



Date: August 21, 2017

To: **All Bidders**

Subject: **Addendum No. 2 to the Contract Documents for
MILL CREEK / PEAKS BRANCH / STATE THOMAS DRAINAGE RELIEF TUNNEL PROJECT
Project Numbers PB06T523, PB06T524, PB06T525, PB06T536, TW12S769
DWU Contract Numbers 15-387F / 15-388F**

The following constitutes ADDENDUM No. 2 to the Special Provisions and Proposal, and/or Contract Documents for the referenced project.

1. Special Provision A-40: Delete Special Provision A-40 in its entirety and replace with the attached Special Provision A-40 (Addendum No. 2 p-7). The revisions to A-40 update the requirements for the office facilities for the CONTRACTOR and OWNER.
2. Special Provision A-57: Delete Special Provision A-57 in its entirety and replace with the attached Special Provision A-57 (Addendum No. 2 p-8 through p-12). The revisions to A-57 are limited to extending insurance coverage to Owner's agents. For the purpose of Special Provision A-57, "agents" includes the Design Engineer, Construction Manager, Materials Testing Consultant, and any other consultants retained by the City of Dallas; and any of their subconsultants performing work on this project.
3. Special Provision B-23: Change the title of Project Item No. P5 to "DEWATERING STATION." This change removes the word "DELETE" from the title.
4. PROPOSAL FORMS: Change the date on all the Bid Schedules 1 through 9, and on the Bid Summary, from "1-Sep-2017" to "8-Sep-2017" to reflect the revised date bids are due (this revision is already included in the Excel™ workbook).
5. PROPOSAL FORMS: Delete SCHEDULE 6 DEDUCTIVE BID ALTERNATIVE 1: DELETE STATE THOMAS EXTENSION and replace with the attached SCHEDULE 6 DEDUCTIVE BID ALTERNATIVE 1: DELETE STATE THOMAS EXTENSION. Schedule 6 included with Addendum No. 1 omitted the Dollars and Cents fields and included "Error" for the Item Amount and the Schedule Total. The attached schedule corrects these issues. (Addendum No. 2 p-13). A revised Excel™ workbook with the Bid Form is included with this Addendum No. 2. (The only changes to the Excel™ workbook are a revision to the Schedule 6 footer to show Addendum No. 2 and the revised Bid Date of 8-Sep-2017.)

6. Delete Section 01500, TEMPORARY FACILITIES AND CONTROLS, in its entirety and replace with the attached Section 01500 (Addendum No. 2 p-14 through p-20). The revisions to Section 01500 change field office location requirements, clarify the restroom requirements, change kitchen/breakroom requirements, changes the number of workspaces and data ports in the bull-pen area, clarifies flooring requirements, adds an ADA-compliant ramp and rail to the front entrance, and changes Subsection 2.2C furnishing requirements. The OWNER's Field Office shall comply with ADA requirements and the Texas Department of Licensing and Regulation Texas Accessibility Standards.
7. SECTION 15059, SUMP PUMPS AND ACCESSORIES: Delete sentence 1.4.D.3 and replace with the following:
 - “3. Or equal, approved in writing by Engineer and OWNER.”This removes the requirement for approval of an “or equal” sump pump prior to bid opening. Substitutions will considered after award of the contract; however, the allowance, acceptance, or approval of any substitution is at the sole discretion of the OWNER.
8. SECTION 15059, SUMP PUMPS AND ACCESSORIES: Delete paragraph 2.1.C. and replace with the following:
 - “C. Pump shall include a flush valve connected to the pump’s volute, or a separate submersible mixing system shall be provided. The flush valve or mixing system shall be capable of re-suspending settled solids in the sump prior to the pump operating.”
9. SECTION 15059, SUMP PUMPS AND ACCESSORIES: Delete paragraph 2.4.A. and replace with the following:
 - “A. The impeller shall be ASTM A-48 Class 35B grey cast iron or ASTM A-532 (Alloy III A - 25% chrome-cast iron), dynamically balanced, semi-open, multi-vane, back-swept, screw-shaped, non-clog design.”
10. SECTION 15059, SUMP PUMPS AND ACCESSORIES: Delete the last sentence of paragraph 2.5.A. and replace with the following:
 - “Provide calculations to document that the shaft thickness design meets the deflection requirements.”

11. SECTION 15060, DEWATERING PUMPS AND ACCESSORIES: Add the following before the last sentence of paragraph 2.16.N.1:

“All three dewatering pumps may be tested with one of the three project VFDs.”

12. SECTION 15060, DEWATERING PUMPS AND ACCESSORIES: Delete paragraph 2.16.N.2. and replace with the following:

“2. All tests shall be in accordance with ANSI/HI 11.6. Pump performance testing in accordance with ANSI/HI 11.6.5 shall be accomplished with the pumps submerged. Hydrostatic tests, NPSHR tests, submersible motor integrity tests, and vibration tests shall be conducted with a test setup configuration compliant with the guidelines established in the respective HI standard for the given test. Required Pump Performance test acceptance level shall be ANSI/HI Acceptance Level 2B.”

13. A Plan Holder List as of 8/18/2017 may be downloaded at the following webpage:
<http://dallascityhall.com/departments/trinitywatershedmanagement/Pages/default.aspx>.

14. NOTICE TO BIDDERS: Add the following as the last item in the NOTICE TO BIDDERS:

“Z. ACKNOWLEDGEMENT OF ADDENDA

Bidders will receive with each addendum the requirement to acknowledge the addendum by adding a sentence to the inside of the front cover sheet of the Special Provisions. To adhere to this requirement:

1. The bidder shall copy the first page of Volume I of III - VOLUME I OF III, BID REQUIREMENTS, SPECIAL PROVISIONS, PROPOSAL FORMS, and DIVISION 1 GENERAL REQUIREMENTS, or print said page from the file MCPBSTDRT-VOLUME-I (2017-07-04).pdf.
2. **For each addendum**, the bidder shall print the page with the addendum acknowledgement, fill in the legal name of the organization, and sign in the blank provided.
3. The bidder shall attach each signed acknowledgment to the aforementioned cover sheet and submit with their bid.

Bidders shall also write in the number of each acknowledged addendum on the BID SUMMARY sheet (Volume I Page S10-1).”

A copy of the Volume I cover sheet is attached to this Addendum No. 2 for the convenience of the bidders. (Addendum No. 2 p-21)

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15. Attached are responses to questions received via email (Addendum No. 2 p-5 and p-6).

All bidders will be required to add the following sentence to the inside of the front cover sheet of the Special Provisions with signatures:

“ _____ acknowledges receipt

(Give Legal Name of Organization)

of Addendum No. 2, and has taken due cognizance of said addendum in all its terms in the preparation and submission of this bid.

“

Contractor's Signature

If the Contractor has additional questions concerning the specifications or Addendum No. 2, please contact Jose L. Lopez - PE, at 214-671-9367.



J. Milton Brook, P.E.
Assistant Director (Interim)
Trinity Watershed Management

Attachments

ADDENDUM NO. 2 – QUESTIONS AND ANSWERS

1. QUESTION: Section 15059 1.4.D.3. - Sump Pump specs says "Or equal, approved in writing by Engineer and Owner prior to bid opening date." Is Barnes an acceptable manufacturer for the small sump pump in Shaft P?
ANSWER: Subject to compliance with the Contract Documents, Barnes is an acceptable manufacturer for the small sump pump in Shaft P. A revision to Section 15059 is included with this Addendum #2 to allow substitution consideration after award of the contract. The allowance, acceptance, or approval of any substitution is at the sole discretion of the OWNER.
2. QUESTION: Section 15059, paragraph 2.1.C requires a mix flush valve on the sump pump. This is proprietary to just one of the named pump manufacturers. Can the mix flush valve requirement be removed?
ANSWER: The sump pump shall be equipped with a flush valve, or a separate submersible mixing system shall be provided. A revision to Section 15059 is included with this Addendum #2 to allow alternatives to the specified mix flush valve.
3. QUESTION: Section 15059, paragraph 2.4.A says the impeller should be 25% chrome. This is something proprietary to just one of the named pump manufacturers. If the large dewatering pumps' impellers are specified with standard cast iron, will a standard cast iron impeller be allowed for the sump pump?
ANSWER: ASTM A48 Class 35B grey cast iron is acceptable for the sump pump impeller. A revision to Section 15059 is included with this Addendum #2 to allow ASTM A48 Class 35B grey cast iron for the sump-pump impeller.
4. QUESTION: Per section A-12 Business Inclusion and Development, Compliance Procedures Paragraph A.-Description of BID Documentation Forms, subparagraph 1. BID Affidavit (Page A-20), due to the different wording, is this the same form as Form 1 - Business Inclusion and Development Affidavit?
ANSWER: Yes. "BID" is the acronym for Business Inclusion and Development.
5. QUESTION: If Schedule 7 Deductive Bid Alternative No. 2: Delete Site C – PB at Hill Ave. is selected, will "Site C - Schedule 1 Base Bid" items be included in this deductive bid alternate? Please address whether Junction Structure C1 and associated storm drainage improvements as well as roadway and landscape improvements will still be required at Site C.
ANSWER: Schedule 7 Deductive Bid Alternative No. 2 removes only the Project Items listed in Bid Item No. 3, Delete Intake C Drop Shaft, Tunnel Lateral C – Excavation, Support, and Concrete Lining, and Intake Structure C (reference Special Provision B-22, Bid Item No. 3 for additional information). The **pay** quantities of unit price bid items associated with Site C will be reduced if Deductive Bid Alternative No. 2 is selected as these items will not be constructed; however, the **bid** quantities of these unit price bid items will not be adjusted in the Contract if Deductive Bid Alternative No. 2 is selected (reference Note 18 on Sheet CN-101 for additional information regarding unit price items).

6. QUESTION: If Schedule 8 Deductive Bid Alternative No. 3: Delete Dewatering Station Shaft is selected, will Lateral P be included in this alternate? Will SD Line A2 and associated items be included in this alternate?

ANSWER: Schedule 8 Deductive Bid Alternative No. 3 removes only the Project Item listed in Bid Item No. 4, Delete Dewatering Station Shaft P (reference Special Provision B-22, Bid Item No. 4 for additional information). Lateral P will remain in the contract if Deductive Bid Alternative No. 3 is selected. The **pay** quantities of unit price bid items associated with the Dewatering Station will be reduced if Deductive Bid Alternative No. 3 is selected as these items will not be constructed; however, the **bid** quantities of these unit price bid items will not be adjusted in the Contract if Deductive Bid Alternative No. 3 is selected (reference Note 18 on Sheet CN-101 for additional information regarding unit price items).

7. QUESTION: If Schedule 9 Deductive Bid Alternative No. 4: Delete Dewatering Station is selected, will SD Line A2 and associated items be included in this alternate?

ANSWER: Schedule 9 Deductive Bid Alternative No. 4 removes only the Project Item listed in Bid Item No. 5, Delete Dewatering Station (reference Special Provision B-22, Bid Item No. 5 for additional information). The **pay** quantities of unit price bid items associated with the Dewatering Station will be reduced if Deductive Bid Alternative No. 4 is selected as these items will not be constructed; however, the **bid** quantities of these unit price bid items will not be adjusted in the Contract if Deductive Bid Alternative No. 4 is selected (reference Note 18 on Sheet CN-101 for additional information regarding unit price items).

A-40 CONTRACTOR AND OWNER FACILITIES

The CONTRACTOR shall establish office facilities for the CONTRACTOR and OWNER within Site O. CONTRACTOR's and OWNER's office facilities shall be located at Site O, on the north side of Barber Avenue. CONTRACTOR's field office shall be located within 50 feet of OWNER's field office, and a covered walkway shall connect entrances between the CONTRACTOR's and OWNER's field offices. Reference Technical Specification Section 01500, Temporary Facilities and Controls, for further requirements.

A-57 INSURANCE REQUIREMENTS

The following "Insurance Requirements" modify insurance requirements found elsewhere in the documents, and in case of conflict, the most stringent requirements apply.

SECTION A. Prior to the approval of this contract by the CITY, CONTRACTOR shall procure, pay for and maintain the following insurance written by companies approved by the State of Texas and acceptable to CITY. The insurance shall be evidenced by delivery to the CITY, at the address shown in REQUIRED PROVISIONS b.(i), certificates of insurance executed by the insurer or its authorized agent stating coverages, limits, expiration dates and compliance with all applicable required provisions. Upon request, the CITY shall be entitled to receive without expense, copies of the policies and all endorsements. CITY HAS NO DUTY TO PAY OR PERFORM UNDER THIS CONTRACT OR AGREEMENT UNTIL SUCH CERTIFICATE HAS BEEN DELIVERED TO THE CITY and no officer or employee shall have authority to waive this requirement.

SECTION B. The CITY reserves the right to review the insurance requirements of this section during the effective period of the contract and to modify insurance coverages and their limits when deemed necessary and prudent by City's Office of Risk Management based upon economic conditions, recommendation of professional insurance advisors, changes in statutory law, court decisions or other relevant factors. The CONTRACTOR agrees to make any reasonable request for deletion, revision or modification of particular policy terms, conditions, limitations, or exclusions (except where policy provisions are established by law or regulation binding upon either party to the contract). Upon request by CITY, CONTRACTOR shall exercise reasonable efforts to accomplish such changes in policy coverages and shall pay the cost thereof.

INSURANCE COVERAGE REQUIRED

SECTION C. Subject to CONTRACTOR'S right to maintain reasonable deductibles, CONTRACTOR shall obtain and maintain in full force and effect for the duration of this contract and any extension hereof, at CONTRACTOR'S sole expense, insurance coverage in the following type(s) and amounts:

1. Workers' Compensation within the regulations of the Texas Workers' Compensation Act. The minimum policy limits for Employers Liability are:
Bodily Injury by Accident: \$1,000,000 Each Accident
Bodily Injury by Disease: \$1,000,000 Policy Limit
Bodily Injury by Disease: \$1,000,000 Each Employee
2. Business Automobile Liability Insurance covering owned, hired, and non-owned vehicles, with a minimum combined bodily injury (including death) and property damage limit of \$1,000,000 per occurrence. Including MSC90 endorsement.

A-57 INSURANCE REQUIREMENTS (continued)

3. Commercial General Liability Insurance including, but not limited to, Premises/Operations, Personal & Advertising Injury, Products/Completed Operations, Independent Contractors and Contractual Liability with minimum combined bodily injury (including death) and property damage limits of \$1,000,000 per occurrence, \$2,000,000 general aggregate.

The policy shall include coverage extended to apply to products/completed operations and XCU hazards. The Completed Operations coverage must be maintained for a minimum of one (1) year after final completion and acceptance of the Work, with evidence of same filed with Owner. Owner, and its officers, employees, and agents, shall be named as additional insured using the broadest form of endorsement available, with such status extended to include the extension of the completed operations coverage as described above. The policy shall include endorsement CG2503 Amendment of limits (designated project or premises) in order to extend the policy's limits specifically to the project in question.

4. Umbrella or Excess Liability Insurance providing coverage following form of the primary liability coverages described in 1, 2, and 3 above, with minimum combined bodily injury (including death) and property damage limit of \$25,000,000 per occurrence and \$25,000,000 annual aggregate.
5. All Risk Builders Risk Policy including, but not limited to, Fire, Extended Coverage, Vandalism and Malicious Mischief, Flood (if located in a flood zone) and Theft in an amount equal to one hundred percent (100%) of the contract cost of the project in question. The policy shall include materials delivered and labor performed for the project in question. The policy shall be written jointly in the names of the Owner, Owner's agents, Contractor teams, subcontractors, and sub-subcontractors as their interests may appear. The policy shall have endorsements as follows:
 - a. This insurance shall be specific as to coverage and not contributing insurance with any permanent insurance maintained on the property.

All Risk Builders Risk Policy to include Flood, Earth Movement, Earthquake, Seismic Event for the Project including:

- 1) All limits shall be for each claim or occurrence. Annual aggregates for Flood, and Earthquake are acceptable. The policy shall not include any condition of reinstatement of the limit(s) other than the stated aggregates
- 2) London Engineering Group (LEG) 2 type or equivalent coverage for design error, faulty workmanship and/or faulty materials
- 3) Coverage against damage or loss caused by any type of earth movement, subsidence, sinkhole, flood, fire, theft, collapse,

A-57 INSURANCE REQUIREMENTS (continued)

- explosion, vandalism and malicious mischief, machinery accidents and operational testing
- 4) Coverage for removal of debris (with a sublimit not less than \$25,000,000 for debris removal), and insuring the buildings, structures, machinery, equipment, materials, facilities, fixtures and all other properties constituting a part of the Project
 - 5) Transit coverage with sub-limits sufficient to insure the full replacement value of any key equipment item
 - 6) Coverage with a limit of insurance for tunneling works with a minimum limit of \$50,000,000
 - 7) The policy shall include coverage for the Tunnel Boring Machine (if used in the execution of this project). The limit of insurance shall reflect the purchase price of the Tunnel Boring Machine.

Coverage shall be for the replacement value thereof for “all risks” of direct physical loss or damage, including earth movement, earthquake, subsidence, sinkhole and flood coverage, with a minimum limit of liability equal to one hundred percent (100%) of the contract cost of the project, plus “soft costs expense cover” (including interest or other financing costs incurred by Owner, attorneys’ fees and fees and other costs associated with such damage or loss and with any Governmental Approvals). Coverage shall include a minimum sublimit on such soft cost/delay expenses of \$25,000,000 with a maximum delay deductible of 30 days. The policy shall be written jointly in the names of the Owner, Owner’s agents, Contractor teams, subcontractors, and sub-subcontractors as their interest may appear. The policy shall have endorsements as follows:

Deductibles or self-insured retentions for all other perils and shall not exceed

- i. \$250,000 for all losses unless otherwise stated
- ii. \$1,000,000 Tunneling Works
- iii. Flood coverage deductibles shall not exceed 5% of the value at risk at the time of loss subject to a minimum of \$ 250,000 whichever is greater
- iv. Named Windstorm to including ensuing damage as a result of storm surge 5% of the value at risk at the time of loss subject to a minimum of \$250,000 whichever is greater
- v. Earth Movement or Earthquake 5% of the value at risk at the time of loss subject to a minimum of \$250,000 whichever is greater
- vi. Tunnel Boring Machine deductible not to exceed \$250,000

The Builders Risk coverage shall be written without risk of liability of Indemnified Parties for payment and without deduction for depreciation. There shall be no coinsurance penalty provision in the policy.

**A-57 INSURANCE REQUIREMENTS
(continued)**

6. Environmental Impairment/Pollution Insurance to include coverage for the handling, receiving, dispensing, removal, storage, testing, transportation, disposal, discharge, dispersal release or escape of any hazardous material into or upon land, or any structure on land, the atmosphere or any watercourse or body of water, including ground water, with a minimum combined bodily injury including death) and property damage limit of \$25,000,000 per occurrence.

CONTRACTOR shall, at CONTRACTOR'S own expense, comply with any present or hereafter enacted environmental laws, rules and regulations, including those of the United States Environmental Protection Agency (EPA), the United States Occupational Safety and Health Administration (OSHA), the Texas Commission on Environmental Quality (TCEQ), and any other local, state or Federal authority that regulates environmental matters, including environmental cleanup responsibility laws.

NOTE: If the insurance described in #3 or #4 above is written on a claims-made form, coverage shall be continuous (by renewal or extended reporting period) for not less than twenty-four (24) months following completion of the contract and acceptance by the City. Coverage, including any renewals, shall contain the same retroactive date as the original policy applicable to this contract.

REQUIRED PROVISIONS

CONTRACTOR agrees that with respect to the above required insurance, all insurance contracts and certificate(s) of insurance will contain and state, in writing, the following required provisions:

- a. Name the City of Dallas and its officers, employees, elected representatives, and agents as additional insureds to all applicable coverages.
- b. State that coverage shall not be canceled except after thirty (30) days written notice to:
 - (i) Trinity Watershed Management Department, Attention: Jose L Lopez, P.E., Project Manager, 1500 Marilla, 6B-South, Dallas, Texas 75201 and
 - (ii) Director, Office of Risk Management, 1500 Marilla, 6A-South, Dallas, Texas 75201
- c. Waive subrogation against the City of Dallas, its officers, employees, and agents, for bodily injury (including death), property damage or any other loss.
- d. Provide that the CONTRACTOR'S insurance is primary insurance as respects the CITY, its officers, employees, elected representatives, and agents.

A-57 INSURANCE REQUIREMENTS (continued)

- e. Ensure that all certificates of insurance identify the service or product being provided and name the City department shown in REQUIRED PROVISIONS b.(i) as the Certificate Holder.

SECTION D. (1) Without limiting any of the other obligations or liabilities of the CONTRACTOR, the CONTRACTOR shall require each Subcontractor performing work under the contract, at the Subcontractor's own expense, to maintain during the term of the contract, levels of insurance that are necessary and appropriate for the services being performed, comply with all applicable laws and are consistent with industry standards. The Subcontractor's liability insurance shall name the CONTRACTOR as an additional insured. (2) The CONTRACTOR shall obtain and monitor the certificates of insurance from each Subcontractor. The CONTRACTOR must retain the certificates of insurance for the duration of the contract and shall have the responsibility of enforcing insurance requirements among its subcontractors. The CITY shall be entitled, upon request and without expense, to receive copies of these certificates.

SECTION E. Approval, disapproval or failure to act by the CITY regarding any insurance supplied by the CONTRACTOR or its subcontractors shall not relieve the CONTRACTOR of full responsibility or liability for damages and accidents as set forth in the contract documents. Neither shall the bankruptcy, insolvency nor denial of liability by the insurance company exonerate the CONTRACTOR from liability.

INDEMNITY

The CONTRACTOR agrees to defend, indemnify and hold CITY, its officers, agents, employees, and agents harmless against any and all claims, lawsuits, judgements, costs and expenses for personal injury (including death), property damage or other harm for which recovery of damages is sought, suffered by any person or persons, that may arise out of or be occasioned by CONTRACTOR'S breach of any of the terms or provisions of this contract, or by any negligent or strictly liable act or omission of CONTRACTOR, its officers, agents, employees, or subcontractors, in the performance of this contract; except that the indemnity provided for in this paragraph shall not apply to any liability resulting from the sole negligence or fault of CITY, its officers, agents or employees and in the event of joint and concurrent negligence or fault of CONTRACTOR and CITY, responsibility and indemnity, if any, shall be apportioned comparatively in accordance with the laws of the State of Texas, without waiving any governmental immunity available to the CITY under Texas law and without waiving any defenses of the parties under Texas law. The provisions of this paragraph are solely for the benefit of the parties hereto and are not intended to create or grant any rights, contractual or otherwise, to any other person or entity.

STORM DRAINAGE IMPROVEMENTS - MILL CREEK/ PEAKS BRANCH/STATE THOMAS DRAINAGE RELIEF PROJECT

SCHEDULE 6 DEDUCTIVE BID ALTERNATIVE 1: DELETE STATE THOMAS EXTENSION

8-Sep-2017

Item No	Qty	Unit	Description	Unit Price	Amount
Beginning of SCHEDULE 6 DEDUCTIVE BID ALTERNATIVE 1: DELETE STATE THOMAS EXTENSION					
2	1	LS	For DELETE TUNNEL FROM STATION <u>218+90</u> TO STATION 271+85 AND ASSOCIATED ELEMENTS, complete in place		
			_____ Dollars and		
			_____ Cent(s) per Lump Sum		
<p style="text-align: right;">Subtotal for SCHEDULE 6 DEDUCTIVE BID ALTERNATIVE 1: DELETE STATE THOMAS EXTENSION: _____</p>					

Note: If Schedule 6 is selected, the Contract Amount for Bid Item No. 1 in Schedule 1 (Base Bid) shall be reduced by this Schedule 6 DEDUCT Amount.

SECTION 01500
TEMPORARY FACILITIES AND CONTROLS

1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes requirements for temporary utilities, support facilities, and security and protection of support facilities.
- B. Related Requirements:
 - 1. Section 01100 - Construction Schedule and Constraints
 - 2. Section 01300 - Submittal Procedures

1.3 USE CHARGES

- A. General: Installation of, maintenance of, use charges for, and removal of temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary services and facilities without cost, including, but not limited to OWNER's construction forces, Owner's Representative, testing agencies, and authorities having jurisdiction.
- B. Sewer Service: CONTRACTOR shall pay sewer-service use charges for sewer usage by all entities for construction operations.
- C. Water Service: CONTRACTOR shall pay potable water-service use charges for water used by all entities for construction operations.
- D. Electric Power Service: CONTRACTOR shall pay all electric-power-service use charges for electricity used by all entities for construction operations.
- E. Telephone and Internet Services: CONTRACTOR shall pay for all telephone and internet services used by all entities for construction operations.

1.4 SUBMITTALS

- A. Facilities Plan: Submit facilities plan for each work site. Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
- B. Submit OWNER's field office layout for approval.
- C. Erosion and Sedimentation Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.

1.5 CONSTRUCTION FACILITIES PLAN

- A. The area at the outfall construction shaft site will be the main staging area for CONTRACTOR's operations. CONTRACTOR's and OWNER's main offices shall be set up at the outfall shaft site. Any additional staging that the CONTRACTOR may require shall be identified in the Facilities Plan and provided by the CONTRACTOR at no additional cost to the OWNER. The Facilities Plan shall include a narrative of the mobilization, site preparation, and schedule for each site.
- B. CONTRACTOR's Plant: Submit a plan of the plant layout to Owner's Representative for approval within 21 days of the Notice to Proceed. CONTRACTOR's plant, for purposes of this Section, includes, but not limited to, his field offices, change houses, first aid station, storage facilities including flammable materials storage, the area for the muck storage, the water treatment facilities, substation, compressor house, machine shop, and major equipment such as hoisting equipment, compressor plant, conveyor facilities, TBM, etc. designed to support the tunneling effort. Sufficient construction plant shall be provided and maintained at all points where work is in progress to adequately meet demands of the Work and with ample margin for emergencies or overload.
- C. The plant shall be of sufficient capacity and reliability to permit a rate of progress which will ensure completion of the Work within the time stipulated in the Contract. Insufficient, inadequate, or improper plant or equipment shall be brought to acceptable condition or shall be removed from the site.
- D. Change Houses: CONTRACTOR shall provide a suitable change house at each working entrance to the tunnel. Each change house shall be equipped with a sufficient number of metal lockers, benches, mirrors, showers, lavatories, and sanitary conveniences to accommodate all persons employed at the work site. CONTRACTOR shall maintain the change houses, providing heat, light, toilet paper, towels, and janitor and watchman services. Change houses shall be similar to Williams model 24-8 SL, or equal.
- E. The CONTRACTOR shall be wholly responsible for the security of the site offices and storage compound and for all its plant, materials, equipment and tools at all times. CONTRACTOR shall be wholly responsible for the security of Owner's Representative's facilities.
- F. The CONTRACTOR shall make all arrangements for all utilities and shall be responsible for maintaining all utilities, including all Owner's Representative's utility services at no additional cost to the OWNER. In areas where connections to local sewer systems are not available or practical, install and maintain sewage holding tight tank systems and empty as necessary. These sewer systems must be equipped with means of monitoring and preventing overflows. Remove the systems at the end of construction at no additional cost to OWNER.
- G. Erosion and Sedimentation Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.

1.6 QUALITY ASSURANCE

- A. Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70. Temporary wiring shall conform to Article 590 of the NEC.
- B. Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.
- C. Accessible Temporary Egress: Comply with applicable provisions of the Architectural Barriers Act and Texas Accessibility Standards.

2 - PRODUCTS

2.1 MATERIALS

- A. Chain-Link Fencing: 2-inch mesh chain-link fabric fencing, minimum 0.148-inch-thick, galvanized-steel; minimum 6 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top rails, and with 3-wire galvanized barbed-wire top strand on vertical extensions angled away from the interior of the site.

2.2 TEMPORARY FACILITIES

- A. Field Offices, General: Prefabricated or mobile units with serviceable finishes, temperature controls, and foundations adequate for normal loading.
- B. [BEGIN ADDENDUM #2] OWNER's Field Office: Materials, equipment, and furnishings provided under this Section shall be new and meet all applicable codes and regulations. Within 60 days after Notice to Proceed, furnish all materials and equipment and construct, paint, furnish and maintain an OWNER's field office of sufficient size to accommodate needs of OWNER, Owner's Representative, and Engineer, and to accommodate project meetings. Minimum size shall be 3,600 square feet (60' by 60'). Office shall be leveled upon installation and located north of Barber Street and west of the Outfall Shaft. CONTRACTOR's field office shall be located within 50 feet of OWNER's field office, and a covered walkway shall connect entrances between the OWNER's and CONTRACTOR's field offices. **Owner's office shall be separate from CONTRACTOR'S field office and for the exclusive use of the OWNER.** OWNER's field office shall be set up as follows:
 - 1. Provide eight office spaces, minimum 10' by 12' each.
 - 2. Provide a storage office space of at least 8' by 10' and equip with 5 metal shelving units 72" by 24" by 48".
 - 3. Provide a lockable closet (Z1 lockset) for storage office.
 - 4. Provide a utility office space for computer server, telephone backboard and equipment.
 - 5. Provide a lockable keyed door for each office space.
 - 6. Provide each office two wall hung cabinets.
 - 7. Provide lighting fixtures capable of maintaining average illumination of 20 foot-candles (215 lux) at desk height.

8. Provide one men's and one women's restroom facility, each complete with wash basins with hot and cold running water, mirrors, soap and paper towel dispensers, shower and change area facilities with six metal lockers. Men's restroom to include one shower stall, one ADA compliant enclosed stall and one urinal. Women's room to include one enclosed shower stall, one ADA compliant enclosed stall and one enclosed stall.
9. Provide a 40-gallon minimum capacity hot water heater.
10. Provide an additional restroom facility with a single toilet, wash basin, mirror, shower stall, soap and paper towel dispensers.
11. Provide one kitchen/breakroom area with double sink with hot and cold running water, at least 16 linear feet of 24-inch deep counter space for microwave and coffee maker, cabinets above and below counters. In addition, provide one (1) 5-foot diameter table with six (6) kitchen chairs.
12. Provide one conference room, minimum 18' by 28' with mounted white board (adequate size for the room) and 8 erasable ink pens and 3 erasers. (Quartet or equal).
13. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall in every office. Additionally provide a floor-mounted duplex receptacle with box and removable cover plate located in center of the conference room. Provide all computer (Cat 6) wiring and data ports from the server utility room to each office space, the conference room, copier location, reception area and a minimum of 6 data ports to support 6 work spaces in a bull pen area. Data port in the conference room shall be floor mounted adjacent to the floor mounted electrical outlet.
14. Cover all floors with composition vinyl tile.
15. Provide a minimum of three exterior insulated doors with windows, dead bolts, and closers.
16. Provide a covered porch (8' by 10' minimum) at each door. At the front entrance, provide hand rail and an ADA compliant ramp.
17. Provide key entrances with Z-1 City of Dallas Best locking system (provide 6 keys) also to be used for padlocks.
18. Provide double glaze windows with proper screens and blinds and in sufficient quantities to provide adequate lighting and ventilation for each office space.
19. Provide all doors and windows with security bars or security screens. Provide dead bolts and door closers for all exterior doors.
20. Equip office space with adequate electrical service, convenience outlets for equipment provided, and lighting.
21. Provide HVAC system; include heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg. F. The system shall include an overhead plenum and wall return system. Provide HVAC system filter changes every 3 months or more frequently if required for proper operation of the HVAC system.
22. Provide skirting and tie-downs for office and insulate pipes to prevent freezing. Provide a concrete stoop with boot scraper at the foot of all stairs. Provide and maintain gravel throughout the life of the project in a 10-foot wide area around the office perimeter. Provide a cleaning service (including supplies and consumables) for daily office operations and cleaning. Field office shall be cleaned and serviced daily. Include waxing of floors and window cleaning when directed. Maintenance requests not resolved within 48 hours may be resolved by the OWNER and the cost of such maintenance backcharged to the CONTRACTOR.
23. Provide a minimum of 12 paved parking spaces for the OWNER's sole use immediately adjacent to the OWNER's field office and clearly identified as reserved.
24. Actual layout, number of offices, dimensions for rooms, will be determined by the OWNER through the submittal process.

- C. Furnish and equip OWNER's field office as follows:
1. Twelve (12) lockable desks 60" by 30" (Hon or equal) and one (1) L-shaped administrative/receptionist desk (HON or equal) for entrance.
 2. Thirteen (13) swivel/tilt mesh desk chairs with arms (Hon HONMH02MST1C or equal).
 3. Sixteen (16) upholstered side chairs (Hon or equal).
 4. Fourteen (14) 36" by 12" by 72" steel bookshelves (Hon or equal)
 5. Fourteen (14) office trash containers.
 6. One (1) plan rack complete with 30" clamps (Stafco 5026 or equal).
 7. Eighteen (18) letter-size vertical filing cabinets five drawers (lockable) (Hon or equal).
 8. One (1) legal-size vertical filing cabinet four drawers (lockable) (Hon or equal).
 9. Not Used.
 10. Two (2) Metal Storage Cabinets, double door, lockable 36" by 78" by 18" (Hon or equal)
 11. One (1) conference table (20-foot by 6-foot) with twenty (20) tilt and swivel office armchairs (HONMH02MST1C or equal).
 12. Ten (10) 72" by 30" folding tables.
 13. One (1) refrigerated water dispenser, plumbed to the cold water supply, with water filter . . . **OR** . . . a bottled water dispenser with chilled water capability and bottled water service.
 14. One (1) microwave, 1.6 cubic foot, 1000 watts minimum.
 15. One (1) double pot coffee maker plumbed to water supply in break room (Bunn or equal).
 16. One (1) minimum 20 cubic foot refrigerator with freezer and ice maker, plumbed to the cold water supply.
 17. One (1) under-counter dishwasher.
 18. Two network-ready print, copy, scan, fax machine (Kyocera ECOSYS FS-C8525MFP, or approved equal) complete with three 500-sheet paper drawers for sheets up to 11" by 17" and a 500-sheet finisher unit. Supply a service and maintenance agreement for the duration of the project. Toner and paper shall be provided by the CONTRACTOR for the duration of the project, keeping at least two reams each of 8.5" by 11" and 11" by 17" paper and at least one spare toner cartridge of each color onsite at all times. **[END ADDENDUM #2]**
 19. Four (4) telephone trunk lines.
 20. Telephone system, installed and maintained by the CONTRACTOR and acceptable to the OWNER, capable of supporting four (4) auto rollover numbers, with intercom, paging, voice mail, conference calling, selectable outgoing call restrictions, and night service.
 21. Twelve (12) speaker telephones manufactured by the same company as the telephone system, fully integrated with the telephone system, with each phone having redial and speed dial capability, call and message waiting signals, and volume control.
 22. Provide dedicated internet access with minimum 50 Mbps download and minimum 10 Mbps upload, with at least one static IP address dedicated for the exclusive use of the OWNER's office. Service shall be similar to DSL or Cable Modem data service. Data lines shall terminate in each office space provided for the OWNER in a wall mounted RJ-45 jack. In addition, provide secure WiFi within the OWNER space.
 23. Provide and maintain a monitored intrusion and fire alarm system for the OWNERS field office facilities.
 24. Two (2) minimum 3-foot by 6-foot whiteboards with 4 erasable ink pens and 1 eraser for each (Quartet or equal).
 25. Eight (8) minimum 2-foot by 4-foot whiteboards with 4 erasable ink pens and 1 eraser for each. (Quartet or equal).
 26. Two (2) 6-foot by 4-foot cork boards (Quartet or equal).
 27. Supply and service first aid station (Zee 0160 or equal).
 28. Supply and service automated external defibrillator (AED) including additional pad set (Philips Heartstart or equal).

29. One (1) 70-inch minimum high definition LED monitor that is wireless capable mounted on a wall in the conference room.

2.3 EQUIPMENT

- A. Four (4) Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

3 - EXECUTION

3.1 INSTALLATION, GENERAL

- A. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work. Locate facilities to limit site disturbance.
- B. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed.

3.2 TEMPORARY UTILITY INSTALLATION

- A. General: Install temporary service or connect to existing service.
- B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
- C. Water Service: Install water service and distribution piping in sizes and pressures adequate for construction. Upon final completion, restore these facilities to condition existing before initial use.
- D. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.

3.3 SUPPORT FACILITIES INSTALLATION

- A. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust. Pave haul roads and parking areas at the outfall site.
- B. Traffic Controls: Comply with requirements of authorities having jurisdiction.
1. Protect existing site improvements to remain including curbs, pavement, and utilities.
 2. Maintain access for fire-fighting equipment and access to fire hydrants.
- C. Parking: Provide temporary parking areas for construction personnel.
- D. Lighting: Provide a pole mounted light to adequately illuminate the area outside of the office. See Note 13 on Drawing CO-201.

- E. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction. Maintain Project site, excavations, and construction free of stormwater. Dispose of rainwater in a lawful manner that will not result in flooding this Project or adjoining properties or endanger permanent Work or temporary facilities.
- F. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Remove refuse from the site no less than weekly. Comply with requirements of authorities having jurisdiction.
- G. All facilities and equipment shall be maintained, including but not limited to HVAC, lighting, plumbing, (wrap plumbing pipes to prevent freezing or provide heat tape) office equipment, and office furnishings until final acceptance of contract work.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

- A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities that is caused by the Contractor.
- B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
- C. Pest Control: Engage pest-control service to recommended practices to minimize attraction and harboring of rodents, insects, and other pests and to perform extermination and control procedures at regular intervals so that support facilities will be free of pests and their residues. Perform control operations lawfully, using environmentally safe materials.
- D. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
- E. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
- F. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.

4 - MEASUREMENT AND PAYMENT

- 4.1 No separate measurement and/or payment shall be made for temporary facilities and controls.

END OF SECTION

VOLUME I OF III

**BID REQUIREMENTS
SPECIAL PROVISIONS
PROPOSAL FORMS**
and
DIVISION 1 GENERAL REQUIREMENTS

for

**STORM DRAINAGE IMPROVEMENTS
MILL CREEK/PEAKS BRANCH/STATE THOMAS
DRAINAGE RELIEF TUNNEL PROJECT**

**PROJECT NUMBERS PB06T523, PB06T524,
PB06T525, PB06T536, TW12S769**

**DALLAS WATER UTILITIES
CONTRACT NUMBERS 15-387F / 15-388F**



TRINITY WATERSHED MANAGEMENT

AND

DALLAS WATER UTILITIES

CITY OF DALLAS

HALFF ASSOCIATES, INC.
TBPE FIRM #F-312

