# SEWERAGE AND WATER BOARD OF NEW ORLEANS



## CONTRACT NO. 5255 SOLICITATION NO. 2025-SWB-55

## SUPPORT REPAIR / REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D

PROPOSALS DUE ON
August 8, 2025 AT 11:00 A.M., CENTRAL TIME

#### SEWERAGE & WATER BOARD OF NEW ORLEANS SUPPORT REPAIR / REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D CONTRACT NO. 5255 SOLICITATION NO. 2025-SWB-55

Sealed Bids for construction of 2025-SWB-55 Contract 5255 SUPPORT REPAIR / REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D.

Bid Documents and proposal forms are available for download on July 2, 2025, at the following websites:

SWBNO: <a href="https://www2.swbno.org/business">https://www2.swbno.org/business</a> bidspecifications.asp

LAPAC: https://wwwcfprd.doa.louisiana.gov/OSP/LaPAC/dspBid.cfm?search=department&term=181

A NON-MANDATORY pre-bid conference will be held on July 17, 2025, at 11:00 a.m. Central Time at the Sewerage and Water Board of New Orleans, Purchasing Conference Room RM 131, located at 625 St Joseph St., New Orleans, Louisiana, 70165 or if you are unable to attend this in-person meeting, you can also join via teleconference call:

## **Microsoft Teams**

## Join the meeting now

Meeting ID: 282 479 685 006 2

Passcode: LD37UG3M **Dial in by phone** 

+1 504-224-8698,,697671800# United States, New Orleans

Phone conference ID: 697 671 800#

All inquiries shall be directed to Connor Metcalf, Procurement Analyst, at cmetcalf@swbno.org. The deadline for inquiries is on July 21, 2025, at 5:00 p.m. Central Time.

Bids are due on August 8, 2025, at 11:00 a.m. Any Bids received after the specified time will be rejected.

Bids will then be publicly opened and read on **August 8, 2025, at 11:30 a.m.** at Sewerage and Water Board of New Orleans, 625 St. Joseph Street, Purchasing Conference Room 131, New Orleans, Louisiana.

## **Microsoft Teams**

## Join the meeting now

Meeting ID: 269 886 321 239 0

Passcode: WJ2KX7T6

Dial in by phone

+1 504-224-8698,,954828128# United States, New Orleans

Phone conference ID: 954 828 128#

LATE BIDS WILL NOT BE ACCEPTED.

#### INSTRUCTIONS TO BIDDERS

#### 1. DEFINED TERMS

- 1.1. 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:
  - 1.1.1. *Issuing Office*—The office from which the Bidding Documents are to be issued and where the bidding procedures are to be administered: Sewerage and Water Board of New Orleans, 625 St. Joseph Street, Procurement Department Room 133, New Orleans, Louisiana 70165.

#### COPIES OF BIDDING DOCUMENTS

- 2.1. Complete sets of the Bidding Documents are available in electronic form on the Sewerage & Water Board of New Orleans website:

  <a href="https://www2.swbno.org/business\_bidspecifications.asp">https://www2.swbno.org/business\_bidspecifications.asp</a> (Click on Doing Business, then Advertisements & Specifications) Reproduction costs for any of the downloaded electronic Bidding Documents shall be borne by the Contractor.
- 2.2. Complete sets of Bidding Documents shall be used in preparing Bids. Neither Owner nor Engineer assumes responsibility for errors or misinterpretations resulting from use of incomplete sets of Bidding Documents.
- 2.3. Drawings included in the Bidding Documents are electronic .pdf files generated from electronic drawing files. Any reduction from actual size is indicated by a note or scale bar on Drawing.
- 2.4. Owner and Engineer, in making 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 or grant for any other use.

#### 3. QUALIFICATIONS OF BIDDERS

- 3.1. In order to perform public work, Bidder and its Subcontractors, prior to award of Contract or as otherwise required by the jurisdiction, shall hold or obtain such licenses as required by State Statutes, and federal and local Laws and Regulations.
- 3.2. Bidder is advised to carefully review those portions of the Bid Form requiring representations and certifications.
- 4. EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA, AND SITE
- 4.1. Subsurface and Physical Conditions:

- 4.1.1. The Supplementary Conditions identify:
  - 4.1.1.1. Those reports known to Owner of explorations and tests of subsurface conditions at or contiguous to the Site.
  - 4.1.1.2. Those drawings known to Owner of physical conditions relating to existing surface and subsurface structures at the Site.
- 4.1.2. Copies of reports and drawings referenced will be made available by Owner to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Bidder is entitled to rely as provided in Paragraph 4.02 of the General Conditions has been identified and established in Paragraph 4.02 of 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. Costs associated with making available copies of reports and drawings shall be borne by Bidder.
- 4.2. Underground Facilities: Information and data shown or indicated in the Bidding Documents with respect to existing Underground Facilities at or contiguous to the Site is based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner or others.
- 4.3. Hazardous Environmental Condition:
  - 4.3.1. The Supplementary Conditions identify reports and drawings known to Owner relating to a Hazardous Environmental Condition identified at the Site.
  - 4.3.2. Copies of reports and drawings referenced will be made available by Owner to any Bidder on request. Those reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Bidder is entitled to rely as provided in Paragraph 4.06 of the General Conditions has been identified and established in Paragraph 4.06 of 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. Costs associated with making available copies of reports and drawings shall be borne by Bidder.
- 4.4. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to subsurface conditions, other physical conditions, and Underground Facilities, and possible changes in the Bidding Documents due to differing or unanticipated subsurface or physical conditions appear in Paragraphs 4.02 through 4.04 of the General Conditions. Provisions concerning responsibilities for the adequacy of data furnished to prospective Bidders with respect to a Hazardous Environmental Condition at the Site, if any, and possible changes in the Contract Documents due to any Hazardous Environmental

Condition uncovered or revealed at the Site which was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work, appear in Paragraph 4.06 of the General Conditions.

- 4.5. On request, Owner will provide each Bidder access to the Site to conduct such examinations, investigations, explorations, tests, and studies as Owner deems necessary for submission of a Bid. 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. Bidder shall comply with all applicable Laws and Regulations relative to excavation and utility locates.
- 4.6. Related Work at Site: Reference is made to the General Requirements for identification of the general nature of other work that is to be performed at the Site by Owner or others (such as utilities and other prime contractors) that relates to the Work contemplated by these Bidding Documents. On request Owner will provide to each Bidder for examination, access to Contract Documents (other than portions thereof related to price) for such other work.
- 4.7. Safety: Paragraph 6.13.C of the General Conditions indicates that if an Owner safety program exists, it will be noted in the Supplementary Conditions.
- 4.8. It is responsibility of each Bidder before submitting a Bid to:
  - 4.8.1. Examine and carefully study the Bidding Documents, other related data identified in the Bidding Documents, and any Addenda.
  - 4.8.2. Visit the Site to become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
  - 4.8.3. Become familiar with to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
  - 4.8.4. Carefully study all information provided and referenced in plans and specifications.
  - 4.8.5. Consider the information known to Bidder; 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.
  - 4.8.6. Agree at the time of submitting its Bid that 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(s) Bid and within the times required, and in accordance with the other terms and conditions of the Bidding Documents.

- 4.8.7. 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.
- 4.8.8. Promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in Bidding Documents and confirm that written resolution thereof by Engineer is acceptable to Bidder.
- 4.8.9. Determine Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance of the Work.
- 4.9. Submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of this article; that without exception the Bid is premised upon performing and furnishing the Work required by Bidding Documents and applying specific means, methods, techniques, sequences, and procedures of construction that may be shown or indicated or expressly required by Bidding Documents; that Bidder has given Engineer written notice of all conflicts, errors, ambiguities, and discrepancies that Bidder has discovered in Bidding Documents and the written resolutions thereof by Engineer are acceptable to Bidder; and that Bidding Documents are generally sufficient to indicate and convey understanding of terms and conditions for performing and furnishing the Work.
- 5. SPECIAL PRODUCT REQUIREMENTS
- 5.1. Bidder's attention is directed to the Supplementary Conditions, Paragraph 6.03.
- 6. PREBID CONFERENCE

A **NON-MANDATORY** pre-bid conference will be held on **July 17, 2025, at 11:00 a.m.** Central Time at the Sewerage and Water Board of New Orleans, Purchasing Conference Room RM 131, located at 625 St Joseph St., New Orleans, Louisiana, 70165 or if you are unable to attend this in-person meeting, you can also join via teleconference call:

## **Microsoft Teams**

## Join the meeting now

Meeting ID: 282 479 685 006 2 Passcode: LD37UG3M

Dial in by phone

+1 504-224-8698,,697671800# United States, New Orleans

Phone conference ID: 697 671 800#

6.1. Representatives of Owner and Engineer will be present to discuss the Project. Bidders are required to attend and participate in the conference. An award will be issued to Bidders that have a representative at the pre-bid conference. Procurement will transmit to 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.

#### 7. SITE AND OTHER AREAS

7.1. The Site is identified in the Bidding Documents. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner, unless otherwise provided in the Bidding Documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the Work are to be obtained and paid for by Contractor.

#### 8. INTERPRETATIONS AND ADDENDA

- 8.1. All questions about the meaning or intent of the Bidding Documents are to be submitted to Connor Metcalf, Procurement Specialist, Cmetcalf@swbno.org. Interpretations or clarifications considered necessary by Engineer in response to such questions will be issued by Addenda sent to all parties recorded by the office issuing documents as having received the Bidding Documents. Questions received after July 21, 2025 at 5:00 p.m. may not be answered. Only questions answered by Addenda will be binding. Oral and other interpretations or clarifications will be without legal effect.
- 8.2. Addenda may also be issued to clarify, correct, or change the Bidding Documents as deemed advisable by Owner or Engineer.
- 8.3. Addenda issued in response to questions will be issued no later than 72 hours prior to bid opening.

#### 9. BID SECURITY

- 9.1. Bid shall be accompanied by Bid security made payable to Owner in an amount of 5 percent of Bidder's maximum Bid price and in the form of a certified check, bank money order, or a Bid bond (on the attached form), issued by a surety meeting the requirements of Paragraph 5.01 and Paragraph 5.02 of the General Conditions.
- 9.2. Upon Notice of Award of the Contract, the Bid security of all bidders, other than the lowest two (2) formal bidders will be returned upon request. The return of the Bid security to whom the Contract is awarded is conditioned upon the successful bidder furnishing the insurance required in the specifications and appearance before the Notary for the Sewerage and Water Board of New Orleans within ten (10) consecutive calendar days after notice by the Executive Director or designee of the award of the contract and executing the contract and furnishing bond for the faithful fulfillment thereof according to the attached specifications. The Bid security of the next lowest bidder will be returned as soon as the successful bidder has executed the Contract and furnished bond upon request. If all bid proposals are rejected, all Bid security will be returned immediately upon request.

9.3. Bid security of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within 7 days after Bid opening upon request.

#### 10. CONTRACT TIMES

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

#### 11. LIQUIDATED DAMAGES

11.1. Provisions for liquidated damages, if any, are set forth in the Agreement.

#### 12. SUBSTITUTE AND "OR-EQUAL" ITEMS

12.1. The Contract, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute or "or-equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to Engineer, application for such acceptance will not be considered by Engineer until after the Effective Date of the Agreement.

#### 13. WAGE RATES

- 13.1. The Work under these Bidding Documents is to be paid for by public funds; therefore, minimum prevailing wage rates published by the Secretary of the U.S. Department of Labor (see appended rate tables). Refer to Attachment #5 of the Supplementary Conditions for more information.
- 13.2. The successful bidder is to make available to the Board, complete records in connection with payment of employees during the term of the job in order to permit the Internal Audit Division to check as to adherence to the wage scale presently in effect in accordance with U.S. Government standards.

#### 14. PREPARATION OF BID

- 14.1. With each electronic copy of the Bidding Documents, Bidder will be furnished one separate Bid Form, and, if applicable, the Bid Bond Form. Contractor is to print and complete all pertinent documents included as the Original Form of Proposal.
- 14.2. All blanks on the Bid Form shall be completed by typing or printing with 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 Bid item, unit price item, and alternate listed therein.
- 14.3. A Bid by a corporation shall be executed in the corporate name by the president or a vice president or other corporate officer accompanied by evidence of authority to sign. The

corporate seal shall be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation shall be shown.

- 14.4. A Bid by a partnership shall be executed in the partnership name and signed by a partner (whose title must appear under the signature), accompanied by evidence of authority to sign. The official address of the partnership shall be shown.
- 14.5. A Bid by a limited liability company shall be executed in the name of the firm by a member 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.
- 14.6. A Bid by a joint venture shall be executed by each joint venturer in the manner indicated on the Bid Form. The official address of the joint venture shall be shown.
- 14.7. All names shall be typed or printed in ink below the signatures.
- 14.8. The Bid shall contain an acknowledgement of receipt of all Addenda; the numbers of which shall be filled in on the Bid Form.
- 14.9. Postal and e-mail addresses and telephone number for communications regarding the Bid shall be shown.
- 14.10. 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 and class, if applicable, shall also be shown on the Bid Form.
- 15. BASIS OF BID; COMPARISON OF BIDS

#### 15.1. Lump Sum:

- 15.1.1. Bidders shall submit a Bid on a lump sum basis as set forth in the Bid Form.
- 15.1.2. Bidders shall submit a Bid on a lump sum basis for the base Bid and include a separate price for each alternate described in the Bidding Documents as provided for in the Bid Form. The price for each alternate will be the amount added to or deleted from the base Bid if Owner selects the alternate. In the comparison of Bids, alternates will be applied in the same order as listed in the Bid Form.

#### 15.2. Unit Price:

15.2.1. Bidders shall submit a Bid on a unit price basis for each item of Work listed in the Unit Price Bid Table.

- 15.2.2. The total of all prices will be the sum of the products of the estimated quantity of each item and the corresponding unit price. The final quantities and Contract Price will be determined in accordance with Paragraph 11.03 of the General Conditions.
- 15.2.3. 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.

#### 15.3. Alternates:

- 15.3.1. Alternates requiring pricing in the Bid Form are described in Section 01 11 01, Summary of Work, and in the Bid Form, if applicable.
- 15.3.2. Indicate in Bid Form the amount to be added or subtracted from the base Bid for alternates described.
- 15.3.3. Include cost of all related work, including modifying surrounding work to integrate the Work of each alternate.
- 15.3.4. Alternates listed on Bid Form will be reviewed and accepted or rejected at Owner's option. Accepted alternates will be identified in the Agreement if applicable.

#### 16. SUBMISSION OF BID

- 16.1. The Bidders are to complete and submit the following documents at bid submission:
  - 16.1.1. Louisiana Uniform Public Work Bid Form is to be completed
  - 16.1.2. Bid Security or Bid Bond.
  - 16.1.3. Corporate Resolution or Written Evidence of Authority
- 16.2. The two (2) lowest bidders will have three (3) working days following the bid opening to submit the following:
  - 16.2.1. Additional Requirements, Bidder Declaration, Guarantees, and Emergency Procedures Document
  - 16.2.2. Attestation Affidavit Form
  - 16.2.3. Voluntary Extension
  - 16.2.4. Affidavit of Non-Collusion
  - 16.2.5. Conflict of Interest Disclosure Affidavit

- 16.2.6. Convicted Felon Affidavit
- 16.2.7. Non-Solicitation Affidavit
- 16.2.8. EDBP Summary Sheet and Acknowledgment Form

16.3. A Bid shall be submitted no later than the date and time prescribed, and at the place indicated in the Invitation to Bid. Enclose Bid in a plainly marked package with the Project title (and, if applicable, the designated portion of the Project for which the Bid is submitted), name and address of Bidder, and 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.

#### **Hard Copy Submission:**

Signed hardcopy of the bid in a sealed envelope

Mark the front envelope with the following: Solicitation # 2025-SWB-55 Company Name Company Address Company Contact Name, Phone Number, and Email Address Contractor's License Number

Address envelope to: Sewerage and Water Board of New Orleans Attn: Connor Metcalf 625 St. Joseph St. Rm 133 New Orleans, LA 70165

Fax and email submission will not be accepted.

#### Mail or courier specifications:

The Bidder remains responsible for ensuring that the bid is delivered prior to the submission deadline with a proof of delivery. Failure to meet the submission deadline, irrespective of the mode of delivery, shall result in the rejection of the bid.

- Bid documents should be contained in a sealed envelope and be placed in the shipping envelope or box. If the mailed bid is not contained in a separate sealed envelope, the bidder takes the risk that the envelope may be inadvertently opened and the information compromised.
- Please add the Procurement Analyst's name in the Attention Line of the shipping label to ensure proper delivery.
- 16.4. In accordance with LRS 37:2163, Bidders are required to certify they hold an active Contractor's license and indicate license number on Bid envelope. Bid envelopes received

with no Contractor license number will not be opened and will automatically be rejected and considered nonresponsive.

#### 17. OPENING OF BIDS

Bids will be opened on August 8, 2025 at 11:30 a.m. at Sewerage and Water Board of New Orleans, 625 St. Joseph Street, Purchasing Conference Room 131, New Orleans, Louisiana and unless obviously nonresponsive, read aloud publicly. The amounts of the base Bids and major alternates, if any, will be made available to Bidders after the opening of Bids. The bid opening will also be available via teleconference:

## **Microsoft Teams**

## Join the meeting now

Meeting ID: 269 886 321 239 0

Passcode: WJ2KX7T6

Dial in by phone

+1 504-224-8698,,954828128# United States, New Orleans

Phone conference ID: 954 828 128#

#### 18. BIDS TO REMAIN SUBJECT TO ACCEPTANCE

18.1. 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.

#### 19. EVALUATION OF BIDS AND AWARD OF CONTRACT

- 19.1. Pursuant to Louisiana Statute 38:2225, a resident Bidder shall be allowed a preference over a nonresident Bidder from a state which gives or requires a preference to Bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident Bidder.
- 19.2. Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced or conditional Bids. Owner further reserves the right to reject the Bid of any Bidder whom it finds, after reasonable inquiry and evaluation, to not be responsible. Owner may also reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder.

19.3. In evaluating Bids, Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices, and other data, as may be requested in the Bid Form or prior to the Notice of Award.

#### 20. NOTARIAL FEE.

20.1. The Contract and Bond shall be signed in the City of New Orleans, before the Notary for the Sewerage and Water Board of New Orleans, by the Contractor in person or by a duly authorized representative. The notarial fee for the execution of the contract shall be paid by the Contractor in accordance with the Notarial Fee Schedule below. The Fee Schedule is subject to change, and Contractor is responsible for any deviations from this Fee Schedule. Contractor shall also be responsible for payment of all recordation costs and photocopying at the rate of \$0.50 per page. All affidavits of acceptance or substantial completion are \$70.00 plus actual recordation costs.

#### NOTARIAL FEE SCHEDULE

Notarial work for all Sewerage and Water Board of New Orleans construction contracts, requiring to be notarized:

<b>Contract Value</b>	<u>Fee</u>
Under \$1,000.00	\$227.00
\$1,000.00 to \$49,999.99	\$423.00
\$50,000.00 to \$499,999.99	\$1,073.00
\$500,000.00 to \$999,999.99	\$2,304.00
\$1,000,000.00 or over	\$4,608.00

#### 21. CONTRACT SECURITY AND INSURANCE

21.1. Article 5 of the General Conditions, as may be modified by the Supplementary Conditions, sets forth Owner's requirements as to bonds and insurance. When Successful Bidder delivers executed Agreement to Owner, it shall be accompanied by such bonds.

#### 22. SIGNING OF AGREEMENT

- 23.1 The proposal submitted by the staff-recommended bidder will be tentatively selected by the appropriate Sewerage and Water Board Committee meeting The final award of the contract will be made at the subsequent Board meeting. All prices bid must be held firm for 120 days or until final award of contract by the Board.
- 23.2 After submittal of required Insurance and Bonds, in form acceptable to the Sewerage and Water Board of New Orleans, the selected Bidder will be authorized by the Executive Director of the Board to appear before the Notary to sign the contract within ten (10) consecutive calendar days from the date of the notice.

#### 23. SALES AND USE TAXES

24.1 Applicable state and local sales and use taxes for purchase of materials and supplies furnished under this contract shall be paid by the Contractor. Such taxes shall be included in the lump sum bid for the work of this contract. The board shall be relieved of any obligation to pay these taxes.

#### 24. RETAINAGE

24.1. Provisions concerning retainage and Contractor's rights to deposit securities in lieu of retainage, if applicable, are set forth in the Agreement.

#### 25. BID PROTESTS

25.1. Any formal protest which is to be made by an aggrieved Proposer must be submitted in writing to the Procurement Director, Cashanna K. Moses at <a href="mailto:cmoses@swbno.org">cmoses@swbno.org</a> according to Sewerage and Water Board of New Orleans Policy 83(R): Procedural Rules for Bid Appeals.

#### **END OF SECTION**

#### LOUISIANA UNIFORM PUBLIC WORK BID FORM

**BID FOR:** Contract 5255

TO: Sewerage and Water Board of New Orleans Purchasing Department, Room 133 625 St. Joseph St

Support Repair/Reinforcement of South Crane Rails at Station D New Orleans, LA 70165

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: \_\_\_\_SWBNO\_ and dated: 2/19/25 Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following ADDENDA: (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" \* but not alternates) the sum of: ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description. **Alternate No. 1** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of: \_\_\_\_\_Dollars (\$ \_\_\_\_\_) **Alternate No. 2** (Owner to provide description of alternate and state whether add or deduct) for the lump sum of: **NOTE TO BIDDERS:** (Insert Applicable Notes if Alternates are required) NAME OF BIDDER: ADDRESS OF BIDDER: LOUISIANA CONTRACTOR'S LICENSE NUMBER: NAME OF AUTHORIZED SIGNATORY OF BIDDER: TITLE OF AUTHORIZED SIGNATORY OF BIDDER: SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER \*\*: DATE:

#### THE FOLLOWING ITEMS ARE TO BE INCLUDED WITH THE SUBMISSION OF THIS LOUISIANA **UNIFORM PUBLIC WORK BID FORM:**

- \* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.
- \*\* A CORPORATE RESOLUTION OR WRITTEN EVIDENCE of the authority of the person signing the bid for the public work as prescribed by LA R.S. 38:2212(B)(5).

BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA R.S. 38:2218(A) attached to and made a part of this bid.

## LOUISIANA UNIFORM PUBLIC WORK BID FORM <u>UNIT PRICE FORM</u>

TO: Sewerage and Water Board of New Orleans
Purchasing Department, Rm 133
625 St. Joseph St
New Orleans, LA 70165

BID FOR: Contract 5255
Support Repair/Reinforcement of
South Crane Rails at Station D

**UNIT PRICES:** This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	⊠ Base Bid or ☐ Alt.# Mobilization and demobilization insurance and bonds complete in every detail and all inclusive				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
1	1	Lump Sum			
	T				
DESCRIPTION:	☑ Base Bid or ☐	Alt.# Dust and debris cor	ntrol		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
2	1	Lump Sum			
DESCRIPTION:	☑ Daga Did am □	1 Alt # Enhances and dalive	er steel assemblies to reinforce	no milastono	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
3	1	Lump Sum			
DESCRIPTION:	Base Bid or □	Alt.# Installation of pilas	ter steel reinforcement assem	blies	
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
4	1	Lump Sum			
DESCRIPTION:	DESCRIPTION:   ☐ Base Bid or ☐ Alt.# Provide and install grout				
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
5	1	Lump Sum			
DESCRIPTION:	▼ Rose Rid or □	Alt.# Rail bolt and Bea	m halt installation		
		_			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
6	1	Lump Sum			
DESCRIPTION:	■ Base Bid or □	Alt.# Paint			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
7	1	Lump Sum			
DESCRIPTION:	■ Base Bid or	Alt.# Miscellaneous item	s and installation		
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION (Quantity times Unit Price)	
8	1	Lump Sum			

Wording for "DESCRIPTION" is provided by the Owner.

All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner

#### 1-2 ADDITIONAL REQUIREMENTS

All blank spaces in this Proposal section shall be filled. A bid price shall be indicated for each bid item. Bids received without all such items completed will be considered non-responsive. The bid shall contain an acknowledgement of receipt of all Addenda in space provided. The Louisiana Uniform Public Work Bid Form & Unit Price Form (if applicable) and the amount of Deposit or Bid Bond five percent (5%) of the total amount of the proposal is REQUIRED to be submitted in a sealed envelope on bid opening date. The two (2) lowest numerical bidders have three (3) days after the bid opening (exclusive of Saturdays, Sundays and Holidays) to submit any additional information such as (Voluntary Extension Sheet, Affidavit, Economically Disadvantage Business Summary Sheet if applicable) as well as requirements of Sections 1-3 through 1-6 below. Failure to do so will render the bid non-responsive.

1-3 BIDDER DEC	LARATION
than the one her any connection with a without collusion or fr New Orleans or any of	the only person interested in this proposal and that no other person rein named have any interest herein or in the contract proposed to be taken; that it is made without my other person or persons making proposal for the same work and that it is in all respects fair and aud; also that no member of the Sewerage and Water Board or of the City Council of the City of afficer or employee of the City of New Orleans or of the several boards thereof, who are by law pation herein, and directly or indirectly interested herein or in furnishing bond or in any portion of
do hereby	also declare that have LOUISIANA CONTRACTOR'S LICENSE in the field of
	with NUMBER
furnished, and persona and apparatus and other for by the plans, necess	declare that have carefully examined the annexed specifications and the drawings ally inspected the ground and that will contract to provide the necessary tools, machinery or means of construction, and to furnish all labor and material specified in this contract or called sary to complete the work in the manner specified and within the time mentioned in the ording to the requirements of the Engineer, as herein set forth.
submitted with the bid	with Louisiana Revised Statute 38:2227 the following affidavit shown on the next page must be, or no later than 3 days after the bid opening (excluding Saturdays, Sundays, and Holidays). Ender the bid non-responsive. <b>Please note, THE AFFIDAVIT MUST BE NOTARIZED.</b>
1-5 <u>GUARANTE</u>	<u>ES</u>
[90] calendar days	guarantee that the whole of the work under this contract will be substantially completed within after the date of the "Commencement of Contract Times."
hereby agree to pay, as	completion of the contract beyond the contract time of completion as determined by the Board sliquidated damages, the sum of <b>Two Thousand Dollars (\$2,000.00)</b> for each calendar day of idated damages shall become due by the mere elapsing of the delay without the necessity of default.
1-6 <u>EMERGENC</u>	Y PROCEDURES
Contractor must furnis	h telephone numbers for routine or emergency telephone calls.
<u>NAME</u>	<u>TITLE</u>
TELEPHONE NO.: NORMAL CALLS	
EMERGENCY	

## STATE OF LOUISIANA PARISH OF ORLEANS

## **AFFIDAVIT**

personall			ualified and sworn in and for the State and Parish aforesaid, who after being duly sworn, did depose and say as			
1)	He/she is the	(title) of	(company);			
2)	He/she has not been convict listed in Louisiana Revised	ed of, or has entered a plea of guilty or n Statute 38:2227, specifically: public brib- ness record, false accounting, issuing wo	olo contendere to any of the crimes, or equivalent federal crimes, ery, corrupt influencing, extortion, money laundering, theft, rthless checks, bank fraud, forgery, contractors misapplication of			
3)	The contracting entity, person or corporation whose principal(s), member(s), and /or Officer(s) have, within the preceding 5 years, n been convicted or plead guilty to, a felony under state or federal statutes, for embezzlement, theft of public funds, bribery, falsification destruction of public records; (City Code Section 2-8)					
4)		dividual partners, incorporators, directors ip interest in the bidding entity:	, managers, officers, organizers, or members who have a minimu			
		(name)	(name)			
		(name)	(name)			
		(name)	(name)			
5)	No other persons hold an ov	vnership interest in the bidding entity via	a counter letter.			
6)	minimum ten percent intere any of the crimes, or equiva influencing, extortion, mono	st ownership in the bidding entity, been clent federal crimes, listed in Louisiana R	s, managers, officers, organizers, or members, who has a convicted of, or has entered a plea of guilty or nolo contendere to evised Statute 38:2227, specifically: public bribery, corrupt f a business record, false accounting, issuing worthless checks, cance in office.			
7)	He/she is not delinquent on Section 2-8)	any taxes owed the City of New Orleans	or fees/charges to the Sewerage and Water Board. (City Code			
The	following sections apply onl	y to Public Works Contracts:				
8)	system" of the Illegal Immi	gration Reform and Immigrant Responsib	herein is registered and participates in the "Status verification bility Act of 1996, 8 U.S.C. 1324(a), known as the "E-Verify" al citizens of the United States or are legal aliens.			
9)	The entity represented here status of all new employees		ontract, to utilize a status verification system to verify the legal			
10)	The entity represented hereithe Status verification systems	_	nit to the contractor a sworn affidavit verifying compliance with			
WITNES	SSES:					
			IANT			
			IANI			
SWORN	TO AND SUBSCRIBED BE	FORE ME ON THIS				
	DAY OF	, 20				
	NOTARY PUBLIC		Notary Id. No. or Bar Roll No.			
			•			
PLEASE	PRINT NAME OF NOTA	RY				

## **VOLUNTARY EXTENSIONS OF THE AWARD**

If this bid is determined to be the lowest responsive and responsible bid, Bidder agrees to bid extension of the award date by up to two (2) thirty (30) day periods in accordance with the provisions of Louisiana Revised Statue. Title 38, Section 2215 (A).
AGREED:
NAME OF BIDDER (TYPE OR PRINT)
SIGNATURE OF BIDDER
COMPANY NAME
* * * FND OF SECTION * * *

## **BID BOND**

Any singular reference to Bidder, Surety, Owner, or oth	ner party shall be considered plural where applicable.
BIDDER (Name and Address):	
SURETY (Name and Address of Principal Place of Bus	siness):
OWNER (Name and Address):	
BID	
Bid Due Date: Project (Brief Description Including Location):	
BOND	
Bond Number: Date (Not later than Bid due date):	
Penal sum	
(Words)	(Figures)
Surety and Bidder, intending to be legally bound hereby do each cause this Bid Bond to be duly executed on its	
BIDDER	SURETY
(Seal) Bidder's Name and Corporate Seal	(Seal) Surety's Name and Corporate Seal
-	
By:Signature and Title	By:
Attest: Signature and Title	Attest:Signature and Title

Note: Above addresses are to be used for giving required notice.

- 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 Surety's liability.
- 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, consented to by Surety when required by Paragraph 5 hereof).
- 4. Payment under this Bond will be due and payable upon default by Bidder and within 30 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 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 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.

**END OF SECTION** 

## **CONVICTED FELON AFFIDAVIT**

STATE (	OF	
PARISH	/COUNTY OF	-
E	Before me, the undersigned authority, cam	e and appeared,
who, bei	ing first duly sworn, deposed and said that	:
1. He/S	She is the	and authorized representative of
		, hereafter called "Contractor."
2. The	Contractor complies with City Code Section	on 2-8 (c) for the City of New Orleans.
3. No C	Contractor principal, member, or officer h	as, within the preceding five years, been convicted of, or
pled gui	lty to, a felony under state or federal sta	tutes for embezzlement, theft of public funds, bribery, or
falsificat	tion or destruction of public records.	
		Proposer Representative (Signature)
		(Print or type name) (Address)
Sworn to	o and subscribed before me, in (CITY/STA	ATE)
This	day of (MONTH)	, 20
_	Notary Public	<u> </u>
_	Notary Identification No./Bar Roll No.	_

## **NON-SOLICITATION AFFIDAVIT**

STATE OF			
PARISH/COUNT	ГҮ ОF		
Before me	e, the undersigned authority, came a	and appeared	,
who, bein	g first duly sworn, deposed and said	d that:	
1.	He/She is the		and
	authorized representative of		hereafter called "Contractor."
2.	The Contractor has not employed of	or retained ar	ny company or person, other than a bona fide
	employee working solely for Co	entractor, to	solicit or secure the subject contract. The
	Contractor has not paid or agree	d to pay any	y person, other than a bona fide employee
	working for Contractor, any fee,	commission,	percentage, gift, or any other consideration
	contingent upon or resulting from	the subject of	contract.
			Contractor Representative (Signature)
			(Print or type name) (Address)
Sworn to and sub	escribed before me, in		, Louisiana,
thisday of		, 20	
	Notary Public		

Notary Identification No./Bar Roll No.

## **NON-COLLUSION AFFIDAVIT**

STATE OF	
PARISH/COUNTY OF	
, being fir	est duly sworn, deposes and says that:
(1) S/He is (Owner) (Partner) (Office) (Representati	ve) or (Agent), of:
the Proposer that has submitted the attached Prop	posal:
(2) Such Proposal is genuine and is not a collusive o	or sham Proposal:
interest, including this affiant, has in any way collud other Proposer, firm or person to submit a collusive attached Proposal has been submitted or to refrain fr manner, directly or indirectly sought by agreement of Proposer, or to fix any overhead, profit or cost elements	partners, owners, agents, representatives, employees or parties of led, conspired, connived or agreed, directly, or indirectly with any or sham proposal in connection with the Contract for which the comproposing in connection with such contract, or has in any or collusion or communication or conference with any other ent of the proposal price or the proposal price of any other t the Sewerage and Water Board of New Orleans of any person
. ,	sal are fair and proper and are not tainted by any collusion, ne part of the Proposer or any of its agents, representatives, this affiant.
Proposer Representative (Signature)	Title
(Print or type name)	-
SWORN TO AND SUBSCRIBED BEFORE ME	
THIS DAY OF	20 Notary ID#/Bar Roll #
NOTARY PUBLIC (Signature)	NOTARY PUBLIC (Print Name)

## CONFLICT OF INTEREST DISCLOSURE AFFIDAVIT

STATE OF		_	
PARISH/COUNTY OF		_	
Before me, the undersigned sworn, deposed and said that	• • • • • • • • • • • • • • • • • • • •		who, being first duly
	and aut	horized representative o	of
Hereafter called "Bidder."	,		
connection with this solicit including any familial or principals have with the Boat (If a conflict(s) of interest ex	ation which might impair R business relationships that the rd officials or employees.	espondent's ability to ne Respondent, the presence in a letter the nature of	t exist/may exist (circle one) in perform if awarded the contract, roposed subcontractors, and their of the conflict, the parties involved
	Respondent Representati	ve (Signature)	_
	(Print or type name)		-
	(Address)		-
SWORN TO AND SUBSCETHISDAY OF		0	
NOTARY PUBLIC (Signa	iture)	NOTARY PUB	BLIC (Print Name)
Notary ID#/Bar Roll#			

## **BIDDERS'S ORGANIZATION**

<u>AN INDIVIDUAL</u>			
Individual's Name:			
Doing business as:			
Address:			
Telephone No.:			
<u>A PARTNERSHIP</u>			
Firm Name:			
Address:			
Name of person authorized to sign:			
Title:			
Telephone No.:			
A LIMITED LIABILITY COMPANY			
Company Name:			
Address:			
Name of person authorized to sign:			
Title:			
Telephone No.:	Fax No.:	Email:	

## **A CORPORATION**

IF PROPOSAL IS BY A CORPORATION, THE CORPORATE RESOLUTION MUST BE SUBMITTED WITH PROPOSAL.

## **CORPORATE RESOLUTION**

A meeting of the Board of Directors of	a corporation organized
under the laws of the State of	and domiciled in
was held thisday,20 and	d was attended by a quorum of the
members of the Board of Directors.	
The following resolution was offered, duly seconded and a	fter discussion was unanimously
adopted by said quorum:	
BE IT RESOLVED, that	is hereby
authorized to submit proposals and execute agreements or	behalf of this corporation
with the Sewerage and Water Board of New Orleans.	
BE IT FURTHER RESOLVED, that said authorization an	d appointment shall remain in full force
and effect, unless revoked by resolution of this Board of	Directors and that said revocation will
not take effect until the Procurement Director of the Boar	d, shall have been furnished a copy of
said resolution, duly certified.	
I,, hereby certify that I am the Secretary of	, a corporation created under the
laws of the State of _domiciled in;that the foregoing is	a true and exact copy of a resolution
adopted by a quorum of the Board of Directors of said corp	poration at a meeting legally called and
held on the day of, as said resolution	on appears of record in the Official
Minutes of the Board of Directors in my possession.	
Thisday of, 20	
SECRETA	RY

## ECONOMICALLY DISADVANTAGED BUSINESS PARTICIPATION SUMMARY SHEET

Minimum Percentage Goal Participation for this Contract is \_\_\_\_\_%

Contract Name and Number #	

Name and Address of Disadvantaged Business Enterprise Company	Name of Contact Person	Scope of Work to be Performed	Dollar Amount of work to be performed	Percentage of Dollar Amount to Total Bid Price

THIS FORM MUST BE COMPLETED AND SUBMITTED AT THE TIME OF BID/PROPOSAL SUBMISSION. FAILURE TO SUBMIT A COMPLETED FORM WILL RENDER THE BID/PROPOSAL NON-RESPONSIVE.

NOTE: Signature required even if judged NOT APPLICABLE by the BIDDER

Prime Representative Name:	Prime Signature:
Prime Company's Name:	Date:
Prime Address:	E-mail:
	Telephone Number:

Revised October 30, 2024

## **ACKNOWLEDGEMENT**

## PRIME CONTRACTOR AND DBE SUBCONTRACTOR

Solicitation:	
This form acknowledges that the	
Prime	
and	
DBE Subcontractor	Certification: SLDBE or LAUCP
have agreed to the following terms of serv	ice:
Scope of Work:	
Please note: Scope of work sh	ould describe the agreed upon terms between the Prime and DBE.
DBE Percentage of Total Contract:	
Dollar Amount of DBE Work: \$	
	ne Contractor and DBE Subcontractor affirm that it mated total dollar value stated. Both parties hereby ein is true and correct.
	TED WITH SIGNATURES WILL RENDER BID/PROPOSAL N-RESPONSIVE.
PRIME CONTRACTOR:	
Printed Name:	
Signature:	
Date:	
DBE SUBCONTRACTOR:	
Printed Name:	
Signature:	
Date:	

#### **AGREEMENT**

THIS AGREEMENT is by and between the <u>Sewerage and Water Board of New Orleans</u>		
(Owner) and		
	_(Contractor)	

Owner and Contractor, in consideration of the mutual covenants set forth herein, agree as follows:

#### 1. WORK

- 1.1. Contractor shall complete the Work as specified or indicated in the Contract Documents. The Work is generally described as follows:
  - 1.1.1. Reinforcing the south crane rail and rail beam support system at Station D (2800 Peoples Avenue). This includes controlling dust and debris, surface prep, permanent pilaster steel reinforcement bracket assembly installation, grout work, rail to runway beam fastening, rail splice connection and runway beam to pilaster and wall anchorage Define Scope.

#### 2. THE PROJECT

2.1. The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows: Contract 5255

#### 3. ENGINEER

3.1. The Project has been designed by **APEC** (Designer), who is to act as the Engineer-of-Record under the oversight and administration of the Owner's Representative.

#### 4. CONTRACT TIMES

- 4.1. Time of the Essence: 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.
- 4.2. Days to Achieve Substantial Completion and Final Payment:
  - 4.2.1. The Work shall be substantially completed within 90 calendar days from the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions, and completed and ready for

final payment in accordance with Paragraph 14.07 of the General Conditions within 90 calendar days after the date when the Contract Times commence to run.]

#### 4.3. Liquidated Damages:

4.3.1. Should the Contractor fail to commence or start the work within the time allotted or fail to complete individual phases of the work within the times allotted for said individual phases, the Contractor shall pay to the Board the sum of \$2,000 liquidated damages for each calendar day beyond the times specified. If unforeseen circumstances are encountered at the work site, the Contractor may request in writing an extension in days for the completion of work. If granted, the extension of time must be approved in writing by the Engineer and submitted with the invoice.

#### 4.4. Night, Weekend, or Holiday Work

4.4.1. Night, weekend or holiday work which requires the presence of an engineer or inspector will not be permitted except in cases of emergency or by permission of the Engineer. Except in cases of emergency, all requests for night, weekend or holiday work shall be submitted in writing at least seven calendar days prior to the work being performed. Any approved night, weekend or holiday work requires prior written authorization from the Engineer

#### 5. CONTRACT PRICE

5.1. Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to the prices stated in Contractor's Bid attached hereto as an exhibit.

#### 6. PAYMENT PROCEDURES

- 6.1. Submittal and Processing of Payments: Contractor shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.
- 6.2. Progress Payments and Retainage: Owner will make progress payments on account of the Contract Price on the basis of Contractor's Application for Payment on the date of each month as established in the preconstruction conference during performance of the Work as provided herein. All such payments will be measured by the Schedule of Values established as provided in Paragraph 2.07 of 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 in the General Requirements.

- 6.2.1. 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 Engineer may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with Paragraph 14.02 of the General Conditions:
  - 6.2.1.1. Ninety-five percent of Work completed for contracts in the amount of \$500,000.00 or greater (with the balance being retainage). Ninety percent of Work completed for contracts in an amount less than \$500,000.00 (with the balance being retainage).
- 6.2.2. In accordance with Louisiana Statute 38:2249, Contractor may withdraw up to the entire retained amount if they deposit an equal amount in a Certificate of Deposit issued by a commercial bank or savings and loan located in Louisiana.
- 6.2.3. In accordance with Louisiana Statute 38:2248.A, retainage will be released within 45 days of Final Acceptance by the SWBNO Board of Directors.
- 6.2.4. Upon Substantial Completion, Owner will pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts as Engineer will determine in accordance with Paragraph 14.02.B.5 of the General Conditions and less 200 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate of Substantial Completion.

#### 6.3. Final Payment:

6.3.1. Upon final completion and acceptance of the Work in accordance with Paragraph 14.07 of the General Conditions, Owner will pay the remainder of the Contract Price as recommended by Engineer as provided in Paragraph 14.07.

#### 7. CONTRACTOR'S REPRESENTATIONS

- 7.1. Contractor makes the following representations:
  - 7.1.1. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

- 7.1.2. Contractor has visited the Site 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.
- 7.1.3. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- 7.1.4. Contractor has carefully studied: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities) if any, which have been identified in Paragraph 4.02 of the Supplementary Conditions as containing reliable "technical data", and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site which have been identified in Paragraph 4.06 of the Supplementary Conditions as containing reliable "technical data."
- 7.1.5. Contractor has considered the information known to Contractor; 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 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, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Contract Documents; and 3) Contractor's safety precautions and programs.
- 7.1.6. Based on the information and observations referred to above, Contractor does not consider that any further examinations, investigations, explorations, tests, studies, 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 Documents.
- 7.1.7. 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.
- 7.1.8. Contractor has given Engineer written notice of conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- 7.1.9. The Contract Documents are generally sufficient to indicate and convey understanding of terms and conditions for performance and furnishing of the Work.

#### 8. CONTRACT DOCUMENTS

#### 8.1. Contents:

- 8.1.1. The Contract Documents that are attached to this Agreement (except as expressly noted otherwise) consist of the following:
  - 8.1.1.1. This Agreement.
  - 8.1.1.2. Performance bond.
  - 8.1.1.3. General Conditions
  - 8.1.1.4. Supplementary Conditions
  - 8.1.1.5. Specifications as listed in the table of contents
  - 8.1.1.6. Drawings consisting of <u>7</u> sheets with each sheet bearing the following general title: "<u>SUPPORT REPAIR/REINFORCEMENT OF</u> <u>SOUTH CRANE RAILS AT STATION D</u>".
  - 8.1.1.7. Addenda
- 8.1.2. Exhibits to this Agreement (enumerated as follows):
  - 8.1.2.1. Contractor's Bid.
- 8.1.3. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
  - 8.1.3.1. Notice to Proceed.
  - 8.1.3.2. Work Change Directives.
  - 8.1.3.3. Change Order(s).
- 8.2. There are no Contract Documents other than those listed above in this Article.
- 8.3. The Contract Documents may only be amended, modified, or supplemented as provided in Paragraph 3.04 of the General Conditions.

#### 9. MISCELLANEOUS

- 9.1. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.
- 9.2. Successors and Assigns: Owner and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners,

successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

9.3. Severability: Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree 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.

#### 9.4. Assignment of Contract:

9.4.1. No assignment by a party hereto of any rights under or interests in the Contract shall be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, monies that may become due and monies that are 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 shall release or discharge the assignor from any duty or responsibility under the Contract Documents.

#### 9.5. Contractor's Certifications:

- 9.5.1. 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:
  - 9.5.1.1. "corrupt practice" means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process or in Contract execution;
  - 9.5.1.2. "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 Price at artificial noncompetitive levels, or (c) to deprive Owner of the benefits of free and open competition;
  - 9.5.1.3. "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, noncompetitive levels; and
  - 9.5.1.4. "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.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement in triplicate. One counterpart each has been delivered to Owner, Contractor, and Engineer. All portions of the Contract Documents have been signed or identified by Owner and Contractor or on their behalf.

This Agreement will be effective on, 2 Agreement).	20 (which is the Effective Date of the		
OWNER:	CONTRACTOR:		
By:	By:		
Title:	Title:		
[CORPORATE SEAL]	[CORPORATE SEAL]		
Attest:	Attest: Title:		
Title: Address for giving notices:	Address for giving notices:		
(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	License No(Where applicable)  Agent for service or process:		
authorizing execution of this Agreement.)	(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)		

# **END OF SECTION**

# PAYMENT AND PERFORMANCE BOND

Bond No.:	
KNOW ALL PERSONS BY THESE PRESENT called the "Principal"), and the "Surety"), are held and firmly bound unto	, as surety, (hereinafter called
ofDollars (\$ bind themselves, jointly and severally, as prov	) for the payment whereof said Principal and Surety
WHEREAS, the Principal has entered into a C perform construction work for	Contract with Obligee dated, to("Contract")

NOW, THEREFORE, the condition of this obligation is such that if Principal shall promptly and faithfully perform the Construction Work to be performed under the Contract, and shall promptly make payment to Claimants, as hereinafter defined, for all labor and material actually used, consumed or incorporated in the performance of the Construction Work under the Contract, then this obligation shall be null and void; otherwise to remain in full force and effect.

Surety's obligations hereunder to Obligee shall not arise unless Principal is in default under the Contract for failing to perform the Construction Work and has been declared by Obligee to be in default under the Contract for failing to perform the Construction Work; and Obligee has performed its obligations under the Contract. In such event, Surety shall have a reasonable period of time to:

- 1. Upon entering into an acceptable written takeover agreement with Obligee, undertake to perform and complete the Construction Work to be done under the Contract; or
- 2. Obtain bids or negotiated proposals from qualified contractors for a contract for completion of the Construction Work to be done under the Contract, arrange for a contract to be prepared for execution by Obligee and contractor, to be secured with performance and payment bonds executed by a qualified surety; or
- 3. Waive its right to perform or complete the Construction Work pursuant to paragraphs 1 and 2 above, and with reasonable promptness under the circumstances: (a) After investigation, determine the amount for which it may be liable to the Obligee and, as soon as practicable after the amount is determined, tender payment therefor to the Obligee; or (b) Deny liability in whole or in part and notify the Obligee citing reasons therefor.
- 4. The Contract balance, as defined below, shall be credited against the reasonable construction cost of completing the Construction Work to be performed under the Contract. If completed by Obligee pursuant to paragraphs 2 or 3 above, and the reasonable construction cost of completing the Construction Work exceeds the Contract balance, Surety shall pay to Obligee such excess, but in no event shall the aggregate liability of Surety exceed the amount of this bond. If Surety completes the work pursuant to paragraph 1 above, that portion of the Contract balance as may be required to complete the Construction Work to be done under the Contract and to reimburse Surety for its outlays shall be paid to Surety at the times and in the manner as said sums would have been payable to Principal had there been no default under the Contract. To the extent that Surety's outlays exceed the Contract

balance paid to Surety by Obligee, Surety shall be entitled to a dollar for dollar reduction of its liability under this bond, and Surety's aggregate liability shall not exceed the penal sum of this bond. The term "Contract balance" as used herein shall mean the total amount payable by Obligee under the Contract and any amendments thereto, less the amounts properly paid by Obligee to Principal under the Contract. The term "Construction Work" as used herein shall mean the providing of all labor and/or material necessary to complete Principal's scope of work under the Contract. Notwithstanding any language in the Contract to the contrary, the Contract balance shall not be reduced or set off on account of any obligation, contractual or otherwise, except the reasonable construction cost incurred in completing the Construction Work.

- 5. Any suit by Obligee under this bond must be instituted before the earlier of: (a) the expiration of one year from the date of substantial completion of the Construction Work, or (b) one year after Principal ceased performing the Construction Work, excluding warranty work. If the public works bond statutes in the location where the Construction Work is being performed contains a statute of limitations for suits on the performance bond, then the limitation period set forth herein shall be read out of this bond and the statute of limitation set forth in the public works bond statutes shall be read into this bond. If the limitation set forth in this bond is 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, and said period of limitation shall be deemed to have accrued and shall commence to run no later than (y) the date of substantial completion of the Construction Work, or (z) the date Principal ceased performing Construction Work, excluding warranty work, whichever occurs first.
- 6. A Claimant is defined as one other than Obligee having a contract with Principal or with a direct subcontractor of Principal to supply labor and/or materials and said labor and/or material is actually used, consumed or incorporated in the performance of the Construction Work under the Contract.
- 7. Principal and Surety hereby jointly and severally agree with Obligee that every Claimant as herein defined who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such Claimant's work or labor was done or performed or materials were furnished by such Claimant, may bring suit on this bond, prosecute the suit to final judgment for the amount due under Claimant's contract for the labor and/or material supplied by Claimant which was actually used, consumed or incorporated in the performance of the Construction Work, and have execution thereon; provided, however, that a Claimant having a direct contractual relationship with a subcontractor of Principal shall have a right of action on this bond only if said Claimant notifies Surety in writing of its claim within ninety (90) days from the date on which said Claimant did or supplied the last labor and/or materials for which the claim is made. Obligee shall not be liable for the payment of any costs or expenses of any such suit.
- 8. No suit or action shall be commenced hereunder by any Claimant after the expiration of the earlier of: (a) one year after the day on which Claimant last supplied the labor and/or materials for which the claim is made; or (b) the limitation period set forth in the public works bond statutes, if any, in the location where the construction work is being performed. Any limitation contained in this bond which is prohibited by any law controlling in the state where the suit is filed shall be deemed to be amended so as to be equal to the minimum period of limitation permitted by the law of that state, and said period of limitation shall be deemed to have accrued and shall commence to run on the day Claimant last supplied the labor and/or materials for which the claim is made.
- 9. No suit or action shall be commenced hereunder by Obligee or any Claimant other than in a state court of competent jurisdiction in the county or other political subdivision of the state in which the project,

or any part thereof, is situated, or in the United States District Court for the district in which the project, or any part thereof, is situated, and not elsewhere.

- 10. The amount of this bond shall be reduced by and to the extent of any payment or payments made by Surety in good faith hereunder whether made directly to Obligee or Claimant(s) or otherwise in discharge of Principal's obligations. Surety's liability hereunder to Obligee and all Claimants is limited, singly, or in the aggregate, to the penal sum of the bond set forth herein. Surety may, at its option, discharge all obligations under this bond by interpleading into the registry of any court of competent jurisdiction of the full unused penal sum of this bond, or such portion thereof that will satisfy the obligations owed to Obligee and/or Claimant(s). No right of action shall accrue on this bond to any person or entity other than Obligee and/or Claimant(s). The bond shall not afford coverage for any liability of Principal for tortious acts, whether or not said liability is direct or is imposed by the Contract and shall not serve as or be a substitute for or supplemental to any liability or other insurance required by the Contract.
- 11. This bond is provided to comply with all statutory (including but not limited to La. R.S. 38:2216 and La. R.S. 38:2219) or other legal requirement for performing construction contracts for public owners in the location where the construction work is being performed. Except as provided in paragraphs 5 and 8 above, all provisions in the bond which are in addition to or differ from those statutory or legal requirements shall be read out of this bond, and all pertinent statutes and other legal requirements shall be read into the bond. This bond is a statutory bond, not a common law bond.

Signed this	day of	, 20		
			(Principal)	
		Ву:		
			(Surety)	
		Ву:	, Atto	orney-in-Fact

# PAYMENT BOND

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

CONTRACTOR (Name and Address):	SURETY (Name, and Address of Principal Place of Business):
OWNER (Name and Address):	
CONTRACT Effective Date of Agreement: Amount: Description (Name and Location):	
BOND Bond Number: Date (Not earlier than Effective Date of Agreement): Amount: Modifications to this Bond Form:	
Surety and Contractor, intending to be legally bound her this Payment Bond to be duly executed by an authorized	
CONTRACTOR AS PRINCIPAL	SURETY
Company:	
Signature:(Seal)	(Seal
Name and Title	Surety's Name and Corporate Seal
	Ву:
	Signature and Title
	(Attach Power of Attorney)
(Space is provided below for signatures of additional parties, if required.)	
	Attest:
	Signature and Title
CONTRACTOR AS PRINCIPAL	SURETY
Company:	
Signature: (Seal)	(Seal
Name and Title	Surety's Name and Corporate Seal
	By:
	Signature and Title
	(Attach Power of Attorney)
	Attest:
	Signature and Title

- 1. Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors, and assigns to Owner to pay for labor, materials, and equipment furnished by Claimants for use in the performance of the Contract, which is incorporated herein by reference.
- 2. With respect to Owner, this obligation shall be null and void if Contractor:
  - 2.1. Promptly makes payment, directly or indirectly, for all sums due Claimants, and
  - 2.2. Defends, indemnifies, and holds harmless Owner from all claims, demands, liens, or suits alleging non-payment by Contractor by any person or entity who furnished labor, materials, or equipment for use in the performance of the Contract, provided Owner has promptly notified Contractor and Surety (at the addresses described in Paragraph 12) of any claims, demands, liens, or suits and tendered defense of such claims, demands, liens, or suits to Contractor and Surety, and provided there is no Owner Default.
- 3. With respect to Claimants, this obligation shall be null and void if Contractor promptly makes payment, directly or indirectly, for all sums due.
- 4. Surety shall have no obligation to Claimants under this Bond until:
  - 4.1. Claimants who are employed by or have a direct contract with Contractor have given notice to Surety (at the addresses described in Paragraph 12) and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and, with substantial accuracy, the amount of the claim.
  - 4.2. Claimants who do not have a direct contract with Contractor:
    - 1. Have furnished written notice to Contractor and sent a copy, or notice thereof, to Owner, within 90 days after having last performed labor or last furnished materials or equipment included in the claim stating, with substantial accuracy, the amount of the claim and the name of the party to whom the materials or equipment were furnished or supplied, or for whom the labor was done or performed; and
    - 2. Have either received a rejection in whole or in part from Contractor, or not received within 30 days of furnishing the above notice any communication from Contractor by which Contractor had indicated the claim will be paid directly or indirectly; and

- 3. Not having been paid within the above 30 days, have sent a written notice to Surety and sent a copy, or notice thereof, to Owner, stating that a claim is being made under this Bond and enclosing a copy of the previous written notice furnished to Contractor.
- 5. If a notice by a Claimant required by Paragraph 4 is provided by Owner to Contractor or to Surety, that is sufficient compliance.
- 6. Reserved.
- 7. Surety's total obligation shall not exceed the amount of this Bond, and the amount of this Bond shall be credited for any payments made in good faith by Surety.
- 8. Amounts owed by Owner to Contractor under the Contract shall be used for the performance of the Contract and to satisfy claims, if any, under any performance bond. By Contractor furnishing and Owner accepting this Bond, they agree that all funds earned by Contractor in the performance of the Contract are dedicated to satisfy obligations of Contractor and Surety under this Bond, subject to Owner's priority to use the funds for the completion of the Work.
- 9. Surety shall not be liable to Owner, Claimants, or others for obligations of Contractor that are unrelated to the Contract. Owner shall not be liable for payment of any costs or expenses of any Claimant under this Bond, and shall have under this Bond no obligations to make payments to, give notices on behalf of, or otherwise have obligations to Claimants under this Bond.
- 10. Surety hereby waives notice of any change, including changes of time, to the Contract or to related Subcontracts, purchase orders and other obligations.
- 11. No suit or action shall be commenced by a Claimant under this Bond other than in a court of competent jurisdiction in the location in which the Work or part of the Work is located or after the expiration of one year from the date (1) on which the Claimant gave the notice required by Paragraph 4.1 or Paragraph 4.2.3, 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.

- 12. Notice to Surety, Owner, or Contractor shall be mailed or delivered to the addresses shown on the signature page. Actual receipt of notice by Surety, Owner, or Contractor, however accomplished, shall be sufficient compliance as of the date received at the address shown on the signature page.
- 13. When this Bond has been furnished to comply with a statutory requirement in the location where the Contract was to be performed, any provision in this Bond conflicting with said statutory requirement shall be deemed deleted herefrom and provisions conforming to such statutory requirement shall be deemed incorporated herein. The intent is that this Bond shall be construed as a statutory Bond and not as a common law bond.
- 14. Upon request of any person or entity appearing to be a potential beneficiary of this Bond, Contractor shall promptly furnish a copy of this Bond or shall permit a copy to be made.

#### 15. Definitions:

- 15.1. Claimant: An individual or entity having a direct contract with Contractor, or with a first-tier subcontractor of Contractor, to furnish labor, materials, or equipment for use in the performance of the Contract. The intent of this Bond shall be to include without limitation in the terms "labor, materials or equipment" that part of water, gas, power, light, heat, oil, gasoline, telephone service, or rental equipment used in the Contract, architectural and engineering services required for performance of the Work of Contractor and 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.
- 15.2. Contract: The agreement between Owner and Contractor identified on the signature page, including all Contract Documents and changes thereto.
- 15.3. Owner Default: Failure of Owner, which has neither been remedied nor waived, to pay Contractor as required by the Contract or to perform and complete or comply with the other terms thereof.

FOR INFORMATION ONLY - Name, Address and Telephone
Surety Agency or Broker:
Owner's Representative (engineer or other party):

END OF SECTION

# **GENERAL CONDITIONS**

# **TABLE OF CONTENTS**

		Page
ARTICLE 1	– DEFINITIONS AND TERMINOLOGY	1
1.01	Defined Terms	
1.02	Terminology	
ARTICLE 2	PRELIMINARY MATTERS	4
2.01	Delivery of Bonds and Evidence of Insurance	
2.02	Copies of Documents	
2.03	Commencement of Contract Times; Notice to Proceed	
2.04	Starting the Work	
2.05	Before Starting Construction	
2.06	Preconstruction Conference; Designation of Authorized Representatives	
2.07	Initial Acceptance of Schedules	
ARTICLE 3	- CONTRACT DOCUMENTS: INTENT, AMENDING, REUSE	5
3.01	Intent	
3.02	Reference Standards	
3.03	Reporting and Resolving Discrepancies	
3.04	Amending and Supplementing Contract Documents	
3.05	Reuse of Documents	
3.06	Electronic Data	
ARTICLE 4	– AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS	
E	NVIRONMENTAL CONDITIONS; REFERENCE POINTS	7
4.01	Availability of Lands	7
4.02	Subsurface and Physical Conditions	7
4.03	Differing Subsurface or Physical Conditions	7
4.04	Underground Facilities	8
4.05	Reference Points	9
4.06	Hazardous Environmental Condition at Site	9
ARTICLE 5	– BONDS AND INSURANCE	10
5.01	Performance, Payment, and Other Bonds	10
5.02	Licensed Sureties and Insurers	11
5.03	Certificates of Insurance	11
5.04	Contractor's Insurance	11
5.05	Owner's Liability Insurance	12
5.06	Property Insurance	12
5.07	Waiver of Rights	
5.08	Receipt and Application of Insurance Proceeds	13
5.09	Acceptance of Bonds and Insurance; Option to Replace	14
5.10	Partial Utilization, Acknowledgment of Property Insurer	14
ARTICLE 6		
6.01	Supervision and Superintendence	
6.02	Labor; Working Hours	
6.03	Services, Materials, and Equipment	
6.04	Progress Schedule	
6.05	Substitutes and "Or-Equals"	15

6.06	Concerning Subcontractors, Suppliers, and Others	
6.07	Patent Fees and Royalties	
6.08	Permits	
6.09	Laws and Regulations	
6.10	Taxes	
6.11	Use of Site and Other Areas	
6.12	Record Documents	
6.13	Safety and Protection	
6.14	Safety Representative	
6.15	Hazard Communication Programs	
6.16	Emergencies	
6.17	Shop Drawings and Samples	
6.18	Continuing the Work	
6.19	Contractor's General Warranty and Guarantee	
6.20	Indemnification	
6.21	Delegation of Professional Design Services	22
ARTICLE 7	OTHER WORK AT THE SITE	
7.01	Related Work at Site	
7.02	Coordination	
7.03	Legal Relationships	23
ARTICLE 8	- OWNER'S RESPONSIBILITIES	23
8.01	Communications to Contractor	23
8.02	Replacement of Engineer	
8.03	Furnish Data	24
8.04	Pay When Due	24
8.05	Lands and Easements; Reports and Tests	24
8.06	Insurance	24
8.07	Change Orders	24
8.08	Inspections, Tests, and Approvals	24
8.09	Limitations on Owner's Responsibilities	
8.10	Undisclosed Hazardous Environmental Condition	
8.11	Evidence of Financial Arrangements	
8.12	Compliance with Safety Program	24
ARTICLE 9	– ENGINEER'S STATUS DURING CONSTRUCTION	
9.01	Owner's Representative	
9.02	Visits to Site	
9.03	Project Representative	
9.04	Authorized Variations in Work	
9.05	Rejecting Defective Work	
9.06	Shop Drawings, Change Orders and Payments	
9.07	Determinations for Unit Price Work	
9.08	Decisions on Requirements of Contract Documents and Acceptability of Work	
9.09	Limitations on Engineer's Authority and Responsibilities	
9.10	Compliance with Safety Program	26
ARTICLE 10	) – CHANGES IN THE WORK; CLAIMS	26
10.01	Authorized Changes in the Work	26
10.02	· · · · · · · · · · · · · · · · · · ·	
10.03	· ·	
10.04	Notification to Surety	27
10.05	Claims	27

ARTICLE 11	- COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK	27
11.01	Cost of the Work	27
11.02	Allowances	29
11.03	Unit Price Work	29
ARTICLE 12	- CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES	30
12.01	Change of Contract Price	30
12.02	Change of Contract Times	31
12.03	Delays	31
ARTICLE 13	– TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK.	31
13.01	Notice of Defects	31
13.02	Access to Work	31
13.03	Tests and Inspections	31
13.04	Uncovering Work	32
13.05	Owner May Stop the Work	
13.06	Correction or Removal of Defective Work	
13.07	Correction Period	
13.08	Acceptance of Defective Work	
13.09	Owner May Correct Defective Work	
12.05	o men stay consect 2 geome hemanian	
ARTICLE 14	– PAYMENTS TO CONTRACTOR AND COMPLETION	34
14.01	Schedule of Values	
	Progress Payments	
14.03	Contractor's Warranty of Title	
14.04	Substantial Completion	
14.05	Partial Utilization.	
14.06	Final Inspection	
14.07	Final Payment	
14.08	Final Completion Delayed	
14.09	Waiver of Claims	38
ADTICLE 15	– SUSPENSION OF WORK AND TERMINATION	20
15.01	Owner May Suspend Work	
15.02	Owner May Terminate for Cause	
15.03	Owner May Terminate For Convenience	
15.04	Contractor May Stop Work or Terminate	39
A DELCT E 16	DIADUME DEGOLUMION	20
	– DISPUTE RESOLUTION	
16.01	Methods and Procedures	39
ADTICLE 15	MICORILANICOLIO	40
	- MISCELLANEOUS	
17.01	Giving Notice	
17.02	Computation of Times	
17.03	Cumulative Remedies	
17.04	Survival of Obligations	
	Controlling Law	
17.06	Headings	40

#### GENERAL CONDITIONS

### ARTICLE 1 – DEFINITIONS AND TERMINOLOGY

# 1.01 Defined Terms

- A. Wherever used in the Bidding Requirements or Contract Documents and printed with initial capital letters, the terms listed below will have the meanings indicated which are applicable to both the singular and plural thereof. 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 which is evidence of the agreement between Owner and Contractor covering the Work.
- 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. Asbestos—Any material that contains more than one percent asbestos and is friable or is releasing asbestos fibers into the air above current action levels established by the United States Occupational Safety and Health Administration.
- 5. *Bid*—The offer or proposal of a Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.
- 6. *Bidder*—The individual or entity who submits a Bid directly to Owner.
- 7. Bidding Documents—The Bidding Requirements and the proposed Contract Documents (including all Addenda).
- 8. *Bidding Requirements*—The advertisement or invitation to bid, Instructions to Bidders, Bid security of acceptable form, if any, and the Bid Form with any supplements.

- 9. Change Order—A document recommended by Engineer 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, issued on or after the Effective Date of the Agreement.
- 10. Claim—A demand or assertion by Owner or Contractor seeking an adjustment of Contract Price or Contract Times, or both, or other relief with respect to the terms of the Contract. A demand for money or services by a third party is not a Claim.
- 11. Contract—The entire and integrated written agreement between the Owner and Contractor concerning the Work. The Contract supersedes prior negotiations, representations, or agreements, whether written or oral.
- 12. Contract Documents—Those items so designated in the Agreement. Only printed or hard copies of the items listed in the Agreement are Contract Documents. Approved Shop Drawings, other Contractor submittals, and the reports and drawings of subsurface and physical conditions are not Contract Documents.
- 13. Contract Price—The moneys payable by Owner to Contractor for completion of the Work in accordance with the Contract Documents as stated in the Agreement (subject to the provisions of Paragraph 11.03 in the case of Unit Price Work).
- 14. Contract Times—The number of days or the dates stated in the Agreement to: (i) achieve Milestones, if any; (ii) achieve Substantial Completion; and (iii) complete the Work so that it is ready for final payment as evidenced by Engineer's written recommendation of final payment.
- 15. *Contractor*—The individual or entity with whom Owner has entered into the Agreement.
- 16. Cost of the Work—See Paragraph 11.01 for definition.
- 17. *Drawings*—That part of the Contract Documents prepared or approved by Engineer which graphically shows the scope, extent, and character of the Work to be performed by Contractor. Shop Drawings and other Contractor submittals are not Drawings as so defined.
- 18. Effective Date of the Agreement—The date indicated in the Agreement on which it becomes effective, but if no such date is indicated, it means the date on which the Agreement is signed and delivered by the last of the two parties to sign and deliver.

- 19. *Engineer*—The individual or entity named as such in the Agreement.
- 20. Field Order—A written order issued by Engineer which requires minor changes in the Work but which does not involve a change in the Contract Price or the Contract Times.
- 21. *General Requirements*—Sections of Division 1 of the Specifications.
- 22. Hazardous Environmental Condition—The presence at the Site of Asbestos, PCBs, Petroleum, Hazardous Waste, or Radioactive Material in such quantities or circumstances that may present a substantial danger to persons or property exposed thereto.
- 23. *Hazardous Waste*—The term Hazardous Waste shall have the meaning provided in Section 1004 of the Solid Waste Disposal Act (42 USC Section 6903) as amended from time to time.
- 24. Laws and Regulations; Laws or Regulations—Any and all applicable laws, rules, regulations, ordinances, codes, and orders of any and all governmental bodies, agencies, authorities, and courts having jurisdiction.
- 25. *Liens*—Charges, security interests, or encumbrances upon Project funds, real property, or personal property.
- 26. *Milestone*—A principal event specified in the Contract Documents relating to an intermediate completion date or time prior to Substantial Completion of all the Work.
- 27. Notice of Award—The written notice by Owner to the Successful Bidder stating that upon timely compliance by the Successful Bidder with the conditions precedent listed therein, Owner will sign and deliver the Agreement.
- 28. *Notice to Proceed*—A written notice given 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 under the Contract Documents.
- 29. *Owner*—The individual or entity with whom Contractor has entered into the Agreement and for whom the Work is to be performed.
  - 30. *PCBs*—Polychlorinated biphenyls.

- 31. Petroleum—Petroleum, including crude oil or any fraction thereof which is liquid at standard conditions of temperature and pressure (60 degrees Fahrenheit and 14.7 pounds per square inch absolute), such as oil, petroleum, fuel oil, oil sludge, oil refuse, gasoline, kerosene, and oil mixed with other non-Hazardous Waste and crude oils.
- 32. 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.
- 33. *Project*—The total construction of which the Work to be performed under the Contract Documents may be the whole, or a part.
- 34. *Project Manual*—The bound documentary information prepared for bidding and constructing the Work. A listing of the contents of the Project Manual, which may be bound in one or more volumes, is contained in the table(s) of contents.
- 35. Radioactive Material—Source, special nuclear, or byproduct material as defined by the Atomic Energy Act of 1954 (42 USC Section 2011 et seq.) as amended from time to time.
- 36. Resident Project Representative—The authorized representative of Engineer who may be assigned to the Site or any part thereof.
- 37. *Samples*—Physical examples of materials, equipment, or workmanship that are representative of some portion of the Work and which establish the standards by which such portion of the Work will be judged.
- 38. Schedule of Submittals—A schedule, prepared and maintained by Contractor, of required submittals and the time requirements to support scheduled performance of related construction activities.
- 39. 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.
- 40. Shop Drawings—All drawings, diagrams, illustrations, schedules, and other data or information which are specifically prepared or assembled by or for Contractor and submitted by Contractor to illustrate some portion of the Work.

- 41. *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 for access thereto, and such other lands furnished by Owner which are designated for the use of Contractor.
- 42. Specifications—That part of the Contract Documents consisting of written requirements for materials, equipment, systems, standards and workmanship as applied to the Work, and certain administrative requirements and procedural matters applicable thereto.
- 43. 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 at the Site.
- 44. 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 thereof.
- 45. *Successful Bidder*—The Bidder submitting a responsive Bid to whom Owner makes an award.
- 46. Supplementary Conditions—That part of the Contract Documents which amends or supplements these General Conditions.
- 47. 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 Subcontractor.
- 48. *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 those that convey electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, water, wastewater, storm water, other liquids or chemicals, or traffic or other control systems.
- 49. *Unit Price Work*—Work to be paid for on the basis of unit prices.
- 50. *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, and furnishing, installing, and incorporating all materials and equipment into such construction, all as required by the Contract Documents.

51. Work Change Directive—A written statement to Contractor issued on or after the Effective Date of the Agreement and signed by Owner and recommended by Engineer ordering an addition, deletion, or revision in the Work, or responding to differing or unforeseen subsurface or physical conditions under which the Work is to be performed or to emergencies. A Work Change Directive will not change the Contract Price or the Contract Times but is evidence that the parties expect that the change ordered or documented by a Work Change Directive will be incorporated in a subsequently issued Change Order following negotiations by the parties as to its effect, if any, on the Contract Price or Contract Times.

# 1.02 Terminology

A. The words and terms discussed in Paragraph 1.02.B through F 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 Paragraph 9.09 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 14.04 or 14.05).

#### 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. When "furnish," "install," "perform," or "provide" is not used in connection with services, materials, or equipment in a context clearly requiring an obligation of Contractor, "provide" is implied.
- 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. 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 Insurance: Before any Work at the Site is started, Contractor and Owner shall each deliver to the other, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which either of them or any additional insured may reasonably request) which Contractor and Owner respectively are required to purchase and maintain in accordance with Article 5.

# 2.02 Copies of Documents

A. Owner shall furnish to Contractor up to ten printed or hard copies of the Drawings and Project Manual. Additional copies will be furnished upon request at the cost of reproduction.

# 2.03 Commencement of Contract Times; Notice to Proceed

A. The Contract Times will commence to run on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given, on the day indicated in the Notice to Proceed. A Notice to Proceed may be given at any time within 30 days after the Effective Date of the Agreement. In no event will the Contract Times commence to run later than the sixtieth day after the day of Bid opening or the thirtieth day after the Effective Date of the Agreement, whichever date is earlier.

# 2.04 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 the date on which the Contract Times commence to run.

# 2.05 Before Starting Construction

A. *Preliminary Schedules:* Within 10 days after the Effective Date of the Agreement (unless otherwise specified in the General Requirements), 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 Documents;
  - 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.

# 2.06 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 2.05.A, procedures for handling Shop Drawings and other submittals, processing Applications for Payment, 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 instructions, receive information, render decisions relative to the Contract, and otherwise act on behalf of each respective party.

### 2.07 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 2.05.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 component parts of the Work.

# ARTICLE 3 – CONTRACT DOCUMENTS: INTENT, AMENDING, 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. Any labor, documentation, services, materials, or equipment that reasonably may be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the indicated result will be provided whether or not specifically called for, at no additional cost to Owner.
- C. Clarifications and interpretations of the Contract Documents shall be issued by Engineer as provided in Article 9.

#### 3.02 Reference Standards

- A. Standards, Specifications, Codes, Laws, and Regulations
- 1. Reference to standards, specifications, manuals, 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, code, or Laws or Regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement 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, 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 Contract Documents. 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 Contract Documents.

### 3.03 Reporting and Resolving Discrepancies

# A. Reporting Discrepancies:

- 1. Contractor's Review of Contract Documents Before Starting Work: Before undertaking each part of the Work, Contractor shall carefully study and compare the Contract Documents and check and verify pertinent figures therein and all applicable field measurements. Contractor shall promptly report in writing to Engineer any conflict, error, ambiguity, or discrepancy which Contractor discovers, or has actual knowledge of, and shall obtain a written interpretation or clarification from Engineer before proceeding with any Work affected thereby.
- 2. Contractor's Review of Contract Documents During Performance of Work: If, 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) any standard, specification, manual, or code, or (c) 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 6.16.A) until an amendment or supplement to the Contract Documents has been issued by one of the methods indicated in Paragraph 3.04.
- 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 Contract Documents shall take precedence in resolving any conflict, error, ambiguity, or discrepancy between the provisions of the Contract Documents and:
  - a. the provisions of any standard, specification, manual, or code, or the instruction of any Supplier (whether or not

specifically incorporated by reference in the Contract Documents); or

b. the provisions of any Laws 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 Amending and Supplementing Contract Documents

- A. The Contract Documents may be amended to provide for additions, deletions, and revisions in the Work or to modify the terms and conditions thereof by either a Change Order or a Work Change Directive.
- B. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the Work may be authorized, by one or more of the following ways:

#### 1. A Field Order;

- 2. Engineer's approval of a Shop Drawing or Sample (subject to the provisions of Paragraph 6.17.D.3); or
- 3. Engineer's written interpretation or clarification.

### 3.05 Reuse of Documents

- A. Contractor and any Subcontractor or Supplier 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
- 2. 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.
- 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.

- A. Unless otherwise stated in the Supplementary Conditions, the data furnished by Owner or Engineer to Contractor, or by Contractor to Owner or Engineer, that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's sole risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.
- B. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within 60 days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the 60-day acceptance period will be corrected by the transferring party.
- C. When transferring documents in electronic media format, the transferring party makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the data's creator.

# ARTICLE 4 – AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS; REFERENCE POINTS

## 4.01 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. Owner will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If Contractor and Owner are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in Owner's furnishing the Site or a part thereof, Contractor may make a Claim therefor as provided in Paragraph 10.05.
- 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 the Work is to be performed 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.

### 4.02 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 contiguous to the Site; and
- 2. those drawings known to Owner of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities).
- B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "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.

# 4.03 Differing Subsurface or Physical Conditions

A. *Notice:* If Contractor believes that any subsurface or physical condition that is uncovered or revealed 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 4.02 is materially inaccurate; or
- 2. is of such a nature as to require a change in the Contract Documents; 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;
- 5. 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 6.16.A), notify Owner and Engineer in writing about such condition. Contractor shall not further disturb such condition or perform any Work in connection therewith (except as aforesaid) until receipt of written order to do so.
- B. Engineer's Review: After receipt of written notice as required by Paragraph 4.03.A, Engineer will promptly review the pertinent condition, determine the necessity of Owner's obtaining additional exploration or tests with respect thereto, and advise Owner in writing (with a copy to Contractor) of Engineer's findings and conclusions.

# C. Possible Price and Times Adjustments:

- 1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition 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 meet any one or more of the categories described in Paragraph 4.03.A; and
  - 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 Paragraphs 9.07 and 11.03.
- 2. Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times if:

- a. Contractor knew of the existence of such conditions at the time Contractor made a final 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
- b. the existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration, test, or study of the Site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for Contractor prior to Contractor's making such final commitment; or
- c. Contractor failed to give the written notice as required by Paragraph 4.03.A.
- 3. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a Claim may be made therefor as provided in Paragraph 10.05. However, neither Owner or Engineer, or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors shall be liable to Contractor for any claims, costs, losses, or 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) sustained by Contractor on or in connection with any other project or anticipated project.

# 4.04 Underground Facilities

- A. Shown or Indicated: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous 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 shall not be responsible for 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 such information and data;

- b. locating all Underground Facilities shown or indicated in the Contract Documents:
- c. coordination of the Work with the owners of such Underground Facilities, including Owner, during construction; and
- d. the safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the Work.

#### B. Not Shown or Indicated:

- 1. If an Underground Facility is uncovered or revealed at or contiguous to the Site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, 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 6.16.A), identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer. Engineer will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, Contractor shall be responsible for the safety and protection of such Underground Facility.
- 2. If Engineer concludes that a change in the Contract Documents is required, a Work Change Directive or a Change Order will be issued to reflect and document such consequences. An equitable adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, Owner or Contractor may make a Claim therefor as provided in Paragraph 10.05.

# 4.05 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.

#### 4.06 Hazardous Environmental Condition at Site

- A. Reports and Drawings: The Supplementary Conditions identify those reports and drawings known to Owner relating to Hazardous Environmental Conditions that have been identified at the Site.
- B. Limited Reliance by Contractor on Technical Data Authorized: Contractor may rely upon the accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Supplementary Conditions. Except for such reliance on such "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 any Hazardous Environmental Condition uncovered or revealed at the Site which was not shown or indicated in Drawings or Specifications or identified in the Contract Documents to be within the scope of the Work. Contractor shall be responsible for a Hazardous Environmental Condition created with any materials brought to the Site by Contractor, Subcontractors, Suppliers, or anyone else for whom Contractor is responsible.
- D. If Contractor encounters a Hazardous Environmental Condition or if Contractor or anyone for whom Contractor is responsible creates a Hazardous

Environmental Condition, Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all Work in connection with such condition and in any area affected thereby (except in an emergency as required by Paragraph 6.16.A); and (iii) 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 4.06.E.

- E. Contractor shall not be required to resume Work in connection with such condition or in any affected area until after Owner has obtained any required permits related thereto and delivered written notice to Contractor: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of Work; or (ii) specifying any special conditions under which such Work may be resumed safely. 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, either party may make a Claim therefor as provided in Paragraph 10.05.
- F. 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. If Owner and Contractor cannot agree as to entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the Work, then either party may make a Claim therefor as provided in Paragraph 10.05. Owner may have such deleted portion of the Work performed by Owner's own forces or others in accordance with Article 7.
- G. 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, 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: (i) was not shown or indicated in the Drawings or Specifications or identified in the Contract Documents to

be included within the scope of the Work, and (ii) was not created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.G shall obligate Owner to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.

- H. 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. 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 created by Contractor or by anyone for whom Contractor is responsible. Nothing in this Paragraph 4.06.H shall obligate Contractor to indemnify any individual or entity from and against the consequences of that individual's or entity's own negligence.
- I. The provisions of Paragraphs 4.02, 4.03, and 4.04 do not apply to a Hazardous Environmental Condition uncovered or revealed at the Site.

# ARTICLE 5 – BONDS AND INSURANCE

- 5.01 *Performance, Payment, and Other Bonds*
- A. Contractor shall furnish performance and payment bonds, 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 Documents. 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 13.07, whichever is later, except as provided otherwise by Laws or Regulations or by the Contract Documents. Contractor shall also furnish such other bonds as are required by the Contract Documents.
- B. All bonds shall be in the form prescribed by the Contract Documents except as provided otherwise by Laws or Regulations, and shall be executed by such sureties as are named in the list of "Companies Holding Certificates of Authority as Acceptable Sureties on Federal Bonds and as Acceptable Reinsuring Companies" as published in Circular 570 (amended) by the Financial Management Service, Surety Bond Branch, U.S. Department of the Treasury. All bonds 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 each bond.

C. If the surety on any bond furnished by Contractor is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the Project is located or it ceases to meet the requirements of Paragraph 5.01.B, 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 requirements of Paragraphs 5.01.B and 5.02.

### 5.02 Licensed Sureties and Insurers

A. All bonds and insurance required by the Contract Documents to be purchased and maintained by Owner or Contractor shall be obtained from surety or insurance companies that are duly licensed or authorized in the jurisdiction in which the Project is located to issue bonds or insurance policies for the limits and coverages so required. Such surety and insurance companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary Conditions.

# 5.03 Certificates of Insurance

- A. Contractor shall deliver to Owner, with copies to each additional insured and loss payee identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Owner or any other additional insured) which Contractor is required to purchase and maintain.
- B. Owner shall deliver to Contractor, with copies to each additional insured and loss payee identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance requested by Contractor or any other additional insured) which Owner is required to purchase and maintain.
- C. Failure of Owner to demand such certificates or other evidence of Contractor's full compliance with these insurance requirements or failure of Owner to identify a deficiency in compliance from the evidence provided shall not be construed as a waiver of Contractor's obligation to maintain such insurance.
- D. Owner does not represent that insurance coverage and limits established in this Contract necessarily will be adequate to protect Contractor.
- E. The insurance and insurance limits required herein shall not be deemed as a limitation on Contractor's

liability under the indemnities granted to Owner in the Contract Documents.

#### 5.04 Contractor's Insurance

- A. Contractor shall purchase and maintain such insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which 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:
- 1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;
- 2. claims for damages because of bodily injury, occupational sickness or disease, or death of Contractor's employees;
- 3. claims for damages because of bodily injury, sickness or disease, or death of any person other than Contractor's employees;
- 4. claims for damages insured by reasonably available personal injury liability coverage which are sustained:
  - a. by any person as a result of an offense directly or indirectly related to the employment of such person by Contractor, or
  - b. by any other person for any other reason;
- 5. 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; and
- 6. 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.
- B. The policies of insurance required by this Paragraph 5.04 shall:
- 1. with respect to insurance required by Paragraphs 5.04.A.3 through 5.04.A.6 inclusive, be written on an occurrence basis, include as additional insureds (subject to any customary exclusion regarding professional liability) Owner and Engineer, and any other individuals or entities identified in the Supplementary Conditions, all of

whom shall be listed as additional insureds, and 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;

- 2. include at least the specific coverages and be written for not less than the limits of liability provided in the Supplementary Conditions or required by Laws or Regulations, whichever is greater;
- 3. include contractual liability insurance covering Contractor's indemnity obligations under Paragraphs 6.11 and 6.20;
- 4. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Supplementary Conditions to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to Paragraph 5.03 will so provide);
- 5. remain in effect at least until final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.07; and
  - 6. include completed operations coverage:
    - a. Such insurance shall remain in effect for two years after final payment.
    - b. Contractor shall furnish Owner and each other additional insured identified in the Supplementary Conditions, to whom a certificate of insurance has been issued, evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

### 5.05 Owner's Liability Insurance

A. In addition to the insurance required to be provided by Contractor under Paragraph 5.04, 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.

# 5.06 Property Insurance

- A. Unless otherwise provided in the Supplementary Conditions, Owner shall purchase and maintain property insurance upon the Work at the Site in the amount of the full 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 interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as a loss payee;
- 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, extended coverage, theft, vandalism and malicious mischief, earthquake, collapse, 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.
- 3. include expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and architects);
- 4. cover materials and equipment stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated in the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer;
- 5. allow for partial utilization of the Work by Owner;
  - 6. include testing and startup; and
- 7. be maintained in effect until final payment is made unless otherwise agreed to in writing by Owner, Contractor, and Engineer with 30 days written notice to each other loss payee to whom a certificate of insurance has been issued.
- B. Owner shall purchase and maintain such equipment breakdown insurance or additional property insurance as may be required by the Supplementary Conditions or Laws and Regulations which will include the

interests of Owner, Contractor, Subcontractors, and Engineer, and any other individuals or entities identified in the Supplementary Conditions, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them, each of whom is deemed to have an insurable interest and shall be listed as a loss payee.

- C. All the policies of insurance (and the certificates or other evidence thereof) required to be purchased and maintained in accordance with this Paragraph 5.06 will contain a provision or endorsement that the coverage afforded will not be canceled or materially changed or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other loss payee to whom a certificate of insurance has been issued and will contain waiver provisions in accordance with Paragraph 5.07.
- D. Owner shall not be responsible for purchasing and maintaining any property insurance specified in this Paragraph 5.06 to protect the interests of Contractor, Subcontractors, or others in the Work to the extent of any deductible amounts that are identified in the Supplementary Conditions. The risk of loss within such identified deductible amount will be borne by Contractor, Subcontractors, or others suffering any such loss, and if any of them wishes property insurance coverage within the limits of such amounts, each may purchase and maintain it at the purchaser's own expense.
- E. If Contractor requests in writing that other special insurance be included in the property insurance policies provided under this Paragraph 5.06, Owner shall, if possible, include such insurance, and the cost thereof will be charged to Contractor by appropriate Change Order. Prior to commencement of the Work at the Site, Owner shall in writing advise Contractor whether or not such other insurance has been procured by Owner.

### 5.07 Waiver of Rights

A. Owner and Contractor intend that all policies purchased in accordance with Paragraph 5.06 will protect Owner, Contractor, Subcontractors, and Engineer, and all other individuals or entities identified in the Supplementary Conditions as loss payees (and the officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of them) in such policies and will provide primary coverage for all losses and damages caused by the perils or causes of loss covered thereby. All such policies 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 of the insureds or loss payees thereunder. Owner and

Contractor waive all rights against each other and their officers, directors, members, respective 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 Subcontractors and Engineer, and all other individuals or entities identified in the Supplementary Conditions as loss payees (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 as trustee 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 utilization pursuant to Paragraph 14.05, after Substantial Completion pursuant to Paragraph 14.04, or after final payment pursuant to Paragraph 14.07.
- C. Any insurance policy maintained by Owner covering any loss, damage or consequential loss referred to in Paragraph 5.07.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, and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them.

#### 5.08 Receipt and Application of Insurance Proceeds

A. Any insured loss under the policies of insurance required by Paragraph 5.06 will be adjusted with Owner and made payable to Owner as fiduciary for the loss payees, as their interests may appear, subject to the requirements of any applicable mortgage clause and of

Paragraph 5.08.B. Owner shall deposit in a separate account any money so received and shall distribute it in accordance with such agreement as the parties in interest may reach. If no other special agreement is reached, the damaged Work shall be repaired or replaced, the moneys so received applied on account thereof, and the Work and the cost thereof covered by an appropriate Change Order.

B. Owner as fiduciary shall have power to adjust and settle any loss with the insurers unless one of the parties in interest shall object in writing within 15 days after the occurrence of loss to Owner's exercise of this power. If such objection be made, Owner as fiduciary shall make settlement with the insurers in accordance with such agreement as the parties in interest may reach. If no such agreement among the parties in interest is reached, Owner as fiduciary shall adjust and settle the loss with the insurers and, if required in writing by any party in interest, Owner as fiduciary shall give bond for the proper performance of such duties.

# 5.09 Acceptance of Bonds and Insurance; Option to Replace

A. If either Owner or Contractor has any objection to the coverage afforded by or other provisions of the bonds or insurance required to be purchased and maintained by the other party in accordance with Article 5 on the basis of non-conformance with the Contract Documents, the objecting party shall so notify the other party in writing within 10 days after receipt of the certificates (or other evidence requested) required by Paragraph 2.01.B. Owner and Contractor shall each provide to the other such additional information in respect of insurance provided as the other may reasonably request. If either party does not purchase or maintain all of the bonds and insurance required of such party by the Contract Documents, 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. Without prejudice to any other right or remedy, the other party may elect to obtain equivalent bonds or insurance to protect such other party's interests at the expense of the party who was required to provide such coverage, and a Change Order shall be issued to adjust the Contract Price accordingly.

# 5.10 Partial Utilization, Acknowledgment of Property Insurer

A. If Owner finds it necessary to occupy or use a portion or portions of the Work prior to Substantial Completion of all the Work as provided in Paragraph 14.05, no such use or occupancy shall commence before the insurers providing the property insurance pursuant to

Paragraph 5.06 have acknowledged notice thereof and in writing effected any changes in coverage necessitated thereby. The insurers providing the property insurance shall consent by endorsement on the policy or policies, but the property insurance shall not be canceled or permitted to lapse on account of any such partial use or occupancy.

# ARTICLE 6 – CONTRACTOR'S RESPONSIBILITIES

# 6.01 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. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.

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.

## 6.02 *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. Contractor will not permit the performance of Work on a Saturday, Sunday, or any legal holiday without Owner's written consent (which will not be unreasonably withheld) given after prior written notice to Engineer.

# 6.03 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.

- B. All materials and equipment incorporated into the Work shall be as specified or, if not specified, 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.

# 6.04 Progress Schedule

- A. Contractor shall adhere to the Progress Schedule established in accordance with Paragraph 2.07 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 2.07) proposed adjustments in the Progress Schedule that will not result in changing the Contract Times. Such adjustments will comply with any provisions of the General Requirements applicable thereto.
- 2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements of Article 12. Adjustments in Contract Times may only be made by a Change Order.

# 6.05 Substitutes and "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 specification or description 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 or no substitution is permitted, other items of material or equipment or material or equipment of other Suppliers may be submitted to Engineer for review under the circumstances described below.
- 1. "Or-Equal" Items: If in Engineer's sole discretion 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, it may be considered by Engineer as an "orequal" item, in which case review and approval of the proposed item may, in Engineer's sole discretion, be accomplished without compliance with some or all of the requirements for approval of proposed substitute items. For the purposes of this Paragraph 6.05.A.1, 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; and
- 3) it has a proven record of performance and availability of responsive service.
  - 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.

#### 2. Substitute Items:

- a. If in Engineer's sole discretion an item of material or equipment proposed by Contractor does not qualify as an "or-equal" item under Paragraph 6.05.A.1, it will be considered a proposed substitute item.
- b. Contractor shall submit sufficient information as provided below to allow Engineer to determine if the item of material or equipment proposed is essentially equivalent to that named and an acceptable substitute therefor. Requests for review of proposed substitute items of material or equipment will not be accepted by Engineer from anyone other than Contractor.

- c. The requirements for review by Engineer will be as set forth in Paragraph 6.05.A.2.d, as supplemented by the General Requirements, and as Engineer may decide is appropriate under the circumstances.
- d. 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:
- 1) shall certify that the proposed substitute item will:
  - a) perform adequately the functions and achieve the results called for by the general design,
  - b) be similar in substance to that specified, and
  - c) be suited to the same use as that specified;
  - 2) will state:
  - a) the extent, if any, to which the use of the proposed substitute item will prejudice Contractor's achievement of Substantial Completion on time,
  - b) 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
  - c) whether incorporation or use of the proposed substitute item in connection with the Work is subject to payment of any license fee or royalty;
  - 3) will identify:
  - a) all variations of the proposed substitute item from that specified, and
  - b) available engineering, sales, maintenance, repair, and replacement services; and

- 4) shall contain an itemized estimate of all costs or credits that will result directly or indirectly from use of such substitute item, including costs of redesign and claims of other contractors affected by any resulting change.
- B. Substitute Construction Methods or Procedures: If a specific means, method, technique, sequence, or procedure of construction is expressly required by the Contract Documents, Contractor may furnish or utilize a substitute means, method, technique, sequence, or procedure of construction approved by Engineer. Contractor shall submit sufficient information to allow Engineer, in Engineer's sole discretion, to determine that the substitute proposed is equivalent to that expressly called for by the Contract Documents. The requirements for review by Engineer will be similar to those provided in Paragraph 6.05.A.2.
- C. Engineer's Evaluation: Engineer will be allowed a reasonable time within which to evaluate each proposal or submittal made pursuant to Paragraphs 6.05.A and 6.05.B. Engineer may require Contractor to furnish additional data about the proposed substitute item. Engineer will be the sole judge of acceptability. No "or equal" or substitute will be ordered, installed or utilized until Engineer's review is complete, which will be evidenced by a Change Order in the case of a substitute and an approved Shop Drawing for an "or equal." Engineer will advise Contractor in writing of any negative determination.
- D. Special Guarantee: Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.
- E. Engineer's Cost Reimbursement: Engineer will record Engineer's costs in evaluating a substitute proposed or submitted by Contractor pursuant to Paragraphs 6.05.A.2 and 6.05.B. 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.
- F. *Contractor's Expense*: Contractor shall provide all data in support of any proposed substitute or "or-equal" at Contractor's expense.

- A. Contractor shall not employ any Subcontractor, Supplier, or other individual or entity (including those acceptable to Owner as indicated in Paragraph 6.06.B), whether initially or as a replacement, against whom Owner may have reasonable objection. Contractor shall not be required to employ any Subcontractor, Supplier, or other individual or entity to furnish or perform any of the Work against whom Contractor has reasonable objection.
- B. If the Supplementary Conditions require the identity of certain Subcontractors, Suppliers, or other individuals or entities to be submitted to Owner in advance for acceptance by Owner by a specified date prior to the Effective Date of the Agreement, and if Contractor has submitted a list thereof in accordance with the Supplementary Conditions, Owner's acceptance (either in writing or by failing to make written objection thereto by the date indicated for acceptance or objection in the Bidding Documents or the Contract Documents) of any such Subcontractor, Supplier, or other individual or entity so identified may be revoked on the basis of reasonable objection after due investigation. Contractor shall submit an acceptable replacement for the rejected Subcontractor, Supplier, or other individual or entity, and the Contract Price will be adjusted by the difference in the cost occasioned by such replacement, and an appropriate Change Order will be issued. 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 any right of Owner or Engineer to reject defective Work.
- C. 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. 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 moneys due any such Subcontractor, Supplier, or other individual or entity except as may otherwise be required by Laws and Regulations.

- D. Contractor shall be solely responsible for scheduling and coordinating the Work of Subcontractors, Suppliers, and other individuals or entities performing or furnishing any of the Work under a direct or indirect contract with Contractor.
- E. Contractor shall require all Subcontractors, Suppliers, and such other individuals or entities performing or furnishing any of the Work to communicate with Engineer through Contractor.
- F. 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.
- G. All Work performed for Contractor by a Subcontractor or Supplier will be pursuant to an appropriate agreement between Contractor and the Subcontractor or Supplier which specifically binds the Subcontractor or Supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Engineer. Whenever any such agreement is with a Subcontractor or Supplier who is listed as a loss payee on the property insurance provided in Paragraph 5.06, the agreement between the Contractor and the Subcontractor or Supplier will contain provisions whereby the Subcontractor or Supplier waives all rights against Owner, Contractor, Engineer, and all other individuals or entities identified in the Supplementary Conditions to be listed as insureds or loss payees (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 such policies and any other property insurance applicable to the Work. If the insurers on any such policies require separate waiver forms to be signed by any Subcontractor or Supplier, Contractor will obtain the same.

## 6.07 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.

#### 6.08 Permits

A. Unless otherwise provided in the Supplementary Conditions, 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 opening of Bids, or, if there are no Bids, on the Effective Date of the Agreement. Owner shall pay all charges of utility owners for connections for providing permanent service to the Work.

### 6.09 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 knowing or having reason to know that it is contrary to Laws or Regulations, Contractor shall bear 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. However, it shall not be Contractor's responsibility to make certain that the Specifications and Drawings are in accordance with Laws and Regulations, but this shall not relieve Contractor of Contractor's obligations under Paragraph 3.03.
- C. Changes in Laws or Regulations not known at the time of opening of Bids (or, on the Effective Date of the Agreement if there were no Bids) having an effect on the cost or time of performance of the Work shall be the subject of an adjustment in Contract Price or Contract Times. If Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

### 6.10 *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.

# 6.11 Use of Site and Other Areas

- A. Limitation on Use of Site and Other Areas:
- 1. Contractor shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the Site and other areas permitted by Laws and Regulations, and shall not unreasonably encumber the Site and other areas with construction equipment or other materials or equipment. Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the Work.
- 2. Should any claim be made by any such owner or occupant because of the performance of the Work, Contractor shall promptly settle with such other party by negotiation or otherwise resolve the claim by arbitration or other dispute resolution proceeding or at law.
- 3. 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 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 by or based upon Contractor's performance of the Work.

- B. Removal of Debris During Performance of the Work: During the progress of the Work Contractor shall keep the Site and other 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 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 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 property to stresses or pressures that will endanger it.

#### 6.12 Record Documents

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

# 6.13 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, 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 owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the Work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.
- 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 6.13.A.2 or 6.13.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 (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 for protection of the Work 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 14.07.B that the Work is acceptable (except as otherwise expressly provided in connection with Substantial Completion).

#### 6.14 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.

#### 6.15 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.

#### 6.16 *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 thereby 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.

### 6.17 Shop Drawings and Samples

A. Contractor shall submit Shop Drawings and Samples to Engineer for review and approval in accordance with the accepted Schedule of Submittals (as required by Paragraph 2.07). Each submittal will be identified as Engineer may require.

# 1. Shop Drawings:

- a. Submit number of copies specified in the General Requirements.
- 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 6.17.D.

### 2. Samples:

- a. Submit number of Samples specified in the Specifications.
- b. 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 6.17.D.
- B. 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. Submittal Procedures:

- 1. Before submitting each Shop Drawing or Sample, Contractor shall have:
  - a. reviewed and coordinated each 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 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 and approval of that 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 both a written communication separate from the Shop Drawings or Sample submittal; and, in addition, by a specific notation made on each Shop Drawing or Sample submitted to Engineer for review and approval of each such variation.

# 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 (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.
- 3. Engineer's review and approval 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 6.17.C.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's review and approval shall not relieve Contractor from responsibility for complying with the requirements of Paragraph 6.17.C.1.

## 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.

## 6.18 *Continuing the Work*

A. 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, except as permitted by Paragraph 15.04 or as Owner and Contractor may otherwise agree in writing.

#### 6.19 *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 representation of 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 or the issuance of a notice of acceptability by Engineer;
  - 6. any inspection, test, or approval by others; or
  - 7. any correction of defective Work by Owner.

# 6.20 Indemnification

- A. 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 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 6.20.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 6.20.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.

## 6.21 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.
- B. If professional design services 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, Shop Drawings 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 6.21, 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 6.17.D.1.
- E. Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

### 7.01 Related Work at Site

- A. Owner may perform other work related to the Project at the Site with Owner's employees, or through other direct contracts therefor, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:
- 1. written notice thereof will be given to Contractor prior to starting any such other work; and
- 2. if Owner and Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a Claim may be made therefor as provided in Paragraph 10.05.
- B. Contractor shall afford each other contractor who is a party to such a direct contract, each utility owner. and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the Site, provide a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work, and properly coordinate the Work with theirs. 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. The duties and responsibilities of Contractor under this Paragraph are for the benefit of such utility owners and other contractors to the extent that there are comparable provisions for the benefit of Contractor in said direct contracts between Owner and such utility owners and other contractors.
- C. If the proper execution or results of any part of Contractor's Work depends upon work performed by others under this Article 7, 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.

#### 7.02 Coordination

- A. If Owner intends to contract with others for the performance of other work on the Project at the Site, the following will be set forth in Supplementary Conditions:
- 1. the individual or entity who will have authority and responsibility for coordination of the activities among the various contractors will be identified;
- 2. the specific matters to be covered by such authority and responsibility will be itemized; and
- 3. the extent of such authority and responsibilities will be provided.
- B. Unless otherwise provided in the Supplementary Conditions, Owner shall have sole authority and responsibility for such coordination.

# 7.03 Legal Relationships

- A. Paragraphs 7.01.A and 7.02 are not applicable for utilities not under the control of Owner.
- B. Each other direct contract of Owner under Paragraph 7.01.A shall provide that the other contractor is liable to Owner and Contractor for the reasonable direct delay and disruption costs incurred by Contractor as a result of the other contractor's wrongful actions or inactions.
- C. Contractor shall be liable to Owner and any other contractor under direct contract to Owner for the reasonable direct delay and disruption costs incurred by such other contractor as a result of Contractor's wrongful action or inactions.

# ARTICLE 8 – OWNER'S RESPONSIBILITIES

### 8.01 *Communications to Contractor*

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

# 8.02 Replacement of Engineer

A. In case of termination of the employment of Engineer, Owner shall appoint an engineer to whom Contractor makes no reasonable objection, whose status under the Contract Documents shall be that of the former Engineer.

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

# 8.04 Pay When Due

A. Owner shall make payments to Contractor when they are due as provided in Paragraphs 14.02.C and 14.07.C.

# 8.05 Lands and Easements; Reports and Tests

A. Owner's duties with respect to providing lands and easements and providing engineering surveys to establish reference points are set forth in Paragraphs 4.01 and 4.05. Paragraph 4.02 refers to Owner's identifying and making available to Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions relating to existing surface or subsurface structures at the Site.

### 8.06 *Insurance*

A. Owner's responsibilities, if any, with respect to purchasing and maintaining liability and property insurance are set forth in Article 5.

## 8.07 Change Orders

A. Owner is obligated to execute Change Orders as indicated in Paragraph 10.03.

### 8.08 Inspections, Tests, and Approvals

A. Owner's responsibility with respect to certain inspections, tests, and approvals is set forth in Paragraph 13.03.B.

# 8.09 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 precautions 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.

### 8.10 Undisclosed Hazardous Environmental Condition

A. Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in Paragraph 4.06.

# 8.11 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.

# 8.12 Compliance with Safety Program

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 pursuant to Paragraph 6.13.D.

# ARTICLE 9 – ENGINEER'S STATUS DURING CONSTRUCTION

# 9.01 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 Documents.

# 9.02 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 9.09. 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.

### 9.03 Project Representative

A. If Owner and Engineer agree, Engineer will furnish a Resident Project Representative to assist Engineer in providing more extensive observation of the Work. The authority and responsibilities of any such Resident Project Representative and assistants will be as provided in the Supplementary Conditions, and limitations on the responsibilities thereof will be as provided in Paragraph 9.09. 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.

#### 9.04 Authorized Variations in Work

A. Engineer may authorize minor variations in the Work from the requirements of the Contract Documents which 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. These may be accomplished by a Field Order and will be binding on Owner and also on Contractor, who shall perform the Work involved promptly. If Owner or Contractor believes that a Field Order justifies an adjustment in the Contract Price or Contract Times, or both, and the parties are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a Claim may be made therefor as provided in Paragraph 10.05.

## 9.05 Rejecting Defective Work

A. Engineer will have authority to reject Work which Engineer believes to be defective, or that Engineer believes will not produce a completed Project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed Project as a functioning whole as indicated by the Contract Documents. Engineer will also have authority to require special inspection or testing of the Work as provided in Paragraph 13.04, whether or not the Work is fabricated, installed, or completed.

- 9.06 Shop Drawings, Change Orders and Payments
- A. In connection with Engineer's authority, and limitations thereof, as to Shop Drawings and Samples, see Paragraph 6.17.
- B. In connection with 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, see Paragraph 6.21.
- C. In connection with Engineer's authority as to Change Orders, see Articles 10, 11, and 12.
- D. In connection with Engineer's authority as to Applications for Payment, see Article 14.

#### 9.07 Determinations for Unit Price Work

A. 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 Paragraph 10.05.

# 9.08 Decisions on Requirements of Contract Documents and Acceptability of Work

- A. Engineer will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the Work thereunder. All matters in question and other matters between Owner and Contractor arising prior to the date final payment is due relating to the acceptability of the Work, and the interpretation of the requirements of the Contract Documents pertaining to the performance of the Work, will be referred initially to Engineer in writing within 30 days of the event giving rise to the question.
- B. Engineer will, with reasonable promptness, render a written decision on the issue referred. If Owner or Contractor believes that any such decision entitles them to an adjustment in the Contract Price or Contract Times or both, a Claim may be made under Paragraph 10.05. The date of Engineer's decision shall be the date of the event giving rise to the issues referenced for the purposes of Paragraph 10.05.B.

- C. Engineer's written decision on the issue referred will be final and binding on Owner and Contractor, subject to the provisions of Paragraph 10.05.
- D. When functioning as interpreter and judge under this Paragraph 9.08, Engineer will not show partiality to Owner or Contractor and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity.

# 9.09 Limitations on Engineer's Authority and Responsibilities

- A. Neither Engineer's authority or responsibility under this Article 9 or under any other provision of the Contract Documents 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 14.07.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 9.09 shall also apply to the Resident Project Representative, if any, and assistants, if any.

#### 9.10 Compliance with Safety Program

A. While at the Site, Engineer's employees and representatives shall comply with the specific applicable requirements of Contractor's safety programs of which Engineer has been informed pursuant to Paragraph 6.13.D.

#### ARTICLE 10 – CHANGES IN THE WORK; CLAIMS

#### 10.01 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 by a Change Order, or a Work Change Directive. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).
- B. If Owner and Contractor are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Work Change Directive, a Claim may be made therefor as provided in Paragraph 10.05.

#### 10.02 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 as provided in Paragraph 3.04, except in the case of an emergency as provided in Paragraph 6.16 or in the case of uncovering Work as provided in Paragraph 13.04.D.

## 10.03 Execution of Change Orders

- A. Owner and Contractor shall execute appropriate Change Orders recommended by Engineer covering:
- 1. changes in the Work which are: (i) ordered by Owner pursuant to Paragraph 10.01.A, (ii) required because of acceptance of defective Work under Paragraph 13.08.A or Owner's correction of defective Work under Paragraph 13.09, or (iii) agreed to by the parties;
- 2. 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; and

3. changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by Engineer pursuant to Paragraph 10.05; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable Laws and Regulations, but during any such appeal, Contractor shall carry on the Work and adhere to the Progress Schedule as provided in Paragraph 6.18.A.

#### 10.04 *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.

#### 10.05 Claims

- A. Engineer's Decision Required: All Claims, except those waived pursuant to Paragraph 14.09, shall be referred to the Engineer for decision. A decision by Engineer shall be required as a condition precedent to any exercise by Owner or Contractor of any rights or remedies either may otherwise have under the Contract Documents or by Laws and Regulations in respect of such Claims.
- B. Notice: Written notice stating the general nature of each Claim shall be delivered by the claimant to Engineer and the other party to the Contract promptly (but in no event later than 30 days) after the start of the event giving rise thereto. The responsibility to substantiate a Claim shall rest with the party making the Claim. Notice of the amount or extent of the Claim, with supporting data shall be delivered to the Engineer and the other party to the Contract within 60 days after the start of such event (unless Engineer allows additional time for claimant to submit additional or more accurate data in support of such Claim). A Claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of Paragraph 12.01.B. A Claim for an adjustment in Contract Times shall be prepared in accordance with the provisions of Paragraph 12.02.B. Each Claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to Engineer and the claimant within 30 days after receipt of the claimant's last submittal (unless Engineer allows additional time).

- C. Engineer's Action: Engineer will review each Claim and, within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any, take one of the following actions in writing:
  - 1. deny the Claim in whole or in part;
  - 2. approve the Claim; or
- 3. notify the parties that the Engineer is unable to resolve the Claim if, in the Engineer's sole discretion, it would be inappropriate for the Engineer to do so. For purposes of further resolution of the Claim, such notice shall be deemed a denial.
- D. In the event that Engineer does not take action on a Claim within said 30 days, the Claim shall be deemed denied.
- E. Engineer's written action under Paragraph 10.05.C or denial pursuant to Paragraphs 10.05.C.3 or 10.05.D will be final and binding upon Owner and Contractor, unless Owner or Contractor invoke the dispute resolution procedure set forth in Article 16 within 30 days of such action or denial.
- F. No Claim for an adjustment in Contract Price or Contract Times will be valid if not submitted in accordance with this Paragraph 10.05.

# ARTICLE 11 – COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK

#### 11.01 Cost of the Work

- A. Costs Included: The term Cost of the Work means the sum of all costs, except those excluded in Paragraph 11.01.B, necessarily incurred and paid by Contractor in the proper performance of the Work. When the value of any Work covered by a Change Order or when a Claim for an adjustment in Contract Price is determined on the basis of Cost of the Work, the costs to be reimbursed to Contractor will be only those additional or incremental costs required because of the change in the Work or because of the event giving rise to the Claim. Except as otherwise may be agreed to in writing by Owner, such costs 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 11.01.B, 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, 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 11.01.
- 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 5.06.D), 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 telegrams, long distance telephone calls, telephone 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 Contractor is required by the Contract Documents to purchase and maintain.
- B. *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, expediters, 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 11.01.A.1 or specifically covered by Paragraph 11.01.A.4, all of which 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 Paragraphs 11.01.A.
- C. Contractor's Fee: When all the Work 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 or when a Claim for an 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 12.01.C.

D. Documentation: Whenever the Cost of the Work for any purpose is to be determined pursuant to Paragraphs 11.01.A and 11.01.B, 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.

#### 11.02 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:

#### 1. Contractor agrees that:

- a. 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
- b. 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:

- 1. 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.

#### 11.03 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. Determinations of the actual quantities and classifications of Unit Price Work performed by Contractor will be made by Engineer subject to the provisions of Paragraph 9.07.
- 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. Owner or Contractor may make a Claim for an adjustment in the Contract Price in accordance with Paragraph 10.05 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; and
- 2. there is no corresponding adjustment with respect to any other item of Work; and
- 3. Contractor believes that Contractor 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 12 – CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES

## 12.01 Change of Contract Price

- A. The Contract Price may only be changed by a Change Order. Any Claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.
- B. The value of any Work covered by a Change Order or of any Claim for 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, by application of such unit prices to the quantities of the items involved (subject to the provisions of Paragraph 11.03); or

- 2. where the Work involved is not covered by unit prices contained in the Contract Documents, by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 12.01.C.2); or
- 3. where the Work involved is not covered by unit prices contained in the Contract Documents and agreement to a lump sum is not reached under Paragraph 12.01.B.2, on the basis of the Cost of the Work (determined as provided in Paragraph 11.01) plus a Contractor's fee for overhead and profit (determined as provided in Paragraph 12.01.C).
- C. *Contractor's Fee:* 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 11.01.A.1 and 11.01.A.2, the Contractor's fee shall be 15 percent;
  - b. for costs incurred under Paragraph 11.01.A.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 12.01.C.2.a and 12.01.C.2.b is that the Subcontractor who actually performs the Work, at whatever tier, will be paid a fee of 15 percent of the costs incurred by such Subcontractor under Paragraphs 11.01.A.1 and 11.01.A.2 and that any higher tier Subcontractor and Contractor will each be paid a fee of five percent of the amount paid to the next lower tier Subcontractor;
  - d. no fee shall be payable on the basis of costs itemized under Paragraphs 11.01.A.4, 11.01.A.5, and 11.01.B;
  - 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 12.01.C.2.a through 12.01.C.2.e, inclusive.

### 12.02 Change of Contract Times

- A. The Contract Times may only be changed by a Change Order. Any Claim for an adjustment in the Contract Times shall be based on written notice submitted by the party making the Claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 10.05.
- B. Any adjustment of the Contract Times covered by a Change Order or any Claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Article 12.

#### 12.03 Delays

- A. Where Contractor is prevented from completing any part of the Work within the Contract Times due to delay beyond the control of Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a Claim is made therefor as provided in Paragraph 12.02.A. Delays beyond the control of Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility owners or other contractors performing other work as contemplated by Article 7, fires, floods, epidemics, abnormal weather conditions, or acts of God.
- B. If Owner, Engineer, or other contractors or utility owners performing other work for Owner as contemplated by Article 7, 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 Price or the Contract Times, or both. 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.
- C. If Contractor is delayed in the performance or progress of the Work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Contractor, then Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is 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 described in this Paragraph 12.03.C.

- D. Owner, Engineer, and their officers, directors, members, partners, employees, agents, consultants, or subcontractors shall not be liable to Contractor for any claims, costs, losses, or 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) sustained by Contractor on or in connection with any other project or anticipated project.
- E. Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Contractor. Delays attributable to and within the control of a Subcontractor or Supplier shall be deemed to be delays within the control of Contractor.

# ARTICLE 13 – TESTS AND INSPECTIONS; CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

#### 13.01 Notice of Defects

A. Prompt notice of all defective Work of which Owner or Engineer has actual knowledge will be given to Contractor. Defective Work may be rejected, corrected, or accepted as provided in this Article 13.

#### 13.02 Access to Work

A. Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests 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.

# 13.03 Tests and Inspections

- A. Contractor shall give Engineer timely notice of readiness of the Work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.
- B. Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:
- 1. for inspections, tests, or approvals covered by Paragraphs 13.03.C and 13.03.D below;

- 2. that costs incurred in connection with tests or inspections conducted pursuant to Paragraph 13.04.B shall be paid as provided in Paragraph 13.04.C; and
- 3. as otherwise specifically provided in the Contract Documents.
- 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 and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Engineer's acceptance of materials or equipment to be incorporated in the Work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Contractor's purchase thereof for incorporation in the Work. Such inspections, tests, or approvals shall be performed by organizations acceptable to Owner and Engineer.
- E. 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.
- F. Uncovering Work as provided in Paragraph 13.03.E shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.

# 13.04 Uncovering Work

- A. If any Work is covered contrary to the written request of Engineer, it must, if requested by Engineer, be uncovered for Engineer's observation and replaced at Contractor's expense.
- B. If Engineer considers it necessary or advisable that covered Work be observed by Engineer or inspected or tested by others, 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, furnishing all necessary labor, material, and equipment.

- C. If it is found that the uncovered Work is defective, 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 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 Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05.
- D. 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, Contractor may make a Claim therefor as provided in Paragraph 10.05.

#### 13.05 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, 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.

# 13.06 Correction or Removal of Defective Work

- A. Promptly after receipt of written notice, Contractor shall correct all defective Work, whether or not fabricated, installed, or completed, or, if the Work has been rejected by Engineer, remove it from the Project and replace it with Work that is not defective. 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 removal (including but not limited to all costs of repair or replacement of work of others).
- B. When correcting defective Work under the terms of this Paragraph 13.06 or Paragraph 13.07, Contractor shall take no action that would void or otherwise

impair Owner's special warranty and guarantee, if any, on said Work.

#### 13.07 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 land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.11.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:
  - 1. repair such defective land or areas; or
  - 2. correct such defective Work; or
- 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 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. 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) will be paid by Contractor.
- 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 13.07, 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 13.07 are in addition to any other obligation or warranty. The provisions of this Paragraph 13.07 shall not be construed as a substitute for, or a waiver of, the provisions of any applicable statute of limitation or repose.

### 13.08 Acceptance of Defective Work

A. If, instead of requiring correction or removal and replacement of defective Work, Owner (and, prior to Engineer's recommendation of final payment, Engineer) prefers to accept it, Owner may do so. 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) 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 pursuant to this sentence. If any such acceptance occurs prior to Engineer's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of Work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a Claim therefor as provided in Paragraph 10.05. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Contractor to Owner.

#### 13.09 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 in accordance with Paragraph 13.06.A, 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, 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 13.09, 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, take possession of Contractor's tools, appliances, construction equipment and machinery at the Site, 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 (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) incurred or sustained by Owner in exercising the rights and remedies under this Paragraph 13.09 will be charged against Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the Work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, Owner may make a Claim therefor as provided in Paragraph 10.05. 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 13.09.

# ARTICLE 14 – PAYMENTS TO CONTRACTOR AND COMPLETION

# 14.01 Schedule of Values

A. The Schedule of Values established as provided in Paragraph 2.07.A 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.

## 14.02 Progress Payments

### A. 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 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.

# B. Review of Applications:

- 1. Engineer will, within 10 days after receipt of each Application for Payment, 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 9.07, 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 Documents; 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 moneys 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 14.02.B.2. Engineer may also refuse to recommend any such payment or, because of subsequently

discovered evidence or the results of subsequent inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Engineer's opinion to protect Owner from loss because:

- a. the Work is defective, or completed Work has been damaged, requiring correction or replacement;
- b. the Contract Price has been reduced by Change Orders;
- c. Owner has been required to correct defective Work or complete Work in accordance with Paragraph 13.09; or
- d. Engineer has actual knowledge of the occurrence of any of the events enumerated in Paragraph 15.02.A.

#### C. Payment Becomes Due:

1. Ten days after presentation of the Application for Payment to Owner with Engineer's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due, and when due will be paid by Owner to Contractor.

### D. Reduction in Payment:

- 1. Owner may refuse to make payment of the full amount recommended by Engineer because:
  - a. claims have been made against Owner on account of Contractor's performance or furnishing of the Work;
  - b. 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;
  - c. there are other items entitling Owner to a set-off against the amount recommended; or
  - d. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 14.02.B.5.a through 14.02.B.5.c or Paragraph 15.02.A.
- 2. If Owner refuses to make payment of the full amount recommended by Engineer, Owner will give Contractor immediate written notice (with a copy to

Engineer) stating the reasons for such action 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, when Contractor remedies the reasons for such action.

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 14.02.C.1 and subject to interest as provided in the Agreement.

#### 14.03 Contractor's Warranty of Title

A. Contractor warrants and guarantees that title to all Work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner no later than the time of payment free and clear of all Liens.

#### 14.04 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 (except for items specifically listed by Contractor as incomplete) and request that Engineer issue a certificate of Substantial Completion.
- 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 tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven days after receipt of the tentative certificate during which to make written objection to Engineer as to any provisions of the certificate or attached list. If, after considering such objections, Engineer concludes that the Work is not substantially complete, Engineer will, within 14 days after submission of the tentative certificate to Owner, notify Contractor in writing, stating the reasons therefor. If, after consideration of Owner's objections, Engineer considers the Work substantially complete, Engineer will, within said 14 days, execute and deliver to Owner and Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected)

reflecting such changes from the tentative certificate as Engineer believes justified after consideration of any objections from Owner.

- D. At the time of delivery of the tentative certificate of Substantial Completion, Engineer will deliver to Owner and Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Contractor with respect to security, operation, safety, and protection of the Work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Contractor agree otherwise in writing and so inform Engineer in writing prior to Engineer's issuing the definitive certificate of Substantial Completion, Engineer's aforesaid recommendation will be binding on Owner and Contractor until final payment.
- E. 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 tentative list.

#### 14.05 Partial Utilization

- 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. Owner at any time may request Contractor in writing to permit Owner to use or occupy any such part of the Work which Owner believes to be ready for its intended use and 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 14.04.A through D for that part of the Work.
- 2. Contractor at any time may notify Owner and Engineer in writing that Contractor considers any such part of the Work ready for its intended use and 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 14.04 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 5.10 regarding property insurance.

#### 14.06 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 is incomplete or defective. Contractor shall immediately take such measures as are necessary to complete such Work or remedy such deficiencies.

#### 14.07 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, marked-up record documents (as provided in Paragraph 6.12), and other documents, Contractor may make application for final payment following the procedure for progress payments.
- 2. The final Application for Payment shall be accompanied (except as previously delivered) by:
  - a. all documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 5.04.B.6;
  - b. consent of the surety, if any, to final payment;
  - c. a list of all Claims against Owner that Contractor believes are unsettled; and
  - d. complete and legally effective releases or waivers (satisfactory to Owner) of all Lien

rights arising out of or Liens filed in connection with the Work.

- 3. In lieu of the releases or waivers of Liens specified in Paragraph 14.07.A.2 and as approved by Owner, Contractor may furnish receipts or releases in full and an affidavit of Contractor that: (i) the releases and receipts include all labor, services, material, and equipment for which a Lien could be filed; and (ii) 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.
- 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 Documents have been fulfilled, Engineer will, within ten days after receipt of the final Application for Payment, indicate in writing Engineer's recommendation of payment and present the Application for Payment to Owner for payment. 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 14.09. 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. Payment Becomes Due:

1. Thirty days after the presentation to Owner of the Application for Payment and accompanying documentation, the amount recommended by Engineer, less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and will be paid by Owner to Contractor.

## 14.08 Final Completion Delayed

A. If, through no fault of Contractor, final completion of the Work is significantly delayed, and if Engineer so confirms, Owner shall, upon receipt of

Contractor's final Application for Payment (for Work fully completed and accepted) and recommendation of Engineer, and without terminating the Contract, make payment of the balance due for that portion of the Work fully completed and accepted. If the remaining balance to be held by Owner for Work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 5.01, the written consent of the surety to the payment of the balance due for that portion of the Work fully completed and accepted shall be submitted by Contractor to Engineer with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of Claims.

#### 14.09 Waiver of Claims

- A. The making and acceptance of final payment will constitute:
- 1. a waiver of all Claims by Owner against Contractor, except Claims arising from unsettled Liens, from defective Work appearing after final inspection pursuant to Paragraph 14.06, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from Contractor's continuing obligations under the Contract Documents; and
- 2. a waiver of all Claims by Contractor against Owner other than those previously made in accordance with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

# ARTICLE 15 – SUSPENSION OF WORK AND TERMINATION

#### 15.01 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 notice in writing to Contractor and Engineer which will fix the date on which Work will be resumed. Contractor shall resume the Work on the date so fixed. Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Contractor makes a Claim therefor as provided in Paragraph 10.05.

#### 15.02 Owner May Terminate for Cause

A. The occurrence of any one or more of the following events will 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 established under Paragraph 2.07 as adjusted from time to time pursuant to Paragraph 6.04);
- 2. Contractor's disregard of Laws or Regulations of any public body having jurisdiction;
- 3. Contractor's repeated disregard of the authority of Engineer; or
- 4. Contractor's violation in any substantial way of any provisions of the Contract Documents.
- B. If one or more of the events identified in Paragraph 15.02.A occur, Owner may, after giving Contractor (and surety) seven days written notice of its intent to terminate the services of Contractor:
- 1. exclude Contractor from the Site, and take possession of the Work and of all Contractor's tools, appliances, construction equipment, and machinery at the Site, and use the same to the full extent they could be used by Contractor (without liability to Contractor for trespass or conversion);
- 2. 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
- 3. complete the Work as Owner may deem expedient.
- C. If Owner proceeds as provided Paragraph 15.02.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 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) sustained by Owner arising out of or relating to completing the Work, such excess will be paid to Contractor. If such claims, costs, losses, and damages exceed 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.

- D. Notwithstanding Paragraphs 15.02.B and 15.02.C, Contractor's services will not be terminated if Contractor begins within seven days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than 30 days of receipt of said notice.
- E. 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. Any retention or payment of moneys due Contractor by Owner will not release Contractor from liability.
- F. If and to the extent that Contractor has provided a performance bond under the provisions of Paragraph 5.01.A, the termination procedures of that bond shall supersede the provisions of Paragraphs 15.02.B and 15.02.C.

# 15.03 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;
- 3. 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) incurred in settlement of terminated contracts with Subcontractors, Suppliers, and others; and
- 4. reasonable expenses directly attributable to termination.
- B. Contractor shall not be paid on account of loss of anticipated profits or revenue or other economic loss arising out of or resulting from such termination.

## 15.04 Contractor May Stop Work or Terminate

- A. If, through no act or fault of Contractor, (i) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (iii) 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 15.03.
- 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 15.04 are not intended to preclude Contractor from making a Claim under Paragraph 10.05 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 16 - DISPUTE RESOLUTION**

#### 16.01 Methods and Procedures

- A. Either Owner or Contractor may request mediation of any Claim submitted to Engineer for a decision under Paragraph 10.05 before such decision becomes final and binding. The mediation will be governed by the Construction Industry Mediation Rules of the American Arbitration Association in effect as of the Effective Date of the Agreement. The request for mediation shall be submitted in writing to the American Arbitration Association and the other party to the Contract. Timely submission of the request shall stay the effect of Paragraph 10.05.E.
- B. Owner and Contractor shall participate in the mediation process in good faith. The process shall be concluded within 60 days of filing of the request. The date of termination of the mediation shall be determined by application of the mediation rules referenced above.
- C. If the Claim is not resolved by mediation, Engineer's action under Paragraph 10.05.C or a denial pursuant to Paragraphs 10.05.C.3 or 10.05.D shall become

final and binding 30 days after termination of the mediation unless, within that time period, Owner or Contractor:

- 1. elects in writing to invoke any dispute resolution process provided for in the Supplementary Conditions; or
- 2. agrees with the other party to submit the Claim to another dispute resolution process; or
- 3. gives written notice to the other party of the intent to submit the Claim to a court of competent jurisdiction.

#### **ARTICLE 17 – MISCELLANEOUS**

# 17.01 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 to the individual or to a member of the firm or to an officer of the corporation for whom it is intended; or
- 2. delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

#### 17.02 Computation of Times

A. When any period of time is referred to in the Contract Documents 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.

#### 17.03 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 Documents. 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.

#### 17.04 Survival of Obligations

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

#### 17.05 Controlling Law

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

#### 17.06 Headings

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

#### SUPPLEMENTARY CONDITIONS

These Supplementary Conditions amend or supplement the Standard General Conditions of the Construction Contract as indicated below. 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-1.01. Add the following language at the end of Paragraph 1.01.A.19:

Engineer is the General Superintendent for the Sewerage and Water Board of New Orleans or delegate and has the authority provided in this Contract to approve or disapprove all changes to the Contract documents.

SC-1.01. Add the following language at the end of Paragraph 1.01.A.44:

Substantial Completion is further defined as (i) that degree of completion of the Project's operating facilities or systems sufficient to provide Owner the full time, uninterrupted, and continuous beneficial operation of the Work; and (ii) required functional, performance and acceptance, or startup testing has been successfully demonstrated for components, devices, equipment, and instrumentation and control to the satisfaction of Engineer in accordance with the requirements of the Specifications.

SC-1.01. Add the following new paragraphs immediately after Paragraph 1.01.A.51:

1.01.A.52. *Specialist*—The term Specialist refers to a person, partnership, firm, or corporation of established reputation (or if newly organized, whose personnel have previously established a reputation in the same field), which is regularly engaged in, and which maintains a regular force of workers skilled in either (as applicable) manufacturing or fabricating items required by the Contract Documents, or otherwise performing Work required by the Contract Documents. Where the Specifications require the installation by a Specialist, that term shall also be deemed to mean either the manufacturer of the item, a person, partnership, firm, or corporation licensed by the manufacturer, or a person, partnership, firm, or corporation who will perform the Work under the manufacturer's direct supervision.

1.01.A.53. *Construction Coordinator*—The term Construction Coordinator, where and when used, refers to an authorized representative of Owner or Engineer who may be assigned to the Site or any part thereof to monitor and oversee construction activities by Contractor. Synonymous with Resident Project Representative (RPR) and Owner's Representative.

- 1.01.A.54 *Owner's Representative*—The term Owner's Representative, where and when used, refers to an authorized representative of Owner who may be assigned to the Site or any part thereof to monitor and oversee construction activities by Contractor. Synonymous with Resident Project Representative (RPR) and Construction Coordinator.
- 1.01.A.55 Abnormal Weather Conditions Weather that could not have been reasonably anticipated, based on previous weather history over the past 3 years, such as rainfall or lightning at the Site, which, as mutually agreed in writing by the Contractor Representative and Owner Representative, that reasonably prevents a significant majority of the planned Work at the Site from being safely executed, and which therefore requires Contractor to evacuate or stand down fifty percent (50%) (or more) of Contractor's direct craft workforce for a Day.
- 1.01.A.57 *Liquidated Damages* -The damages the Owner will incur if the Project is not completed within the Contract Time(s) specified.
- 1.01.A.58 *Material Breach* Any substantial, unexcused non-performance. The breach is either failing to perform an act that is an important part of the transaction or performing an act inconsistent with the terms and conditions of the contract.
- 1.01.A.59 36. Request for Information (RFI) A written request, from the Contractor to the Engineer that asks for additional information or to clarify some aspect of the project, such as procedures, equipment, materials, specification details or drawing details.
- SC-2.01. Delete the wording "and Owner" and "each" in lines 2 and 7 in Paragraph 2.01.B
- SC-2.02. Amend first sentence in Paragraph 2.02. A to read as follows:
  - 2.02.A. Upon award of Contract, Owner will furnish Contractor with complete conformed project documents (Drawings and Project Manual) in electronic format.
- SC-2.03. Delete the wording "on the thirtieth day after the Effective Date of the Agreement or, if a Notice to Proceed is given". Delete the third sentence of Paragraph 2.03.A in its entirety.
- SC-2.05. Replace Paragraphs 2.05.A.1 and 2.05.A.2 with the following:
  - 2.05.A.1 an Initial Construction Baseline Schedule and Schedule Narrative Report in accordance with the Contract documents, 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 Documents;
  - 2.05.A.2 a preliminary schedule of Shop Drawing and Sample submittals which will list each required submittal and the times for submitting it in keeping with the General Requirements and a tentative procurement

v1 00 73 00 - 2

SC-2.07. Delete Paragraph 2.07.A.1 and replace with the following:

2.07.A.1 The Preliminary Progress schedule, Detailed Baseline Schedule, and Detailed Progress Schedule(s) will be acceptable to Engineer if: (a) it is prepared by personnel having substantial experience in the use of the latest version of Oracle Primavera software unless approved otherwise by Owner; (b) it provides a reasonable allocation of the Contract to component parts of the Work; and (c) it provides an orderly progression of the Work to completion within any specified Milestones and the Contract Times. Such acceptance will not impose on the Owner or Engineer's responsibility for the progress schedule, for sequencing, scheduling, or progress of the Work nor interfere with or relieve Contractor from Contractor's full responsibility.

- SC-3.01. Add the following new paragraph immediately after Paragraph 3.01.C:
  - 3.01.D. Sections of Division 01, General Requirements, govern the execution of the Work of all sections of the Specifications.
- SC-4.02. Add the following new paragraph(s) immediately after Paragraph 4.02.B:
  - 4.02.C. The following reports, if any, of explorations and tests of subsurface conditions at or contiguous to the Site are known to Owner:

4.02.C.1.	[]	
-----------	----	--

- 4.02.D. The following drawings of physical conditions, if any, relating to existing surface and subsurface structures at the Site (except Underground Facilities) are known to Owner:
  - 4.02.D.1. Record drawings of the Main Water Purification Plant.
- 4.02.E. Copies of reports and drawings itemized in SC-4.02.C and SC-4.02.D that are not included with Bidding Documents may be examined at Owner's offices during regular business hours. These reports and drawings are not part of the Contract Documents, but the "technical data" contained therein upon which Contractor may rely, as expressly identified and established above, are incorporated in the Contract Documents by reference. Contractor is not entitled to rely upon any other information and data known to or identified by Owner.
- SC-4.06. Delete Paragraphs 4.06.A and 4.06.B in their entirety and insert the following in their place:
  - 4.06.A. No reports or drawings related to Hazardous Environmental Conditions are known to Owner.
- SC-5.01. Delete in Paragraph 5.01.A first sentence the wording "and payment"

# SC-5.02. Add the following new paragraph immediately after Paragraph 5.02.A:

SC-5.02.B. As an alternative to the requirements in paragraph A above, bonds may also be provided by a Louisiana Domiciled Insurance company with at least an A.M. Best's Financial Strength Rating of A minus (A-) rating, or the bond shall be written by an insurance company that is either domiciled in Louisiana or owned by Louisiana residents and is licensed to write surety bonds. In addition, any surety bond written for a public works project shall be written by a surety or insurance company that is currently licensed to do business in the State of Louisiana. Surety and insurance companies from which the bonds and insurance for this Project are purchased under the provisions of paragraph 5.02. A shall have an A.M. Best's Financial Strength Rating of A minus (A-) or better with a Financial Size Category of no less than VII, in addition to other requirements specified herein.

# SC-5.04. Add the following language after Paragraph 5.04.B.1:

Policies will endorse the following parties or entities as additional insured:

5.04.B.1.a. Sewerage and Water Board of New Orleans, 625 St. Joseph Street, New Orleans, Louisiana 70165

5.04.B.1.b. The City of New Orleans, 1300 Perdido Street, New Orleans, Louisiana 70112

5.04.B.1.d. [\_\_\_\_]
5.04.B.1.e. [\_\_\_\_]

SC-5.04. Add the following new paragraph immediately following Paragraph 5.04.B:

## 5.04.C. Insurance: General Requirements

The Contractor will maintain, at his own cost and expense, and in good standing, such insurance as will protect the Sewerage and Water Board of New Orleans (the Board), the City of New Orleans (the City,) their officers, officials, employees, boards, commissions and volunteers, as well as the Contractor himself and any subcontractors from and against any and all claims for damages to public and private property and personal injury, including death, to employees or to the public, which may arise from any operations under this Contract or any of its subcontracts. The coverage will contain no special limitations on the scope of protection afforded to the Board and the City. Both the Board and the City will appear as "Additional Insured" on all Commercial General Liability and Business Automobile Liability. Any failure to comply with the reporting provisions of a policy will not affect coverage provided to the Board and the City, their officers, officials, employees, boards and commissions and volunteers. The Contractor's insurance will apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.

SUPPLEMENTARY CONDITIONS 00 73 00 - 4 In general, insurance is to be placed with insurers with an A.M. Best's rating of A:V, although this requirement may be reviewed and modified by the Risk Manager of the Sewerage and Water Board of New Orleans in the best interest of the Board. The Risk Manager may also consider performing such review upon written request from the Contractor. The Contractor shall furnish the Sewerage and Water of New Orleans with certificates of insurance affecting coverage required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates of insurance are to be received and approved by the Risk Manager of the Sewerage and Water Board of New Orleans, 625 St. Joseph St., Rm. 119, New Orleans, LA 70165, before work commences. The Sewerage and Water Board of New Orleans reserves the right to require complete, certified copies of all insurance policies at any time, as proof that the insurance placed meets the requirements of this Contract.

If the insurance is written subject to a deductible clause, Contractor assumes responsibility for the amount of the deductible. In addition, the Contractor shall be required to furnish to the Risk Manager of the Sewerage and Water Board of New Orleans all copies of investigative reports with regard to any and all claims with the Contractor and his insurance carriers, relative to the contract, with the exception of claims filed with his Workers' Compensation Insurance. Such reports shall include dates, location and description of loss as well as amounts of settlements or judgments in order that annual aggregate limits maybe monitored by the Sewerage and Water Board of New Orleans for the Contactor's compliance with these Specifications.

The furnishing of insurance as provided above shall not relieve the Contractor of his responsibility for losses not covered by insurance. All policies shall be with insurance companies authorized to do business in Louisiana and shall remain in full force and effect until the final completion of the work and acceptance thereof by the authority of the Board.

# 5.04.C.1 Subrogation

The Contractor, Subcontractor(s), and their insurers shall agree to waive all the rights of subrogation against the Board, the City, and their officers, officials, employees, boards and commissions, and volunteers for losses arising from work performed by the Contractor for the Board and the City.

# 5.04.C.2. Insurance Cancellations and Stop-Work

Each insurance policy required by this contract shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, or reduced in coverage or in limits except after thirty (30) days prior written notice has been given to the Risk Manager, 625 St. Joseph St., Rm. 119, New Orleans, LA 70165, of the Sewerage & Water Board of New Orleans, via certified mail.

The Contractor and/or his insurer shall notify the Risk Manager of the Sewerage and Water Board of New Orleans at least thirty (30) days in advance of any insurance coverage to be canceled or of any insurance

v1 00 73 00 - 5

coverage that will expire. The Contractor shall simultaneously furnish the Board evidence of new coverage to be effective the same day and hour of the expired or canceled coverage.

In the event the Contractor and/or his insurer fails to submit this evidence of new coverage five (5) days prior to the cancellation date or expiration date of any policy or policies, the Sewerage and Water Board will have the right to obtain the required coverage to become effective on the date of cancellation or expiration of said policies. The cost of such new policies shall be at the expense of the Contractor and any expenditure incurred by the Board for this coverage will be deducted from any balance due to the Contractor.

Should the Board be unable to secure new coverage to take the place of the expired or cancelled policy or policies, a "stop work" order will issued and all work on the contract shall cease on the same date and hour as the coverage ceases. Should the Contractor fail or refuse to secure coverage within five (5) days after the date of the "stop work" order, the Contractor shall be declared to be in default, and the contract between the parties shall be considered cancelled and of no force or effect between the parties reserving all the rights of the Board against the Contractor and his surety.

5.04.C.3. Insurance Policies, Endorsements, and Limits Required

The following are the types of insurance policies and the minimum limits of insurance coverage which shall be maintained by the Contractor during the entire term of the Contract:

# 5.04.C.3.a. WORKERS' COMPENSATION AND EMPLOYERS LIABILITY INSURANCE

WORKERS' COMPENSATION AND EMPLOYERS LIABILITY INSURANCE, as will protect Contractor from claims under Louisiana Workers' Compensation Laws. The Workers' Compensation section of the policy shall afford Statutory Limits and be in accordance with all Louisiana Workers' Compensation Statutes. The Employers Liability limit shall not be less than \$3,000,000 each accident for bodily injury by accident and \$3,000,000 each employee/policy limit for bodily injury by disease. Whenever any Federal Longshoreman's and Harbor Workers' Act, and shall also include protection for injuries and/or death to Master and Members of the crews of vessels with statutory limits in accordance with the Jones Act.

# 5.04.C.3.b. COMMERCIAL GENERAL LIABILITY INSURANCE

SUPPLEMENTARY CONDITIONS 00 73 00 - 6 COMMERCIAL GENERAL LIABILITY INSURANCE, with a limit of not less than \$2,000,000 each occurrence and not less than \$4,000,000 general annual aggregate, including Explosion, Collapse, and Underground Property Damage Hazards. The Products-Completed Operations aggregate limit shall not be less than \$2,000,000 each occurrence. The general aggregate limit shall apply separately to this project.

# 5.04.C.3.c. BUSINESS AUTOMOBILE LIABILITY INSURANCE

BUSINESS AUTOMOBILE LIABILITY INSURANCE, which shall cover liability arising out of accidents involving any auto (including Owned, Hired, and Non-Owned autos). The limit of liability shall not be less than \$1,000,000 each accident for all injuries, property damage, and/or death resulting from any one occurrence.

# 5.04.C.3.d. OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE

OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE, as will protect the Contractor, the Sewerage and Water Board of New Orleans, and the City of New Orleans from and against any and all claims and lawsuits involving vicarious liability. The limits of liability shall be the same as specified in Paragraph (b) above, and shall include Explosion, Collapse and Underground Hazards.

## 5.04.C.3.e. PROFESSIONAL LIABILITY INSURANCE

PROFESSIONAL LIABILITY INSURANCE, as may be applicable to the particular profession or service to be provided, with a limit of not less than \$2,000,000 each Claim, with at least a \$4,000,000 annual aggregate, without any restrictive "negligent act, negligent error, or negligent omission" clause, and sufficient to protect the Contractor, the Board, and the City, for a five (5) year period from completion of this contract, against any and all claims which may arise from the Contractor's negligent performance of work described herein.

# 5.04.C.3.f. PROPERTY INSURANCE

PROPERTY INSURANCE, required on all work except sewer and water drainage pipelines, reinforced concrete canals, work completely underground, and similar work (however Contractor is not relieved of responsibility therefore) as follows:

5.04.C.3.f(1).

ALL RISKS BUILDERS RISK INSURANCE (covering Fire, Extended Coverage, Vandalism and Malicious Mischief) will be carried on a completed value or reporting form, for not less than 100 percent of the value of the work, including foundations.

Coverage will include all machinery and equipment to be installed, whether furnished by the Sewerage & Water Board or by Contractor, for not less than 100 percent of the installed value of the machinery and equipment. This insurance shall be written in the same Insurance Company carrying the Builder's Risk Insurance, shall include testing and startup, shall for partial utilization of the Work by Owner, and shall terminate only when installation has been accepted by the Sewerage and Water Board.

The All Risks Builder's Risk Policy shall include the names of the Sewerage & Water Board of New Orleans, and City of New Orleans, and will cover the interests of all subcontractors without specifically naming them.

5.04.C.3.g. WORKERS' COMPENSATION AND UNEMPLOYMENT COVERAGE, ADDITIONAL CONDITIONS

5.04.C.3.g(1)

WORKERS' COMPENSATION: The Contractor expressly agrees and acknowledges that it is an "independent contractor" as defined in LSA-R.S.23:1021(6), and that its employees shall not be considered employees of the Board for workers' compensation benefits or coverage.

5.04.C.3.g(2)

EXCLUSIVE OF UNEMPLOYMENT COMPENSATION COVERAGE: Contractor herein expressly agrees and acknowledges that it is an "independent contractor" as defined in LSA-R.S.23:1472(E0, that neither the contractor nor any one employed by the Contractor shall be considered an employee of the Board for the purpose of employment of compensation coverage.

- SC-5.06. Delete Paragraph 5.06.A in its entirety.
- SC-5.06. Delete Paragraph 5.06.B in its entirety.
- SC-5.06. Delete Paragraph 5.06 E in its entirety.

SC-5.07. Delete third sentence of Paragraph 5.07.A in its entirety and insert the following in its place:

Contractor and Contractor's insurers waive all rights against Owner and their 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 Subcontractors and Engineer, and all other individuals or entities identified in the Supplementary Conditions as loss payees (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.

SC-5.07. Delete the last sentence of Paragraph 5.07.A in its entirety and insert the following in its place:

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 Contractor as trustee or otherwise payable under any policy so issued.

- SC-5.07. Delete Paragraph 5.07.B in its entirety.
- SC-5.07. Delete Paragraph 5.07.C in its entirety.
- SC-5.08. Delete Paragraph 5.08.A in its entirety.
- SC-5.08. Delete Paragraph 5.08.B in its entirety.
- SC-6.01. Delete Paragraph 6.01 in its entirety and replace with the following:
  - 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. Contractor shall not be responsible for the negligence of Owner or Engineer in the design or specification of a specific means, method, technique, sequence, or procedure of construction which is shown or indicated in and expressly required by the Contract Documents.
  - 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. The

v1 00 73 00 - 9

resident superintendent shall be a full-time employee of the Contractor. The Owner may, at its sole discretion, require replacement of the superintendent, in which case Contractor shall submit an acceptable replacement at no increase in Contract Price nor extension in Contract Times. The superintendent will be Contractor's representative at the Site and shall have authority to act on behalf of Contractor.

C. Contractor shall ensure that all employees performing or furnishing any of the Work will be prohibited from using firearms, engaging in hunting, fishing, trapping, using illegal drugs or using alcohol either on the work site, on Owner property, or on any land adjoining the work site.

D. Contractor shall ensure that all employees performing or furnishing any of the Work will be prohibited from trespassing on any land adjoining the work site

SC-6.02. Delete Paragraph 6.02.A in its entirety and replace with the following:

6.02.A Contractor shall provide competent, qualified personnel to perform construction as required by the Contract Documents. Contractor shall employ a Professional Land Surveyor with current Louisiana registration to survey and lay out the work (in accordance with any additional provisions included in the General Requirements). Contractor is fully responsible to provide a sufficient number of skilled workers and supervisory personnel to perform the Work and ensure that the Work is completed within the Contract Time. Failure to fully man the Project with supervisory personnel and skilled workers shall be cause for termination of Contractor.

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

6.02.C. Contractor shall reimburse Owner for Engineer's additional extraordinary costs for onsite personnel overtime work resulting from Contractor's overtime operations. Reimbursement shall be on the cost basis defined in Paragraph 14.02.D.4 of these Supplementary Conditions.

SC-6.03. Add the following new paragraphs immediately after Paragraph 6.03.C:

v1

6.03.D. Manufacturers' or Suppliers' warranties for all materials products and equipment to be furnished by Contractor and to be incorporated into the completed Work shall be furnished to the Owner through Contractor. Contractor shall obtain from Suppliers of all materials, products and equipment, complete information as to any special condition or restriction to be applied in the use of these items. Should the manner or method of installation, specified performance or test results as set forth in the Specifications be contrary to the Manufacturer's recommendations for use of the product, Contractor shall notify the Engineer in writing of such conflict as soon as reasonably possible, but no later than the time of Shop Drawing submittal including those products. Failure to provide such written notice before

SUPPLEMENTARY CONDITIONS 00 73 00 - 10 proceeding with the Work affected thereby shall be certification by Contractor that the specification requirements will be met by the materials, products and equipment, and that the cost and time required to perform the Work affected thereby have been included in the Contract Price and in the schedule for the performance of the Work within the Contract Time.

## 6.03.E. Domestic Manufacture:

6.03.E.1. All equipment to be furnished and components of all items specified herein, except bearings, shall be of domestic produce, manufacture and assembly, i.e., manufactured and assembled within the limits of the United States. Parts must be available from suppliers that manufacture components in the USA. The Board reserves the right to waive this requirement if, in the opinion of the Engineer, it appears to be in the best interests of the Board.

6.03.E.2. Sewerage and Water Board staff will determine the ability of the lowest bidder to design and build the equipment and machinery specified hereon. Along with other factors to be considered by Sewerage and Water Board staff will be the manufacturer's facilities, listings of similar equipment and installations, equipment reliability and longevity. Should the lowest bidder be found "non-responsive", then an informal hearing will be held to provide the lowest bidder the opportunity to refute the reasons for disqualification.

# SC-6.04. Add the following language at the end of Paragraph 6.04.A.1:

Contractor further hereby acknowledges that the Contract Times for performance is reasonable and that all costs for schedule compliance are included in the Contract Price.

## SC-6.04. Add the following language at the end of Paragraph 6.04.A.2

The Contractor shall not alter the schedule for proposed substitutions, delays, or claims in anticipation of a Change Order, but rather will provide a proposed schedule revision with the Change Order, if requested by the Engineer, which will become effective with approval of the change.

# SC-6.05. Add the following language at the end of Paragraph 6.05.E:

Reimbursement rates for Engineer or their officers, directors, members, partners, employees, agents, and other consultants and subcontractors for evaluation of proposed substitutes shall be on the basis established in Paragraph 14.02.D.4 of these Supplementary Conditions.

# SC-6.06. Add the following new paragraph immediately after Paragraph 6.06.G:

6.06.H. 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 a particular Subcontractor or Supplier.

# SC-6.08. Add the following language:

#### 6.08 Permits:

- A. Before commencing work, the Contractor shall obtain, at his own expense, any required permits from the City of New Orleans. The Contractor shall also secure, at his own expense, any necessary inspection certificates required after the work is completed.
- B. Evidence of compliance shall be furnished to the Board prior to starting work, in the case of permits, or within 10 calendar days after completion of that work requiring inspection certificates.
- SC-6.11. Add the following language to the end of Paragraph 6.11.A.1:

Contractor shall not enter upon nor use property not under Owner control until appropriate easements have been executed and a copy is on file at the Site.

- SC-6.13. Add the following new paragraphs immediately after 6.13.C:
  - 6.13.C.1. The Owner's Safety Orientation Notice is applicable to the Work and is appended to these Supplementary Conditions.
  - 6.13.C.2. The Owner's Drug-Free Workplace Policy is applicable to the Work and is appended to these Supplementary Conditions.
  - 6.13.C.3. Owner's Safety Clearance Procedure

# **Definitions:**

**Operator:** The Board employee who is onsite and in responsible charge of the operation of the plant, station, or other facility.

Out of Service: The electrical/mechanical disconnection of equipment which is to remain inoperable.

**Power Dispatcher:** The shift employee on duty at Central Control at the time safety clearance occurs.

**Signee:** The person who actually tags-out equipment for safety clearance.

**Supervisor/Foreman:** The Board employee who is the supervisor/foreman in responsible charge of the repair/maintenance of one or more work locations which requires safety clearance. This person may not necessarily be "onsite" at any particular location.

**Tag-out:** The physical tagging of equipment by an operator for the purpose of disabling equipment.

**Lock-out:** The physical locking of equipment by an operator for the purpose of disabling equipment.

#### **General Provisions**

- 1) All equipment repair/maintenance work which is scheduled and requires safety clearance should be presented to Central Control at the beginning of each work day by the supervisor/foreman/electrical engineer in charge of the repair/maintenance. Twenty four (24) hour advance notice of scheduled work for major outages is desirable; however, it is understood that due to the nature of the services provided by the Board this preferred notice may not be possible for every safety clearance.
- 2) In cases where two or more crafts are working on, or require safety clearance on the same equipment, the supervisor/foreman/electrical engineer for each craft must follow the appropriate safety clearance procedure and the equipment must be tagged out for each craft's signee. No equipment can be tested and/or restored to service until all tags have been removed in accordance with the tag removal procedure.
- 3) When an operator requests service for equipment at an unmanned facility, i.e. an unmanned sewer station or unmanned underpass station, from either Electrical Maintenance or Mechanical Maintenance, the appropriate maintenance department shall request the responsible operator to tag-out the equipment. When the appropriate maintenance department, in the course of servicing this equipment, requires restoration of power, the appropriate maintenance department shall contact the responsible operator directly (if operator is present) or by radio or telephone (if operator is absent) and request that the responsible operator grant his permission. If the power is to be restored for only a short duration, the appropriate maintenance department shall thereafter contact the operator for permission to either remove power or restore power, as often as needed. The operator shall log each request. If the request to restore power is for a short duration only, and the operator does not received contact from the appropriate maintenance personnel to remove power again, the operator shall make every attempt to contact the appropriate maintenance personnel in order to ensure that no accident has occurred.
- 4) If equipment must remain "Out of Service" upon completion of the onsite work, the signee must request their tag be replaced with an "Out of Service" tag in the name of their department: e.g. "Out of Service Electrical Maintenance", in addition it must be physically locked-out by that department. However the "Out of Service" tag does not relinquish the responsibility of following the safety clearance procedure each day that piece of equipment is worked on.
- 5) Any equipment restored to service after being tagged "Out of Service" must be tested through operational test procedures. The signee must remain, when possible, on-site until testing is complete.

- 6) Any individual involved in these procedures may halt the procedure at any time if it is felt the safety of the personnel and/or equipment warrants said stoppage, or if conditions within the system change that may require postponement of the work.
- 7) In the event the responsible person, signee, leaves the job site without releasing the cleared equipment and is unreachable to release their tag-out the following procedure must be enacted before the signees name, tag-out, can be removed from the cleared equipment.
- a) Cause must be established by the senior power dispatcher giving reason to remove the tag-out.
- b) Senior power dispatcher must receive orders from the Chief of Operations or higher, in his absence, to remove said tag-out.
- c) Concurrence given by a senior representative of the following:
  - Department or company to which the signee works for.
  - Senior representative of the plant, station, facility in which the tagout occurs.
  - If jobsite is in the field then, inspection by Electrical Engineering assuring work has halted for the day.
- d) Once all areas have been satisfied then the senior power dispatcher may have the signees tag-out removed.

# NOTE: The above and following procedures may be deviated from above at the discretion of the power dispatcher in cases of emergency.

- SC-6.11. Add the following language to the end of Paragraph 6.11.D:
  - 6.11.D. *Water and Other Utilities*. It is the responsibility of the Contractor to make all necessary arrangements for the provision of water, electricity, drainage, sanitary sewage disposal, gas, compressed air, and any other utility service required to prosecute the work of this contract. Water used by the Contractor at the job site will be furnished by the Board at no cost to the Contract, if conditions permit. Costs of all other services shall be borne by the Contractor.
  - 6.11.E. *Hydrant Connections*. Connections to fire hydrants shall only be made with meters obtained from the Sewerage and Water Board Customer Service Department, 504-585-2097, which shall record water usage for record purposes and which shall be returned to the Board as a condition of acceptance of the Contract. Application for the meter requires a \$1,500.00 deposit that is refundable upon return of the meter in undamaged and operable condition. The hydrant meter application and instructions are available on the Sewerage and Water Board website: <a href="https://www.swbno.org/custserv">https://www.swbno.org/custserv</a> information docs.asp.
- SC-6.17. Add the following new paragraphs immediately after Paragraph 6.17.E.1:
  - 6.17.E.2. Contractor shall furnish required submittals with sufficient information and accuracy in order to obtain required approval of an item with no more than the number of submittals specified in Paragraph 14.02.D.4 of these Supplementary

SUPPLEMENTARY CONDITIONS 00 73 00 - 14 Conditions. Engineer will record time for reviewing subsequent submittals of Shop Drawings, Samples, or other items requiring approval and Contractor shall reimburse Owner for Engineer's charges for such time in accordance with Paragraph 14.02.D.4 of these Supplementary Conditions.

6.17.E.3. In the event Contractor requests a substitution for a previously approved item, Contractor shall reimburse Owner for Engineer's charges for such time, unless the need for such substitution is beyond the control of Contractor.

SC-7.02. Delete Paragraphs 7.02.A and 7.02.B in their entirety and insert the following in their place:

- 7.02.A. Owner intends to contract with others for the performance of other work on the Project at the Site. The authority and responsibility of the Construction Coordinator for the various prime contractors, utility owners, and Owner (if present at the Site) shall be as follows:
  - 7.02.A.1 Owner's Representative: Shall have authority and responsibility for coordination of the various contractors at the Site. Owner's Representative shall be named by the Owner if necessary.
  - 7.02.A.2. Specific matters to be covered by such authority and responsibility: Prioritization of work activity should conflicts occur in work areas between contractors or between contractor and Owner's operations; approval of requests to curtail, interrupt, or otherwise disrupt Owner operation to allow Contractor work to be scheduled and/or occur; cancellation of scheduled Contractor activity in the event Owner requirements supersede prior plans; other issues that require approval or prioritization relative to interference with Owner operations or conflicts with other.
  - 7.02.A.3. Extent of such authority and responsibility: Owner's Representative decision and direction to Contractor shall be final. Planning and discussions to coordinate options relative to operational disruptions requested by Contractor will be scheduled by Owner's Representative. Owner's Representative will review and respond to requests by the Contractor for outage, interconnection, operational disruption, contract activity prioritization, or the like, within 10 business days.
  - 7.02.A.4. Limitations of such authority and responsibility: Owner's Representative may not modify the Contract or its terms and conditions.
- 7.02.B. Unless expressly assigned to the Construction Coordinator, all other authority and responsibility will remain vested with each prime contractor, utility owner, or Owner (if present at the Site).
- SC-7.04. Add the following new paragraph immediately after Paragraph 7.03:
- SC-7.04. Claims Between Contractors

7.04.A. Should Contractor cause damage to the work or property of any other contractor at the Site, or should any claim arising out of Contractor's performance of the Work at the Site be made by any other contractor against Contractor, Owner, Engineer, or the Construction Coordinator, if applicable, Contractor shall (without involving Owner, Engineer, or Construction Coordinator) either i) remedy the damage; ii) agree to compensate the other contractor for remedy of the damages; or iii) remedy the damages and attempt to settle with such other contractor by agreement, or to otherwise resolve the dispute by arbitration or at law.

7.04.B. Contractor shall, to the fullest extent permitted by Laws and Regulations, indemnify and hold harmless Owner, Engineer, the Construction Coordinator (if applicable) and the officers, directors, members, partners, employees, agents, and other consultants and subcontractors of each and any of them from and against all Claims, costs, losses and damages (including, but not limited to, fees and charges of engineers, architects, attorneys, and other professionals and court and arbitration costs) arising directly, indirectly or consequentially out of any action, legal or equitable, brought by any other contractor against Owner, Engineer, their officers, directors, members, partners, employees, agents, and other consultants and subcontractors, or the Construction Coordinator (if applicable) to the extent said Claim is based on or arises out of Contractor's performance of the Work. Should another contractor cause damage to the Work or property of Contractor or should the performance of work by any other contractor at the Site give rise to any other Claim, Contractor shall not institute any action, legal or equitable, against Owner, Engineer, or the Construction Coordinator (if applicable) or permit any action against any of them to be maintained and continued in its name or for its benefit in any court or before any arbiter which seeks to impose liability on or to recover damages from Owner, Engineer, or the Construction Coordinator (if applicable) on account of any such damage or Claim.

7.04.C. If Contractor is delayed at any time in performing or furnishing the Work by any act or neglect of another contractor, and Owner and Contractor are unable to agree as to the extent of any adjustment in Contract Times attributable thereto, Contractor may make a Claim for an extension of times in accordance with Article 12. An extension of the Contract Times shall be Contractor's exclusive remedy with respect to Owner, Engineer, and Construction Coordinator (if applicable) for any delay, disruption, interference, or hindrance caused by any other contractor. This paragraph does not prevent recovery from Owner, Engineer, or Construction Coordinator (if applicable) for activities that are their respective responsibilities.

SC-8.02. Delete Paragraph 8.02.A in its entirety and replace with the following:

8.02.A. In case of termination of the employment of Engineer, Owner shall appoint an Engineer whose status in the Contract Documents shall be that of the former Engineer.

SC-8.06. Delete Paragraph 8.06.A in its entirety.

SC-8.11. Delete Paragraph 8.11.A in its entirety.

9.03.B. Resident Project Representative (RPR) will be furnished by Owner. The responsibilities, authority, and limitations of the RPR are limited to those of Engineer in accordance with Paragraph 9.09 and as set forth elsewhere in the Contract Documents and are further limited and described below.

# 9.03.C. Responsibilities and Authority:

- 9.03.C.1. Schedules: Review and monitor Progress Schedule, Schedule of Submittals, and Schedule of Values prepared by Contractor and consult with Engineer concerning acceptability.
- 9.03.C.2. Conferences and Meetings: Conduct or attend meetings with Contractor, such as preconstruction conferences, progress meetings, Work conferences and other Project related meetings.
- 9.03.C.3. Liaison: (i) Serve as Engineer's liaison with Contractor, working principally through Contractor's authorized representative, and assist in understanding the intent of the Contract Documents; (ii) assist Engineer in serving as Owner's liaison with Contractor when Contractor's operations affect Owner's onsite operations; (iii) assist in obtaining from Owner additional details or information when required for proper execution of the Work.
- 9.03.C.4. Interpretation of Contract Documents: Inform Engineer when clarifications and interpretations of the Contract Documents are needed and transmit to Contractor clarifications and interpretations as issued by Engineer.
- 9.03.C.5. Submittals: Receive submittals that are furnished at the Site by Contractor, and notify Engineer of availability for examination. Advise Engineer and Contractor of the commencement of any Work or arrival of materials and equipment at Site, when recognized, requiring a Shop Drawing or Sample if the submittal has not been approved by Engineer.
- 9.03.C.6. Modifications: Consider and evaluate Contractor's suggestions for modifications in Drawings or Specifications and provide recommendations to Engineer; transmit to Contractor, in writing decisions as issued by Engineer.
- 9.03.C.7. Review of Work and Rejection of Defective Work: (i) Conduct onsite observations of the Work in progress to assist Engineer in determining if the Work is, in general, proceeding in accordance with the Contract Documents; (ii) inform Engineer and Contractor whenever RPR believes that any Work is defective; (iii) advise Engineer whenever RPR believes that any Work 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

v1 00 73 00 - 17

requirements of any inspection test, or approval required to be made; and advise Engineer of that part of the Work in progress that RPR believes should be corrected or rejected or uncovered for observation, or requires special testing, inspection, or approval.

- 9.03.C.8. Inspections, Tests, and System Startups: (i) Verify tests, equipment and systems startups and operating and maintenance training are conducted in the presence of appropriate personnel, and that Contractor maintains adequate records thereof; (ii) observe, record, and report to Engineer appropriate details relative to the test procedures and system startups; and (iii) accompany visiting inspectors representing public or other agencies having jurisdiction over the Project, record the results of these inspections, and report to Engineer.
- 9.03.C.9. Records: (i) Maintain records for use in preparing Project documentation; (ii) keep a diary or log book recording pertinent Site conditions, activities, decisions and events; (iii) record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of Contractors, Subcontractors, and major Suppliers of materials and equipment.
- 9.03.C.10. 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.
- 9.03.C.12. Certificates, Operation and Maintenance Manuals: During the course of the Work, verify materials and equipment certificates and operation and maintenance manuals and other data required by Specifications 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 been delivered to Engineer for review and forwarding to Owner prior to payment for that part of the Work.
- 9.03.C.13. Completion: (i) Participate in a Substantial Completion inspection; assist in determination of Substantial Completion and the preparation of lists of items to be completed or corrected; (ii) Participate in a final inspection in the company of Engineer, Owner, and Contractor and prepare a final list of items to be completed and deficiencies to be remedied; and (iii) observe whether items on final list have been completed or corrected, and make recommendations to Engineer concerning acceptance.
- 9.03.D. Limitations of Authority: Resident Project Representative will not:
  - 9.03.D.1. have authority to authorize a deviation from Contract Documents or substitution of materials or equipment, unless authorized by Engineer; or

- 9.03.D.2, exceed the limitations of Engineer's authority as set forth in Contract Documents; or
- 9.03.D.3. undertake any of the responsibilities of Contractor, Subcontractors, Suppliers, or Contractor's authorized representative; or
- 9.03.D.4. advise on, issue directions relative to, or assume control over an aspect of the means, methods, techniques, sequences, or procedures of Contractor's work unless such advice or directions are specifically required by the Contract Documents; or
- 9.03.D.5 advise on, issue directions regarding, or assume control over safety practices, precautions, and programs in connection with the activities or operations of Owner or Contractor; or
- 9.03.D.6. participate in specialized field or laboratory tests or inspections conducted offsite by others, except as specifically authorized by Engineer; or
- 9.03.D.7. accept Shop Drawings or Samples from anyone other than Contractor; or
- 9.03.D.8. authorize Owner to occupy the Project in whole or in part.
- SC-9.09. Add the following new paragraph immediately after Paragraph 9.09.E:
  - 9.09.F. Contractors, Subcontractors, Suppliers, and others on the Project, or their sureties, shall maintain no direct action against Engineer, its officers, employees, affiliated corporations, and subcontractors, for any Claim arising out of, in connection with, or resulting from the engineering services performed. Only the Owner will be the beneficiary of any undertaking by Engineer.
- SC-10.03. Add the following new paragraphs immediately after Paragraph 10.03.A.3.
- 10.03.A.4. An executed Change Order shall be in accord and satisfaction concerning all potential claims related to the Change Order work including inefficiencies or acceleration-based claims.
- 10.03.A.5. There shall be no Contractor delay claim based upon Contractor's inability to perform Change Order work due to delay caused by Owner's approval process.
- SC-10.05. Delete Paragraphs 10.05.C through 10.05.E in their entirety and insert the following in their place and renumber Paragraph 10.05.F to read 10.05.D:
  - 10.05.C. Engineer's Action and Executive Negotiation:
    - 10.05.C.1. Engineer's Action:
      - 10.05.C.1.a. Engineer will render a formal decision in writing within 30 days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any. Engineer's written decision

SUPPLEMENTARY CONDITIONS 00 73 00 - 19 on such Claim, dispute or other matter will be final and binding upon Owner and Contractor, unless within 10 days after issuance of Engineer's written decision, either party appeals the decision by giving the other party and Engineer written notice of request for executive negotiation.

10.05.C.1.b. In the event Engineer does not take action on a Claim within said 30 days, the Claim shall be deemed denied.

# 10.05.C.2. Executive Negotiation:

10.05.C.2.a. Within 10 days of the delivery of notice of appeal to Engineer's written decision regarding Claim, dispute or other matter, senior representatives of at least Owner and Contractor, having authority to settle the dispute, and Engineer shall meet at a mutually acceptable time and place, and thereafter as often as they reasonably deem necessary, to exchange relevant information and to attempt to resolve the dispute.

10.05.C.2.b. In the event a mutually acceptable decision cannot be reached through executive negotiation within 20 days of the appealing party's notice, or mutually agreeable longer period, or if the party receiving such notice will not meet within 10 days, Owner or Contractor may make a written declaration, delivered to the other party and Engineer, that the executive negotiation is deemed unsuccessful and may initiate further dispute resolution measures in accordance with Article 16.

10.05.C.2.c. If no such dispute resolution procedures have been set forth in Article 16, a written notice of intention to further appeal Engineer's written decision shall be delivered by Owner or Contractor to the other and to Engineer within 30 days after the date upon which the executive negotiation has been declared unsuccessful, or within 60 days after Substantial Completion, whichever is later (unless otherwise agreed in writing by Owner and Contractor), to exercise such rights or remedies as the appealing party may have with respect to such Claim, dispute, or other matter in accordance with applicable Laws and Regulations.

SC-11.01. Delete Paragraph 11.01.A.5.c in its entirety and insert the following in its place:

## 11.01.A.5.c. Construction Equipment and Machinery:

11.01.A.5.c(1) Rentals of construction equipment and machinery, and the parts thereof 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. Such costs shall be in accordance with the terms of said rental agreements. The rental of any such equipment, machinery,

SUPPLEMENTARY CONDITIONS 00 73 00 - 20 or parts shall cease when the use thereof is no longer necessary for the Work.

11.01.A.5.c(2) Costs for equipment and machinery owned by Contractor will be paid at a rate shown for such equipment in the Rental Rate Blue Book published by Equipment Watch. An hourly rate will be computed by dividing the monthly rates by 176. These computed rates will include all operating costs. Costs will include the time the equipment or machinery is in use on the changed Work and the costs of transportation, loading, unloading, assembly, dismantling, and removal when directly attributable to the changed Work. The cost of such equipment or machinery, or parts thereof, shall cease to accrue when the use thereof is no longer necessary for the changed Work. Equipment or machinery with a value of less than \$1,000 will be considered small tools.

SC-11.01. Add the following language to the end of Paragraph 11.01.A.5.h:

Express and courier services must be approved prior to use.

SC-11.01. Add the following language to the end of Paragraph 11.01.A.5.i:

Any and all notarial fees for the execution of the contract shall be paid by the Contractor. Contractor shall also be responsible for payment of all recordation costs and photocopying.

SC-11.01. Delete paragraph 11.01.B.1 and insert the following in its place:

11.01.B.1. Payroll costs and other compensation of Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, project managers, assistant project managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and contracting agents, expediters, 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 11.01.A.1 or specifically covered by Paragraph 11.01.A.4, all of which are to be considered administrative costs covered by the Contractor's fee.

SC-11.01. Delete Paragraph 11.01.C in its entirety.

SC-11.01. Add the following language after Paragraph 11.01.5:

- 6. At the Pre-construction conference, the Contractor shall certify to the Engineer the following:
  - a. A listing of on-site clerical staff, supervisory personnel and their pro-rated time assigned to the Contract,
  - b. Actual cost of fringe benefits specified in Paragraph 11.01.1 of the General Requirements, and,
  - c. Existence of employee benefit plan for Holiday, Sick and Vacation benefits and a Retirement Plan.

Such certification must be made by an officer or director of the Contractor with authority to bind the Contractor. Timely certification is a condition precedent to any right of the Contractor to recover compensations for such costs, and failure to timely submit the certification will constitute a full, complete, absolute and irrevocable waiver by the Contractor of any right to recover such costs. Any subsequent changes shall be certified to the Engineer as part of the cost proposal or seven calendar days in advance of performing such extra work.

- SC-11.02. Delete Paragraph 11.02 in its entirety.
- SC-12.01. Add the following language to the end of Paragraph 12.01.C.2.c:

except, the maximum total allowable cost to Owner shall be the Cost of the Work plus a maximum collective aggregate fee for Contractor and tiered Subcontractors of 20 percent;

SC-12.01. Add the following new paragraph immediately after Paragraph 12.01.C:

12.01.D. *Right to Audit:* The Contractor will submit to any SWBNO audit, inspection, and review and, at the SWBNO's request, will make available all documents relating or pertaining to this Contract maintained by or under the control of the Contractor, its employees, agents, assigns, successors and subcontractors, during normal business hours at the Contractor's office or place of business in Louisiana. If no such location is available, the Contractor will make the documents available at a time and location that is convenient for the SWBNO.

Administrative and financial records shall be made and kept by the contractor in accordance with generally accepted accounting principles and practices. Records shall include, but are not limited to, accounting records, daily reports, change order requests, correspondences and subcontract files (hard copies as well as computer readable data, if it can be made available). Records must be retained and made available upon request for a minimum of five (5) years following completion or formal acceptance of the contracted project.

The Contractor will abide by all provisions of City Code § 2-1120, including but not limited to City Code § 2-1120(12), which requires the Contractor to provide

SUPPLEMENTARY CONDITIONS 00 73 00 - 22

the Office of Inspector General with documents and information as requested. Failure to comply with such requests shall constitute a material breach of the Contract. The Contractor agrees that it is subject to the jurisdiction of the Orleans Parish Civil District Court for purposes of challenging a subpoena.

SC-12.02. Add the following sentences immediately after Paragraph 12.02.B: "

12.02.C In order to be entitled to an increase in time for performance of the Work, Contractor must establish that its critical path of construction performance has been adversely impacted. Upon such a showing, Contractor shall be entitled only to such an extension equivalent to such actual adverse impact in the critical path.

SC-12.03 – Add the following language at the end of Paragraph 12.03.C:

If Abnormal Weather Conditions are the basis for a claim for additional time, such claim shall be documented by data substantiating that (1) weather conditions were abnormal for the period of time, (2) the abnormal weather could not have been reasonably anticipated, and (3) that weather conditions had an adverse effect on the scheduled construction path and could not be reasonably mitigated.

SC-13.03. Add the following language at the end of Paragraph 13.03:

Inspections, tests, or observations by Engineer, Owner, or its agents may be performed at its discretion, to provide information to the Owner on the progress of the Work. However, such information is not intended to fulfill the Contractor's obligations in accordance with the Contract Documents.

SC-13.03. Delete Paragraph 13.03.B in its entirety and insert the following in its place:

13.03.B. Contractor shall employ an independent testing laboratory or testing agency and shall be responsible for arranging and shall pay for specified tests, inspections, and approvals required for Owner's and Engineer's acceptance of the Work at the Site except:

13.03.B.1. costs incurred in connection with tests or inspections pursuant to Paragraph 13.04 shall be paid for as provided in said paragraph; and

13.03.B.2. as otherwise specifically provided in the Contract Documents.

SC-13.03. Add the following language at the end of Paragraph 13.03.D:

v1

Tests required by Contract Documents to be performed by Contractor that require test certificates be submitted to Owner or Engineer for acceptance shall be made by an independent testing laboratory or agency licensed or certified in accordance with Laws and Regulations and applicable state and local statutes. In the event state license or certification is not required, testing laboratories or agencies shall meet the following applicable requirements:

00 73 00 - 23

- 13.03.D.1. Basic requirements of ASTM E329, "Standard Specification for Agencies Engaged in Construction Inspection, Special Inspection, or Testing Materials used in Construction" as applicable.
- 13.03.D.2. Calibrate testing equipment at reasonable intervals by devices of accuracy, traceable to the National Institute of Standards and Technology or accepted values of natural physical constants.
- SC-13.07. Amend the first sentence of 13.07. A to read as follows:
  - 13.07.A If within no less than one year after the date of Final Acceptance by the Sewerage and Water Board of New Orleans (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents), any Work is found to be defective, or if the repair of any damages to the land or areas made available for Contractor's use by Owner or permitted by Laws and Regulations as contemplated in Paragraph 6.11.A is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions...
- SC-13.07. Delete Paragraph 13.07.C. in its entirety.
- SC-14.02. Delete Paragraph 14.02.C.1 in its entirety and insert the following in its place:
  - 14.02.C.1. Forty-Five days after presentation of the Application for Payment to Owner with Owner's Representative's recommendation, the amount recommended will (subject to the provisions of Paragraph 14.02.D) become due and when due will be paid by Owner to Contractor.
- SC-14.02. Add the following new paragraph(s) immediately after Paragraph 14.02.D.3:
  - 14.02.D.4. Items entitling Owner to retain set-offs from the amount recommended, including but not limited to:
    - 14.02.D.4.a. Owner compensation to Engineer at an estimated average rate of \$21s0 per each extra personnel hour for labor plus expenses, if applicable, because of the following Contractor-caused events:
      - 14.02.D.4.a.(2). return visits to manufacturing facilities to witness factory testing or retesting;
      - 14.02.D.4.a.(3). Submittal review in excess of two reviews by Engineer for substantially the same submittal, in accordance with Paragraphs 6.17.E.2 and 6.17.E.3 of these Supplementary Conditions;
      - 14.02.D.4.a.(4). evaluation of proposed substitutes and making changes to Contract Documents occasioned thereby, in accordance with Paragraph 6.05.E of these Supplementary Conditions;

SUPPLEMENTARY CONDITIONS 00 73 00 - 24 14.02.D.4.a.(5). Overtime worked by Contractor necessitating Engineer, and their officers, directors, members, partners, employees, agents, and other consultants and subcontractors of each, Resident Project Representative or Resident Project Representative's Site staff, if any, to work extraordinary overtime in accordance with Paragraph 6.02.C. of these Supplementary Conditions.

14.02.D.4.b. Liability for liquidated damages incurred by Contractor as set forth in the Agreement.

SC-14.06. Add the following new paragraph immediately after Paragraph 14.06.A:

14.06.B. In accordance with Louisiana Statute 38:2248, punch lists will include cost estimate for each item of work identified by Engineer based on mobilization, labor, materials, and equipment costs of correcting each punch list item. Completed punch list items will be paid upon expiration of 45-day lien period.

SC-14.07. Delete Paragraph 14.07.C.1 in its entirety and insert the following in its place:

14.07.C.1. Forty-five days after presentation to Owner of the final Application for Payment and accompanying documentation, the amount recommended by Engineer less any sum Owner is entitled to set off against Engineer's recommendation, including but not limited to liquidated damages, will become due and, will be paid by Owner to Contractor.

The percentage of the value of the work done, as stated in Paragraph 14.02.A.3 of the General Conditions, will be withheld by the Board for a period of not less than forty-five (45) consecutive calendar days after the contract has been accepted by the Board, and such acceptance has been recorded in the Office of the Recorder of Mortgages for the Parish of Orleans. At the end of the forty-five (45) day period, the percentage withheld by the Board, will be paid to the Contractor, less any sums that may be legally deducted under any provisions of this contract, upon the Contract or furnishing the Board with a certificate from the Recorder of Mortgages for the Parish of Orleans, certifying that the contract is clear of all liens and privileges.

SC-14.10. Add the following new paragraph immediately Paragraph 14.09.2:

SC-14.10 *Maintenance Period*. The maintenance period under this contract, except as otherwise specifically provided for herein, shall be for a period of forty-five (45) consecutive calendar days beginning from the day after the contract has been accepted by the Board, and such acceptance has been recorded in the Office of the Recorder of Mortgages for the Parish of Orleans. During the maintenance period the Contractor will repair, at his own expense, all defects in the work that may arise, to the satisfaction of the Engineer. The Contractor shall restore all surfaces for which he is responsible under the specifications, whether unimproved, partially improved, or paved surfaces (See Section B of the General Specifications), and maintain them in good condition to the satisfaction of the Engineer. If the

v1 SUPPLEMENTARY CONDITIONS v1 00 73 00 - 25 Contractor should fail or refuse to repair, at his own expense, any defects in structures or surfaces developing before the expiration of the aforesaid forty-five (45) days or to adjust satisfactorily any claims for damages to public or private property, the Board shall have the right to continue to hold the retainer and to make the necessary repairs and to satisfy the claims for damages, by such means as the Board shall elect, and to reimburse itself for the cost of these repairs and satisfied claims, out of the said retainer. Any surplus of this retainer will then be paid the Contractor, under the conditions above stated, any deficiency shall be made good by the surety.

SC-15.03.A. Delete the first sentence of Paragraph 15.03.A in its entirety and insert the following in its place:

Upon 7 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 or any portion of the Contract.

- SC-15.04. Delete Paragraph 15.04 in its entirety.
- SC-16.01. Delete Paragraph 16.01 in its entirety and insert the following in its place:
- SC-16.01 Meet to Confer and Negotiate
  - 16.01.A. Engineer's action under Paragraph 10.05.C shall become final and binding 30 days after receipt of written notice of Engineer's action or decision unless, within that time period, Owner or Contractor gives to the other party written notice of intent to submit the Claim to a process of bilateral negotiations as set forth below.
  - 16.01.B. Within 30 days of the delivery of such notice, Owner and Contractor shall meet and confer regarding the Claim. A good-faith effort to negotiate resolution shall be made by both parties.
  - 16.01.C. If the negotiations contemplated by Paragraph SC-16.01.B are unsuccessful, management representatives of Owner and Contractor at least one tier above the individuals who met under SC-16.01.B shall meet, confer, and negotiate within 30 days of the closure of the unsuccessful negotiations.
  - 16.01.D. If the Claim is not resolved by negotiation, Engineer's action under Paragraph 10.05.C shall become final and binding 30 days after termination of the negotiations unless, within that time period, Owner or Contractor:
    - 16.01.D.1. gives to the other party written notice of intent to submit the Claim to a court of competent jurisdiction; or
    - 16.01.D.2. agrees with the other party to submit the Claim to another dispute resolution process.

SUPPLEMENTARY CONDITIONS 00 73 00 - 26 16.01.E. Notwithstanding any applicable statute of limitations, a party giving notice under Paragraph SC-16.01.D.1 shall commence an action on the Claim within 1 year of giving such notice. Failure to do so shall result in the Claim being time-barred and Engineer's action or denial shall become final and binding.

SC-17.05. Delete Paragraph 17.05 and insert the following in its place:

17.05. Controlling Law and Jurisdiction

- A. This Contract is to be governed by the laws of the State of Louisiana
- B. Contractor hereby consents and yields to the jurisdiction of the Civil District Court for the Parish of Orleans and does hereby formally waive any pleas of jurisdiction on account of residence elsewhere.

#### **END OF SECTION**

# Attachment 1 - Sewerage and Water Board of New Orleans Drug - Free Work Place Policy Contractor Requirements Page 1 of 3

#### ATTACHMENT TO GENERAL SPECIFICATIONS

#### STATEMENT OF POLICY

It is the policy of the Sewerage and Water Board of New Orleans that all work places associated with its operation, maintenance, improvements, and expansion be kept drug free. In order to insure this, the Sewerage and Water Board has approved the following drug testing policy to be implemented on this contract.

#### NOTICE

The contractor shall notify all personnel to be employed on this contract that they must submit to drug testing upon the occurrence of any accident, injury, or unsafe and hazardous incident which involves them. Agreement to submit to such drug testing shall be required for the employment of all personnel under this contract.

#### **PENALTIES**

Any employee who refuses to agree to testing under this policy or who refuses to be drug tested after the occurrence of any accident, injury or unsafe and hazardous incident which involves them, or who fails to report any such accident, injury or incident within twenty-four (24) hours of its occurrence, shall be deemed incompetent under Paragraph 47 of the General Specifications. Any employee found to have a positive test result after his conformational testing shall be deemed incompetent under Paragraph 47 of the General Specifications. Any employee deemed incompetent under these provisions shall be removed by the contractor from work under this contract and any other current Board contract.

#### **TESTING PROCEDURE**

The contractor shall while performing this contract, require any of its employees who are involved in an accident, injury or unsafe and hazardous incident while in the course and scope of their employment, whether vehicular or non-vehicular in nature, to be tested for blood alcohol or drug levels through a laboratory approved by the National Institute for Drug Abuse. Said employee shall provide a testing sample as soon as possible after such accident, injury or incident, but no longer than twenty-four (24) hours from the time of the occurrence. The contractor shall provide copies of the results of the initial testing on the samples involved to the Risk Manager of the Sewerage and Water Board of New Orleans as soon as such results are known. If the initial testing reveals a positive result, the contractor shall forward the remainder of the original testing sample to a second, conformational testing. The Sewerage and Water Board of New Orleans shall consider any result to be positive if it indicates any level which exceeds the levels set forth as follows:

# Drug-Free Workplace Policy Page 2 of 3

# **CUT-OFF LEVELS INDICATING POSITIVE TEST RESULTS**

The following initial cut-off levels shall be used when screening specimens to determine whether negative or positive:

Marijuana metabolites	Initial Test Level (ng/ml) 50
Cocaine metabolites	300
Opiate metabolites	300
Phencyclidine (PCP, etc.)	25
Amphetamines	1000
Alcohol .05% by weight based on grams of alcohol pe LSD	r 100cc of blood
Barbiturates	300
Benzodiazepines	300
Quantitative GC/MS confirmation procedures at the fo be used for the following drugs:	llowing cut-off values shall
Confirmatory Test Level (ng/i	ml)
Marijuana metabolites*	
Cocaine metabolites**	150
Opiates (Morphine, Codeine)	150
Phencyclidine (PCP, etc.)	25
Amphetamines (amphetamine, Methamphetamine)	300
LSD	150
Barbiturates	300
Benzodiazepines  * Delta-9-Tetrahydrocannabinol - 9-Carboxylic Acid ** Benzoylecgonine	300

#### Drug-Free Workplace Policy Sheet 3 of 3

The contractor shall choose the laboratory to be used for drug testing, and shall identify such laboratory to the Risk Manager of the Sewerage and Water Board prior to receiving approval to start work. All laboratories shall be approved by the National Institute for Drug Abuse.

The contractor shall notify the Board's Risk Manager immediately of the results of any conformational testing.

The Contractor's Senior Project Superintendent working in consultation and conjunction with the Board's Risk Manager and the Board's Engineer, shall determine whether an accident, injury or unsafe or hazardous incident occurred. The Safety Department of the Sewerage and Water Board reserves the right to investigate any such matter and make a complete report to the Executive Director of the Sewerage and Water Board whose decision shall be final.

The Sewerage and Water Board shall not be liable for any cause of action of any employee of the contractor brought against the contractor as a result of this policy. The Sewerage and Water Board shall not be liable for the contractor's failure to stipulate adherence to the terms and conditions of this drug testing policy as a condition of employment of any employee on this contract. The Board shall not release the contractor from his responsibilities under the policy unless failure to adhere to the conditions of this policy shall be a direct result of any action taken by the Board.

These requirements shall be acknowledged by signature of the contractor's authorized representative in the space provided in the "Form of Proposal".

#### **Attachment 2 - Safety Orientation Notice**

#### Welcome

We welcome you to the S&WB and request your assistance in maintaining our Safety Standards. For the safety of yourself and everyone working at the S&WB, you are asked to observe the following safety precautions. When this notice has been read thoroughly, a senior representative of your company is required to distribute this information to all employees who will be affected. You may call the Board's Risk Management Department at (504) 585-2382 if you have any questions.

#### **Basic**

- 1. Smoking will be allowed in designated areas only.
- 2. Horseplay, practical joking and fighting are positively prohibited.
- 3. The use or possession of illegal drugs or intoxicating beverages is strictly prohibited on all S&WB property.
- 4. Housekeeping is a must. We will keep our area safe and free from litter and expect you do to the same.
- 5. Handrails must always be used when going up and down ladders or stairs.
- 6. When working in confined spaces, the contractor must be in full compliance with Occupational Safety and Health Administration (OSHA) Standard # 29CFR 1910.146 at all times. Atmospheric conditions such as adequate ventilation, the presence of oxygen and the absence of explosive gases must be assured before working in voids, tanks, or other enclosed spaces.
- 7. Radios must be turned off.
- 8. S&WB reserves the right to issue a stand down to Contractor's if necessary to address repeated safety issues or concerns or poor housekeeping. Stand downs may range from a few hours up to a full workday.

#### **Emergency**

- 9. The S&WB Emergency Response Plan is a document, which provides specific notification instructions to be followed in case of hazardous material spills. The Board's Environmental Affairs Office phone number is 942-3855 during normal business hours 7:30 a.m. to 4:00 p.m.
- 10. The Board's 24-hour emergency lines are (504) 529-2837 and 865-0575 (Central Control Dispatcher, Carrollton Plant.)
- 11. Since Board contracts are performed under various circumstances at various locations, prior to beginning any work, the contractor should consult with the Board employee who is responsible for monitoring the contract in order to establish the most effective procedures for handling emergencies.

#### **Transportation**

- 12. Warning signals and lights shall be used as follows:
- 13. Rotating beacons shall be used if your vehicle is so equipped.
- 14. Tail lights / emergency flashers shall be used.
- 15. Orange reflector type safety cones shall be placed to give other motorists warning.
- 16. If vehicle is moving, backing, or parking, proper traffic control shall be exercised.

#### **Protective Clothing and Equipment**

- 17. All personnel who are exposed to eye hazards will wear safety glasses. Hard hats will be worn at all times while an employee is in the immediate vicinity of overhead hazards or while operating heavy equipment without a Rollover Protection Device.
- 18. Protective clothing and equipment such as rubber aprons and gloves, eye and face protection, approved respirators or dust masks will be worn when handling all harmful chemicals.

#### Reporting

- 19. Defective equipment, machinery, hazardous conditions, or unsafe work practices or conditions shall be reported immediately to your Supervisor / Foreman who will then contact proper S&WB personnel for corrections.
- 20. All injuries will be reported to the Risk Manager, (504) 585-2422, or to the Safety Unit, (504) 585-2522, regardless of how minor an injury may seem.
- 21. S&WB employees may hold safety meetings to discuss and promote safe working conditions and accident prevention. You may be asked to attend.
- 22. In case of incident, Contractors shall follow S&WB Incident Reporting Protocols provided in Attachment 2A.

#### **Work Smart**

- 23. Stay alert at all times, know what is going on around you. Know the safe operating procedures concerned with your assigned duties. When your duties may influence the safety of Board employees, notify the employees and their supervisors first.
- 24. Vendor / Contractors shall at all times demonstrate strict compliance with all Federal, State and Local regulations regarding safety, including but not limited to, all relevant Department of Environmental Quality (DEQ), Department of Transportation (DOT), Environmental Protection Agency (EPA), and Occupational Safety and Health Act (OSHA) regulations.
- 25. The Vendor / Contractor will at the request of the Risk Manager and / or Safety Manager

remove any of his employees found to be creating or contributing to unsafe conditions.

26. The following items are not allowed on any S&WB Facility or jobsite:

- Firearms and Ammunition
- Alcohol and illegal drugs

#### **Attachment 2A - SWBNO Incident Response and Reporting Protocols**

This document constitutes SWBNO Incident Reporting Protocols as referenced in *Attachment 2 - Safety Orientation Notice* of the Supplementary Conditions. In case of an incident, these protocols shall be followed in addition to those that are part of the Contractor's Safety Program and of which SWBNO has been informed.

SWBNO incident response and reporting protocols may be categorized into three phases: Phase 1 - Stop Work and Make Safe, Phase 2 - Stand Down, and Phase 3 - Investigation and Reporting. A flowchart of these protocols is provided in Exhibit 1. Contacts shown thereon shall be identified in coordination with SWBNO and the Owner's Construction Manager (CM) for inclusion in the Contractor's Safety Plan. A blank contact list, to be prepared and submitted in Contractor's Safety Plan, is provided in Exhibit 2. An Initial Incident Report template is provided as Exhibit 3.

#### Phase 1 - Stop Work and Make Safe (Immediate Response)

- Ensure personnel are removed from danger, safe, and accounted for.
- STOP WORK and take actions to MAKE SAFE.
- In case of injury, immediately call Central Control and they will dispatch 911. Proceed with treatment of injuries that do not require emergency services.
- Provide immediate notifications to the Owner's Construction Manager (CM) and affected SWBNO
  personnel. See contact list.
- Once the situation is made safe and there is not an imminent threat to personnel, property, or environment, **STAND DOWN.**
- Do not continue work until an initial incident investigation has been conducted by the Owner's CM and SWBNO personnel.
- Conduct Drug Testing as required by SWBNO Policy.
- Conduct additional activities as may be documented in Contractor's Safety Program.

#### Phase 2 Stand Down (As Soon as Practical)

- Contractor and Owner's CM to immediately begin incident investigation and reporting. Log and record incident in Contract Document Management System (DMS).
- Owner's CM to provide verbal notification to the SWBNO PM who makes immediate notifications throughout SWBNO.
- Any damaged plant equipment shall remain at the site until SWBNO has had the opportunity to view and approves transport offsite.
- Owner's CM to prepare an email summarizing the incident with distribution to the SWBNO PM and the SWBNO Leadership Team no later than the end of the day on which the incident occurred. Include details and photos as appropriate.
- ONLY proceed with Work once the Stand Down has been completed and a collective all clear is provided by Contractor / Subcontractors, the Owner's CM, and SWBNO personnel.

#### Phase 3 – Investigation and Reporting

- Within 24 Hours Contractor shall prepare *Initial Incident Report* including preliminary damage assessment and submit by email with upload to DMS. Contractor shall utilize form provided as Exhibit 3 or alternate form approved by the SWBNO. Contractor and Construction Inspector shall log and record safety incidents daily. Owner's CM to review and distribute to the SWBNO PM and the SWBNO Leadership Team.
- Within 7 Calendar Days Contractor shall prepare Final Incident, Damage Assessment, and Remedial Actions Report and submit via email with upload to DMS. Documentation is to be discussed in a roundtable meeting to include Contractor (Subs as appropriate), Owner's CM, and individuals designated by SWBNO. Lessons Learned disseminated shall be disseminated by the Owner's CM to all within one week of incident. Serious incidents may require longer investigation.

Exhibit 1 - Incident Response and Reporting Flowchart

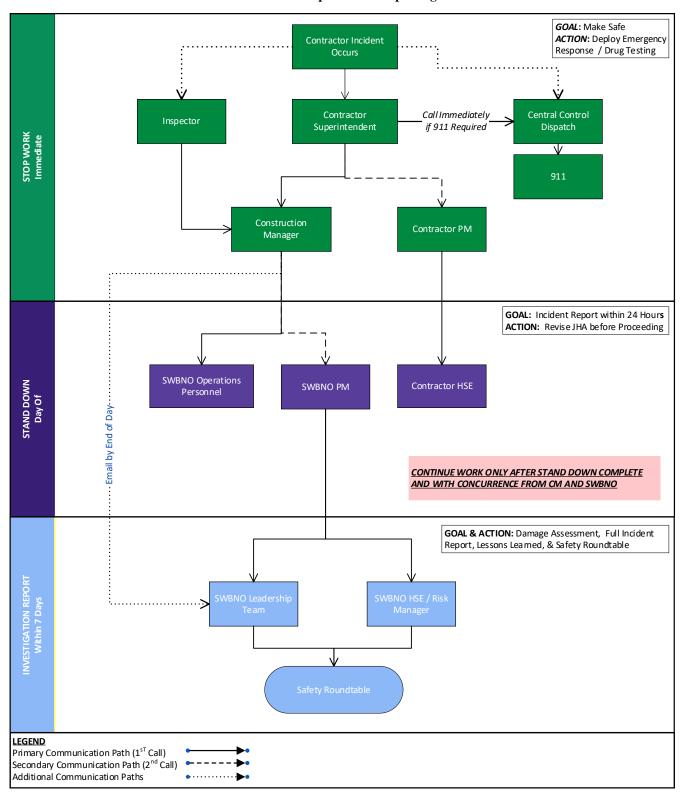
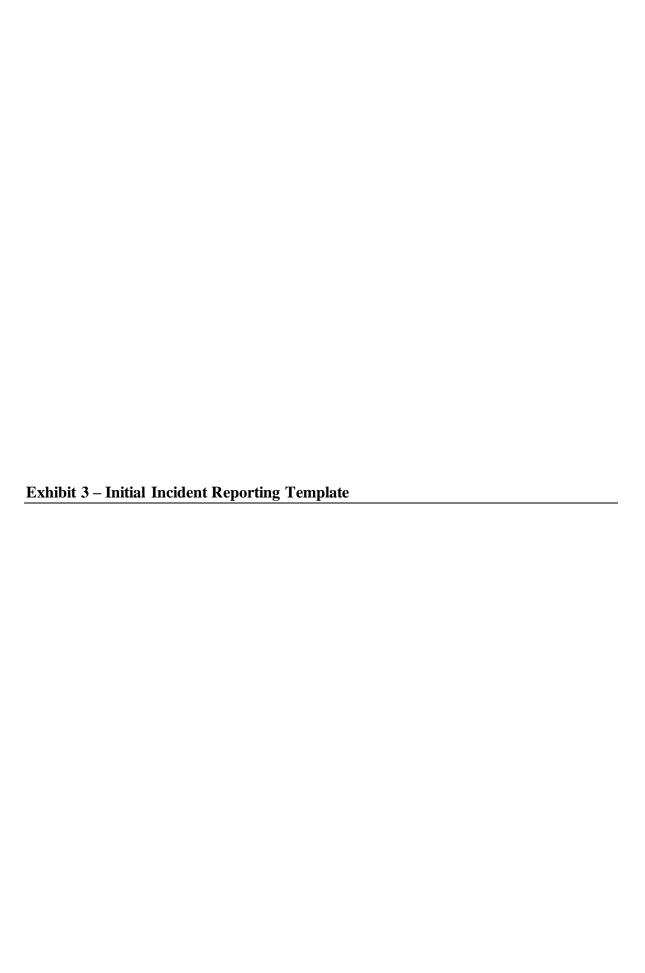


Exhibit 2 – Contact List for Incident Reporting (to be populated and made part of Contractor's Safety Program)

Entity	Primary Contact	Secondary Contact	Individual with Primary Responsibility for Immediate Contact
Contractor Superintendent			Operator, workers
Central Control (if required)			Contractor Superintendent
Contractor Project Manager			Contractor Superintendent
Owner's Construction Manager			Contractor Superintendent
Construction Inspector			Operator, worker and/or Construction Superintendents
SWBNO Operations			Owner's Construction Manager and/or Superintendent
SWBNO Project Manager			Owner's Construction Manager
SWBNO Leadership Team			Owner's Construction Manager
SWBNO Risk Management			SWBNO PM
Other			



Initial Incident Notificat	ion Template	Page 1 of 4
Incident Title		
Incident Date	Incident Time	□ am □ pm
Contract Number	Contract Name	
Prime Contractor	Superintenden	Ł
Subcontractor	Subcontractor (	Contact
Incident Details (A comprehensive incident re	eport with additional details should be submitted w	vithin 7 days)
Incident Impacts (Check all that apply)		
☐ Injury ☐ Near Miss ☐ Property Damaş	ge 🗆 Equipment Damage 🗆 Environmental	
Where did the incident occur?		
Was anyone injured? YES □ NO □		1 1 1 24 E 1 1 D
(If YES, provide name of employee, description	n of injury, medical attention provided and by who	om, and whether 911 was dispatched)
Was any Board equipment or infrastructure da	maged? YES  NO (If YES, provide details below	א including what was damaged, the extent of damage
assessment of impact to ongoing operations,		
Describe any other impacts or damages that	occurred as a result of the incident. (e.g., environ	mental, 3 <sup>rd</sup> party)
List all personnel and associated role involve	d with incident. (Attach witness statements from	each individual involved)
Incident Description		
What work was being performed at the time	of the incident?	
Describe what happened in sequence? (Atto	nch additional pages as necessary.)	
Describe what happened in sequence? (Atto	ach additional pages as necessary.)	
Describe what happened in sequence? (Atta	ach additional pages as necessary.)	
Describe what happened in sequence? (Atta		

Initial incluent Noti	ilication remplate		Page 2 01 4
Photos / Diagrams of Incident (Atta	ch additional pages as necessary.)		
Witness Statements			
withess statements			
a la. la			
Stop Work and Standy Down Actions			
What immediate actions were taker	n? (e.g, emergency response or notific	cations, securing scene, makingthe are	a safe etc.)
Who was contacted to inform that t	the incident occurred?		
Describe house and a deal falls	wing the incident 2 Was a #6tend Barry		
Describe now work proceeded follo	owing the incident? Was a "Stand Dow	n conducted: were any modification	ins to the JHA or permits required?
Describe further investigations that	are in progress and timeline for provide	ding (detailed incident reports dama	ge assessments etc.)?
		and (account moracine reperce) according	50 400000
Contact Details			
Form Prepared By		Signature	
Email		Phone	
	•		1

Initial Incident Notification Template	Page 3 of 4
Additional Information	

#### **ATTACHMENT 3**

# Sewerage and Water Board of New Orleans Electrical Safety Clearance Procedure

#### Definitions:

**Operator:** The Board employee who is on-site and in responsible charge of the operation of the plant, station, or other facility.

**Out of Service:** The electrical/mechanical disconnection of equipment which is to remain inoperable.

**Power Dispatcher:** The shift employee on duty at Central Control at the time safety clearance occurs.

**Signee:** The person who actually tags-out equipment for safety clearance.

**Supervisor/Foreman:** The Board employee who is the supervisor/foreman in responsible charge of the repair/maintenance of one or more work locations which requires safety clearance. This person may not necessarily be "on-site" at any particular location.

**Tag-out:** The physical tagging of equipment by an operator for the purpose of disabling equipment.

**Lock-out:** The physical locking of equipment by an operator for the purpose of disabling equipment.

#### **General Provisions**

- 1) All equipment repair/maintenance work which is scheduled and requires safety clearance should be presented to Central Control at the beginning of each work day by the supervisor/foreman/electrical engineer in charge of the repair/maintenance. Twenty four (24) hour advance notice of scheduled work for major outages is desirable; however, it is understood that due to the nature of the services provided by the Board this preferred notice may not be possible for every safety clearance.
- 2) In cases where two (2) or more crafts are working on, or require safety clearance on the same equipment, the supervisor/foreman/electrical engineer for each craft must follow the appropriate safety clearance procedure and the equipment must be tagged out for each craft's signee. No equipment can be tested and/or restored to service until all tags have been removed in accordance with the tag removal procedure.

- 3) When an operator requests service for equipment at an unmanned facility, i.e. an unmanned sewer station or unmanned underpass station, from either Electrical Maintenance or Mechanical Maintenance, the appropriate maintenance department shall request the responsible operator to tag-out the equipment. When the appropriate maintenance department, in the course of servicing this equipment, requires restoration of power, the appropriate maintenance department shall contact the responsible operator directly (if operator is present) or by radio or telephone (if operator is absent) and request that the responsible operator grant his permission. If the power is to be restored for only a short duration, the appropriate maintenance department shall thereafter contact the operator for permission to either remove power or restore power, as often as needed. The operator shall log each request. If the request to restore power is for a short duration only, and the operator does not received contact from the appropriate maintenance personnel to remove power again, the operator shall make every attempt to contact the appropriate maintenance personnel in order to ensure that no accident has occurred.
- 4) If equipment must remain "Out of Service" upon completion of the on-site work, the signee must request their tag be replaced with an "Out of Service" tag in the name of their department: e.g. "Out of Service -Electrical Maintenance", in addition it must be physically locked-out by that department. However the "Out of Service" tag does not relinquish the responsibility of following the safety clearance procedure each day that piece of equipment is worked on.
- 5) Any equipment restored to service after being tagged "Out of Service" must be tested through operational test procedures. The signee must remain, when possible, on-site until testing is complete.
- 6) Any individual involved in these procedures may halt the procedure at any time if it is felt the safety of the personnel and/or equipment warrants said stoppage, or if conditions within the system change that may require postponement of the work.
- 7) In the event the responsible person, signee, leaves the job site without releasing the cleared equipment and is unreachable to release their tagout the following procedure must be enacted before the signees name, tag-out, can be removed from the cleared equipment.
  - 1) Cause must be established by the senior power dispatcher giving reason to remove the tag-out.

- 2) Senior power dispatcher must receive orders from the Chief of Operations or higher, in his absence, to remove said tag-out.
  - 3) Concurrence given by a senior representative of the following:
- a) Department or company to witch the signee works for.
- b) Senior representative of the plant, station, facility in which the tagout occurs.
- c) If job site is in the field then, inspection by Electrical Engineering assuring work has halted for the day.

Once all areas have been satisfied then the senior power dispatcher may have the signees tag-out removed.

NOTE: The above and following procedures may be deviated from above at the discretion of the power dispatcher in cases of emergency.

# Safety Clearance Procedure 25 Hertz System "Non-Sewerage and Water Board Personnel"

 The Company or responsible person representing that company shall first contact Electrical Engineering in regards to their outage request. Electrical Engineering will dispatch personnel to the job site and identify all equipment within close proximity to the work which should be cleared for safety.

**NOTE:** After normal working hours clearance request will be routed through Central Control who will notify the proper personnel in Electrical Engineering. It will be the responsibility of Electrical Engineering to identify said feeders.

- 2) Eletrical Engineering will then contact the power dispatcher informing them of; the company, the person supervising the work, the work to be performed, and supplies the power dispatcher with a clearance list.
- 3) Electrical Engineering will then direct the company's signee to personally appear at any Board facility involved in the clearance prior to the request. Upon arrival at a Board facility the signee will contact the power dispatcher making their clearance request.
- 4) The power dispatcher reviews their one line schematics for any additional equipment they feel is required for safety.
- 5) If the request involved equipment within a station or facility the power dispatcher then notifies the operator of the work to be performed and supplies the operator with a list of the clearance request.
- 6) The operator makes a visual inspection of the work site and adds to the clearance list any additional equipment which they note as being involved in or in close proximity to the work site. A finalized clearance list is then agreed upon by all parties involved.
- 7) The power dispatcher, with assistance from other operating personnel as required and through normal operating procedures, will disconnect from all power sources all equipment on the finalized list.
- 8) After the completion of step seven (7), with the company's signee at a Board facility, the company's signee will be notified of the disconnection of the equipment by the power dispatcher. The company's signee will request the operator at each location to place a tag-out with the company name/signee's name on each piece of equipment on the clearance list.

- 9) After receiving a tag-out report from the operators, the power dispatcher will then verify the tag-out reports against their finalized clearance list. If satisfactory, the power dispatcher will verify with the company's signee what was tagged-out. The company's signee will then be allowed to begin work.
- 10)At this point prior to the beginning of any actual work it is the responsibility of the person or persons performing the work to check the equipment with a voltage tester. If all voltage testing is satisfactory, "no voltage", work may begin.

**NOTE:** Due to the nature of some work it may be necessary that voltage be present.

- 11)Upon completion of the on-site work, the company's signee must report to a Board facility, involved in the clearance. At this point the company's signee will request the operator at each location to remove their tag-out with the company name/signee name off each piece of equipment. The operator and power dispatcher may restore the equipment to its connected position and test same following standard operating procedures.
- 12)If the equipment is to remain out of service, the company's signee must request their tag be removed and an appropriate "Out of Service" tag in the name of their company be placed on the equipment. The equipment will also be physically locked-out by the operator at each location, which would prevent the reconnection and testing process.
- 13) When "Out of Service" equipment is to be returned back into service, only an employee of the company which originally placed the "Out of Service" tag may request it be removed, returning said equipment into service.

# Safety Clearance Procedure 60 Hertz System "Non Sewerage and Water Board Personnel"

- The company or responsible person representing that company shall first contact Electrical Engineering in regards to their outage request. Electrical Engineering will dispatch personnel to the job site and identify all equipment within close proximity to the work which should be cleared for safety.
- 2) Electrical Engineering will then contact the power dispatcher, if the work to be performed is outside of a station. The operator, if the work to be performed is inside the station. They will inform them of; the company, the person supervising the work, the work to be performed, and supplies the power dispatcher or operator with a clearance list.
- 3) The Electrical Engineering will then direct the company's signee to personally appear at any Board facility involved in the clearance prior to the request. Upon arrival at a Board facility the signee will conduct their business with the operator or power dispatcher based on the procedures listed below.
- 4) The power dispatcher reviews their one line schematics or the operator make a visual inspection of the work site and adds to the clearance list any additional equipment which they note as being involved in or in close proximity to the work site. A finalized clearance list is then agreed upon by all parties involved.

#### 5) If handled through the power dispatcher:

The power dispatcher, with assistance from other operating personnel as required and through normal operating procedures, will disconnect from all power sources all equipment on the finalized clearance list.

### If handled through the operator:

The operator will contact the power dispatcher informing them of the work to be performed along with a clearance list request. The power dispatcher reviews their one line schematics for any additional equipment they feel is required for safety. A finalized clearance list is then agreed upon by all parties involved. The operator will then through normal operating procedures disconnect from all power sources all equipment on the finalized clearance list.

6) After the completion of step five (5), with the company's signee at a Board facility, the company's signee will be notified of the disconnection of equipment by the operator or power dispatcher. The company's signee will then request the operator at each location to place a tag-out with the company's name/signee name on each piece of equipment on the clearance list.

### 7) If handled through the operator:

The operator will then contact the power dispatcher providing then with a tag-out report for logging purposes.

8) At this point prior to the beginning of any actual work it is the responsibility of the person or persons performing the work to check the equipment with a voltage tester. If all voltage testing is satisfactory, "no voltage", work may begin.

**NOTE:** Due to the nature of some work it may be necessary that voltage be present.

- 9) Upon completion of the on-site work, the company's signee must report to a Board facility involved in the clearance. At this point the company's signee will request the operator at each location to remove their tagout with the company's name/signee name off each piece of equipment. The operator and/or power dispatcher may restore the equipment to its connected position and test same following standard operating procedures.
- 10)If the equipment is to remain out of service the company's signee must request their tag be removed and an appropriate "Out of Service" tag in the name of their company be placed on the equipment. The equipment will also be physically locked-out by the operator at each location, which would prevent the reconnecting and testing process.
- 11) When "Out of Service" equipment is to be returned back into service, only an employee of the company which originally placed the "Out of Service" tag may request it be removed, returning said equipment into service.

#### ATTACHMENT 4 - SEWERAGE and WATER BOARD of NEW ORLEANS

# Storm Water Pollution Prevention Plan (SWPPP) And Storm Water Best Management Practices (BMP) Requirements

#### **GENERAL**

- 1. The contractor shall prepare and maintain a Storm Water Pollution Prevention Plan (SWPPP), which describes in specific details the Contractor's program to prevent contamination of the storm water collection system for this project. A suggested SWPPP Templates and Sample Inspection Report, as well as other valuable information can be found at EPA's website <a href="http://cfpub.epa.gov/npdes/stormwater/swppp.cfm">http://cfpub.epa.gov/npdes/stormwater/swppp.cfm</a>.
- 2. Contractor shall implement, maintain, inspect and remove all erosion and sediment controls identified in the SWPPP. The program shall address both common construction activities and extraordinary events.
- 3. Contractor shall include Water Pollution Control Drawings (WPCD) in the SWPPP to illustrate the locations, applications and deployment of Best Management Practices (BMPs) identified in the SWPPP. The WPCDs shall be included as an attachment to the SWPCP.
- 4. <u>Best Management Practices (BMPs):</u> A Best Management Practice is a technique, process, activity, or structure used to reduce the pollutant content of a storm water or non-storm water discharge. BMPs may include simple, non-structural methods such as good housekeeping, staff training, and preventive maintenance. Additionally, BMPs may include structural modifications such as the installation of berms, canopies or treatment control
- 5. The Contractor shall comply with laws, rules, and regulations of the State of Louisiana and agencies of the United States Government prohibiting the pollution of lakes, wetlands, streams, or river waters from the dumping of contaminates, refuse, rubbish or debris.
- 6. The contractor shall submit six (6) copies of the SWPPP, a minimum of 10 working days prior to beginning construction, to the Engineer. **Construction shall not begin until the SWPPP is approved.** Contractor shall update the SWPPP as necessary during the work to prevent contamination of the storm water collection system.
- 7. Before start of work, Contractor shall train all employees and subcontractors on the approved SWPPP and related WPCD and provide the Sewerage and Water Board with written documentation of said training.
- 8. Suggested BMPs can be obtained from Ella Barbe, LA DEQ Small Business Assistance Program, 201 Evans Rd. Bldg. 4, Suite 420 Harahan LA. Phone 504-736-7739, e-mail: ella.barbe@la.gov

#### CONSTRUCTION

The contractor shall keep a copy of the SWPPP on the job site. The contractor shall provide continuously at the jobsite all the tools, equipment, and materials necessary to implement the SWPPP at all times from project initiation through completion, including any punchlist or warranty work on the project. At a minimum the following requirements shall be met as applicable, to the maximum extent practicable, at construction sites:

- 1. Storm Drain System Protection: At the first order of work, the Contractor shall protect the existing storm drain system from entrance of construction debris and pollutants. Such protection shall include implementing the BMPs as outlined in the SWPPP. Protection shall prohibit the discharge of untreated runoff from temporary or permanent street maintenance/landscape maintenance material and waste storage areas from entering the storm drain system. Sediment that is generated on the project site shall be retained using structural drainage controls. In addition, the protection system shall have a minimum of three features: 1) a particulate filter of geosynthetic material securely fastened in place such that it cannot be bypassed without significant physical damage; 2) a prefilter for the particulate filter; and 3) on-hand materials to close off the inlet or opening in the case of a significant pollution spill. Contractor shall monitor and maintain all storm drain inlet protection devices during rain events to prevent flooding.
- 2. Material Management & Storage: No construction-related materials, wastes, spills or residues shall be discharged from the project site to streets, drainage facilities or adjacent properties by wind or runoff. All materials and/or equipment storage areas where liquid construction materials are placed shall be protected by a physical barrier capable of containing the entire volume of stored liquid materials. During active construction activities, portions of the barrier may be removed for access. However, the barrier materials must be readily accessible for replacement by onsite construction personnel. The barrier must be in place at all times during the absence of Contractor personnel at the storage site. Building materials shall be placed on pallets and covered in event of rain. Do not store materials in the street or gutter area.
- 3. Equipment & Vehicle Maintenance: Non-storm water runoff from equipment and vehicle washing and any other activity shall be contained at the project site and shall not be allowed to discharge from the project site to streets, drainage facilities or adjacent properties by wind or runoff. The Contractor shall inspect vehicles and equipment on each day of use. Leaks shall be repaired off-site if possible. If necessary to repair on site, the runoff must be contained or the problem vehicle or equipment shall be removed from the project site until repaired. If necessary, drip pans shall be placed under the vehicles or equipment while not in use to catch and/or contain drips and leaks.
- 4. **BMP Inspection:** The contractor shall inspect all pollution control BMPs regularly. The Contractor shall also repair/replace any damaged or clogged element on a daily basis. During periods of precipitation where any runoff occurs, the system shall be checked twice a day, seven days a week, whether or not any work has been performed. The daily checks shall be between 6 a.m. and 9 a.m., and 4 p.m. to 8 p.m. The contractor shall keep a monitoring inspection log of each inspection.
- 5. Spill Prevention & Cleanup Plan: Contractor shall have a spill prevention plan and spill cleanup materials readily available and addressed in the SWPPP. Spills shall be cleaned

Issued: 2/27/2012

up immediately using dry methods if possible. Spill cleanup material shall be properly disposed off site. Contractor shall keep a record of any spills in the inspection log. In addition, at the end of the project, the Contractor must certify that all contaminated materials have been properly disposed in accordance with the SWPPP.

- 6. Asphalt & Concrete Activities: Asphalt and concrete activities shall be scheduled for dry weather. Contractor shall prohibit saw cutting during a storm event of 0.25 inches or greater. Store bags of cement away from gutters and storm drains, sealed and covered, protected from rainfall runoff and wind. Place tarp under cement mixer before operating to catch spills. Never dispose of cement washout or concrete dust onto driveways, streets, gutters or storm drains.
- 7. Sidewalk Washing: The following methods should be utilized to prevent discharge of sidewalk cleaning wastewater into the storm drain system:
  - a. Sweep and pick up all areas to be cleaned before using water.
  - b. Manually scrape gum from sidewalks and other surfaces.
  - c. Must use high pressure and low volume of water with no additives and at an average usage of 0.006 gallons per square foot of surface area to be rinsed.
  - d. Use a wet/dry vacuum to collect wash water for disposal. Large volumes of wash water may require the use of a small sump pump to remove wash water from the job site.
  - e. One or more of the following methods are recommended to prevent pollutants from entering the storm drain system:
    - Sandbags can be used to create a barrier around storm drains. \*
    - Rubber mats or plugs can be used to seal drain openings. \*
    - Temporary berms or containment pads help keep water on site. \*
    - Use berms of sandbags to direct wash water to landscaping. \*
    - Use large squeegees to accumulate sheet flow for collection.
      - \* Remember to remove plugs, berms, and sandbags or you may be liable for possible flooding.
  - f. Wash water that may contain hazardous waste such as oil-saturated absorbents, water with lead or other heavy metals from oxidized paint, and solvent cleaners requires special treatment and must be disposed of through a hazardous waste facility.
- 8. Employee BMP Training: Contractor shall train employees and subcontractors on BMP implementation, general good housekeeping, and proper spill containment and cleanup. Before start of work, Contractor shall provide the Board with written documentation of training and keep all documentation in the SWPCP.
- 9. **Inspection:** Contractor shall inspect and repair or replace, as needed, all job site BMPs a minimum of:
  - Biweekly
  - Before, during and after a major rain event.

Contractor shall document the inspections in the SWPPP.

10. **Dewatering:** Avoid dewatering discharges where possible by using the water for dust control, infiltration, etc..

Issued: 2/27/2012

## ATTACHMENT 5 WAGE RATES

The contractor shall abide by the Davis-Bacon Act Wage Decision. The Wage Decisions applicable to SWB Construction is Heavy Industrial (LA20240008 - 6/20/25- Mod 6).

SAM.gov 6/24/25, 11:33 AM

"General Decision Number: LA20250008 06/20/2025

Superseded General Decision Number: LA20240008

State: Louisiana

Construction Type: Heavy Industrial

Counties: Acadia, Ascension, Bossier, Caddo, Calcasieu, East Baton Rouge, Jefferson, Lafayette, Lafourche, Livingston, Orleans, Ouachita, Plaquemines, Rapides, St Bernard, St Charles, St James, St John the Baptist, St Landry, St Martin, St Tammany, Terrebonne and Webster Counties in Louisiana.

HEAVY CONSTRUCTION PROJECTS (Industrial, Processing Plants, and Refineries)

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:

- Executive Order 14026 generally applies to the contract.
- The contractor must pay all covered workers at least \$17.75 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 2025.

If the contract was awarded on . Executive Order 13658 or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:

- generally applies to the contract.
- The contractor must pay all covered workers at least \$13.30 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2025.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number

Publication Date 01/03/2025

1	01/24/2025
2	02/28/2025
3	04/04/2025
4	04/18/2025
5	05/02/2025
6	06/20/2025

BOIL0037-001 01/01/2021

Rates	Fringes

BOILERMAKER.....\$ 30.49 23.13

------

CARP0729-001 01/01/2023

Rates Fringes

MILLWRIGHT.....\$ 36.00 13.30

CARDA 000 004 07/04/2022

CARP1098-001 07/01/2022

ASCENSION, EAST BATON ROUGE, LIVINGSTON AND ST. JAMES (North of the Mississippi River) PARISHES

Rates Fringes

CARPENTER (including drywall hanging/framing, metal studs,

and formsetting/formbuilding)....\$ 29.04 10.86

......

CARP1098-009 07/01/2022

BOSSIER, CADDO, OUACHITA, RAPIDES AND WEBSTER PARISHES

Rates Fringes

CARPENTER (including drywall hanging/framing, metal studs,

and formsetting/formbuilding)....\$ 29.04 10.86

CARP1098-010 07/01/2022

ACADIA, LAFAYETTE, ST. LANDRY AND ST. MARTIN PARISHES

Rates Fringes

CARPENTER (including drywall hanging/framing, metal studs,

and formsetting/formbuilding)....\$ 29.04 10.86

CARP1098-011 07/01/2022

CALCASIEU PARISH

Rates Fringes

CARPENTER (including drywall hanging/framing, metal studs,

and formsetting/formbuilding)....\$ 29.04 10.86

------

CARP1846-003 07/01/2022

JEFFERSON, LAFOURCHE, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES (South of the Mississippi River), ST. JOHN THE BAPTIST, ST. TAMMANY, and TERREBONNE PARISHES

Fringes Rates CARPENTER (including drywall hanging/framing, metal studs, 10.27 and formsetting/formbuilding)....\$ 29.09 ELEC0130-004 12/02/2024 JEFFERSON, LAFOURCHE, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES, ST. JOHN THE BAPTIST, ST. MARTIN (Southern Portion), AND TERREBONNE PARISHES Rates Fringes ELECTRICIAN (including low voltage wiring).....\$ 35.00 ELEC0194-008 09/02/2024 BOSSIER, CADDO, and WEBSTER PARISHES Fringes Rates ELECTRICIAN (including low voltage wiring)...... \$ 34.00 ELEC0446-005 09/01/2024 **OUACHITA PARISH** Fringes Rates ELECTRICIAN (including low voltage wiring)......\$ 28.95 1.75%+13.52 ELEC0576-007 03/01/2025 RAPIDES PARISH Fringes Rates ELECTRICIAN (including low voltage wiring)......\$ 29.00 4.25%+10.70 ELEC0861-007 09/01/2024 ACADIA, CALCASIEU, LAFAYETTE, AND ST. MARTIN (Northern Portion) **PARISHES** Rates Fringes ELECTRICIAN (including low voltage wiring)......\$ 31.98 4.34%+13.75 \_\_\_\_\_\_ ELEC0995-007 01/01/2025 ASCENSION, EAST BATON ROUGE, LIVINGSTON, AND ST. LANDRY PARISHES Rates Fringes ELECTRICIAN (including low voltage wiring).....\$ 29.47 \* ELEC1077-004 05/26/2025

ST. TAMMANY PARISH

	Rates	Fringes
ELECTRICIAN (including low voltage wiring)\$	30.35	3%+11.55
ENGI0406-016 07/01/2010		
	Rates	Fringes
Power equipment operators: (Acadia, Bossier, Caddo, Calcasieu, Lafayette, Ouachita, Rapides, St. Landry, St. Martin, and Webster Parishes) Crane, 50 to 150 tons\$	s 25.15	7.95
Crane, below 50 tons\$  Crane, over 150 tons\$  Power equipment operators:  (Ascension, Livingston, and St. James Parishes)	24.90	7.95 7.95
Crane, 50 to 150 tons\$ Crane, below 50 tons\$ Crane, over 150 tons\$ Power equiment operators: (Lafourche, St. Bernard, St. Charles, St. John the Baptist, St. Tammany, and	24.65	7.95 7.95 7.95
Terrebonne Parishes) Crane, 50 to 150 tons\$ Crane, below 50 tons\$ Crane, over 150 tons\$ Power Equipment Operators (East and West Baton Rouge)	24.65	7.95 7.95 7.95
Crane, 50 to 150 tons\$ Crane, below 50 tons\$ Crane, over 150 tons\$ Power equipment operators: (Orleans, Jefferson, Plaquemines)	3 24.65 3 26.15	7.95 7.95 7.95
Crane, 50 to 150 tons Crane, below 50 tons Crane, over 150 tons	5 24.65 5 26.15	7.95 7.95 7.95
IRON0623-004 01/01/2025		
ASCENSION, EAST BATON ROUGE, LAFAY LIVINGSTON, ST. JAMES (Northwester ST. MARTIN PARISH	/ETTE (Eastern rn Portion), SI	Portion), LANDRY, and
	Rates	Fringes
IRONWORKER, STRUCTURAL AND REINFORCING	34.75	13.86
BOSSIER, CADDO, AND WEBSTER PARISH	HES	
	Rates	Fringes
Ironworker, reinforcing and structural		13.86

ACADIA, CALCASIEU, LAFAYETTE (Western Portion), OUACHITA, AND RAPIDES PARISHES

KAPIDES PARISHES		
	Rates	Fringes
Ironworker, reinforcing and structural		
IRON0623-019 01/01/2025		
JEFFERSON, LAFOURCHE, ORLEANS, CHARLES, ST. JAMES (Southeaster BAPTIST, ST. TAMMANY, and TERRE	n Portion), S	T. JOHN THE
	Rates	Fringes
Ironworker, reinforcing and structural* * LABO0099-005 07/01/2006		
CALCASIEU PARISH		
	Rates	Fringes
Laborer, common	\$ 12.79 **	1.73
* LAB00099-007 07/01/2006		
JEFFERSON, LAFOURCHE, ORLEANS, CHARLES, ST. JAMES, ST. JOHN TH TERREBONNE PARISHES		
	Rates	Fringes
Laborer, common Jefferson, Orleans, St. Bernard, and Terrebonne Parishes	\$ 12.79 **	1.73
St. Charles, and St. John the Baptist Parishes St. James and St. Tammany Parishes		1.73 1.73
* LAB00099-008 01/01/2005  ACADIA, FRANKLIN, LAFAYETTE, CAND ST. MARTIN PARISHES	DUACHITA, RAPI	DES, ST. LANDRY,
	Rates	Fringes
Laborer, common		
* LAB00099-011 09/01/2005		
ASCENSION, EAST BATON ROUGE, AN	D LIVINGSTON	PARISHES

Rates

Laborer, common...........\$ 15.00 \*\* 2.77

Fringes

<sup>\*</sup> LAB00692-001 05/01/2005

SAM.gov 6/24/25, 11:33 AM

BOSSIER, CADDO, AND WEBSTER PARISHES

Fringes Rates Laborer, common.....\$ 12.00 \*\* 2.10 PAIN1244-003 11/01/2019

NEW ORLEANS AREA - ASCENSION, EAST BATON ROUGE, JEFFERSON, LAFAYETTE, LAFOURCHE, LIVINGSTON, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES, ST. JOHN THE BAPTIST, ST. LANDRY, ST. MARTIN, ST. TAMMANY, AND TERREBONNE PARISHES

	Rates	Fringes
PAINTER (brush, roller,		
spray, and sandblaster)		9.73
PAIN1244-004 11/01/2019		

LAKE CHARLES AREA - ACADIA AND CALCASIEU PARISHES

Fringes Rates PAINTER (brush, roller, spray, and sandblaster).....\$ 21.91 PAIN1244-005 11/01/2019

SHREVEPORT AREA - BOSSIER, CADDO, OUACHITA, RAPIDES, AND WEBSTER PARISHES

	Rates	Fringes
PAINTER (brush, roller, spray, and sandblaster)	\$ 21.91	9.73
PLUM0060-001 06/05/2023		

JEFFERSON, LAFOURCHE, ORLEANS, PLAQUEMINES, ST. BERNARD, ST. CHARLES, ST. JAMES (Southeastern Portion), ST. JOHN THE BAPTIST, ST. TAMMANY, AND TERREBONNE PARISHES

	Rates	Fringes	
PIPEFITTER (excluding HVAC			
pipe)	\$ 31.70	13.85	
PLUMBER (including HVAC pipe			
and setting system)	\$ 31.70	13.85	
DI LIMO1/11_001_09/01/2022			

PLUM0141-001 08/01/2023

BOSSIER, CADDO, and WEBSTER PARISHES

Rates Fringes PLUMBER/PIPEFITTER (including HVAC pipe and setting system)....\$ 28.48 14.47 PLUM0141-007 08/01/2024

**OUACHITA PARISH** 

Rates Fringes

SAM.gov 6/24/25, 11:33 AM

PLUMBER/PIPEFITTER (including HVAC pipe and setting system)....\$ 28.75

11.86

PLUM0198-001 12/08/2022

ASCENSION, EAST BATON ROUGE, LIVINGSTON, ST. JAMES (Northwestern Portion), AND ST. MARTIN (Eastern Portion) **PARISHES** 

Rates Fringes

PLUMBER/PIPEFITTER (including HVAC pipe and setting system)....\$ 32.42

16.50

PLUM0198-008 06/01/2014

ACADIA, CALCASIEU, LAFAYETTE, ST. LANDRY, and ST. MARTIN (Western Portion) PARISHES

Rates

Fringes

PLUMBER/PIPEFITTER (including

HVAC pipe and setting system)....\$ 25.90

-----PLUM0247-001 05/01/2020

RAPIDES PARISH

Rates Fringes

PLUMBER/PIPEFITTER (including

HVAC pipe and setting system)....\$ 26.50

\* SULA2004-005 05/19/2004

Rates

Fringes

Cement Mason/Concrete Finisher...\$ 16.89 \*\*

2.45

Power Equipment Operator

Oiler.....\$ 11.16 \*\* 3.09

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

\*\* Workers in this classification may be entitled to a higher minimum wage under Executive Order 14026 (\$17.75) or 13658 (\$13.30). Please see the Note at the top of the wage determination for more information. Please also note that the minimum wage requirements of Executive Order 14026 are not currently being enforced as to any contract or subcontract to which the states of Texas, Louisiana, or Mississippi, including their agencies, are a party.

\_\_\_\_\_\_

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

6/24/25, 11:33 AM SAM.gov

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

https://www.dol.gov/agencies/whd/government-contracts.

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) (iii)).

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

Union Rate Identifiers

A four-letter identifier beginning with characters other than ""SU"", ""UAVG"", ?SA?, or ?SC? denotes that a union rate was prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2024. PLUM is an identifier of the union whose collectively bargained rate 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. The date, 07/01/2024 in the example, is the effective date of the most current negotiated rate.

Union prevailing wage rates are updated to reflect all changes over time that are reported to WHD in the rates in the collective bargaining agreement (CBA) governing the classification.

Union Average Rate Identifiers

The UAVG identifier indicates that no single rate prevailed for those classifications, but that 100% of the data reported for the classifications reflected union rates. EXAMPLE: UAVG-OH-0010 01/01/2024. UAVG indicates that the rate is a weighted union average rate. OH indicates the State of Ohio. The next number, 0010 in the example, is an internal number used in producing the wage determination. The date, 01/01/2024 in the example, indicates the date the wage determination was updated to reflect the most current union average rate.

A UAVG rate will be updated once a year, usually in January, to reflect a weighted average of the current rates in the collective bargaining agreements on which the rate is based.

Survey Rate Identifiers

The ""SU"" identifier indicates that either a single non-union rate prevailed (as defined in 29 CFR 1.2) for this classification in the survey or that the rate was derived by

6/24/25, 11:33 AM SAM.gov

computing a weighted average rate based on all the rates reported in the survey for that classification. As a weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SUFL2022-007 6/27/2024. SU indicates the rate is a single non-union prevailing rate or a weighted average of survey data for that classification. FL indicates the State of Florida. 2022 is the year of the 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. The date, 6/27/2024 in the example, indicates the survey completion date for the classifications and rates under that identifier.

?SU? wage rates typically remain in effect until a new survey is conducted. However, the Wage and Hour Division (WHD) has the discretion to update such rates under 29 CFR 1.6(c)(1).

State Adopted Rate Identifiers

The ""SA"" identifier indicates that the classifications and prevailing wage rates set by a state (or local) government were adopted under 29 C.F.R 1.3(g)-(h). Example: SAME2023-007 01/03/2024. SA reflects that the rates are state adopted. ME refers to the State of Maine. 2023 is the year during which the state completed the survey on which the listed classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. The date, 01/03/2024 in the example, reflects the date on which the classifications and rates under the ?SA? identifier took effect under state law in the state from which the rates were adopted.

-----

### WAGE DETERMINATION APPEALS PROCESS

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

- a) a survey underlying a wage determination
- b) an existing published wage determination
- c) an initial WHD letter setting forth a position on a wage determination matter
- d) an initial conformance (additional classification and rate) determination

On survey related matters, initial contact, including requests for summaries of surveys, should be directed to the WHD Branch of Wage Surveys. Requests can be submitted via email to davisbaconinfo@dol.gov or by mail to:

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

Regarding any other wage determination matter such as conformance decisions, requests for initial decisions should be directed to the WHD Branch of Construction Wage Determinations. Requests can be submitted via email to BCWD-Office@dol.gov or by mail to:

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

6/24/25, 11:33 AM SAM.gov

2) If an initial decision has been issued, then any interested party (those affected by the action) that disagrees with the decision can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Requests for review and reconsideration can be submitted via email to dba.reconsideration@dol.gov or by mail 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 any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

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

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

END OF GENERAL DECISION"

### PART 1 GENERAL

### 1.01 WORK COVERED BY CONTRACT DOCUMENTS

### A. Summary

1. Reinforcing the south crane, rail beam and rail beam support system at Station D (2800 Peoples Avenue). This includes dust and debris, surface prep, permanent pilaster steel reinforcement bracket assemblies' installation, grout work, rail to runway beam fastening, rail splice connection, and runway beam to pilaster and wall anchorage.

### 1.02 EXPLANATION OF BID ITEMS

- A. Item No. 1 Mobilization and Demobilization, insurance and bonds complete in every detail and all-inclusive; lump sum (LS): Price includes mobilization costs, demobilization costs, and bonding cost complete in every detail and all inclusive. A maximum payment of 10% of total extended prices will be made for this item. Payment shall be made along with first monthly payment after commencement of all major construction. Includes field offices.
- B. Item No. 2 Dust and debris controlling complete in every detail and all-inclusive; lump sum (LS): Dust and debris capturing and monitoring.
- C. Item No. 3 Fabricate and deliver pilaster steel reinforcement assemblies, complete in every detail and all-inclusive; lump sum (LS): Fabrication, galvanization and delivery of all required steel reinforcement assemblies components as detailed in the construction drawings.
- D. Item No. 4 Installation of pilaster steel reinforcement assemblies, complete in every detail and all inclusive; lump (LS): Price includes surface preparations, complete installation of plates, plate washers and associated through bolts.
- E. Item No. 5 Provide and install grout, complete in every detail and all inclusive; lump (LS): Price includes complete pouring, vibrating and finishing grouting of pilaster steel reinforcement assemblies.
- F. Item No. 6 Rail bolt and Beam bolt installation, complete in every detail and all inclusive; lump (LS): Price includes providing and installing all required vertical and lateral bolt assemblies.
- G. Item No. 7 Paint, complete in every detail and all inclusive; lump (LS): Price includes painting all exterior installed components to match building.
- H. Item No. 8 Miscellaneous items, complete in every detail and all inclusive; lump (LS): Price includes supplying and installing rail splices, runway beams to steel corbels missing bolts, and other miscellaneous items outlined on the construction drawings.

### 1.03 AGREEMENT

- A. Construct Work under single unit price Agreement.
- 1.04 WORK BY OTHERS
  - NOT USED
- 1.05 WORK SEQUENCE
  - A. SEE DRAWINGS
- 1.06 CONTRACTORS USE OF PREMISES

Page 2, Rev. 3 - SECTION 01 01-20 March 11, 2021

- A. Limit use of premises to Work are surrounding equipment, so as to allow for station operations and occupancy.
- B. Limit Contractor's use of premises for Work and for storage, to allow for:
  - 1. Work by other contractors.
  - 2. Owner occupancy
  - 3. Public use.
- C. Coordinate use of premises under direction of Owner. Contractor shall confine construction equipment, storage of materials and equipment and operations of workers to areas permitted by law, ordinances, permits, or requirements of Contract Documents, and shall not unreasonably encumber premises with construction equipment or other material or equipment.
- Assume full responsibility for protection and safe keeping of items under this Agreement, stored on Site.
- E. Move any stored items, under Contractor's control, which interfere with operations of Owner or separate contractor.
- F. Obtain and pay for use of additional storage or Work areas needed for operations.

### 1.07 OWNER OCCUPANCY

- A. Owner will occupy premises during entire period of construction for conduct of its normal operations. Cooperate with Owner's Representative in all construction operations to minimize conflict, and to facilitate Owner usage.
- B. Contractor shall at all times conduct its operations as to ensure least inconvenience to general public.

### PART 2 PRODUCTS

**NOT USED** 

### PART 3 EXECUTION

**NOT USED** 

**END OF SECTION** 

### SECTION 03 36 00 – STRUCTURAL GROUT [SikaGrout 300 PT]

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

### 1.2 SUMMARY

A. This specification describes structural repair grouting.

### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Manufacturer's literature including Product Data Sheets, related Material Safety Data Sheets (MSDSA), and manufacturer installation instructions.
- C. Formwork Shop Drawings: Prepared by or under the supervision of a qualified professional engineer detailing fabrication, assembly, and support of formwork.
  - 1. Shoring and Reshoring: Indicate proposed schedule and sequence of stripping formwork, shoring removal, and reshoring installation and removal.
  - 2. Contractor to provided approved signage shop drawings prior to submitting formwork shop drawing.

### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer, manufacturer, and testing agency.
- B. Welding certificates (if applicable).
- C. Material Certificates: For each of the following, signed by manufacturers:
  - 1. Cementitious materials.
  - 2. Admixtures.
  - 3. Form materials and form-release agents.
  - 4. Bonding agents.
  - 5. Joint-filler strips.

### 1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who shall be qualified in the field of concrete repair and protection with a successful track record of 5 years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative.
- B. Manufacturer Qualifications: The manufacturer of the specified product shall be ISO 9001 certified and have in existence a recognized ongoing quality assurance program independently audited on a regular basis.
- C. Install materials in accordance with all safety and weather conditions required by manufacturer or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets for complete handling recommendations.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. All materials must be delivered in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Damaged material must be removed from the site immediately.
- B. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.
- C. Condition the specified product as recommended by the manufacturer.

### PART 2 - PRODUCTS

### 2.1 MANUFACTURER

A. Sika Corporation or approved equal.

### 2.2 MATERIALS

### A. General

- 1. The material shall be a blend of selected Portland cements, admixtures for controlling setting time, water reducers for workability, and an organic accelerator.
- 2. The materials shall be non-combustible, both before and after cure.
- 3. The materials shall be supplied in a factory-blended bag.
- 4. This material shall not contain sand and comply with section 2.03A.4 with respect to sieve analysis.

### 2.3 PERFORMANCE CRITERIA

- A. Typical properties of the fresh material:
  - 1. Color: concrete gray
  - 2. Working Time: Approximately 60 minutes
  - 3. Initial Set (ASTM C-953): Approximately 3-12 hours

- 4. Fine Aggregate (ASTM C-33)
  - a. 100% pass #30 Sieve
  - b. 99% pass #50 Sieve
  - c. 95 % pass #100 Sieve
  - d. 90% pass #170 sieve
- 5. Wet density (ASTMC-138) approximately 125 lbs. per cf.
- 6. Expansion (ASTM C-940) 3 hours between 0.0 and +2.0%
- 7. Fluidity Test (ASTM C-939 Modified per FL DOT section 938 & PTI section 4.4.5.2)
  - a. Immediately after mixing 7-20 seconds
  - b. 30 minutes after mixing 7-20 seconds
- 8. Bleeding (ASTM C-940 Modified per FL DOT Wick Induced Bleed Test)
  - a. 4 hours : 0.0%
- 9. Gelmen Pressure Induced Bleed Test (PTI Specification section 4.4.6.2 & Table 4-1 Grout Type C)
  - a. 0.0% bleed at 100 psi for 5 minutes
- 10. Simulated Field High Temperature Fluidity Test (Reference FL DOT Specification Section 938-5 & modified flow test per section 938-5)
  - a. Initial flow: 7-20 seconds per FLDOT modified flow test
  - b. 1 Hour flow: Less than 30 seconds
- 11. Total Chloride Ions (ASTM C-1152)
  - a. Less than 0.04% by weight of cemetitious material
- B. Typical properties of the cured material:
  - 1. Compressive Strength (ASTM C-942)
    - a. 1 day: 2,000 psi (20.0 MPa)
    - b. 3 days: 5,000 psi (33.3 MPa)
    - c. 7 days: 7,000 psi (46.7 MPa)
    - d. 28 days: 8,000 psi (53.3 MPa)
  - 2. Volume change (ASTM C-1090)
    - a. 24 hours 0.0% shrinkage
    - b. 28 Days Between 0 and +0.2% expansion
  - 3. W/C ratio: Less than 0.40
  - 4. Permeability (ASTM C-1202 modified per FL DOT section 938 and PTI Section 4.4.3)
    - a. 28 Days Less than 2,500 Coulombs
  - 5. Accelerated Corrosion Test (Reference FL DOT Specification Section 938-6)
    - a. Time To Corrosion
      - 1) Control 344 hours
      - 2) SikaGrout 300 PT greater than 1,000 hours

### PART 3 - EXECUTION

### 3.1 FORMWORK

- A. Fabricate and install formwork per the construction document and the approved shop drawings.
- B. All formwork must have a minimum of 3/4" gap between the brick surface and the formwork at locations to be grouted.

- C. Ensure forms will retain grout without leakage. Seal the bottom and sides of the forms with filler rods and caulk.
- D. Construct a temporary wood form around the top to allow grout reaching the beam bottom flange.

### 3.2 SURFACE PREPARATION

- A. Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Surface must be sound and roughened to promote mechanical adhesion. Prior to pouring, surface should be brought to a saturated surface-dry condition.
- B. Remove all loose pieces of brick and brick mortar. Remove any cracked pieces of brick and mortar even if they are not loose.
- C. Remove all paint from surface of brick by mechanical means.

### 3.3 MIXING AND APPLICATION

- A. For best results use a colloidal mixer similar to ChemGrout CG-600 series at approximately 1,800 rpm. Alternately, mechanically mix with high-speed drill (2500 rpm) and Sika jiffy paddle. Mix for approximately 3 minutes after the addition of the last bag or until a homogeneours mix is achieved. Continue to agitate material in the holding hopper to achieve best flow. Method of mixing may significantly affect the material properties, particularly flow. At higher temperatures and/or with higher water amounts, the grout will behave more non-thixotropically. Therefore, it may be more appropriate to measure the flow using the standard flow cone test (ASTMC-939). The expected efflux time is between 11-30 seconds under these conditions. Project specific testing by the engineer is recommended to ensure that the mixing and placement methods result in the specified requirements.
- B. Add appropriate quantity of clean water. Add bag of material to mixing vessel. Start by using 11.5 pints of water per 50lb. bag of material. Add additional water as needed (up to a total maximum of 13 pints per 50lb. bag) in order to achieve the flow specified on the technical data sheet. Ambient and material temperature should be as close as possible to 70F. If higher, use cold water, if colder use warm water.
- C. Make sure all forming, mixing, placing, and clean-up materials are on hand. The grout shall be used within 60 minutes from the start of mixing. The method of pumping grout shall ensure complete filling of all voids cracks, and otherwise tight space. A mock-up should be completed on-site and inspected by the engineer to ensure that the placement means and methods yield the specified results.
- D. Adhere to all procedures, limitations and cautions for the selected product in the manufacturers current printed technical data sheet and literature.

### 3.4 CLEANING

A. The uncured material can be cleaned from tools with water. The cured cement grout can only be removed mechanically.

B. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent areas.

### 3.5 FIELD QUALITY CONTROL

- A. Testing and Inspecting: Owner or owner's representative to engage a special inspector and qualified testing and inspecting agency to perform field tests and inspections and prepare test reports.
- B. Inspections:
  - 1. Surface preparation.
  - 2. Formwork installation.
  - 3. Verification of use of required design mixture.
  - 4. Grout placement, including conveying and depositing.
  - 5. Curing procedures and maintenance of curing temperature.

END OF SECTION 03 36 00

### SECTION 04 21 13 – BRICK MANSONRY ANCHOR

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

### 1.2 SUMMARY

### A. Section Includes:

1. Post-installed adhesive anchors into unreinforced brick masonry.

### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
  - 1. Product Literature: Manufacturer's descriptive product literature shall be submitted and shall consist of detailed specifications, available performance test data, surface preparation instructions and application instructions.
  - 2. Installation methods: Note environmental limitations such as temperature, humidity, and ventilation to remain within conditions recommended by manufacturer. Do not install under environmental conditions outside manufacturer's limits.
  - 3. Engineering Design Data: For each structural application, provide data substantiating specified design requirements, signed by the design professional.
  - 4. ICC ES Evaluation Report for each product.

### 1.4 QUALITY ASSURANCE

- A. Technical Data Sheet: Before delivery of the materials a copy of the manufacturer's Technical Data Sheet, attesting that materials meet the requirements specified must be submitted to and approved by the contracting officer as an alternate proof of performance.
- B. Installer Qualifications: A qualified installer who participates in the ACI Quality Certification Program and is designated an ACI Certified Installer.
- C. Comply with applicable provisions of the following specifications and documents:
  - 1. ACI 530.
  - 2. ASCE 6.
  - 3. TMS 602.

### 1.5 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of anchors and other construction contiguous with post-installed anchors by field measurements before installation.

### 1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials in manufacturer's original, unopened, undamaged packages bearing the manufacturer's name, product identifiers and lot numbers.
- B. Store materials in a dry location according to manufacturer's recommendations.

### PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. HILTI, INC. 7250 Dallas Parkway, Suite 1000 Plano, Texas 75024
- B. Other approved equal.

### 2.2 MATERIALS

- A. Adhesive Anchor: Hilti HIT-HY 270 or approved equal.
- B. Plastic Mesh Screen Tube: HIT-SC 26x200 or approved equal.
- C. Threaded Rods: ASTM F 1554, Grade 55 and/or Grade 105 as indicated on the construction drawings, weldable.

### PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Refer and comply with the manufacturer's safety data sheet and all local regulations.
- B. Inspect all areas involved in the work to establish the extent of work, access, and need for protection of surrounding construction.
- C. Do not begin installation until base materials have been properly prepared.
- D. Install only if environmental conditions are conducive to manufacturer's recommendations for installation conditions.
- E. Perform anchor installation in accordance with manufacturer instructions.

### 3.2 INSTALLATION

### A. General:

1-inch-diameter holes must be drilled using standard carbide-tipped masonry drill bits complying with ANSI Specification B212.15-1994. Holes must be drilled using a rotary drill or a rotary hammer drill. Assembly installation must be in accordance with Section 4.3.2 or 4.3.3, and Figure 3 of the ESR-4144. The adhesive must be allowed to cure for the full curing time listed below before anchors are loaded. Cure time refers to that period of cure after which hardware may be placed and nuts tightened. Design loads may not be applied until the full curing time has transpired. Installation must not occur when masonry temperatures are below 41 °F (5 °C). The Hilti HIT HY 270 Adhesive Anchor System is intended to resist only short-term loads imposed by wind or earthquake. The anchors must be approved by the registered professional and installed under special inspection in accordance with Section 4.5 of the ESR-4144.

Minimum Base Material Temperature	Gel Time	Curing Time
41F	10 minutes	4 hours
42-50F	7 minutes	2.5 hours
51-68F	4 minutes	1.5 hours
69-86F	2 minutes	30 minutes
87-104F	1 minutes	20 minutes

### B. Configuration:

Holes for threaded rods or reinforcing bars intended to resist shear only must be drilled perpendicular to the wall to a minimum embedment depth of 8 inches (203 mm). The holes must be cleaned with a wire brush and compressed air to remove debris. The Hilti HIT-HY 270 adhesive must be injected into the supplied plastic mesh screen tube that is then inserted into the predrilled hole. The threaded rod or reinforcing bar must be inserted and pushed into the screen tube in a rotating manner to force the adhesive into the hole.

### C. Field Test:

Tests for in-place mortar shear strength of the building must be done in accordance with Section A106.3.3 of the IEBC. In-place mortar shear strength testing must indicate a minimum mortar strength of 50 psi (345 kPa). Anchors resisting tension forces or a combination of tension and shear forces must be tested in accordance with Section A107.4 of the IEBC. The test report must include: 1. Test location(s) 2. Brick/mortar condition 3. Bolt movement/elongation 4. Embedment depth and masonry wall thickness 5. Applied load, loading procedure, load increments, and rate of loading.

### D. Special Inspection:

- 1. IBC and IRC: Continuous special inspection must be performed in accordance with Sections 1704 and 1705 of the IBC.
- 2. IEBC: Periodic inspection, direct-tension tests, and calibrated torque wrench tests must be performed in accordance with Section A107.4 of the IEBC. In lieu of testing and periodic inspection, the IEBC permits continuous special inspection during installation of bolts resisting shear forces only.

### 3.3 FIELD QUALITY CONTROL

- A. Testing Agency: Owner or owner's representative to engage a qualified independent testing and inspecting agency to inspect adhesive anchor installation.
- B. Installation of adhesive anchors shall be installed by qualified personnel in accordance with the construction documents as determined by the design professional.
- C. The qualified personnel shall install adhesive anchors in accordance with the Manufacture's Printed Installation Instructions (MPII).
- D. Installation of adhesive anchors shall be inspected in accordance with the construction documents as determined by the design professional.
- E. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

END OF SECTION 04 21 13

### SECTION 05 12 00 - STRUCTURAL STEEL

### PART 1 - GENERAL

### 1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

### 1.2 SUMMARY

- A. Section Includes:
  - 1. Structural steel.
  - 2. Grout.

### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Show fabrication of structural-steel components.
  - 1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
  - 2. Include embedment drawings.
  - 3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
  - 4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts.
  - 5. Identify pretensioned and slip-critical high-strength bolted connections.
  - 6. For structural-steel connections indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- C. Welding Procedure Specifications (WPSs) and Procedure Qualification Records (PQRs): Provide according to AWS D1.1, "Structural Welding Code Steel," for each welded joint whether prequalified or qualified by testing, including the following:
  - 1. Power source (constant current or constant voltage).
  - 2. Electrode manufacturer and trade name, for demand critical welds.
- D. Delegated-Design Submittal: For installed products indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

### 1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For qualified Installer, fabricator, and testing agency.
- B. Welding certificates.
- C. Mill test reports for structural steel, including chemical and physical properties.
- D. Product Test Reports: For the following:
  - 1. Bolts, nuts, and washers including mechanical properties and chemical analysis.
  - 2. Tension-control, high-strength bolt-nut-washer assemblies.
  - 3. Shear stud connectors.
  - 4. Shop primers.
  - 5. Nonshrink grout.

### 1.5 QUALITY ASSURANCE

- A. Fabricator Qualifications: A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD.
- B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector, Category CSE.
- C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1, "Structural Welding Code Steel."
  - Welders and welding operators performing work on bottom-flange, demand-critical welds shall pass the supplemental welder qualification testing, as required by AWS D1.8. FCAW-S and FCAW-G shall be considered separate processes for welding personnel qualification.
- D. Comply with applicable provisions of the following specifications and documents:
  - 1. AISC 303.
  - 2. AISC 360.
  - 3. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

### 1.6 PROJECT CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

### 1.7 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of anchorages, steel weld plates, and embedded plates and angles for casting into concrete. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

### 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.
  - 1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.
- B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.
  - 1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
  - 2. Clean and relubricate bolts and nuts that become dry or rusty before use.
  - 3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F 1852 fasteners and for retesting fasteners after lubrication.

### PART 2 - PRODUCTS

### 2.1 STRUCTURAL-STEEL MATERIALS

- A. W-Shapes: ASTM A992 Gr. 50.
- B. Channels, Angles Shapes: ASTM A572 Gr.50 or A709 Gr. 50 High Strength Steel.
- C. Square and rectangular tubes: ASTM A500 Gr. B.
- D. Plate and Bar: ASTM A 36.
- E. Steel Pipe: ASTM A 53 Grade B.
- F. Welding Electrodes: Comply with AWS requirements.

### 2.2 BOLTS, CONNECTORS, AND ANCHORS

A. High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish.

- B. Zinc-Coated High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade DH heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers.
  - 1. Hot-dip zinc coating.
  - 2. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with mechanically deposited zinc coating finish.
- C. Shear Connectors/ Shear Studs: ASTM A 108, Grades 1015 through 1020, headed-stud type, cold-finished carbon steel; AWS D1.1, Type B.
- D. Threaded Rods: ASTM F 1554, Grade 55 and/or Grade 105 as indicated on the construction drawings, weldable.
- E. Headed Anchor Rods: F 1554, Grade 55, weldable, ASTM A 354, ASTM A 449, straight.

### 2.3 PRIMER

- A. Low-Emitting Materials: Paints and coatings shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."
- B. Primer: Comply with Division 09 painting Sections.

### 2.4 GROUT

A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time. Minimum compressive strength of 8,000 psi, or as indicated on the construction drawings.

### 2.5 FABRICATION

- A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC's "Code of Standard Practice for Steel Buildings and Bridges" and AISC 360.
  - 1. Camber structural-steel members where indicated.
  - 2. Fabricate beams with rolling camber up.
  - 3. Identify high-strength structural steel according to ASTM A 6/A 6M and maintain markings until structural steel has been erected.
  - 4. Mark and match-mark materials for field assembly.
  - 5. Complete structural-steel assemblies, including welding of units, before starting shop-priming operations.
- B. Bolt Holes: Cut, drill, or punch standard bolt holes perpendicular to metal surfaces. All holes to be 1/16 larger than the bolt diameter unless noted overwise.

- C. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.
- D. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.
- E. Form exposed work with accurate angles and surfaces and straight edges.
- F. Weld corners and seams continuously to comply with the following:
  - 1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
  - 2. Obtain fusion without undercut or overlap.
  - 3. Remove welding flux immediately.
  - 4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing.
- G. Fabricate seams and other connections that will be exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.
- H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.
- I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.
- J. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.
- K. Cleaning: Clean and prepare steel surfaces that are to remain unpainted according to SSPC-SP 3, "Power Tool Cleaning.
- L. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1 and manufacturer's written instructions.

### 2.6 SHOP CONNECTIONS

- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 for type of bolt and type of joint specified.
  - 1. Joint Type: Snug tightened, Pretensioned, or Slip critical as indicated on the drawings.
- B. Weld Connections: Comply with AWS D1.1 for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
  - 1. Assemble and weld built-up sections by methods that will maintain true alignment of axes without exceeding tolerances in AISC 303 for mill material.

### 2.7 MISCELLANEOUS FRAMING AND SUPPORTS

- A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.
- B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
- C. Galvanize miscellaneous framing and supports where indicated.
- D. Prime miscellaneous framing and supports where indicated.

### 2.8 SHOP PRIMING

- A. Shop prime steel surfaces except the following:
  - 1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches.
  - 2. Surfaces to be field welded.
  - 3. Surfaces to be high-strength bolted with slip-critical connections.
  - 4. Surfaces to receive sprayed fire-resistive materials (applied fireproofing).
  - 5. Galvanized surfaces.
- B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
  - 1. SSPC-SP 3, "Power Tool Cleaning."
- C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
  - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.
  - 2. Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.
- D. Painting: Prepare steel and apply a one-coat, nonasphaltic primer complying with SSPC-PS Guide 7.00, "Painting System Guide 7.00: Guide for Selecting One-Coat Shop Painting Systems," to provide a dry film thickness of not less than 1.5 mils.

### PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify, with steel Erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
  - 1. Prepare a certified survey of bearing surfaces, anchor rods, bearing plates, and other embedments showing dimensions, locations, angles, and elevations.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.
  - 1. Do not remove temporary shoring supporting composite deck construction until cast-inplace concrete has attained its design compressive strength.

### 3.3 ERECTION

- A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
- B. Base Bearing and Leveling Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
  - 1. Set plates for structural members on wedges, shims, or setting nuts as required.
  - 2. Weld plate washers to top of baseplate.
  - 3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.
  - 4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure.
- C. Maintain erection tolerances of structural steel within AISC's "Code of Standard Practice for Steel Buildings and Bridges."
- D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that will be in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
  - 1. Level and plumb individual members of structure.

- 2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
- E. Splice members only where indicated.
- F. Shear Connectors: Prepare steel surfaces as recommended by manufacturer of shear connectors. Use automatic end welding of headed-stud shear connectors according to AWS D1.1/D1.1M and manufacturer's written instructions.

### 3.4 FIELD CONNECTIONS

- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325" for type of bolt and type of joint specified.
  - 1. Joint Type: Snug tightened, Pretensioned, or Slip critical as indicated on the drawings.
- B. Weld Connections: Comply with AWS D1.1 for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
  - 1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.
  - 2. Remove backing bars or runoff tabs where indicated, back gouge, and grind steel smooth.
  - 3. Assemble and weld built-up sections by methods that will maintain true alignment of axes without exceeding tolerances in AISC's "Code of Standard Practice for Steel Buildings and Bridges" for mill material.

### 3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Owner or owner's representative to engage a qualified independent testing and inspecting agency to inspect field welds and high-strength bolted connections.
- B. Bolted Connections: Bolted connections will be inspected according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- C. Welded Connections: Field welds will be visually inspected according to AWS D1.1.
  - 1. In addition to visual inspection, field welds to be tested and inspected according to AWS D1.1 and the following inspection procedures, at testing agency's option:
    - a. Ultrasonic Inspection: ASTM E 164.
- D. In addition to visual inspection, test and inspect field-welded shear connectors according to requirements in AWS D1.1/D1.1M for stud welding and as follows:
  - 1. Perform bend tests if visual inspections reveal either a less-than-continuous 360-degree flash or welding repairs to any shear connector.
  - 2. Conduct tests on additional shear connectors if weld fracture occurs on shear connectors already tested, according to requirements in AWS D1.1.

E. Correct deficiencies in Work that test reports and inspections indicate does not comply with the Contract Documents.

END OF SECTION 05 12 00

### SECTION 10 10 00 – CRANE RAIL AND RAIL SYSTEM

### PART 1 - GENERAL

### 1.1 SUMMARY

A. Contractor shall furnish and install the crane rails to ASTM A759 Standards, properly manufactured splice bars, and bolts.

### 1.2 SUBMITTALS

- A. Product Data: For the following:
  - 1. Rails
  - 2. Clips/bolts
  - 3. Pads
  - 4. Splice Connections
- B. Shop Drawings: Show fabrication and installation details for rails and clips/bolts.
  - 1. Include plans, elevations, sections, and details of rails and their connections. Show anchorage and accessory items.

### PART 2 - PRODUCTS:

### 2.1 Crane Rails –55 lbs. ASCE

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
  - 1. LB Foster & Company
  - 2. Atlantic Track
  - 3. Central Rail Supply LTD.
  - 4. Or Approved Equal
- 2.2 Crane Rail Clip Atlantic Track Crane Rail Clip No. 103 with all bolts, or approved equal.
  - A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
    - 1. Atlantic Track
    - 2 Gantrail
    - 3. Central Rail Supply LTD
    - 4. Or Approved Equal

B. Provisions shall be made per manufacturer's recommendations where clips coincide with rail splice bars.

### 2.3 RAIL SPLICE MATERIALS

- A. Splice bars shall be manufactured for crane service to match the rail size provided for the project.
- B. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
  - 1. LB Foster & Company
  - 2. Atlantic Track
  - 3. Central Rail Supply LTD.
  - 4. Or Approved Equal
- C. The joint bar bolts shall have straight shanks to the head and shall be manufactured to ASTM A325 specifications or approved equal. Nuts shall be manufactured to ASTM A563 specifications or approved equal.

### 2.4 CRANE RAIL PADS FOR 55 LBS RAILS:

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the manufacturers specified.
  - 1. Atlantic Track
  - 2. Gantrail
  - 3. Central Rail Supply LTD
  - 4. Or Approved Equal
- B. The rail pads shall be installed continuously under each rail with alignment, joint spacing and locations per manufacturer's recommendations.
- C. Keepers shall be provided at ends of pads adjacent to expansion joint gaps as recommended by pad manufacturer.

### 2.5 SPECIAL CONNECTORS AND PADS

### A. GENERAL

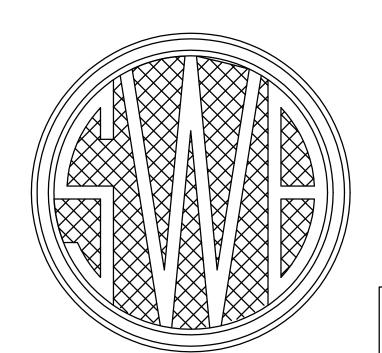
- 1. Contractor shall furnish the special crane rail connectors and pads per the requirements stated in the Construction Drawings. Contractor shall coordinate with the materials and equipment manufacturer the installation and required adjustments of the special connectors and pads. Contractor shall take the necessary precautions to protect these items upon arrival at Contractor's shop, yard and/or the job site. It will be the Contractor's responsibility to determine, based on the manufacturers that are selected, the required trades, labor, and equipment to install these items.
- 2. Contractor shall submit for engineering review the item placement information plan on the crane rail system in addition to the manufacturer's data.

### PART 3 - EXECUTION

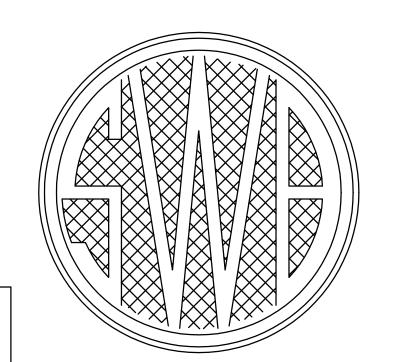
### 3.1 INSTALLATION

- A. Contractor shall provide submittal plans of the crane rail installation for Engineer's review.
- B. Rails shall be arranged so that joints on opposite sides of crane runways will be staggered with respect to each other and with due consideration to the wheel bases of cranes.
- C. Odd lengths, which may be necessary to complete a run or obtain the necessary stagger, shall not be less than 10 ft. long.
- D. All rail joints shall be tight and shall be bolted using splice bars that are properly built to match the rail section. Rail ends shall be finished by milling or grinding. Holes of proper size and spacing shall be punched or drilled in the rails and splice bars.
- E. Crane rails shall be installed in compliance with CMAA Specification #70 tolerances.

## SEWERAGE AND WATER BOARD



### OF NEW ORLEANS

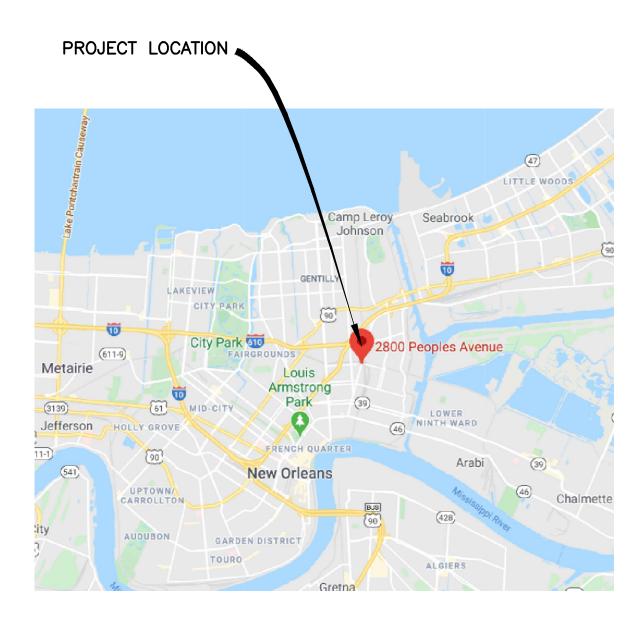


### ENGINEERING DEPARTMENT

### SWBNO CONTRACT NUMBER 5255

# SUPPORT REPAIR/REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D

SHEET INDEX			
SHEET	SHEET NO.	DESCRIPTION	
GENERAL			
1	G-000	COVER SHEET	
2	G-001	NOTE SHEET	
CONSTRUCTION			
3	C-001	PLAN VIEW	
4	C-002	SAMPLE REPAIR ITEM PHOTOS	
5	C-003	CONST. SEQUENCE / DETAILS	
6	C-004	DETAILS	
7	C-005	DETAILS	





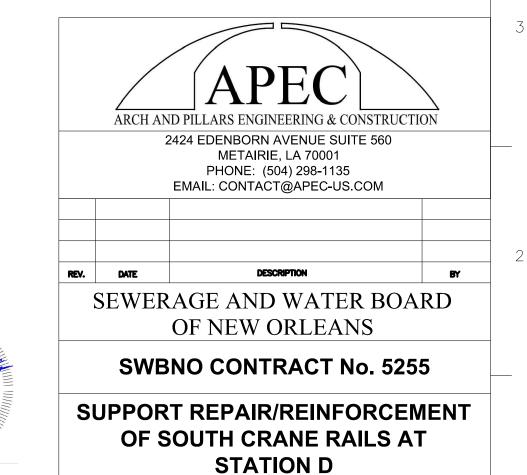


SITE MAP

NO SCALE

DRAWING SET HAVE BEEN RECEIVED BY THE SEWERAGE AND WATER BOARD OF NEW ORLEANS AND HEREBY FORWARDED FOR PROCUREMENT. THE SEWERAGE AND WATER BOARD OF NEW ORLEANS DOES NOT RELEASE CONSULTANT/DESIGNER FROM ANY LEGAL LIABILITY THAT MAY ARISE FROM THE BOARD'S ACCEPTANCE OR USE OF THE ATTACHED DRAWING SET FOR THEIR INTENDED PURPOSE.

GENERAL SUPERINTENDENT



THESE PLANS ARE ORIGINALLY PRINTED ON 24"x36" PAPER.

PROJECT LOCATION

DR. AZT
TRC. n/a
CK. AZT
AP. AZT
SCALE: AS NOTED
DATE: 04/06/2024
SET NO.

CG-000

G-000

G-0

### DESIGN CODES AND SPECIFICATIONS

2021 INTERNATIONAL BUILDING CODE, IBC-2021

2016 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, ASCE7-16

2016 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC360-16 2019 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, ACI318-19

2016 BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES. TMS402-16 2020 SPECIFICATIONS FOR TOP RUNNING BRIDGE & GANTRY TYPE MULTIPLE GIRDER ELECTRIC OVERHEAD TRAVELING CRANES, CMAA70-20

### EXISTING BUILDING INFORMATION

BUILDING TYPE: BRICK MASONRY BEARING WALLS WITH STEEL ROOF

BUILDING DIMENSIONS: 181'-6" LONG BY 93'-8" WIDE

TWO 20TON DOUBLE BRIDGE GIRDER, RUNNING OVERHEAD CRANE: SIDE-BY-SIDE

43'−8½" EACH CRANE RAIL SPACING:

CRANE RAIL HEIGHT: CRANE RAIL SUPPORT: S18x54.7 RUNWAY BEAM SEGMENTS SUPPORTED ON

CRANE RAIL: ASCE 55# [4" TALL]

### DESIGN ASSUMPTIONS

1. THE EXISTING CRANE GIRDER SUPPORT BRICK MASONRY PILASTERS ARE ASSUMED TO HAVE ADEQUATE CAPACITY TO SUPPORT THE CRANE LOADS AND TRANSFER THE LOADS TO THE FOUNDATION, IN ADDITION, THE BRICK MASONRY PILASTERS ARE ASSUMED TO BE BEARING ON SOLID FOUNDATION THAT CAN SUPPORT THE CRANE LOADS AND ANY OTHER

BRICK MASONRY PILASTERS AND STEEL COLUMNS

2. THE CRANE SUPPORT STEEL COLUMNS ARE ASSUMED TO BE BEARING ON SOLID FOUNDATION THAT CAN SUPPORT THE CRANE LOADS AND ANY OTHER EXISTING LOADS.

3. COMPRESSIVE STRENGTH OF EXISTING BRICK MASONRY ASSEMBLY: 800PSI [ASSUMED]

4. CRANE SELF WEIGHT: 45,000 LB [ASSUMED]

### DESIGN LOADS AND PARAMETERS

 CRANE SELF WEIGHT: MAXIMUM WHEEL LOAD:

SERVICE CLASS:

20 TONS [40,000 LB] 45,000 LB [ASSUMED] 33,000 LB [CALCULATED] CLASS A [STANDBY OR INFREQUENT SERVICE]

1.1 [FOR PENDANT CONTROLLED CRANE]

37,000 LB PER WHEEL [CALCULATED]

3,000 LB PER WHEEL [CALCULATED] 7,000 LB PER WHEEL [CALCULATED]

26,000 LB PER SIDE [CALCULATED]

125% OF RATED CAPACITY

 LOAD CLASS: LOAD CYCLES: DEAD LOAD FACTOR: 1.13 FOR BRIDGE, 1.1 FOR TROLLEY HOIST LOAD FACTOR:

 VERTICAL IMPACT FACTOR CRANE TEST LOAD LIMIT: DESIGN VERTICAL LOAD: DESIGN LATERAL LOAD:

 DESIGN LONGITUDINAL LOAD: CRANE BUMPER IMPACT FORCE:

GENERAL NOTES

1. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE, AND ALL REQUIREMENTS OF THE CITY OF NEW ORLEANS BUILDING DEPARTMENT.

2. THE CONTRACTOR SHALL PROVIDE WORKMANS COMPENSATION INSURANCE & LIABILITY

3. THE CONTRACTOR SHALL GUARANTEE ALL LABOR AND MATERIAL FOR A MINIMUM OF ONE

4. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY

5. DETAILS SHOWN ON TYPICAL DETAIL SHEETS SHALL BE USED WHENEVER APPLICABLE, UNLESS OTHERWISE SHOWN. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER TYPICAL DETAILS. SPECIFIC NOTES SHOWN ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES. NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER SPECIFICATIONS

6. ALL CONSTRUCTION MATERIAL SHALL BE NEW MATERIAL, UNLESS OTHERWISE APPROVED OR SPECIFIED BY ENGINEER.

7. THE DESIGN CONSULTANTS ASSUME NO RESPONSIBILITY FOR THE PERFORMANCE OF PRODUCTS OR MATERIALS NOT SPECIFIED IN THESE DRAWINGS.

8. ACCEPT NO INK OR PENCIL CORRECTIONS TO THESE DRAWINGS WITHOUT THE ENGINEER SIGNATURE. THE DESIGN CONSULTANTS SHALL BE HELD HARMLESS FOR ALL CHANGES NOT IN CONFORMANCE WITH THIS PROVISION.

9. WHERE DIMENSIONS ARE SHOWN ON THE PLANS, THEY SHALL GOVERN OVER SCALE. IN THE EVENT OF CONTRADICTION, USE THE MOST STRINGENT SPECIFICATION AND NOTIFY THE ENGINEER. THE CONTRACTOR SHALL EXERCISE CARE TO PROTECT ADJACENT PROPERTIES DURING HIS OPERATIONS.

10. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR AND SUBCONTRACTORS SHALL REMOVE SURPLUS MATERIALS AND DEBRIS FROM THE SITE. CONTRACTOR SHALL REMOVE ALL DELETERIOUS MATERIAL FROM SITE INCLUDING BUT NOT LIMITED TO; BROKEN CONCRETE, STUMPS, ROCKS, DEBRIS, ASPHALT RUBBLE, GARBAGE, ETC. AND LEGALLY DISPOSE OF ABOVE.

11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE SAFETY REQUIREMENTS. CONTRACTOR MUST INSTALL JOB SAFETY BARRIERS AROUND THE JOB SITE PRIOR TO START OF CONSTRUCTION ACTIVITIES.

12. ALL PENETRATIONS THROUGH THE BUILDING ENVELOPE MUST BE SEALED, WEATHERPROOFED, WATERPROOFED, AND INSULATED.

13. CONTRACTOR MUST COORDINATE AND PLAN FOR FINAL INSTALLATION OF ALL EQUIPMENT, DEVICES, FIXTURES, AND CABINET AND PROVIDE BLOCKING AS NEEDED.

14. CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS ON OR ADJACENT TO PROJECT SITE. CONTRACTOR SHALL REPAIR OR REPLACE ALL DAMAGE TO EXISTING IMPROVEMENTS TO THE SATISFACTION OF THE BUILDING DEPARTMENT OR PRIVATE PROPERTY OWNER

15. ALL USERS OF THESE DRAWINGS AGREE, BY USING THESE DRAWINGS, TO HOLD THE DESIGN CONSULTANTS HARMLESS FOR ANY AND ALL WORK THAT DOES NOT CONFORM TO THE REQUIREMENTS AND MINIMUM STANDARDS OF THE I.B.C., ORDINANCES, AND

16. THESE DRAWINGS ARE THE PROPERTY OF THE DESIGN CONSULTANTS AND ARE NOT TO BE USED IN PART FOR ANY WORK OTHER THAN THE LOCATION SHOWN HEREON.

### PRE-CONSTRUCTION NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS DEPICTED IN THE PLANS PRIOR TO ORDERING ANY MATERIALS AND PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.

2. CONTRACTOR SHALL COMPARE ALL PAGES OF THE PLANS; ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.

3. CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS AND DIMENSIONS BEFORE STARTING WORK. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES.

4. CONTRACTOR SHALL INSPECT ALL EXISTING BUILDING ELEMENTS RELATED TO THE WORK UNDER THESE DRAWINGS. CONTRACTOR SHALL VERIFY ALL THE EXISTING CONDITIONS NOTED ON THESE DRAWINGS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

### INSPECTIONS

THE CONTRACTOR MUST COORDINATE ALL THE REQUIRED INSPECTIONS. ALL INSPECTIONS MUST BE PERFORMED BY PROPERLY LICENSED INSPECTORS. THE REQUIRED INSPECTIONS INCLUDE BUT NOT LIMITED TO THE FOLLOWING ACTIVITIES:

1. CONCRETE FORMWORK, REINFORCEMENT INSTALLATION, AND CONCRETE POUR.

2. GROUT FORMWORK AND GROUT POUR.

5. POST INSTALLED EPOXY ANCHORS.

3. PREPARED SURFACES PRIOR TO GROUTING.

4. CAST IN-PLACE ANCHOR INTO CONCRETE OR GROUT.

6. FIELD WELDING AND FIELD MODIFICATION OF STRUCTURAL STEEL.

### SUBMITTALS

THE FOLLOWING ITEMS REQUIRES SUBMITTALS TO BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND DELIVERY TO THE SITE:

1. SHOP DRAWING FOR FABRICATED STRUCTURAL STEEL COMPONENTS.

2. CONCRETE/GROUT MIX DESIGN.

3. HIGH STRENGTH GROUT MATERIAL SPECIFICATION.

4. CRANE RAIL COMPONENT CUT SHEETS AND MATERIAL SPECIFICATION.

5. MILL CERTIFICATION FOR STRUCTURAL STEEL SECTIONS AND PLATES.

6. MILL CERTIFICATION FOR HIGH STRENGTH BOLTS, NUTS, AND THREADED RODS.

### STEEL

1. ALL STRUCTURAL STEEL MATERIAL SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS UNLESS OTHERWISE INDICATED IN THE PLANS OR SPECIFICATIONS. ANY NECESSARY SUBSTITUTION MUST HAVE PRIOR APPROVAL OF THE ENGINEER:

W & WT SECTIONS A992 ANGELS & CHANNELS A36 A500 GR. B ANCHOR RODS A1554 GR. 55 A325 BOLTS A563 NUTS WASHERS

2. ALL STRUCTURAL STEEL FABRICATION AND ERECTION MUST CONFORM TO ALL REQUIREMENTS OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL, 16TH EDITION, AND SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, AISC360-16.

3. ALL WELDS SHALL BE PERFORMED BY QUALIFIED AND CERTIFIED WELDERS IN ACCORDANCE WITH THE RELATED AWS SPECIFICATIONS. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH REQUIREMENTS OF AWS D1.1.

4. OVERSIZED OR SLOTTED HOLES SHALL NOT BE USED FOR ANY CONNECTIONS UNLESS SPECIFICALLY INDICATED ON THE PLANS OR APPROVED IN WRITING BY THE ENGINEER.

5. ALL STANDARD SIZE HOLES SHALL BE THE DIAMETER OF THE BOLT PLUS  $\chi_6$ .

6. ALL FABRICATION ACTIVITIES SHALL BE PERFORMED IN THE SHOP AS MUCH AS POSSIBLE. ALL FIELD WELDING, CUTTING, DRILLING, AND OTHER MODIFICATIONS REQUIRE PRIOR APPROVAL FROM THE ENGINEER AND MUST BE PERFORMED BY A CERTIFIED WELDER/FABRICATOR.

### CONCRETE [IF USED]

1. CONCRETE SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CHAPTER 19 OF THE INTERNATIONAL BUILDING CODE- 2021 EDITION.

### 2. MATERIALS:

2.1. CONCRETE: 2.1.1. CONCRETE SHALL BE READY-MIXED AND SHALL CONFORM TO ASTM

THE MAXIMUM WATER-CEMENT RATIO FOR STRUCTURAL CONCRETE SHALL BE PER ACI 318 CHAPTER 19.

2.1.3. MAXIMUM AGGREGATE SIZE - 1 1/2 INCHES

2.1.4. SLUMP - 4 INCHES PLUS OR MINUS 1 INCH

2.1.5. 28 DAY COMPRESSIVE STRENGTH - 4,000 P.S.I. CEMENT - PORTLAND CEMENT CONFORMING TO ACI 318 SEC 26.4 AGGREGATES — SHALL CONFORM TO THE IBC-LATEST ADOPTED

2.1.8. ADMIXTURES — WILL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.

2.2. REINFORCEMENT: 2.2.1. REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 40 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING THE SIZE, TYPE OF STEEL AND YIELD STRENGTH. ALL WELDED REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A706.

3. CONCRETE COVERAGE TO FACE OF REINFORCING BARS, UNLESS OTHERWISE NOTED ON PLANS, SHALL BE: 3.1. 3 INCHES WHERE CONCRETE IS CAST AGAINST AND PERMANENTLY

EXPOSED TO EARTH. 3.2. 1 1/2 INCHES FOR # 5 OR SMALLER BARS WHERE CONCRETE IS

EXPOSED TO EARTH OR WEATHER AFTER THE REMOVAL OF FORMS. 3.3. 3/4 INCH FOR #11 BARS AND SMALLER IN SLABS AND WALLS WHERE CONCRETE IS NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND.

### 4. FORMS:

4.1. FORMS SHALL CONFORM TO THE SHAPE, LINES AND DIMENSIONS SHOWN ON THE PLANS AND SHALL BE SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF MORTAR ABOVE FINISHED GRADE. FORMS SHALL BE SECURELY BRACED AND HELD IN PLACE. CONCRETE FOOTINGS BELOW THE FINISHED GRADE MAY BE FORMED. FORMS (AND SOIL THAT CONCRETE WILL BE PLACED AGAINST) SHALL BE WETTED DOWN JUST PRIOR TO PLACING CONCRETE. ALL FORMS SHALL BE REMOVED AFTER THE CONCRETE HAS SET.

5 WORKMANSHIP

5.1. REINFORCING: REINFORCING BARS SHALL BE ACCURATELY PLACED AND SECURED AND SHALL BE SUPPORTED BY CHAIRS, SPACERS OR HANGERS. ALL BAR SPLICES SHALL BE LAPPED A MINIMUM OF 40 BAR DIAMETERS UNLESS OTHERWISE SHOWN. STAGGER SPLICES WHEN POSSIBLE. REINFORCING SHALL BE FREE OF ALL LOOSE RUST OR

5.2. PLACING: THE CONCRETE SHALL BE PLACED IN A MANNER SO AS TO PREVENT SEPARATION OF THE AGGREGATE AND SHALL BE WELL CONSOLIDATED TO PREVENT THE FORMING OF VOIDS.

5.3. SLUMP: SLUMP TESTS ARE TO CONFORM TO ASTM C143-78. 5.4. FINISHING: THE TOP OF THE FLOOR SLAB SHALL BE GIVEN A LIGHT BROOM FINISH. FORMED SURFACES SHALL BE GIVEN A SACK FINISH. ALL VOIDS AND HOLES SHALL BE REPAIRED PRIOR TO FINISHING.

5.5. CURING: CONCRETE MUST BE WET CURED CONTINUOUSLY AND UNINTERRUPTED FOR A MINIMUM OF 7 DAYS SUBSEQUENT TO INITIAL SETUP. BEFORE BEING LOADED WITH BUILDING LOADS (EQUIPMENT, MAT'L., ETC...). CONTRACTOR IS RESPONSIBLE TO ENSURE THAT CONCRETE IS SUFFICIENTLY CURED BEFORE SERVICE LOADS ARE APPLIED TO CONCRETE.

NON-SHRINK HIGH STRENGTH GROUT FOR PILASTER REINFORCEMENT.

. USE SIKAGROUT 300PT OR APPROVED EQUAL. 2. ENSURE FORMS WILL RETAIN GROUT WITHOUT LEAKAGE. THE SPECIFIED GROUT IS A SAND-FREE LOW VISCOSITY GROUT THAT CAN LEAK THROUGH SMALL GAP BETWEEN THE

C D E F G H J K

- FORM AND BRICK SURFACE.
- 3. REMOVE ALL LOOSE PIECES OF BRICK AND BRICK MORTAR. REMOVE ANY CRACKED PIECES OF BRICK AND MORTAR EVEN IF THEY ARE NOT LOOSE.
- 4. REMOVE PAINT FROM THE SURFACE OF THE BRICK PILASTER THAT WILL BE COVERED BY THE STEEL FORM. PAINT MUST BE FULLY REMOVED WITH MECHANICAL WIRE BRUSH OR OTHER MEANS.
- 5. REMOVE ALL DIRT, OIL, GREASE, AND OTHER BOND-INHIBITING MATERIALS BY MECHANICAL MEANS.
- 6. PRIOR TO GROUTING BRICK SURFACE SHOULD BE BROUGHT TO A SATURATED SURFACE-DRY CONDITION. 7. MIX GROUT PER THE MANUFACTURER INSTRUCTION.
- 8. USE MINIMUM AMOUNT OF WATER IN THE MIX. DO NOT EXCEED 11.5 PINTS OF WATER PFR 50LB BAG.
- 9. MIXED GROUT MUST BE USED WITHIN 50 MINUTES FROM THE START OF MIXING. 10. RECOMMEND SETTING UP A MOCK-UP FORM ON-SITE TO ENSURE THE GROUT PLACEMENT MEANS AND METHODS YIELD THE SPECIFIED RESULTS
- 11. ONLY PLACE GROUT WHEN THE AMBIENT AND SUBSTRATE TEMPERATURE IS WITHIN 40°F

### CMAA-70 TOLERANCE TABLE 1.4.2-1

ITEM	FIGURE	OVERALL TOLERANCE	MAXIMUM RATE OF CHANGE
CRANE SPAN (L)	MAX. L = L+A  MIN. L = L-A  NOMINAL SPAN [L]	L $\leq$ 50' A = $\frac{3}{6}$ " L > 50' $\leq$ 100' A = $\frac{1}{4}$ " L > 100' A = $\frac{3}{8}$ " Lr = RUNWAY GIRDER SPAN	¼" IN 20'-0"
STRAIGHTNESS (B)	+B -B	B = 3%"	¼" IN 20'-0"
ELEVATION (C)	+C -C	C = 3%"	¼" IN 20'-0"
RAIL—TO—RAIL ELEVATION (D)	SPAN SPAN D	L $\leq$ 50' A $=\pm\frac{3}{16}$ " L > 50' $\leq$ 100' A $=\pm\frac{1}{16}$ " L > 100' A $=\pm\frac{3}{16}$ "	¼" IN 20'-0"

ALLOWABLE DEFLECTIONS:

LATERAL DEFLECTION: Lr/400 BASED ON 10% OF MAXIMUM WHEEL LOAD VERTICAL DEFLECTION: Lr/600 BASED ON MAXIMUM WHEEL LOAD

License No. 38856

OF SOUTH CRANE RAILS AT STATION D

1 INCH →

G-001TRC. n/a CK. AZT AP. AZT DWG. No. **12169-W-8** SCALE: AS NOTED DATE: 04/06/2024 **SHEET NO.** 02 OF 07 SET NO.

ARCH AND PILLARS ENGINEERING & CONSTRUCTION

2424 EDENBORN AVENUE SUITE 560

METAIRIE, LA 70001

PHONE: (504) 298-1135

EMAIL: CONTACT@APEC-US.COM

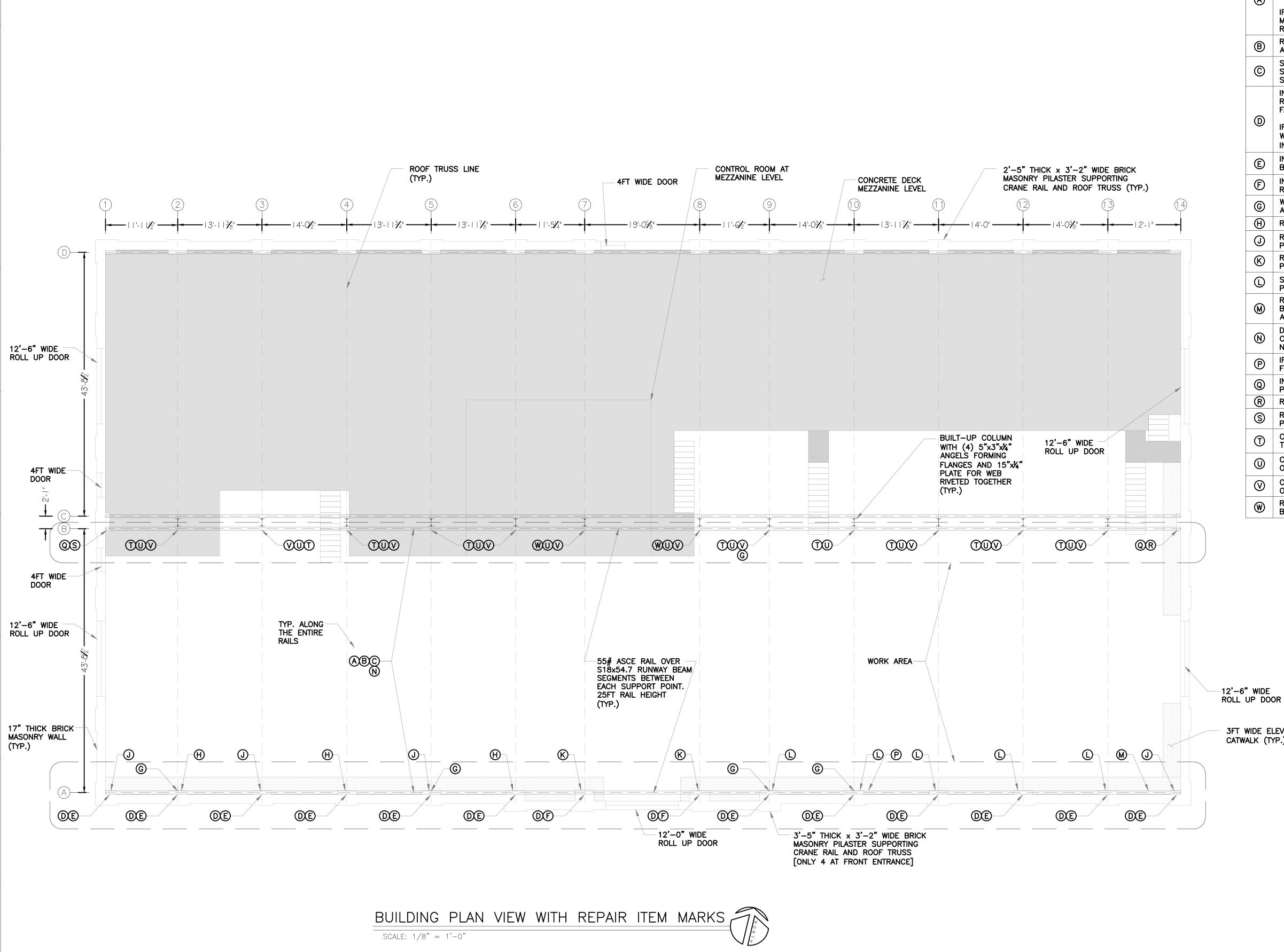
SEWERAGE AND WATER BOARD

OF NEW ORLEANS

SWBNO CONTRACT No. 5255

SUPPORT REPAIR/REINFORCEMENT

THESE PLANS ARE ORIGINALLY PRINTED ON 24"x36" PAPER.



THE RAIL ASSEMBLIES OF THE SOUTH CRANE WERE INSPECTED DURING SEVERAL SITE VISITS IN JUNE AND JULY OF 2020. ALL ITEMS NOTED HEREIN ARE RELATED TO

SEGMENTS, SOUTH RUNWAY BEAM SEGMENTS TO BRICK PILASTERS AND BRICK WALL ANCHORAGES, AND NORTH RUNWAY BEAM SEGMENTS TO STEEL SUPPORT COLUMNS ATTACHMENTS WERE VISUALLY INSPECTED TO THE EXTEND POSSIBLE AS ALLOWED BY ACCESS AND VISIBILITY LIMITATIONS. THE REPAIR AND REINFORCEMENT OF THESE

THE NORTH AND SOUTH RAIL ASSEMBLIES OF THE SOUTH CRANE. THE RAILS, RAIL ATTACHMENTS TO RUNWAY BEAMS, RAIL SPLICE CONNECTIONS, RUNWAY BEAM

ITEMS ARE TABULATED ON THE RIGHT OF THIS SHEET.

REPAIR AND REINFORCEMENT TABLE MARK DESCRIPTION BOTH RAILS HAVE SIGNIFICANT LATERAL OUT OF STRAIGHTNESS. THE CONTRACTOR TO VERIFY THAT THE CRANE'S END TRUCKS CAN ACCOMMODATE THE EXISTING OUT OF STRAIGHTNESS OF THE RAILS AND REPORT TO THE OWNER IF OTHERWISE. IF ANY PORTION OF THE RAIL OR RUNWAY BEAM IS MOVED, REMOVED OR IN ANY MANNER MODIFIED, THE CONTRACTOR MUST REINSTALL THAT PORTION PER THE TOLERANCE REQUIREMENTS OF THE CMAA-70 SHOWN ON THE NOTE SHEET. REPLACE ALL THE J-BOLTS FOR RAILS TO RUNWAY BEAMS ON BOTH SIDES OF NORTH AND SOUTH RAILS. SPLICE PLATES REQUIRED ON BOTH SIDES OF RAILS. IF PLATES MISSING ON THE BACK SIDE, ADD SPLICE PLATE PER DETAIL. REPLACE ALL RAIL SPLICE BOLTS WITH NEW SPECIFIED BOLTS. INSTALL NEW SETS OF LATERAL ANCHORS NEAR THE EXISTING ANCHOR FOR SOUTH RUNWAY BEAMS TO THE BRICK WALL. THE NEW ANCHORS MUST EXTEND TO THE OUTSIDE FACE OF THE BRICK WALL AND BE SECURED WITH PLATE WASHERS. IF EXISTING COLLAR [OVER EXISTING LATERAL ANCHORS] BETWEEN THE RUNWAY BEAM WEB AND THE BRICK WALL IS MISSING AT ANY LOCATION, NEW PIPE COLLAR TO BE INSTALLED WITH 3" OUTER DIAMETER BY 3/6" THICK PLATE WASHER ON THE BRICK SIDE. INSTALL NEW SETS OF VERTICAL ANCHORS AT ENDS OF ALL SOUTH RUNWAY BEAMS INTO BRICK PILASTERS PERP PROVIDED DETAILS. INSTALL ADDITIONAL VERTICAL ANCHORS NEAR THE EXISTING ANCHORS AT ENDS OF RUNWAY BEAMS PER PROVIDED DETAILS.

REMOVE LOOSE BRICK MORTAR AND REINFORCE TOP OF PILASTER PER PROVIDED DETAILS.

ALIGN THE ENDS OF THE RUNWAY BEAMS AS MUCH AS POSSIBLE.

WHEN INSTALLING THE NEW LATERAL ANCHORS, THE CONTRACTOR SHOULD ATTEMPT TO

REMOVE LOOSE CRACKED BRICKS AND LOOSE BRICK MORTAR AND REINFORCE TOP OF PILASTER PER PROVIDED DETAILS.

REMOVE ALL LOOSE MATERIAL FROM THE FACE OF PILASTER AND REINFORCE TOP OF PILASTER PER PROVIDED DETAILS.

SHORE RUNWAY BEAMS AS NEEDED AT THIS LOCATION. REMOVE ALL THE FAILED/CRACKED PIECES OF BRICKS AND REINFORCE TOP OF PILASTER PER PROVIDED DETAILS.

REMOVE THE PIECE OF LUMBER THAT IS BOLTED TO THE UNDERSIDE OF THE RUNWAY BEAM TO ALLOW FOR THE REINFORCEMENT WORK THAT NEEDS TO BE DONE ON THE ADJACENT PILASTERS.

DURING THE RUNWAY BEAM VERTICAL AND LATERAL ANCHOR INSTALLATION ACTIVITIES, THE CONTRACTOR TO INSPECT THE CONDITION OF ALL NORTH AND SOUTH RUNWAY BEAMS AND

NOTIFY THE ENGINEER OF ANY EXCESSIVE RUSTING OR MATERIAL LOSS. IF NEEDED, REMOVE THE WATER LEVEL GAUGE ON THE EAST SIDE OF PILASTER TO ALLOW

FOR THE PILASTER REINFORCEMENT WORK THAT NEEDS TO BE DONE. INSTALL VERTICAL ANCHORS AT THE ENDS OF THE RUNWAY BEAMS INTO PILASTER PER PROVIDED DETAILS.

REINFORCE TOP OF PILASTER PER PROVIDED DETAILS.

REMOVE LOOSE CRACKED BRICKS AND LOOSE BRICK MORTAR AND REINFORCE TOP OF PILASTER PER PROVIDED DETAILS.

CONTRACTOR TO INSPECT THE VERTICAL AND LATERAL ANCHORS OF THE RUNWAY BEAMS TO THE SUPPORT COLUMN. REPORT TO THE OWNER IF ANY ADVERSE CONDITION EXISTS.

CONTRACTOR TO INSPECT THE RUNWAY SUPPORT CORBEL BRACKETS AND REPORT TO THE OWNER IF ANY ADVERSE CONDITIONS EXISTS.

BRACKET CONNECTIONS. USE A325 BOLTS WITH SAME DIAMETER AS EXISTING BOLTS.

CONTRACTOR TO INSPECT THE BUILT-UP STEEL SUPPORT COLUMNS AND REPORT TO THE

OWNER IF ANY ADVERSE CONDITIONS EXISTS. REPLACE THE MISSING AND LOOSE BOLTS FOR THE RUNWAY BEAM TO SUPPORT CORBEL

3FT WIDE ELEVATED CATWALK (TYP.)



SEWERAGE AND WATER BOARD OF NEW ORLEANS

DESCRIPTION

**SWBNO CONTRACT No. 5255** 

SUPPORT REPAIR/REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D

**SHEET NO.** 03 OF 07

THESE PLANS ARE ORIGINALLY PRINTED ON 24"x36" PAPER.

License No. 38856

1 INCH →

DATE: 04/06/2024

**C-001** TRC. n/a CK. AZT AP. AZT DWG. No. **12169-W-8** SCALE: AS NOTED

SET NO.



SAMPLE OF ITEM: B

RAIL TO RUNWAY BEAM ANCHOR MISSING NUT



SAMPLE OF ITEM: (E)

HOLES IN BOTTOM FLANGE OF THE RUNWAY BEAMS WITH NO ANCHORS



SAMPLE OF ITEM: G

RUNWAY BEAM SEGMENTS ARE NOT ALIGN WITH ONE ANOTHER



SAMPLE OF ITEM: (J)

PILASTER BRICK CRACKS AND MORTAR FAILURE



SAMPLE OF ITEM: (K)

PREVIOUS PILASTER REPAIR SHOWS SIGNS OF FAILURE

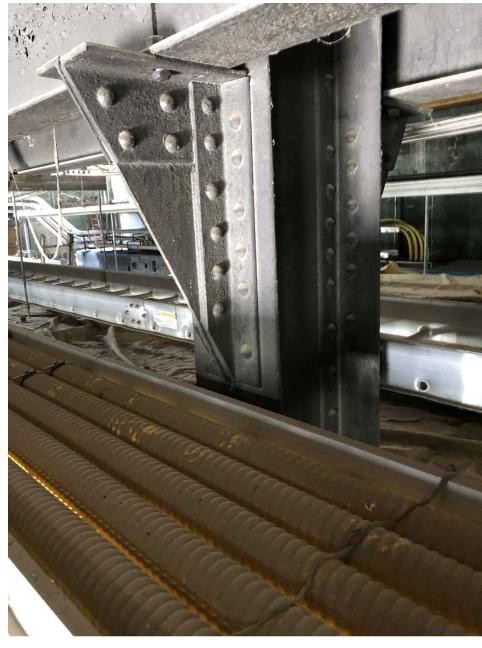


SAMPLE OF ITEM: (L) BRICK PILASTER SUPPORT FAILURE



SAMPLE OF ITEM: (B)

RAIL TO RUNWAY BEAM ANCHOR MISSING



SAMPLE OF ITEM: W

RUNWAY BEAM TO CORBEL BRACKET BOLT MISSING



TRC. n/a

AP. AZT



THESE PLANS ARE ORIGINALLY PRINTED ON 24"x36" PAPER.

SUPPORT REPAIR/REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D

SEWERAGE AND WATER BOARD OF NEW ORLEANS

**SWBNO CONTRACT No. 5255** 

C-002

DWG. No. **12169-W-8** SCALE: AS NOTED DATE: 04/06/2024 **SHEET NO.** 04 OF 07

### CONSTRUCTION SEQUENCE

- PRE-CONSTRUCTION ITEMS:
- 1. NO DUST POLLUTION IS ALLOWED INSIDE THE BUILDING. THE CONTRACTOR IS TO SUBMIT A WRITTEN DUST CONTROL PLAN FOR THE OWNER TO REVIEW AND APPROVE PRIOR TO START
- 2. THIS PROJECT INVOLVES WORKING ABOVE SENSITIVE EQUIPMENT. THE CONTRACTOR MUST INSTALL A DEBRIS FALLING CONTROL SYSTEM PRIOR TO START OF ANY WORK.
- 3. AS PART OF A PREVIOUS BUILDING REINFORCEMENT WORK, VERTICAL STEEL RODS WERE INSTALLED INSIDE OF THE BRICK WALLS. THESE RODS ARE ENCASED WITH CEMENTITIOUS GROUT. DURING THE DRILLING FOR NEW ANCHORS INTO THE BRICK WALLS, THE CONTRACTOR MUST TAKE SPECIAL PRECAUTION NOT TO DAMAGE THE WALL REINFORCEMENT VERTICAL RODS. WHEN DRILLING. THE INSTALLER MUST PAY ATTENTION TO ANY CHANGE OF HARDNESS IN THE MATERIAL BEING DRILLED. IF HARDER MATERIAL IS ENCOUNTERED, THAT IS AN INDICATION THAT A GROUTED VERTICAL ROD MAY BE AT THAT LOCATION. IN THE EVENT VERTICAL RODS ARE ENCOUNTERED, THE INSTALLER SHOULD TERMINATE DRILLING AND INSTALL A NEW HOLE INTO STEEL BRACKET AT THE SPECIFIED ALTERNATE LOCATION. THE GALVANIZED COATING MUST BE REPAIRED AT LOCATION OF THE NEW HOLE. THE TERMINATED HOLE MUST BE FILLED WITH GROUT. IF, IN AN UNLIKELY EVENT, A VERTICAL ROD IS ALSO ENCOUNTERED AT THE ALTERNATE ANCHOR HOLE, THE CONTRACTOR IS TO INFORM THE PROJECT ENGINEER AND REQUEST NEW ALTERNATE ANCHOR LOCATION.
- THE ABANDONED HOLES IN BRICK MUST BE FILED WITH INJECTION EPOXY GROUT. GALVANIZED COATING MUST BE REPAIRED AT NEW ALTERNATE HOLES INTO STEEL BRACKETS
- PER ASTM A780 USING SPRAYED ZINC METHOD. 4. THE DIMENSIONS SHOWN ON THE DETAILS FOR THE STEEL REINFORCEMENT BRACKETS ARE GENERAL DIMENSIONS AND MUST NOT BE USED FOR FABRICATION. THE CONTRACTOR MUST FIELD MEASURE EACH PILASTER PRIOR TO FABRICATING THE STEEL COMPONENTS. THE INSIDE PIECE OF THE STEEL REINFORCEMENT BRACKETS MUST HAVE A MINIMUM 34" GAP FROM THE FACE OF THE BRICK TO ALLOW FOR GROUTING. THE OUTSIDE PIECE OF THE STEEL REINFORCEMENT BRACKETS MUST BE A TIGHT FIT AROUND THE BRICK.

### PILASTER REINFORCEMENT:

- THE CONSTRUCTION PROCESS OF PILASTER REINFORCEMENT MUST FOLLOW THE ORDER OF THE CONSTRUCTION SEQUENCE LISTED BELOW. NO WORK SHALL BE DONE OUT OF ORDER UNLESS PRIOR WRITTEN APPROVAL FROM THE PROJECT ENGINEER OR THE OWNER IS OBTAINED. 1. CONTRACTOR TO FIELD VERIFY ALL MEASUREMENTS SHOWN ON THE DETAILS PRIOR TO
- FABRICATING THE PERMANENT STEEL REINFORCEMENT BRACKETS. 3. IMPLEMENT DUST AND DEBRIS CONTROL PLANS. THE IMPLEMENTED DUST AND DEBRIS
- CONTROL PLANS MUST BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO START OF ANY WORK.
- 4. SHOP FABRICATE THE PERMANENT STEEL REINFORCEMENT BRACKETS. HOT DIP GALVANIZE ALL FABRICATED STEEL COMPONENTS. 5. AT LOCATIONS OF PILASTER REINFORCEMENT ATOP PILASTERS; REMOVE ANY LOOSE PIECES OF
- BRICK AND BRICK MORTAR. REMOVE ANY CRACKED PIECES OF BRICK AND MORTAR EVEN IF THEY ARE NOT LOOSE.
- 5.1. IF MANY OF THE BRICK PIECES NEED TO BE REMOVED, THE CONTRACTOR MUST INSTALL SHORING TO SUPPORT THE WEIGHT OF THE RUNWAY BEAMS AND RAIL AT THAT PILASTER LOCATION
- 6. REMOVE PAINT FROM THE SURFACE OF THE BRICK PILASTER THAT WILL BE COVERED BY THE
- STEEL FORM. PAINT MUST BE FULLY REMOVED EXPOSING RED CLAY OF BRICKS. 7. REMOVE ALL THE DUST AND DEBRIS BY MEANS OF INDUSTRIAL HIGH SUCTION VACUUM. ALL
- LOOSE DUST AND DEBRIS MUST BE REMOVED FROM CRACKS, CAVITIES, AND SURFACES. 8. PLACE BOTH INTERIOR AND EXTERIOR PIECES OF THE STEEL REINFORCEMENT BRACKETS IN POSITION AND DRILL THE ANCHOR HOLES THROUGH THE BRICK WALL. ENSURE THE HOLES IN THE WALL LINE UP WITH THE STEEL BRACKETS ON BOTH SIDES.
- 9. TAKE DOWN THE INTERIOR PIECE OF THE STEEL BRACKET AND REMOVE DRILL DUST WITH
- 10. COORDINATE WITH THE OWNER TO INSPECT THE PREPARED AREA PRIOR TO PERMANENTLY INSTALLING THE REINFORCEMENT STEEL BRACKETS. DO NOT INSTALL THE BRACKETS WITHOUT WRITTEN SIGN OFF FROM THE OWNER FOR EACH PILASTER REINFORCEMENT.
- 11. PLACE THE INTERIOR PIECE OF THE STEEL REINFORCEMENT BRACKET IN PLACE. MAKE SURE THERE IS A 34" MINIMUM GAP BETWEEN THE BRACKET AND THE PILASTER. SECURE THE INTERIOR PIECE TO THE EXTERIOR PIECE WITH THE SPECIFIED THROUGH THREADED RODS FASTENERS. HAND TIGHTEN THE FASTENERS. [NOTE: THESE FASTENERS TO BE FULLY TIGHTENED AFTER THE GROUT IS CURED]
- 12. PLACE THE SPECIFIED BACKING ROD AT THE BOTTOM OF THE STEEL BRACKET ALONG THE
- PILASTER AND SEAL WITH CAULKING. 13. INSTALL TEMPORARY WOOD FORM ALONG THE TOP EDGE OF THE STEEL BRACKET TO PREVENT
- 14. MIX THE SPECIFIED GROUT PER THE MANUFACTURER REQUIREMENT AND POUR IN THE FORM PER THE MANUFACTURER INSTRUCTIONS. USE MECHANICAL VIBRATOR DURING GROUTING. PLACE THE HEAD OF VIBRATOR AGAINST THE STEEL FORM ON ALL SIDES TO ENSURE GROUT CONSOLIDATION AND REMOVAL OF ANY TRAPPED AIR.
- 15. ALLOW FOR THE GROUT TO GAIN A MINIMUM 75% OF ITS STRENGTH, PER THE MANUFACTURER CURING CHART. BEFORE PERFORMING OTHER WORK AT THAT PILASTER LOCATION.
- 16. AFTER GROUT HAS GAINED ADEQUATE STRENGTH, USING THE EXISTING HOLES IN THE BOTTOM FLANGE OF THE RUNWAY BEAMS AT THEIR ENDS, DRILL THROUGH THE NEWLY GROUTED BRICK ASSEMBLY TO THE MINIMUM SPECIFIED EMBEDMENT. THE EXISTING HOLES IN THE RUNWAY BEAMS' FLANGES MIGHT NEED TO BE ENLARGED TO THE SPECIFIED HOLE DIAMETER. EPOXY VERTICAL ANCHORS PER MANUFACTURER INSTALLATION INSTRUCTION. [NOTE: THE EPOXY
- ANCHOR SYSTEM REQUIRES INSERTION OF PLASTIC SCREEN INTO THE ANCHOR HOLE] 17. DRILL NEW HOLES INTO THE RUNWAY BEAMS' WEBS NEAR THE EXISTING LATERAL ANCHORS. USING THESE NEW DRILLED HOLES AS A GUIDE, DRILL THROUGH THE BRICK WALL. INSTALL THE SPECIFIED LATERAL ANCHORS WITH A PLATE WASHER OVER THE OUTSIDE FACE OF THE
- BRICK WALL. SNUG-TIGHT THE FASTENER ASSEMBLY. 17.1. NOTE: THE INTENT IS TO UTILIZE THE COLLAR ON THE EXISTING LATERAL ANCHORS AND THE NEW ANCHORS TO SECURE THE TOP OF THE RUNWAY BEAM IN PLACE. IF THE EXISTING COLLAR IS MISSING OR IF THERE IS A GAP BETWEEN THE EXISTING COLLAR AND THE WALL OR BETWEEN THE COLLAR AND THE RUNWAY BEAM WEB, NEW TIGHT FITTING COLLAR MUST BE INSTALLED. NEW COLLAR MUST HAVE A 3" OUTER DIAMETER BY 3/6" THICK PLATE WASHER ON THE BRICK SIDE.
- 18. PAINT THE FINISHED ASSEMBLY ON THE OUTSIDE OF BUILDING WITH OIL-BASE EXTERIOR PAINT MATCHING EXISTING EXTERIOR COLOR OF THE WALL.

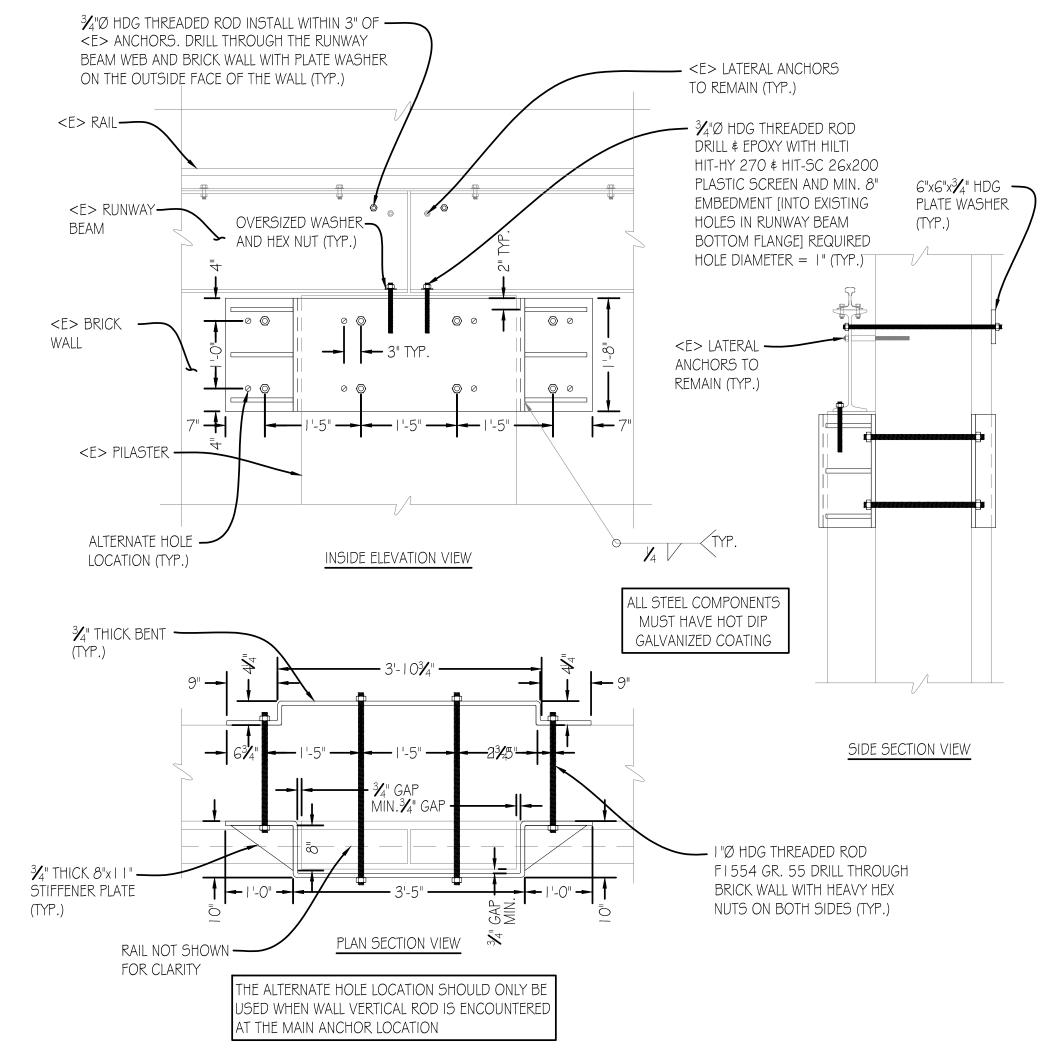
### CRANE RAIL ANCHORS REPLACEMENT:

- 1. AT NORTH AND SOUTH RAILS, REMOVE AND REPLACE ALL THE RAIL ANCHORS WITH THE NEW
- SPECIFIED ANCHOR SYSTEM. 1.1. REMOVE ONE RAIL ANCHOR AT A TIME. INSTALL NEW ANCHOR ASSEMBLY AND SNUG-TIGHT THE ASSEMBLY. THIS IS TO PREVENT RAIL MOVEMENT.

### OTHER ITEMS:

GROUT OVERFLOW.

- . REPLACE ALL THE RAIL SPLICE BOLTS WITH NEW SPECIFIED BOLTS. INSTALL MISSING SPLICE PLATES. SPLICE PLATES ARE REQUIRED ON BOTH SIDES.
- 2. REPLACE MISSING BOLTS FOR THE RUNWAY BEAMS TO SUPPORT THE CORBELS ALONG
- GRIDLINE "B".
- 3. PERFORM OTHER CONSTRUCTION ACTIVITIES LISTED ON THE "REPAIR AND REINFORCEMENT TABLE".



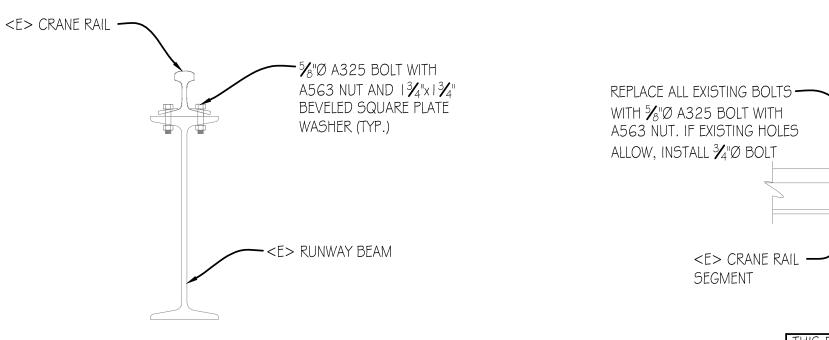
B C D E F G H J K

─<E> RUNWAY BEAM FILL CAVITY WITH THE SPECIFIED — HIGH STRENGTH GROUT TEMPORARY WOOD FORM -<E> BRICK WALL AROUND THE TOP STEEL FORM --<E> BRICK PILASTER PER DETAIL INSERT I" DIAMETER BACKER ROD IN THE GAP AND SEAL WITH CAULKING

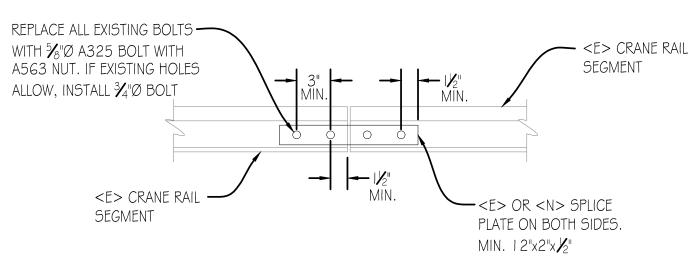
> TYP. GROUT SECTION VIEW

FOR PILASTERS AT GRIDPOINTS A2, A3, A4, A5, A10, A11, A12, \$ A13

PILASTER REINFORCEMENT DETAIL- I  $\sqrt{003} / 3/4'' = 1'-0''$ 



B TYP. RAIL TO RUNWAY BEAM ATTACHMENT 003 / 1 1/2" = 1'-0"



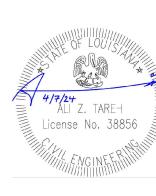
HIS DETAIL APPLIES TO ALL RAIL SPLICES O THE NORTH AND SOUTH RUNWAY RAILS

TYP. RAIL SPLICE DETAIL 003 / 1 1/2" = 1'-0"



THESE PLANS ARE ORIGINALLY PRINTED ON 24"x36" PAPER.

—1 INCH—



SWBNO CONTRACT No. 5255 SUPPORT REPAIR/REINFORCEMENT OF SOUTH CRANE RAILS AT STATION D C-003TRC. n/a

ARCH AND PILLARS ENGINEERING & CONSTRUCTION

2424 EDENBORN AVENUE SUITE 560

METAIRIE, LA 70001 PHONE: (504) 298-1135 EMAIL: CONTACT@APEC-US.COM

DESCRIPTION

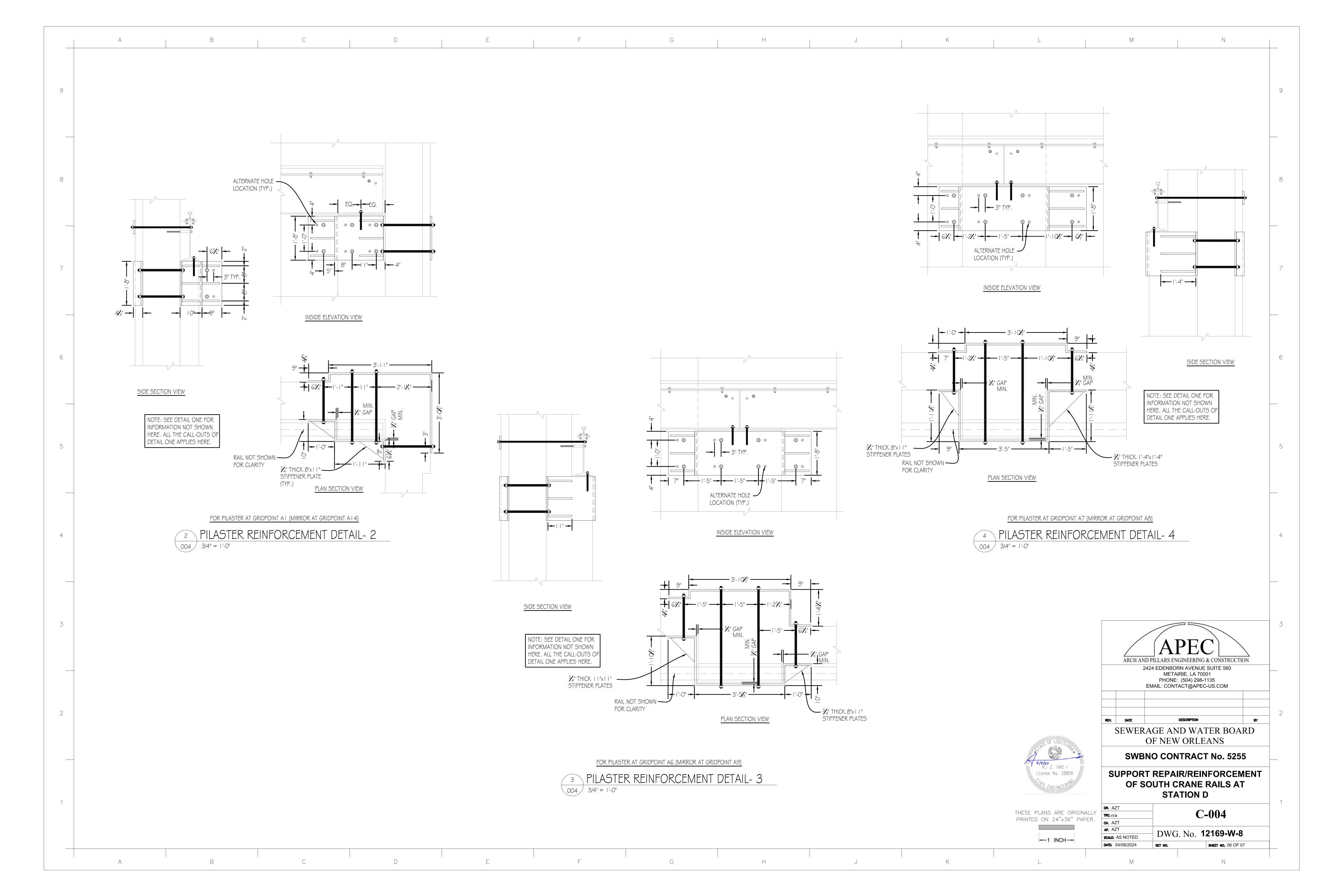
SEWERAGE AND WATER BOARD

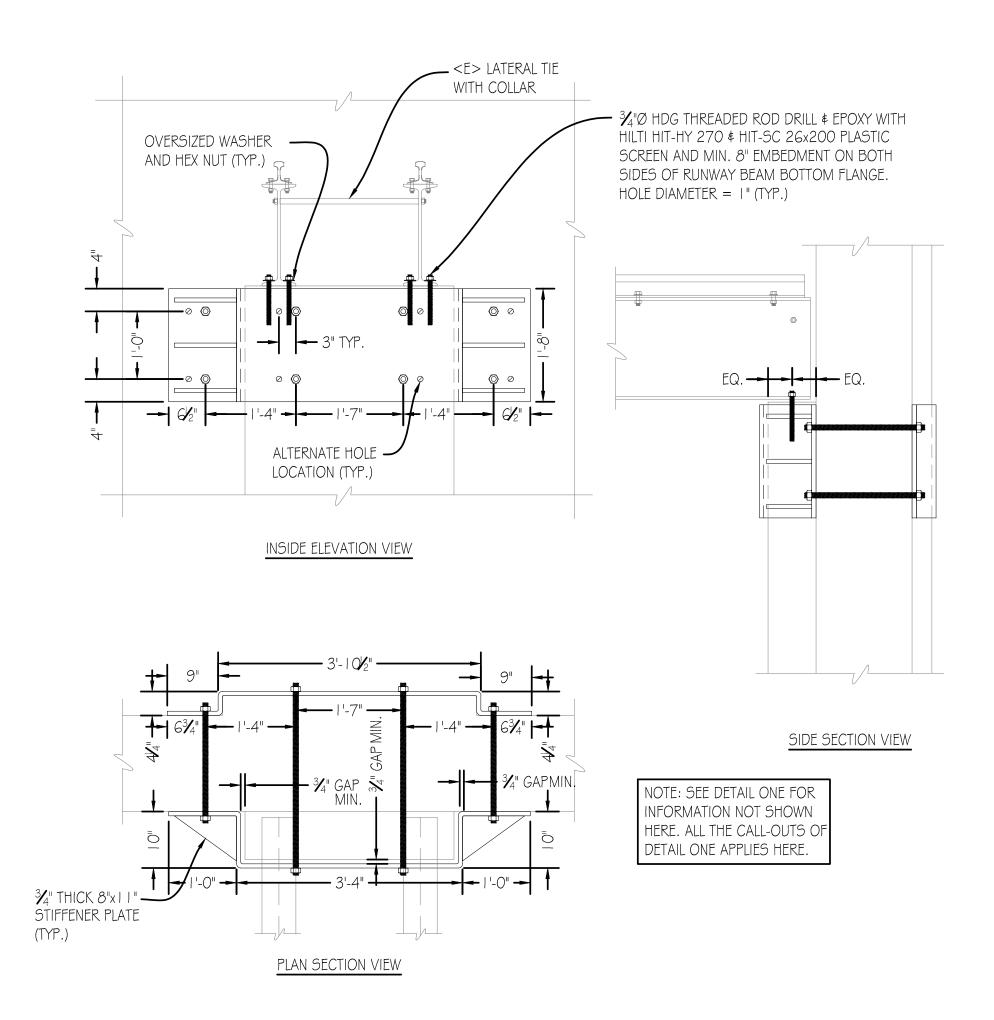
OF NEW ORLEANS

CK. AZT

AP. AZT DWG. No. **12169-W-8** SCALE: AS NOTED SET NO. **SHEET NO.** 05 OF 07

DATE: 04/06/2024

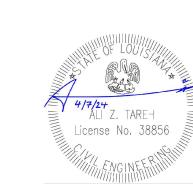




FOR PILASTER AT GRIDPOINT BC | AND BC | 4

5 PILASTER REINFORCEMENT DETAIL- 5

005 3/4" = 1'-0"



THESE PLANS ARE ORIGINALLY
PRINTED ON 24"x36" PAPER.

CK. AZT

OF SOUTH CRANE RAILS AT STATION D C-005AP. AZT DWG. No. **12169-W-8** 

2424 EDENBORN AVENUE SUITE 560 METAIRIE, LA 70001 PHONE: (504) 298-1135 EMAIL: CONTACT@APEC-US.COM

SEWERAGE AND WATER BOARD OF NEW ORLEANS

**SHEET NO.** 07 OF 07

**SWBNO CONTRACT No. 5255** 

SUPPORT REPAIR/REINFORCEMENT

SCALE: AS NOTED

DATE: 04/06/2024