Addendum #1

Please note the following clarifications are hereby made to the aforementioned RFCSP.

Update/Change

Clarifications to the Drawings attached

End of Addendum

Denise Harpool

Issued by
10/8/2020
Date

ACKNOWLEDGEMENT: Please acknowledge receipt of this addendum by initialing the appropriate line on the Addenda Checklist, Section 4 of the RFCSP.
1. **During Plaza Demolition, Contractor shall be responsible for identifying and marking all plumbing entering and exiting the existing equipment vaults.**

2. **Should it be required that the alignments of the existing plumbing be changed, the Contractor shall move/relabel the existing plumbing in order to ensure the new plumbing is tied in accurately.**

3. **Additional cost will occur via C/O if existing plumbing is not usable.**

4. **During Plaza Demolition, Contractor shall be responsible for identifying and marking all electrical conduit/wire entering and exiting the existing equipment vaults.**

5. **During pipe installation, keep out of the drip line of existing trees as much as possible. The intent is to have as little impact to the root zone(s) as possible.**

6. **It is the responsibility of the licensed electrical contractor (installer) to provide any associated permits for inspection purposes. Electrical contractor is responsible to provide shop drawings to owner/owner's rep and architect.**

7. **All existing plumbing runs shall be pressure tested prior to reconnecting to new plumbing runs.**

8. **It is the responsibility of the licensed electrical contractor to notify the University in writing of any conditions that would cause the water features to not operate as intended.**

9. **Contractor shall confirm functionality of existing drain and/or overflow plumbing.**

10. **Contractor shall be responsible for providing appropriate sized wire, conduit(s), bonding, and services in accordance with but not limited to all UNT construction standards and U.L. Codes.**

11. **It is the responsibility of the licensed electrical contractor to provide shop drawings to owner/owner's rep and architect.**

12. **All PVC piping above grade shall have heat trace installed, per specs.**

13. **It is the responsibility of the University in writing of any conditions that would cause the water features to not operate as intended.**

14. **Contractor shall confirm functionality of existing drain and/or overflow plumbing.**

15. **During pipe installation, keep out of the drip line of existing trees as much as possible.**

16. **Additional cost will occur via C/O if existing plumbing is not usable.**

**NOTE:** Licensed electricians to provide electrical feeder from "Panel H-G," located within Willis Library, and brought to Power Distribution Panel Board (PDP-B) at Fountain Equipment Yard.

**OVERALL ELECTRICAL KEY MAP**

**SCALE:** 1" = 20'

**NOTE:**
- Licensed electricians to provide electrical feeder from "Panel H-G," located within Willis Library, and brought to Power Distribution Panel Board (PDP-B) at Fountain Equipment Yard.

**OVERALL ELECTRICAL KEY MAP**

**SCALE:** 1" = 20'
LIMITS OF WORK

MATCHLINE WF6.02 '2'
MATCHLINE WF6.02 '1'

LIGHTING ONE-LINE
SCALE: 1" = 10'-0"

NOTE:
1. DURING PLAZA DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND LABELING ALL PLUMBING ENTERING AND EXITING THE EXISTING EQUIPMENT VAULTS.

2. DURING PLAZA DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING AND LABELING ALL ELECTRICAL CONDUIT ENTERING AND EXITING THE EXISTING EQUIPMENT VAULTS.

3. SHOULD IT BE REQUIRED THAT THE ALIGNMENTS OF THE EXISTING PLUMBING CHANGED, THE CONTRACTOR SHALL NOTIFY THE UNIVERSITY IN WRITING (OR IN ACCORDANCE WITH THE UNIVERSITY'S REQUIREMENTS). AN ADDITIONAL COST WILL OCCUR VIA C/O IF EXISTING PLUMBING IS NOT USEABLE.

4. SHOULD IT BE REQUIRED THAT THE ALIGNMENTS OF THE EXISTING ELECTRICAL CONDUIT/WIRE CHANGED, THE CONTRACTOR SHALL NOTIFY THE UNIVERSITY IN WRITING (OR IN ACCORDANCE WITH THE UNIVERSITY'S REQUIREMENTS). AN ADDITIONAL COST WILL OCCUR VIA C/O IF EXISTING ELECTRICAL CONDUIT IS NOT USEABLE.

5. ALL EXISTING PLUMBING RUNS SHALL BE PRESSURE TESTED PRIOR TO RECONNECTING TO NEW PLUMBING RUNS.

6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE UNIVERSITY IN WRITING OF ANY CONDITIONS THAT WOULD CAUSE THE WATER FEATURES TO NOT OPERATE AS INTENDED.

7. CONTRACTOR SHALL CONFIRM FUNCTIONALITY OF EXISTING DRAIN AND/OR OVERFLOW PLUMBING.

8. DURING PIPE INSTALLATION, KEEP OUT OF THE DRIP LINE OF EXISTING TREES AS MUCH AS POSSIBLE. THE INTENT IS TO HAVE AS LITTLE IMPACT TO THE ROOT ZONE(S) AS POSSIBLE. AFTER POINT OF CONNECTION TO EXISTING PIPES ARE DETERMINED, FIELD VERIFY PIPING TRENCH LOCATIONS WITH UNIVERSITY/ARCHITECT AND GENERAL CONTRACTOR.

9. ALL PVC PIPING ABOVE GRADE SHALL HAVE HEAT TRACE & PIPE INSULATION INSTALLED, REF. SPECS.

10. THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR (INSTALLER) TO INSTALL APPROPRIATELY SIZED WIRE, CONDUIT(S), BONDING, AND SERVICES IN ACCORDANCE WITH BUT NOT LIMITED TO ALL UNT CONSTRUCTION STANDARDS AND N.E.C. CODES.

11. IT IS THE RESPONSIBILITY OF THE LICENSED ELECTRICAL CONTRACTOR (INSTALLER) TO PROVIDE ANY ASSOCIATED PERMITS FOR INSPECTION PURPOSES. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE SHOP DRAWINGS TO OWNER / OWNERS REP AND/OR THE DESIGN TEAM BY A MASTER ELECTRICIAN WITH THEIR FULL NAME AND LICENSE NUMBER.
### FOUNTAIN EQUIPMENT LOAD CALCULATION

#### UNIT SUMMARY:

**LOAD SUMMARY**

<table>
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<tr>
<th>LOAD DESCRIPTION</th>
<th>INPUT (KVA)</th>
<th>HP</th>
<th>F.A. (%)</th>
<th>KW</th>
<th>VAR</th>
<th>VA</th>
<th>VA/(VA/h)</th>
<th>VA/(VA/h)</th>
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</table>

**L.O.D.**

**DISCONNECT BRIDGE**

**DISCONNECT TYPE:** Main Breaker

**N.C. RATING:** 15,000 MVA (F.Y.)

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**DISCONNECT TYPE:** Main Breaker

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#### GENERAL ELECTRICAL REQUIREMENTS

#### GENERAL POOL ELECTRICAL REQUIREMENTS:

- **GROUNDING:**
  - **THE FOLLOWING ELECTRICAL EQUIPMENT SHALL BE GROUNDED:**
    1. **THROUGH-WALL LIGHTING ASSEMBLIES AND UNDERWATER LUMINAIRES, OTHER THAN THOSE LOW-VOLTAGE LIGHTING PRODUCTS LISTED FOR THE APPLICATION SPECIFIED IN THE SPECIFICATIONS.**
    2. **ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5 FT OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER.**
    3. **ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE REcirculating SYSTEM OF THE SPECIFIED BODY OF WATER.**
    4. **TRANSFORMERS AND POWER SUPPLY ENCLOSED.**
    5. **GROUND-Fault CIRCUIT INTERRUPTERS.**
    6. **PANELS/BASES THAT ARE NOT PART OF THE SERVICE EQUIPMENT AND THAT SUPPLY ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH THE SPECIFIED BODY OF WATER.**

- **GROUNDING AND BONDING: **
  - **A TRANSFORMER OR POWER SUPPLY ENCLOSURE OTHER THAN A TRANSFORMER DOCKING ENCLOSURE SHALL BE CONNECTED TO THE SERVICE EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT SUPPLYING THE FOUNTAIN.**

#### PROTECTION AND LOCATION REQUIREMENTS

- **MACHINERY ENCLOSURE:**
  - **THE GOVERNMENT MEANS IS REQUIRED TO BE LOCATED WITHIN LINE OF SIGHT OF ELECTRICAL MOTORS. THE PROXIMITY OF THE DISCONNECTING MEANS TO THE WATER'S EDGE MUST NOT BE LESS THAN 3 FEET UNLESS THE DISCONNECTING MEANS IS SEPARATED FROM THE WATER BY A PERMANENT BARRIER.**

- **GROUNDFault PROTECTION:**
  - **A TRANSFORMER OR POWER SUPPLY ENCLOSURE OTHER THAN A TRANSFORMER DOCKING ENCLOSURE SHALL BE CONNECTED TO THE SERVICE EQUIPMENT GROUNDING CONDUCTOR OF THE BRANCH CIRCUIT SUPPLYING THE FOUNTAIN.**

- **GROUND-Fault CIRCUIT INTERRUPTERS:**
  - **TRANSFORMERS AND POWER SUPPLIES:**
    - **FOR UNDERWATER LUMINAIRES SHALL BE LISTED FOR SWIMMING POOL AND SPA USE.**
    - **THE FOLLOWING ELECTRICAL EQUIPMENT SHALL BE GROUNDED:**
      1. **SUBMERSIBLE AND MADE OF COPPER, BRASS, OR OTHER APPROVED CORROSION-RESISTANT MATERIAL.**
      2. **EQUIPPED WITH THROUGH-CONDUCT ENTRIES, COMPRESSION CLAMPS, OR SEALS FOR CORD ENTRY**
      3. **FILLED WITH AN ARRIEVED ENTRANCE PONDING TO PREVENT THE ENTRY OF WATER.**
      4. **BONDED AS REQUIRED.**

- **OVERHEAD CONDUCTORS:**
  - **GROUND-MOUNTED TRANSFORMERS OR OTHER ELECTRICAL EQUIPMENT SHALL MEET THE CLEARANCE REQUIREMENTS OF NEC 680.9.**
  - **WATER SUPPLY OR ELECTRICAL EQUIPMENT ASSOCIATED WITH THE SPECIFIED BODY OF WATER.**

#### LIGHTING:

- **WATER SUPPLY ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH THE SPECIFIED BODY OF WATER.**
  - **THE FOLLOWING ELECTRICAL EQUIPMENT SHALL BE GROUNDED:**
    1. **THROUGH-WALL LIGHTING ASSEMBLIES AND UNDERWATER LUMINAIRES, OTHER THAN THOSE LOW-VOLTAGE LIGHTING PRODUCTS LISTED FOR THE APPLICATION SPECIFIED IN THE SPECIFICATIONS.**
    2. **ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5 FT OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER.**
    3. **ALL ELECTRICAL EQUIPMENT ASSOCIATED WITH THE REcirculating SYSTEM OF THE SPECIFIED BODY OF WATER.**
    4. **TRANSFORMERS AND POWER SUPPLY ENCLOSED.**
    5. **GROUND-Fault CIRCUIT INTERRUPTERS.**
    6. **PANELS/BASES THAT ARE NOT PART OF THE SERVICE EQUIPMENT AND THAT SUPPLY ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH THE SPECIFIED BODY OF WATER.**