ADDENDUM

Project Name: Wayne State University
TechTown Chilled Water System Upgrades
PRB Duct Modifications

PBA Project Number: 2018.0434
Addendum Structural Drawings
Date: 01/14/2019

Each Bidder’s proposal shall include the work described herein.

Unless otherwise indicated, the work described herein shall comply with, and be equal in all respects to, the original Specifications and the Drawings accompanying same. Include incidental work required to properly complete the work, whether stated herein or not.

Specifications Issued: None
Drawings Issued: S0.1, S0.2, S1.2, S1.3, S3.0

**Structural Drawing Items:**

Added structural drawings.

End of Addendum.
**Thermal Factor Ct = 1.0 ASCE Table 7-3**

The structure is designed for the following live loads, in addition to the lateral loads, superimposed dead loads, and self-weights of the structure:

1. **S0.1 GENERAL STRUCTURAL NOTES**
   - Contractor shall visit the site and become familiar with the existing conditions.
   - Contractor's failure to provide shop drawing dimensions will result in a penalty of $50 per drawing for each omission.
   - Welding shall be done with appropriate E70xx series electrodes compatible with the new and existing materials.

2. **S0.2 STRUCTURAL STEEL**
   - Beam connections shall be standard AISC approved connections. Extended shear plate connections are specifically required by code.

3. **S0.3 ANCHORS**
   - Adhesive anchors are approved. Submittals for alternative anchors will be reviewed by a qualified independent testing agency.
   - Post-installed anchors include all mechanical and adhesive anchors noted on Construction Documents. All anchors are to be provided by the Contractor.
   - The embed depth required for post-installed anchors is shown on the drawings. Adhesive anchors as specified in ICC-ESR Evaluation Report.

4. **S0.4 CONCRETE**
   - Concrete shall be placed in the same day it is delivered.
   - Clean existing concrete surface to solid structural concrete. Grind smooth for full steel contact and to embed depth required for post-installed anchors.

5. **S0.5 INSULATION**
   - Insulation shall be installed in accordance with the American Society for Testing and Materials (ASTM) standards. The typical details shown are approximate only and do not indicate the required number of bolts or weld sizes, unless specifically noted.

6. **S0.6 WELDING**
   - Welding shall be done by certified welders. For critical connections, full penetration welding shall be performed.

7. **S0.7 ADHESIVES**
   - Adhesive anchors are approved. Submittals for alternative anchors will be reviewed by a qualified independent testing agency.
   - Grout.

8. **S0.8 BRACING**
   - Body bracing, guys or tie back at reasonable intervals (not more than 70 drawings per submittal per week). The 10 working days shop drawing return without review.

9. **S0.9 FLOOR SYSTEMS**
   - Post-installed anchors include all mechanical and adhesive anchors noted on Construction Documents. All anchors are to be provided by the Contractor.

10. **S0.10 MACHINERY SUPPORTS**
    - Uniform Load, AISC Steel Construction Manual, unless specifically noted on the Drawings.

11. **S0.11 ROOF DECK**
    - The following anchors are approved. Submittals for alternative anchors will be reviewed by a qualified independent testing agency.

12. **S0.12 SHEET METAL**
    - Sheet metal suggested thickness for insulation sheathing (minimum) is shown on individual shop drawings.

13. **S0.13 VENTILATION**
    - Ventilation shall be installed in accordance with the applicable codes and standards.

14. **S0.14 HIGH-VELOCITY AIR DISTRIBUTION**
    - High-velocity air distribution shall be installed in accordance with the applicable codes and standards.

15. **S0.15 PIPING**
    - Piping shall be installed in accordance with the applicable codes and standards.

16. **S0.16 ELECTRICAL**
    - Electrical shall be installed in accordance with the applicable codes and standards.

17. **S0.17 MECHANICAL**
    - Mechanical shall be installed in accordance with the applicable codes and standards.

18. **S0.18 OTHER**
    - Other shall be installed in accordance with the applicable codes and standards.

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7. REFER TO SPECIAL INSPECTION SCHEDULES AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL QUALITY CONTROL TESTING AND INSPECTIONS.

6. WHERE FABRICATION OF STRUCTURAL, LOAD-BEARING, OR LATERN LOAD-RESISTING MEMBERS OR ASSEMBLIES IS BEING CONDUCTED ON THE PREMISES OF A FABRICATOR'S SHOP, SPECIAL INSPECTIONS OF

2. DESIGNATIONS:

1. SPECIAL INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE 2015 MICHIGAN (INTERNATIONAL) BUILDING CODE CHAPTER 17 AND AS MODIFIED HEREIN.

O: OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS.

INSPECTION OF WELDING:

1. INSPECTION TASKS PRIOR TO WELDING:

A. WELDING PROCEDURE SPECIFICATIONS (WPSs) AVAILABLE.

B. MANUFACTURER CERTIFICATIONS AVAILABLE FOR WELDING CONSUMABLES.

C. MATERIAL IDENTIFICATION (TYPE/GRADE).

D. ARC STRIKES.

E. K-AREA.

F. CONFIGURATION OF FINISH AND ACCESS HOLES.

G. REPAIR ACTIVITY.

H. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.

- INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)
- PREHEAT APPLIED
- WELD/BASE-METAL FUSION.
- SHIELDING GAS TYPE/FLOW RATE
- EACH PASS WITHIN PROFILE LIMITATIONS
- TRAVEL SPEED
- TACKING (TACK WELD QUALITY AND LOCATION)
- SETTINGS ON WELDING EQUIPMENT
- PACKAGING
- DIMENSIONS (ALIGNMENT, GAPS AT ROOT)
- DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)
- BACKING TYPE AND FIT (IF AVAILABLE)
- CLEANLINESS (CONDITION OF STEEL SURFACES)

2. INSPECTION TASKS DURING WELDING:

A. SPECIAL INSPECTION OF RAILING SYSTEMS COMPOSED OF STRUCTURAL STEEL.

B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO TIGHTENING.

C. PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, SIZE, LENGTH AND LOCATION OF WELDS).

D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC PRETENSIONING OPERATIONS.

E. WPS FOLLOWED:

- PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION AGENCY
- TESTING AGENCY QUALIFIED TO TEST AND INSPECT MATERIALS AND ASSEMBLIES. TESTING AGENCY SHALL BE UNDER THE SUPERVISION OF THE SPECIAL INSPECTOR.
- OBSERVATION OF FABRICATED AND INSTALLED ITEMS OF THEIR DESIGN IN ADDITION TO THE SPECIAL INSPECTION.

2. INSPECTION TASKS AFTER WELDING:

A. CONCRETE PLACEMENT:

- OBSERVATION OF THE CONCRETE BONDED TO THE WELDED JOINT.
EXIST. POSTS
V.I.F.

EXIST. STEEL FRAME
CH-5
NEW CHILLER
6,100 LB

EXIST. CONCRETE
COLUMN BELOW
V.I.F.

EXIST. POST
V.I.F.

EXIST. CONCRETE
COLUMN BELOW
V.I.F.

EXIST. PARAPET TO BE RESTORED AS
REQUIRED AT BEAMS CONNECTION
V.I.F.

NEW W BEAMS
SUPPORTING
CH-5 CHILLER
CURB

EDGE OF CHILLER CH-4
TO BE SUPPORTED
OVER NEW W12X26
12'-6" MAX. (V.I.F.)

1'-2" (V.I.F.)

ROOF AND PLATFORM FRAMING NOTES:

1. REFER TO MECH. FOR TOP OF STEEL REFERENCE ELEVATION UNLESS NOTED THUS [±X'-XX"
OR REFER TO PLAN.

2. DESIGNATIONS

3. COORDINATE SIZES AND LOCATION OF ALL ROOF OPENING S WITH ARCHITECTURAL
AND MEP DRAWINGS. VERIFY SIZES, WEIGHTS, AND LOCATIONS OF ROOF TOP
MECHANICAL EQUIPMENT WITH ARCHITECTURAL AND MEP DRAWINGS. REPORT ANY
DISCREPANCIES WITH RESPECT TO SIZE AND WEIGHTS SHOWN ON THESE DRAWINGS
TO THE ARCHITECT AND ENGINEER.

4. FRAMING FOR ALL ROOF DRAINS AND OVERFLOW DRAINS SHALL BE L5x3 1/2x5/16 LLV
TYPICAL, ALL SIDES OF SUPPORTED EDGE, UNLESS NOTED OTHERWISE.

5. REFERENCE DRAWINGS

NOTES FOR EXISTING FRAMING

1. ALL EXISTING EXPOSED EXISTING STEEL FRAME TO BE INSPECTED, CLEANED AND REPAINTED WITH EPOXY PAINT AS REQUIRED.

2. BASED ON THE ABOVE, ANY DETERIORATED STEEL SECTIONS (10% LOSS OF SECTION OR MORE) TO BE REINFORCED
(OR REPLACED IF REQUIRED).

3. REFER TO PLAN.