT FOR BIDDING

MILESTONES

Milestone	Area of Effort	Description	Start Date	Expected Date	Amount	Deliverable
Project Management	Project Oversight and Grants Management	The ADCNR will provide general project oversight, grant administration and subrecipient monitoring, including closeout. The City of Orange Beach will assign a project manager to provide technical oversight and general project coordination. Grants manager will also be assigned to provide budget and other administrative oversight. Recipient will manage the bid selection process, review all contracted materials to ensure quality of findings, conduct routine site inspections throughout the construction period to ensure compliance with E&D documents and environmental regulations, review scientific monitoring activities and reports, and provide all reports and associated raw data to the Alabama Council for the Data Management Plan. The Contracting Party will conduct monitoring activities consistent with the Observational Data Plan and the Data Management Plan (see ODP and DMP documents attached to this application).	04/01/2020	09/30/2023	\$155,117.00	No
Construction - Section 1	Construction	The Contracting Party will conduct all activities necessary to ensure construction is completed according to E&D plan(s), at cost and on-time. Work will include installation, testing, and placing in service of a 14" force main from Russian Road to the lift station on County Road 4. The Contracting Party will complete a construction completion report, and submit to The City of Orange Beach as part of completion of the project. Deliverable-construction as-builts for Section 1.	04/01/2020	03/30/2022	\$2,200,000.00	Yes
Construction - Section 2	Construction	The Contracting Party will conduct all activities necessary to ensure construction is completed according to E&D plan(s), at cost and on-time. Work will include installation, testing, and placing in service of a 16" force main from the lift station on County Road 4 to an existing 20" main on Hwy 180. This includes a directional bore under the Intracoastal Waterway. The Contracting Party will complete a construction completion report, and submit to	04/01/2020	09/30/2022	\$1,425,000.00	Yes

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Construction - Section 3	Construction	<p>The City of Orange Beach as part of completion of the project. Deliverable-construction as-builts for Section 2.</p> <p>The Contracting Party will conduct all activities necessary to ensure construction is completed according to E&D plan(s), at cost and on-time. Work will include installation, testing, and placing in service of a 12" force main from a lift station on County Road 12 to the new 14" main at Russian Road (completed in earlier milestone). Deliverable-construction as-builts for Section 3.</p>	04/01/2020	09/30/2023	\$1,570,000.00	Yes
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NOT FOR BIDDING

NOT FOR BIDDING

APPROVED METRICS

Template Name:	Community Resilience
Metric Name:	RES002 - Community Resilience - # upgrades to stormwater and/or wastewater systems

Baseline	0.00
Current	0.00
Completion	1.00

Notes:	
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NOT FOR BIDDING

NOT FOR BIDDING

APPENDIX II TO 2 CFR PART 200: CONTRACT PROVISIONS FOR NON-FEDERAL ENTITY CONTRACTS UNDER FEDERAL AWARDS

In addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable.

(A) Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

(B) All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

(C) Equal Employment Opportunity. Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of “federally assisted construction contract” in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, “Equal Employment Opportunity” (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 CFR part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”

(D) Davis-Bacon Act, as amended (40 USC 3141-3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 USC. 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 USC. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

NOT FOR BIDDING

(E) Contract Work Hours and Safety Standards Act (40 USC 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 USC 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5). Under 40 USC 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 USC 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.

(F) Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 CFR §401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.

(G) Clean Air Act (42 USC 7401-7671q.) and the Federal Water Pollution Control Act (33 USC 1251-1387), as amended—Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 USC 7401-7671q) and the Federal Water Pollution Control Act as amended (33 USC 1251-1387). Violations must be reported to the Federal awarding agency and the Regional Office of the Environmental Protection Agency (EPA).

(H) Debarment and Suspension (Executive Orders 12549 and 12689)—A contract award (see 2 CFR 180.220) must not be made to parties listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), “Debarment and Suspension.” SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(I) Byrd Anti-Lobbying Amendment (31 USC 1352)—Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 USC 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award.

(J) See §200.323.

NOT FOR BIDDING

(K) See §200.216.

(L) See §200.322.

NOT FOR BIDDING

NOT FOR BIDDING

**LABOR STANDARDS SUPPLEMENTARY CONDITIONS
TO THE CONSTRUCTION CONTRACT^[FE2]**

The project or program to which the construction work covered by this Contract pertains is funded in whole or in part by the United States of America. The following Federal Labor Standards provisions are included in this contract, as required by provisions applicable to such Federal assistance. Any statute or regulation contained herein shall also include any subsequent amendment or successor statute or regulation. The terms of these Labor Standards Supplementary Conditions takes precedence over all provisions that may be inconsistent with said Labor Standards Supplementary Conditions. The following sections are included in these Labor Standards Supplementary Conditions:

SECTION A: Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction (29 CFR §5.5(a))

SECTION B: Contract Work Hours and Safety Standards Act (29 CFR §5.5(b))

SECTION C: 29 CFR Part 3: CONTRACTORS AND SUBCONTRACTORS ON PUBLIC BUILDING OR PUBLIC WORK FINANCED IN WHOLE OR IN PART BY LOANS OR GRANTS FROM THE UNITED STATES (Anti-Kickback Regulations, Copeland Act)

LISTING OF APPENDICES:

Appendix A – Davis-Bacon Poster (WH-1321)

Appendix B – U. S. Department of Labor Wage and Hour Division Payroll Reporting Form (WH-347)

Appendix C – Instructions for U. S. Department of Labor Wage and Hour Division Payroll Form (WH-347)

Appendix D – Request for Authorization of Additional Classification and Rate (SF-1444)

Appendix E – Labor Standards Interview Form (SF-1445)

**SEE SECTION 00942 OF THE CONTRACT DOCUMENTS FOR THE APPLICABLE
WAGE DETERMINATION**

SECTION A: Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction

29 CFR §5.5(a) – Applies to any contract in excess of \$2,000 which is entered into for the actual construction, alteration and/or repair, including painting and decorating, of a public building or public work, or building or work financed in whole or in part from Federal funds ... and which is subject to the labor standards provisions of any of the acts listed in 29 CFR §5.1.

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(1) *Minimum wages.*

(i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in §5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed.

The wage determination (including any additional classification and wage rates conformed under paragraph (a)(1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii)

(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination.¹ The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

¹ Additional Wage Classifications can be requested by completing a REQUEST FOR AUTHORIZATION OF ADDITIONAL CLASSIFICATION AND RATE (SF-1444). A sample of SF-1444 is included as Appendix D. It can also be accessed from the Wage and Hour Division Web site at <https://www.dol.gov/agencies/whd/government-contracts/construction/forms> or its successor site.

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(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(2) Withholding. ADCNR shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the

NOT FOR BIDDING

contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls, records, and certifications.

(i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii)

(A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the RESTORE Council if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor, or owner, as the case may be, for transmission to ADCNR. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (*e.g.*, the last four digits of the employee's social security number).

The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site.

The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the RESTORE Council if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit them to the applicant, sponsor,

NOT FOR BIDDING

or owner, as the case may be, for transmission to ADCNR, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, sponsor, or owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be provided under §5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under §5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 5;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a)(3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under paragraph (a)(3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the (write the name of the agency) or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

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(4) Apprentices and trainees—

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage

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and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) *Equal employment opportunity.* The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

(5) *Compliance with Copeland Act Requirements.* The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract².

(6) *Subcontracts.* The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the RESTORE Council may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) *Contract termination and debarment.* A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) *Compliance with Davis-Bacon and Related Act Requirements.* All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.

(9) *Disputes concerning labor standards.* Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) *Certification of eligibility.*

(i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

² The requirements of 29 CFR Part 3 can also be found in Section C of these Supplementary Conditions.

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(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

SECTION B: Contract Work Hours and Safety Standards Act

29 CFR §5.5(b) – Applies to certain federally assisted construction contracts over \$100,000 subject to Davis-Bacon and Related Acts wage standards where the Federal Government is not a direct party.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.

(3) Withholding for unpaid wages and liquidated damages. ADCNR shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

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SECTION C: 29 CFR Part 3 – Contractors and Subcontractors on Public Building or Work Financed in Whole or in Part by Loans or Grants from the United States (*Anti-Kickback Regulations, Copeland Act*)

§3.1 Purpose and scope.

This part prescribes “anti-kickback” regulations under section 2 of the Act of June 13, 1934, as amended (40 U.S.C. 276c), popularly known as the Copeland Act. This part applies to any contract which is subject to Federal wage standards and which is for the construction, prosecution, completion, or repair of public buildings, public works or buildings or works financed in whole or in part by loans or grants from the United States. The part is intended to aid in the enforcement of the minimum wage provisions of the Davis-Bacon Act and the various statutes dealing with federally assisted construction that contain similar minimum wage provisions, including those provisions which are not subject to Reorganization Plan No. 14 (e.g., the College Housing Act of 1950, the Federal Water Pollution Control Act, and the Housing Act of 1959), and in the enforcement of the overtime provisions of the Contract Work Hours Standards Act whenever they are applicable to construction work. The part details the obligations of contractors and subcontractors relative to the weekly submission of statements regarding the wages paid on work covered thereby; sets forth the circumstances and procedures governing the making of payroll deductions from the wages of those employed on such work; and delineates the methods of payment permissible on such work.

§3.2 Definitions.

As used in the regulations in this part:

(a) The terms *building* or *work* generally include construction activity as distinguished from manufacturing, furnishing of materials, or servicing and maintenance work. The terms include, without limitation, buildings, structures, and improvements of all types, such as bridges, dams, plants, highways, parkways, streets, subways, tunnels, sewers, mains, powerlines, pumping stations, railways, airports, terminals, docks, piers, wharves, ways, lighthouses, buoys, jetties, breakwaters, levees, and canals; dredging, shoring, scaffolding, drilling, blasting, excavating, clearing, and landscaping. Unless conducted in connection with and at the site of such a building or work as is described in the foregoing sentence, the manufacture or furnishing of materials, articles, supplies, or equipment (whether or not a Federal or State agency acquires title to such materials, articles, supplies, or equipment during the course of the manufacture or furnishing, or owns the materials from which they are manufactured or furnished) is not a *building* or *work* within the meaning of the regulations in this part.

(b) The terms *construction*, *prosecution*, *completion*, or *repair* mean all types of work done on a particular building or work at the site thereof, including, without limitation, altering, remodeling, painting and decorating, the transporting of materials and supplies to or from the building or work by the employees of the construction contractor or construction subcontractor, and the manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the building or work, by persons employed at the site by the contractor or subcontractor.

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(c) The terms *public building* or *public work* include building or work for whose construction, prosecution, completion, or repair, as defined above, a Federal agency is a contracting party, regardless of whether title thereof is in a Federal agency.

(d) The term *building or work financed in whole or in part by loans or grants from the United States* includes building or work for whose construction, prosecution, completion, or repair, as defined above, payment or part payment is made directly or indirectly from funds provided by loans or grants by a Federal agency. The term includes building or work for which the Federal assistance granted is in the form of loan guarantees or insurance.

(e) Every person paid by a contractor or subcontractor in any manner for his labor in the construction, prosecution, completion, or repair of a public building or public work or building or work financed in whole or in part by loans or grants from the United States is *employed* and receiving *wages*, regardless of any contractual relationship alleged to exist between him and the real employer.

(f) The term *any affiliated person* includes a spouse, child, parent or other close relative of the contractor or subcontractor; a partner or officer of the contractor or subcontractor; a corporation closely connected with the contractor or subcontractor as parent, subsidiary, or otherwise, and an officer or agent of such corporation.

(g) The term *Federal agency* means the United States, the District of Columbia, and all executive departments, independent establishments, administrative agencies, and instrumentalities of the United States and of the District of Columbia, including corporations, all or substantially all of the stock of which is beneficially owned by the United States, by the District of Columbia, or any of the foregoing departments, establishments, agencies, and instrumentalities.

§3.3 Weekly statement with respect to payment of wages.

(a) As used in this section, the term *employee* shall not apply to persons in classifications higher than that of laborer or mechanic and those who are the immediate supervisors of such employees.

(b) Each contractor or subcontractor engaged in the construction, prosecution, completion, or repair of any public building or public work, or building or work financed in whole or in part by loans or grants from the United States, shall furnish each week a statement with respect to the wages paid each of its employees engaged on work covered by this part 3 and part 5 of this title during the preceding weekly payroll period. This statement shall be executed by the contractor or subcontractor or by an authorized officer or employee of the contractor or subcontractor who supervises the payment of wages, and shall be on the back of Form WH 347, "Payroll (For Contractors Optional Use)" or on any form with identical wording. Copies of WH 347 may be obtained from the Government contracting or sponsoring agency or from the Wage and Hour Division Web site at <http://www.dol.gov/whd/forms/index.htm> or its successor site.

(c) The requirements of this section shall not apply to any contract of \$2,000 or less.

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(d) Upon a written finding by the head of a Federal agency, the Secretary of Labor may provide reasonable limitations, variations, tolerances, and exemptions from the requirements of this section subject to such conditions as the Secretary of Labor may specify.

§3.4 Submission of weekly statements and the preservation and inspection of weekly payroll records.

(a) Each weekly statement required under §3.3 shall be delivered by the contractor or subcontractor, within seven days after the regular payment date of the payroll period, to a representative of a Federal or State agency in charge at the site of the building or work, or, if there is no representative of a Federal or State agency at the site of the building or work, the statement shall be mailed by the contractor or subcontractor, within such time, to a Federal or State agency contracting for or financing the building or work. After such examination and check as may be made, such statement, or a copy thereof, shall be kept available, or shall be transmitted together with a report of any violation, in accordance with applicable procedures prescribed by the United States Department of Labor.

(b) Each contractor or subcontractor shall preserve his weekly payroll records for a period of three years from date of completion of the contract. The payroll records shall set out accurately and completely the name and address of each laborer and mechanic, his correct classification, rate of pay, daily and weekly number of hours worked, deductions made, and actual wages paid. Such payroll records shall be made available at all times for inspection by the contracting officer or his authorized representative, and by authorized representatives of the Department of Labor.

§3.5 Payroll deductions permissible without application to or approval of the Secretary of Labor.

Deductions made under the circumstances or in the situations described in the paragraphs of this section may be made without application to and approval of the Secretary of Labor:

(a) Any deduction made in compliance with the requirements of Federal, State, or local law, such as Federal or State withholding income taxes and Federal social security taxes.

(b) Any deduction of sums previously paid to the employee as a bona fide prepayment of wages when such prepayment is made without discount or interest. A *bona fide prepayment of wages* is considered to have been made only when cash or its equivalent has been advanced to the person employed in such manner as to give him complete freedom of disposition of the advanced funds.

(c) Any deduction of amounts required by court process to be paid to another, unless the deduction is in favor of the contractor, subcontractor, or any affiliated person, or when collusion or collaboration exists.

(d) Any deduction constituting a contribution on behalf of the person employed to funds established by the employer or representatives of employees, or both, for the purpose of providing either from principal or income, or both, medical or hospital care, pensions or annuities on retirement, death benefits, compensation for injuries, illness, accidents,

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sickness, or disability, or for insurance to provide any of the foregoing, or unemployment benefits, vacation pay, savings accounts, or similar payments for the benefit of employees, their families and dependents: *Provided, however,* That the following standards are met:

(1) The deduction is not otherwise prohibited by law;

(2) It is either:

(i) Voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining of or for the continuation of employment, or

(ii) provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representatives of its employees;

(3) No profit or other benefit is otherwise obtained, directly or indirectly, by the contractor or subcontractor or any affiliated person in the form of commission, dividend, or otherwise; and

(4) The deductions shall serve the convenience and interest of the employee.

(e) Any deduction contributing toward the purchase of United States Defense Stamps and Bonds when voluntarily authorized by the employee.

(f) Any deduction requested by the employee to enable him to repay loans to or to purchase shares in credit unions organized and operated in accordance with Federal and State credit union statutes.

(g) Any deduction voluntarily authorized by the employee for the making of contributions to governmental or quasi-governmental agencies, such as the American Red Cross.

(h) Any deduction voluntarily authorized by the employee for the making of contributions to Community Chests, United Givers Funds, and similar charitable organizations.

(i) Any deductions to pay regular union initiation fees and membership dues, not including fines or special assessments: *Provided, however,* that a collective bargaining agreement between the contractor or subcontractor and representatives of its employees provides for such deductions and the deductions are not otherwise prohibited by law.

(j) Any deduction not more than for the "reasonable cost" of board, lodging, or other facilities meeting the requirements of section 3(m) of the Fair Labor Standards Act of 1938, as amended, and part 531 of this title. When such a deduction is made the additional records required under §516.25(a) of this title shall be kept.

(k) Any deduction for the cost of safety equipment of nominal value purchased by the employee as his own property for his personal protection in his work, such as safety shoes, safety glasses, safety gloves, and hard hats, if such equipment is not required by law to be furnished by the employer, if such deduction is not violative of the Fair Labor Standards Act or prohibited by other law, if the cost on which the deduction is based does

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not exceed the actual cost to the employer where the equipment is purchased from him and does not include any direct or indirect monetary return to the employer where the equipment is purchased from a third person, and if the deduction is either

(1) Voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining of employment or its continuance; or

(2) Provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representatives of its employees.

§3.6 Payroll deductions permissible with the approval of the Secretary of Labor.

Any contractor or subcontractor may apply to the Secretary of Labor for permission to make any deduction not permitted under §3.5. The Secretary may grant permission whenever he finds that:

(a) The contractor, subcontractor, or any affiliated person does not make a profit or benefit directly or indirectly from the deduction either in the form of a commission, dividend, or otherwise;

(b) The deduction is not otherwise prohibited by law;

(c) The deduction is either (1) voluntarily consented to by the employee in writing and in advance of the period in which the work is to be done and such consent is not a condition either for the obtaining of employment or its continuance, or (2) provided for in a bona fide collective bargaining agreement between the contractor or subcontractor and representatives of its employees; and

(d) The deduction serves the convenience and interest of the employee.

§3.7 Applications for the approval of the Secretary of Labor.

Any application for the making of payroll deductions under §3.6 shall comply with the requirements prescribed in the following paragraphs of this section:

(a) The application shall be in writing and shall be addressed to the Secretary of Labor.

(b) The application need not identify the contract or contracts under which the work in question is to be performed. Permission will be given for deductions on all current and future contracts of the applicant for a period of 1 year. A renewal of permission to make such payroll deduction will be granted upon the submission of an application which makes reference to the original application, recites the date of the Secretary of Labor's approval of such deductions, states affirmatively that there is continued compliance with the standards set forth in the provisions of §3.6, and specifies any conditions which have changed in regard to the payroll deductions.

(c) The application shall state affirmatively that there is compliance with the standards set forth in the provisions of §3.6. The affirmation shall be accompanied by a full statement of the facts indicating such compliance.

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(d) The application shall include a description of the proposed deduction, the purpose to be served thereby, and the classes of laborers or mechanics from whose wages the proposed deduction would be made.

(e) The application shall state the name and business of any third person to whom any funds obtained from the proposed deductions are to be transmitted and the affiliation of such person, if any, with the applicant.

§3.8 Action by the Secretary of Labor upon applications.

The Secretary of Labor shall decide whether or not the requested deduction is permissible under provisions of §3.6; and shall notify the applicant in writing of his decision.

§3.9 Prohibited payroll deductions.

Deductions not elsewhere provided for by this part and which are not found to be permissible under §3.6 are prohibited.

§3.10 Methods of payment of wages.

The payment of wages shall be by cash, negotiable instruments payable on demand, or the additional forms of compensation for which deductions are permissible under this part. No other methods of payment shall be recognized on work subject to the Copeland Act.

§3.11 Regulations part of contract.

All contracts made with respect to the construction, prosecution, completion, or repair of any public building or public work or building or work financed in whole or in part by loans or grants from the United States covered by the regulations in this part shall expressly bind the contractor or subcontractor to comply with such of the regulations in this part as may be applicable. In this regard, see §5.5(a) of this subtitle.

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LISTING OF APPENDICES

Appendix A – Davis-Bacon Poster (WH-1321)

The Davis-Bacon poster (WH-1321) **SHALL** be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers (29 CFR §5.5(a)(1)(i)). The Davis-Bacon Poster (WH-1321) is included as Appendix A. It can also be accessed from the Wage and Hour Division Web site at <https://www.dol.gov/agencies/whd/government-contracts/construction/posters> or its successor site.

Appendix B – U. S. Department of Labor Wage and Hour Division Payroll Reporting Form (WH-347)

A sample of Optional Form WH-347 is included as Appendix B. The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <https://www.dol.gov/agencies/whd/government-contracts/construction/forms> or its successor site.

Appendix C – Instructions for U. S. Department of Labor Wage and Hour Division Payroll Form (WH-347)

Instructions for completion of Optional Form WH-347 are included as Appendix C. Instructions can also be accessed from the Wage and Hour Division Web site at <https://www.dol.gov/agencies/whd/government-contracts/construction/forms> or its successor site.

Appendix D – Request for Authorization of Additional Classification and Rate (SF-1444)

Additional Wage Classifications can be requested by completing a Request for Authorization of Additional Classification and Rate (Standard Form 1444). SF-1444 is included as Appendix D. It can also be accessed from the Wage and Hour Division Web site at <https://www.dol.gov/agencies/whd/government-contracts/construction/forms> or its successor site.

Appendix E – Labor Standards Interview (SF-1445)

A sample of the Labor Standards Interview Form (SF-1445) is included as Appendix E. ADCNR will use this form to interview on-site employees at period site visits. This form can be accessed at <https://www.gsa.gov/cdnstatic/SF%201445.pdf?forceDownload=1> or its successor site.

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Appendix A – Davis Bacon Poster (WH-1321)

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EMPLOYEE RIGHTS

UNDER THE DAVIS-BACON ACT

FOR LABORERS AND MECHANICS EMPLOYED ON FEDERAL OR FEDERALLY ASSISTED CONSTRUCTION PROJECTS

PREVAILING WAGES

You must be paid not less than the wage rate listed in the Davis-Bacon Wage Decision posted with this Notice for the work you perform.

OVERTIME

You must be paid not less than one and one-half times your basic rate of pay for all hours worked over 40 in a work week. There are few exceptions.

ENFORCEMENT

Contract payments can be withheld to ensure workers receive wages and overtime pay due, and liquidated damages may apply if overtime pay requirements are not met. Davis-Bacon contract clauses allow contract termination and debarment of contractors from future federal contracts for up to three years. A contractor who falsifies certified payroll records or induces wage kickbacks may be subject to civil or criminal prosecution, fines and/or imprisonment.

APPRENTICES

Apprentice rates apply only to apprentices properly registered under approved Federal or State apprenticeship programs.

PROPER PAY

If you do not receive proper pay, or require further information on the applicable wages, contact the Contracting Officer listed below:

or contact the U.S. Department of Labor's Wage and Hour Division.

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WAGE AND HOUR DIVISION
UNITED STATES DEPARTMENT OF LABOR

1-866-487-9243
TTY: 1-877-889-5627
www.dol.gov/whd



Appendix B – U. S. Department of Labor Wage and Hour Division Payroll Form (WH-347)

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U.S. Department of Labor
Wage and Hour Division

PAYROLL

(For Contractor's Optional Use; See Instructions at www.dol.gov/whd/forms/wh347instr.htm)

Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number.

Rev. Dec. 2008

NAME OF CONTRACTOR OR SUBCONTRACTOR _____ ADDRESS _____ PROJECT OR CONTRACT NO. _____
 OMB No.: 1235-0008
 Expires: 04/30/2021

(1) NAME AND INDIVIDUAL IDENTIFYING NUMBER (e.g., LAST FOUR DIGITS OF SOCIAL SECURITY NUMBER) OF WORKER	(2) EXEMPTIONS OR WITHHOLDING Z	(3) WORK CLASSIFICATION	(4) DAY AND DATE							(5) TOTAL HOURS	(6) RATE OF PAY	(7) GROSS AMOUNT EARNED	(8) DEDUCTIONS			(9) NET WAGES PAID FOR WEEK			
														FICA	WITH- HOLDING TAX		OTHER	TOTAL DEDUCTIONS	

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While completion of Form WH-347 is optional, it is mandatory for covered contractors and subcontractors performing work on Federally financed or assisted construction contracts to respond to the information collection contained in 29 C.F.R. §§ 3.3, 5.5(a). The Copeland Act (40 U.S.C. § 3145) contractors and subcontractors performing work on Federally financed or assisted construction contracts to "furnish weekly a statement with respect to the wages paid each employee during the preceding week." U.S. Department of Labor (DOL) regulations at 29 C.F.R. § 5.5(a)(3)(ii) require contractors to submit weekly a copy of all payrolls to the Federal agency contracting for or financing the construction project, accompanied by a signed "Statement of Compliance" indicating that the payrolls are correct and complete and that each laborer or mechanic has been paid not less than the proper Davis-Bacon prevailing wage rate for the work performed. DOL and federal contracting agencies receiving this information review the information to determine that employees have received legally required wages and fringe benefits.

Public Burden Statement

We estimate that it will take an average of 55 minutes to complete this collection, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. If you have any comments regarding these estimates or any other aspect of this collection, including suggestions for reducing this burden, send them to the Administrator, Wage and Hour Division, U.S. Department of Labor, Room S3502, 200 Constitution Avenue, N.W. Washington, D.C. 20210

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Date _____

I, _____ (Name of Signatory Party) _____ (Title)
do hereby state:

(1) That I pay or supervise the payment of the persons employed by _____ on the _____
(Contractor or Subcontractor); that during the payroll period commencing on the _____
(Building or Work) _____ day of _____, and ending the _____ day of _____, all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said _____

_____ from the full weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 9463 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:
(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS
— in addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

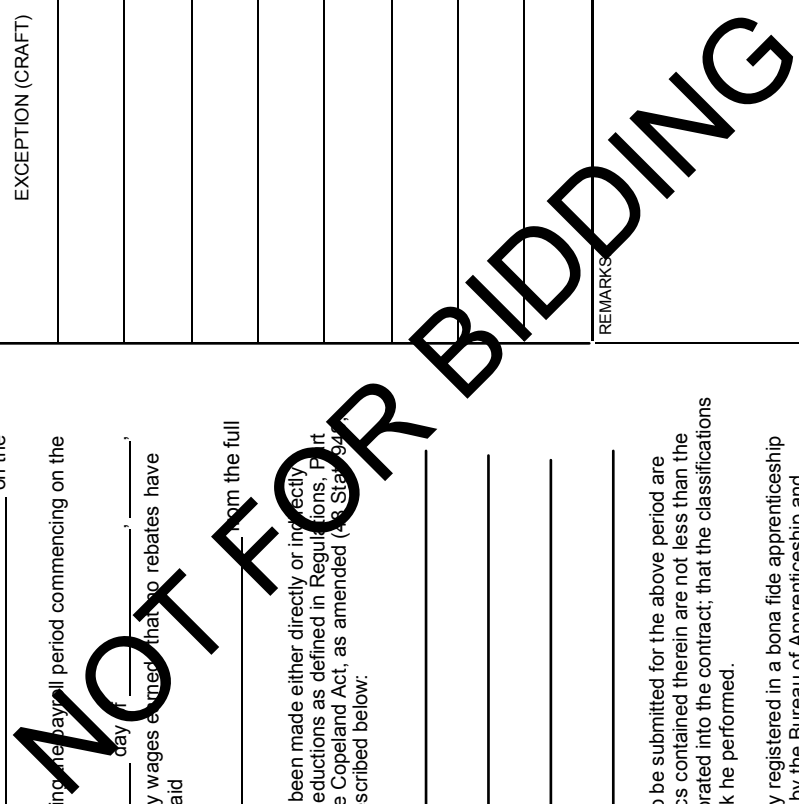
— Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION

REMARKS

NAME AND TITLE	SIGNATURE
THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 231 OF TITLE 31 OF THE UNITED STATES CODE.	



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Appendix C – Instructions for Completing Payroll Form, WH-347

General: Form WH-347 has been made available for the convenience of contractors and subcontractors required by their Federal or Federally-aided construction-type contracts and subcontracts to submit weekly payrolls. Properly filled out, this form will satisfy the requirements of Regulations, Parts 3 and 5 (29 C.F.R., Subtitle A), as to payrolls submitted in connection with contracts subject to the Davis-Bacon and related Acts.

While completion of Form WH-347 is optional, it is mandatory for covered contractors and subcontractors performing work on Federally financed or assisted construction contracts to respond to the information collection contained in 29 C.F.R. §§ 3.3, 5.5(a). The Copeland Act (40 U.S.C. § 3145) requires contractors and subcontractors performing work on Federally financed or assisted construction contracts to "furnish weekly a statement with respect to the wages paid each employee during the preceding week." U.S. Department of Labor (DOL) Regulations at 29 C.F.R. § 5.5(a)(3)(ii) require contractors to submit weekly a copy of all payrolls to the Federal agency contracting for or financing the construction project, accompanied by a signed "Statement of Compliance" indicating that the payrolls are correct and complete and that each laborer or mechanic has been paid not less than the proper Davis-Bacon prevailing wage rate for the work performed. DOL and federal contracting agencies receiving this information review the information to determine that employees have received legally required wages and fringe benefits.

Under the Davis-Bacon and related Acts, the contractor is required to pay not less than prevailing wage, including fringe benefits, as predetermined by the Department of Labor. The contractor's obligation to pay fringe benefits may be met either by payment of the fringe benefits to bona fide benefit plans, funds or programs or by making payments to the covered workers (laborers and mechanics) as cash in lieu of fringe benefits.

This payroll provides for the contractor to show on the face of the payroll all monies to each worker, whether as basic rates or as cash in lieu of fringe benefits, and provides for the contractor's representation in the statement of compliance on the payroll (as shown on page 2) that he/she is paying for fringe benefits required by the contract and not paid as cash in lieu of fringe benefits. Detailed instructions concerning the preparation of the payroll follow:

Contractor or Subcontractor: Fill in your firm's name and check appropriate box.

Address: Fill in your firm's address.

Payroll No.: Beginning with the number "1", list the payroll number for the submission.

For Week Ending: List the workweek ending date.

Project and Location: Self-explanatory.

Project or Contract No.: Self-explanatory.

Column 1 - Name and Individual Identifying Number of Worker: Enter each worker's full name and an individual identifying number (e.g., last four digits of worker's social security number) on each weekly payroll submitted.

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Column 2 - No. of Withholding Exemptions: This column is merely inserted for the employer's convenience and is not a requirement of Regulations, Part 3 and 5.

Column 3 - Work Classifications: List classification descriptive of work actually performed by each laborer or mechanic. Consult classification and minimum wage schedule set forth in contract specifications. If additional classifications are deemed necessary, see Contracting Officer or Agency representative. An individual may be shown as having worked in more than one classification provided an accurate breakdown of hours worked in each classification is maintained and shown on the submitted payroll by use of separate entries.

Column 4 - Hours worked: List the day and date and straight time and overtime hours worked in the applicable boxes. On all contracts subject to the Contract Work Hours Standard Act, enter hours worked in excess of 40 hours a week as "overtime".

Column 5 - Total: Self-explanatory

Column 6 - Rate of Pay (Including Fringe Benefits): In the "straight time" box for each worker, list the actual hourly rate paid for straight time worked, plus cash paid in lieu of fringe benefits paid. When recording the straight time hourly rate, any cash paid in lieu of fringe benefits may be shown separately from the basic rate. For example, "\$12.25/.40" would reflect a \$12.25 base hourly rate plus \$0.40 for fringe benefits. This is of assistance in correctly computing overtime. See "Fringe Benefits" below. When overtime is worked, show the overtime hourly rate paid plus any cash in lieu of fringe benefits paid in the "overtime" box for each worker; otherwise, you may skip this box. See "Fringe Benefits" below. Payment of not less than time and one-half the basic or regular rate paid is required for overtime under the Contract Work Hours Standard Act of 1962 if the prime contract exceeds \$100,000. In addition to paying no less than the predetermined rate for the classification on which an individual works, the contractor must pay amounts predetermined as fringe benefits in the wage decision made part of the contract to approved fringe benefit plans, funds or programs or shall pay as cash in lieu of fringe benefits. See "FRINGE BENEFITS" below.

Column 7 - Gross Amount Earned: Enter gross amount earned on this project. If part of a worker's weekly wage was earned on projects other than the project described on this payroll, enter in column 7 first the amount earned on the Federal or Federally assisted project and then the gross amount earned during the week on all projects, thus "\$163.00/\$420.00" would reflect the earnings of a worker who earned \$163.00 on a Federally assisted construction project during a week in which \$420.00 was earned on all work.

Column 8 - Deductions: Five columns are provided for showing deductions made. If more than five deduction are involved, use the first four columns and show the balance deductions under "Other" column; show actual total under "Total Deductions" column; and in the attachment to the payroll describe the deduction(s) contained in the "Other" column. All deductions must be in accordance with the provisions of the Copeland Act Regulations, 29 C.F.R., Part 3. If an individual worked on other jobs in addition to this project, show actual deductions from his/her weekly gross wage, and indicate that deductions are based on his gross wages.

Column 9 - Net Wages Paid for Week: Self-explanatory.

Totals - Space has been left at the bottom of the columns so that totals may be shown if the contractor so desires.

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Statement Required by Regulations, Parts 3 and 5: While the "statement of compliance" need not be notarized, the statement (on page 2 of the payroll form) is subject to the penalties provided by 18 U.S.C. § 1001, namely, a fine, possible imprisonment of not more than 5 years, or both. Accordingly, the party signing this statement should have knowledge of the facts represented as true.

Items 1 and 2: Space has been provided between items (1) and (2) of the statement for describing any deductions made. If all deductions made are adequately described in the "Deductions" column above, state "*See Deductions column in this payroll.*" *See* "FRINGE BENEFITS" below for instructions concerning filling out paragraph 4 of the statement.

Item 4 FRINGE BENEFITS - Contractors who pay all required fringe benefits: If paying all fringe benefits to approved plans, funds, or programs in amounts not less than were determined in the applicable wage decision of the Secretary of Labor, show the basic cash hourly rate and overtime rate paid to each worker on the face of the payroll and check paragraph 4(a) of the statement on page 2 of the WH-347 payroll form to indicate the payment. Note any exceptions in section 4(c).

Contractors who pay no fringe benefits: If not paying all fringe benefits to approved plans, funds, or programs in amounts of at least those that were determined in the applicable wage decision of the Secretary of Labor, pay any remaining fringe benefit amount to each laborer and mechanic and insert in the "straight time" of the "Rate of Pay" column of the payroll an amount not less than the predetermined rate for each classification plus the amount of fringe benefits determined for each classification in the applicable wage decision. Inasmuch as it is not necessary to pay time and a half on cash paid in lieu of fringe benefits, the overtime rate shall be not less than the sum of the basic predetermined rate, plus the half time premium on basic or regular rate, plus the required cash in lieu of fringe benefits at the straight time rate. In addition, check paragraph 4(b) of the statement on page 2 the payroll form to indicate the payment of fringe benefits in cash directly to the workers. Note any exceptions in section 4(c).

Use of Section 4(c), Exceptions: Any contractor who is making payment to approved plans, funds, or programs in amounts less than the wage determination requires is obliged to pay the deficiency directly to the covered worker as cash in lieu of fringe benefits. Enter any exceptions to section 4(a) or 4(b) in section 4(c). Enter in the Exception column the craft, and enter in the Explanation column the hourly amount paid each worker as cash in lieu of fringe benefits and the hourly amount paid to plans, funds, or programs as fringe benefits. The contractor must pay an amount not less than the predetermined rate plus cash in lieu of fringe benefits as shown in section 4(c) to each such individual for all hours worked (unless otherwise provided by applicable wage determination) on the Federal or Federally assisted project. Enter the rate paid and amount of cash paid in lieu of fringe benefits per hour in column 6 on the payroll. See paragraph on "Contractors who pay no fringe benefits" for computation of overtime rate.

Public Burden Statement: We estimate that it will take an average of 55 minutes to complete this collection of information, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. If you have any comments regarding these estimates or any other aspect of this collection of information, including suggestions for reducing this burden, send them to the Administrator, Wage and Hour Division, U.S. Department of Labor, Room S3502, 200 Constitution Avenue, N.W., Washington, D.C. 20210.

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Appendix D – Request for Authorization of Additional Classification and Rate (SF-1444)

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**REQUEST FOR AUTHORIZATION OF
ADDITIONAL CLASSIFICATION AND RATE**

CHECK APPROPRIATE BOX
 SERVICE CONTRACT
 CONSTRUCTION CONTRACT

OMB Control Number: 9000-0066
Expiration Date: 4/30/2022

Paperwork Reduction Act Statement - This information collection meets the requirements of 44 U.S.C. § 3507, as amended by section 2 of the Paperwork Reduction Act of 1995. You do not need to answer these questions unless we display a valid Office of Management and Budget (OMB) control number. The OMB control number for this collection is 9000-0066. We estimate that it will take .5 hours to read the instructions, gather the facts, and answer the questions. Send only comments relating to our time estimate, including suggestions for reducing this burden, or any other aspects of this collection of information to: U.S. General Services Administration, Regulatory Secretariat Division (M1V1CB), 1800 F Street, NW, Washington, DC 20405.

INSTRUCTIONS: THE CONTRACTOR SHALL COMPLETE ITEMS 3 THROUGH 16, KEEP A PENDING COPY, AND SUBMIT THE REQUEST, IN QUADRUPPLICATE, TO THE CONTRACTING OFFICER.

1. TO: ADMINISTRATOR, WAGE AND HOUR DIVISION U.S. DEPARTMENT OF LABOR WASHINGTON, DC 20210	2. FROM: (REPORTING OFFICE)
---	------------------------------------

3. CONTRACTOR	4. DATE OF REQUEST
---------------	--------------------

5. CONTRACT NUMBER	6. DATE BID OPENED (SEALED BIDDING)	7. DATE OF AWARD	8. DATE CONTRACT WORK STARTED	9. DATE OPTION EXERCISED (IF APPLICABLE) (SERVICE CONTRACT ONLY)
--------------------	-------------------------------------	------------------	-------------------------------	--

10. SUBCONTRACTOR (IF ANY)

11. PROJECT AND DESCRIPTION OF WORK (ATTACH ADDITIONAL SHEET IF NEEDED)

12. LOCATION (CITY, COUNTY, AND STATE)

13. IN ORDER TO COMPLETE THE WORK PROVIDED FOR UNDER THE ABOVE CONTRACT IT IS NECESSARY TO ESTABLISH THE FOLLOWING RATE(S) FOR THE INDICATED CLASSIFICATION(S) NOT INCLUDED IN THE DEPARTMENT OF LABOR DETERMINATION

NUMBER: _____ DATED: _____

a. LIST IN ORDER: PROPOSED CLASSIFICATION TITLE(S); JOB DESCRIPTION(S); DUTIES AND RATIONALE FOR PROPOSED CLASSIFICATIONS (Service contracts only) <i>(Use reverse or attach additional sheets, if necessary)</i>	b. WAGE RATE(S)	c. FRINGE BENEFITS PAYMENTS
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14. SIGNATURE AND TITLE OF SUBCONTRACTOR REPRESENTATIVE (IF ANY)	15. SIGNATURE AND TITLE OF PRIME CONTRACTOR REPRESENTATIVE
--	--

16. SIGNATURE OF EMPLOYEE OR REPRESENTATIVE	TITLE	CHECK APPROPRIATE BOX-REFERENCING BLOCK 13. <input type="checkbox"/> AGREE <input type="checkbox"/> DISAGREE
---	-------	---

TO BE COMPLETED BY CONTRACTING OFFICER (CHECK AS APPROPRIATE - SEE FAR 22.1019 (SERVICE CONTRACT LABOR STANDARDS) OR FAR 22.406-3 (CONSTRUCTION WAGE RATE REQUIREMENTS))

- THE INTERESTED PARTIES AGREE AND THE CONTRACTING OFFICER RECOMMENDS APPROVAL BY THE WAGE AND HOUR DIVISION. AVAILABLE INFORMATION AND RECOMMENDATIONS ARE ATTACHED.
- THE INTERESTED PARTIES CANNOT AGREE ON THE PROPOSED CLASSIFICATION AND WAGE RATE. A DETERMINATION OF THE QUESTION BY THE WAGE AND HOUR DIVISION IS THEREFORE REQUESTED. AVAILABLE INFORMATION AND RECOMMENDATIONS ARE ATTACHED.
(Send 3 copies to the Department of Labor)

SIGNATURE OF CONTRACTING OFFICER OR REPRESENTATIVE	TITLE AND COMMERCIAL TELEPHONE NUMBER	DATE SUBMITTED
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Appendix E – Labor Standards Interview Form (SF-1445)

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LABOR STANDARDS INTERVIEW

CONTRACT NUMBER				EMPLOYEE INFORMATION				
NAME OF PRIME CONTRACTOR				LAST NAME		FIRST NAME		MI
				STREET ADDRESS				
NAME OF EMPLOYER				CITY		STATE	ZIP CODE	
				SUPERVISOR'S NAME		WORK CLASSIFICATION		WAGE RATE
LAST NAME		FIRST NAME		MI				

ACTION	CHECK BELOW	
	YES	NO
Do you work over 8 hours per day?		
Do you work over 40 hours per week?		
Are you paid at least time and a half for overtime hours?		
Are you receiving any cash payments for fringe benefits required by the posted wage determination decision?		
WHAT DEDUCTIONS OTHER THAN TAXES AND SOCIAL SECURITY ARE MADE FROM YOUR PAY?		

HOW MANY HOURS DID YOU WORK ON YOUR LAST WORK DAY BEFORE THIS INTERVIEW?	TOOLS YOU USE
DATE OF LAST WORK DAY BEFORE INTERVIEW (YYMMDD)	
DATE YOU BEGAN WORK ON THIS PROJECT (YYMMDD)	

THE ABOVE IS CORRECT TO THE BEST OF MY KNOWLEDGE

EMPLOYEE'S SIGNATURE			DATE (YYMMDD)
INTERVIEWER	SIGNATURE	TYPED OR PRINTED NAME	DATE (YYMMDD)

INTERVIEWER'S COMMENTS

WORK EMPLOYEE WAS DOING WHEN INTERVIEWED	ACTION <i>(If explanation is needed, use comments section)</i>	YES	NO
	IS EMPLOYEE PROPERLY CLASSIFIED AND PAID?		
	ARE WAGE RATES AND POSTERS DISPLAYED?		

FOR USE BY PAYROLL CHECKER

IS ABOVE INFORMATION IN AGREEMENT WITH PAYROLL DATA?
 YES NO

COMMENTS

CHECKER			
LAST NAME	FIRST NAME	MI	JOB TITLE
SIGNATURE			DATE (YYMMDD)

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PROCUREMENT OF RECOVERED MATERIALS

The contractor must comply with federal regulations regarding procurement of recovered materials found at 2 CFR §200.323.

2 CFR §200.323 requires the Project Owner and its contractors to comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

40 CFR §247.12 designates the following Construction Products:

(a) Building insulation products, including the following items.

- (1) Loose-fill insulation, including but not limited to cellulose fiber, mineral fibers (fiberglass and rock wool), vermiculite, and perlite;
- (2) Blanket and batt insulation, including but not limited to mineral fibers (fiberglass and rock wool);
- (3) Board (sheathing, roof decking, wall panel) insulation, including but not limited to structural fiberboard and laminated paperboard products, perlite composite board, polyurethane, polyisocyanurate, polystyrene, phenolics, and composites; and
- (4) Spray-in-place insulation, including but not limited to foam-in-place polyurethane and polyisocyanurate, and spray-on cellulose.

(b) Structural fiberboard and laminated paperboard products for applications other than building insulation, including building board, sheathing, shingle backer, sound deadening board, roof insulating board, insulating wallboard, acoustical and non-acoustical ceiling tile, acoustical and non-acoustical lay-in panels, floor underlayments, and roof overlay (coverboard).

(c) Cement and concrete, including concrete products such as pipe and block containing:

- (1) Coal fly ash;
- (2) Ground granulated blast furnace slag (GGBF);
- (3) Cenospheres; or
- (4) Silica fume from silicon and ferrosilicon metal production.

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- (d) Carpet made from polyester fiber made from recovered materials for use in moderate-wear applications such as single-family housing and similar wear applications.
- (e) Floor tiles and patio blocks containing recovered rubber or plastic.
- (f) Shower and restroom dividers/partitions containing recovered plastic or steel.
- (g) (1) Consolidated latex paint used for covering graffiti; and
(2) Reprocessed latex paint used for interior and exterior architectural applications such as wallboard, ceilings, and trim; gutter boards; and concrete, stucco, masonry, wood, and metal surfaces.
- (h) Carpet cushion made from bonded polyurethane, jute, synthetic fibers, or rubber containing recovered materials.
- (i) Flowable fill containing coal fly ash and/or ferrous foundry sands.
- (j) Railroad grade crossing surfaces made from cement and concrete containing fly ash, recovered rubber, recovered steel, recovered wood, or recovered plastic.
- (k) Modular threshold ramps containing recovered steel, rubber, or aluminum.
- (l) Nonpressure pipe containing recovered steel, plastic, or cement.
- (m) Roofing materials containing recovered steel, aluminum, fiber, rubber, plastic or plastic composites, or cement.

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PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OF EQUIPMENT

The contractor must comply with federal regulations regarding prohibition on certain telecommunications and video surveillance services or equipment found at 2 CFR §200.216, which states:

(a) Recipients and subrecipients are prohibited from obligating or expending loan or grant funds to:

(1) Procure or obtain;

(2) Extend or renew a contract to procure or obtain; or

(3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115-232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).

(i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).

(ii) Telecommunications or video surveillance services provided by such entities or using such equipment.

(iii) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

(b) In implementing the prohibition under Public Law 115-232, section 889, subsection (f), paragraph (1), heads of executive agencies administering loan, grant, or subsidy programs shall prioritize available funding and technical support to assist affected businesses, institutions and organizations as is reasonably necessary for those affected entities to transition from covered communications equipment and services, to procure replacement equipment and services, and to ensure that communications service to users and customers is sustained.

(c) See Public Law 115-232, section 889 for additional information.

(d) See also §200.471.

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DOMESTIC PREFERENCES FOR PROCUREMENTS

The contractor must comply with federal regulations regarding domestic preferences for procurements found at 2 CFR §200.322, which states:

(a) As appropriate and to the extent consistent with law, the non-Federal entity should, to the greatest extent practicable under a Federal award, provide a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). The requirements of this section must be included in all subawards including all contracts and purchase orders for work or products under this award.

(b) For purposes of this section:

(1) “Produced in the United States” means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

(2) “Manufactured products” means items and construction materials composed in whole or in part of non-ferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

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CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS

Documentation of compliance with the following requirements is a matter of contractor responsibility. When subcontracting, the contractor must submit documentation of good faith efforts to meet the project's MBE/WBE requirements before contracted work can commence. (MBE/WBE requirements are outlined below and can be found at 2. C. F. R. §200.321.) Failure on the part of the contractor to submit proper documentation may cause the Owner not to execute or to terminate the contract.

(a) The prime contractor must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

(b) Affirmative steps must include:

- (1) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and,
- (5) Using the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

The prime contractor should note that this requirement mandates two responsibilities. Separate solicitations must be made of minority **and** women's business enterprises.

SUBMITTAL OF MINORITY BUSINESS ENTERPRISE AND WOMEN'S BUSINESS ENTERPRISE (MBE/WBE) DOCUMENTATION

Before the Notice of Award can be issued, the lowest responsive and responsible bidder will be required to submit either:

- A written certification that no subcontracts will be issued.
- OR -
- The Subcontractor Listing Form detailing all subcontractors that will perform work on the project, including name, contact person, address, phone, and status (MBE, WBE or Non).

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If subcontractors will be utilized, the lowest responsive and responsible bidder will be required to submit the following for subcontracts proposed to be awarded to MBE/WBE enterprises:

- A certification from each MBE and/or WBE firm declaring its status as a MBE or WBE firm. This can be an SBA, ADECA, ALDOT certification. A self-certification is acceptable, if the certification specifies the basis for MBE/WBE designation (e.g., the business is 51% owned and daily operation is controlled by one or more women or minority owners).

If subcontractors will be utilized, the lowest responsive and responsible bidder will be required to submit the following for subcontracts proposed to be awarded to Non-MBE/WBE:

- For all subcontracts for which there are capable certified MBE/WBE firms existing to potentially perform the work, letters transmitted to MBE and WBE firms requesting quotes or proposals for specific subcontracting opportunities, for construction, equipment, materials, or supply needs and encouraging inquiries for further details. Solicitations should have been sent in a timely manner, including allowed response time. (See "Sample Letter from Contractor to MBE/WBE Firms" (below))
- A listing of certified MBE and WBE firms from whom quotes or proposals were received, if any, who were not awarded subcontracts, for construction, equipment, materials or supplies.
- Evidence that each Non-MBE/WBE subcontractor or supplier selected for the scope of work or material purchase, was lower in price than each MBE/WBE proposal (or that there is some other acceptable reason to select the Non-MBE/WBE) and that the scope of work, or material purchase, was the same for both the MBE/WBE and Non-MBE/WBE.

Bidders may utilize the following resources to assist in MBE/WBE affirmative outreach:

City of Birmingham Office of Economic Development
Attn: Monique Shorts, Economic Specialist
710 20th Street North
Birmingham, AL 35203
205-254-2799
monique.shorts@birmingham.gov

U.S. Small Business Administration <http://www.pro-net.sba.gov>

Alabama Department of Transportation
ATTN: John Huffman 1409 Coliseum Boulevard Montgomery,
Alabama 36130
334-244-6261
<http://www.dot.state.al.us>

National Association of Minority
Contractors (NAMC) <http://www.namc-atl.org>

U.S. Department of Commerce Minority Business
Development Agency ATTN: Donna Ennis 75 5th Street NW- Suite
300
Atlanta, Georgia 30308 404/894-2096
<http://www.mbd.gov/>

Mobile Area Water & Sewer System (MAWSS) <https://www.mawss.com/mawss-certified-dbe-list/>

Governor's Office of Minority and Women's Business Enterprises
Ms. Hilda Lockhart STEP Project Director 401 Adams Avenue
Suite 360 Montgomery, Alabama 36130
334/242-2220

Birmingham Construction Industrial Authority ATTN: Ashley Orl
or Kimberly Bivins
601 37th Street South Birmingham, Alabama 35222
205/324-6202
aorl@bcia1.org kbaylorbivins@bcia1.org

Alabama Department of Economic and Community Affairs
<http://adeca.alabama.gov/Divisions/ced/cdp/Pages/ombe.aspx>

Should the Prime Contractor intend to later issue a subcontract, the above affirmative steps must be followed and documentation of such submitted to the Owner for review as described under this section.

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SAMPLE LETTER FROM CONTRACTOR TO MBE/WBE FIRMS

(CONTRACTOR'S LETTERHEAD)

[DATE]

[MBE/WBE COMPANY NAME]

[ADDRESS]

[CITY, STATE ZIP]

RE: [NAME OF PROJECT]

Dear [MBE/WBE FIRM]:

This company intends to submit a bid on the above referenced project.

We are soliciting a proposal from you for any item or items on this project for which you are qualified to subcontract. You may submit proposals to subcontract items of construction or for project materials and supplies if you are a distributor of materials or equipment.

A [BID SCHEDULE OR DESCRIPTION OF THE SPECIFIC ITEM TO BID] is attached for your review. You are encouraged to submit proposals on any item(s) for which you are qualified to subcontract. Proposals must be submitted by [SUBMITTAL DEADLINE] to be considered.

For further details, you are encouraged to contact [NAME OF OWNER REPRESENTATIVE] by email at [EMAIL ADDRESS] or by telephone at [TELEPHONE NUMBER] during normal business hours.

Sincerely,

[NAME OF REPRESENTATIVE]

[NAME OF COMPANY]

Enclosure: [BID SCHEDULE OR DESCRIPTION OF THE SPECIFIC ITEM TO BID]

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41 CFR §60-1.4(b) EQUAL OPPORTUNITY CLAUSE

(for Federally Assisted Construction Contracts)

During the performance of this contract, the contractor agrees as follows:

(1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following: Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

(2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.

(3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

(4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled,

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terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

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41 CFR §60-4.2(d) NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (Executive Order 11246)

1. The Offeror's or Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Time-tables	Covered Area (Geographical area where the contract is to be performed)	Goals for minority participation for each trade	Goals for female participation in each trade
Until Further Notice	Baldwin County, AL	25.9 %	6.9% for all Covered Areas ^[FE3]
	Mobile County, AL	25.9 %	

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR part 60-4. Compliance with the goals will be measured against the total work hours performed.

3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
4. As used in this Notice, and in the contract resulting from this solicitation, the "covered area" is the Alabama County within the Gulf Coast Region where the contract will be performed.

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**41 CFR §60-4.3(a) STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY
CONSTRUCTION CONTRACT SPECIFICATIONS (Executive Order 11246)**

1. As used in these specifications:

a. "Covered area" means the geographical area described in the solicitation from which this contract resulted;

b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;

c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

d. "Minority" includes:

(i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

(ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race);

(iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

(iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any Subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or Subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or Subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7 a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and

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training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

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d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.

f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with onsite supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.

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k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR part 60-3.

l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisory adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, sexual orientation, gender identity, or national origin.

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11. The Contractor shall not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out; to submit reports relating to the provisions hereof as may be required by the Government; and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

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SUBCONTRACTOR LISTING FORM (v.10.22.2020)

The prime contractor must submit this form to the Owner prior to contract execution and must update it for each subcontractor performing any work resulting from this contract. If additional lines are needed, this form may be duplicated.

Subcontractor Name and Contact Person	Subcontractor Address and Phone Number	Subcontractor DUNS	MBE (Y/N)	WBE (Y/N)	On Site during this period (Y/N)

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COMPLETED BY: _____ **DATE:** _____

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Additional Terms Relating to Purchases with Federal Grant Awards

1. FEDERAL GRANT FUNDING

This procurement may be funded in whole or part with federal grant funds.

2. LOCAL VENDOR PREFERENCE

No local vendor preference will be considered or granted in evaluating bids which are funded in whole or part by federal grant awards.

3. NON-DEBARMENT CERTIFICATION

Bidder certifies that the bidder and/or any of its subcontractors or principals have not been debarred, suspended, or declared ineligible by any agency of the Federal government or as defined in the Federal Acquisition Regulation (FAR) 48 C.F.R. Ch. I Subpart 9.4.

4. REMEDY FOR NON-PERFORMANCE/TERMINATION OF CONTRACT

- a) Immediate Termination - This bid award is subject to the appropriation and availability of City funding. will terminate immediately and absolutely if the City determines that adequate funds are not appropriated or granted or funds are de-appropriated such that the City cannot fulfill its obligations under the bid, which determination is at the City's sole discretion and shall be conclusive. Further, the City may terminate the bid award for any one or more of the following reasons effective immediately without advance notice:
- i. in the event the bidder or bid awardee ("contractor") is required to be certified or licensed as a condition precedent to providing goods and services, the revocation or loss of such license or certification may result in immediate termination of the bid award effective as of the date on which the license or certification is no longer in effect;
 - ii. the City determines that the actions, or failure to act, of the bid awardee, its agents, employees or subcontractors have caused, or reasonably could cause, life, health or safety to be jeopardized; and/or
 - iii. the City determines that the bid awardee furnished any statement, representation or certification in connection with the bidding or bid award process which is materially false, deceptive, incorrect or incomplete.
- b) Termination for Cause- The occurrence of any one or more of the following events shall constitute cause for the City to declare the bid awardee in default of its obligation under the bid award:
- i. the bid awardee fails to deliver or has delivered nonconforming goods or services or fails to perform, to the City's satisfaction, any material requirement of the bid or is in violation of a material provision of the bid award, including, but without limitation, the express warranties made by the bid awardee;
 - ii. the City determines that satisfactory performance of the Contract is substantially endangered or that a default is likely to occur;
 - iii. the bid awardee fails to make substantial and timely progress toward performance of the bid requirements;

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- iv. the bid awardee becomes subject to any bankruptcy or insolvency proceeding under federal or state law to the extent allowed by applicable federal or state law including bankruptcy laws; the bid awardee terminates or suspends its business; or the City reasonably believes that the bid awardee has become insolvent or unable to pay its obligations as they accrue consistent with applicable federal or state law;
 - v. the bid awardee has failed to comply with applicable federal, state and local laws, rules, ordinances, regulations and orders when performing within the scope of the bid award;
 - vi. the bid awardee has engaged in conduct that has or may expose the City to liability, as determined in the City's sole discretion.
- c) Notice of Default- If there is a default event caused by the bid awardee; the City shall provide written notice to the bid awardee requesting that the breach or noncompliance be remedied within the period of time specified in the City's written notice to the bid awardee. If the breach or noncompliance is not remedied within the period of time specified in the written notice, City may:
- i. Immediately terminate the bid award without additional written notice; and/or
 - ii. Procure substitute goods or services from another source and charge the difference between the bid award price and the substitute price to the defaulting bid awardee, and/or,
 - iii. Enforce the terms and conditions of the bid award and seek any legal or equitable remedies.
- d) Termination upon Notice- Following thirty (30) days' written notice, the City may terminate the bid award in whole or in part without the payment of any penalty or incurring any further obligation to the bid awardee. Following termination upon notice, the bid awardee shall be entitled to compensation, upon submission of invoices and proper proof of claim, for goods and services provided under the bid to the City up to and including date of termination.
- e) Payment Limitation in Event of Termination- In the event of termination of the bid award for any reason by the City, the City shall pay only those amounts, if any, due and owing to the bid awardee for goods and services actually rendered up to and including the date of termination of the bid award and for which the City is obligated to pay pursuant to the bid award. Payment will be made only upon submission of invoices and proper proof of the bid awardee's claim. This provision in no way limits the remedies available to the City in the event of termination.
- f) Owner May Terminate For Convenience- Upon seven days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):
- i. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
 - ii. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
 - iii. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.
 - iv. Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.
- g) Termination Duties- Upon receipt of notice of termination or upon request of the

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City, the bid awardee shall:

- i. Cease work under the bid award and take all necessary or appropriate steps to limit disbursements and minimize costs, and furnish a report within thirty (30) days of the date of notice of termination, describing the status of all work under the bid award, including, without limitation, results accomplished, conclusions resulting there from, and any other matters the City may require;
- ii. Immediately cease using and return to the City any personal property or materials, whether tangible or intangible, provided by the City to the bid awardee;
- iii. Comply with the City's instructions for the timely transfer of any active files and work product by the bid awardee under the bid award;
- iv. Cooperate in good faith with the City, its employees, agents, and contractors during the transition period between the notification of termination and the substitution of any replacement contractor; and
- v. Immediately return to the City any payments made by the City for goods and services that were not delivered or rendered by the bid awardee.

5. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCE REQUIREMENT

- a) Bid awardee (or "contractor") shall comply with all Federal, State and local laws concerning nondiscrimination.
- b) During the performance of this contract, the bid awardee agrees as follows:
 - i. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following:
 - ii. Employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.
 - iii. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
 - iv. The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
 - v. The contractor will send to each labor union or representative of workers with which

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it has a collective bargaining agreement or other contract or understanding, a notice to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under section 202 of Executive Order 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

- vi. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- vii. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- viii. In the event of the contractor's non-compliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- ix. The contractor will include the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as may be directed by the Secretary of Labor as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

6. ENERGY POLICY AND CONSERVATION ACT STATEMENT

Bid awardee will comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (Public Law 94-163, 89 Stat.871).

7. CLEAN AIR ACT/FEDERAL WATER POLLUTION CONTROL ACT

Bid awardee will comply with all applicable standards, orders, or requirements issued under section 306 of the Clean Air Act (42 U.S.C. 7401-7671q.) and the Federal Water Pollution Control Act (33 U.S.C. 1251-1387), as amended. (Contracts and subgrants of amounts in excess of \$150,000 must contain a provision that requires the non-Federal award to agree to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act and the Federal Water Pollution Control Act.) Bidder certifies that none of the facilities it uses to produce goods provided under the Contract are on the Environmental Protection Authority (EPA) List of Violating Facilities. Bid awardee will immediately notify the City of the receipt of any communication indicating that any of bid awardee's facilities are under consideration to be listed on the EPA List of Violating Facilities.

8. DAVIS-BACON ACT

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Bid awardee will comply with the Davis-Bacon Act, as amended (40 U.S.C. 3141–3148). When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141–3144, and 3146–3148) as supplemented by Department of Labor regulations (29 CFR Part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”).

9. COPELAND “ANTI-KICKBACK” ACT

The contractor will comply with the Copeland “Anti-Kickback” Act (18 U.S.C. 874) as supplemented in Department of Labor regulations (29 CFR Part 3). (All contracts and subgrants for construction or repair.)

10. ANTI-LOBBYING CERTIFICATION

- a) 2 CFR 200 - Appendix II, " Contract Provisions for Non-Federal Entity Contracts Under Federal Awards" is hereby incorporated by reference into this certification
- b) The bidder, by signing its bid, hereby certifies to the best of his or her knowledge and belief that:
 - i. No Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement;
 - ii. If any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress on his or her behalf in connection with this solicitation, the offeror shall complete and submit, with its offer, OMB standard form LLL, Disclosure of Lobbying Activities, to the Contracting Officer; and
 - iii. He or she will include the language of this certification in all subcontract awards at any tier and require that all recipients of subcontract awards in excess of \$150,000 shall certify and disclose accordingly.
 - iv. This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification and disclosure is a prerequisite for making or entering into this contract imposed by section 1352, title 31, United States Code. Any person making expenditure prohibited under this provision or who fails to file or amend the disclosure form to be filed or amended by this provision, shall be subject to a civil penalty of not less than \$10,000, and not more than \$100,000, for each such failure.

11. BEASON HAMMON CLAUSE

By signing this contract, grant, or other agreement, the contracting parties affirm, for the duration of the agreement, that they will not violate federal

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immigration law or knowingly employ, hire for employment, or continue to employ an unauthorized alien within the State of Alabama. Furthermore, a contracting party found to be in violation of this provision shall be deemed in breach of the agreement and shall be responsible for all damages resulting therefrom.

12. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

The contractor shall comply with the Contract Work Hours and Safety Standards Act (40 U.S.C. 3701–3708), where applicable. (Contracts in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5)).

13. ENERGY POLICY AND CONSERVATION ACT

If applicable, the contractor shall comply with the mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201).

14. DEBARMENT AND SUSPENSION

All contractors are subject to the debarment and suspension regulations implementing Executive Order 12549, Debarment and Suspension (1986) and Executive Order 12689, Debarment and Suspension (1989) at 2 C.F.R. Part 180 and the Department of Homeland Security's regulations at 2 C.F.R. Part 3000 (Nonprocurement Debarment and Suspension).

15. REQUIREMENTS

All contractual requirements of the NRDA Restoration Program Funds are to be included in the contract as required including, but not limited to the following provisions:

1. Required Federal-Aid Contract Provisions
2. The Beason-Halphen Contract Clause
3. Termination for cause/breach of contract clause
4. Termination for convenience clause
5. Audits and inspection, access to records, and three-year records retention clause
6. Title VI, Civil Rights Act of 1964 clause
7. Conflict of Interest clause
8. Section 504 Rehabilitation Act of 1973 clause
9. Age Discrimination Act of 1975 clause
10. Executive Order 11246 and E.O. clause

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**RESTORE COUNCIL
FINANCIAL ASSISTANCE
STANDARD TERMS AND CONDITIONS**

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*Gulf Coast Ecosystem Restoration Council
August 2015*

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RESTORE COUNCIL FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS

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THESE RESTORE COUNCIL FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS (ST&Cs) ARE INCORPORATED INTO AND MADE A PART OF THE GRANT AWARD TO WHICH THEY ARE ATTACHED.

A. STATUTORY AND NATIONAL POLICY REQUIREMENTS

The non-Federal entity¹ (also referred to as “recipient” or “grantee”) and any subrecipients must, in addition to the assurances made as part of the application, comply and require each of its contractors and subcontractors employed in the completion of the project to comply with all applicable statutes, regulations, executive orders (EOs), Office of Management and Budget (OMB) circulars, terms and conditions, and approved applications. This document provides the Gulf Coast Ecosystem Restoration Council (“Council”) standard terms and conditions (ST&Cs) for all Council awards. 2 CFR § 5900.101 provides the Council’s adoption of 2 CFR Part 200, giving regulatory effect to the OMB guidance.

This award is subject to the laws and regulations of the United States. Any inconsistency or conflict in terms and conditions specified in the award will be resolved according to the following order of precedence: public laws, regulations, applicable notices published in the *Federal Register*, EOs, OMB circulars, the Council ST&Cs, and special award conditions. Special award conditions may amend or take precedence over the ST&Cs if and when so provided by the ST&Cs.

Certain of the ST&Cs contain, by reference or substance, a summary of the pertinent statutes or regulations published in the *Federal Register* or Code of Federal Regulations (C.F.R.), EOs, OMB circulars, or the assurances (Forms SF-424B and SF-424D). No such provision will be construed so as to be in derogation of, or an amendment to, any such statute, regulation, EO, OMB circular, or assurance.

B. PROGRAMMATIC REQUIREMENTS

The recipient must use funds only for the purposes identified in the grant award agreement in accordance with the requirements in 31 C.F.R. § 34.203(d). All activities under the award must meet the eligibility requirements of the Gulf RESTORE Program as defined in 31 C.F.R. §§ 34.201, 34.202 or 34.203, according to component.

¹ The OMB *Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards* located at 2 C.F.R. part 200 uses the term “non-Federal entity” to generally refer to an entity that carries out a Federal award as a recipient or subrecipient. Because certain of the provisions of these ST&Cs apply to recipients rather than subrecipients, or vice versa, for clarity, these ST&Cs use the terms “non-Federal entity”, “recipient”, and “subrecipient.” In addition, the OMB Uniform Guidance uses the term “pass-through entity” to refer to a non-Federal entity that makes a subaward.

“Non-Federal entity” is defined at 2 C.F.R. § 200.69 as “a State, local government, Indian tribe, institution of higher education (IHE), or nonprofit organization that carries out a Federal award as a recipient or subrecipient.”

“Recipient” is defined at 2 C.F.R. § 200.86 as “a non-Federal entity that receives a Federal award directly from a Federal awarding agency to carry out an activity under a Federal program. The term recipient does not include subrecipients.”

“Subrecipient” is defined at 2 C.F.R. § 200.93 as “a non-Federal entity that receives a subaward from a pass-through entity to carry out part of a Federal program; but does not include an individual that is a beneficiary of such program. A subrecipient may also be a recipient of other Federal awards directly from a Federal awarding agency.”

“Pass-through entity” is defined as 2 C.F.R. § 200.74 as “a non-Federal entity that provides a subaward to a subrecipient to carry out part of a Federal program.”

.01 Performance (Technical) Reports

- a. Non-Federal entities must use OMB-approved governmentwide standard information collections when providing financial and performance information and, as appropriate and in accordance with such information collections, are required to relate financial data to the performance accomplishments of the Federal award. When applicable, recipients must also provide cost information to demonstrate cost effective practices (e.g., through unit cost data). The Non-Federal entity's performance will be measured in a way that will help the Council and other non-Federal entities to improve program outcomes, share lessons learned and spread the adoption of promising practices. Recipients will be provided with clear performance goals, indicators and milestones as described in 2 C.F.R. § 200.210 “Information contained in a Federal award.”
- b. Recipients must submit performance (technical) reports, which may be Form SF-PPR “Performance Progress Report” or any successor form, or another format as required by the Council, to the Council-designated grants officer (Grants Officer). Performance reports should be submitted electronically, unless the recipient makes an arrangement with the Grants Officer for submission in hard copy (no more than one original and two copies) in accordance with the award conditions.
- c. Performance Reports must be submitted with the same frequency as the Federal Financial Report (Form SF-425), unless otherwise authorized by the Grants Officer. If events occur between scheduled performance reporting dates that have significant impact upon the activity, project or program, the recipient must notify the Grants Officer as soon as possible.
- d. Performance (technical) reports shall contain brief information as prescribed in the *Uniform Administrative Requirements, Cost Principles and Audit Requirements for Federal Awards* (2 C.F.R. part 200, specifically 2 C.F.R. § 200.328) incorporated into the award, unless otherwise specified in the award provisions. Specifically, in the “performance narrative” (item 10 on the SF-PPR), the recipient must provide the following information:
 1. Activities and Accomplishments:
 - i. Summarize activities undertaken during the reporting period;
 - ii. Summarize any key accomplishments, including milestones and metrics completed for the period;
 - iii. List any contracts awarded during the reporting period, along with the name of the contractor and its principal, the DUNS number of the contractor, the value of the contract, the date of award, a brief description of the services to be provided, and whether or not local preference was used in the selection of the contractor; and
 - iv. If the recipient is authorized to make subawards, list any subawards executed during the reporting period, along with the name of the entity and its principal, the DUNS number of the entity, the value of the agreement, the date of award, and a brief description of the scope of work.
 2. Adaptive Management:
 - i. Indicate if any operational, legal, regulatory, budgetary, and/or ecological risks, and/or any public controversies, have materialized; if so, indicate what mitigation strategies have been undertaken to attenuate these risks or controversies; and
 - ii. Summarize any challenges that have impeded the recipient’s ability to accomplish the approved scope of work on schedule and on budget.

3. Findings/Events: Summarize any significant findings or events, if applicable.
4. Dissemination Activities: Describe any activities to disseminate or publicize results of the activity, project, or program, if applicable.
5. Monitoring:
 - i. Describe all efforts taken to monitor contractor and/or subrecipient performance, to include site visits, during the reporting period. For subawards, indicate whether the subrecipient submitted an audit to the recipient, and if so, whether the recipient issued a management decision on any findings; and
 - ii. Describe any other activities or relevant information not already provided.
6. Planned Activities: Summarize the activities planned for the next reporting period.
7. Attachments: List and attach any deliverables completed during the performance period or other materials to be submitted with the report.

.02 Reporting on Real Property

In accordance with 2 C.F.R. § 200.329, the Federal awarding agency or pass-through entity must require a non-Federal entity to submit reports at least annually on the status of real property in which the Federal government retains an interest, unless the Federal interest in the real property extends 15 years or longer. If the attached Federal interest is for a period of 15 years or longer, the Council or pass-through entity may, at its option, require the non-Federal entity to report at various multi-year frequencies as specified in the terms of the award (e.g., every two years or every three years, not to exceed a five-year reporting period; or the Council or pass-through entity may require annual reporting for the first three years of a Federal award and thereafter require reporting every five years).

.03 Unsatisfactory Performance

Failure to perform the work in accordance with the terms of the award and maintain at least a satisfactory performance as determined by the Council may result in designation of the non-Federal entity as high risk and the assignment of special award conditions or other further action as provided in Section B.06, “Non-Compliance with Award Provisions” below.

.04 Programmatic Changes

The non-Federal entity shall report programmatic changes to the Grants Officer in accordance with 2 C.F.R. § 200.308, and shall request prior approvals in accordance with 2 C.F.R. § 200.407.

.05 Other Federal Awards with Similar Programmatic Activities

The non-Federal entity shall immediately provide written notification to the Grants Officer in the event that, subsequent to receipt of the Council award, other financial assistance is received to support or fund any portion of the scope of work incorporated into the Council award. The Council will not pay for any costs that are funded by other sources.

.06 Non-Compliance with Award Provisions

Failure to comply with any or all of the provisions of the award may have a negative impact on future funding by the Council and may be considered grounds for any or all of the following actions: withholding of payments pending correction of the deficiency by the non-Federal entity and/or more severe enforcement action by the Council or pass-through entity in accordance with 2 C.F.R. § 200.338; disallowance of (that is, denial of both use of funds and any applicable matching credit for) all or part of the cost of the activity or action not in compliance; suspension or termination of all or any portion of the award; initiation of suspension or debarment proceedings as authorized under 2 C.F.R. part 180 and any Council regulations and policies promulgated pursuant to its authority (or in the case of a pass-through entity, recommendation that such a proceeding be initiated by the Council); withholding of further awards for the project or program; or enforcement of other remedies that may be legally available. *See also* 2 C.F.R. §§ 200.339 through 200.342.

.07 Prohibition against Assignment by the Non-Federal Entity

The non-Federal entity shall not transfer, pledge, hypothecate, mortgage, or otherwise assign the award, or any interest therein, or any claim arising thereunder, to any party or parties, including without limitation any bank, trust company or other financing or financial institution, without the express written approval of the Grants Officer.

.08 Disclaimer Provisions

- a. The United States expressly disclaims any and all responsibility or liability to the non-Federal entity or third persons for any actions of the non-Federal entity or third persons resulting in death, bodily injury, personal or property damage, or any other damage, loss or liability in connection with or resulting in any way from the performance of this award or any subaward or subcontract under this award.
- b. Acceptance of this award by the non-Federal entity does not in any way establish or constitute an agency relationship between the United States and the non-Federal entity.

C. FINANCIAL REQUIREMENTS

.01 Financial Reports

- a. In accordance with 2 C.F.R. § 200.327, the recipient shall submit a “Federal Financial Report” (Form SF-425 or any successor form, or another format as required by the Council) on a semi-annual basis. Semi-annual reporting periods will be specified in the grant award for either the periods ending March 31 and September 30, or any portion thereof, or June 30 and December 31, or any portion thereof, unless otherwise specified in a special award condition. Reports are due no later than 30 days following the end of each reporting period. A final Form SF-425 shall be submitted within 90 days after the expiration of the project period.
- b. The report should be submitted to the Grants Officer electronically, unless the recipient makes an arrangement with the Grants Officer for submission in hard copy (no more than one original and two copies), in accordance with the award conditions.

- c. The recipient must report to the Council at the conclusion of the grant period, or other period specified by the Council, on the use of funds pursuant to the award in accordance with the requirements in 31 C.F.R. § 34.803(e).
- d. The recipient must forecast cash requirements/draws semi-annually, for the periods October 1 to March 31 and April 1 to September 30, throughout the life of the grant. Forecasted cash requirements must be updated with the submission of each “Federal Financial Report.”

.02 Financial Management

- a. In accordance with 2 C.F.R. § 200.302(a), each State, including a state’s administrative agents and the Gulf Consortium of Florida counties, must expend and account for the Federal award in accordance with state laws and procedures for expending and accounting for the state’s own funds. In addition, the state’s and other non-Federal entities’ financial management systems, including records documenting compliance with Federal statutes, regulations, and the terms and conditions of the Federal award, must be sufficient to permit the preparation of reports required by general and program-specific terms and conditions – including preparation of accurate current and complete SF-425, Performance (Technical) Report, reporting on subawards, and any additional reports required by any additional award conditions. The financial management system also must be sufficient to trace funds to a level of expenditures adequate to establish that such funds have been used according to the Federal statutes, regulations – including without limitation the Resources and Ecosystem Sustainability, Tourist Opportunities, and Revived Economies of the Gulf Coast States Act of 2012 (RESTORE Act), Council and Treasury RESTORE Act regulations – and the terms and conditions of the Federal award. *See also* 2 C.F.R. § 200.450 “Lobbying.”
- b. The financial management system of each non-Federal entity must provide all information required by 2 C.F.R. § 200.302(b) and maintain detailed records sufficient to account for the receipt, obligation and expenditure of grant funds in accordance with the requirements in 31 C.F.R. § 34.803(b). *See also* 2 C.F.R. §§ 200.333 “Retention requirements for records”; 200.334 “Requests for transfer of records”; 200.335 “Methods for collection, transmission and storage of information”; 200.336 “Access to records”; and 200.337 “Restrictions on public access to records.” Specifically, the financial management system must provide for:
 1. Identification and tracking of all Council awards received and expended by the Catalog of Federal Domestic Assistance (CFDA) title and number, Federal award identification number and year, name of the Federal agency, and name of the pass-through entity, if any;
 2. Records that adequately identify the source and application of all funds for Federally-funded activities, including information pertaining to Federal awards, authorizations, obligations, unobligated balances, assets, expenditures, income and interest, and are supported by source documentation; and
 3. Effective control over, and accountability for, all Federal funds, and all property and assets acquired with Federal funds. The recipient must adequately safeguard all assets and ensure that they are used solely for authorized purposes.
- c. The recipient must establish written procedures to implement the requirements set forth in Subsection, C.03 “Award Payments,” below, as well as written procedures to determine the allowability of costs in accordance with 2 C.F.R. Part 200, subpart E “Cost Principles,” and the terms and conditions of this award.

.03 Award Payments

- a. The reimbursement method of payment will be used under this award, unless otherwise specified in a special award condition. The Grants Officer will determine the appropriate method of payment. Payments are made through electronic funds transfers directly to the non-Federal entity's bank account and in accordance with the requirements of the Debt Collection Improvement Act of 1996 (31 U.S.C. § 3701 *et. seq.*) and the Cash Management Improvement Act (31 U.S.C. § 6501 *et. seq.*).
 1. Consistent with 2 C.F.R. § 200.305(a), for States, payments are governed by the Treasury-State Cash Management Improvement Act (CMIA) agreements and default procedures codified at 31 C.F.R. Part 205 "Rules and Procedures for Efficient Federal-State Funds Transfers" and Treasury Financial Manual Volume I, 4A-2000 "Overall Disbursing Rules for All Federal Agencies."
 2. Consistent with 2 C.F.R. § 200.305(b), for non-Federal entities other than States, payment methods must minimize the amount of time elapsing between the transfer of funds from the U.S. Treasury or the pass-through entity and the disbursement by the non-Federal entity.
- b. The Council Award Number must be included on all payment-related correspondence, information, and forms.
- c. Unless otherwise provided for in the award terms, payments under this award will be made using the Department of Treasury's Automated Standard Application for Payment ([ASAP](#))² system. Under the ASAP system, payments will be made through preauthorized electronic funds transfers in accordance with the requirements of the Debt Collection Improvement Act of 1996. Awards paid under the ASAP system will contain a special award condition clause or provision describing enrollment requirements and any controls or withdrawal limits set in the ASAP system. Recipients enrolled in the ASAP system are not required to submit a "Request for Advance or Reimbursement" (Form SF-270 or successor form), in order to receive payments relating to their award. Pre-approval prior to requesting payments may be required for recipients that are determined by the Council to be in a high risk category or noncompliant (see 2 C.F.R. § 200.205 "Federal awarding agency review of risk posed by applicants," and see section M "Remedies for Noncompliance" below).
 1. In order to receive payments under ASAP, recipients are required to enroll with the Department of Treasury, Financial Management Service, Regional Financial Centers, which enables them to use the on-line and Voice Response System (VRS) method of withdrawing funds from their ASAP established accounts.
 2. The following information will be required to make withdrawals under ASAP: (i) ASAP account number, i.e., the Federal award number found on the cover sheet of the award; (ii) Agency Location Code (ALC); and (iii) Region Code.
- d. When expressly allowed through a special award condition, advances shall be limited to the minimum amounts necessary to meet immediate disbursement needs, but in no event shall advances exceed the amount of cash required for a 30-day period. Funds advanced but not disbursed in a timely manner and any accrued interest thereon must be promptly returned to the Council. The Grants Officer may periodically request documentation from the non-Federal entity verifying that the elapsed time between the transfer of funds and disbursement has been minimized. If a non-Federal entity demonstrates an unwillingness or inability to establish procedures that will minimize time elapsing

² Department of Treasury's Automated Standard Application for Payment (ASAP) system - https://www.fiscal.treasury.gov/fsservices/gov/pmt/asap/asap_home.htm, verified on 8/18/2015.

between transfer of funds and disbursement or if the non-Federal entity otherwise fails to continue to qualify for the advance payment method, the Grants Officer may change the method of payment to reimbursement only.

- e. Where the use of an alternative system other than ASAP is provided for in the award terms, requests for payment will be submitted to the Grants Officer.
 - 1. Form SF-3881, “ACH Vendor/Miscellaneous Payment Enrollment Form,” must be completed before the first award payment can be made via the “Request for Advance or Reimbursement” (Form SF-270) request.
 - 2. When advance payment is expressly allowed for by special award condition, the non-Federal entity must submit the request no more frequently than monthly, and advances will be approved for periods to cover only expenses anticipated over the following 30 days. The non-Federal entity must complete the “ACH Vendor Miscellaneous Payment Enrollment Form” (Form SF-3881 or successor form), and Form SF-270, and submit those forms to the Grants Officer.

.04 Federal and Non-Federal Sharing

- a. Awards that include Federal and non-Federal sharing incorporate a budget consisting of shared allowable costs. If actual allowable costs are less than the total approved budget, the Federal and non-Federal cost shares shall be calculated by applying the approved Federal and non-Federal cost share ratios to actual allowable costs. If actual allowable costs are greater than the total approved budget, the Federal share shall not exceed the total Federal dollar amount authorized by the award.
- b. The non-Federal share, whether in cash or in-kind, is to be paid out at the same general rate as the Federal share. Exceptions to this requirement may be granted by the Grants Officer based on sufficient documentation demonstrating previously determined plans for, or later commitment of, cash or in-kind contributions. In any case the non-Federal entity must meet its cost share commitment over the life of the award. The non-Federal entity must create and maintain sufficient records sufficient to justify all non-Federal sharing requirements and to facilitate questions and audits. *See* Section I “Audits” below for audit requirements, and *see* 2 C.F.R. § 200.306 for additional requirements regarding cost sharing.

.05 Program Income

- a. Non-Federal entities are encouraged to earn income to defray program costs where appropriate. Any program income shall be earned and applied consistent with the requirements of 2 C.F.R. § 200.307.
- b. The recipient must maintain detailed records sufficient to account for the receipt, obligation, and expenditure of grant funds including the tracking of program income. Program income must be included in the non-Federal entity’s approved budget and tracked in accordance with the requirements in 31 C.F.R. § 34.803(b).
- c. All program income must be documented in the Federal financial report submitted to the Council for the period in which the income was earned.

.06 Budget Changes and Transfer of Funds among Categories

- a. Requests for changes to the approved budget must be made in accordance with 2 C.F.R. § 200.308 “Revision of budget and program plans” and submitted in writing to the Grants Officer who will make the final determination on such requests and notify the non-Federal entity in writing thereof.
1. Construction Awards. For construction Federal awards, the non-Federal entity must request prior written approval promptly from the Grants Officer for budget revisions whenever one or more of the following applies:
 - i. The revision results from changes in the scope or the objective of the project or program;
 - ii. The need arises for additional Federal funds to complete the project; or
 - iii. A revision is desired which involves specific costs for which prior written approval requirements may be imposed consistent with applicable OMB cost principles listed in 2 C.F.R. part 200, Subpart E—“Cost Principles.”
 2. Non-Construction Awards. For non-construction Federal awards, recipients must request prior written approval promptly from the Grants Officer for budget revisions whenever one or more of the following applies:
 - i. Change in the scope or the objective of the project or program;
 - ii. Change in a key person specified in the application or the Federal award;
 - iii. The disengagement from the project for more than three months, or a 25 percent reduction in time devoted to the project, by the approved project director or principal investigator;
 - iv. The inclusion, unless waived by the Council, of costs that require prior approval in accordance with 2 C.F.R. part 200 Subpart E—“Cost Principles” or 45 C.F.R. Part 75 Appendix IX “Principles for Determining Costs Applicable to Research and Development under Awards and Contracts with Hospitals,” or 48 C.F.R. Part 31 “Contract Cost Principles and Procedures,” as applicable;
 - v. The transfer of funds budgeted for participant support costs as defined in 2 C.F.R. § 200.75 “Participant support costs to other categories of expense”;
 - vi. The subawarding, transferring or contracting out of any work under a Federal award unless (a) described in the application and funded in the approved Federal award, or (b) applicable to the acquisition of supplies, material, equipment or general support services only; or
 - vii. Changes in the amount of approved cost-sharing or matching provided by the non-Federal entity. No other prior approval requirements for specific items may be imposed unless a deviation has been approved by OMB. *See also* 2 C.F.R. §§ 200.102 “Exceptions” and 200.407 “Prior written approval.”
 3. Both Construction and Non-Construction Activities in Award. If a single award provides support for construction and non-construction work, the recipient must request prior written approval from the Grants Officer before making any fund or budget transfers between the two types of work supported.
- b. In accordance with 2 C.F.R. § 200.308(e), transfers of funds by the recipient among direct cost categories are permitted for awards in which the Federal share of the project is the Simplified Acquisition Threshold (\$150,000 as of 12/26/2013) or less. For awards in which the Federal share of the project exceeds the Simplified Acquisition Threshold, the recipient must request prior written approval from the Grants Officer for transfers of funds among direct cost categories when the

cumulative amount of such direct cost transfers exceeds ten percent of the total budget³ as last approved by the Grants Officer. The 10% threshold applies to the total Federal funds authorized by the Grants Officer at the time of the transfer request. The same requirements apply to the cumulative amount of transfer of funds among programs, functions, and activities. This transfer authority does not authorize the recipient to create new budget categories within an approved budget without the prior written approval of the Grants Officer. No transfer that enables any Federal appropriation, or part thereof, to be used for an unauthorized purpose will be permitted. The foregoing provision does not prohibit the recipient from requesting Grants Officer approval for revisions to the budget. *See* 2 C.F.R. § 200.308 (as applicable) for specific requirements concerning budget revisions and transfer of funds between budget categories.

- c. The recipient is not authorized at any time to transfer amounts budgeted for direct costs to the indirect costs line item or vice versa without the prior written approval of the Grants Officer.

.07 Indirect (Facilities and Administrative [F&A]) Costs

- a. Indirect (facilities and administrative [F&A]) costs will not be allowable charges against an award unless permitted under the award, specifically included as a line item in the award's approved budget and consistent with 2 C.F.R. §§ 200.414 "Indirect (F&A) costs" and Subpart E "Cost Principles."
- b. Indirect costs of recipients are subject to the three percent (3%) cap on administrative expenses stated in 33 U.S.C. § 1321(t)(1)(B)(iii) and 31 C.F.R. § 34.204. The three percent cap on administrative expenses applies only to recipients and does not flow down to subrecipients.
- c. Excess indirect costs may not be used to offset unallowable direct costs.
- d. Indirect costs charged must be consistent with the indirect cost rate agreement negotiated between the non-Federal entity and its cognizant agency (defined as the Federal agency that is responsible for reviewing, negotiating, and approving cost allocation plans or indirect cost proposals, *see* 2 C.F.R. § 200.19) and must be included in the recipient's budget. The Council will accept approved indirect cost rates unless otherwise authorized by a Federal statute or regulation, or requirements at 2 C.F.R. § 200.414(c) are met.
 1. If indirect costs are permitted and the non-Federal entity wishes to include indirect costs in its budget, but the non-Federal entity has not previously established an indirect cost rate with a Federal agency, the requirements for determining the relevant cognizant agency and developing and submitting indirect (F&A) cost rate proposals and cost allocation plans are contained in Appendices III – VII to 2 C.F.R. Part 200 as follows:
 - Appendix III to 2 C.F.R. Part 200 – Indirect (F&A) Costs Identification and Assignment, and Rate Determination for Institutions of Higher Education (IHEs);
 - Appendix IV to 2 C.F.R. Part 200 – Indirect (F&A) Costs Identification and Assignment, and Rate Determination for Nonprofit Organizations;
 - Appendix V to 2 C.F.R. Part 200 – State/Local Governmentwide Central Service Cost Allocation Plans;

³ The cumulative amount of direct cost transfers is calculated by summing the negative variances between the approved and proposed budgets. Variance is calculated by subtracting the proposed budget amount for each cost category from the approved budget amount for the category. Only variances less than zero are totaled. The cumulative negative variance is then divided by the total grant award budget to determine the percentage transferred, i.e., cumulative % of transfer(s) = $\{[\sum (\text{negative variances})] / \text{total award budget}\} \times 100$.

- Appendix VI to 2 C.F.R. Part 200 – Public Assistance Cost Allocation Plans; and
- Appendix VII to 2 C.F.R. Part 200 – States and Local Government and Indian Tribe Indirect Cost Proposals.

The cognizant agency for governmental units or agencies not specifically identified by OMB will be determined based on the Federal agency providing the largest amount of Federal funds. *See* 2 C.F.R. §200.416 “Cost allocation plans and indirect cost proposals.” When the Council is not the oversight or cognizant Federal agency, the non-Federal entity shall provide the Grants Officer with a copy of a negotiated rate agreement or a copy of the transmittal letter submitted to the cognizant or oversight Federal agency requesting a negotiated rate agreement.

2. For those organizations for which the Council is cognizant or has oversight, the Council or its designee will either negotiate a fixed rate with carry-forward provisions for the non-Federal entity or, in some instances, will limit its review to evaluating the procedures described in the non-Federal entity’s cost allocation plan. Indirect cost rates and cost allocation methodology reviews are subject to future audits to determine actual indirect costs.
3. Within 90 days after the award start date, the non-Federal entity shall submit to the address listed below documentation (indirect cost proposal, cost allocation plan, etc.) necessary to perform the review. The non-Federal entity shall provide the Grants Officer with a copy of the transmittal letter.

Gulf Coast Ecosystem Restoration Council Office
 Attn: Senior Grants Management Officer
 500 Poydras Street, Suite 1117
 New Orleans, LA 70130

If the non-Federal entity fails to submit the required documentation to the Council within 90 days of the award start date, the Grants Officer may amend the award to preclude the recovery of any indirect costs under the award. If the Council, oversight or cognizant Federal agency determines there is a finding of good and sufficient cause to excuse the non-Federal entity’s delay in submitting the documentation, an extension of the 90-day due date may be approved by the Grants Officer.

4. The non-Federal entity may use the fixed rate proposed in the indirect cost plan until such time as the Council provides a response to the submitted plan. Actual indirect costs must be calculated annually and adjustments made through the carry-forward provision used in calculating the following year’s rate. This calculation of actual indirect costs and the carry-forward provision is subject to audit. Indirect cost rate proposals must be submitted annually. Organizations that have previously established indirect cost rates must submit a new indirect cost proposal to the cognizant agency within six months after the close of each of the recipients’ fiscal years.
- e. The maximum dollar amount of allocable indirect costs for which the Council will reimburse the non-Federal entity shall be the lesser of:
1. The line item amount for the Federal share of indirect costs contained in the approved award budget, including all budget revisions approved in writing by the Grants Officer; or
 2. The Federal share of the total indirect costs allocable to the award based on the indirect cost rate approved by a cognizant or oversight Federal Agency for indirect costs and applicable to the period in which the cost was incurred, provided that the rate is approved in writing on or before

the award end date, subject to the three percent (3%) cap on administrative expenses provided in 33 U.S.C. § 1321(t)(1)(B)(iii) and 31 C.F.R. § 34.204.

- f. In addition, a non-Federal entity that is a State, local government, Indian tribe, institution of higher education, or nonprofit organization and has never received a negotiated indirect cost rate may elect to charge a *de minimis* rate of 10% of modified total direct costs. *See also* 2 C.F.R. § 200.414(f).

.08 Incurring Costs or Obligating Federal Funds Outside of the Period of Performance

- a. The non-Federal entity shall not incur costs or obligate funds for any purpose pertaining to the operation of the project, program, or activities beyond the period of performance, i.e., the time during which the non-Federal entity may incur new obligations to carry out the work authorized under the Federal award. *See* 2 C.F.R. §§ 200.77 and 200.309.
 - 1. The Council or pass-through entity must include start and end dates of the period of performance in the Federal award.
 - 2. All activities supported through an award must occur and be completed during the approved period of performance, whether funded directly or through a subaward or subcontract, and all obligated costs must be liquidated within 90 days following the end date of the period of performance.
 - 3. The only costs which may be authorized for a period of not to exceed 90 days following the end of the project period are those solely associated with close-out activities. Close-out activities are limited to the preparation of final progress, financial, and required project audit reports unless otherwise approved in writing by the Grants Officer. The Grants Officer may approve extensions of the 90-day closeout period upon a request by the non-Federal entity as provided in 2 C.F.R. § 200.343.
- b. Unless otherwise authorized in 2 C.F.R. § 200.343 or a special award condition, any extension of the project period can only be authorized by the Grants Officer in writing. Verbal or written assurances of funding from anyone other than the Grants Officer shall not constitute authority to obligate funds for programmatic activities beyond the end of the project period.
- c. Pre-Award Costs. Pre-award costs are those incurred prior to the effective date of the Federal award directly pursuant to the negotiation and in anticipation of the Federal award where such costs are necessary for efficient and timely performance of the scope of work. Such costs are allowable only to the extent that they would have been allowable if incurred after the date of the Federal award and only with the written approval of the Grants Officer. The recipient must use funds obligated and disbursed under the award only during the period of performance specified in the award document. *See* 2 C.F.R. § 200.458.
- d. The Council has no obligation to provide any additional prospective funding. Any amendment of the award to increase funding and to extend the project period is at the sole discretion of the Council.

.09 Tax Refunds

Refunds of Federal Insurance Contributions Act (FICA) (26 U.S.C. §§ 3101-3128) or Federal Unemployment Tax Act (FUTA) (26 U.S.C. §§ 3301-3311) taxes received by the non-Federal entity

during or after the period of performance must be refunded or credited to the Council whenever the benefits were financed with Federal funds under the award. The non-Federal entity shall contact the Grants Officer immediately upon receipt of these refunds. The non-Federal entity shall in addition refund portions of FICA/FUTA taxes determined to belong to the Federal Government, including refunds received after the period of performance ends.

D. INTERNAL CONTROLS

Consistent with 2 C.F.R. § 200.303, each non-Federal entity:

- a. Must establish and maintain effective internal control over the Federal award that provides reasonable assurance that the non-Federal entity is managing the Federal award in compliance with Federal statutes, regulations, and the terms and conditions of the Federal award. These internal controls must be in compliance with guidance in “[Standards for Internal Control in the Federal Government](#)”⁴ issued by the Comptroller General of the United States or the “[Internal Control Integrated Framework](#),”⁵ issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).
- b. Must comply with Federal statutes, regulations, and the terms and conditions of the Federal award.
- c. Must evaluate and monitor the non-Federal entity’s compliance with statute, regulations and the terms and conditions of Federal award.
- d. Must take prompt action when instances of noncompliance are identified including noncompliance identified in audit findings.
- e. Must take reasonable measures to safeguard protected personally identifiable information and other information the Council or pass-through entity designates as sensitive or the non-Federal entity considers sensitive consistent with applicable Federal, state and local laws regarding privacy and obligations of confidentiality.

E. PROPERTY STANDARDS

.01 Standards

The non-Federal entity must comply with the property standards as stipulated in 2 C.F.R. §§ 200.310 to 200.316.

.02 Insurance coverage

Recipients must provide insurance coverage for real property and equipment acquired or improved with Federal funds equivalent to that provided for property owned by the non-Federal entity. Federally-owned

⁴ “Standards for Internal Control in the Federal Government” issued by the Comptroller General of the United States - <http://www.gao.gov/assets/80/76455.pdf>, verified on 8/18/2015.

⁵ “Internal Control Integrated Framework,” issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO), Executive Summary - <http://www.coso.org/documents/Internal%20Control-Integrated%20Framework.pdf>, verified on 8/18/2015.

property need not be insured unless required by the terms and conditions of the Federal award. *See* 2 C.F.R. § 200.310.

.03 Real Property

- a. Real property or an interest in real property may not be acquired under an award without prior written approval of the Grants Officer.
- b. Title of real property. Subject to the obligations and conditions set forth in this section, title to real property acquired or improved under a Federal award will vest upon acquisition in the non-Federal entity.
- c. Use. Except as otherwise provided by Federal statutes or by the Council, real property must be used for the originally authorized purpose as long as needed for that purpose, during which time the non-Federal entity must not dispose of or encumber its title or any other interest therein.
- d. Willing Sellers. Land or interest in land may only be acquired by purchase, exchange or donation from a willing seller in accordance with the requirements in 31 C.F.R. § 34.803(f).
- e. Federal Acquisitions. Funds may not be used to acquire land in fee title by the Federal Government unless the exceptions in 31 C.F.R. § 34.803(g) are met.
- f. Disposition. When real property is no longer needed for the originally authorized purpose, the non-Federal entity must obtain disposition instructions from the Council or pass-through entity. The instructions will provide that the non-Federal entity do one of the following:
 1. Retain title after compensating the Council. The amount paid to Council will be computed by applying the Council's percentage of participation in the cost of the original purchase (and costs of any improvements) to the fair market value of the property. However, if the non-Federal entity is disposing of real property acquired or improved with a Federal award and acquiring replacement real property under the same Federal award, the net proceeds from the disposition may be used as an offset to the cost of the replacement property.
 2. Sell the property and compensate the Council. The amount due to the Council will be calculated by applying the Council's percentage of participation in the cost of the original purchase (and cost of any improvements) to the proceeds of the sale after deduction of any actual and reasonable selling and fixing-up expenses. If the Federal award has not been closed out, the net proceeds from sale may be offset against the original cost of the property. When the non-Federal entity is directed to sell property, it must utilize sales procedures that provide for competition to the extent practicable and result in the highest possible return.
 3. Transfer title to the Council or to a third party designated or approved by the Council. The non-Federal entity is entitled to be paid an amount calculated by applying the non-Federal entity's percentage of participation in the purchase of the real property (and cost of any improvements) to the current fair market value of the property.
- g. The Grants Officer may require the non-Federal entity to submit the Tangible Personal Property Report (Form SF-428 or successor form), and/or Real Property Status Report (Form SF-429 or successor form), including applicable attachments to each form, in connection with the reporting of tangible personal property or of real property acquired or improved, in whole or in part, under a Council financial assistance award. The Grants Officer may also require the non-Federal entity to

submit Form SF-428 and/or Form SF-429, or successor forms, in connection with a non-Federal entity's request to acquire, encumber, dispose of, or take any other action pertaining to tangible personal property or to real property acquired or improved, in whole or in part, under a Council financial assistance award.

.04 Federally-owned and Exempt Federally-owned Property

- a. Title to Federally-owned property⁶ remains vested in the Federal government. The non-Federal entity must submit annually an inventory listing of Federally-owned property in its custody to the Grants Officer. Upon completion of the Federal award or when the property is no longer needed, the non-Federal entity must report the property to the Grants Officer for further Council utilization. If the Council has no further need for the property, it must declare the property excess and report it for disposal to the appropriate Federal disposal authority, unless the Council has statutory authority to dispose of the property by alternative methods (e.g., the authority provided by the Federal Technology Transfer Act (15 U.S.C. § 3710 (i)) to donate research equipment to educational and non-profit organizations in accordance with Executive Order 12999, "Educational Technology: Ensuring Opportunity for All Children in the Next Century."). The Council will issue appropriate instructions to the non-Federal entity. The Council may exercise this option when statutory authority exists.
- b. Absent statutory authority and specific terms and conditions of the Federal award, title to exempt Federally-owned property acquired under the Federal award remains with the Federal government.
- c. The Grants Officer may require the non-Federal entity to submit the Tangible Personal Property Report (Form SF-428 or successor form), and/or Real Property Status Report (Form SF-429 or successor form), including applicable attachments to each form, in connection with the reporting of Federally-owned property that is in the non-Federal entity's custody pursuant to a Council financial assistance award or with a non-Federal entity's request to acquire, encumber, dispose of, or take any other action pertaining to Federally-owned property.

.05 Equipment

- a. Recipients must comply with the equipment standards provided in 2 C.F.R. §§ 200.313 "Equipment" and 200.439 "Equipment and other capital expenditures."
- b. American-Made Equipment and Products. Recipients are hereby notified that they are encouraged, to the greatest extent practicable, to purchase American-made equipment and products with funding provided under this award.
- c. Use, management, and disposition of equipment acquired.
 1. For recipients that are States: The recipient must use, manage and dispose of equipment acquired under this award in accordance with state laws and procedures.
 2. For recipients that are not States: Equipment must be used by the recipient in the program or project for which it was acquired as long as needed, whether or not the project or program

⁶ Federally-owned property as defined in 2 C.F.R. § 200.312 means property acquired under a Federal award where the title vests with the Federal government. Exempt Federally-owned property means property acquired under a Federal award where the Federal awarding agency has chosen to vest title to the property to the non-Federal entity without further obligation to the Federal Government, based upon the explicit terms and conditions of the Federal award.

continues to be supported by the Federal award. Before disposing of equipment during the period of performance, the recipient must seek disposition instructions from the Grants Officer for equipment acquired under this award if the current fair market value of the equipment is greater than \$5,000 per unit. Disposition instructions must be requested by submitting a completed “Tangible Personal Property Report” (SF-428 or any successor form) and the “Disposition Request/Report” (SF-428-C or any successor form). In addition, not later than 60 days after the end of the period of performance, the recipient must submit to the Grants Officer a completed SF-428 and “Final Report Form” (SF-428-B or any successor form) if the recipient retains any equipment with a current fair market value greater than \$5,000 per unit.

.06 Supplies

- a. Title to supplies vests in the non-Federal entity upon acquisition. If residual inventory of unused supplies exceeds \$5,000 in total aggregate value upon termination or completion of the project or program and the supplies are not needed for any other Federal award, then the non-Federal entity may retain the supplies for use on other activities or sell them, but must, in either case, compensate the Federal government for its share. The amount of compensation must be computed in the same manner as for equipment as prescribed in 2 C.F.R. § 200.313 “Equipment”; see 200.313(e)(2) for the calculation methodology. *See also* 2 C.F.R. § 200.453 “Materials and supplies costs, including costs of computing devices.” The recipient must report the value and the retention or sale of such supplies by submitting to the Grants Officer a completed “Tangible Personal Property Report” (SF-428 or any successor form) and “Final Report Form” (SF-428-B or any successor form) no later than 60 days after the end of the period of performance.
- b. As long as the Federal government retains an interest in the supplies, the non-Federal entity must not use supplies acquired under a Federal award to provide services to other organizations for a fee that is less than private companies charge for equivalent services, unless specifically authorized by Federal statute.

.07 Intangible Property

- a. Title to intangible⁷ property acquired under a Federal award vests upon acquisition in the non-Federal entity.
- b. The non-Federal entity must use intangible property for the originally-authorized purpose, and must not encumber the property without the prior written approval of the Council. When no longer needed for the originally authorized purpose, disposition of the intangible property must occur in accordance with the provisions in 2 C.F.R. § 200.313(e).
- c. The non-Federal entity may copyright any work that is subject to copyright and was developed, or for which ownership was acquired, under a Federal award. The Council reserves a royalty-free, perpetual, nonexclusive and irrevocable license to reproduce, publish, distribute, exhibit, and/or otherwise use and exploit the work throughout the world in all media now known or hereafter devised, and to authorize others to do so for Federal purposes.

⁷ Intangible property as defined by 2 C.F.R. § 200.59 means property having no physical existence, such as trademarks, copyrights, patents and patent applications and property, such as loans, notes and other debt instruments, lease agreements, stock and other instruments of property ownership (whether the property is tangible or intangible).

- d. The non-Federal entity is subject to applicable regulations governing patents and inventions, including governmentwide regulations issued by the Department of Commerce at 37 C.F.R. part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Awards, Contracts and Cooperative Agreements.”
- e. The Federal government has the right, perpetually throughout the world in all media now known or hereafter devised, to:
 1. Obtain, reproduce, publish, distribute, exhibit, and/or otherwise use and exploit the data produced under a Federal award; and
 2. Authorize others to do so for Federal purposes.
- f. Freedom of Information Act (FOIA). Pursuant to 2 C.F.R. § 200.315(e), in response to a FOIA request for research data relating to published research findings⁸ produced under a Federal award that were used by the Federal government in developing an agency action that has the force and effect of law, the Council will request, and the non-Federal entity must provide, within a reasonable time, the research data⁹ so that such data can be made available to the public through the procedures established under the FOIA. If the Council obtains the research data solely in response to a FOIA request, the Council may charge the requester a reasonable fee equal to the full incremental cost of obtaining the research data that reflects the costs incurred by the Council and the non-Federal entity. Pursuant to 5 U.S.C. § 552(a)(4)(A), this fee is in addition to any fees the Council may assess under the FOIA.

.08 Property Trust Relationship

Real property, equipment and intangible property acquired or improved with a Federal award must be held in trust by the non-Federal entity as trustee for the beneficiaries of the project or program under which the property was acquired or improved. The Council may require the non-Federal entity to record liens or other appropriate notices of record to indicate that personal or real property has been acquired or improved with a Federal award and that use and disposition conditions apply to the property.

F. PROCUREMENT STANDARDS

Pursuant to 2 C.F.R. § 200.317, when procuring property and services under this Federal award, a State must follow the same policies and procedures it uses for procurements from its non-Federal funds. The

⁸ Published research findings (as defined by 2 C.F.R. § 200.315(e)(2)) means findings are published in a peer-reviewed scientific or technical journal; or a Federal agency publicly and officially cites the research findings in support of an agency action that has the force and effect of law. Used by the Federal government in developing an “agency action that has the force and effect of law” is defined as when an agency publicly and officially cites the research findings in support of an agency action that has the force and effect of law.

⁹ As defined by 2 C.F.R. § 200.315(e)(3), research data means the recorded factual material commonly accepted in the scientific community as necessary to validate research findings, but not any of the following: preliminary analyses, drafts of scientific papers, plans for future research, peer reviews, or communications with colleagues. This “recorded” material excludes physical objects (e.g., laboratory samples). Research data also do not include: trade secrets, commercial information, materials necessary to be held confidential by a researcher until they are published, or similar information which is protected under law; and personnel and medical information and similar information the disclosure of which would constitute a clearly unwarranted invasion of personal privacy, such as information that could be used to identify a particular person in a research study.

State will comply with 2 C.F.R. § 200.322 “Procurement of recovered materials,” and the State must ensure that every purchase order or other contract includes any clauses required by section 2 C.F.R. § 200.326 “Contract provisions.” All other non-Federal entities, including subrecipients of a State, will follow the requirements of 2 C.F.R. §§ 200.318 “General procurement standards” through 200.326 “Contract provisions.”

- a. For recipients that are States: When executing procurement actions under the award, the recipient must follow the same policies and procedures it uses for procurements from its non-Federal funds. The recipient must ensure that every purchase order or other contract contains any clauses required by federal statutes and EOs and their implementing regulations, including all of the provisions listed in Appendix II to 2 C.F.R. Part 200 “Contract Provisions for Non-Federal Entity Contracts under Federal Awards,” as well as any other provisions required by law or regulations.
- b. For recipients that are not States: The recipient must follow all procurement requirements set forth in 2 C.F.R. §§ 200.318, 200.319, 200.320, 200.321, 200.323, 200.324, and 200.325. In addition, all contracts executed by the recipient to accomplish the approved scope of work must contain any clauses required by federal statutes and EOs and their implementing regulations, including all of the provisions listed in Appendix II to 2 C.F.R. Part 200 “Contract Provisions for Non-Federal Entity Contracts under Federal Awards.”

G. NON-DISCRIMINATION REQUIREMENTS

No person in the United States shall, on the ground of race, color, national origin, handicap, age, religion, or sex, be excluded from participation in, be denied the benefits of, or be subject to discrimination under any program or activity receiving Federal financial assistance. The non-Federal entity shall comply with the non-discrimination requirements below:

.01 Statutory Provisions

- a. Title VI of the Civil Rights Act of 1964 (42 U.S.C. §§ 2000d *et seq.*) and any Council regulations and policies promulgated pursuant to its authority prohibit discrimination on the grounds of race, color, or national origin under programs or activities receiving Federal financial assistance;
- b. Title IX of the Education Amendments of 1972 (20 U.S.C. §§ 1681 *et seq.*) prohibits discrimination on the basis of sex under Federally assisted education programs or activities;
- c. The Americans with Disabilities Act of 1990 (ADA) (42 U.S.C. §§ 12101 *et seq.*) prohibits discrimination on the basis of disability under programs, activities, and services provided or made available by state and local governments or instrumentalities or agencies thereto, as well as public or private entities that provide public transportation;
- d. Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. § 794), and any Council regulations and policies promulgated pursuant to its authority prohibit discrimination on the basis of handicap under any program or activity receiving or benefiting from Federal assistance.
- e. Revised ADA Standards for Accessible Design for Construction Awards revised regulations implementing Title II of the Americans with Disabilities Act (ADA) (28 C.F.R. part 35; 75 FR 56164, as amended by 76 FR 13285) and Title III of the ADA (28 C.F.R. part 36; 75 FR 56164, as amended by 76 FR 13286) which adopted new enforceable accessibility standards called the “2010 ADA

Standards for Accessible Design” (2010 Standards). All new construction and alteration projects shall comply with the 2010 Standards.

- f. The Age Discrimination Act of 1975, as amended (42 U.S.C. §§ 6101 *et seq.*), and any Council regulations and policies promulgated pursuant to its authority prohibit discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- g. Any other applicable non-discrimination law(s).

.02 Other Provisions

- a. Parts II and III of EO 11246, “Equal Employment Opportunity,” (30 FR 12319, 1965), as amended by EO 11375 (32 FR 14303, 1967) and EO 12086 (43 FR 46501, 1978), requiring Federally-assisted construction contracts to include the nondiscrimination provisions of §§ 202 and 203 of that EO and Department of Labor regulations implementing EO 11246 (41 C.F.R. § 601.40), 1991).
- b. EO 13166 (August 11, 2000), “Improving Access to Services for Persons With Limited English Proficiency,” requiring Federal agencies to examine the services provided, identify any need for services to those with limited English proficiency (LEP), and develop and implement a system to provide those services so LEP persons can have meaningful access to them.
- c. Pilot Program for Enhancement of Employee Whistleblower Protections. The National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2013 (Pub. L. No. 112-239, enacted January 2, 2013 and codified at 41 U.S.C. § 4712) includes a pilot program of whistleblower protection. It applies to all Council awards, subawards, or contracts under awards issued beginning July 1, 2013 through January 1, 2017. The following provision implements that law:

In accordance with 41 U.S.C. § 4712, an employee of a non-Federal entity or contractor under a Federal award or subaward may not be discharged, demoted, or otherwise discriminated against as a reprisal for disclosing to a person or body information that the employee reasonably believes is evidence of gross mismanagement of a Federal award, subaward, or a contract under a Federal award or subaward, a gross waste of Federal funds, an abuse of authority relating to a Federal award or subaward or contract under a Federal award or subaward, a substantial and specific danger to public health or safety, or a violation of law, rule, or regulation related to a Federal award, subaward, or contract under a Federal award or subaward. These persons or bodies include:

1. A Member of Congress or a representative of a committee of Congress.
2. An Inspector General.
3. The Government Accountability Office.
4. A Federal employee responsible for contract or grant oversight or management at the relevant agency.
5. An authorized official of the Department of Justice or other law enforcement agency.
6. A court or grand jury.
7. A management official or other employee of the contractor, subcontractor, or grantee who has the responsibility to investigate, discover, or address misconduct.

Non-Federal entities shall inform their employees in writing of the rights and remedies provided under 41 U.S.C. § 4712, in the predominant native language of the workforce.

.03 Title VII Exemption for Religious Organizations

Generally, Title VII of the Civil Rights Act of 1964, 42 U.S.C. § 2000e *et seq.*, provides that it shall be an unlawful employment practice for an employer to discharge any individual or otherwise to discriminate against an individual with respect to compensation, terms, conditions, or privileges of employment because of such individual's race, color, religion, sex, or national origin. However, Title VII, 42 U.S.C. § 2000e-1(a), expressly exempts from the prohibition against discrimination on the basis of religion, a religious corporation, association, educational institution, or society with respect to the employment of individuals of a particular religion to perform work connected with the carrying on by such corporation, association, educational institution, or society of its activities.

H. RECORDS RETENTION

- a. The recipient must retain all records pertinent to this award for a period of no less than three years, beginning on a date as described in 2 C.F.R. § 200.333. While electronic storage of records (backed up as appropriate) is preferable, the recipient has the option to store records in hardcopy (paper) format. For the purposes of this section, the term "records" includes but is not limited to:
1. Copies of all contracts and all documents related to a contract, including the Request for Proposal (RFP), all proposals/bids received, all meeting minutes or other documentation of the evaluation and selection of contractors, any disclosed conflicts of interest regarding a contract, all signed conflict of interest forms (if applicable), all conflict of interest and other procurement rules governing a particular contract, and any bid protests;
 2. Copies of all subawards, including the funding opportunity announcement or equivalent, all applications received, all meeting minutes or other documentation of the evaluation and selection of subrecipients, any disclosed conflicts of interest regarding a subaward, and all signed conflict of interest forms (if applicable);
 3. All documentation of site visits, reports, audits, and other monitoring of contractors (vendors) and subrecipients (if applicable);
 4. All financial and accounting records, including records of disbursements to contractors (vendors) and subrecipients, and documentation of the allowability of Administrative Costs charged to this award;
 5. All supporting documentation for the performance outcome and other information reported on the recipient's Financial Reports and Performance (Technical) Reports; and
 6. Any reports, publications, and data sets from any research conducted under this award.
- b. If any litigation, claim, investigation, or audit relating to this award or an activity funded with award funds is started before the expiration of the three year period, the records must be retained until all litigation, claims, investigations, or audit findings involving the records have been resolved and final action taken.

I. AUDITS

- a. Under the Government Accounting Office's authorities (5 U.S.C. § 701 et seq.) and the Inspector General Act of 1978, as amended, 5 U.S.C. App. 3, § 1 *et seq.*, an audit of the award may be conducted at any time. The Treasury Office of Inspector General (OIG), Government Accounting Office (GAO) and the Council are authorized to audit Council awards. *See* Section 1608 of the RESTORE Act; and *see* 31 C.F.R. §§ 34.205, 34.406, 34.508 and 34.805.
- b. The Treasury OIG (as specified in the RESTORE Act), or any of his or her duly authorized representatives, the GAO and the Council shall have timely and unrestricted access to any pertinent books, documents, papers, and records of the non-Federal entity, whether written, printed, recorded, produced, or reproduced by any electronic, mechanical, magnetic, or other process or medium, in order to make audits, inspections, excerpts, transcripts, or other examinations as authorized by law.
- c. If the Treasury OIG requires a program audit on a Council award, the OIG will usually make the arrangements to audit the award, whether the audit is performed by OIG personnel, an independent accountant under contract with the Council, or any other Federal, state, or local audit entity.
- d. The Treasury OIG, the GAO, and the Council shall have the right during normal business hours to conduct announced and unannounced onsite and offsite physical visits of recipients and their subrecipients and contractors corresponding to the duration of their records retention obligation for this award.

.01 Organization-Wide, Program-Specific, and Project Audits

- a. Organization-wide or program-specific audits must be performed in accordance with the Single Audit Act Amendments of 1996, as implemented by 2 C.F.R. part 200, Subpart F, "Audit Requirements." Recipients that are subject to the provisions of 2 C.F.R. part 200, Subpart F and that expend \$750,000 or more in a year in Federal awards must have an audit conducted for that year in accordance with the requirements contained in 2 C.F.R. part 200, Subpart F. A copy of the audit shall be submitted to the Bureau of the Census, which has been designated by OMB as a central clearinghouse, by electronic submission to the Federal Audit Clearinghouse [website](#).¹⁰ If it is necessary to submit by paper, the address for submission is:

Federal Audit Clearinghouse
Bureau of the Census
1201 E. 10th Street
Jeffersonville, IN 47132

- b. Except for the provisions for biennial audits provided in paragraphs (1) and (2) of this section, audits required must be performed annually. Any biennial audit must cover both years within the biennial period.
 1. A State, local government, or Indian tribe that is required by constitution or statute, in effect on January 1, 1987, to undergo its audits less frequently than annually, is permitted to undergo its audits pursuant to this part biennially. This requirement must still be in effect for the biennial period.

¹⁰ Federal Audit Clearinghouse website - <http://harvester.census.gov/sac/>, verified on 6/5/2015.

2. Any nonprofit organization that had biennial audits for all biennial periods ending between July 1, 1992, and January 1, 1995, is permitted to undergo its audits pursuant to this part biennially.
- c. Council programs may have specific audit guidelines that will be incorporated into the award. When the Council does not have a program-specific audit guide available for the program, the auditor will follow the requirements for a program-specific audit as described in 2 C.F.R. § 200.507. The non-Federal entity may include a line item in the budget for the cost of the audit for approval. A copy of the program-specific audit shall be submitted to the Grants Officer and to the OIG at OIGCounsel@oig.treas.gov or if e-mail is unavailable, submission to the OIG can be made at the following address:

Treasury Office of Inspector General
1500 Pennsylvania Ave. NW
Washington, DC 20220

.02 Audit Resolution Process

- a. An audit of the award may result in the disallowance of costs incurred by the non-Federal entity and the establishment of a debt (account receivable) due the Council. For this reason, the non-Federal entity should take seriously its responsibility to respond to all audit findings and recommendations with adequate explanations and supporting evidence whenever audit results are disputed.
- b. A non-Federal entity whose award is audited has the following opportunities to dispute the proposed disallowance of costs and the establishment of a debt:
 1. Unless the Inspector General determines otherwise, the non-Federal entity has 30 days after the date of the transmittal of the draft audit report to submit written comments and documentary evidence.
 2. The non-Federal entity has 30 days after the date of the transmittal of the final audit report to submit written comments and documentary evidence. There will be no extension of this deadline.
 3. The Council will review the documentary evidence submitted by the non-Federal entity and notify the non-Federal entity of the results in an *Audit Resolution Determination Letter*. The non-Federal entity has 30 days after the date of receipt of the *Audit Resolution Determination Letter* to submit a written appeal. There will be no extension of this deadline. The appeal is the last opportunity for the non-Federal entity to submit written comments and documentary evidence that dispute the validity of the audit resolution determination.
 4. An appeal of the Audit Resolution Determination does not prevent the establishment of the audit-related debt nor does it prevent the accrual of interest on the debt. If the Audit Resolution Determination is overruled or modified on appeal, appropriate corrective action will be taken retroactively. An appeal will stay the offset of funds owed by the auditee against funds due to the auditee.
 5. The Council will review the non-Federal entity's appeal and notify the non-Federal entity of the results in an *Appeal Determination Letter*. After the opportunity to appeal has expired or after the appeal determination has been rendered, the Council will not accept any further documentary evidence from the non-Federal entity. No other administrative appeals to the Council are available.

J. DEBTS

.01 Payment of Debts Owed the Federal Government

- a. The non-Federal entity must promptly pay any debts determined to be owed the Federal Government. Council debt collection procedures are set out in 2 C.F.R. part 200, Subpart D. In accordance with 2 C.F.R. § 200.345, delinquent debt includes any funds paid to the non-Federal entity in excess of the amount to which the non-Federal entity is finally determined to be entitled under the terms of the Federal award, constituting a debt to the Federal government (this includes a post-delinquency payment agreement) unless other satisfactory payment arrangements have been made. In accordance with 2 C.F.R. § 200.345, failure to pay a debt by the due date, or if there is no due date, within 90 calendar days after demand, shall result in the assessment of interest, penalties and administrative costs in accordance with the provisions of 31 U.S.C. § 3717 and 31 C.F.R. parts 900 through 999. The Council will transfer any debt that is more than 180 days delinquent to the Bureau of the Fiscal Service for debt collection services, a process known as “cross-servicing,” pursuant to 31 U.S.C. § 3711(g), 31 C.F.R. § 285.12 and any Council regulations and policies promulgated pursuant to its authority, and may result in the Council taking further action as specified in Section B.06 “Non-Compliance With Award Provisions” Above. Funds for payment of a debt shall not come from other Federally-sponsored programs. Verification that other Federal funds have not been used will be made (e.g., during on-site visits and audits).
- b. If a non-Federal entity fails to repay a debt within 90 calendar days after the demand, the Council may reduce the debt by: (1) Making an administrative offset against other requests for reimbursements; (2) Withholding advance payments otherwise due to the non-Federal entity; or (3) Other action permitted by Federal statute. *See* 2 C.F.R. § 200.345(a).

.02 Late Payment Charges

- a. Interest shall be assessed on the delinquent debt in accordance with section 3717(a) of the Debt Collection Act of 1982, as amended (31 U.S.C. § 3701 *et seq.*). The minimum annual interest rate to be assessed is the [Department of the Treasury’s Current Value of Funds Rate \(CVFR\)](#).¹¹ The CVFR is published by the Department of the Treasury in the [Federal Register](#)¹² and in the [Treasury Financial Manual Bulletin](#).¹³ The assessed rate shall remain fixed for the duration of the indebtedness.
- b. Penalties shall accrue at a rate of not more than six percent (6%) per year or such higher rate as authorized by law.
- c. Administrative charges, that is, the costs of processing and handling a delinquent debt, are determined by the Council.

¹¹ Department of the Treasury’s Current Value of Funds Rate (CVFR) webpage - https://www.fiscal.treasury.gov/fsreports/rpt/cvfr/cvfr_home.htm, verified 8/18/2015.

¹² Federal Register website - <http://www.gpo.gov/fdsys/browse/collection.action?collectionCode=FR> and <http://www.federalregister.gov/>, verified 8/18/2015.

¹³ Treasury Financial Manual Bulletin website - <http://tfm.fiscal.treasury.gov/v1/bull.html>, verified 8/18/2015.

.03 Effect of Judgment Lien on Eligibility for Federal Grants, Loans, or Programs

Pursuant to 28 U.S.C. § 3201(e), unless waived by the Council a debtor who has a judgment lien against the debtor's property for a debt to the United States shall not be eligible to receive any grant or loan that is made, insured, guaranteed, or financed directly or indirectly by the United States or to receive funds directly from the Federal Government in any program, except funds to which the debtor is entitled as beneficiary, until the judgment is paid in full or otherwise satisfied.

K. GOVERNMENTWIDE DEBARMENT AND SUSPENSION

The non-Federal entity shall comply with the provisions of 2 C.F.R. Part 180, "OMB Guidelines To Agencies on Governmentwide Debarment and Suspension (Nonprocurement)," which generally prohibit entities, and their principals, that have been debarred, suspended, or voluntarily excluded from participating in Federal nonprocurement transactions either through primary or lower tier covered transactions, and which sets forth the responsibilities of recipients of Federal financial assistance regarding transactions with other persons, including subrecipients and contractors.

L. LOBBYING RESTRICTIONS

.01 Statutory Provisions

The non-Federal entity shall comply with 2 C.F.R. § 200.450 ("Lobbying"), which incorporates the provisions of 31 U.S.C. § 1352, the "New Restrictions on Lobbying" published at 55 FR 6736 (February 26, 1990), and OMB guidance and notices on lobbying restrictions. In addition, non-Federal entities must comply with any Council regulations and policies promulgated pursuant to its authority. These provisions prohibit the use of Federal funds for lobbying the executive or legislative branches of the Federal Government in connection with the award, and require the disclosure of the use of non-Federal funds for lobbying. Executive lobbying costs, i.e., costs incurred in attempting to improperly influence¹⁴ either directly or indirectly an employee or officer of the executive branch of the Federal government to give consideration or to act regarding a Federal award or a regulatory matter, are unallowable costs. *See* 2 C.F.R. § 200.450(b) and (c).

.02 Disclosure of Lobbying Activities

The non-Federal entity receiving in excess of \$100,000 in Federal funding shall submit a completed Form SF-LLL or any successor form, "Disclosure of Lobbying Activities," regarding the use of non-Federal funds for lobbying. The Form SF-LLL shall be submitted within 30 days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. The non-Federal entity must submit any required Forms SF-LLL, including those received from subrecipients, contractors, and subcontractors, to the Grants Officer. *See* 31 U.S.C. § 1352.

¹⁴ To improperly influence means any influence that induces or tends to induce a Federal employee or officer to give consideration or to act regarding a Federal award or regulatory matter on any basis other than the merits of the matter.

M. REMEDIES FOR NONCOMPLIANCE

- a. If a non-Federal entity fails to comply with Federal statutes, regulations or the terms and conditions of a Federal award, the Council or pass-through entity may impose additional conditions, as described in 2 C.F.R. § 200.207 “Specific conditions” (e.g., requiring additional reporting or more frequent submission of the Financial or Performance (Technical) Reports; requiring additional activity, project, or program monitoring; requiring the recipient or one or more of its subrecipients to obtain technical or management assistance; or establishing additional actions that require prior approval). If the Council or pass-through entity determines that noncompliance cannot be remedied by imposing additional conditions, pursuant to 2 C.F.R. § 200.338, the Council or pass-through entity may take one or more of the following actions, as appropriate in the circumstances:
1. Temporarily withhold cash payments pending correction of the deficiency by the non-Federal entity or more severe enforcement action by the Council or pass-through entity.
 2. Disallow (that is, deny both use of funds and any applicable matching credit for) all or part of the cost of the activity or action not in compliance.
 3. Wholly or partly suspend or terminate the Federal award.
 4. Initiate suspension or debarment proceedings as authorized under 2 C.F.R. part 180 and Council regulations (or in the case of a pass-through entity, recommend such a proceeding be initiated by the Council).
 5. Withhold further Federal awards for the project or program.
 6. Take other remedies that may be legally available.

The Council will notify the recipient in writing of the Council’s proposed determination that an instance of non-compliance has occurred, provide details regarding the instance of noncompliance, and indicate the remedy that the Council proposes to pursue. The recipient will then have 30 calendar days to respond and provide information and documentation contesting the Council’s proposed determination or suggesting an alternative remedy. The Council will consider information provided by the recipient and issue a final determination in writing, which will state the Council’s final findings regarding non-compliance and the remedy to be imposed.

- b. RESTORE Act-Specific Remedy for Non-compliance
1. If the Council determines that the recipient has expended funds to cover the cost of any ineligible activities, in addition to the remedies available in this section, the Council, in coordination with the U.S. Department of Treasury (“Treasury”), will make no additional payments to the recipient from the RESTORE Trust Fund, including no payments from the RESTORE Trust Fund for activities, projects, or programs under any other RESTORE Act Component until the recipient has either (a) deposited an amount equal to the amount expended for the ineligible activities in the RESTORE Trust Fund, or (b) the Council, in coordination with Treasury, has authorized the recipient to expend an equal amount from the recipient’s own funds for an activity that meets the requirements of the RESTORE Act. *See* 33 U.S.C. § 1321(t)(1)(G) and (H), and *see* 31 C.F.R. § 34.804 “Noncompliance.”

2. If the Council determines that the recipient has materially violated the terms of the award, the Council, in coordination with Treasury, will make no additional funds available to the recipient from any part of the RESTORE Trust Fund until the recipient corrects the violation.
- c. In extraordinary circumstances, the Council may require that any of the remedies above take effect immediately upon notice in writing to the recipient. In such cases, the recipient may contest the Council's determination or suggest an alternative remedy in writing to the Council, and the Council will issue a final determination.
- d. Instead of, or in addition to, the remedies listed above, the Council may refer the noncompliance to the Treasury OIG for investigation or audit, pursuant to 31 C.F.R. § 34.805 "Treasury Inspector General." The Council will refer all allegations of fraud, waste, or abuse to the Treasury OIG.
- e. Termination. In accordance with 2 C.F.R. § 200.339, when a Federal award is terminated or partially terminated, both the Council or pass-through entity and the non-Federal entity remain responsible for compliance with the requirements in 2 C.F.R. §§ 200.343 "Closeout" and 200.344 "Post-closeout adjustments and continuing responsibilities."
1. The Federal award may be terminated in whole or in part as follows:
 - i. By the Council or pass-through entity, if a non-Federal entity fails to comply with the terms and conditions of a Federal award;
 - ii. By the Council or pass-through entity for cause;
 - iii. By the Council or pass-through entity with the consent of the non-Federal entity, in which case the two parties will agree upon the termination conditions, including the effective date and, in the case of partial termination, the portion to be terminated; or
 - iv. By the non-Federal entity upon sending to the Council or pass-through entity written notification setting forth the reasons for such termination, the effective date, and, in the case of partial termination, the portion to be terminated. However, if the Council or pass-through entity determines in the case of partial termination that the reduced or modified portion of the Federal award or subaward will not accomplish the purposes for which the Federal award was made, the Council or pass-through entity may terminate the Federal award in its entirety.
2. The Council or pass-through entity is required to provide a notice of termination to the non-federal entity pursuant to 2 C.F.R. § 200.340:
 - i. If the Federal award is terminated for the non-Federal entity's failure to comply with the Federal statutes, regulations, or terms and conditions of the Federal award, the notification must state that the termination decision may be considered in evaluating future applications received from the non-Federal entity.
 - ii. Upon termination of a Federal award, the Council will provide the information required under FFATA to the Federal Web site established to fulfill the requirements of FFATA, and update or notify any other relevant governmentwide systems or entities of any indications of poor performance as required by 41 U.S.C. § 417b and 31 U.S.C. § 3321 and implementing guidance at 2 C.F.R. part 77. See also 2 C.F.R. part 180 for the requirements for Suspension and Debarment.

N. CODES OF CONDUCT AND SUBAWARD, CONTRACT, AND SUBCONTRACT PROVISIONS

.01 Code of Conduct for Recipients

- a. The non-Federal entity must immediately report any indication of fraud, waste, abuse or potential criminal activity pertaining to grant funds to the Council, Treasury and the Treasury Inspector General in accordance with the requirements in 31 C.F.R. § 34.803(a).
- b. Pursuant to the certification in Form SF-424B, paragraph 3, or equivalent, the non-Federal entity must maintain written standards of conduct to establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain in the administration of this award.
- c. Non-Federal entities must comply with the requirements of 2 C.F.R. § 200.318, “General procurement standards,” including maintaining written standards of conduct covering conflicts of interest and governing the performance of its employees engaged in the selection, award and administration of contracts. No employee, officer or agent shall participate in the selection, award or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to or planning to employ any of the foregoing parties, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract. The officers, employees and agents of the non-Federal entity must neither solicit nor accept any gratuities, favors or anything of monetary value from contractors or parties to subcontracts. However, non-Federal entities may set written standards of conduct for circumstances in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. Such standards must provide for disciplinary actions to be taken for violations of the standards of conduct by officers, employees or agents of the non-Federal entity.

.02 Applicability of Award Provisions to Subrecipients

- a. The non-Federal entity shall require all subrecipients, including lower tier subrecipients, under the award to comply with the provisions of the award, including applicable cost principles, administrative provisions, audit requirements, and all associated terms and conditions. *See* 2 C.F.R. part 200, Subpart D, “Subrecipient Monitoring and Management” *and see* 2 C.F.R. § 200.101(b)(1). Additionally, the non-Federal entity must perform all responsibilities required of a pass-through entity, as specified in 2 C.F.R. Part 200, including evaluating and documenting a subrecipient’s risk of noncompliance; providing training and technical assistance necessary to complete the subaward activities; monitoring the performance of the subrecipient; and taking any necessary enforcement actions against a noncompliant subrecipient. *See* 2 C.F.R. § 200.331 “Requirements for pass through entities.”
- b. Prior to dispersing funds to a subrecipient, the recipient must execute a legally-binding written agreement with the entity receiving the subaward in accordance with the requirements in 31 C.F.R. § 34.803(c). The written agreement shall extend all applicable program requirements to the subrecipient. The written agreement must include a requirement that the contractor or subrecipient retain all records in compliance with 2 C.F.R. § 200.333.
- c. A non-Federal entity is responsible for subrecipient monitoring, including the following:

1. Federal Award Identification. The non-Federal entity must ensure that each subaward includes the following information and applicable compliance requirements at the time of the subaward. If any of these data elements change, the pass through entity must include the changes in a subsequent subaward modification. When some of this information is not available, the pass-through entity must provide the best information available to describe the Federal award and subaward.
 - i. Subrecipient name (which must match the registered name in DUNS);
 - ii. Subrecipient's DUNS number (*see* 2 C.F.R. § 200.32 "Data Universal Numbering System (DUNS) number");
 - iii. Federal Award Identification Number (FAIN);
 - iv. Federal Award Date (*see* 2 C.F.R. § 200.39 "Federal award date");
 - v. Subaward Period of Performance Start and End Date;
 - vi. Amount of Federal Funds Obligated by this action;
 - vii. Total Amount of Federal Funds Obligated to the subrecipient;
 - viii. Total Amount of the Federal Award;
 - ix. Federal award project description, as required to be responsive to the Federal Funding Accountability and Transparency Act (FFATA);
 - x. Name of Federal awarding agency, pass-through entity and contact information for awarding official;
 - xi. CFDA Number and Name; the pass-through entity must identify the dollar amount made available under each Federal award and the CFDA number at time of disbursement;
 - xii. Identification of whether the award is for research and development (R&D); and
 - xiii. Indirect cost rate for the Federal award (including whether the *de minimis* rate is charged per 2 C.F.R. § 200.414 "Indirect (F&A) costs").
2. Award Monitoring. The non-Federal entity is responsible for oversight of the operations of the Federal award supported activities. The non-Federal entity must monitor its activities under Federal awards to assure that compliance with applicable Federal requirements and performance expectations are being achieved. Monitoring by the non-Federal entity must cover each program, function or activity. *See* 2 C.F.R. §§ 200.328 "Monitoring and reporting program performance," and 200.331 "Requirements for pass-through entities." The non-Federal entity shall monitor activities of the subrecipient through reporting, site visits, regular contact, or other means, as necessary to ensure that the subaward is used solely for authorized purposes, in compliance with Federal statutes, regulations and the terms and conditions of the subaward; and that subaward performance goals are achieved. Pass-through entity monitoring of the subrecipient must include:
 - i. Reviewing financial and programmatic reports required by the pass-through entity.
 - ii. Following-up and ensuring that the subrecipient takes timely and appropriate action on all deficiencies pertaining to the Federal award provided to the subrecipient from the pass-through entity detected through audits, on-site reviews, and other means.
 - iii. Issuing a management decision for audit findings pertaining to the Federal award provided to the subrecipient from the pass-through entity as required by 2 C.F.R. § 200.521 "Management decision."
3. Subrecipient Audits. The non-Federal entity is responsible for ensuring that subrecipients expending \$750,000 or more in Federal awards during the subrecipient's fiscal year have met the audit requirements of 2 C.F.R. part 200, Subpart F, "Audit Requirements," and that the required audits are completed within nine (9) months after the end of the subrecipient's audit period. In addition, the non-Federal entity is required to issue a management decision on audit findings within six (6) months after receipt of the subrecipient's audit report, and to ensure that the

subrecipient takes timely and appropriate corrective action on all audit findings. Pursuant to 2 C.F.R. § 200.505, in cases of continued inability or unwillingness to have an audit conducted in accordance with this part, Federal agencies and pass-through entities must take appropriate action as provided in 2 C.F.R. § 200.338 “Remedies for noncompliance.”

.03 Competition and Codes of Conduct for Subawards

- a. Unless otherwise approved in writing in advance by the Grants Officer, all subawards will be made in a manner to provide, to the maximum extent practicable, open and free competition in accordance with the requirements of 2 C.F.R. §§ 200.317 through 200.326 “Procurement Standards.” The non-Federal entity must be alert to organizational conflicts of interest as well as other practices among subrecipients that may restrict or eliminate competition. In order to ensure objective subrecipient performance and eliminate unfair competitive advantage, subrecipients that develop or draft work requirements, statements of work, or requests for proposals shall be excluded from competing for such subawards.
- b. The non-Federal entity must maintain written standards of conduct covering conflicts of interest and governing the performance of its employees engaged in the selection, award and administration of contracts. No employee, officer, or agent must participate in the selection, award, or administration of a contract supported by a Federal award if he or she has a real or apparent conflict of interest. Such a conflict of interest would arise when the employee, officer, or agent, any member of his or her immediate family, his or her partner, or an organization which employs or is about to or planning to employ any of the foregoing parties, has a financial or other interest in or a tangible personal benefit from a firm considered for a contract. The officer, employees, and agents of the non-Federal entity shall neither solicit nor accept gratuities, favors or anything of monetary value from contractors or parties to subcontracts. However, non-Federal entities may set standards of conduct for circumstances in which the financial interest is not substantial or the gift is an unsolicited item of nominal value. Such standards must provide for disciplinary actions to be taken for violations of the standards of conduct by officers, employees or agents of the non-Federal entity.
- c. If the non-Federal entity has a parent, affiliate or subsidiary organization that is not a State, local government or Indian tribe, the non-Federal entity must also maintain written standards of conduct covering organizational conflicts of interest, wherein relationships with a parent company, affiliate or subsidiary organization cause the non-Federal entity to be or appear to be unable to be impartial in conducting a procurement action involving such related organization.
- d. A financial interest may include employment, stock ownership, a creditor or debtor relationship, or prospective employment with the organization selected or to be selected for a subaward. An appearance of impairment of objectivity may result from an organizational conflict where, because of other activities or relationships with other persons or entities, a person is unable or potentially unable to render impartial assistance or advice. It may also result from non-financial gain to the individual, such as benefit to reputation or prestige in a professional field.

.04 Applicability of Provisions to Subawards, Contracts, and Subcontracts

- a. The non-Federal entity shall include the following notice in each request for applications or bids for a subaward, contract, or subcontract, as applicable:

Applicants or bidders for a lower tier covered transaction (except procurement contracts for goods and services under \$25,000 not requiring the consent of a Council official) are subject to 2 C.F.R. Part 180, “OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement).” In addition, applicants or bidders for a lower tier covered transaction for a subaward, contract, or subcontract greater than \$100,000 of Federal funds at any tier are subject to relevant statutes, including among others, the provisions of 31 U.S.C. 1352, as well as the common rule, “New Restrictions on Lobbying,” published at 55 FR 6736 (February 26, 1990), including definitions, and the Office of Management and Budget “Governmentwide Guidance for New Restrictions on Lobbying,” and notices published at 54 FR 52306 (December 20, 1989), 55 FR 24540 (June 15, 1990), 57 FR 1772 (January 15, 1992), and 61 FR 1412 (January 19, 1996).

When the recipient makes a subaward to a subrecipient that is authorized to enter into contracts for the purpose of completing the subaward scope of work, the recipient must require the subrecipient to comply with the requirements contained in this section.

- b. Pursuant to 2 C.F.R. Appendix II to part 200, “Contract Provisions for Non-Federal Entity Contracts Under Federal Awards,” and in addition to other provisions required by the Federal agency or non-Federal entity, all contracts made by the non-Federal entity under the Federal award must contain provisions covering the following, as applicable:
1. Contracts for more than the Simplified Acquisition Threshold (\$150,000 as of 12-26-2013), which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. § 1908, must address administrative, contractual or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.
 2. All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.
 3. Equal Employment Opportunity. Except as otherwise provided under 41 C.F.R. part 60, all contracts that meet the definition of “Federally assisted construction contract” in 41 C.F.R. part 60-1.3 must include the equal opportunity clause provided under 41 C.F.R. 60-1.4(b), in accordance with EO 11246, “Equal Employment Opportunity” (30 F.R. 12319, 12935, 3 C.F.R. part, 1964-1965 Comp. p. 339), as amended by EO 11375, “Amending Executive Order 11246 Relating to Equal Employment Opportunity,” and implementing regulations at 41 C.F.R. part 60, “Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor.”
 4. Davis-Bacon Act. When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by non-Federal entities must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. §§ 3141-3144, and 3146-3148) as supplemented by Department of Labor regulations (29 C.F.R. part 5, “Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction”). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Council. The contracts must also include a provision for compliance with the Copeland “Anti-Kickback” Act (40 U.S.C. § 3145), as supplemented by Department of

Labor regulations (29 C.F.R. part 3, “Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States”). The Act provides that each contractor or subrecipient must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she is otherwise entitled. The non-Federal entity must report all suspected or reported violations to the Council.

5. Contract Work Hours and Safety Standards Act (40 U.S.C. §§ 3701-3708). Where applicable, all contracts awarded by the non-Federal entity in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. §§ 3702 and 3704, as supplemented by Department of Labor regulations (29 C.F.R. part 5). Under 40 U.S.C. § 3702 of the Act, each contractor must be required to compute the wages of every mechanic and laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. § 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence.
6. Rights to Inventions Made Under a Contract or Agreement. If the Federal award meets the definition of “funding agreement” under 37 C.F.R. § 401.2(a) and the non-Federal entity or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that “funding agreement,” the non-Federal entity or subrecipient must comply with the requirements of 37 C.F.R. part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements,” and any implementing regulations issued by the awarding agency.
7. Mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. § 6201).
8. Debarment and Suspension (Executive Orders 12549 and 12689). A contract award (*see* 2 C.F.R. § 180.220) must not be made to parties listed on the governmentwide Excluded Parties List System in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 C.F.R. part 180 that implement Executive Orders 12549 (3 C.F.R. part 1986 Comp., p. 189) and 12689 (3 C.F.R. part 1989 Comp., p. 235), “Debarment and Suspension.” The Excluded Parties List System in [SAM](#)¹⁵ contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties declared ineligible under statutory or regulatory authority other than Executive Order 12549.
9. Byrd Anti-Lobbying Amendment (31 U.S.C. § 1352). Contractors that apply or bid for an award of \$100,000 or more must file the required certification, a “Disclosure of Lobbying Activities” (Form SF-LLL or successor form). Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal

¹⁵ System for Award Management (SAM) website - <https://www.sam.gov>, verified 8/18/2015.

contract, grant or any other award covered by 31 U.S.C. § 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier-to-tier up to the Federal award recipient. The Form SF-LLL must be submitted within 15 days following the end of the calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed. The non-Federal entity must submit all disclosure forms received, including those that report lobbying activity on its own behalf, to the Grants Officer within 30 days following the end of the calendar quarter.

10. Procurement of recovered materials (section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act). A state agency or agency of a political subdivision of a State and its contractors must comply with requirements of Section 6002 including procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 C.F.R. part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired by the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.
 11. Pilot Program for Enhancement of Employee Whistleblower Protections. The National Defense Authorization Act (NDAA) for Fiscal Year (FY) 2013 (Pub. L. No. 112-239, enacted January 2, 2013 and codified at 41 U.S.C. § 4712) includes a pilot program of whistleblower protection. It applies to all Council awards, subawards, or contracts under awards issued beginning July 1, 2013 through January 1, 2017. Non-Federal entities and contractors under Federal awards and subawards shall inform their employees in writing of the rights and remedies provided under 41 U.S.C. § 4712, in the predominant native language of the workforce. *See* section G.02 (c) of this document.
- c. The recipient must include in its legal agreement or contract with the subrecipient a requirement that the subrecipient make available to the Council, the Treasury OIG, and the GAO any documents, papers or other records, including electronic records, of the subrecipient, that are pertinent to this award, in order to make audits, investigations, examinations, excerpts, transcripts, and copies of such documents. This right also includes timely and reasonable access to the subrecipient's personnel for the purpose of interview and discussion related to such documents. This right of access shall continue as long as records are required to be retained.
 - d. The recipient and any subrecipients, contractors, or subcontractors must comply with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328), as applicable, which limit the political activities of employees whose principal employment activities are funded in whole or in part with federal funds.
 - e. When contracting, the non-Federal entity must take all necessary affirmative steps, as prescribed in 2 C.F.R. § 200.321(b), to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.

.05 Subaward and/or Contract to a Federal Agency

- a. The non-Federal entity, subrecipient, contractor, and/or subcontractor shall not sub-grant or sub-contract any part of the approved project to any agency or employee of the Council and/or other

Federal department, agency, or instrumentality without the prior written approval of the Grants Officer.

- b. Requests for approval of such action must be submitted in writing to the Grants Officer. The Grants Officer will notify the non-Federal entity in writing of the final determination.

O. AMENDMENTS AND CLOSEOUT

- a. Amendments to an award must be requested in writing and require the written approval of the Grants Officer. The recipient must provide an explanation for the reason an amendment is requested. The Council reserves the right to amend the terms of the award when required by law or regulation.
- b. The non-Federal entity must comply with the closeout requirements as stipulated in 2 C.F.R. § 200.343. Closeout of the award does not affect any of the post-closeout adjustments and continuing responsibilities under 2 C.F.R. § 200.344.

P. ENVIRONMENTAL COMPLIANCE

Environmental impacts must be considered by Federal decision-makers in deciding whether or not to approve: (1) a proposal for Federal assistance; (2) such proposal with mitigation; or (3) a different proposal having less adverse environmental impacts. Federal environmental laws require that the funding agency initiate an early planning process that considers potential impacts that projects funded with Federal assistance may have on the environment. Non-Federal entities must comply with all applicable environmental laws, regulations and policies. Additionally, recipients may be required to assist the Council in complying with laws, regulations and policies applicable to Council actions. Laws, regulations, and policies potentially applicable to Council actions and/or recipients may include but are not limited to the statutes and EOs listed below. The Council does not make independent determinations of compliance with laws such as the Clean Water Act. Rather, the Council may require a recipient to provide information to the Council to demonstrate that the recipient has complied with or will comply with all such requirements. In some cases, if additional information is required after an application is selected, funds may be withheld by the Grants Officer under a special award condition requiring the recipient to submit additional information sufficient to enable the Council to make an assessment regarding compliance with applicable environmental laws, regulations and policies.

If a recipient is permitted to make any subawards, the recipient must include all of the environmental statutes, regulations and EOs listed below in any agreement or contract with a subrecipient, and require the subrecipient to comply with all of these and to notify the recipient if the subrecipient becomes aware of any impact on the environment that was not noted in the recipient's approved application package.

.01 The National Environmental Policy Act (42 U.S.C. § 4321 *et seq.*)

Council approval of financial assistance awards may be subject to the environmental review requirements of the National Environmental Policy Act (NEPA). In such cases, recipients of financial assistance awards may be required to assist the Council in complying with NEPA. For example, applicants may be required to assist the Council by providing information on a proposal's potential environmental impacts, or drafting or supplementing an environmental assessment or environmental impact statement if the Council determines such documentation is required. Independent of the Council's responsibility to comply with

NEPA, where appropriate, projects or programs funded by the Council may trigger Federal agency NEPA compliance duties involving a separate Federal action, such as the issuance of a Federal permit.

.02 The Endangered Species Act (16 U.S.C. § 1531 *et seq.*)

Council approval of financial assistance for project implementation is subject to compliance with section 7 of the Endangered Species Act (ESA). Recipients must identify any impact or activities that may involve a Federally-listed threatened or endangered species, or their designated critical habitat. Section 7 of the ESA requires every Federal agency to ensure that any action it authorizes, funds or carries out, in the United States or upon the high seas, is not likely to jeopardize the continued existence of any listed species or result in the destruction or adverse modification of designated critical habitat. Federal agencies have the responsibility for ensuring that a protected species or habitat does not incur adverse effects from actions taken under Federal assistance awards, and for conducting the required consultations with the National Marine Fisheries Service (NMFS) and the U.S. Fish and Wildlife Service under the Endangered Species Act, as applicable.

.03 Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. § 1801 *et seq.*)

Recipients of financial assistance awards must identify to the Council any effects the award may have on essential fish habitat (EFH). Federal agencies which fund, permit, or carry out activities that may adversely impact EFH are required to consult with NMFS regarding the potential effects of their actions, and respond in writing to NMFS recommendations. These recommendations may include measures to avoid, minimize, mitigate, or otherwise offset adverse effects on EFH. In addition, NMFS is required to comment on any state agency activities that would impact EFH. Provided the specifications outlined in the regulations are met, EFH consultations will be incorporated into interagency procedures previously established under NEPA, the Endangered Species Act, Clean Water Act, Fish and Wildlife Coordination Act, or other applicable statutes.

.04 Clean Water Act Section 404 (33 U.S.C. § 1344 *et seq.*)

Clean Water Act (CWA) Section 404 regulates the discharge of dredged or fill material into waters of the United States, including wetlands. Activities in waters of the United States regulated under this program include fill for development, water resource projects (such as levees and some coastal restoration activities), and infrastructure development (such as highways and airports). CWA Section 404 requires a permit from the U.S. Army Corps of Engineers before dredged or fill material may be discharged into waters of the United States, unless the activity is exempt from Section 404 regulation (e.g., certain farming and forestry activities).

.05 The Migratory Bird Treaty Act (16 U.S.C. §§ 703-712), Bald and Golden Eagle Protection Act (16 U.S.C. § 668 *et seq.*), and Executive Order No. 13186, Responsibilities of Federal Agencies to Protect Migratory Birds

A number of prohibitions and limitations apply to projects that adversely impact migratory birds and bald and golden eagles. Executive Order 13186 directs Federal agencies to enter a Memorandum of Understanding with the U.S. Fish and Wildlife Service to promote conservation of migratory bird populations when a Federal action will have a measurable negative impact on migratory birds.

.06 National Historic Preservation Act (16 U.S.C. § 470 *et seq.*)

Council approval of financial assistance awards may be subject to Section 106 of the National Historic Preservation Act (NHPA). In such cases, recipients of financial assistance awards may be requested to assist the Council in identifying any adverse effects the award may have on properties included on or eligible for inclusion on the National Register of Historic Places. Pursuant to 36 C.F.R. § 800.2(c)(4), applicants and recipients may also be requested to assist the Council in initiating consultation with State or Tribal Historic Preservation Officers, Indian tribes, Native Hawaiian Organizations or other applicable interested parties as necessary to the Council's responsibilities to identify historic properties, assess adverse effects to them, and determine ways to avoid, minimize or mitigate adverse effects on historic properties.

Pursuant to guidelines issued by the National Park Service under the Abandoned Shipwreck Act (43 U.S.C. §§ 2101-2106), state and Federal agencies whose activities may disturb, alter, damage, or destroy State-owned shipwrecks must take into account the effect of the proposed activity on any state-owned shipwreck and afford the state agencies assigned management responsibility for state-owned shipwrecks a reasonable opportunity to comment on the proposed activity.

.07 Clean Air Act (42 U.S.C. § 7401 *et seq.*), Federal Water Pollution Control Act (33 U.S.C. § 1251 *et seq.*) (Clean Water Act), and Executive Order 11738 ("Providing for administration of the Clean Air Act and the Federal Water Pollution Control Act with respect to Federal contracts, grants or loans")

Recipients must comply with the provisions of the Clean Air Act (42 U.S.C. §§ 7401 *et seq.*), Clean Water Act (33 U.S.C. §§ 1251 *et seq.*), and Executive Order 11738. Recipients shall not use a facility that the Environmental Protection Agency (EPA) has placed on EPA's List of Violating Facilities (this list is incorporated into the Excluded Parties List System which is part of SAM) in performing any award that is nonexempt under subpart J of 2 C.F.R. part 1532.

.08 The Flood Disaster Protection Act (42 U.S.C. § 4002 *et seq.*)

Flood insurance, when available, is required for Federally-assisted construction or acquisition in areas having special flood hazards and flood-prone areas. When required, recipients will ensure that flood insurance is secured for their project(s).

.09 Executive Order 11988 ("Floodplain Management"), Executive Order 13690 ("Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholder Input"), and Executive Order 11990 ("Protection of Wetlands")

Recipients must identify proposed actions located in a floodplain and/or wetlands to enable the Council to determine whether there is an alternative to minimize any potential harm. Floodplains are identified through a climate-informed science approach, adding 2-3 feet of elevation to the 100-year floodplain, or using the 500-year floodplain.

.10 Executive Order 13112 (“Invasive Species”)

Federal agencies must identify actions that may affect the status of invasive species and use relevant programs and authorities to: (i) prevent the introduction of invasive species; (ii) detect and respond rapidly to and control populations of such species in a cost-effective and environmentally sound manner; (iii) monitor invasive species populations accurately and reliably; (iv) provide for restoration of native species and habitat conditions in ecosystems that have been invaded; (v) conduct research on invasive species and develop technologies to prevent introduction and provide for environmentally sound control of invasive species; and (vi) promote public education on invasive species and the means to address them. In addition, an agency may not authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species in the United States or elsewhere.

.11 The Coastal Zone Management Act (16 U.S.C. § 1451 *et seq.*)

Federally funded projects must be consistent with a coastal state’s approved management program for the coastal zone.

.12 The Coastal Barriers Resources Act (16 U.S.C. § 3501 *et seq.*)

Only in certain circumstances may Federal funding be provided for actions within a Coastal Barrier System. The Coastal Barriers Resources Act generally prohibits new Federal expenditures, including Federal grants, within specific units of the Coastal Barrier Resources System (CBRS). Although the Act restricts Federal expenditures for coastal barrier development, Section 6(a)(6)(A) contains an exemption for projects relating to the study, management, protection, or enhancement of fish and wildlife resources and habitats, including recreational projects. Section 6(a)(6)(G) also exempts nonstructural projects for shoreline stabilization that are designed to mimic, enhance or restore natural stabilization systems. However, care must be taken when interpreting any exemptions described, as they are limited to projects that are consistent with the purpose of this Act as interpreted by the lead agency, Department of Interior. Applicants should work with the U.S. Fish and Wildlife Service, which reviews proposals to determine whether a project falls within a protected unit and if so, whether an exception applies. Maps of the CBRS are available through the interactive U.S. Fish and Wildlife Service [Coastal Barrier Resources System Mapper](http://www.fws.gov/cbra/Maps/Mapper.html).¹⁶

.13 The Wild and Scenic Rivers Act (16 U.S.C. § 1271 *et seq.*)

This Act applies to awards that may affect existing or proposed components of the National Wild and Scenic Rivers system. Funded projects in the National Wild and Scenic Rivers system must be consistent with Wild and Scenic Rivers Act requirements.

.14 The Safe Drinking Water Act (42 U.S.C. § 300 *et seq.*)

The Sole Source Aquifer program under this statute precludes Federal financial assistance for any project that the EPA determines may contaminate a designated sole source aquifer through a recharge zone so as to create a significant hazard to public health.

¹⁶ U.S. Fish and Wildlife Service Interactive Coastal Barrier Resources System Mapper - <http://www.fws.gov/cbra/Maps/Mapper.html>, verified 8/18/2015.

.15 The Resource Conservation and Recovery Act (42 U.S.C. § 6901 et seq.)

This act regulates the generation, transportation, treatment, and disposal of hazardous wastes, and also provides that recipients of Federal funds that are state agencies or political subdivisions of states give preference in their procurement programs to the purchase of recycled products pursuant to EPA guidelines.

.16 The Comprehensive Environmental Response, Compensation, and Liability Act (Superfund) (42 U.S.C. § 9601 et seq.)

The Comprehensive Environmental Response, Compensation, and Liability Act (Superfund) (42 U.S.C. § 9601 et seq.), as amended by the Community Environmental Response Facilitation Act, provides the President with broad, discretionary response authorities to address actual and threatened releases of hazardous substances, as well as pollutants and contaminants where there is an imminent and substantial danger to public health and the environment. Section 103 of this Act contains specific reporting requirements and responsibilities and section 117 of the Act contains specific provisions designed to ensure meaningful public participation in the response process.

.17 Executive Order 12898 (“Environmental Justice in Minority Populations and Low Income Populations”)

This Order identifies and addresses adverse human health or environmental effects of programs, policies and activities on low income and minority populations. Consistent with EO 12898, recipients may be requested to help identify and address, as appropriate, disproportionate impacts to low income and minority populations which could result from their project.

.18 Rivers and Harbors Act (33 U.S.C. 407)

A permit may be required from the U.S. Army Corps of Engineers if the proposed activity involves any work in, over or under navigable waters of the United States. Recipients must identify any work (including structures) that will occur in, over or under navigable waters of the United States and obtain the appropriate permit, if applicable.

.19 Marine Protection, Research and Sanctuaries Act (Pub. L. 92-532, as amended), National Marine Sanctuaries Act (16 U.S.C. 1431 et seq.), and Executive Order 13089 (“Coral Reef Protection”)

The Marine Protection, Research and Sanctuaries Act prohibits dumping of material into ocean waters beyond the territorial limit without a permit. Recipients must identify any potential ocean dumping of materials, obtain the appropriate permit, if applicable, and notify the Council. Under the National Marine Sanctuaries Act, Federal agencies are required to protect National Marine Sanctuary resources. Recipients must identify actions that are in or may affect a National Marine Sanctuary and notify the Council. EO 13089 requires that any actions authorized or funded by Federal agencies not degrade the condition of coral reef ecosystems. Recipients must identify any action that might affect a coral reef ecosystem and notify the Council.

.20 Executive Order 13653 (“Preparing the United States for the Impacts of Climate Change”)

This EO requires Federal agencies to identify and support smarter, more climate-resilient investments by States, local communities and tribes, including by providing incentives through agency guidance and grants. Recipients must identify and describe any project elements that promote climate resilience.

.21 Farmland Protection Policy Act (7 U.S.C. 4201 et seq.)

This act requires agency programs, to the extent possible, be compatible with state, local and private programs and policies to protect farmland from irreversible conversion to nonagricultural uses. Recipients must identify any irreversible conversion of farmland to nonagricultural uses as a result of their project.

.22 Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.)

During the planning of water resource development projects, agencies are required to give fish and wildlife resources equal consideration with other values. Additionally, the Fish and Wildlife Service and fish and wildlife agencies of States must be consulted whenever waters of any stream or other body of water are “proposed or authorized, permitted or licensed to be impounded, diverted... or otherwise controlled or modified” by any agency under a Federal permit or license.

Q. MISCELLANEOUS REQUIREMENTS

.01 Criminal and Prohibited Activities

- a. The Program Fraud Civil Remedies Act (31 U.S.C. § 3801 *et seq.*), provides for the imposition of civil penalties against persons who make false, fictitious or fraudulent claims to the Federal Government for money (including money representing grants, loans or other benefits).
- b. The False Claims Amendments Act and the False Statements Act (18 U.S.C. §§ 287 and 1001, respectively), provide that whoever makes or presents any false, fictitious or fraudulent statement, representation or claim against the United States shall be subject to imprisonment of not more than five years and shall be subject to a fine in the amount provided by 18 U.S.C. § 287.
- c. The Civil False Claims Act (31 U.S.C. § 3729 *et seq.*), provides that suits can be brought by the government, or a person on behalf of the government, for false claims made under Federal assistance programs.
- d. The Copeland “Anti-Kickback” Act (18 U.S.C. § 874), prohibits a person or organization engaged in a Federally-supported project from enticing an employee working on the project from giving up a part of his compensation under an employment contract. The Copeland “Anti-Kickback” Act also applies to contractors and subcontractors pursuant to 40 U.S.C. § 3145.

.02 Political Activities

The non-Federal entity must comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.

.03 Drug-Free Workplace

The non-Federal entity shall comply with the provisions of the Drug-Free Workplace Act of 1988 (Pub. L. No. 100-690, Title V, Sec. 5153, as amended by Pub. L. No. 105-85, Div. A, Title VIII, Sec. 809, as codified at 41 U.S.C. § 8102) and any Council regulations and policies promulgated pursuant to its authority, which require that the non-Federal entity take steps to provide a drug-free workplace.

.04 Foreign Travel

- a. The non-Federal entity may not use funds from this award for travel outside of the United States unless the Grants Officer provides prior written approval. The non-Federal entity shall comply with the provisions of the Fly America Act (49 U.S.C. § 40118). The implementing regulations of the Fly America Act are found at 41 C.F.R. §§ 301-10.131 through 301-10.143.
- b. The Fly America Act requires that Federal travelers and others performing U.S. Government-financed air travel must use U.S. flag air carriers, to the extent that service by such carrier is available. Foreign air carriers may be used only in specific instances, such as when a U.S. flag air carrier is unavailable, or use of U.S. flag air carrier service will not accomplish the agency's mission.
- c. One exception to the requirement to fly U.S. flag carriers is transportation provided under a bilateral or multilateral air transport agreement, to which the United States Government and the government of a foreign country are parties, and which the Department of Transportation has determined meets the requirements of the Fly America Act pursuant to 49 U.S.C. § 40118(b). The United States Government has entered into bilateral/multilateral "Open Skies Agreements" (U.S. Government Procured Transportation) that allow Federally-funded transportation services for travel and cargo movements to use foreign air carriers under certain circumstances. There are multiple "Open Skies Agreements" currently in effect. For more information about the current bilateral and multilateral agreements, visit the [GSA website](#).¹⁷ Information on the Open Skies agreements (U.S. Government Procured Transportation) and other specific country agreements may be accessed via the [Department of State's website](#).¹⁸
- d. If a foreign air carrier is anticipated to be used for any portion of travel under a Council financial assistance award the non-Federal entity must obtain prior written approval from the Grants Officer. When requesting such approval, the non-Federal entity must provide a justification in accordance with guidance provided by 41 C.F.R. § 301-10.142, which requires the non-Federal entity to provide the Grants Officer with the following: name; dates of travel; origin and destination of travel; detailed itinerary of travel; name of the air carrier and flight number for each leg of the trip; and a statement explaining why the non-Federal entity meets one of the exceptions to the regulations. If the use of a foreign air carrier is pursuant to a bilateral agreement, the non-Federal entity must provide the Grants Officer with a copy of the agreement or a citation to the official agreement available on the GSA website. The Grants Officer shall make the final determination and notify the non-Federal entity in writing. Failure to adhere to the provisions of the Fly America Act will result in the non-Federal entity not being reimbursed for any transportation costs for which the non-Federal entity improperly used a foreign air carrier.

¹⁷ GSA Fly America Act website - <http://www.gsa.gov/portal/content/103191>, verified 8/18/2015.

¹⁸ Department of State Open Skies Agreements website - <http://www.state.gov/e/eb/tra/ata/index.htm>, verified 8/18/2015.

.05 Increasing Seat Belt Use in the United States

Pursuant to EO 13043, recipients should encourage employees and contractors to enforce on-the-job seat belt policies and programs when operating company-owned, rented or personally owned vehicles.

.06 Research Involving Human Subjects

- a. All proposed research involving human subjects must be conducted in accordance with 15 C.F.R. part 27 “Protection of Human Subjects.” No research involving human subjects is permitted under this award unless expressly authorized by special award condition, or otherwise in writing by the Grants Officer.
- b. Federal policy defines a human subject as a living individual about whom an investigator conducting research obtains (1) data through intervention or interaction with the individual, or (2) identifiable private information. Research means a systematic investigation, including research development, testing and evaluation, designed to develop or contribute to generalizable knowledge.
- c. Department of Commerce regulations at 15 C.F.R. part 27, applying to all Federal departments and agencies, require that recipients maintain appropriate policies and procedures for the protection of human subjects. In the event it becomes evident that human subjects may be involved in this project, the non-Federal entity shall submit appropriate documentation to the Federal Program Officer for approval by the appropriate Council officials. This documentation may include:
 1. Documentation establishing approval of the project by an institutional review board (IRB) approved for Federal-wide use under Department of Health and Human Services guidelines (*see also* 15 C.F.R. § 27.103);
 2. Documentation to support an exemption for the project under 15 C.F.R. § 27.101(b);
 3. Documentation to support denial for an exemption or IRB review under 15 C.F.R. § 27.118;
 4. Documentation of IRB approval of any modification to a prior approved protocol or to an informed consent form.
- d. No work involving human subjects may be undertaken or conducted, or costs incurred and/or charged for human subjects research, until the appropriate documentation is approved in writing by the Grants Officer. Notwithstanding this prohibition, work may be initiated or costs incurred and/or charged to the project for protocol or instrument development related to human subjects research.

.07 Federal Employee Expenses

Federal agencies are generally barred from accepting funds from a non-Federal entity to pay transportation, travel or other expenses for any Federal employee. Use of award funds (Federal or non-Federal) or the non-Federal entity’s provision of in-kind goods or services, for the purposes of transportation, travel or any other expenses for any Federal employee may raise appropriation augmentation issues. In addition, Council policy prohibits the acceptance of gifts, including travel payments for Federal employees, from recipients or applicants, regardless of the source.

.08 Minority Serving Institutions Initiative

Pursuant to EOs 13555 (“White House Initiative on Educational Excellence for Hispanics”), 13270 (“Tribal Colleges and Universities”), and 13532 (“Promoting Excellence, Innovation, and Sustainability at Historically Black Colleges and Universities”), the Council is strongly committed to broadening the participation of minority serving institutions (MSIs) in its financial assistance programs. The Council’s goals include achieving full participation of MSIs in order to advance the development of human potential, strengthen the Nation’s capacity to provide high-quality education, and increase opportunities for MSIs to participate in and benefit from Federal financial assistance programs. The Council encourages all recipients to include meaningful participation of MSIs. Institutions eligible to be considered MSIs are listed on the Department of Education website.

.09 Research Misconduct

The Council adopts, and applies to financial assistance awards for research, the Federal Policy on Research Misconduct (Federal Policy) issued by the Executive Office of the President’s Office of Science and Technology Policy on December 6, 2000 (65 FR 76260). As provided for in the Federal Policy, research misconduct refers to the fabrication, falsification or plagiarism in proposing, performing or reviewing research, or in reporting research results. Research misconduct does not include honest errors or differences of opinion. Non-Federal entities that conduct extramural research funded by the Council must foster an atmosphere conducive to the responsible conduct of sponsored research by safeguarding against and resolving allegations of research misconduct. Non-Federal entities also have the primary responsibility to prevent, detect and investigate allegations of research misconduct and, for this purpose, may rely on their internal policies and procedures, as appropriate, to do so. Federal award funds expended on an activity that is determined to be invalid or unreliable because of research misconduct may result in appropriate enforcement action under the award, up to and including award termination and/or suspension or debarment. The Council requires that any allegation that contains sufficient information to proceed with an inquiry be submitted to the Grants Officer, who will also notify the Treasury OIG of such allegation. Once the non-Federal entity has investigated the allegation, it shall submit its findings to the Grants Officer. The Council may accept the non-Federal entity’s findings or proceed with its own investigation. The Grants Officer will inform the non-Federal entity of the Council’s final determination.

.10 Publications, Videos, Signage and Acknowledgment of Sponsorship

- a. Publication of results or findings in appropriate professional journals and production of video or other media is encouraged as an important method of recording, reporting and otherwise disseminating information and expanding public access to Federally-funded projects (*e.g.*, scientific research).
- b. Recipients are required to submit a copy of any publication materials, including but not limited to print, recorded or Internet materials, to the Council.
- c. When releasing information related to a funded project, recipients must include a statement that the project or effort undertaken was or is sponsored by the Council.
- d. Any signage produced with funds from the award or informing the public about the activities funded in whole or in part by the award, must first be approved in writing by the Grants Officer.
- e. Recipients are responsible for assuring that every publication of material based on, developed under, or otherwise produced under a Council financial assistance award, except scientific articles or papers

appearing in scientific, technical or professional journals, contains the following disclaimer or other disclaimer approved in writing by the Grants Officer:

This [report/video/etc.] was prepared by [non-Federal entity name] using Federal funds under award [number] from the RESTORE Council. The statements, findings, conclusions, and recommendations are those of the author(s) and do not necessarily reflect the views of the RESTORE Council.

.11 Care and Use of Live Vertebrate Animals

Recipients must comply with the Laboratory Animal Welfare Act of 1966, as amended, (Pub. L. No. 89-544, 7 U.S.C. § 2131 *et seq.*) (animal acquisition, transport, care, handling, and use in projects), and implementing regulations, 9 C.F.R. Parts 1, 2, and 3; the Endangered Species Act (16 U.S.C. § 1531 *et seq.*); Marine Mammal Protection Act (16 U.S.C. § 1361 *et seq.*) (taking possession, transport, purchase, sale, export or import of wildlife and plants); the Nonindigenous Aquatic Nuisance Prevention and Control Act (16 U.S.C. § 4701 *et seq.*) (ensure preventive measures are taken or that probable harm of using species is minimal if there is an escape or release); and all other applicable statutes pertaining to the care, handling and treatment of warm-blooded animals held for research, teaching or other activities supported by Federal financial assistance. No research involving vertebrate animals is permitted under any Council financial assistance award without the prior written approval of the Grants Officer.

.12 Homeland Security Presidential Directive 12

If the performance of a grant award requires non-Federal entity personnel to have routine access to Federally-controlled facilities and/or Federally-controlled information systems (for purpose of this term “routine access” is defined as more than 180 days), such personnel must undergo the personal identity verification credential process. In the case of foreign nationals, the Council will conduct a check with U.S. Citizenship and Immigration Services’ (USCIS) verification Division, a component of the Department of Homeland Security (DHS) to ensure that the individual is in a lawful immigration status and that he or she is eligible for employment within the United States. Any items or services delivered under a financial assistance award shall comply with the Council personal identity verification procedures that implement Homeland Security Presidential Directive 12, “Policy for a Common Identification Standard for Federal Employees and Contractors,” FIPS PUB 201, and OMB Memorandum M-05-24. The non-Federal entity shall ensure that its subrecipients and contractors (at all tiers) performing work under this award comply with the requirements contained in this term. The Grants Officer may delay final payment under an award if the subrecipient or contractor fails to comply with the requirements provided below. The non-Federal entity shall insert the following term in all subawards and contracts when the subaward non-Federal entity or contractor is required to have routine physical access to a Federally-controlled facility or routine access to a Federally-controlled information system:

- a. *The subrecipient or contractor shall comply with the Council personal identity verification procedures identified in the subaward or contract that implement Homeland Security Presidential Directive 12 (HSPD-12), Office of Management and Budget (OMB) Guidance M-05-24, as amended, and Federal Information Processing Standards Publication (FIPS PUB) Number 201, as amended, for all employees under this subaward or contract who require routine physical access to a Federally-controlled facility or routine access to a Federally-controlled information system.*
- b. *The subrecipient or contractor shall account for all forms of Government-provided identification issued to the subrecipient or contractor employees in connection with performance under this subaward or contract. The subrecipient or contractor shall return such identification to the issuing agency at the earliest of any of the following, unless otherwise determined by the Council: (1) When*

no longer needed for subaward or contract performance; (2) Upon completion of the subrecipient or contractor employee's employment; or (3) Upon subaward or contract completion or termination.

.13 Compliance with Department of Commerce Bureau of Industry and Security Export Administration Regulations

- a. This clause applies to the extent that this financial assistance award involves access to export-controlled items.
- b. In performing this financial assistance award, the non-Federal entity may gain access to items subject to export control (export-controlled items) under the Export Administration Regulations (EAR). The non-Federal entity is responsible for compliance with all applicable laws and regulations regarding export-controlled items, including the EAR's deemed exports and reexports provisions. The non-Federal entity shall establish and maintain effective export compliance procedures at Council and non-Council facilities throughout performance of the financial assistance award. At a minimum, these export compliance procedures must include adequate controls of physical, verbal, visual, and electronic access to export-controlled items, including by foreign nationals.
- c. Definitions
 1. Export-controlled items. Items (commodities, software, or technology), that are subject to the EAR (15 C.F.R. §§ 730-774), implemented by the Department of Commerce's Bureau of Industry and Security. These are generally known as "dual-use" items, items with both a military and commercial application.
 2. Deemed Export/Reexport. The EAR defines a deemed export as a release of export-controlled items (specifically, technology or source code) to a foreign national in the U.S. Such release is "deemed" to be an export to the home country of the foreign national. 15 C.F.R. § 734.2(b)(2)(ii). A release may take the form of visual inspection, oral exchange of information, or the application abroad of knowledge or technical experience acquired in the U.S. If such a release occurs abroad, it is considered a deemed reexport to the foreign national's home country. Licenses may be required for deemed exports or reexports.
- d. The non-Federal entity shall control access to all export-controlled items that it possesses or that comes into its possession in performance of this financial assistance award, to ensure that access to, or release of, such items are restricted, or licensed, as required by applicable Federal laws, EOs, and/or regulations, including the EAR.
- e. As applicable, non-Federal entity personnel and associates at Council sites shall be informed of any procedures to identify and protect export-controlled items.
- f. To the extent the non-Federal entity wishes to provide foreign nationals with access to export-controlled items, the non-Federal entity shall be responsible for obtaining any necessary licenses, including licenses required under the EAR for deemed exports or deemed reexports.
- g. Nothing in the terms of this financial assistance award is intended to change, supersede, or waive the requirements of applicable Federal laws, EOs or regulations.
- h. Compliance with the foregoing will not satisfy any legal obligations the non-Federal entity may have regarding items that may be subject to export controls administered by other agencies such as the Department of State, which has jurisdiction over exports of munitions items subject to the

International Traffic in Arms Regulations (ITAR) (22 C.F.R. §§ 120-130), including releases of such items to foreign nationals.

- i. The non-Federal entity shall include this Subsection .13, including this Subparagraph i, in all lower tier transactions (subawards, contracts, and subcontracts) under this financial assistance award that may involve access to export-controlled items.

.14 The Trafficking Victims Protection Act of 2000 (22 U.S.C. 7104(g)), as amended, and the implementing regulations at 2 C.F.R. part 175

The Trafficking Victims Protection Act of 2000 authorizes termination of financial assistance provided to a private entity, without penalty to the Federal Government, if the non-Federal entity engages in certain activities related to trafficking in persons. The Council incorporates the following award term required by [2 C.F.R. § 175.15\(b\)](#).¹⁹

Award Term from 2 C.F.R. § 175.15(b):

I. Trafficking in persons.

- a. Provisions applicable to a non-Federal entity that is a private entity.
 1. You as the non-Federal entity, your employees, subrecipients under this award, and subrecipients' employees may not—
 - i. Engage in severe forms of trafficking in persons during the period of time that the award is in effect;
 - ii. Procure a commercial sex act during the period of time that the award is in effect; or
 - iii. Use forced labor in the performance of the award or subawards under the award.
 2. We as the Federal awarding agency may unilaterally terminate this award, without penalty, if you or a subrecipient that is a private entity—
 - i. Is determined to have violated a prohibition in paragraph a.1 of this award term; or
 - ii. Has an employee who is determined by the agency official authorized to terminate the award to have violated a prohibition in paragraph a.1 of this award term through conduct that is either— (A) Associated with performance under this award; or (B) Imputed to you or the subrecipient using the standards and due process for imputing the conduct of an individual to an organization that are provided in 2 C.F.R. Part 180, “OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement),” as implemented by our agency at 2 C.F.R. Part 1326, “Nonprocurement Debarment and Suspension.”
- b. Provision applicable to a non-Federal entity other than a private entity. We as the Federal awarding agency may unilaterally terminate this award, without penalty, if a subrecipient that is a private entity—
 1. Is determined to have violated an applicable prohibition in paragraph a.1 of this award term; or
 2. Has an employee who is determined by the agency official authorized to terminate the award to have violated an applicable prohibition in paragraph a.1 of this award term through conduct that is either—
 - i. Associated with performance under this award; or

¹⁹ See 2 C.F.R. § 175.15(b) - <http://www.gpo.gov/fdsys/pkg/CFR-2012-title2-vol1/pdf/CFR-2012-title2-vol1-sec175-15.pdf>, verified 8/18/2015.

- ii. Imputed to the subrecipient using the standards and due process for imputing the conduct of an individual to an organization that are provided in 2 C.F.R. Part 180, “OMB Guidelines to Agencies on Governmentwide Debarment and Suspension (Nonprocurement),” as implemented by our agency at 2 C.F.R. Part 1326, “Nonprocurement Debarment and Suspension.”
- c. Provisions applicable to any non-Federal entity.
 - 1. You must inform us immediately of any information you receive from any source alleging a violation of a prohibition in paragraph a.1 of this award term.
 - 2. Our right to terminate unilaterally that is described in paragraph a.2 or b of this section:
 - i. Implements section 106(g) of the Trafficking Victims Protection Act of 2000 (TVPA), as amended (22 U.S.C. 7104(g)), and
 - ii. Is in addition to all other remedies for noncompliance that are available to us under this award.
 - 3. You must include the requirements of paragraph a.1 of this award term in any subaward you make to a private entity.
- d. Definitions. For purposes of this award term:
 - 1. Employee means either:
 - i. An individual employed by you or a subrecipient who is engaged in the performance of the project or program under this award; or
 - ii. Another person engaged in the performance of the project or program under this award and not compensated by you including, but not limited to, a volunteer or individual whose services are contributed by a third party as an in-kind contribution toward cost sharing or matching requirements.
 - 2. Forced labor means: labor obtained by any of the following methods: the recruitment, harboring, transportation, provision, or obtaining of a person for labor or services, through the use of force, fraud, or coercion for the purpose of subsection to involuntary servitude, peonage, debt bondage, or slavery.
 - 3. Private entity:
 - i. Means any entity other than a State, local government, Indian tribe, or foreign public entity, as those terms are defined in 2 C.F.R. 175.25;
 - ii. Includes: (A) A nonprofit organization, including any nonprofit institution of higher education, hospital, or tribal organization other than one included in the definition of Indian tribe at 2 C.F.R. 175.25(b); and (B) A for-profit organization.
 - 4. “Severe form of trafficking in persons,” “commercial sex act,” and “coercion” have the meanings given at section 103 of the TVPA, as amended (22 U.S.C. 7102).

.15 The Federal Funding Accountability and Transparency Act of 2006 (“Transparency Act” or FFATA)—Public Law 109-282, as amended by section 6202(a) of Public Law 110-252 (31 U.S.C. 6101)

- a. Searchable Website Requirements. The Federal Funding Accountability and Transparency Act of 2006 (FFATA) requires information on Federal awards (Federal financial assistance and expenditures) be made available to the public via a single, searchable website. This information is available at the USA Spending website.²⁰ Recipients and subrecipients must include the following required data elements in their application:

²⁰ USA Spending.gov website - www.USASpending.gov, verified 8/18/2015.

- Name of entity receiving award;
- Award amount;
- Transaction type, funding agency, Catalog of Federal Domestic Assistance Number, and descriptive award title;
- Location of entity, primary location of performance (City/State/Congressional District/Country); and
- Unique identifier of entity.

- b. Reporting Subawards and Executive Compensation. Prime grant recipients awarded a new Federal grant greater than or equal to \$25,000 on or after October 1, 2010, other than those funded by the Recovery Act, are subject to FFATA subaward reporting requirements as outlined in the OMB guidance issued August 27, 2010. The prime non-Federal entity is required to file a FFATA subaward report by the end of the month following the month in which the prime non-Federal entity awards any sub-grant greater than or equal to \$25,000. *See* Pub. L. No. 109-282, as amended by section 6202(a) of Pub. L. No. 110-252 (*see* 31 U.S.C. 6101 note). The reporting requirements are located in Appendix A of [2 C.F.R. Part 170](#).²¹

Award Term from Appendix A of 2 C.F.R. Part 170:

I. Reporting Subawards and Executive Compensation.

a. Reporting of first-tier subawards.

1. Applicability. Unless you are exempt as provided in paragraph d. of this award term, you must report each action that obligates \$25,000 or more in Federal funds that does not include Recovery funds (as defined in section 1512(a)(2) of the American Recovery and Reinvestment Act of 2009, Pub. L. 111-5) for a subaward to an entity (*see* definitions in paragraph e. of this award term).
2. Where and when to report.
 - i. You must report each obligating action described in paragraph a.1 of this award term to the FFATA Subaward Reporting System ([FSRS](#)).²²
 - ii. For subaward information, report no later than the end of the month following the month in which the obligation was made. (For example, if the obligation was made on November 7, 2010, the obligation must be reported by no later than December 31, 2010.)
3. What to report. You must report the information about each obligating action that the submission instructions posted at the [FSRS](#) website specify.

b. Reporting Total Compensation of Non-Federal Entity Executives.

1. Applicability and what to report. You must report total compensation for each of your five most highly compensated executives for the preceding completed fiscal year, if—
 - i. the total Federal funding authorized to date under this award is \$25,000 or more;
 - ii. in the preceding fiscal year, you received—
 - (A) 80 percent or more of your annual gross revenues from Federal procurement contracts (and subcontracts) and Federal financial assistance subject to the Transparency Act, as defined at 2 C.F.R. 170.320 (and subawards); and
 - (B) \$25,000,000 or more in annual gross revenues from Federal procurement contracts (and subcontracts) and Federal financial assistance subject to the Transparency Act, as defined at 2 C.F.R. 170.320 (and subawards); and

²¹ 2 C.F.R. § 170.320 on GPO website - <http://www.gpo.gov/fdsys/pkg/CFR-2011-title2-vol1/pdf/CFR-2011-title2-vol1-part170-appA.pdf>, verified 8/18/2015.

²² Federal Funding Accountability and Transparency Act Subaward Reporting System - <http://www.fsrs.gov>, verified 8/18/2015.

- iii. The public does not have access to information about the compensation of the executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. (To determine if the public has access to the compensation information, *see* the [U.S. Security and Exchange Commission](#) total compensation filings.²³)
2. Where and when to report. You must report executive total compensation described in paragraph b.1 of this award term:
- i. As part of your registration profile in the System for Award Management ([SAM](#)),²⁴ and
 - ii. By the end of the month following the month in which this award is made, and annually thereafter.
- c. Reporting of Total Compensation of Subrecipient Executives.
1. Applicability and what to report. Unless you are exempt as provided in paragraph d. of this award term, for each first-tier subrecipient under this award, you shall report the names and total compensation of each of the subrecipient's five most highly compensated executives for the subrecipient's preceding completed fiscal year:—
 - i. In the subrecipient's preceding fiscal year, the subrecipient received—
 - (A) 80 percent or more of its annual gross revenues from Federal procurement contracts (and subcontracts) and Federal financial assistance subject to the Transparency Act, as defined at 2 C.F.R. 110.320 (and subawards); and
 - (B) \$25,000,000 or more in annual gross revenues from Federal procurement contracts (and subcontracts), and Federal financial assistance subject to the Transparency Act (and subawards); and
 - ii. The public does not have access to information about the compensation of the executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. (To determine if the public has access to the compensation information, *see* the U.S. Security and Exchange Commission total compensation filings at <http://www.sec.gov/answers/execomp.htm>.)
 2. Where and when to report. You must report subrecipient executive total compensation described in paragraph c.1. of this award term:
 - i. To the non-Federal entity.
 - ii. By the end of the month following the month during which you make the subaward. For example, if a subaward is obligated on any date during the month of October of a given year (i.e., between October 1 and 31), you must report any required compensation information of the subrecipient by November 30 of that year.
- d. Exemptions. If, in the previous tax year, you had gross income, from all sources, under \$300,000, you are exempt from the requirements to report: i. Subawards, and ii. The total compensation of the five most highly compensated executives of any subrecipient.
- e. Definitions. For purposes of this award term:
1. Entity means all of the following, as defined in 2 C.F.R. part 25:
 - i. A Governmental organization, which is a State, local government, or Indian tribe;
 - ii. A foreign public entity;
 - iii. A domestic or foreign nonprofit organization;
 - iv. A domestic or foreign for-profit organization;

²³ U.S. Security and Exchange Commission Executive Compensation “Fast Facts” - <http://www.sec.gov/answers/execomp.htm>, verified on 8/18/2015.

²⁴ System for Award Management (SAM) - <https://www.sam.gov>, verified on 8/18/2015.

- v. A Federal agency, but only as a subrecipient under an award or subaward to a non-Federal entity.
2. Executive means officers, managing partners, or any other employees in management positions.
 3. Subaward:
 - i. This term means a legal instrument to provide support for the performance of any portion of the substantive project or program for which you received this award and that you as the non-Federal entity award to an eligible subrecipient.
 - ii. The term does not include your procurement of property and services needed to carry out the project or program (for further explanation, *see* 2 C.F.R. § 200.330).
 - iii. A subaward may be provided through any legal agreement, including an agreement that you or a subrecipient considers a contract.
 4. Subrecipient means an entity that:
 - i. Receives a subaward from you (the non-Federal entity) under this award; and
 - ii. Is accountable to you for the use of the Federal funds provided by the subaward.
 5. Total compensation means the cash and noncash dollar value earned by the executive during the non-Federal entity's or subrecipient's preceding fiscal year and includes the following (for more information *see* 17 C.F.R. 229.402(c)(2)).
 - i. Salary and bonus.
 - ii. Awards of stock, stock options, and stock appreciation rights. Use the dollar amount recognized for financial statement reporting purposes with respect to the fiscal year in accordance with the Statement of Financial Accounting Standards No. 123 (Revised 2004) (FAS 123R), Shared Based Payments.
 - iii. Earnings for services under non-equity incentive plans. This does not include group life, health, hospitalization or medical reimbursement plans that do not discriminate in favor of executives, and are available generally to all salaried employees.
 - iv. Change in pension value. This is the change in present value of defined benefit and actuarial pension plans.
 - v. Above-market earnings on deferred compensation which is not tax-qualified.
 - vi. Other compensation if the aggregate value of all such other compensation (e.g. severance, termination payments, value of life insurance paid on behalf of the employee, perquisites or property) for the executive exceeds \$10,000.
- c. System for Award Management (SAM) and Universal Identifier requirements.
1. Requirement for SAM. Unless you are exempted from this requirement under 2 C.F.R. § 25.110, you as the recipient must maintain the currency of your information in the SAM until you submit the final financial report required under this award or receive the final payment, whichever is later. This requires that you review and update the information at least annually after the initial registration, and more frequently if required by changes in your information or another award term.
 2. Requirement for unique entity identifier. If you are authorized to make subawards under this award, you:
 - i. Must notify potential subrecipients that no entity (see definition in paragraph C of this award term) may receive a subaward from you unless the entity has provided its unique entity identifier to you.
 - ii. May not make a subaward to an entity unless the entity has provided its unique entity identifier to you.

3. Definitions for purposes of this award term:

- i. System for Award Management (SAM) means the Federal repository into which an entity must provide information required for the conduct of business as a recipient. Additional information about registration procedures may be found at the System for Award Management [Internet site](#).²⁵
- ii. Unique entity identifier means the identifier required for SAM registration to uniquely identify business entities.
- iii. Entity, as it is used in this award term, means all of the following, as defined at 2 C.F.R. part 25, subpart C:
 - (A) A Governmental organization, which is a State, local government, or Indian Tribe;
 - (B) A foreign public entity;
 - (C) A domestic or foreign nonprofit organization;
 - (D) A domestic or foreign for-profit organization; and
 - (E) A Federal agency, but only as a subrecipient under an award or subaward to a non-Federal entity.
- iv. Subaward:
 - (A) This term means a legal instrument to provide support for the performance of any portion of the substantive project or program for which you received this award and that you as the non-Federal entity award to an eligible subrecipient.
 - (B) The term does not include your procurement of property and services needed to carry out the project or program (for further explanation, *see* 2 C.F.R. § 200.330).
 - (C) A subaward may be provided through any legal agreement, including an agreement that you consider a contract.
- v. Subrecipient means an entity that:
 - (A) Receives a subaward from you under this award; and
 - (B) Is accountable to you for the use of the Federal funds provided by the subaward.

.16 Federal Financial Assistance Planning During a Funding Hiatus or Government Shutdown

This term sets forth initial guidance that will be implemented for Federal assistance awards in the event of a lapse in appropriations, or a government shutdown. The Grants Officer may issue further guidance prior to an anticipated shutdown.

- a. Unless there is an actual rescission of funds for specific grant obligations, recipients of Federal financial assistance awards for which funds have been obligated generally will be able to continue to perform and incur allowable expenses under the award during a funding hiatus. Recipients are advised that ongoing activities by Federal employees involved in grant administration (including payment processing) or similar operational and administrative work cannot continue when there is a funding lapse. Therefore, there may be delays, including payment processing delays, in the event of a shutdown.
- b. All award actions will be delayed during a government shutdown; if it appears that a non-Federal entity's performance under a grant or cooperative agreement will require agency involvement, direction or clearance during the period of a possible government shutdown, the Program Officer or

²⁵ System for Award Management (SAM) - <https://www.sam.gov>, verified on 8/18/2015.

Grants Officer, as appropriate, may attempt to provide such involvement, direction, or clearance prior to the shutdown or advise recipients that such involvement, direction, or clearance will not be forthcoming during the shutdown. Accordingly, recipients whose ability to withdraw funds is subject to prior agency approval, which in general are recipients that have been designated high risk, recipients of construction awards, or are otherwise limited to reimbursements or subject to agency review, will be able draw funds down from the relevant Automatic Standard Application for Payment (ASAP) account only if agency approval is given and coded into ASAP prior to any government shutdown or closure. This limitation may not be lifted during a government shutdown. Recipients should plan to work with the Grants Officer to request prior approvals in advance of a shutdown wherever possible. Recipients whose authority to draw down award funds is restricted may decide to suspend work until the government reopens.

- c. The ASAP system may remain operational during a government shutdown. As applicable, recipients that do not require Council approval to draw down advance funds from their ASAP accounts may be able to do so during a shutdown. The 30-day limitation on the drawdown of advance funds will apply notwithstanding a government shutdown and advanced funds held for more than 30 days shall be returned with interest.

R. CERTIFICATIONS

At a minimum, the non-Federal entity must comply with the certifications and requirements in 31 C.F.R. § 34.802, assurances (Forms SF-424B and SF-424D, or equivalent, as applicable), and any required Council-specific certifications. Other certifications may be required by 2 C.F.R. part 200. Certifications must be signed by an authorized senior official of the entity receiving grant funds who can legally bind the organization or entity, and who has oversight for the administration and use of the funds in question.

NOT FOR BIDDING

NOT FOR BIDDING

SECTION 01 0300 – SPECIAL PROJECT PROVISIONS

PART 1 - GENERAL

1.1 GENERAL:

- A. The Contractor shall obtain all necessary licenses and pay all fees as required by the City of Orange Beach, City of Foley, and Baldwin County. The Contractor will also be required to acquire a Land Disturbance Permit for the City of Foley, and pay all associated fees.
- B. In the event that bids exceed the funds available, the Owner reserves the right to exercise all or any combination of deleting sections or parts thereof to bring the construction cost within the funds available.
- C. All work shall be done in accordance with the City of Orange Beach, City of Foley and Baldwin County Rules and Regulations, the latest ADEM and EPA guidelines, current OSHA regulations, and the latest ALDOT standard specifications and guidelines (when working within the ALDOT ROW).
- D. The work covered by this contract consists of furnishing all materials, labor, equipment, tools, supplies and appurtenances necessary for the construction and testing of a sanitary sewer force main and related appurtenances as shown on the plans, and as directed by the Engineer and Owner. All equipment, materials and methods of construction shall be subject to the approval of the Engineer. The Contractor shall comply with OSHA regulations on confined space entry, as published CFR on April 14, 1993.
- E. All Special Provisions as detailed herein are intended to amend and/or clarify the other Specifications as noted.
- F. All excavation shall be bid on an unclassified basis. No extra payment will be made for required hand excavation to minimize the destruction of landscaping and vegetation that must remain or be replaced. No extra payment for removal of rock and other hard material will be made, and all costs for this type of work must be included in the amounts bid in the Proposal. No extra payment will be made for muck excavation or the removal of any wet, unstable, or unsuitable soil. Should any unsuitable soil be encountered, the Contractor is responsible for procuring suitable material for pipe trench backfill in those areas and all costs for this work must be included in the amounts bid in the Proposal. The Contractor is required to inspect the area to his satisfaction prior to turning in a Bid Proposal.

1.2 GENERAL CONTRACTOR REQUIREMENTS:

- A. All Bidders shall be prepared to submit a satisfactory qualification and experience record, as outlined in this specification, at the request of the Owner.
- B. The Bidder will be allowed to subcontract the jack and bores and horizontal directional bores.
- C. The Contractor shall have an adequate number of experienced personnel and available equipment to place on the project to successfully perform the work within the completion period.

- D. The Bidder shall have successfully completed construction of at least three (3) comparable projects similar in scope and size over the last ten (10) years. Comparable projects should also include projects similar in nature.
- E. Subcontractors shall have no less than 5-years verifiable experience in their trade and no less than 5-years verifiable experience in their business enterprise contracting for work under this project. The type of work subcontracted for this project shall be the principal business of the Subcontractor.
- F. Superintendents and foremen, or other individual in the lead or supervisory position for any portion of the Work under this Contract shall have no less than 7-years verifiable experience in performing the type of work they are responsible for.
1. The Contractor shall submit resumes of work and project experience for their Superintendent and foremen, as soon as possible and at least within five calendar days of receipt of the Contract to be executed for the Work, for review and acceptance by the Owner and Engineer.
- G. The Owner anticipates and desires to award the project shortly after the bid opening. Therefore, it is imperative that the Bidder be prepared to submit all required qualification information to the Engineer soon after the bid opening. The Bidder may submit this information with their bid.
- H. Applicants may not be deemed qualified if:
1. The Applicant fails to submit an adequate Qualification Statement, including failing to provide all required documentation, when requested by the Engineer;
 2. The Applicant fails to meet the Technical and Corporate Experience Requirements;
 3. Reasonable grounds exist that Applicant is involved in collusion among other applicants.
 4. The Applicant, or any of its principals, is currently disbarred from bidding on public entity work in any State.
- I. Final determination of Applicant's qualification status rests solely with the Owner.
- J. QUALIFICATION STATEMENT: Bidders shall be prepared to submit the following information with the bid in order for the Owner to evaluate the Bidders' qualifications during the evaluation of the bid:
1. Firm name, address, number, contact.
 2. Legal form of business (Corp, etc.) and date started.
 3. Name of parent company, sister company, etc.
 4. List name and residence (City and State) of all officers, owners, partners and principals. Identify relationship of each to the firm and if active in the firm.
 5. Current State of Alabama Contractor's License – License Number, Bid Limit, Classification.
 6. Provide a statement that Applicant has not defaulted on a project nor failed to complete a project within the past ten years. If this is not the case, explain and provide project contact information.
 7. Provide a statement that Applicant has not filed for bankruptcy or been judged bankrupt at any time over the past nine years. If this is not the case, explain. Provide a document signed and notarized by a Company officer.

8. Provide a statement that Applicant has not been involved in liquidated damages in the past five years. If this is not the case, explain and provide contact information.
9. Provide a list of all projects under contract over the last five years, with a construction contract amount in excess of \$500,000.
10. Provide a statement that the Applicant has never abandoned a project, even temporarily, during a dispute. If this is not the case, please explain and provide contact information.
11. Provide a statement whether Applicant has or has not been involved in litigation as a plaintiff against an Owner, Design Firm or Construction Contract Administration Firm, or served the Owner with a claim for additional compensation prepared by an attorney or a claims consultant, excluding routine change order requests, in the past five years. If Applicant has, explain and provide contact information. List any lawsuits or administrative actions to which the Applicant is currently a party or has been a party (either as a plaintiff or defendant) during the past ten years. For each suit, list all parties and indicate whether any party was a bonding company, insurance company, an Owner or other. Identify the project giving rise to the suit or administrative action, explain the basis of the claim, and whether a settlement was reached or a judgment entered into for or against the Applicant or the Applicant's bonding company or insurance company.
12. Provide a statement that the Applicant, as well as all of its affiliated companies, is not involved in any dispute, formal claim, or litigation with the Owner, nor any authority or organization with which the Owner has a vested interest. If this is not the case, please explain.
13. List all other projects currently under contract in the United States, the current contract amounts and scheduled completion dates.
14. State percentage of contract amount that bidder will perform with its own forces.
15. List possible subcontractors that may be utilized on the project and the work each subcontractor will perform.
16. In reference to the Similar Projects in Paragraph 1.2.D, provide the following complete description of each project, with Owner, Engineer and Contractor's project manager/superintendent information; the date completed; bid amount and final contract amount, with change order amounts and explanation; contract completion period versus actual completion time and explanation; any claims, disputes or litigation by or against the Contractor.
17. List all sanitary force main projects completed within the past two years with a brief project description and Owner contact information.
18. List all current sanitary sewer force main projects (if any), and the Owner contact information for each.
19. Provide a list of project staff including superintendents or foreman and provide a statement of the number of complete crews assigned to the Project.
20. Provide the following information regarding completion of past work:
 - a. Within the last five years, has your firm failed to complete any work awarded to it? (If Yes, attach a written explanation.)
 - b. Within the last five years, has applicant been involved in liquidated damages or has a claim prepared by an attorney or claims consultants, excluding routine change orders? (If Yes, attach a written explanation.)

- c. Within the last five years, has applicant been involved in litigation against Owner or Engineering firms? (If Yes, attach a written explanation.)
- d. Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers or Owners? (If Yes, attach a written explanation.)

1.3 TIME FOR COMPLETION OF WORK:

- A. The Contractor may proceed to award the sub-contracts, assemble materials, etc., at any time after award of Contract and Notice to Proceed with Work is given. For purposes of liquidated damages, the Contractor's official time for construction to start on work shall be the date of Notice to Proceed with Work, and completion of same shall be within the number of consecutive calendar days indicated in the Contract Documents.
- B. Acceptance of the completed Work of this Contract will be at a single date after all work is completed, and not in Phases.
- C. Nothing in the Contract Documents shall permit or be construed to permit payment to the Contractor for any extended overhead or profit due to completion of the project extending beyond the Contractual completion date. In no event shall the Owner or Engineer be liable to the Contractor for damage due to any delay to any portion of the work of this Contract.
- D. Delays due to inclement weather will be determined and documented in accordance with Paragraph 1.6 of this Section.

1.4 CONTRACTOR'S USE AND LIMITATIONS OF THE SITE:

- A. All work shown will be performed within the areas outlined on the plans. If temporary construction easements are required by the Contractor, he shall acquire the necessary easements at no additional cost to the Owner. All areas disturbed during construction shall be restored in accordance with the contract document. All Bidders are hereby advised that ALDOT standards must be adhered to during any construction within ALDOT right-of-way.
- B. The Contractor shall limit the number of vehicles on the job site by shuttling work crews. No excessive construction equipment will be allowed.
- C. The Contractor shall take the necessary precautions to ensure that no part of the existing public works (streets, storm drains and other utilities) is damaged as a result of his operations. Any damage that does occur shall be promptly repaired by the Contractor at his expense. The Owner urges the Contractor to use rubber tired equipment when operation on paved roadways in order to prevent damage to the asphalt. The Contractor may use a layer of heavy neoprene to protect the roadway.
- D. In the event that a hurricane or tropical storm approaches the area, the Contractor shall secure all equipment, move all materials and prepare the construction site accordingly.
- E. The Contractor shall return all areas to pre-construction condition upon completion of work, at a minimum.

1.5 CONSTRUCTION SCHEDULE AND INSTALLATION PLAN:

- A. In addition to the construction schedule requirements stated in General and Supplemental General Conditions, the Contractor shall prepare a detailed installation plan for the work for approval by the Engineer and shall submit the plan to the Engineer for review prior to the preconstruction conference.

- B. The Contractor’s Installation Plan must consider the following criteria:
 - 1. Subsurface geotechnical conditions.
 - 2. Connection to existing utilities.
 - 3. Environmental impacts of construction activities.
 - 4. Locating and verifying the location of existing utilities and infrastructure.
 - 5. Maintaining access to residences and businesses along the project route.
- C. Upon award of the project, the Contractor shall work with the Owner and Engineer to have the contracts executed immediately.

1.6 ACCEPTABLE INCLEMENT WEATHER DAYS:

- A. Delays due to rain will be considered, only if the number of rain days is in excess of the average of days with precipitation of 0.01 inch or more for a city within a 100 mile radius of the project’s location. This information can be found at www.climate-zone.com.
- B. If the radius overlaps with a nearby by city, then the city with the shortest radius from the project location shall be used.
- C. If the project location does not fall within a 100 mile radius, the following schedule shall be used as the default.

Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec
11	10	10	8	8	11	15	14	10	6	8	10

- D. If admissible rain delay days occur, inclement weather delays may also be applicable. Inclement weather may include, in addition to rain delay days, “dry-out” days at a rate no greater than 1 make-up day for each day or consecutive days of precipitation that total 1.0 inch or more.
- E. On-site records of daily rain and/or temperature readings shall kept by the Contractor and may be accepted to verify weather and/or temperature variations which prevent earthwork, foundation and slabs, and/or roofing materials installation. The Owner’s field representative will also be required to maintain on-site records of daily rain and/or temperature.
- F. Cold Weather concreting shall be per ACI 306. The Contractor shall have a calibrated thermometer on site which is logged by the Inspector and Contractor prior to any concrete pours during cold weather.
- G. Notice of inclement weather delay days must be submitted by the Contractor to the Owner’s field representative for review on the first day of every month.

1.7 MOBILIZATION, GENERAL CONDITIONS, FEES, PERMITS AND WATER COST:

- A. Included in the Proposal is a pay item to cover all costs related to mobilizing, obtaining permits, license, bonds and insurance for this project. The Contractor shall include in the amount bid for this item all costs related to providing bonds, insurance, and other security, permits and permitting costs as required under this contract. The bidder shall limit this pay item to no more than three percent (3%) of the total bid. Any additional cost related to this item shall be included in the other various bid items.
- B. The Contractor is required to obtain all city licenses, building permits, and fees from the appropriate regulatory bodies. The Contractor is responsible for all fees associated with hauling off and proper disposal of all debris and construction spoils.

1.8 PROTECTION OF WORK, PROPERTY AND PERSONS:

- A. The Contractor shall thoroughly document the existing condition of all structures, landscaping and improvements in all areas where the construction work may result in actual damage or in damage claims. All costs associated with photographs, videotapes and other similar documentation shall be included in the bid prices. The method of providing this documentation of existing conditions shall be acceptable to the Engineer, and a complete set of the documentation shall be available to the Owner and the Engineer to help settle any disputes which may arise concerning what work is required to return property to its original condition or concerning property damage.

1.9 TRAFFIC CONTROL:

- A. It shall be the responsibility of the Contractor for all traffic control along any portion of the project. Where required, all necessary flagmen, traffic cones and drums, and traffic control plans shall be in place on both City/County Roads and State Highways to meet the governing department's specifications.
- B. The Traffic Control Plan shall be in conformance with the latest Edition of the Manual on Uniform Traffic Control Devices. In the event that actual physical conditions warrant additional traffic control devices, they shall be installed in conformance with the M.U.T.C.D. as directed by the Engineer. If applicable, the Contractor shall adhere to all conditions of the ALDOT and Baldwin County Utility Permits issued for the project and shall have a copy on site at all times.

1.10 WELL POINT DEWATERING:

- A. The Contractor shall thoroughly examine the site conditions prior to bid. All costs for well point dewatering, if required, shall be included in the "Well Point Dewatering" bid item. All costs for conventional trench dewatering shall be incidental to the various force main bid items.
- B. The discharge from any trench dewatering operations (including well point dewatering) shall be conducted to natural drainage channels or other structures as approved by the Engineer in accordance with applicable permits. Ground water shall not be discharged into any sanitary sewer systems.
- C. Dewatering shall be sufficient to provide a dry trench, and shall be maintained during all pipe laying operations.
- D. The Contractor shall be responsible for damage of any nature resulting from the dewatering operations.

1.11 SUBSURFACE GEOTECHNICAL INVESTIGATION:

- A. A subsurface geotechnical investigation has not been performed for this project. The Contractor is responsible for verifying subsurface conditions in areas of the project as required to complete the proposed improvements. All costs for subsurface investigation required by the Contractor shall be included in the various bid prices.

1.12 OBSTRUCTIONS AND EXISTING UTILITIES:

- A. The Contractor is cautioned that several underground utilities exist within the existing Right-of-Ways along the project route. These utilities include gas, water, sewer, power, fiber optic and telephone. Some utilities may not be shown on the plans. The Contractor shall be responsible for locating and protecting all existing utilities, whether shown on the plans or not.
- B. All existing utilities and structures shown on the plans are for reference only. The Contractor is

responsible for verifying all locations prior to beginning work.

- C. All costs associated with locating existing utilities and working around them shall be included in the total price bid. The Contractor shall conduct a thorough and complete investigation to determine the exact location of all existing utilities before beginning work. It is imperative that the Contractor determine the horizontal and vertical location of utilities in advance in order for adjustments to be made to the existing utilities. If at any time the existing utilities come in conflict with the proposed work (i.e. proposed line intersects an existing utility), all work in that area shall stop and the Contractor and/or his agent shall notify the Engineer immediately. Neither the Contractor nor his agents shall take it upon themselves to adjust or relocate existing utilities.
- D. The Contractor is to use extreme care in protection of all utilities and drainage structures throughout the work process.
- E. It shall be the Contractor's responsibility to contact utility companies 48 hours before starting construction so maintenance personnel can locate and protect facilities, if required by the utility company.
- F. It is the responsibility of the Contractor to ensure that all utility or other poles, the stability of which may be endangered by the close proximity of excavation, are temporarily stayed in position while work proceeds in the vicinity of the pole and that the utility or other companies concerned be given reasonable advance notice of any such excavation by the Contractor.

1.13 OWNER'S INFRASTRUCTURE AND CONNECTIONS TO EXISTING SYSTEM:

- A. The Contractor shall closely coordinate all work with the Owner and the Contractor shall, under no circumstances, stop operation of any existing utility without giving notice to the Owner.
- B. The Contractor shall closely coordinate with the Owner their schedule for disrupting service to existing customers.

1.14 OPEN CUTTING ASPHALT, STREETS, DRIVEWAYS:

- A. Should any driveways or streets be needed to be open cut, the trench shall be properly backfilled and tamped as specified elsewhere. A temporary asphalt patch, if needed, may be required if the permanent asphalt patch is not placed within a few weeks. As a minimum the Contractor will temporarily backfill with material that will provide a solid surface for vehicular traffic. Loose sand will not suffice. The pavement patch installation and build-up shall be as specified in the asphalt patch detail in the Drawings.
- B. Steel plates may also be utilized as a temporary measure to cover the patch.

1.15 EROSION CONTROL & STORM WATER PERMITTING:

- A. An ADEM NPDES Storm Water Permit has been acquired by the Owner, and a "Construction Best Management Practices (CMBP) Plan" has been developed for this project. The permit will be transferred to the Contractor upon award of the project. All costs associated with transfer of the permit to the Contractor, adherence to the CBMP Plan, required inspections, and termination of the permit shall be included in the total amount bid.
- B. The Contractor shall contact Brandon Smith (GMC) at (251)-460-4006 for pricing and coordination of this work.
- C. The Contractor will be responsible for any fines from regulatory agencies resulting from insufficient and/or unmaintained BMP's.

- D. The Contractor shall include in the lump sum bid price, "Erosion Control Measures", silt fences, erosion eels, wattle ditch checks, rip rap spillways, etc. in locations shown on the plans as well as areas deemed necessary in the field in order to control storm water run-off.
- E. The Contractor shall be responsible for compliance with all Federal and State regulations and statutes as relating to storm water permitting, erosion control and compliance with the BMP plan.

1.16 POLYETHYLENE (POLYWRAP) ENCASUREMENT:

- A. All Ductile Iron pipe in contact with any soil in the project area shall have polywrap encasement and shall be installed per manufacturer's instructions and in accordance with DIPRA installation requirements.
- B. The cost for polywrap encasement shall be included in the various ductile iron pipe bid items.

1.17 PIPE:

- A. PVC Force Main Pipe shall be AWWA C900, DR21 (Pressure Class 200) and color green.
- B. Ductile Iron Force Main Pipe shall be Pressure Class 350 with ceramic epoxy liner in accordance with Section 33 3000.
- C. HDPE force main pipe shall be DR9 or DR11, DIPS outer diameter in accordance with Part 2.1.D of Section 33 3000.
- D. The prices bid for the various items shall include everything necessary for a complete and workable installation.

1.18 SEWER SERVICE TRANSFER:

- A. The amount bid for this item shall include all items necessary to connect existing sewer service line to the new sewer main at locations shown on the plans, including but not limited to: a 2" tap and gate valve on the new sewer main, 2" PVC piping between the existing service line and new service stubout, connection to the existing service line, 2" plug/cap on existing service line to be abandoned, and all other incidentals necessary for a complete installation. The Contractor shall locate the existing service at each location and verify the location with the Owner's field representative prior to installing the new service connection at each location.

1.19 WARRANTIES:

- A. All equipment supplied under these Specifications shall be warranted by the Contractor and the equipment manufacturers for a period of one (1) year. Warranty period shall commence on the date of Owner acceptance.
- B. The equipment shall be warranted to be free from defects in workmanship, design and materials. If any part of the equipment should fail during the warranty period, it shall be replaced in the machine(s) and the unit(s) restored to service at no expense to the Owner.
- C. The manufacturer's warranty period shall run concurrently with the Contractors warranty or guarantee period. No exception to this provision shall be allowed. The Contractor shall be responsible for obtaining equipment warranties from each of the respective suppliers or manufacturers for all the equipment specified.
- D. In the event that the manufacturer is unwilling to provide a one (1) year warranty commencing at the time of the Owner acceptance, the Contractor shall obtain from the manufacturer a two (2) year warranty starting at the time of equipment delivery to the job site. This two-year warranty

shall not relieve the Contractor of the one-year warranty starting at the time of Owner acceptance of the equipment.

1.20 PLANS & SPECIFICATIONS:

- A. The awarded Contractor will be furnished with three (3) complete sets of Drawings and Project Manuals. Any additional sets required can be purchased for the payment fee as stipulated in the Advertisement for Bids.

1.21 CONCLUSION:

- A. The preceding specifications, together with the plans are intended to provide the Owner with a complete and workable system for the amounts bid in the Proposal. These prices shall therefore include all minor items which are not specified in detail but which would normally be provided.
- B. The foregoing clause is intended to cover minor items. Any bidder or manufacturer of equipment who should discover a major omission in the plans and specifications is requested to so notify the Engineer before bids are received in order that a suitable addendum may be issued.

PART 2 – PRODUCTS (not used)

PART 3 – EXECUTION (not used)

END OF SECTION 01 0300

NOT FOR BIDDING

NOT FOR BIDDING

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SECTION 01 1000 – SUMMARY OF THE WORK

PART 1 - GENERAL

1.1 SUMMARY:

- A. The following provides a brief summary of work described within the contract, but is not intended to have any force or effect upon the actual contract documents themselves. Briefly and without force and effect upon the contract documents, the work of the Contract can be summarized as follows:
1. Work of the Contract generally consist of:
 - a. The installation of approximately 15,300 linear feet of 12” force main by open cut; 16,400 linear feet of 14” force main by open cut; 2,600 linear feet of 16” force main by open cut; 1,500 linear feet of 14” force main by horizontal directional bore; 2,500 linear feet of 16” force main by horizontal directional bore; 2,850 linear feet of 20” force main by horizontal directional bore; and related appurtenances.
 - b. Connection to and abandonment of an existing sanitary sewer force main.

1.2 PROJECT/WORK IDENTIFICATION:

- A. General: Project name is “New Sewer Force Main Canal Road to CR-12” for the City of Orange Beach, Alabama, as shown on the Contract Documents prepared by GMC, dated September 2021.
- B. Contract Documents indicate the Work of the Contract and related requirements and conditions that have an impact on the project. Related requirements and conditions that are indicated on the Contract Documents include, but are not necessarily limited to the following.
1. Existing site conditions and restrictions on use of the site.
 2. Site work, erosion control, and construction sequencing.
- C. Summary by References: Work of the Contract can be summarized by references to the Contract, General Conditions, Supplementary Conditions, (if any), Technical Specification Sections, Drawings, Addenda and modifications to the Contract Documents issued subsequent to the initial printing of this Project Manual and including but not necessarily limited to printed material referenced by any of these. It is recognized that work of the Contract is also unavoidably affected or influenced by governing regulations, natural phenomenon including weather conditions, and other forces outside the contract documents.

PART 2 - PRODUCTS – (Not Used)

PART 3 - EXECUTION – (Not Used)

END OF SECTION 01 1000

NOT FOR BIDDING

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SECTION 01 1500 – MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.1 GENERAL:

- A. For the information and guidance of bidders, the following explanation of the bid form items is made. The omission or reference to any item in this description shall not, however, alter the intent of the bid form or relieve the Contractor of the necessity of furnishing such as a part of the Contract. The quantities set forth in the bid form are approximate and are given to establish a uniform basis for the comparison of bids. The Owner reserves the right to increase or decrease the quantity of any class or portion of the work during the progress of construction in accordance with the terms of the Contract. Unit prices are used as a means of computing the final figures for bid and contract purposes, for periodic payments for work performed, for determining value of additions or deletions and wherever else reasonable.
- B. Payment shall be made on the basis of work actually performed toward the completion of each item in the Contract proposal and construction cost breakdown, such work including, but not limited to, the furnishing of all necessary labor, materials, equipment, transportation, cleanup, and all other appurtenances to complete the construction and installation of the work to the configuration and extent as shown on the Drawings and described in the Specifications.
- C. The Contractor shall assume responsibility for all materials and equipment stored, protection of his product and compliance with all federal, state and local safety regulations.
- D. The Contractor will be paid only for satisfactorily installed and tested quantities. All material order quantities shall be taken from field measurements after approval from the Engineer. The Owner will not pay for excess leftover materials. All quantities derived or measurements taken from project plan sheets shall be considered estimates only.
- E. All excavation shall be bid on an “unclassified” basis. All costs for this type of work must be included in the amounts bid in the Proposal. No extra payment will be made for rock excavation or for muck excavation or the removal of any wet, unstable, or unsuitable soil. Should any unsuitable soil be encountered, the Contractor is responsible for procuring suitable material for backfill in those areas and all costs for this work must be included in the amounts bid in the proposal. The Contractor is required to inspect the area to his satisfaction prior to turning in a Bid Proposal.

1.2 BID ITEMS:

A. Mobilization

- 1. Work performed under this item shall consist of preparatory work and operations necessary for the movement of personnel, equipment, supplies, and incidentals to the project site; and for other work, operations or costs which are of necessary incurred prior to the beginning of construction. Bond costs, license fees, lump sum insurance premiums, and other such items

of expense may be included but any item that will be subsequently paid for as project work or material on hand shall be excluded.

2. Payment shall be at the Lump Sum (LS) contract price as stated in the contract documents. The cost of mobilization shall not exceed three percent (3%) of the total amount bid.

B. C900, DR18 PVC Force Main (Various Sizes)

1. Work performed under these items shall include furnishing all labor, materials, and equipment necessary to install the C900, DR18 PVC force main in locations shown on the drawings, including but not limited to: site preparation, excavation/trenching, pipe laying and joining, dewatering, cleaning, testing, backfill, and final grading in accordance with the drawings and contract documents.
2. Linear footage of force main pipe shall be measured horizontally along the centerline of the pipe, with no deduction for the length of fittings.
3. Payment shall be at the unit price per linear foot (LF) of C900 DR18 PVC force main pipe installed, tested, and accepted as stated in the contract documents.

C. DI Force Main (Various Sizes)

1. Work performed under these items shall include furnishing all labor, materials, and equipment necessary to install the ductile iron force main pipe in locations shown on the drawings, including but not limited to: site preparation, excavation, pipe laying and joining, dewatering, cleaning, testing, backfill, and final grading in accordance with the drawings and contract documents.
2. Linear footage of force main pipe shall be measured horizontally along the centerline of the pipe, with no deduction for the length of fittings.
3. Payment shall be at the unit price per linear foot (LF) of restrained joint ductile iron force main pipe installed, tested, and accepted as stated in the contract documents.

D. RJDI Force Main (Various Sizes)

1. Work performed under these items shall include furnishing all labor, materials, and equipment necessary to install the ductile iron force main pipe with restrained joints in locations shown on the drawings, including but not limited to: site preparation, excavation, pipe laying and joining, dewatering, cleaning, testing, backfill, and final grading in accordance with the drawings and contract documents.
2. Linear footage of force main pipe shall be measured horizontally along the centerline of the pipe, with no deduction for the length of fittings.
3. Payment shall be at the unit price per linear foot (LF) of restrained joint ductile iron force main pipe installed, tested, and accepted as stated in the contract documents.

E. DR9 or DR11 HDPE Force Main (Directional Drill Installation) (Various Sizes)

1. Work performed under this item shall include furnishing all labor, materials and equipment necessary to furnish and install new DR9 or DR11 HDPE force main by directional drill method in locations shown on the drawings, including but not limited to; site preparation, entry/exit pit excavation, directional drilling operations, drilling mud management, pipe

- fusing, backfill, dewatering, cleaning, testing, and final grading in accordance with the drawings and contract documents.
2. Measurement for linear footage of directional drill water main pipe shall be above-ground from bore entry to bore exit, horizontally along the alignment of the pipe.
 3. Payment shall be at the unit price per linear foot (LF) of HDPE force main installed by horizontal directional drill, tested, and accepted as stated in the contract documents
- F. Welded Steel Casing (Jack & Bore Installation) (Various Sizes)
1. Work performed under these items shall include furnishing all labor, materials, and equipment necessary to install steel casing by jack and bore method in locations shown on the drawings, including but not limited to: site preparation, excavation for pits, shoring, dewatering, casing welding and installation, management of drilling returns, backfill, and final grading in accordance with the drawings and contract documents. The cost of the carrier pipe is not included in this item.
 2. Payment shall be at the unit price per linear foot (LF) of steel casing installed by jack and bore as stated in the contract documents
- G. Uncased Bore (Various Sizes)
1. Work performed under these items shall include furnishing all labor, materials, and equipment necessary to perform the uncased bores in locations shown on the drawings, including but not limited to: site preparation, excavation for pits, shoring, dewatering, backfill, and final grading in accordance with the drawings and contract documents. The cost of the carrier pipe is not included in this item.
 2. Payment shall be at the unit price per linear foot (LF) of uncased bore performed as stated in the contract documents.
- H. Gate Valve (Various Sizes)
1. Work performed under these items shall include furnishing all labor, materials and equipment necessary to furnish and install new gate valves in locations shown on the drawings, including but not limited to; site preparation, excavation, backfill, dewatering, cleaning, testing, final grading, cast iron valve box, concrete valve box collar, concrete valve marker, and other miscellaneous items required to complete the work.
 2. Payment shall be made at the unit price per each (EA) gate valve installed and accepted as stated in the contract documents
- I. 2" Combination ARV Assembly
1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to furnish and install the 2" combination air release valve assembly in locations shown on the drawings and in accordance with the contract documents, including but not limited to: site preparation, excavation, combination air release valve and accessories, 2" tubing and gate valve, 2" service saddle, 60" concrete manhole with vented ring and cover, backfill, dewatering, cleaning, and final grading in accordance with the drawings and contract documents.

2. Payment shall be at the unit price per each (EA) ARV assembly furnished, installed, and accepted as indicated in the drawings and contract documents.

J. Ductile Iron Fittings

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to furnish and install epoxy-lined ductile iron fittings in locations shown on the drawings, including but not limited to: site preparation, excavation, polyethylene encasement, MEGALUG retainer glands, concrete thrust block (if minimum restraint length cannot be achieved), backfill, dewatering, and final grading in accordance with the drawings and contract documents.
2. Measurement for ductile iron fittings shall be based on the catalog weights (accessories not included) for mechanical joint ductile iron fittings and mechanical joint retainer glands (MEGALUGS).
3. Payment shall be at the unit price per ton (TON) of ductile iron fittings installed and accepted as stated in the contract documents.

K. Bell Restraint Harness (Various Sizes)

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to provide and install external bell restraint harnesses at locations shown on the drawings and at locations necessary to provide restraint for fittings, including but not limited to: site preparation, excavation, installation of the bell restraint harness, backfill, dewatering, and final grading in accordance with the drawings and contract documents.
2. Payment shall be at the unit price per each (EA) bell restraint harness installed and accepted as stated in the contract documents.

L. Concrete Deadman Anchor

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to install concrete deadman anchors at locations shown on the drawings, including but not limited to: site preparation, shoring, excavation, removal of excess excavated material, installation of reinforcement, forming and pouring the anchor, backfill, dewatering, final grading, and other incidentals in accordance with the drawings and contract documents.
2. Payment shall be at the unit price per each (EA) concrete deadman anchor installed and accepted as stated in the contract documents.

M. Connect to Existing Force Main (Various Sizes)

1. Work performed under these items shall include furnishing all labor, materials, and equipment necessary to perform a connection to the existing force main pipe at locations shown on the drawings, including but not limited to: excavation, dewatering, backfill, and final grading in accordance with the drawings and contract documents.
2. Payment shall be at the unit price per each (EA) connection to the existing force main performed and accepted as stated in the drawings and contract documents.

N. Sewer Service Stubout

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to install a stubout for future sewer service at locations shown on the drawings, including but not limited to: site preparation, excavation, installation of a 2" saddle tap on the new force main pipe, 2" gate valve, five (5) linear feet minimum of 2" PVC pipe, 2" cap, dewatering, backfill, final grading, and all other incidentals necessary for a complete installation, in accordance with the drawings and contract documents.
2. Payment shall be at the unit price per each (EA) sewer service stubout installed and accepted as stated in the drawings and contract documents.

O. Sewer Service Transfer

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to transfer the existing sewer service line to the new force main at locations shown on the drawings, including but not limited to: site preparation, excavation, installation of a 2" saddle tap on the new force main pipe, 2" gate valve, 2" PVC piping between the existing service line and new stubout, connection to the existing service line, 2" plug/cap on the existing service line to be abandoned, dewatering, backfill, final grading, and all other incidentals necessary for a complete installation, in accordance with the drawings and contract documents.
2. Payment shall be at the unit price per each (EA) sewer service transfer performed and accepted as stated in the drawings and contract documents.

P. Open Cut & Patch Gravel Drive

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to open cut and patch the gravel driveways in locations shown on the drawings, including but not limited to: site preparation, excavation, installation and compaction of new gravel, cleaning, and final grading in accordance with the drawings and contract documents.
2. Measurement for the open cut and patch shall be per each gravel driveway open cut and crossed with the pipe that is being installed, regardless of the width of the driveway. The Contractor shall open cut the minimum width required for installation of the pipe.
3. Payment shall be at the unit price per each (EA) gravel drive that is open cut and patched as stated in the contract documents.

Q. Remove & Replace Existing Sloped Headwall

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to remove and replace the existing concrete sloped headwall at the County Road 4 lift station site as shown on the drawings, including but not limited to: excavation, removal and disposal of the existing headwall, concrete forming and pouring, steel reinforcement, cleanup, final grading, and other incidentals as necessary for a complete installation in accordance with the drawings and contract documents. New sloped headwalls shall be constructed per ALDOT details and specifications.
2. Payment shall be at the unit price per each (EA) concrete sloped headwall removed, installed and accepted as stated in the drawings and contract documents

R. Remove & Replace Existing Rip Rap Check Dams

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to remove and replace the existing rip rap check dams adjacent to the Foley Beach Express and other locations in the project area not called out on the drawings (if necessary), including but not limited to: excavation, removal of the existing check dam, installation of the new check dam, cleanup, final grading, and other incidentals as necessary for a complete installation in accordance with the drawings and contract documents. The Contractor can reinstall the existing rip rap, but may be required to provide new rip rap in order to meet the requirements of the check dam detail given in the plans.
2. Payment shall be at the unit price per each (EA) rip rap check dam removed, installed and accepted as stated in the drawings and contract documents

S. Well Point Dewatering

1. Work performed under this item shall include furnishing all labor, materials and equipment necessary to dewater any trenches by way of well point methods in accordance with the contract documents.
2. All areas where Well Point Dewatering is proposed by the Contractor must be approved by the Inspector before well points are installed. No payment will be made for well points not approved by the Inspector.
3. Conventional methods of dewatering shall be included in the prices bid for the force main or related items.
4. Measurement for linear footage of well point dewatering shall be above-ground, horizontally along the centerline of the pipe.
5. Payment shall be made at the unit price per linear foot (LF) of well point dewatering installed and accepted as stated in the contract documents

T. Clearing and Grubbing

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to perform all clearing and grubbing operations along the sewer main route including but not limited to: removal of trees, vegetation, stumps, and grubblings from the right-of-way to a minimum depth of 18 inches, and proper disposal of the debris in accordance with the drawings and contract documents.
2. No debris shall be pushed off the right-of-way or onto adjacent property. No burning will be allowed by the Owner unless permitted by the local and state authorities. No stumps, logs, or grubblings are to be buried on the cleared right-of-way or lift station property.
3. Land exposure shall be minimized in terms of area and time. The Contractor shall be responsible for complying with all BMP's for erosion/sedimentation control during clearing and grubbing operations.
4. Payment shall be at the lump sum (LS) price as stated in the contract documents.

U. Traffic Control Measures

1. Work performed under this item shall include furnishing all labor, materials and equipment necessary to install, maintain and remove all temporary traffic control measures in locations shown on the drawings and in accordance with the contract documents, including but not

- limited to; construction warning signs, channelizing drums, construction cones and ballasts, portable arrow/chevron signs, and other miscellaneous items necessary to complete the work.
2. Payment shall be made at the lump sum (LS) price as stated in the contract documents

V. Erosion Control Measures

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to furnish, install, maintain, and remove all erosion and sedimentation controls in accordance with the drawings and contract documents, as well as any additional measures needed to ensure proper erosion and sedimentation control and regulatory compliance.
2. Payment shall be at the lump sum (LS) price as stated in the contract documents. The Contractor will be responsible for paying any fines from ADEM or any other regulatory agency as a result of inadequate erosion control measures.

W. Cleanup & Site Restoration

1. Work performed under this item shall include furnishing all labor, materials, and equipment necessary to complete all cleanup and site restoration, including but not limited to: cleanup of vegetation and construction debris, final topsoil, fertilizer, seeding, mulching, sodding, watering, maintenance, mowing, landscape and site restoration, and final grading in accordance with the drawings and contract documents.
2. All disturbed grassed areas along the sewer main route must be re-established to original or better condition by seeding or solid sod. Any new sod or seed must match the pre-disturbed grass species and shall be to the satisfaction of the Owner and Engineer.
3. All costs associated with restoring structures and facilities (roadway signs, ornamental shrubbery, landscaping plants, fences, etc.) to pre-construction conditions shall be included in this bid item.
4. Payment shall be at the lump sum (LS) price as stated in the contract documents.
 - a. The Owner and Engineer shall be the final determination as to whether lawns and stands of grass are acceptable.
 - b. Acceptable seeded areas shall be deemed areas with a vigorous and uniform stand of grass with bare areas less than 5 square feet in size. All areas which fail to provide a uniform stand of turf shall be treated or replanted repeatedly until a uniform stand of grass of at least 70% coverage is attained with no bare areas greater than 5 square feet.

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION (NOT USED)

END OF SECTION 01 1500

NOT FOR BIDDING

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SECTION 01 3010 – PROJECT MANAGEMENT & COORDINATION

PART 1 – GENERAL

1.1 SUMMARY:

- A. This Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
 - 1. Administrative and supervisory personnel.
 - 2. Project meetings.

1.2 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.3 COORDINATION:

- A. Coordination: Coordinate construction operations included in different Sections of the Specifications to insure efficient and orderly installation of each part of the Work. Coordinate construction operations, included in different Sections that depend on each other for proper installation, connection, and operation.
- B. Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
 - 1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.
- C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities and activities of other contractors to avoid conflicts and to insure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
 - 1. Preparation of Contractor's Construction Schedule.
 - 2. Preparation of the Schedule of Values.
 - 3. Installation and removal of temporary facilities and controls.
 - 4. Delivery and processing of submittals.
 - 5. Progress meetings
 - 6. Pre-installation conferences.
 - 7. Startup and adjustment of systems.
 - 8. Project closeout activities.

NOT FOR BIDDING

1.4 ADMINISTRATIVE AND SUPERVISORY PERSONNEL:

- A. General: In addition to Project superintendent, provide other administrative and supervisory personnel as required for proper performance of the Work.
 - 1. Include special personnel required for coordination of operations with other contractors.

1.5 PROJECT MEETINGS:

- A. General: All project meetings will be held at the Owner's office, unless otherwise indicated.
 - 1. Attendees: Engineer will inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Contractor shall notify Owner and Engineer if a meeting is necessary, and the Engineer will coordinate and schedule the date and time.
 - 2. Agenda: Engineer shall prepare the meeting agenda and distribute the agenda to all invited attendees.
 - 3. Minutes: Engineer shall record significant discussions and agreements achieved. Distribute the meeting minutes to everyone concerned including Owner and Contractor, within one (1) week of the meeting.
- B. Preconstruction Conference: Owner/Engineer shall schedule a preconstruction conference before starting construction, at a time convenient to Owner, Contractor, and Engineer, but no later than fourteen (14) days after execution of the Agreement. Conduct the meeting to review responsibilities and personnel assignments.
 - 1. Attendees: Authorized representatives of Owner, Construction Manager, Engineer, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties shall attend the conference. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Discuss administrative procedures outlined in the contract.
- C. Progress Meetings: Conduct progress meetings at monthly intervals (unless changed during Preconstruction Meeting).
 - 1. Attendees: In addition to representatives of Owner and Engineer, each Contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
 - 2. Agenda: Review and correct or approve minutes of previous progress meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Contractor's Construction Schedule
 - b. Review present and future needs of each entity present, including the following:
 - 1) Interface requirements.
 - 2) Sequence of operations.
 - 3) Status of submittals.
 - 4) Deliveries.
 - 5) Access.

- 6) Site utilization.
- 7) Temporary facilities and controls.
- 8) Work hours.
- 9) Hazards and risks.
- 10) Progress cleaning.
- 11) Quality and work standards.
- 12) Status of correction of deficient items.
- 13) Field observations.
- 14) Requests for interpretations (RFIs).
- 15) Status of proposal requests.
- 16) Pending changes.
- 17) Status of Change Orders.
- 18) Pending claims and disputes.
- 19) Documentation of information for payment requests.

D. Coordination Meetings: Conduct Project coordination meetings prior to any major facility shutdown, tie-ins or major equipment startup. Project coordination meetings are in addition to specific meetings held for other purposes, such as progress meetings and pre-installation conferences.

1. Attendees: In addition to representatives of Owner and Engineer, each contractor, subcontractor, supplier, and other entity concerned with current progress or involved in planning, coordination, or performance of future activities shall be represented at these meetings. All participants at the conference shall be familiar with Project and authorized to conclude matters relating to the Work.
2. Agenda: Review and correct or approve minutes of the previous coordination meeting. Review other items of significance that could affect progress. Include topics for discussion as appropriate to status of Project.
 - a. Interface requirements.
 - b. Sequence of operations.
 - c. Status of submittals.
 - d. Deliveries.
 - e. Access.
 - f. Site utilization.
 - g. Temporary facilities and controls.
 - h. Work hours.
 - i. Hazards and risks.
 - j. Quality and work standards.
 - k. Change Orders.
3. Reporting: Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

PART 2 – PRODUCTS (Not Used)

PART 3 – EXECUTION (Not Used)

END OF SECTION 01 3010

NOT FOR BIDDING

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SECTION 01 3300 – SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SUMMARY:

- A. This Section includes administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.
- B. Verification of Submitted Material: Verify field measurements, field construction criteria, catalog numbers, and similar data, including those by subcontractors, prior to submission.
 - 1. Contractor's responsibility for errors and omissions in submittals is not relieved by Engineer's review of submittals.
 - 2. By approving and submitting shop drawings, samples, or other product data, Contractor represents that he has determined and verified all field measurements, field construction criteria, materials, catalog numbers, and similar data. Further the Contractor represents that he has checked and coordinated submittals with the requirements of the project and of the Contract Documents.
- C. Deviations: Notify the Engineer, in writing at the time of submission, of deviations in submittals from the requirements of the Contract Documents, and submit written justification of the proposed deviations in letter form as an attachment to the appropriate submittal.
- D. Begin no work that requires submittals until return of submittals with Engineer's stamp and initials or signature indicating "No Exceptions Taken", "Make Corrections Noted", or "Note Markings".
- E. Project work, materials, fabrication, and installation shall conform to the final reviewed and returned submittal.

1.2 DEFINITIONS:

- A. Action Submittals: Written and graphic information and physical samples that require Engineer's responsive action.
- B. Informational Submittals: Written and graphic information and physical Samples that do not require Engineer's responsive action. Submittals may be rejected for not complying with requirements.

PART 2 - PRODUCTS

2.1 ACTION SUBMITTALS:

- A. General: Prepare and submit Action Submittals required by individual Specification Sections.

- B. All submittals shall be sent to the following email address to the attention of the Engineer listed on the Drawings. Submit digitally to matt.walker@gmcnetwork.com.
- C. Product Data: Collect information into a single submittal for each element of construction and type of product or equipment.
1. If information must be specially prepared for submittal because standard printed data are not suitable for use, submit as Shop Drawings, not as Product Data.
 2. Mark each copy of each submittal to show which products and options are applicable.
 3. Include the following information, as applicable:
 - a. Manufacturer's written recommendations.
 - b. Manufacturer's product specifications.
 - c. Manufacturer's installation instructions.
 - d. Standard color charts.
 - e. Manufacturer's catalog cuts.
 - f. Wiring diagrams showing factory-installed wiring.
 - g. Printed performance curves.
 - h. Operational range diagrams.
 - i. Mill reports.
 - j. Standard product operation and maintenance manuals.
 - k. Compliance with specified referenced standards.
 - l. Testing by recognized testing agency.
 - m. Application of testing agency label and seals.
 - n. Notation of coordination requirements.
 4. Submit Product Data before or concurrent with Samples.
 5. Number of Copies: The Contractor shall submit to the Engineer enough copies for his/her use plus three (3) additional copies for the Engineer to distribute to the Owner and Field Representative.
- D. Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Do not base Shop Drawings on reproductions of the Contract Documents or standard printed data.
1. Preparation: Fully illustrate requirements in the Contract Documents. Include the following information, as applicable:
 - a. Dimensions.
 - b. Identification of products.
 - c. Fabrication and installation drawings.
 - d. Roughing-in and setting diagrams.
 - e. Wiring diagrams showing field-installed wiring, including power, signal, and control wiring.
 - f. Shop-work manufacturing instructions.
 - g. Templates and patterns.
 - h. Schedules.
 - i. Design calculations.
 - j. Compliance with specified standards.
 - k. Notation of coordination requirements.
 - l. Notation of dimensions established by field measurement.
 - m. Relationship to adjoining construction clearly indicated.
 - n. Seal and signature of professional engineer if specified.

NOT FOR BIDDING

PART 3 - EXECUTION

3.1 SUBMITTAL PROCEDURES:

- A. General: Electronic copies of CAD Drawings of the Contract Drawings will not be provided by the Engineer for Contractor's use in preparing submittals.
- B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
- C. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
- D. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
- E. Engineer reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- F. Submittals Schedule: Make all submittals far enough in advance of scheduled dates for installation so as to provide time for reviews, securing necessary approvals, possible revision and resubmittal, and placing orders and securing delivery.
- G. For each submittal for review, allow 14 days excluding delivery time to and from Contractor.
- H. Resubmittal Review: Allow the same amount of days for review of each resubmittal as for the initial review.
- I. Sequential Review: Where sequential review of submittals by Engineer, Owner, or other parties is indicated, allow 21 days for initial review of each submittal.
- J. Identify variations in Contract Documents and product or system limitations that may be detrimental to successful performance of completed Work.
- K. Submittal Identification numbering system: The Contractor shall utilize and shop drawing submittal identification numbering system in the following manner:
 - 1. Each submittal shall be sequentially numbered beginning with one (1) through the last submittal number. Re-submittals shall list the prior submittal number followed by "Rev" and the revision number.
 - 2. The next six (6) to nine (9) digits shall be the applicable Specification section number.
 - 3. The next submittal identification shall be the submittal title.
 - 4. A typical submittal number would be as follows:
 - a. "10-312316.13-Excavation Protection Plan" – Initial submittal
 - b. "10Rev1-312316.13-Excavation Protection Plan" – First re-submittal
 - 5. Requests for Information (RFIs) shall utilize the identification numbering system as shop drawings except RFIs will have a separate sequential numbering system.
- L. Identification: Place a cover page or title block on each submittal for identification.

1. Indicate name of firm or entity that prepared each submittal on cover page or title block.
 2. Submittal identification number.
 3. Provide a space to record Contractor's review and approval markings and action taken by Engineer.
 4. Include the following information on stamp for processing and recording action taken.
 - a. Project name.
 - b. Date.
 - c. Name and address of Engineer.
 - d. Name and Address of Contractor.
 - e. Name of manufacturer.
 - f. Other necessary identification.
- M. When revised for resubmission, identify changes made since previous submission.
- N. Resubmittals: Make resubmittals in same form and number of copies as initial submittal.
1. Resubmit submittals until they are marked:
 - a. "No Exceptions Taken"
 - b. "Make Corrections Noted"
 - c. "Note Markings"
- O. Distribution: Furnish copies of final submittals to manufacturers, subcontractors, suppliers, fabricators, installers, authorities having jurisdiction, and others as necessary for performance of construction activities.
- P. Use for Construction: Use only final submittals with mark indicating action taken by Engineer as noted above.
- Q. Submittals not requested will not be recognized nor processed.
- R. Incomplete Submittals: Engineer will not review. Complete submittals for each item are required. Delays resulting from incomplete submittals are not the responsibility of Engineer.

END OF SECTION 01 3300

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SECTION 01 4000 – QUALITY REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION INCLUDES:

- A. Quality Control.
- B. Tolerances.
- C. References.
- D. Labeling.
- E. Mockup requirements.
- F. Testing and inspection services.
- G. Manufacturers' field services.

1.2 QUALITY CONTROL:

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with specified standards as the minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- C. Perform Work using persons qualified to produce required and specified quality.
- D. Supervise performance of Work in such manner and by such means to ensure that Work, whether completed or in progress, will not be subjected to harmful, dangerous, damaging, or otherwise deleterious exposure during construction period.

1.3 TOLERANCES:

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' recommended tolerances and tolerance requirements in reference standards. When such tolerances conflict with Contract Documents, request clarification from Engineer before proceeding.

1.4 REFERENCES:

- A. For products or workmanship specified by association, trade, or other consensus standards, comply with requirements of standard except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard by date of issue current as of date of the Contract except where specific date is established by code.
- C. Obtain copies of standards and maintain on Site when required by product Specification Sections.
- D. When requirements of indicated reference standards conflict with Contract Documents, request clarification from Engineer before proceeding.
- E. Neither contractual relationships, duties, or responsibilities of parties in Contract nor those of Engineer shall be altered from Contract Documents by mention of reference in reference documents.

1.5 TESTING AND INSPECTION SERVICES:

- A. The Owner will employ the services of the Engineer to perform all field inspection.
- B. Cooperate with independent firm or Engineer; furnish samples of materials, design mix, equipment, tools, storage, safe access, and assistance by incidental labor as requested.
- C. Employment of testing agency engineer or laboratory shall not relieve Contractor of obligation to perform Work according to requirements of Contract Documents.
- D. Re-testing or re-inspection required because of nonconformance with specified or indicated requirements shall be performed by same independent firm on instructions from Engineer. Payment for re-testing or re-inspection will be charged to Contractor by deducting testing charges from Contract Sum/Price.
- E. Agency Responsibilities:
 - 1. Review submittals and Field Inspection.
 - 2. Provide qualified personnel at Site. Cooperate with Engineer and Contractor in performance of services.
 - 3. Perform indicated sampling and testing of products according to specified standards.
 - 4. Ascertain compliance of materials and mixes with requirements of Contract Documents.
 - 5. Promptly notify Engineer and Contractor of observed irregularities or nonconformance of Work or products.
 - 6. Perform additional tests required by Engineer.
- F. Agency Reports: After each test, promptly submit two copies of report to Engineer, Contractor, and authorities having jurisdiction. When requested by Engineer, provide interpretation of test results.

- G. Limits on Testing Authority:
1. Testing agent may not release, revoke, alter, or enlarge on requirements of Contract Documents.
 2. Agency or laboratory may not approve or accept any portion of the Work.
 3. Agency or laboratory may not assume duties of Contractor.
 4. Agency or laboratory has no authority to stop the Work.

1.6 MANUFACTURER'S FIELD SERVICES:

- A. When specified in individual specification Sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe Site conditions, conditions of surfaces and installation, quality of workmanship, startup of equipment, testing, adjusting, and balancing of equipment, commissioning, and decommissioning as applicable, and to initiate instructions when necessary.
- B. Report observations and Site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturer's written instructions.

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION 01 4000

NOT FOR BIDDING

NOT FOR BIDDING

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SECTION 01 7839 – PROJECT RECORD DOCUMENTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY:

- A. Section includes administrative and procedural requirements for project record documents, including the following:
 - 1. Record drawings.
 - 2. Record specifications.
 - 3. Record product data.
 - 4. Miscellaneous record submittals.

1.3 CLOSEOUT SUBMITTALS:

- A. Record Drawings: Comply with the following:
 - 1. Number of Copies: Submit one set(s) of marked-up record prints.
 - 2. Number of Copies: Submit copies of record Drawings as follows:
 - a. Final Submittals:
 - 1) Submit one paper-copy set(s) of marked-up record prints.
 - 2) Submit PDF electronic files of scanned record prints and one set(s) of prints.
 - 3) Print each drawing, whether or not changes and additional information were recorded.
- B. Miscellaneous Record Submittals: See other Specification Sections for miscellaneous record-keeping requirements and submittals in connection with various construction activities.

PART 2 - PRODUCTS

2.1 RECORD DRAWINGS:

- A. Record Prints: Maintain one set of marked-up paper copies of the Contract Drawings and Shop Drawings, incorporating new and revised drawings as modifications are issued. Contractor shall maintain a set of marked up prints on the job site for review prior to pay request approval.
 - 1. Preparation: Mark record prints to show the actual installation where installation varies from that shown originally. Require individual or entity who obtained record data,

whether individual or entity is Installer, subcontractor, or similar entity, to provide information for preparation of corresponding marked-up record prints.

- a. Give particular attention to information on concealed elements that would be difficult to identify or measure and record later.
 - b. Accurately record information in an acceptable drawing technique.
 - 1) Locations shall be indicated by GPS or survey coordinates, bearings and distances, or distance measurements from at least three (3) fixed objects which are shown on the plans and will not be affected by Construction such as hydrants, edges of pavement, signs, valves, pins, building corners, etc.
 - c. Record data as soon as possible after obtaining it.
 - d. Record and check the markup before enclosing concealed installations.
 - e. Cross- reference record prints to corresponding archive photographic documentation.
2. Content: Types of items requiring marking include, but are not limited to, the following:
- a. Dimensional changes to Drawings.
 - b. Revisions to details shown on Drawings.
 - c. Depths of foundations below first floor.
 - d. Locations and depths of underground utilities.
 - e. Locations and depths of above and belowground pipeline fittings and appurtenances.
 - f. Location of Anode beds for cathodic protection.
 - g. Locations of concealed internal utilities.
 - h. Changes made by Change Order or Work Change Directive.
 - i. Changes made following Engineer's written orders.
 - j. Details not on the original Contract Drawings.
 - k. Field records for variable and concealed conditions.
 - l. Record information on the Work that is shown only schematically.
3. Mark the Contract Drawings and Shop Drawings completely and accurately. Use personnel proficient at recording graphic information in production of marked-up record prints.
4. Mark record sets with erasable, red-colored pencil. Use other colors to distinguish between changes for different categories of the Work at same location.
5. Mark important additional information that was either shown schematically or omitted from original Drawings.
6. Note Construction Change Directive numbers, alternate numbers, Change Order numbers, and similar identification, where applicable.
- B. Format: Identify and date each record Drawing; include the designation "PROJECT RECORD DRAWING" in a prominent location.
1. Record Prints: Organize record prints and newly prepared record Drawings into manageable sets. Bind each set with durable paper cover sheets. Include identification on cover sheets.
 2. Format: Annotated PDF electronic file with comment function enabled.
 3. Record Digital Data Files: Organize digital data information into separate electronic files that correspond to each sheet of the Contract Drawings. Name each file with the sheet identification. Include identification in each digital data file.

4. Identification: As follows:
 - a. Project name.
 - b. Date.
 - c. Designation "PROJECT RECORD DRAWINGS."
 - d. Name of Engineer.
 - e. Name of Contractor.

2.2 MISCELLANEOUS RECORD SUBMITTALS:

- A. Assemble miscellaneous records required by other Specification Sections for miscellaneous record keeping and submittal in connection with actual performance of the Work. Bind or file miscellaneous records and identify each, ready for continued use and reference.
- B. Format: Submit miscellaneous record submittals as PDF electronic file.
 1. Include miscellaneous record submittals directory organized by Specification Section number and title, electronically linked to each item of miscellaneous record submittals.

PART 3 - EXECUTION

3.1 RECORDING AND MAINTENANCE:

- A. Recording: Maintain one copy of each submittal during the construction period for project record document purposes. Post changes and revisions to project record documents as they occur; do not wait until end of Project.
- B. Maintenance of Record Documents and Samples: Store record documents and Samples in the field office apart from the Contract Documents used for construction. Do not use project record documents for construction purposes. Maintain record documents in good order and in a clean, dry, legible condition, protected from deterioration and loss. Provide access to project record documents for Engineer's reference during normal working hours.

END OF SECTION 01 7839

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SECTION 03 3000 - CONCRETE

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 01 Specification sections, apply to work of this section.
- B. Related work specified elsewhere includes:
 - 1. Section 03 6000 – Grouting
 - 2. Section 07 9200 – Joint Sealants
 - 3. Section 31 2000 – Excavation & Grading
 - 4. Section 31 2316.13 – Trenching

1.2 DESCRIPTION OF WORK:

- A. Work described in this section includes concrete work.
- B. “Mud Seals” (if any): As shown on Drawings (if any), and as indicated in the specifications, of lean 2,500 psi (minimum) concrete placed in the bottom of footing and foundation trenches and excavations, is required.
 - 1. Mud seals shall be completely clean prior to placement of any reinforcing and/or permanent or structural concrete.

1.3 REFERENCED STANDARDS:

- A. Codes and Standards: ACI 301 “Specifications for Structural Concrete Buildings”; ACI 318, “Building Code Requirements for Reinforced Concrete”; comply with applicable provisions except as otherwise indicated.
- B. Published U. S. Justice Department Regulations for the “Americans with Disabilities Act of 1990” (ADA; ADA-AG); and revisions and amendments thereto.
- C. “2010 ADA Standards for Accessible Design”, Published in the Federal Register September 15, 2010, and revisions and amendments thereto.

1.4 QUALITY ASSURANCE:

- A. Concrete Testing Service: All laboratory and field testing required to insure compliance with these specifications shall be performed by a qualified independent testing laboratory. Contractor shall be responsible for design of concrete mix.
- B. Certificates, signed by concrete producer and Contractor, will not be acceptable in lieu of material testing service reports.

C. Quality Control:

1. Sampling and testing shall be performed by the Testing Service for quality control during placement of concrete, and shall include the following, for each design strength of concrete.
2. Sampling Fresh Concrete: ASTM C 172, except modified for slump to comply with ASTM C 94.
3. Slump: ASTM C 143; one test for each concrete load at point of discharge, and one test for each set of compressive strength test specimens. Slump test shall be made with standard 12" high, frustrum of a cone, metal container with open ends.
4. Air Content: ASTM C 231 pressure for normal weight concrete; one for each set of compressive strength test specimens.
5. Concrete Temperature: Test hourly when air temperature is 40 degrees F. and below, and when 80 degrees F. and above; and each time a set of compression test specimens is made.
6. Compression Test Specimen: ASTM C 31; one set of 4 standard cylinders for each compressive strength test, unless otherwise directed. Mold and store cylinders for laboratory cured test specimens except when field cure test specimens are required.
7. Compressive Strength Tests:
 - a. ASTM C 39; one set for each 50 sq. yds. or fraction thereof, of each concrete class placed in any one day or for each 4,000 sq. ft. of surface area placed; 1 specimens tested at 7 days, 2 specimens tested at 28 days, and 1 specimens retained in reserve for later testing, if the required 28 day strength is not met. Otherwise, the cylinder may be destroyed.
 - b. If 28 day strength is not met, test one of two remaining cylinders at 56 days.
 - c. When strength of field-cured cylinders is less than 85% of companion laboratory-cured cylinders, evaluate current operations and provide corrective procedures for protecting and curing the in-place concrete.
8. Subgrade: Recompact any exposed subgrade and any new porous fill with "Select Fill" and porous fill - both as specified in Section 31 2000 - Excavation & Grading and on Drawings respectively, equivalent to existing and acceptable to project Geotechnical Engineer's testing agency; Provide and document with testing 98% Standard Proctor Density (SPD) of materials below slabs.

D. Test results shall be reported in writing to Engineer, Owner and Contractor within one day of when tests are made. Reports of compressive strength tests shall contain the project identification name and number, date of concrete placement, name of concrete testing service, concrete type and class, location of concrete batch in structure, design compressive strength at 28 days, concrete mix proportions and materials; compressive breaking strength and type of break of both 7-day tests and 28-day tests. Include daily log of concrete operations.

E. Additional Tests: The testing service shall make additional tests of in-place concrete when test results indicate specified concrete strengths and other characteristics have not been attained in the structure, as directed by Engineer. Testing service may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42, or by other methods as directed. Contractor shall pay for such tests conducted, and any other additional testing as may be required, when unacceptable concrete is verified.

- F. Flooring/Walkway Products: Products and installation, surfaces' co-efficient of friction (slip-resistance), etc., under the work of this Section shall be in compliance with the more stringent of applicable provisions of the following; And revisions and amendments thereto:
1. Published U. S. Justice Department Regulations for the "Americans with Disabilities Act of 1990" (ADA; ADA-AG);
 2. "2010 ADA Standards for Accessible Design", Published in the Federal Register September 15, 2010;
 3. ANSI A117.1;
 4. "Uniform Federal Accessibility Standards" (UFAS);
 5. International Building Code, as applicable at the project locale.

1.5 SUBMITTALS:

- A. Manufacturer's Data: Submit manufacturer's product data with installation instructions for proprietary materials including reinforcement and forming accessories, admixtures, joint materials, hardeners, curing materials and others as requested by Engineer.
- B. Laboratory Reports: Submit 2 copies of laboratory test or evaluation reports for concrete materials and mix designs.
- C. Mix Proportions and Design:
1. Proportion mixes complying with mix design procedures specified in ACI 301.
 2. Submit written report to Engineer for each proposed concrete mix at least 15 days prior to start of work. Do not begin concrete production until mixes have been reviewed and are acceptable to Engineer.
 3. Mix designs may be adjusted when material characteristics, job conditions, weather, test results or other circumstances warrant. Do not use revised concrete mixes until submitted to and accepted by Engineer.
 4. Use Air-entraining admixture in all concrete, providing not less than 4% and more than 8% entrained air for all concrete.

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Concrete Materials: Portland Cement:
1. ASTM C 150, type as required.
 2. Aggregates: ASTM C 33, except local aggregates of proven durability may be used when acceptable to Engineer.
 3. Water: Potable.
 4. Air-Entraining Admixture: ASTM C 260.
 5. Water-Reducing Admixture: ASTM C 494; type as required to suit project conditions. Only use admixtures which have been tested and accepted in mix designs, unless otherwise acceptable.
 6. Calcium chloride or admixtures containing chloride ions are not permitted.

- B. Vapor Retarders/Barriers: Provide vapor retarder/barrier cover over prepared base material where indicated below slabs on grade. Use only materials that are resistant to deterioration when tested in accordance with ASTM E 154, as follows:
1. Vapor Barrier, **General Use** (except as otherwise indicated below): Plastic Vapor Retarder: ASTM E 1745, Class A, minimum.
 - a. Provide equivalent to one of the following; Including in part, joint tape, mastic and/or seals, and all other components required for a complete, proper, and vaporproof installation; Product/Manufacturer:
 - 1) “Moistop Underslab”, standard thickness of \pm 12-mils; Fortifiber Building Products Systems. (***Basis of design, quality, performance & warranty***);
 - 2) “Griffolyn Type- 105”; Reef Industries, Inc.
 - 3) “Perminator 10 mil”; W.R. Meadows, Inc. (of Georgia).
 - 4) “Stego Wrap 10-mil”, Class A; Stego Industries, LLC.
 - 5) “Strata Barrier 11 mil”, Class A Vapor Retarder; Strata Systems, Inc.
 - 6) “Vapor Block 10 mil” or “-15 mil”; Raven Industries, Inc..
 - 7) “Viper VaporCheck 10-mil”; Insulation Solutions, Inc.
 - b. Locations for Use: Continuous below all building slabs, and other structural slabs, porches, stoops, pads, covered (below roofs, areas, etc., on grade, and turned-down to tops of footings.
- C. Related Materials:
1. Evaporation Retarder: Waterborne, nonmolecular film forming, manufactured for application to fresh concrete.
 2. Liquid Membrane-Forming Curing Compound: ASTM C 309, Type 1, Class A. Moisture loss not more than 0.55 kg/sq. meter when applied at 200 sq. ft./gal. Equivalent to “Sealtight CS-309” acrylic curing and sealing compound, as manufactured by W.R. Meadows, Inc.
 3. **Sealer for General Use and For Exposed Interior Concrete Floors:** ASTM C 309, Type 1, Class A, USDA accepted, VOC compliant; Equivalent to “Sealtight Vocomp-25” water-emulsion acrylic curing and sealing compound, as manufactured by W.R. Meadows, Inc.
 4. Coordinate the use (or non-use) of membrane-forming compounds with the suppliers of finishes to be provided on concrete surfaces. Do not use membrane-forming compounds at locations where they may have a detrimental effect on the permanent installation of the finish materials, floor coverings, their adhesives, setting beds, etc. At such locations, utilize only dissipating type compounds.
- D. Joint Fillers: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self-expanding cork in preformed strips.
- E. Expansion Joint Materials: Comply with requirements of Section 07 9200 - “Joint Sealants” for preformed and pourable expansion joint fillers and sealers.
1. Joint Fillers and Sealants: Refer to Section 07 9200 - “Joint Sealants.”

F. Form Materials:

1. Steel, wood, or other suitable material of size and strength to resist movement during concrete placement and to retain horizontal and vertical alignment until removal. Use straight forms, free of distortion and defects.
2. Use flexible spring steel forms or laminated boards to form radius bends as required.
3. Coat forms with a non-staining form release agent that will not discolor or deface surface of concrete.
4. Exposed Concrete Surfaces: Provide material to suit project conditions.

G. Reinforcing Materials:

1. Deformed Reinforcing Bars: ASTM A 615, Grade 60, unless otherwise indicated.
2. Welded Wire Fabric: Welded plain cold-drawn steel wire fabric, ASTM A 185.
 - a. Sizes: 6" x 6" W1.4 / W1.4 (6x6 10/10) at building slabs, floor slabs, sidewalks, pedestrian only traffic areas and mechanical pads, and 6" x 6" W2.9 /W2.9 (6x6 6/6) only at any vehicular paving areas and dumpster pads, unless heavier mesh is indicated on the Drawings.

2.2 PROPORTIONING AND DESIGN OF MIXES:

- A. Compressive Strength: 3,000 psi at 28 days, minimum, unless otherwise indicated; 4,000 psi at 28 days for concrete paving and as otherwise indicated.
- B. Water-Cement Ratio: Provide concrete for following conditions with maximum water-cement (W/C) ratios as follows:
 1. All Concrete: W/C 0.53
- C. Slump Limits: Proportion and design mixes to result in concrete slump at point of placement as follows:
 1. Ramps, Slabs, and Sloping Surfaces: Not less than three (3) inches or more than five (5) inches.
 2. Reinforced Foundation Systems: Not less than three (3) inches and not more than five (5) inches.
 3. Other Concrete: Not more than five (5) inches, unless otherwise indicated.

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Job Site Mixing: Not permitted.
- B. Ready-Mix Concrete: ASTM C 94.
- C. Formwork:
 1. Construct so that concrete members and structures are of correct size, shape, alignment, elevation and position.

2. Provide openings in formwork to accommodate work of other trades. Accurately place and securely support items built into forms.
 3. Clean and adjust forms prior to concrete placement. Apply form release agents or wet forms, as required. Retighten forms during concrete placement if required to eliminate mortar leaks.
- D. Reinforcements:
1. Position, support and secure reinforcement against displacement. Locate and support with metal chairs, runners, bolsters, spacers, hangers and/or new concrete brick (not clay brick), as required. Set wire ties so ends are directed into concrete, not toward exposed concrete surfaces.
 2. Install welded wire fabric in as long lengths as practicable, lapping at least one mesh.
 3. All reinforcing shall be observed by the Engineer before concrete is placed. Such observation shall not relieve the Contractor of his responsibility for correctness and compliance with contract documents.
- E. Joints: Provide construction, isolation, and control joints as indicated or required. Locate construction joints so as to not impair strength and appearance of structure. Place isolation and control joints in slabs-on-grade to stabilize differential settlement and random cracking.
- F. Installation of Embedded Items: Set and build into work anchorage devices and other embedded items required for other work that is attached to, or supported by cast-in-place concrete. Use setting diagrams, templates and instructions provided by others for locating and setting.
- G. Concrete Placement:
1. Comply with ACI, placing concrete in a continuous operation within planned joints or sections. Do not begin placement until work of other trades affecting concrete is completed.
 2. Consolidate placed concrete using mechanical vibrating equipment with hand rodding and tamping, so that concrete is worked around reinforcement and other embedded items and into forms.
 3. Protect concrete from physical damage or reduced strength due to weather extremes during mixing, placement and curing.
 - a. In cold weather comply with ACI 306.
 - b. In hot weather comply with ACI 305.
- H. Concrete Finishes:
1. Rough Form Finish: For formed concrete surfaces not exposed-to-view in the finish work or by other construction, unless otherwise indicated. This is the concrete surface having texture imparted by form facing material used, with tie holes and defective areas repaired and patched, and fins and other projections exceeding 1/4" height rubbed down or chipped off.
 - a. Provide grout rubbed finish at exposed building slab and loading dock edges, so as to provide a fine sand textured and consistent even finish and coloration.
 2. Scratch Finish: Apply scratch finish to monolithic slab surfaces that are to receive concrete or cementitious floor topping or leveling, or mortar setting beds.

3. Trowel Finish: Apply trowel finish to monolithic slab surfaces that are exposed to view or are to be covered with resilient flooring, paint, or other thin film coating. Consolidate concrete surfaces by finish troweling, free of trowel marks, uniform in texture and appearance.
 4. Non-Slip Broom Finish: Apply non-slip broom finish to exterior concrete walkways, platforms, steps and ramps, and elsewhere as indicated; Refer to Section 02 5200 if applicable for additional information regarding trowel finish at perimeter of walkway sections.
- I. Curing: Begin initial curing as soon as free water has disappeared from exposed surfaces. Where possible, keep continuously moist for not less than 72 hours. Continue curing by use of moisture-retaining cover or membrane-forming curing compound. Cure formed surfaces by moist curing until forms are removed. Provide protections are required to prevent damage to exposed concrete surfaces.

3.2 MISCELLANEOUS CONCRETE ITEMS

- A. Filling-In: Fill-in holes and openings left in concrete structures for passage of work by other trades, unless otherwise shown or directed, after work of other trades is in place. Mix, place and cure concrete as herein specified, to blend with in-place construction. Provide other miscellaneous concrete filling shown or required to complete work.
- B. Curbs: Provide monolithic finish to interior of exposed curbs by stripping forms while concrete is still green and steel-troweling surfaces to a hard, dense finish with corners, intersections and terminations slightly rounded.
- C. Reinforced Masonry: Provide concrete grout for reinforced masonry lintels and bond beams where indicated on drawings and as scheduled. Maintain accurate location for reinforcing steel during concrete placement.

3.3 CONCRETE FOUNDATIONS FOR EQUIPMENT

- A. The concrete pads required by gate operators and pedestals, mechanical and electrical equipment shall be included under this section of the specifications. See mechanical and electrical sections of the specifications, and mechanical and electrical drawings for size, design and location of equipment requiring concrete pads and foundations. Concrete shall be of same type as specified for floor slabs and shall have a smooth integral finish prior to applying broom finish. Set bolts, anchors, piping, etc., in concrete as required by manufacturer of equipment used. Templates or setting diagrams as necessary will be furnished by the various trades and equipment manufacturer. Provide turned-down perimeter footings, and steel reinforcing in footings and foundations as indicated.

END OF SECTION 03 3000

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SECTION 31 1000 – SITE CLEARING

PART 1 - GENERAL

1.1 SUMMARY:

- A. Furnish all labor, materials, equipment, and incidentals required and perform all clearing, grubbing, and stripping and stockpiling of topsoil for all pipelines and new structures as shown on the Drawings and as specified herein.
- B. The cost for all clearing operations shall be included in the “Clearing and Grubbing “ pay item.
- C. The Contractor shall restrict site clearing activities to within the project clearing limits.

1.2 RELATED REQUIREMENTS:

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.3 SUBMITTALS:

- A. The Contractor shall inform the Engineer ^{not less than} (3) working days before the start of land disturbing activities:

PART 2 - PRODUCTS (NOT USED)

PART 3 - EXECUTION

3.1 CLEARING AND GRUBBING:

- A. Identify property lines, permanent and temporary construction easements, rights-of-way, and clearing limits as shown on the Drawings prior to clearing.
- B. Install erosion control devices as shown on the Drawings and as specified in Section 31 2500.
- C. Except as otherwise directed, cut, grub, remove, and dispose of all trees, stumps, rocks, brush, shrubs, roots, and any other extraneous material which occur within the project construction limits as necessary for construction of the proposed improvements and remove from the project site, except where protection of trees is shown on the Drawings or direct by the Engineer. Stumps need to be removed only within the area actually excavated. Root mats shall be left intact until just prior to actual excavation.
- D. Trees in areas outside the easements/right-of-way shall be protected from damage. No equipment, materials, or excavation shall be allowed in areas outside the easements/right-of-way.

- E. No stumps, trees, limbs, or brush shall be buried on site, in backfill, or in any fills or embankments.
- F. Provide temporary seeding for all disturbed areas after clearing and grubbing until the subsequent construction work is performed within the following time schedule:
 - 1. Within 10 working days or 14 calendar days of disturbance, whichever is lesser.

3.2 STRIPPING AND STOCKPILING TOPSOIL:

- A. Strip topsoil from all areas to be excavated or filled. Avoid mixing topsoil with subsoil. Stockpile topsoil in areas within the easement as approved by the Engineer.
- B. Topsoil shall be free from brush, trash, stones, and other extraneous materials and protected until it is placed.

3.3 DISPOSAL OF MATERIALS:

- A. All tree trunks, limbs, roots, stumps, brush, foliage, other vegetation, rocks, and extraneous material shall be removed from the project site and disposed of in a manner meeting all applicable regulations.
- B. Burning of cleared and grubbed materials will not be permitted without written permission from the Owner.
- C. It will be the Contractor's responsibility to properly dispose of excavated materials unsuitable for conventional disposal.

3.4 PRESERVATION OF PUBLIC PROPERTY:

- A. The Contractor shall exercise extreme care to avoid disturbance of private and public property along the route of the construction. Trees, shrubbery, gardens, lawns, and other landscaping which are inadvertently damaged outside the easements shall be replaced and established to the condition existing prior to construction and to the property owner's satisfaction at no additional cost to the Owner.
- B. The Contractor shall temporarily restore the construction site within 14 days of pipe laying, and perform final restoration and cleanup of the site when all construction activities are complete.
- C. Any commercial or roadway signs disturbed or removed shall be restored to their original condition within 24 hours.
- D. All stone and other forms of access road stabilization shall be completely removed and all disturbed areas prepared, fertilized, and seeded per Section 32 9219.

3.5 WORK ON PRIVATE PROPERTY:

- A. Where portions of the work are constructed in easements through private properties, the Contractor shall confine his operation within the limits of the permanent and temporary construction easements as shown on the drawings.

- B. The Contractor shall further comply with all special provisions and Owner stipulations of the easements as noted on the Drawings.
- C. In the event that, for the convenience of the Contractor, obtaining a further temporary construction easement is necessary or desirable, it shall be the sole responsibility of the Contractor to obtain such easement from the owner of the property. If such an easement is obtained, the agreement shall contain provisions to hold the Project Owner harmless from any operations of the Contractor within the easement limits.
- D. The Contractor shall not enter upon or occupy any private land outside of the limits of the permanent and temporary construction easements unless a copy of the written easement agreement with the property owner is filed with the Engineer.
- E. Upon completion of any work on each private property the Contractor shall restore the property, including all fences, gates or other structures disturbed by his operations, to an equal or better condition than that in which he found it.
- F. No material shall be used on or removed from private property without the approval of the Engineer. A written, signed release form each property owner shall be obtained by the Contractor and a copy submitted to the Engineer.

END OF SECTION 31 1000

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SECTION 31 2316.13 – TRENCHING

PART 1 - GENERAL

1.1 SUMMARY:

- A. Section Includes:
 - 1. Excavating trenches for utilities
 - 2. Compacted fill from top of utility bedding
 - 3. Backfilling and compaction
- B. Related work specified elsewhere includes:
 - 1. 31 1000 – Site Clearing
 - 2. 33 3000 – Sanitary Sewerage

1.2 REFERENCE STANDARDS:

- A. ASTM D2321 – Standard Practice for Underground Installation of Thermoplastic Pipe for Sewers and Other Gravity-Flow Applications.
- B. ASTM D2487 – Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System)
- C. ASTM D488 – Standard Sizes of Coarse Aggregate
- D. ASTM D698 – Standard Test Methods for Laboratory Compaction Characteristics of Soil Using Standard Effort (12 400-ft-lbf/ft³ (600 kN-m/m³))
- E. AASHTO T 99 – Standard Method of Test for Moisture-Density Relations of Soils Using a 2.5-kg (5.5-lb) Rammer and a 305-mm (12-in) Drop
- F. AWWA C600 – Installation of Ductile-Iron Mains and Their Appurtenances
- G. AWWA C900 – Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 in. Through 60 in.
- H. 29 CFR PART 1926 (OSHA) – Safety and Health Regulations for Construction

1.3 SUBMITTALS:

- A. Excavation Protection Plan: Describe sheeting, shoring, and bracing materials and installation required to protect excavations and adjacent structures and property; include structural calculations to support plan. The plan shall be stamped by a qualified professional engineer registered in the State of Alabama.

- B. Method of dewatering including type of systems, equipment, material, and other pertinent data of dewatering system. The system shall be designed by a qualified professional engineer registered in the state of Alabama
- C. Product Data:
 - 1. Geotextile fabric.
 - 2. Bedding materials.
 - 3. Restoration materials.
- D. Materials Source: Name and location of imported fill materials suppliers.
- E. Classification of imported materials by Laboratory analysis or other certification.
- F. Submit information found from test boring and pits.

1.4 QUALITY ASSURANCE:

- A. Perform Work according latest requirements of OSHA excavation safety standards and all applicable state and local requirements.
- B. Design of excavation support and stabilization systems shall be performed by a professional engineer, registered in the State of Alabama with at least five (5) years of experience in design of similar excavation support systems.
- C. Design of the dewatering system shall be performed by a professional engineer, registered in the State of Alabama with at least five (5) years of experience in design of similar dewatering systems.

1.5 FIELD MEASUREMENTS:

- A. Prior to construction, the Contractor shall be responsible for taking sufficient measurements, horizontal and vertical, to ensure that all existing facilities, which includes but is not limited to; pavements, curbs, gutters, drainage facilities, fences, gates, mailboxes, signs, guardrails, markers, and monuments are restored to their original lines and grades.

1.6 COORDINATION:

- A. Verify Work associated with lower elevation utilities is complete before placing higher elevation utilities.
- B. The Contractor shall comply with the requirements of all encroachment permits obtained for the work, if applicable. If the Contractor wishes to deviate from the permit requirements he shall obtain a revision to the permit at no additional cost to the Owner.
- C. If any encroachment permits are required, the Contractor will be required under the terms of this contract to furnish the performance bond, insurance coverage, and any other security required by the Controlling Authority, either directly from him or indirectly from the Owner.

PART 2 - PRODUCTS

2.1 GENERAL:

- A. All excavation shall be “unclassified” unless described elsewhere in these specifications.
- B. Soils type shall be based upon ASTM D2487, Standard Classification of Soils for Engineering Purposes (Unified Soil Classification System).
- C. Stone or Coarse Aggregate type shall be based upon ASTM D488, Standard Sizes for Coarse Aggregates.
- D. Rip rap type shall be in accordance with the latest edition of the ALDOT Standard Specifications for Highway Construction.

2.2 MATERIALS:

- A. Structural backfill shall be imported or excavated trench material meeting the requirements of the geotechnical report. If no report is provided, structural backfill shall meet the following requirements:
 - 1. Class I through III per ASTM D2321
 - 2. Free of clay lumps, roots, debris, rubbish, frozen material, and stones larger than one inch in diameter, have < 35% fines, and capable of being compacted to 95% density per AASHTO T-99.
- B. Common backfill material shall consist of excavated materials meeting the following requirements:
 - 1. Class I through IV per ASTM D2321
 - 2. Highly organic silts, clays and Class V materials shall not be used.
 - 3. Materials shall be free roots, stumps, debris, rubbish, frozen material, and stones larger than one inch in diameter, and incapable of being compacted to 85% density per AASHTO T-99.
 - 4. Contain no stone blocks, broken concrete, masonry rubble, or other similar materials.
 - 5. Physical properties such that it can be readily spread and compacted during filling.
 - 6. Snow, ice, and frozen soil will not be permitted.
- C. Crushed Stone:
 - 1. Crushed stone for pipe bedding and foundation, structure bases, and other used indicated on the Drawings shall be angular, clean-washed, crushed stone graded in accordance with size #67 or #57 in ASTM D488 (ALDOT #67 or #57).
- D. Foundation Conditioning Material: Crusher-run rock, conforming to ASTM D448.
- E. Geotextile Fabric shall be used as directed by the Engineer or as indicated on the Drawings and shall conform to the following requirements:

1. Geotextile fabric shall be non-woven Mirafi, Type HP570, Type 140N; Dupont, Type PAR, Style 3401; as required by the drawings, or approved equal.
- F. Trench Plugs:
1. Trench plugs shall be concrete filled sacks, Bentonite Clay or material having a "GC" soil rating per ASTM D2487 and shall have a coefficient of permeability no greater than 0.001 cm/sec per ASTM D2434.
 2. If excavated material is to be used the Contractor shall submit verification and test results from a qualified laboratory that the material meets the classification and permeability specification above.

PART 3 - EXECUTION

3.1 LINES AND GRADES:

- A. Lay pipes to lines and grades indicated.
1. The Engineer may make changes in lines, grades, and depths of utilities when changes are required for project conditions
- B. Use laser-beam instrument with qualified operator to establish lines and grades of gravity sewer pipe.

3.2 PREPARATION:

- A. Ensure sediment and erosion control measures are installed per the Drawings and Section 31 2500 prior to performing any disturbing activity.
- B. Complete site clearing operations, if required, per the Drawings and Section 31 1000.
- C. Contact local utility line information service not less than two (2) working days before performing Work.
1. Request underground utilities to be located and marked within and surrounding construction areas.
- D. Identify required lines, levels, contours, and datum locations.
- E. All trees, utility and power poles along the line of the work must be protected, and at night a sufficient number of barricades and lights to prevent accidents shall be provided. Where pipelines are laid between the curb and the sidewalk or in other places where shrubbery and grass lawns are encountered, the Contractor shall carefully remove and replace the shrubbery and cut the grass sod in sections, laying it to the side and replacing it after the trench has been backfilled and allowed to settle.
- F. Unless otherwise indicated on the Drawings, protect bench marks, existing structures, fences, sidewalks, paving, and curbs from excavating equipment and vehicular traffic.
- G. Maintain and protect above and below grade utilities indicated to remain.

- H. Establish temporary traffic control measures and detours when trenching is performed in public rights-of-way. Relocate controls and reroute traffic as required during progress of Work.

3.3 SHEETING AND SHORING:

- A. Sheet, shore, and brace excavations to prevent danger to persons, structures and adjacent properties and to prevent caving, erosion, and loss of surrounding subsoil.
- B. All sheeting and shoring shall furnished and placed in accordance with the requirements of OSHA Standards, Subpart P, Part 1926, of the Code of Federal Regulations.
- C. No sheeting installed closer than one (1) pipe diameter or 2 feet (whichever is greater) from the outside edge of the pipe shall be withdrawn if driven below mid-diameter of any pipe. Any sheeting beyond these limits which is withdrawn shall be done in a manner in which the sheeting slides smoothly out of position without any disturbance of adjacent bedding. The remaining hole shall immediately be filled by hand with sand.
- D. If trench sloping is substituted for shoring, the slope shall be in accordance with all OSHA requirements. Sloping of the pipe trench shall only be allowed at depths of 10 feet or less below existing grade. The sloping of the trench wall shall terminate twelve inches above the top of the pipe and, from that point to the trench bottom, the trench wall shall be vertical.
- E. All excavations deeper than 10 feet below grade shall have appropriate excavation support systems from the bottom of the excavation to within a minimum of 10 feet from the top of the excavation.
- F. Repair damage to new and existing Work from settlement, water or earth pressure or other causes resulting from inadequate sheeting, shoring, or bracing at no additional cost to the Owner.
- G. The Contractor may, at his option, use movable earth retaining devices (trench boxes) to stabilize excavations for pipes where these devices can be effectively used. Trench boxes shall not be considered as a substitute for sheeting systems specifically called out on the Drawings. Trench boxes shall not be used for tunnel launch and exit shafts.
- H. Where movable earth retaining devices such as trench boxes, moveable sheeting, shoring or plates are used to support the sides of the trench, care shall be taken in placing and moving the boxes or supporting bracing to prevent movement of the pipe, or disturbance of the pipe bedding and backfill.
- I. Non-commercial trench box systems shall be designed by a professional engineer registered in the State of Alabama. Design drawings and computations for non-commercial trench boxes shall be submitted to the Engineer for information prior to construction.

3.4 DEWATERING:

- A. The Contractor shall, at all times during construction, provide and maintain ample means and devices with which to promptly remove and properly dispose of all water entering the excavation or other parts of the work and shall keep said excavation and work dry until the structures to be built therein are completed, or until the Engineers direct the Contractor to

discontinue dewatering operations. Wherever judged necessary by the Engineer, the Contractor shall employ well points to insure a dry excavation. No claims for an amount of money in excess of the bid price for the work will be entertained or allowed on account of the character of the ground in which the trench or other excavations are made.

- B. Dewatering shall at all times be conducted in such a manner as to preserve the natural undisturbed bearing capacity of the sub-grade soils at the proposed bottom of the excavation. Groundwater shall be lowered to at least 2 feet below the excavation level at all times.
- C. The Contractor shall provide for the disposal of the water removed from the excavation in such a manner as not to cause erosion, siltation, or turbidity increases in any water course; injury to public health; degradation or damage to private or public property, to any portion of the work completed or in progress, or to roads or streets; or cause any impediment to the reasonable use of the site by others.

3.5 EXCAVATION & TRENCHING:

- A. Underpin adjacent structures which may be damaged by excavation work.
- B. Trenches and excavations shall be open cut to proper depth and alignment for the installation of pipe, structures, and appurtenances as shown on the plans.
- C. The minimum trench width shall be at least the nominal pipe diameter plus 24 inches or as shown in the table below, whichever is greater:

Pipe Diameter	Depth < 6'	6' < Depth < 12'	12' < Depth
3"	2.4'	4.4'	6.4'
4"	2.4'	4.4'	6.4'
6"	2.6'	4.6'	6.6'
8"	2.7'	4.7'	6.7'
10"	2.9'	4.9'	6.9'
12"	3.1'	5.1'	7.1'
14"	3.3'	5.3'	7.3'
16"	3.4'	5.4'	7.4'
18"	3.6'	5.6'	7.6'
20"	3.8'	5.8'	7.8'
24"	4.1'	6.1'	8.1'

- D. Remove lumpy subsoil, boulders, and rock up of 6 feet in diameter.
- E. Slope banks with machine to angle of repose or less until shored.
- F. Grade top perimeter of excavations to prevent surface water from draining into excavation.
- G. Excavated material shall be stockpiled within the construction easement or other location(s) approved by the Engineer.
 - 1. The excavated material shall be piled on the side of the trench at least 4 feet (horizontally) extending away from the top of the excavated trench so that a clear

walkway will be maintained at the edge. Excavated material shall be kept clear of the sidewalks except where unusual conditions prevent this being done. All driveways shall be backfilled as soon as the pipe is laid and no driveway shall remain inaccessible at the end of the day's work.

2. Excavated material which has suitable characteristics for backfill shall be stockpiled in such a manner that it will not collect either surface water or rainwater. The stockpile top surface shall be sloped to drain away from the excavation site and graded smooth and compacted to drain rainwater rapidly. It shall be the Contractor's responsibility to control or adjust the moisture content of excavated materials to the requirements for common fill before such materials may be used for backfill at no additional cost to the Owner.
- H. Excess excavation shall be disposed of offsite by the Contractor. All handling, hauling, and disposal costs shall be considered incidental to the work. Disposal shall be in compliance with all applicable regulations. Excess excavation shall be as described below:
1. All rocks, stumps, roots, and organic muck, clay, or silt lenses removed in the preparation of the excavation for common fill.
 2. Soils which cannot qualify as common fill after preparation such as muck soils, high organic soil, or non-granular soil high in silt and clay content.
 3. Excavated material remaining at the end of the work after all stockpiles, and prepared backfill has been utilized as needed.
- I. Do not advance open trench more than 60 feet ahead of the pipe laying unless prior approval is given by the Engineer
- J. Excavate trenches to the bottom elevation of the bedding for structures and pipes. The width shall be at least 2 feet beyond the next lines of structure footings and as shown on the Drawings for gravity sewer pipes. Over-excavation that is not directed in writing by the Engineer shall be backfilled with structural fill at no additional cost to the Owner.
- K. Do not interfere with 45-degree bearing splay of foundations.
- L. When subsurface materials at bottom of trench are loose or soft, excavate to a depth of no more than 2 feet below the trench bottom, unless additional depth is authorized by Engineer, or until suitable material is encountered. Backfill with foundation conditioning material to the original trench bottom compacted to 95% maximum density.
- M. Underlay foundation conditioning material with geotextile overlapping each seam by a minimum 18 inches.
- 3.6 FOUNDATION, BEDDING AND EMBEDMENT:
- A. Foundation stone for structures and gravity sewer pipe shall be #57 or #67 stone placed to the minimum excavation widths as shown on the Drawings, and shall be at least 6 inches deep below the bottom of footings, base slabs, and to a depth as shown on the Drawings below the bottoms of gravity sewer pipe.
 - B. Foundation stone shall be placed only on dry, stable, compacted subgrade or on rock.

- C. Loose earth in the sub-grade shall not be acceptable. Where required, sub-grade compaction shall be with a vibratory type mechanical compactor.
- D. Trim excavation. Hand trim for bell and spigot pipe joints.
- E. No foundation contamination with earth shall be allowed. Immediately remove any earth mat that falls into the foundation during placement or compaction.

3.7 TRENCH PLUGS:

- A. An impervious clay ditch check or trench plug shall be required on the downstream side of all stream crossings, on both sides of all wetland crossings, where shown on the Drawings or as directed by the Engineer.
- B. The trench plug shall be constructed for a length of 3 feet as measured along the centerlines of the pipe and the full width of the trench excavation from the trench bottom to 6 inches above the top of the pipe.

3.8 BACKFILLING:

- A. All trenches and excavations shall be backfilled immediately after the pipe has been laid and inspected. Backfill material shall be approved in all cases by the Engineer and shall be free of objectionable debris. Backfilling shall include the refilling and compacting the fills in the trenches or excavation to the existing ground surface or to the existing road subgrade.
- B. Following the laying of the pipe, the pipe shall be centered in the trench, adjusted to line and grade and the initial bedding material shall be carefully placed on both sides of the pipe so as not to disturb the alignment and grade of the pipeline. The bedding material shall be sliced under the haunches of the pipe and compacted to fill all voids.
- C. Backfill structures carefully, bringing the fill up evenly on all sides.
- D. Bedding material for gravity sewer pipe shall consist of #57 or #67 stone and extend from the foundation stone to 6 inches above the top of the pipe.
- E. Bedding material for water mains and sewer force mains shall consist of compacted common backfill as detailed in the Drawings.
- F. Backfill material shall consist of crushed stone, structural, or common backfill depending upon location as detailed in the Drawings.
- G. Cut out soft areas of subgrade not capable of compaction in place. Backfill with common backfill and compact to density equal to or greater than requirements for subsequent backfill material.
- H. Maintain optimum moisture content of fill materials to attain required compaction density.
- I. Do not leave trench or excavation open at end of working day.

3.9 COMPACTION:

- A. Foundation and bedding stone for structures and gravity sewers shall be installed in maximum 6-inch lifts, as placed, and compacted with suitable compaction equipment to at least 95% of maximum dry density or as required by pipe manufacturers. Lift thickness shall be reduced to 4 inches in confined areas accessible only to hand-guided compaction equipment.
- B. Structural backfill shall be placed in maximum 6-inch level layers and compacted to at least 95% of maximum dry density as determined by ASTM D698, or as detailed in the geotechnical report.
- C. Common backfill shall be placed in maximum 12-inch layers and compacted to at least 85% of maximum dry density or as shown on the Drawings.
- D. Trench Plugs shall be placed in maximum 6 inch lifts and compacted to 95% density per ASTM D698.
- E. Compaction shall be by a vibratory-type mechanical compactor adjacent to structures and including between the pipe and trench sides, sheeting or trench box. Larger compaction equipment may be used as desired after backfill has reached at least two feet above the top of the pipe. For structures, the mechanical compactor shall be used between the structures and sheeting until the elevation at which sheeting is withdrawn, at which elevation the entire excavated area may be compacted with larger equipment if desired.

3.10 PROTECTION OF UTILITIES:

- A. The Contractor shall locate and protect all utilities which could be affected by the Work including but not limited to; overhead cables, poles, buried cables, duct banks, wastewater pipes, gas pipes, water pipes, and drainage pipes and appurtenances. Before working in any area the Contractor shall contact the local utility locating service to mark the locations of underground utilities. Any underground utilities that could interfere with the work shall be staked and flagged.
- B. Underground pipes and cables which cross the excavations shall be carefully exposed and temporarily supported by the Contractor to the satisfaction of the utility owner. The utility shall be carefully incorporated in the backfill with full support and protection. Length of utility support shall be based on actual field conditions.
- C. Utility relocation shall be discussed at a meeting with the Engineer and utility owner.
- D. Before operating any equipment near a buried or overhead electric cable, the Contractor shall contact the owner of the cable to arrange for protection of the cable and the Contractor's personnel and equipment.
- E. At least 48 hours prior to operating any equipment near a buried gas pipe line, the Contractor shall contact the owner of the line and inform them of the work.
- F. Compliance with the conditions of the Owner of an electric or gas utility shall be considered a subsidiary obligation under the Contract.

- G. The Inspector or Engineer shall be invited to attend all meetings between the Contractor and utility owner for information only.

3.11 FIELD QUALITY CONTROL:

- A. The Contractor will have compaction tests performed by the Engineer at all asphalt/concrete pavement patches on the compacted backfill and aggregate base to verify compliance with the Drawings and these specifications.
- B. Perform laboratory material tests according to ASTM D698, or AASHTO T 99 Method A.
- C. Perform in-place compaction tests according ASTM D2167 for density and ASTM D3017 for moisture content.
- D. When tests indicate Work does not meet specified requirements, remove Work, replace, compact, and retest.
- E. Frequency of Tests:
 - 1. ~~Trenches: One location every 500 feet.~~
 - 2. Patches: One location at each pavement patch.
 - 3. ~~Structures (Manholes): Two locations around each manhole in separate lifts.~~
 - 4. ~~Structures: At least two density tests shall be made beneath each structure, or as directed by the Engineer.~~

3.12 MAINTENANCE:

- A. The Contractor shall maintain all project areas during the specified warranty period. Maintenance shall include the following:
 - 1. Immediately filling and reseeding any eroded areas.
 - 2. Reseeding any areas where a full stand of grass does not develop.
 - 3. Removal and replacement of any trees which die or show distress.
 - 4. Refilling and reseeding any backfilled areas which settle and develop depressions.

END OF SECTION 31 2316.13

SECTION 31 2500 – EROSION AND SEDIMENTATION CONTROLS

PART 1 - GENERAL

1.1 SUMMARY:

- A. This section covers the installation and maintenance of erosion control measures for the project.
- B. All necessary precautions to prevent erosion and siltation, as required by the Alabama Department of Environment Management (ADEM). Storm Water Best Management Practices shall be followed, including items specified herein, and other items as required by the Permit (if applicable).
- C. The Contractor shall maintain all erosion control measures installed on a regular basis. The Contractor shall repair or replace damaged measures at the direction of the Engineer at no additional cost to the Owner.

1.2 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Related work specified elsewhere includes:
 - 1. Section 32 9219 – Seeding and Restoration
- C. Sedimentation and erosion control measures shall conform to the requirements of the most current:
 - 1. Alabama NPDES Construction General Permit
 - 2. ADEM Storm Water Management BMP
 - 3. Alabama Department of Transportation Standard Specifications for Highway Construction (ALDOT).
 - 4. Alabama Handbook for Erosion Control, Sediment Control, and Storm Water Management on Construction Sites and Urban Areas

1.3 SUBMITTALS:

- A. The Contractor shall keep on-site an updated copy of the NPDES Permit and BMP Plan.

1.4 QUALITY ASSURANCE:

- A. Any required inspections shall be performed by the Engineer's QCI certified inspector (Inspector).

- B. Any cost incurred by the Contractor for inspection due to delays in construction or overrun of the contract time shall be paid for by the Contractor and shall not be the responsibility of the Owner or Engineer.
- C. The Contractor will be responsible for paying any fines from ADEM or any other regulatory body as a result of inadequate erosion control measures.

PART 2 - PRODUCTS

2.1 MATERIALS:

- A. Furnish Stone and Aggregate materials per current ALDOT standards.
- B. Stone for Check Dam: No stone check dams required.
- C. Stone for Rip Rap: No rip rap required.
- D. Aggregate for Construction Entrance: Gravel construction entrances not required
- E. All rolled erosion control products (RECPs) including Temporary Erosion Control Blankets (ECB), and Turf Reinforcement Mat (TRM) shall meet the requirements of Section 860 of the current ALDOT Standard Specifications.
 - 1. Excelsior matting (ECB) shall be installed in all seeded drainage swales and ditches as directed by the Engineer.
 - a. Provide Curlex® III Long-Term Erosion Control Blanket as manufactured by American Excelsior Company or approved equivalent. The ECB shall provide seed and topsoil protection for up to 36 months.
 - 2. Excelsior matting (ECB) shall be installed on all disturbed areas with a slope of 3:1 or steeper, or as directed by the Engineer.
 - a. Provide Curlex® III Long-Term Erosion Control Blanket as manufactured by American Excelsior Company or approved equivalent. The ECB shall provide seed and topsoil protection for up to 36 months.
- F. Non-Woven Geotextile Fabric underlying construction entrances and ditch checks shall meet the requirements of the current ALDOT Standard Specifications.

2.2 SILT FENCE:

- A. The height of a silt fence shall not exceed 36 inches (0.9 m). Storage height and ponding height shall never exceed 18 inches (0.5 m).
- B. The standard-strength filter fabric shall be stapled or wired to the fence, and 6 inches (0.2 m) of the fabric shall extend into the trench.
- C. When standard-strength filter fabric is used, a 4"x4" 12-x12-gauge steel wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1-inch (25.4 mm) long, tie wires or hog rings. The wire shall extend into the trench a

minimum of 2-inches (51 mm) and shall not extend more than 36-inches (0.9 m) above the original ground surface.

- D. When extra-strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts.

2.3 INLET FILTER:

- A. A filter shall be used at any stormwater inlet during construction to filter runoff where soils have been disturbed.
- B. The filter shall be a weighted sediment tube filter with a diameter of 9.5-inches at the ends and tapering to 5 inches in the center. Lengths shall be 6 to 9 feet with a build-in triangular overflow for relief during high-intensity storm events.
- C. Unit Weight: 13 lbs/ft
- D. Interior Filter
 - 1. Materials: Shredded, recycled tire rubber particles with less than 2% metal and the rubber shall be washed during manufacturing.
 - 2. Particle Size: ½ inch to ¾ inch particle size
- E. The geotextile bag shall have
 - 1. Percent Open Area: 8%
 - 2. Apparent Opening Size: 30 U.S. Sieve
 - 3. Grab Tensile Strength: 400 lbs
 - 4. Flow Rate: 115 gal/min/ft²
 - 5. Puncture Strength: 125 lbs

2.4 TURBIDITY CURTAINS:

- A. Turbidity Curtains shall be placed at locations shown on the Drawings or as deemed necessary by the Engineer.
- B. Curtains shall be Type I DOT with 6" or 8" square foam filled floats. The fabric shall be 18 oz. PVC, as manufactured by GEI Works or approved equivalent.

2.5 SEDIMENT TUBES:

- A. Sediment tubes shall conform to the requirements of the current ALDOT specifications.
 - 1. Sediment tubes shall be composed of compacted geotextile, curled excelsior wood fiber, natural coconut fiber, hardwood mulch, growing media or a mixture of these materials enclosed by a flexible netting material and utilize an outer netting that consists of seamless high-density polyethylene, photodegradable material treated with ultraviolet stabilizers or a seamless, high-density polyethylene, non-degradable material.
 - 2. Straw, straw fiber, straw bales, pine needles and/or leaf mulch shall not be used.

3. Curled excelsior wood fiber or natural coconut fiber RECPs rolled up to create a sediment tube device shall not be used.
4. Anchor posts shall be steel posts minimum of 48" long
5. Sediment tube diameter shall be between 18" and 24". The mass per unit length shall be 3-lb/ft for 18" tubes and 4-lb/ft for 24" tubes with a 10% margin of error.

PART 3 - EXECUTION

3.1 INSTALLATION:

- A. Install all Erosion and Sediment Control BMPs in accordance with BMP Handbook, the project BMP Plan, and local requirements.
- B. Check Dam
 1. Determine length required for ditch or depression slope and excavate, backfill, and compact foundation area to firm, even surface.
 2. Install filter fabric prior to rock installation.
 3. Place Class B erosion control stone in an even distribution of rock pieces with minimum voids to the indicated shape, height, and slope.
- C. Temporary Construction Entrances
 1. Install construction entrances per the details shown on Drawings. Minimum thickness is 6 inches.
 2. Mound aggregate near intersection with public road to prevent site runoff entering road.
 3. Periodically dress entrances with 2-inch thick course aggregate when aggregate becomes clogged with soil.
- D. Silt and Turbidity Curtain
 1. Install per manufacturer's recommendations and the drawing details.
- E. Erosion Control Blanket
 1. Install per manufacturer's recommendations and the drawing details.
- F. Turf Reinforcement Mat
 1. Install per manufacturer's recommendations.
- G. Silt Fence
 1. The fence line shall follow the contour as closely as possible.
 2. If possible, the filter fabric shall be cut from a continuous roll to avoid the use of joints. When joints are necessary, filter cloth shall be spliced only at a support post, with a minimum 6 inch (0.2 m) overlap and both ends securely fastened to the post.
 3. Posts shall be spaced a maximum of 10 feet (3.1 m) apart and driven securely into the ground (minimum of 12 inches (0.3 m)). When extra-strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet (1.8 m).

4. Turn the ends of the fence uphill.
5. A trench shall be excavated approximately 4 inches (101 mm) wide and 6 inches (0.2 m) deep along the line of posts and upslope from the barrier.
6. The trench shall be backfilled and the soil compacted over the toe of the filter fabric.
7. Silt fences placed at the toe of a slope shall be set at least 6 feet (1.8 m) from the toe in order to increase ponding volume.
8. Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized and any sediment stored behind the silt fence has been removed.
9. Silt fences and filter barriers shall be inspected weekly after each significant storm (1 inch (25.4 mm) in 24 hour). Any required repairs shall be made immediately.
10. Sediment should be removed when it reaches 1/3 height of the fence or 9 inches (0.3 m) maximum.
11. The removed sediment shall conform to the existing grade and be vegetated or otherwise stabilized.

3.2 CLEANING:

- A. When sediment accumulation in sedimentation structures has reached a point one-half depth of sediment structure or device, remove and dispose of sediment.
- B. Do not damage structure or device during cleaning operations.
- C. Do not permit sediment to erode into construction or site areas or natural waterways.
- D. Clean channels when depth of sediment reaches approximately one-half channel depth.

3.3 INSPECTION AND MAINTENANCE:

- A. Inspect erosion control devices on a weekly basis and after each runoff event. Make necessary repairs to ensure erosion and sediment controls are in good working order.
- B. It is the Contractor's responsibility to perform all required inspections in accordance with all Authorities having Jurisdiction.
- C. Contractor is responsible for continually maintaining all temporary erosion control measures until permanent measures are properly installed and performing as required.

3.4 TEMPORARY AND PERMANENT SEEDING:

- A. Apply temporary or permanent seeding to restrain erosion on all disturbed areas as soon as practical but in no case longer than 14 calendar days following temporary or permanent cessation of construction whether or not the area is being used for construction access.

3.5 REMOVAL AND FINAL CLEANUP:

- A. Soil and erosion measures are to be maintained and remain in place until the disturbed area is stabilized and inspected by the Owner.
- B. The Engineer will issue a letter to the Contractor stating that the erosion control measures can be removed. Once this letter is received, the Contractor shall remove and dispose offsite all erosion and sediment control device and other remaining items. Dispose of all silt and waste materials offsite in a proper manner, then complete final restoration activities.

END OF SECTION 31 2500

NOT FOR BIDDING

SECTION 32 9219 – SEEDING AND RESTORATION

PART 1 - GENERAL

1.1 SUMMARY:

- A. Work described in this section includes site restoration material and general installation.

1.2 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Related work specified elsewhere includes:
1. Section 31 2500 – Erosion and Sedimentation Control

1.3 SUBMITTALS:

- A. Submit the following items in accordance with Section 01 3300 – Submittal Procedures
1. Product Data for fertilizer and seeds.

PART 2 - PRODUCTS

2.1 TOPSOIL:

- A. This Contractor shall furnish topsoil in sufficient quantity, to complete grading and planting operations as specified.
- B. Characteristics of topsoil to be furnished:
1. Fertile, friable, naturally occurring. Free of stones, clay, lumps, hardpan, roots, stumps, branches, sticks and other debris larger than two (2) inches in any dimension; free of noxious weeds, grasses, seeds, plants, extraneous matter and any substance harmful to plant growth.
 2. pH: 5.0 to 7.0
 3. Organic Matter: 5% to 10%
 4. Permeability Rate of 5×10^{-3} centimeters or greater at 85% compaction.
 5. Topsoil from project site may stockpiled and used if it meets the above criteria. Stockpiled topsoil must be protected from weather and construction traffic until it is placed.

2.2 SEEDING MIXES:

- A. All seed shall meet the requirements of these specifications and comply with applicable state law. The type of grass seed to be planted shall meet the approval of the Owner. Seed shall be delivered in sealed bags, properly labeled. Seeds of legumes shall be inoculated just before use with the appropriate culture. Seed mixtures shall be applied at the rate in pounds per acre and with the seasonal limitations shown in the Drawings.

2.3 FERTILIZER AND LIME:

- A. After ground preparation is complete, the area to be seeded shall have commercial fertilizer (800 lbs./acre: 13-13-13) and lime (1.5 ton/acre: dolomitic or calcitic lime) applied at the applicable rate.

2.4 HYDRO SEEDING:

- A. Hydro seeding may be used on the restored slopes. Under this method, spread the seed, fertilizer, and wood fiber mulch in the form of a slurry. Seeds of all sizes may be mixed together.

2.5 MULCHING:

- A. Areas with permanent grass seed and covered with slope mats or blankets will not require mulch.
- B. Mulching shall consist of covering areas that have been grassed or as otherwise specified with straw. Straw shall be threshed oats, pine, wheat, or rye, and shall be applied at the rate of 1-1/2 tons per acre. Mulch materials shall be free of seeds detrimental to the project.
- C. Mulch shall be free from leaves, twigs, insects, grasses, weeds, plants and their seeds, other foreign material and any substances harmful to plant growth.

PART 3 - EXECUTION

3.1 SITE PREPARATION:

- A. Bring the planting area to final grade and install the necessary erosion control measures.
- B. Divert concentrated flows away from the seeded area.
- C. Conduct soil test to determine pH and nutrient content. Roughen the soil by harrowing, tracking, grooving or furrowing.
- D. Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.
- E. Prepare a 3-5 inch (76-127 mm) deep seedbed, with the top 3-4 inches (76-102 mm) consisting of topsoil.

- F. The seedbed should be firm but not compact. The top three inches of soil should be loose, moist and free of large clods and stones.
- G. The topsoil surface should be in reasonably close conformity to the lines, grades and cross sections shown on the grading plans.

3.2 SEEDING:

- A. Seed to soil contact is the key to good germination.
- B. Furnish, sow, establish and maintain an acceptable growth of specified grass over all disturbed areas not otherwise designated to receive planting, mulch or sod.
- C. Sowing seed shall, in general, follow promptly after incorporation of fertilizer in a uniform manner.
- D. Sowing shall be done by approved mechanical seeders. Without prejudice to power equipment or seeders of other types and makes, hand operated cyclone seeders, in sufficient number, will be considered mechanical seeders. No sowing shall be done during windy weather, or when the prepared surface is crusted, or when the ground is frozen, wet or otherwise in a non-tillable condition.
- E. Immediately after sowing, the seeded area shall be harrowed, dragged, raked, or otherwise worked so as to cover the seed with a layer of soil one and one fourth inches (1-1/4") thick. After seed is properly covered, the seeded area shall be compacted immediately by means of a cultipacker, light roller, or approved drag.
- F. Care shall be exercised during covering operations to preserve the line, grade and cross-section of the seeded areas and to see that areas adjacent to pavement, curbs, etc., are not left higher than the paved surface.
- G. The Contractor shall water, fill washes, and otherwise protect and maintain the seeded areas until the contract is accepted. It shall be the responsibility of the Contractor to establish and maintain a satisfactory stand of grass, a satisfactory stand being defined as a complete cover of living grass (limited to species expected to germinate in the current season).
- H. Should the site be ready for seeding during a season when, in the opinion of the Engineer, the specified grass will not form a satisfactory cover, establish a cover of Winter Rye and reseed specified grass at earliest time when acceptable growth can be established at no additional cost to the Owner.

3.3 HYDRO SEEDING:

- A. Apply hydro seeding as follows:
 - 1. Use wood fiber mulch as a metering agent and seed bed regardless of which mulching method is chosen. Apply wood fiber mulch with seed and fertilizer at a minimum coverage of 1,500 to 2,000 lbs/acre.
 - 2. Prepare the ground for hydro seeding the same as for conventional seeding.

3. Use specially designed equipment to mix and apply the slurry uniformly over the entire seeding area.
4. Agitate the slurry mixture during application.
5. Discharge slurry within one hour after being combined in the hydro seeder. Do not hydro seed when winds prevent an even application.
6. Closely follow the equipment manufacturer's directions unless the Engineer modifies the application methods.

3.4 MULCHING:

- A. Apply mulch to seeded areas at specified rate within 24 hours after the area has been seeded.
- B. Evenly apply straw or hay mulch between ¾ inch and 1½ inch deep according to the texture and moisture content of the mulch material.
- C. Mulch shall allow sunlight to penetrate and air to circulate as well as shade the ground, reduce erosion, and conserve soil moisture. If the type of mulch is not specified on the Plans or in the Specifications, use any of the following as specified.
 1. Mulch with Tackifier: Apply mulch with tackifier regardless of whether using ground or hydro seeding equipment for seeding.
 - a. Mulch uniformly applied manually or with special blower equipment designed for the purpose.
 - b. After distributing the mulch initially, redistribute it to bare or inadequately covered areas in clumps dense enough to prevent new grass from emerging (if required).
 - c. Do not apply mulch on windy days.
 - d. Apply enough tackifier to the mulch to hold it in place. Immediately replace mulch that blows away. If distributing the mulch by hand, immediately apply the tackifier uniformly over the mulched areas.
 2. Walked-in-Mulch: Apply walked-in-mulch on slopes ranging in steepness from 5:1 to 2:1 and treat as follows:
 - a. Immediately walk it into the soil with a cleated track dozer. Make dozer passes vertically up and down the slope.

3.5 INSPECTION AND MAINTENANCE:

- A. Newly seeded areas need to be inspected frequently to ensure the grass is growing.
 1. Repair damage caused by pedestrian and/or vehicular traffic, or other causes.
 2. If the seeded area is damaged due to runoff, additional stormwater measures may be needed.
- B. Satisfactory Stand
 1. The acceptance of areas designated to be seeded under this Section will be based on verification of a satisfactory stand of grass as determined by an on-site observation by the Engineer.

2. A satisfactory stand is defined as a cover of living grass of specified species, after true leaves are formed in which no gaps larger than five (5) inches square occur. Areas viewed by the Engineer to be solid rock will be exempt from this requirement.
 3. If a satisfactory stand is not established in any area, the area shall be reseeded until a satisfactory stand is established, without additional compensation.
- C. Spot seeding can be done on small areas to fill in bare spots where grass did not grow properly.

END OF SECTION 32 9219

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SECTION 33 0523.13 – HORIZONTAL DIRECTIONAL DRILLING

PART 1 - GENERAL

1.1 SUMMARY:

- A. The work specified in this section consists of furnishing and installing underground utilities using the directional boring (horizontal directional drilling, HDD) method of installation, also commonly referred to as guided horizontal boring. This work shall include all services, equipment, materials, and labor for the complete and proper installation, testing, restoration of underground utilities and environmental protection and restoration.

1.2 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- B. Related work specified elsewhere includes:
 - 1. Section 33 3000 – Sanitary Sewerage

1.3 SUBMITTALS:

- A. Within five days following the preconstruction conference, the Contractor shall submit in writing:
 - 1. A work plan consisting of a detailed procedure and schedule to be used to execute the project. The work plan is to include:
 - a. Complete list of construction materials, equipment and supplies including (when applicable) the name of the manufacturer, for the items listed below:
 - 1) Pipe and fittings
 - 2) Drilling mud
 - 3) Drilling fluid additives
 - b. Specifications on Type of Drilling Equipment to be used including:
 - 1) Drilling rig including torque and pullback capacity
 - 2) Mud system
 - 3) Mud motors
 - 4) Down-hole tools
 - 5) Guidance system including calibration records
 - 6) Rig safety systems
 - c. List of personnel and their qualifications and experience

NOT FOR BIDDING

- d. List of subcontractors (if any)
 - e. Schedule of work activity
 - f. Safety plan (including MSDS of any potentially hazardous substances to be used)
 2. The work plan should be comprehensive, realistic and based on actual working conditions for this particular project.
 3. A detailed Inadvertent Release (Frac-Out) Contingency Plan, including method of monitoring quantity and capturing the return of drilling fluids with particular attention to variation from proposed plan (i.e. volumes, pressure, ore consistency), and the method of drilling fluid disposal. The Frac-Out Contingency Plan must be given to Engineering Inspector before any drilling is to take place.
 4. For drills longer than 1000 feet in length or greater than 12 inches in diameter, the Contractor shall also submit a bore plan consisting of:
 - a. A scaled drawing of the pilot bore plan for review (Max. Vertical Scale 1" = 2' and Max. Horizontal Scale 1" = 20'). Show finished grade, deflection and radiuses of the pilot bore, all existing utilities with minimum vertical and horizonatal clearances.
 - b. The location of all drill rig setups (entry and exit) and for multiple bores, the lengths of each bore based on soil conditions, equipment used, topography, etc.
 - B. Upon completion of the pilot hole, submit a complete set of "as-built" records. Include in these records copies of the pilot bore path plan and profile record drawing, as well as directional survey reports as recorded during the drilling operation.
 - C. Shop Drawings, Samples, Designs, Testing Equipment and Methods.
 1. The Engineer will review with reasonable promptness shop drawings, samples, and methods, etc., but the Engineer's review shall be only for conformance with the design concept of the Project and for compliance with the information given in the Contract Documents.
 2. The Engineer's review shall not relieve the Contractor from responsibility for any deviation from the Contract Documents unless the Contractor has in writing called the Engineer's attention to such deviation and the Engineer has given written concurrence and approval to the specific deviation.
 3. The Engineer's review shall not relieve the Contractor from responsibility to meet the Acceptance Criteria and warranty requirements specified herein.
 - D. Additional test and field reports: Submit the following:
 1. Pressure test per ASTM F2164.
- 1.4 REFERENCE STANDARDS:
- A. The latest revisions of standards of AWWA, ASTM, ANSI, and API shall apply as referenced herein. Standards shall include, but are not restricted to the following:
 - B. ASTM F1962 – Standard Guide for Use of Maxi-Horizontal Directional Drilling for Placement of Polyethylene Pipe or Conduit under Obstacles, Including River Crossings.

- C. AWWA C900 - Polyvinyl Chloride (PVC) Pressure Pipe and Fabricated Fittings, 4 In. Through 60 In. (100 mm Through 1,500 mm)
- D. ASTM F2620 - Standard Practice for Heat Fusion Joining of Polyethylene Pipe and Fittings
- E. AWWA C906 – Polyethylene (PE) Pressure Pipe and Fittings, 4 in. Through 65 in (100 mm Through 1,650 mm) for Waterworks.
- F. Plastic Pipe Institute Handbook, Latest Edition.
- G. Where reference is made to one of the above standards, the revision in effect at the time of the bid opening shall apply unless a different date is shown.

1.5 QUALITY ASSURANCE:

- A. All directional drilling operations shall be performed by a qualified directional drilling company who has at least five (5) years' experience involving work of a similar nature.
- B. The company must have installed a minimum of 10,000 linear feet of pipe (6-inch diameter or greater) using directional drilling operations or supply a list of project references, prior to job commencement.

1.6 DELIVERY, STORAGE, AND HANDLING:

- A. All parts and materials shall be properly protected so that no damage, deterioration, or contamination occurs from time of shipment until installation is completed.
- B. Pipes shall be stored on level ground, preferably turf or sand, free of sharp objects which could damage the pipe. Stacking of the pipe shall be limited to a height that will not cause excessive deformation of the bottom layers of pipes under anticipated temperature.
- C. Where necessary due to ground conditions, the pipe shall be stored on wooden sleepers, spaced suitably and of such widths as not to allow deformation of the pipe at the point of contact with the sleepers
- D. The open ends of all sections of joined and/or installed pipe (not in service) shall be plugged at night to prevent animals or foreign material from entering the pipe line or pipe section.
- E. The handling of the joined pipeline shall be in such a manner that the pipe is not damaged by dragging it over sharp and cutting objects. Ropes, fabric, or rubber protected slings and straps shall be used when handling pipes. Chains, cables, or hooks inserted into the pipe ends shall not be used. Slings for handling the pipeline shall not be positioned at pipe joints. Sections of the pipes with cuts and gouges exceeding 10 percent of the pipe wall thickness or kinked sections shall be removed and the ends rejoined.

1.7 PERMITS:

- A. Obtain any additional Federal, State, or local permits required for directional drilling, discharging water from the sites, or clearing the sites for work or access.

- B. Furnish separate copies of all permits to the Owner and the Engineer as the permits are received.

1.8 UNDERGROUND AND OVERHEAD UTILITIES:

- A. Secure information concerning the location of underground and overhead utilities in proximity to the pipeline alignment, prior to the start of drilling.
- B. The Contractor shall confirm the alignment and location of all critical utilities, using vacuum excavation or other suitable excavation method, for further detailed confirmations as necessary at no additional cost to the Owner.
- C. Damage to underground and overhead utilities resulting from the actions of the Contractor are the sole responsibility of the Contractor.

1.9 NOTIFICATION:

- A. The Contractor shall attend a pre-construction conference with the Engineer and Owner at least 5 days prior to performing any work on site.
- B. Notify the Engineer, in writing, at the preconstruction conference, the number of drilling rigs and personnel to be used on the project. Any change in the number of rigs and personnel shall require written notification of the Engineer, at least 48 hours prior to the change.
- C. Notify the Engineer 24 hours prior to start of any drilling activities including pilot hole drilling, pre-reaming or hole enlargement, back pulling, and testing activities.
- D. No work shall be performed without completing the notification requirements specified above.

1.10 ACCEPTANCE CRITERIA:

- A. If, as a result of the hydrostatic and leakage test analysis, the Engineer determines that the pipe is not acceptable, the driller will abandon the line in place by fusing a cap to both ends of the conduit and replace the line at no additional cost to the Owner.
- B. Any ground surface disturbance shall be repaired by the Contractor to the satisfaction of the Engineer at no additional cost of the Owner
- C. No payment for the drilling will be due the Contractor if he/she fails to meet all above requirements.

1.11 WARRANTY:

- A. All material supplied under this Section shall be warranted for a period of one year by the Contractor and material manufactures. The manufacturer's warranty period shall run concurrently with the Contractor's warranty period. The warranty period shall commence on a date as deemed by the Engineer. If material should fail during the warranty period, the materials shall be replaced and restored to service by the Contractor at no expense to the Engineer and Owner.

- B. All workmanship supplied under this Section shall be warranted for a period of one year. The warranty period shall commence on the completion of the final acceptance of the work on the project. If the workmanship should prove faulty during the warranty period, the fault shall be corrected at no expense to the Owner.

1.12 ADDITIONAL WORK:

- A. At the option of the Engineer or the Owner, additional work may be authorized. Additional work shall be completed at prices not exceeding those of comparable work and materials, as determined by the Engineer and as specified in the Schedule of Values.

PART 2 - PRODUCTS

2.1 CONDUIT PIPE:

- A. Conduit pipe to be installed by directional bore shall be as specified in Section 33 3000 and listed in the Schedule of Values. The pipe shall be joined and installed in accordance with the manufacturer's recommendations.
- B. The pipe shall have sufficient strength to withstand the forces subjected during pull back operations.

2.2 DIRECTIONAL DRILLING EQUIPMENT:

- A. The directional drilling equipment shall consist of a directional drilling rig of sufficient capacity to perform the bore and pull back the pipe, a drilling, fluid mixing, delivery and recovery system of sufficient capacity to successfully complete the installation, a drilling fluid recycling system to remove solids from the drilling fluid so that the fluid can be reused (if required), a Magnetic Guidance System (MGS) or "walkover" system to accurately guide boring operations, a vacuum truck of sufficient capacity to handle the drilling fluid volume, and trained and competent personnel to operate the system.
- B. All equipment must be in good, safe condition with sufficient supplies, materials and spare parts on hand to maintain the system in good working order for the duration of this project
- C. The drilling rig shall consist of a hydraulically powered system to rotate and push hollow drilling pipe into the ground at a variable angle while delivering a pressurized fluid mixture to a guidable drill (bore) head.
- D. The machine shall be capable of being anchored to the ground sufficiently to withstand the pulling, pushing and rotating pressure required to complete the installation.
- E. The hydraulic power system must be self-contained with sufficient pressure and volume to power drilling operations. Hydraulic system must be free of leaks.
- F. The rig shall have a system to monitor and record maximum pullback pressure during pull-back operations. A system to detect electrical current from the drill string must be in place with an audible alarm that automatically sounds when an electrical current is detected.

- G. The drill head shall be steerable by changing its rotation with the necessary cutting surfaces and drilling fluid jets.
- H. The mud motor shall have adequate power to turn the required drilling tools.
- I. The drill pipe shall be constructed of high quality 4130 seamless tubing, grade D or better, with threaded box and pins. Tools joints should be hardened to 32-36 RC.
- J. Do not use other devices or utility placement systems for providing horizontal thrust other than those previously defined in the preceding sections unless approved by the Owner prior to commencement of the work.

2.3 GUIDANCE SYSTEM:

- A. The guidance systems shall consist of an electronic "walkover" tracking system, wireline system or proven (non-experimental) gyroscopic probe and interface for a continuous and accurate determination of the location of the drill head during the drilling operation.
- B. The guidance system must be capable of tracking at all depths up to fifty feet and in any soil condition, including hard rock. It should enable the driller to guide the drill head by providing immediate information on the tool face, azimuth (horizontal direction), and inclination (vertical direction).
- C. The guidance system must be accurate and calibrated to manufacturer's specifications of the vertical depth of the borehole at sensing position at depths up to fifty feet and accurate to 2- feet horizontally.
- D. The proposed vertical and horizontal clearances between the bored pipe and any existing/proposed conflicting pipes, conduits or obstructions shall be at least two times the guidance system accuracy tolerance.
- E. The wire line shall be set up and operated by personnel trained and experienced with the system.
- F. The Contractor shall be aware of any geo-magnetic anomalies and consider such influences in the operation of the guidance system.

2.4 MUD SYSTEM:

- A. A self-contained, closed, mud mixing system of sufficient size to mix and deliver drilling fluid (mud) composed of bentonite clay, potable water, and appropriate additives.
- B. The mixing system must be able to molecularly shear individual bentonite particles from the dry powder to avoid clumping and ensure thorough mixing. The drilling fluid reservoir tank must be a minimum of 1,000 gallons. Agitate the drilling fluid during drilling operations.
- C. Drilling fluids and additives shall not impart any toxic substances to the water or promote bacterial contamination; and shall have third party certifications of conformance with ANSI/NSF Standard 60, Drinking Water Treatment Chemicals – Health Effects.

- D. Use drilling fluid composed of potable water and bentonite clay. Supply water from an authorized source with a pH of 8.5-10. Treat any water of a lower pH or with excessive calcium with the appropriate amount of sodium carbonate or equal. No additional material may be used in drilling fluid without prior approval from the Owner. The bentonite mixture used must have the minimum viscosities as measured by a Marsh funnel:
1. Rocky Clay 60 seconds
 2. Hard Clay 40 seconds
 3. Soft Clay 45 seconds
 4. Sandy Clay 90 seconds
 5. Stable Sand 80 seconds
 6. Loose Sand 110 seconds
 7. Wet Sand 110 seconds
- E. These viscosities may be varied to best fit the soil conditions encountered, or as determined by the operator. No additional fluid shall be used without prior approval from the Owner.
- F. The drilling mud shall be delivered by a fluid pumping system with a minimum capacity of 35-500 GPM and capable of delivering drilling fluid at a constant minimum pressure of 1200 psi. Employ filters on the delivery system in-line to prevent solids from being pumped into drill pipe.
- G. The Contractor shall contain and convey all used drilling fluid and drilling fluid spilled during operations to the drilling fluid recycling system or remove by vacuum trucks or other methods acceptable to the Owner.
- H. Maintain a berm, minimum of 12-inches high, around drill rigs drilling fluid mixing system, entry and exit pits and drilling fluid recycling system to prevent spills into the surrounding environment. Furnish pumping equipment and/or vacuum truck(s) of sufficient size to convey drilling fluid from containment areas, to storage and recycling facilities or disposal.

PART 3 - EXECUTION

3.1 DIRECTIONAL DRILLING OPERATION:

- A. All HDD activities shall conform to the requirements as shown on the Drawings, per ASTM F1962 and Chapter 12 of the PPI Handbook, Latest, Ed.
- B. The Contractor shall survey the entire drill path with entry and exit stakes placed in the appropriate locations within the areas indicated on drawings. If using a magnetic guidance system, survey drill path for any surface geo-magnetic variations or anomalies.
- C. It may become necessary, if so determined by the Owner, to open excavate, "pothole" or "daylight" areas to determine location of existing facilities and utilities. Costs of open cutting, "potholing" or "daylighting" are considered incidental to the work and no separate payment shall be made.

- D. Place a silt fence between all drilling operations and any drainage, well-fields, wetland, waterway or other area designated for such protection if required by documents, state, federal, and local regulations. Put in place any additional environmental protection necessary to contain any hydraulic or drilling fluid spills, including berms, liners, turbidity curtains, and other measures.
- E. Record readings after advancement of each successive drill pipe (no more than 10'), and plot on a scaled drawing of 1" = 2' vertical and 1" = 20' horizontal. Make all recorded readings and plan and profile information available at all times. At no time can the deflection radius of the drill pipe exceed the deflection limits of the carrier pipe as specified herein.
- F. Contain all drilling fluids and loose cuttings in pits or holding tanks for recycling or disposal, no fluids should be allowed to enter any unapproved areas or natural waterways. Dispose of all the drilling mud and cuttings after job completion at an approved dumpsite.
- G. Drill the pilot hole on the bore path with no deviations greater than 5% of depth over the length of the bore unless previously agreed to by the Owner. In the event that pilot does deviate from the bore path more than 5% of depth over the length of the bore, the pilot must be pulled back and re-drilled from the location along bore path before the deviation. In the event of a drilling fluid fracture, inadvertent returns, or returns loss during pilot hole drilling operations, stop drilling, wait at least 30 minutes, inject a quantity of drilling fluid with a viscosity exceeding 120 seconds as measured by a Marsh funnel and wait another 30 minutes. If mud fracture or returns loss continues, notify the Owner.
- H. The maximum size of the bore hole may not exceed Outside Diameter (O.D.) X 1.5 if O.D. is 10" or less. If the O.D. is greater than 10", the bore hole may not exceed O.D. X 1.3.
- I. Upon completion of pilot hole phase of the operation, submit a complete set of "as-built" records. Include in these records copies of the pilot bore path plan and profile record drawing, as well as directional survey reports as recorded during the drilling operation.
- J. Upon approval of the pilot hole location, begin the hole opening or enlarging phase. Increase the bore hole diameter to accommodate the pullback operation of the required size of carrier pipe. The type of hole opener or back reamer to be utilized in this phase is to be determined by the types of subsurface soil conditions that have been encountered during the pilot hole drilling operation. Select the proper reamer type with the final hole opening being a maximum of 1.5 times the largest outside diameter pipe system component to be installed in the bore hole.
- K. Stabilize the open bore hole by means of bentonite drilling slurry pumped through the inside diameter of the drill rod and through openings in the reamer. The drilling slurry must be in a homogenous/flowable state serving as an agent to carry the loose cuttings to the surface through the annulus of the borehole. Calculate the volume of bentonite mud required for each pullback based on soil conditions, largest diameter of the pipe system component, capacity of the bentonite mud pump, and the speed of pullback as recommended by the bentonite drilling fluid manufacturer. Contain the bentonite slurry at the exit or entry side of the directional bore in pits or holding tanks. The slurry may be recycled at this time for reuse in the hole opening operation, or hauled off to an approved dumpsite for proper disposal.
- L. Fuse or join all pipe sections together according to manufacturer's specifications as applicable. The pipe must be free of any chips, scratches, or scrapes.

- M. Upon Successful completion of pilot hole, Contractor will ream bore hole to a minimum diameter of 2 inches greater than outside diameter of pipe using the appropriate tools. Contractor will not attempt to ream at one time more that the boring equipment and mud system are designed to safely handle
- N. After successfully reaming the bore hole to the required diameter, the Contractor will pull the pipe through the bore hole. In front of the pipe will be a swivel. Once pull-back operations have commenced, operations must continue without interruption until pipe is completely pulled into bore hole. During pull-back operations the Contractor will not apply more than the maximum safe pipe pull pressure at any time.
 - 1. In the event that pipe becomes stuck, Contractor will cease pulling operations to allow any potential hydro-lock to subside and will commence pulling operations. If pipe remains stuck, contractor will notify Engineer. Engineer and contractor will discuss options and then work will proceed accordingly.

3.2 TESTING:

- A. Clean and flush all equipment and the surrounding site after completion. Use only potable water for flushing and pressure testing.
- B. Test directional drilling pipe after pullback for pressure and leakage rate in accordance with ASTM F2164.
- C. The maximum permissible test pressure will be determined for the lowest elevation of the test section. The maximum test pressure shall be the lower of: a) 150% of the design operating pressure; b) the pressure rating for the lowest pressure rated component of the test section.
- D. Replace any material showing seepage or the slightest leakage as directed by the Engineer and re-test at no additional cost to the Owner.
- E. After successful completion of hydrostatic test, pipe shall pigged dry.
- F. A temporary ductile plug blind flange shall be required at both ends. The blind flange shall be tapped as needed for the addition of water to pressure test and air release as needed.

3.3 RECORD KEEPING:

- A. Maintain a daily project log of drilling operations and a guidance system log with a copy available to the Owner at the completion of the project.
- B. Record the guidance system data during the actual crossing operation. Furnish "as-built" plan and profile drawings based on these recordings showing the actual location horizontally and vertically of the installation, and all utility facilities found during the installation. Certify the guidance data to the capability of the guidance System.

3.4 SITE CLEAN-UP:

- A. Immediately upon completion of pipe installation, the Contractor shall remove all of his/her drilling equipment, materials and supplies from the site of the work, remove all surplus materials and debris,
- B. All excavations will be backfilled and compacted to 95% of original density.
- C. Restore surfaces to conditions equal to or better than the condition prior to start of work. Project warranty will include reseeded where seed does not reach full coverage, replacement of landscape or existing trees damaged by construction and repair of areas that settle during the warranty period.
- D. Not more than two weeks will be allowed for this work and the Contractor shall complete all clean up within that time. Failure to comply with these requirements shall be the authority of other Contractors or workers directed by the Engineer to enter upon the site and complete the cleanup, grading, etc.

END OF SECTION 33 0523.13

NOT FOR BIDDING

SECTION 33 3000 – SANITARY SEWERAGE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS:

- A. Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.
- B. Related work specified elsewhere includes:
 - 1. Section 03 3000 – Concrete
 - 2. Section 31 2316.13 – Trenching

1.2 SUMMARY:

- A. This Section includes sanitary sewerage system, piping and appurtenances.
 - 1. In the event of conflict between this Section and Drawings, the more stringent requirements shall be provided
- B. The extent of sanitary sewerage system is indicated on the Drawings, in this Section, and as otherwise required by authorities having jurisdiction.
- C. All fees and charges for sanitary sewerage service, taps, connections, permits, impact fees, etc., shall be paid by the Contractor from the contract amount.

1.3 SUBMITTALS:

- A. General: Submit the following in accordance with Conditions of Contract and Division 01 Specification Sections.
 - 1. Product data for sanitary sewer piping and specialties.
 - 2. Shop drawings for precast concrete sanitary manholes, including frames and covers.

1.4 QUALITY ASSURANCE:

- A. Environmental Compliance: Comply with applicable portions of local environmental agency regulations pertaining to sanitary sewerage systems.
- B. Utility Compliance: Comply with local utility regulations and standards pertaining to sanitary sewerage systems.
- C. Comply with requirements of authorities having jurisdiction, when more stringent than specified or otherwise indicated.

1.5 PROJECT CONDITIONS:

- A. Site Information: Perform site survey, research public utility records, and verify existing utility locations. Verify that sanitary sewerage system piping may be installed in compliance with original design and referenced standards.

1.6 SEQUENCING AND SCHEDULING:

- A. Coordinate any connection to public sewer with utility company.
- B. Coordinate with other utility work.

PART 2 – PRODUCTS

2.1 PIPE AND FITTINGS:

- A. General: Provide pipe and pipe fitting materials compatible with each other. Where more than one type of materials or products is indicated below, refer to drawings for locations of each one.
- B. PVC Gravity Sewer and Force Main Pipe:
 - 1. PVC (Polyvinyl Chloride) Gravity Sewer Pipe: ASTM D 3034, SDR 26, Green in color, unless otherwise indicated on the Drawings.
 - 2. PVC Force Main Pipe: AWWA C200, DR 21, Class 200 plastic pipe, Green in color, unless otherwise indicated on the Drawings.
 - 3. Solvent Cement: ASTM D 2564, for pipe smaller than 2-inches.
 - 4. Gaskets: ASTM F 477, elastomeric seal, for pipe 2-inches and larger.
 - 5. Tracer Wire for PVC Force Main Pipe: 10 gauge THHN solid with electronically continuous joints. Splices shall be made with waterproof connectors.
- C. Couplings/Sleeves:
 - 1. Couplings/Sleeves used for connecting to existing laterals shall be rubber or elastomeric sleeve and stainless steel band assembly with one band at each pipe insert.
 - 2. Couplings/Sleeves used on gravity main and PVC force main shall be AWWA C153 Ductile Iron fittings with retainer glands and ceramic epoxy liner per Paragraph 2.1.D.5 below.
- D. Ductile-Iron Gravity Sewer and Force Main Pipe and Fittings:
 - 1. Pipe: ASTM A 746, for push-on joints.
 - 2. Standard Fittings: AWWA C110, ductile or gray iron, for push-on joints.
 - 3. Compact Fittings: AWWA C153, for push-on joints.
 - 4. Gaskets: AWWA C111, rubber.

5. Liner: Ceramic Epoxy liner shall be provided on all ductile iron sewer pipe and fittings. The liner shall be a two component modified polyamine ceramic epoxy applied to a dry film thickness of 40 mils minimum, and shall be Tnemec Series 431 Perma-Shield PL, Protecto 401 by Induron Protective Coatings, or pre-approved equivalent. Epoxy linings shall be inspected for holidays using an electrical detector.
 6. Mechanical joint retainer glands shall be used on all mechanical joint fittings. MJ retainer glands shall be EBAA Series 1100 MEGALUG (or approved equal) for ductile iron pipe and Series 2000PV MEGALUG (or approved equal) for C900 PVC pipe.
 7. The minimum restraint lengths for fittings are shown in a table on the plans. Concrete thrust blocks are not required at fittings if the minimum length of pipe each way of the fitting is restrained. If the minimum length is not able to be restrained, a concrete thrust block shall be poured behind the fitting.
- E. HDPE Gravity Sewer and Force Main Pipe: Provide pipe as noted below.
1. HDPE Gravity Sewer Pipe: PE 4710, DIPS, DR 13.5 as shown on the plans and provided with three (3) equally spaced pairs of green stripes. The pipe shall be grey in color to allow for televised inspection.
 2. HDPE Force Main Pipe: PE 4710, DIPS, DR 9 or DR 11 as shown on the plans and provided with three (3) equally spaced pairs of green stripes. The pipe shall be black or grey in color.
 3. Tracer Wire for HDPE Force Main Pipe: 10 gauge THHN solid, green color. The wire shall be continuous with no splices or joints permitted.
- F. PE Encasement for Water Main Crossing: ASTM A674 or AWWA C105, PE film, 0.008-inch (0.20-mm) minimum thickness, tube or sheet.
- G. External Bell Restraint Harnesses: shall be EBAA Series 1700 MEGALUG or Series 1100HD Split MEGALUG (or approved equal) for ductile iron pipe and Series 2800 MEGALUG Harness (or approved equal) for C900 PVC pipe.

2.2 MANHOLES:

- A. Precast Concrete Manholes: Manufacturers must be certified by the National Precast Concrete Association (NPCA) for production of precast concrete manholes and precast concrete structures. Reinforced precast concrete manholes conforming to ASTM C 478, of depth indicated with provision for rubber gasket joints. All manhole covers shall be round.
1. Base Section: 6-inch minimum thickness for floor slab and 4-inch minimum thickness for walls and base riser section, and having a separate base slab or base section with integral floor.
 2. Riser Sections: 4-inch minimum thickness; 48-inch diameter or as shown on plans, and lengths to provide depth indicated.
 3. Top Section: Eccentric cone type, unless concentric cone or flat-slab-top type is indicated. Top of cone to match grade rings. Minimum clear opening of 24 inches, or as indicated on the drawings.

4. Grade Rings: If necessary, provide 2 or 3 reinforced concrete rings, of 6 to 9 inches total thickness and match 24-inch diameter frame and cover.
 5. Gaskets: ASTM C 443, rubber.
 6. Steps: Reinforced plastic step with 1/2" Grade 60 steel reinforcement and polypropylene plastic exterior cast into base, riser, and top sections sidewall at 12-inch to 16-inch equally spaced intervals.
 7. Pipe Connectors: ASTM C 923, resilient, of size required, for each pipe connecting to base section. Approved connectors are listed below:
 - a. Kor-N-Seal 106/406 Series
 - b. A-Lok
 - c. Approved Equivalent
 8. Channel and Bench: Concrete.
 9. The date of manufacture and the name or trademark of the manufacturer shall be clearly marked on the inside of each precast section.
- B. Cast-in-Place Manholes (if any): Reinforced concrete of dimensions and with appurtenances indicated. All manhole covers shall be round.
1. Bottom, Walls, and Top: Reinforced concrete.
 2. Channel and Bench: Concrete.
 3. Steps: Cast into sidewall at 12- to 16-inch intervals.
- C. Concrete: Portland cement mix, 4000 psi.
1. Cement: ASTM C 150, Type II.
 2. Fine Aggregate: ASTM C 33, sand.
 3. Coarse Aggregate: ASTM C 33, crushed gravel.
 4. Water: Potable.
 5. Refer to Section 03 3000 - "Concrete" for additional information and requirements.
 6. Refer to Section 03 3010 - "Admixture for Water Retaining Structures" for additional information and requirements.
- D. Reinforcement: Steel conforming to the following:
1. Fabric: ASTM A 185, welded wire fabric, plain.
 2. Reinforcement Bars: ASTM A 615, Grade 60, deformed.
 3. Refer to Section 03 3000 - "Concrete" for additional information and requirements.
- E. Steps: Same as for precast concrete manholes.

2.3 CLEANOUTS:

- A. General: Provide cast-iron ferrule and countersunk brass cleanout plug, with round cast-iron access frame and heavy-duty, secured, scoriated cast-iron cover.
- B. Provide products by one of the following manufacturers:
 - 1. Ancon, Inc.
 - 2. Josam Co.
 - 3. Smith (Jay R.) Mfg. Co.
 - 4. Wade Div.; Tyler Pipe.
 - 5. Zurn Industries, Inc.; Hydromechanics Div.
 - 6. Approved Equivalent

2.4 GATE VALVES:

- A. Gate valves shall be iron body, brass mounted, epoxy coated interior and exterior, and be of the resilient seat type. Gate valves shall have a non-rising stem, "O ring" stem seal, a 2" square operating nut and shall open by turning counterclockwise.
- B. Gate valves thru 12" diameter shall be manufactured in accordance with AWWA C515. Gate valves 12" and smaller shall be suitable for a working pressure of 200 psig and shall be tested to 400 psig.
- C. Gate valves larger than 12" diameter shall conform to AWWA C515. Gate valves larger than 12" shall be suitable for a working pressure of 250 psig and shall be tested to 300 psig.
- D. Approved manufacturers and models:
 - 1. American Series 2500
 - 2. Mueller A-2361
 - 3. M&H Style 7571
 - 4. Approved equivalent

2.5 AIR RELEASE VALVE ASSEMBLY:

- A. Combination air release valves shall have a stainless steel body and shall be tested to the requirements of AWWA C512.
- B. Approved manufacturers and models:
 - 1. ARI D-020-ST
 - 2. Crispin UX20
 - 3. Approved equivalent
- C. The amount bid for the air release valve assembly shall include all costs related to a tap in the force main, the combination air valve, five (5) foot diameter precast manhole enclosure and lid, 2" isolation valve, 2" stainless steel piping, valve marker, and related site work and cleanup. The valve shall be installed in accordance with the detail given in the plans. The general location of the combination air valve assemblies are shown on the plans, but the exact locations will be verified in the field by the Owner's representative.

2.6 PIPELINE IDENTIFICATION:

- A. Plastic Underground Warning Tapes: Polyethylene plastic tape with metallic core, 3 inches wide by 5 mils thick, solid green in color with continuously printed caption in black letters "CAUTION - SEWER LINE BURIED BELOW." Tape shall be used for marking all installed sanitary sewer pipe and shall be buried no less than 18-inches above the carrier pipe.
- B. Provide products by one of the following manufacturers:
 - 1. Pro-Line Safety Products
 - 2. Allen Systems, Inc.; Reef Industries, Inc.
 - 3. Brady (W.H.) Co.; Signmark Div.
 - 4. Calpico, Inc.
 - 5. Carlton Industries, Inc.
 - 6. EMEDCO, Inc.
 - 7. Seton Name Plate Co.
 - 8. Approved Equivalent
- C. The cost for the marker tape is to be included in the amount bid for the pipe.

PART 3 - EXECUTION

3.1 PREPARATION OF FOUNDATION FOR BURIED SANITARY SEWERAGE SYSTEMS:

- A. Grade trench bottom to provide a smooth, firm, stable, and rock-free foundation, throughout the length of the pipe.
- B. Remove unstable, soft, and unsuitable materials at the surface upon which pipes are to be laid, and backfill with clean sand or gravel to indicated level.
- C. Shape bottom of trench to fit bottom of pipe. Fill unevenness with tamped sand backfill. Dig bell holes at each pipe joint to relieve the bells of all loads and to ensure continuous bearing of the pipe barrel on the foundation.

3.2 PIPE APPLICATIONS FOR UNDERGROUND SANITARY SEWERS:

- A. Refer to Paragraph 2.1 above.

3.3 PIPE & MANHOLE INSTALLATION:

- A. General Locations and Arrangements: Drawings (plans and details) indicate the general location and arrangement of the underground sanitary sewerage system piping. Location and arrangement of piping layout take into account many design considerations. Install the piping as indicated, to the extent practical.
- B. Install gravity piping beginning at low point of systems, true to grades and alignment indicated with unbroken continuity of invert. Place bell ends of piping facing upstream. Install gaskets, seals, sleeves, and couplings in accordance with manufacturer's recommendations for use of

lubricants, cements, and other installation requirements. Maintain swab or drag in line and pull past each joint as it is completed.

- C. Use manholes for changes in direction, except where a fitting is indicated. Use fittings for branch connections, except where direct tap into existing sewer is indicated.
- D. Use proper size increasers, reducers, and couplings, where different size or material of pipes and fittings are connected. Reduction of the size of piping in the direction of flow is prohibited.
- E. Install piping pitched down in direction of flow, at slopes indicated on the drawings.
- F. Extend sanitary sewerage system piping to connect to building sanitary drains, of sizes and in locations indicated.
- G. Tunneling: Install pipe under streets or other obstructions that cannot be disturbed, by tunneling, jacking, or a combination of both.

3.4 PIPE JOINT CONSTRUCTION AND INSTALLATION:

- A. Join and install PVC pipe as indicated in Part 2 above, and the following:
 - 1. Solvent cement joint pipe and fittings, joining with solvent cement in accordance with ASTM D 2855 and ASTM F 402.
 - 2. Pipe and gasketed fittings, joining with elastomeric seals in accordance with ASTM D 3212, and for truss pipe ASTM D 2680, Appendix XI.
 - 3. Installation in accordance with ASTM D 2321.
- B. Join and install ductile iron pipe as indicated in Part 2 above.

3.5 MANHOLES:

- A. General: Install manholes complete with accessories as indicated, or if not indicated, in compliance with project requirements and authorities having jurisdiction. Form continuous concrete or split pipe section channels and benches between inlets and outlet. Set tops of frames and covers flush with finish surface where manholes occur in pavements. Elsewhere, set tops 3 inches above finish surface, unless otherwise indicated.
 - 1. Place precast concrete manhole sections as indicated, and install in accordance with ASTM C 891.
 - 2. Construct cast-in-place manholes as indicated.
 - 3. Provide rubber joint gasket complying with ASTM C 443 at joints of sections.
 - 4. Install manhole steps as indicated.

3.6 CLEANOUTS:

- A. Install cleanouts and extension from sewer pipe to cleanout at grade as indicated. Set cleanout frame and cover in concrete block 18" x 18" x 12" deep, except where location is in concrete

paving. Set top of cleanout 1 inch above surrounding earth grade or flush with grade when installed in paving.

- B. Install cleanouts with a maximum spacing of 100 feet on service laterals, or as otherwise indicated on the plans.

3.7 TAP CONNECTIONS:

- A. Make connections to existing piping and underground structures so that finished work will conform as nearly as practicable to the requirements specified for new work.
- B. Use commercially manufactured wye fittings for piping branch connections. Remove section of existing pipe, install wye fitting into existing piping, and encase entire wye fitting plus 6-inch overlap, with not less than 6 inches of 3000-psi 28-day compressive-strength concrete.
- C. Make branch connections from side into existing 4- to 21-inch piping by removing section of existing pipe and installing wye fitting, into existing piping. Encase entire wye with not less than 6 inches of 3000-psi 28-day compressive-strength concrete.
 - 1. Provide concrete that will attain minimum 28-day compressive strength of 3000 psi, unless otherwise indicated.
 - 2. Use epoxy bonding compound as interface between new and existing concrete and piping materials.
- D. Protect existing piping and structures to prevent concrete or debris from entering while making tap connections. Remove debris, concrete, or other extraneous material that may accumulate.

3.8 INSTALLATION OF PIPELINE IDENTIFICATION:

- A. Install continuous plastic underground warning tape during back-filling of trench for underground sanitary sewer piping. Locate 18 inches directly above crown of pipe.

3.9 FIELD QUALITY CONTROL:

- A. Air Testing. Perform testing of completed sewer piping in accordance with the procedures below:
 - 1. All gravity sewers shall be tested using low pressure air as directed by the Engineer. The air test shall be conducted by the contractor, and the cost of the testing shall be included in the cost of the pipe.
 - 2. The air tests shall be conducted after a section of line is completed and backfilled. The equipment used for conducting the test shall be specifically designed for this purpose.
 - 3. All pneumatic plugs shall be seal tested before used in the actual test installation. One length of pipe shall be laid on the ground and sealed at both ends with the pneumatic plugs to be checked. Air shall be introduced into the plugs to 25 psig. The sealed pipe shall be pressurized to 5 psig. The plugs shall hold against this pressure without bracing and without movement of the plugs out of the pipe.
 - 4. After a manhole reach of pipe has been backfilled and cleaned, and the pneumatic plugs

are checked by the above procedure, the plugs shall be placed in the line at each manhole and inflated to 25 psig. Low pressure air shall be introduced into this sealed line until the internal air pressure reaches 4 psig greater than the average back pressure of any groundwater that may be over the pipe. At least two minutes shall be allowed for the air pressure to stabilize.

5. After the stabilization period (3.5 psig minimum pressure in the pipe), the air hose from the control panel to the air supply shall be disconnected. The portion of line being tested shall be termed "Acceptable" if the time required in minutes for the pressure to decrease from 3.5 to 3.0 psig (greater than the average back pressure of any groundwater that may be over the pipe) shall not be less than the time shown for the given diameters in the following table:

MINIMUM TIME FOR LENGTH SHOWN					
PIPE SIZE	100 FT	200 FT	300 FT	400 FT	SECONDS PER ADD'L LENGTH
4	1.53	1.53	1.53	1.53	0.190
6	2.50	2.50	2.50	2.51	0.427
8	3.47	3.47	3.48	5.04	0.760
10	4.43	4.43	5.56	7.54	1.187
12	5.40	5.42	8.33	11.24	1.709
15	7.05	8.54	13.21	18.48	2.673
18	8.50	12.49	19.14	25.38	3.846
21	9.55	17.27	26.11	34.54	5.235
24	11.24	22.48	34.11	45.35	6.837
27	14.25	28.51	43.16	57.42	8.653

MINIMUM PRESSURE SHALL BE 3.5 PSIG AND .4329 PSIG ADDED FOR EACH FOOT OF GROUNDWATER ABOVE THE PIPE INVERT. MAXIMUM PRESSURE SHALL BE 9.0 PSIG.

6. In areas where groundwater is known to exist, the Contractor shall install a one-half inch diameter capped pipe nipple, approximately 10" long, through the manhole wall on top of one of the sewer lines entering the manhole. This shall be done at the time the sewer line is installed. Immediately prior to the performance of the Line Acceptance Test, the groundwater shall be determined by removing the pipe cap, blowing air through the pipe nipple into the ground so as to clear it, and then connecting a clear plastic tube to the nipple. The hose shall be held vertically and a measurement of the height in feet of water

over the invert of the pipe shall be taken after the water has stopped rising in this plastic tube. The height in feet shall be divided by 2.3 to establish the pounds of pressure that will be added to all readings. (For example, if the height of water is 11-1/2 feet, then the added pressure will be 5 psig. This increases the 3.5 psig to 8.5 psig, and the 2.5 psig to 7.5 psig. The allowable drop of one pound and the timing remain the same.)

7. If any line section fails the pressure test, the Contractor shall at his expense, determine the cause of the failure, correct any defects, and retest the line section until a satisfactory test is accomplished.

B. Mandrel Testing:

1. A nine-armed mandrel shall be hand pulled through all PE and PVC gravity sewer pipe after the pipe has been backfilled for at least 60 days. The maximum allowable deflection of the pipe shall be not more than 5 percent of the base diameter. Any pipe that deflects in excess of 5 percent shall be corrected and relayed at the contractor's expense. All costs related to the mandrel testing and correcting any deficiencies found shall be included in the price bid for the pipe.

C. Manhole Testing: Perform testing of completed sewer manholes in accordance with one (1) of the procedures below:

1. **Manhole Exfiltration Test.** All manholes constructed shall be watertight and show no visible sign of infiltration, and shall be tested in accordance with this Specification. The test shall be conducted by the Contractor in coordination with and at the direction of the Engineer. All incoming and outgoing sewer lines shall be plugged and the manhole filled with water to a level above the highest section joint. If the water level drop exceeds 1/8" per vertical foot of manhole depth in 5 minutes, the manhole shall have failed the test.
2. **Manhole Vacuum Test.** The test shall be conducted by the Contractor in coordination with and at the direction of the Engineer. The manhole shall be tested, after assembly, as follows: All pipe openings shall be sealed by installing suitable plugs that completely isolate the manhole structure; any other openings, such as lifting holes, shall be permanently sealed. A suitable vacuum pump shall be connected to the manhole, and a vacuum of 10" of Hg drawn. The pump shall then be isolated from the manhole by valving, and the test period begun. The test shall be successful if the vacuum remains at 9" of Hg or greater according to the following table:

<u>Manhole Diameter</u>	<u>Time minimum (sec)</u>
48"	60
60"	75
72"	90
84"	105
96"	120

3. All manholes which fail the test or that have visible leaks, even if they pass the test, shall be repaired or replaced at the expense of the Contractor until the manholes pass the test, to the complete satisfaction of the Engineer. Manholes which have any visible leaks will not be accepted.

D. Force Main Testing:

1. The force main shall be hydrostatic tested at 120 psi for a minimum of 3 continuous hours, with no allowable leakage. A chart recorder shall be used to track the pressure reading throughout the test. Should the test fail, the Contractor shall make the necessary repairs and repeat the test until satisfactory results are achieved.
 2. Water for testing will be purchased by the Contractor at the current rate.
- E. Cleaning: Clear interior of piping and structures of dirt and other superfluous material as work progresses. Maintain swab or drag in piping and pull past each joint as it is completed.
1. In large, accessible piping, brushes and brooms may be used for cleaning.
 2. Place plugs in ends of uncompleted pipe at end of day or whenever work stops.
 3. Flush piping between manholes, if required by local authority, to remove collected debris.
- E. Interior Inspection: Inspect piping to determine whether line displacement or other damage has occurred.
1. Make inspections after pipe between manholes and manhole locations has been installed and approximately 2 feet of backfill is in place, and again at completion of project.
 2. If inspection indicates poor alignment, debris, displaced pipe, infiltration or other defects correct such defects, and re-inspect.
 3. Televised inspection shall be done on all installed gravity sewer lines, in accordance with Section 33 0130.16.

END OF SECTION 33 3000

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