

Bidding Requirements, Contract Forms and Conditions of the Contract
ADDENDUM
Section 00900

ADDENDUM No. 1

Date August 30 , 2013

City of Austin

Project Name Future District Cooling Plant #3 Water, Sewer, and Temporary Power

C.I.P. No. 6685,033

This Addendum forms a part of Contract and clarifies, corrects or modifies original Bid Documents, dated August 26 , 2013. Acknowledge receipt of this addendum in space provided on bid form. Failure to do so may subject bidder to disqualification.

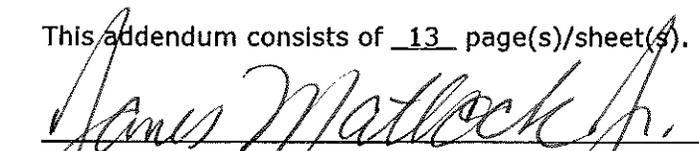
A. Project Manual Revisions:

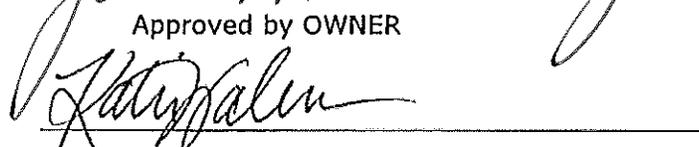
1. Delete the Page 2 of Section 00820 in its entirety after Section 00405.
2. Delete the Page 2 of Section 00820 in its entirety after Section 00475.
3. Delete Section 00830HH in its entirety and replace with the attached Section 00830HH.
4. Delete Section SS262213 in its entirety and replace with the attached Section SS262213.
5. Delete Section SS262413 in its entirety and replace with the attached Section SS262413.

B. Drawing Revisions:

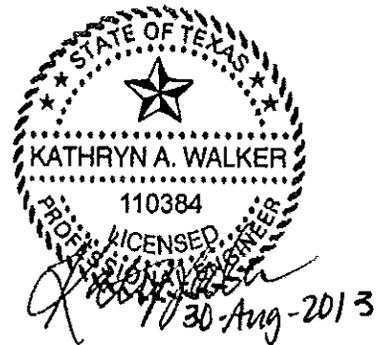
1. Delete Drawing 01E-01 and replaced with the attached Drawing 01E-01.
2. The temporary chiller location (chillers not in this contract) has been modified as shown on attached Drawing 01E-01. The temporary retaining wall (not in this contract) shown on Sheets 01C-01, 01C-02 and 01C-03 has been removed.

This addendum consists of 13 page(s)/sheet(s).


Approved by OWNER


Approved by ENGINEER/ARCHITECT

END



Bidding Requirements, Contract Forms Conditions of the Contract
WAGE RATES AND PAYROLL REPORTING
Section 00830HH

PREVAILING WAGE RATE DETERMINATION

HEAVY AND HIGHWAY CONSTRUCTION

COUNTY NAME: TRAVIS

Wages based on DOL General Decision:TX130016 01/04/2013 TX16

Classification	Wage Rate	Classification	Wage Rate
Agricultural Tractor Operator	\$ 12.69	Laborer, Utility	\$ 12.27
Asphalt Distributor Operator	\$ 15.55	Loader/Backhoe Operator	\$ 14.12
Asphalt Paving Machine Operator	\$ 14.36	Mechanic	\$ 17.10
Asphalt Raker	\$ 12.12	Milling Machine	\$ 14.18
Boom Truck Operator	\$ 18.36	Motor Grader Operator - Fine Grade	\$ 18.51
Broom or Sweeper Operator	\$ 11.04	Motor Grader Operator - Rough	\$ 14.63
Cement Mason/Concrete Finisher	\$ 12.56	Painter - Structures	\$ 18.34
Concrete Pavement Finishing Machine Operator	\$ 15.48	Pavement Marking Machine Operator	\$ 19.17
Crane, Hydraulic 80 tons or less	\$ 18.36	Pipelayer	\$ 12.79
Crane, Lattice Boom, 80 tons or less	\$ 15.87	Reclaimer/Pulverizer	\$ 12.88
Crane, Lattice Boom, over 80 tons	\$ 19.38	Reinforcing Steel Setter	\$ 14.00
Crawler Tractor	\$ 15.67	Roller Operator, Asphalt	\$ 12.78
Directional Drilling Locator	\$ 11.67	Roller Operator, Other	\$ 10.50
Directional Drilling Operator	\$ 17.24	Scraper Operator	\$ 12.27
Electrician	\$ 26.35	Servicer	\$ 14.51
Excavator, 50,000 lbs. or less	\$ 12.88	Spreader Box Operator	\$ 14.04
Excavator, over 50,000 lbs.	\$ 17.71	Structural Steel Worker	\$ 19.29
Flagger	\$ 9.45	Traffic Signal Installer/Light Pole Worker	\$ 16.00
Form Builder/ Setter, Structures	\$ 12.87	Trenching Machine Operator, Heavy	\$ 18.48
Form Setter - Paving & Curb	\$ 12.94	Truck Driver Tandem Axle Semi-Trailer	\$ 12.81
Foundation Drill Operator, Truck Mounted	\$ 16.93	Truck Driver, Lowboy-Float	\$ 15.66
Front End Loader Operator, 3CY or less	\$ 13.04	Truck Driver, Single Axle	\$ 11.79
Front End Loader Operator, over 3 CY	\$ 13.21	Truck Driver, Off Road Hauler	\$ 11.88
Laborer, Common	\$ 10.50	Truck Driver, Single or Tandem Axle Dump Truck	\$ 11.68
		Welder	\$ 15.97
		Work Zone Barricade Servicer	\$ 11.85

<http://www.wdol.gov/wdol/scafiles/davisbacon/tx.html>

The Wage Compliance information detailed below was excerpted from General Decision TX20070043 or other DOL sources.

1. Additional Trade information:

Unlisted classifications needed for work not listed within the scope of the classifications listed may be added upon the advance approval of Contract Procurement. CONTRACTOR shall submit to City of Austin Contract Procurement the following: classification, a bona fide definition of work to be performed and a proposed wage with sample payrolls conforming to area practice **prior** to the start of the job for that type of work. Proposed trade may not be performed by any trade already listed.

2. Wages

For overtime, the basic hourly rate listed in the contract wage determination must be used in computing pay obligations.

3. Proper Designation of Trade

A work classification from the Prevailing Wage Poster for each worker must be made based on the actual type of work he/she performed on the job. In summary the work performed, not the "title" determines the correct worker classification and wage. Each worker must be paid no less than the wage rate on the wage decision for that classification **regardless** of his/her level of skill (exclusive of a bona fide apprentice currently registered in a DOL approved apprentice program - proof of individual registration must be supplied in advance to the City of Austin).

4. Split Classification

If a firm has employees that perform work in more than one classification, it can pay the wage rates specified for each classification ONLY if it maintains accurate time records showing the amount of time spent in each classification. If accurate time records are not maintained, these employees must be paid the highest wage rate of all the classifications of work performed by each worker. Accurate time records tracking how many hours a worker performed the work of one trade and then switched to another trade must be accounted for on a daily basis and reflected on Employer Certified Payroll accordingly.

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

=====
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) (ii)).

In the listing above, the "SU" designation means that rates listed under the identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- * an existing published wage determination
 - * a survey underlying a wage determination
 - * a Wage and Hour Division letter setting forth a position on a wage determination matter
 - * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

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

- 2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write 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 by 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

4.) All decisions by the Administrative Review Board are final.

=====

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Dry-type transformers, 1000 kVA and less.
- B. Related Sections include but are not necessarily limited to:
 - 1. Division 0 - Bidding Requirements, Contract Forms, and Conditions of the Contract.
 - 2. Division 1 - General Requirements.
 - 3. SS 260500 - Electrical: Basic Requirements.
 - 4. SS 260526 - Grounding.

1.2 QUALITY ASSURANCE

- A. Referenced Standards:
 - 1. Institute of Electrical and Electronics Engineers, Inc./American National Standards Institute (IEEE/ANSI):
 - a. C57.96, Guide for Loading Dry-Type Distribution and Power Transformers.
 - 2. National Electrical Manufacturers Association (NEMA):
 - a. 250, Enclosures for Electrical Equipment (1000 Volts Maximum).
 - b. ST 20, Dry-Type Transformers for General Applications.
 - c. TP 1, Guide for Determining Energy Efficiency for Distribution Transformers.
 - 3. Underwriters Laboratories, Inc. (UL):
 - a. 506, Standard for Safety Specialty Transformers.
 - b. 1561, Standard for Safety Dry-Type General Purpose and Power Transformers.

1.3 SUBMITTALS

- A. Shop Drawings:
 - 1. Product technical data:
 - a. Provide submittal data for all products specified in PART 2 of this Specification:
 - b. See SS 260500 for additional requirements.
 - 2. Fabrication and/or layout drawings.
 - a. Nameplate drawing.
 - 3. Certifications:
 - a. Sound level certifications.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Subject to compliance with the Contract Documents, the following manufacturers are acceptable:
 - 1. Cutler-Hammer.
 - 2. General Electric Company.
 - 3. Power Smith.
 - 4. Square D Company.
 - 5. Siemens.
 - 6. Sola/Hevi-Duty.
- B. No like equivalent or 'or-Equal' item or substitutions is permitted.

2.2 GENERAL PURPOSE DRY-TYPE TRANSFORMERS

- A. Ventilated or non-ventilated, air cooled, two (2) winding type.

Dry-Type Transformers
Special Specification Item No. 262213

- B. Cores:
 - 1. High grade, non-aging silicon steel with high magnetic permeability, and low hysteresis and eddy current losses.
 - 2. Magnetic flux densities are to be kept well below the saturation point.
- C. Coils: Continuous wound with electrical grade aluminum.
- D. Ventilated Units:
 - 1. Core and coils assembly impregnated with non-hygroscopic, thermosetting varnish and cured to reduce hot spots and seal out moisture and completely isolated from the enclosure by means of vibration dampening pads.
 - 2. Dripproof, NEMA 1, steel enclosure finished with a weather-resistant enamel and ventilation openings protected from falling dirt.
- E. Furnish Taps for Transformers as follows:
 - 1. 3 PH, 3 to 15 kVA: Two (2) 5 percent FCBN.
 - 2. 3 PH, 15 kVA and above: Two (2) 2.5 percent FCAN and four (4) 2.5 percent FCBN.
- F. Sound Levels:
 - 1. Manufacturer shall guarantee not to exceed the following:
 - a. Up to 9 kVA: 40 dB.
 - b. 10 to 50 kVA: 45 dB.
 - c. 51 to 150 kVA: 50 dB.
 - d. 151 to 300 kVA: 55 dB.
 - e. 301 to 500 kVA: 60 dB.
 - f. 500 to 700 kVA: 62 dB.
 - g. 701 to 1000 kVA: 64 dB.
- G. Efficiency:
 - 1. Ventilated, 15 kVA and larger: Energy efficient meeting NEMA TP 1 requirements.
- H. Insulating Material (600 V and below):
 - 1. 3 to 15 kVA units: 185 DegC insulation system with a 115 DegC rise.
 - 2. 15 kVA and above units: 220 DegC insulation system with a 150 DegC rise.
- I. Ratings: 60 Hz, voltage, KVA and phase, as indicated on the Drawings.
- J. Finish: Rust inhibited primer and manufacturers standard paint inside and out.
- K. Standards: IEEE/ANSI C57.96, NEMA ST 20, NEMA TP 1, UL 506, UL 1561.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install products in accordance with manufacturer's instructions.
- B. Outdoor Locations:
 - 1. Mount ventilated type with weather shields on a concrete pad.
- C. Enclosures: Painted steel in all areas.
- D. Ground in accordance with SS 260526.

PART 4 - PAYMENT AND MEASUREMENT

4.1 MEASUREMENT

- A. Measurement for the dry-type transformers will be based on the completed installation and operation of the **owner supplied** transformers per this specification.

Dry-Type Transformers
Special Specification Item No. 262213

4.2 PAYMENT

A. Pay Item No. 262213-A

1. 30 kVA Dry-type transformer with weathershield, LS

END OF SECTION

THIS PAGE INTENTIONALLY LEFT BLANK

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Low voltage switchboards.
- B. Related Sections include but are not necessarily limited to:
 - 1. Division 0 - Bidding Requirements, Contract Forms, and Conditions of the Contract.
 - 2. Division 1 - General Requirements.
 - 3. SS 260500 - Electrical: Basic Requirements.
 - 4. SS 262416 - Panelboards.
 - 5. SS 262213 - Dry-Type Transformers.
 - 6. SS 262800 - Overcurrent and Short Circuit Protective Devices.

1.2 QUALITY ASSURANCE

- A. Referenced Standards:
 - 1. National Electrical Manufacturers Association (NEMA):
 - a. 250, Enclosures for Electrical Equipment (1000 Volts Maximum).
 - b. PB 2, Deadfront Distribution Switchboards.
 - 2. Underwriters Laboratories, Inc. (UL):
 - a. 891, Standard for Safety Dead-Front Switchboards.
- B. Verify the space required for the switchboard is equal to or less than the space allocated.

1.3 SUBMITTALS

- A. Shop Drawings:
 - 1. Product technical data.
 - a. Provide submittal data for all products specified in PART 2 of this Specification:
 - 2. See SS 260500 for additional requirements.
 - 3. Fabrication and/or layout drawings:
 - a. Switchboard layout with alphanumeric designation, protective devices size and type, as indicated in the one-line diagram or switchboard schedule.
 - b. Front elevation and plan drawing of the assembly.
 - c. Three-line or single line and schematic diagrams.
 - d. Conduit space locations within the assembly.
- B. Operation and Maintenance Manuals:
 - 1. See Section 01300 for requirements for:
 - a. The mechanics and administration of the submittal process.
 - b. The content of Operation and Maintenance Manuals.
- C. Miscellaneous:
 - 1. See Section 01300 for requirements for the mechanics and administration of the submittal process.
 - 2. Ground fault protection system test report signed by the projects supervising electrical foreman.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Subject to compliance with the Contract Documents, the following manufacturers are acceptable:

Switchboards
Special Specification Item No. 262413

1. Cutler-Hammer.
2. General Electric Company.
3. Square D Company.
4. Siemens.

B. No like equivalent or 'or-Equal' item or substitutions is permitted.

2.2 SWITCHBOARDS

A. Ratings:

1. Voltage, number of phases, number of wires, and main bus current rating as indicated on the Drawings.
2. Assembly short circuit current and interrupting device rating as indicated on the Drawings.
3. Assembly short circuit current and interrupting device rating of 65 KAIC RMS symmetrical minimum or as indicated on the Drawings.
4. Service Entrance Equipment rated.
5. 100 percent rated when 100 percent rated breakers are installed.

B. Construction:

1. Standards: NEMA PB 2, UL 891.
2. Completely enclosed, dead-front, self-supporting metal structure.
3. Vertical panel sections bolted together.
4. Frames bolted together to support and house bus, cables and other equipment.
5. Frames and insulating blocks to support and brace main buses for short circuit stresses up to ratings indicated on the Drawings.
6. All sections front and rear aligned.
7. Devices front removable and load connections front accessible for mounting switchboard against a wall.
8. NEMA 1 rated enclosure.
9. NEMA 3R rated weatherproof enclosure:
 - a. Nonwalk-in type with sloping roof downward toward rear.
 - b. Thermostatically controlled space heaters to minimize internal condensation.
 - c. Power for heater derived internal to the switchboard.
10. Interior and exterior steel surfaces cleaned and painted with rust inhibiting primer and manufacturers standard paint.

C. Buses:

1. Material: Tin-plated aluminum or silver-plated copper.
2. Main horizontal bus:
 - a. Fully rated and continuous over length of switchboard with all three (3) phases arranged in the same vertical plane.
 - b. Sufficient size to limit temperature rise to 65 DegC over average air temperature outside the enclosure of 40 DegC.
3. Neutral bus: Fully rated and continuous over length of switchboard.
4. Ground bus: 1/4 x 2 IN copper, continuous over length of switchboard and solidly grounded to each vertical section structure.
5. Bus joints connected using through bolts and conical spring-type washers for maximum conductivity.

D. Overcurrent and Short Circuit Protective Devices:

1. Main overcurrent protective device:
 - a. Individually mounted molded case circuit breaker.
2. Feeder overcurrent protective devices:
 - a. Group Compartmently mounted molded case circuit breaker.
 - b. Individually mounted insulated case circuit breaker.
3. See SS 262800 for overcurrent and short circuit protective device requirements.
4. Factory installed.

Switchboards
Special Specification Item No. 262413

5. Means to padlock all main, tie and feeder devices in the open position.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install switchboards in accordance with manufacturer's instructions.
- B. Arrange switchboard as shown on the Drawings.
- C. Outdoor location:
 - 1. NEMA 3R enclosure.
 - 2. Install on concrete pad, align front of switchboard with top edge of pad chamfer and securely fasten to pad.
- D. Miscellaneous:
 - 1. Provide circuit protective devices and other associated equipment as indicated on the Documents.
 - 2. All control wiring shall be neatly laced and have flexibility at hinge locations.

PART 4 - MEASUREMENT AND PAYMENT

4.1 MEASUREMENT

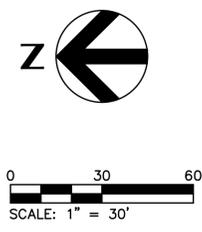
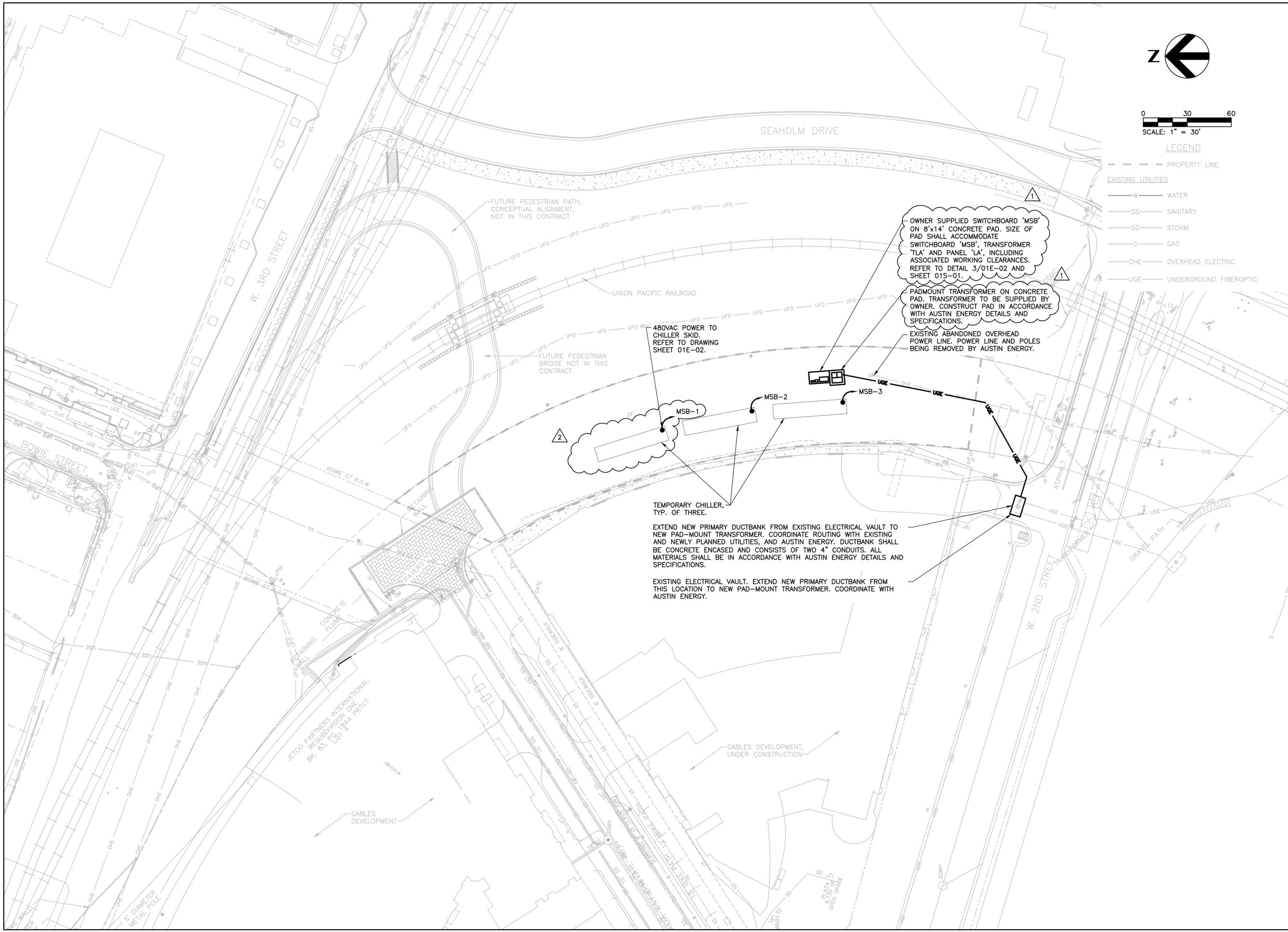
- A. Measurement for the switchboards will be based on the completed installation and operation of the **owner supplied** switchboards per this specification.

4.2 PAYMENT

- A. **Pay Item No. 262413-A**
 - 1. 2,000A 277/480V, 4W, 3PH Switchboard with three 700A breakers and one 50A breaker, LS

END OF SECTION

THIS PAGE INTENTIONALLY LEFT BLANK



- LEGEND**
- PROPERTY LINE
 - EXISTING UTILITIES**
 - W — WATER
 - SS — SANITARY
 - SD — STORM
 - G — GAS
 - OHE — OVERHEAD ELECTRIC
 - UGE — UNDERGROUND FIBEROPTIC

OWNER SUPPLIED SWITCHBOARD 'MSB' ON 8'x14' CONCRETE PAD. SIZE OF PAD SHALL ACCOMMODATE SWITCHBOARD 'MSB', TRANSFORMER 'TLA' AND PANEL 'LA', INCLUDING ASSOCIATED WORKING CLEARANCES. REFER TO DETAIL 3/01E-02 AND SHEET 01S-01.

PADMOUNT TRANSFORMER ON CONCRETE PAD. TRANSFORMER TO BE SUPPLIED BY OWNER. CONSTRUCT PAD IN ACCORDANCE WITH AUSTIN ENERGY DETAILS AND SPECIFICATIONS.

EXISTING ABANDONED OVERHEAD POWER LINE. POWER LINE AND POLES BEING REMOVED BY AUSTIN ENERGY.

480VAC POWER TO CHILLER SKID. REFER TO DRAWING SHEET 01E-02.

TEMPORARY CHILLER, TYP. OF THREE.

EXTEND NEW PRIMARY DUCTBANK FROM EXISTING ELECTRICAL VAULT TO NEW PAD-MOUNT TRANSFORMER. COORDINATE ROUTING WITH EXISTING AND NEWLY PLANNED UTILITIES, AND AUSTIN ENERGY. DUCTBANK SHALL BE CONCRETE ENCASED AND CONSISTS OF TWO 4" CONDUITS. ALL MATERIALS SHALL BE IN ACCORDANCE WITH AUSTIN ENERGY DETAILS AND SPECIFICATIONS.

EXISTING ELECTRICAL VAULT. EXTEND NEW PRIMARY DUCTBANK FROM THIS LOCATION TO NEW PAD-MOUNT TRANSFORMER. COORDINATE WITH AUSTIN ENERGY.



CITY OF AUSTIN
FOUNDED 1839



PAUL K. DAVILA
101043
PROFESSIONAL ENGINEER
ELECTRICAL

**GENERAL PERMIT OFFICE
ELECTRICAL
SITE PLAN**

CITY OF AUSTIN STANDARD NOTES AND DETAILS

NO.	BY	DATE	REVISIONS	REMARKS
1	PD	8/30/13	ADDED OWNER SUPPLIED	
2	PD	8/30/13	RELOCATED THIRD TEMP CHILLER	

SHEET INFORMATION
 DATE AUGUST 12, 2013
 SHEET 14 OF 16
 CAD REF. NO. 01E-01

GENERAL PERMIT PROGRAM