

Addendum Number 02

06/14/2024

To Drawings dated 05/03/2024

Palo Alto College – Hydronic Piping Replacement

Prepared by: LEAF Engineers, Inc.
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LEAF Project No.: 230030

Notice to Proposers:

- A. Receipt of this Addendum shall be acknowledged on the Proposal Form.
- B. This Addendum forms part of the Contract documents for the above referenced project and shall be incorporated integrally therewith.
- C. Each proposer shall make necessary adjustments and submit his proposal with full knowledge of all modifications, clarifications, and supplemental data included therein. Where provisions of the following supplemental data differ from those of the original Contract Documents, this Addendum shall govern.

SPECIFICATIONS

Item No. 01: Deletion of the following specifications within the project manual:

- ~~a. 004011-Felony Conviction Notification(A)~~
- b. 004012-List of Subcontractors (A)
- ~~c. 004013-Affidavit of Non-Discriminatory Employment(A)~~
- ~~d. 004014-Affidavit of Non-Asbestos, Lead, and PCB Use(A)~~
- e. 004017-Certification of Criminal History Record Information Review by Contractor Employer (A)
- f. 004018-Conflict of Interest Questionnaire (A)
- ~~g. 004020-Certificate of Interested Parties(A)~~
- h. 004500-Selection Criteria and Contractor Information(A)
- i. 004519-Non-Collusion Affidavit (A)
- ~~j. 006519.16-Affidavit of Release of Liens Form(A)~~

Item No. 02: Add specification Division 23 Section 21 16.01 – Underground Hydronic High Density Polyethylene (HDPE) Pipe

DRAWINGS

- Item No. 01: Sheet M2.12 center top of the sheet near #16; there is a note for a Valve Vault and to refer to Detail 5/Sheet M3.01.
- a. The callout is for automated valves as it gives voltage and size.
 - a. Are the actuators to open and close or modulating?

Project No. 230030 – Addendum No. 02

Response: Motorized valves are to be Open and Close only type (Two-Position valves).

Item No. 02: Please specify and identify Input and Output points for the new hydronic piping.

Response: Input: Status - Aux. Contact
Output: Open - Close (Two Position Valve)
Software: Dynamic Graphic Creation

Item No. 03: PDF Attachment - M2.01 Suggested Changes

Response: 1. Base Bid shall be as per drawings for Black Steel Schedule 40 piping throughout.
2. Any contractor proposed design changes including pipe routing, valve locations, added/deleted valves or vaults or other shall be coordinated with the owner for approval once the job has been awarded.

Item No. 04: Provide an Electrical Site Plan and Enlarged Plans with identified conduit placement and underground electrical trenching details.
a. Reference Sheet M3.01, Detail 5 Valve Vault Detail
i. Controls/Power Conduit: Route a pair of 1" conduits below grade between the central plant and the valve vault.
1. Identify where the power is coming from—specific locations of panels and a one-line drawing diagram.

Response: The existing Valve Vaults in the vicinity of the Central Plant that has the Control valves the contractor shall field verify and trace the electrical and control wiring pathway back to central plants respective existing panels to be reused (repurpose). 120-volt power is available from adjacent central plants. The installation of the new electrical and control wiring conduit pathway shall be installed parallel with the new Hydronic piping. This work is to be coordinated with Control Provider Entech / Schneider system contractor.

Item No. 05: Reference Sheet M2.11
a. Adjacent to Guadalupe Hall Building #2 Plan South - 8" HWS/R is labeled.
1. Where is this hot water coming from?
b. Adjacent to Palomino Center Building #3 Bldg. D Plan South - 6" HWS/R is labeled.
1. Where is this hot water coming from?

Response: a. 1. The existing 8" HWS/R main from the existing Old Central Plant (#11).
b. 1. The existing HWS/R piping system loop that interconnects between the five (5) building group.

Item No. 06: Reference Sheet M2.20
a. Where is the supply for the hot water shown on Phases #3 & #4?

Response: There is only CWS/R system within these phases, there is no HWS/R piping requirement for these phases.

Item No. 07: Reference Civil Sheets
a. The graphic scale is scaled incorrectly. Sheets (C-1.0, -1.1, -1.2, -1.3, -1.4, -2.0, -2.1, -2.2, -2.3, -2.4)

Response: Scale correct on revised Civil sheets.

Item No. 08: Reference Specification 01 23 00
a. Alternate #3 – Provide project specifications for HDPE pipe and fittings.

Response: Specification section 23.21.16.01 Underground Hydronic Piping will be provided.

Item No. 09: Reference Sheet M3.01, Detail 5 Valve Vault Detail
a. Identify who the DDC controls will be by, OFOI or CFCI?
b. Identify the DDC control provider and system.

Response: a. Controls to be CFCI.
b. Entech controls provider and Schneider controls system.

Item No. 10: Mechanical needs to identify where the discharge of the chemical water in the pipes is to go.
a. Need discharge pipe path and location for each proposed phase (Reference Sheet M2.20).

Response: To be coordinated with the owner once the project is awarded.

Item No. 11: We assume schedule and associated liquidated damages reference Base Bid scope only.
a. Will schedule and associated damages for Alternates be negotiated prior to Notice to Proceed if Alternates are selected?

Response: Schedule and liquidated damages refer to base bid scope. If alternates are accepted, schedule and liquidated damages will be negotiated.

Item No. 12: For excavation of the existing hydronic piping.
a. What is the buried depth of the existing hydronic pipe.
b. Or is there a depth for the new pipe to be buried at per the Mechanical engineer: or kept matching to the existing pipe depth?

Response: a. Existing piping varies, typically no more than 5-7 feet below grade. Actual depth to be determined in the field.
b. New piping depth to match existing where feasible and shall be adjusted as necessary to avoid existing utilities.

Item No. 13: Specification 01.21.00 Allowance
a. Are there any allowances for this project? For example, Contingency or Testing and Inspecting Allowance.

Response: No allowance in project.

Item No. 14: There appears to be many light poles, electrical manholes, and power transformers near or within the intended piping route. Are there any electrical drawings available for the project?

Response: All known utilities are indicated on Civil plans. Contractor to survey and locate existing utilities prior to beginning work.

Item No. 15: Many existing utilities appear to be within the piping route. Are any profiles available to determine if these utilities are above, below, or conflicting with the proposed hydronic piping?

Response: Same as No. 14.

Item No. 16: Where is the intended laydown yard to store piping and construction materials?

Response: Laydown area to be coordinated with the owner once project is awarded.

Item No. 17: Alternate 3 calls for HDPE piping in lieu of steel. What is the intended operating pressure for the heating water piping? The spec calls for 150psi. At 180F we would have to use DR 7, which

according to our pre-insulated piping manufacture would be astronomically expensive, and probably take 6 months to get.

Response: HDPE piping pressure class 150 psi per specification.

Item No. 18: For alternate 3, does the HDPE piping need to be upsized to maintain an approximate same inner diameter?

Response: The sizes indicated on the plans are minimum inner diameter.

Item No. 19: Is a geotechnical report available for the project or if unavailable, any reports from previous projects in the vicinity?

Response: A geotechnical study is attached.

Item No. 20: Are the depths for the existing piping known? If not, what depth should we assume will need to excavate in order to remove them?

Response: Existing piping varies, typically no more than 5-7 feet below grade. Actual depth to be determined in the field.

Item No. 21: Are there profile drawings available for the new and existing hydronic piping?

Response: All known utilities are indicated on Civil plans. Contractor to survey and locate existing utilities prior to beginning work.

Item No. 22: Regarding the Alternate #3 for the HDPE option, can you provide a Specification for the HDPE pipe and fittings? What are the HDPE pipe insulation requirements?

Response: Specification section 23 21 16.01 Underground Hydronic High Density Polyethylene (HDPE) Pipe will be provided.

Item No. 23: What is the sequence of operation for motorized control valves shown in the concrete vaults on drawings M2.10 and M2.11?

Response: Motorized valves are to be Open and Close only type (Two-Position valves).

Item No. 24: Can more information be provided about the controls for the control valves at the vaults?

Response: See responses for Item No. 2, 4, and 9.

Item No. 25: Regarding these control valves, there doesn't appear to be any information about how electrical power will be run to the vault control valve actuators or the required voltage, etc. Please advise.

Response: See response for Item No. 4.
Also 120-volt power is available from adjacent central plants.

Item No. 26: For the purpose of bidders bidding the same thing, can you provide what we are to assume the existing depth is of the existing hydronic piping?

Response: See responses for Item No. 12 and 20.

Item No. 27: Who is the DDC controls company for this campus?

Response: Entech controls provider and Schneider controls system.

Item No. 28: Note 15 on M0.01 states contractor shall keep vehicular and pedestrian access ways clear and clean at all times. The demolition plans require removal of some asphalt paving and a lot of sidewalks

which will at times close access to vehicles and/or pedestrians. Are there any specific access points on campus that are especially sensitive which may require work after hours or temporary sidewalks in order to not close those critical points of access?

Response: All campus buildings must be accessible for classes and campus events. Access closure to any vehicles and pedestrians to be coordinated with the owner during construction.

Item No. 29: Note 14 under General Notes on M0.01 mentions the Contractor's staging area. Where on campus will this be?

Response: Staging area to be coordinated with the owner once project is awarded.

Item No. 30: Note 13 under General Notes states to fence the area of construction. Is the intent to fence the entire perimeter of each phase as drawn on the Phasing Plan on Sheet M2.20? Or is the intent to just fence in an area where?

Response: Phases are shown as a general guideline of scope of work. Phases may be adjusted to accommodate campus requirements or events. Contractor to coordinate with the owner and determine the fencing perimeter of the construction site once job is awarded.

Item No. 31: Detail 2 on Sheet L0.01 states we are to provide 8' green privacy screen at perimeter fencing as well as vinyl banners with vibrant colors. In order to price this, can you provide detailed information on where you want the temporary fence placed in each phase?

Response: See response Item No. 30.

Item No. 32: Reviewing Sheet M2.20, there are five phases. Is the intent for each phase to be done in sequential order starting with Phase 1 and then not starting the next phase until the previous phase is complete? Or can multiple phases be under construction at the same time as long as it is coordinated and scheduled well with the campus?

Response: Phases are shown as a general guideline of scope of work and may be adjusted to accommodate campus requirements or events. Multiple phases can be under construction concurrently provided all work is coordinated with and approved by owner.

Item No. 33: If one phase must be complete before another one starts, what will be the definition of complete for each phase?

Response: See response Item no. 32.

Item No. 34: Is there a limit to the amount of trench that is open at any given time?

Response: No limit provided all buildings remain accessible for classes and campus events.

Item No. 35: Notes 1 and 2 on Sheet M3.01 indicates "select backfill" for the backfill above the proposed piping. Is the intent to import select fill to backfill the trenches with or is the intent to backfill with the same soil that was excavated during trenching? If select fill is required, please provide a spec.

Response: Backfill with the same soil that was excavated during trenching.

Item No. 36: What density will the backfill above the piping be tested to?

Response: A geo-technical report is not provided for this project however a report in the vicinity will be provided in Addendum No. 02.

Item No. 37: Was a geotechnical study completed for this project? If so, can the report be shared with the bidders?

Response: A geotechnical study is attached.

Item No. 38: RFP section JJ indicates a submission order with Owner requirements listed within the RFP. Review RFP and Spec section 00 45 00. Please call to review submission requirements.

Response: Section 00 45 00 will be removed from the project manual in Addendum No. 02. See attachment.

Additional Item:

ACD/Owner concern on the Hydronic system tests. Revision to the specification Section as follows

SECTION 23 21 16 - UNDERGROUND HYDRONIC PIPING

3.6 FIELD QUALITY CONTROL

C. Tests and Inspections:

2. Test hydronic piping as follows:

- a. Subject hydronic piping to hydrostatic test pressure that is not less than 1.5 times the design pressure.
- b. After hydrostatic test pressure has been applied for a minimum of (1) one hour **and not to exceed a maximum of four (4) hours** to examine piping connections, fittings, and joints for leakage. Remake leaking joints using new materials or replacement of pipe section and repeat hydrostatic test until no leaks exist.

END OF ADDENDUM NO. 02