



**Bid Number 50-00143088**

**Two (2) Year Contract for Preventative Maintenance and Repairs of Electrical Switchgear and Related Equipment for the Jefferson Parish Department of Public Works - Water**

**BID DUE: October 12, 2023 AT 2:00 P.M.**

**ATTENTION VENDORS!!!**

**Please review all pages and respond accordingly, complying with all provisions in the technical specifications and Jefferson Parish Instructions for Bidders and General Terms and Conditions. All bids must be received on the Purchasing Department's eProcurement site, [www.jeffparishbids.net](http://www.jeffparishbids.net), by the bid due date and time. Late bids will not be accepted.**

**Jefferson Parish Purchasing Department  
200 Derbigny Street  
General Government Building, Suite 4400  
Gretna, LA 70053  
Buyer Name: Doris Abraham  
Buyer Email: [DABRAHAM@jeffparish.net](mailto:DABRAHAM@jeffparish.net)  
Buyer Phone: 504-364-2690**

**Bid Specifications for Bid No. 50-00143088**

**SWITCHGEAR MAINTENANCE CONTRACT FOR THE  
JEFFERSON PARISH WATER DEPARTMENT**

Jefferson Parish Department of Public Works (Water) – Specifications for two (2) year contract for Preventative Maintenance and Repairs of Electrical Switchgear and Related Equipment.

**\*\*\*MANDATORY PRE-BID AND SITE VISIT\*\*\***

**A MANDATORY Pre-Bid Conference will be held at 9:00 A.M. on September 29, 2023 in the Jefferson Parish WB Water Plant, located at 4500 Westbank Expressway, Marrero, LA 70072. All interested parties are invited to attend.**

There will be the meeting, then a site visit for the WB Plant, then drive over to the EB Water Plant, 3600 Jefferson Hwy., Bldg.D, Jefferson, LA 70121 for that site visit.

Westbank Contact: David Mahner 504-349-5085

Eastbank Contact: Mervin Graves 504-349-4398

All bidders must attend the **Mandatory** Pre-Bid Conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the Mandatory Pre-Bid Conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.

**GENERAL CONDITIONS**

**Licenses:**

Contractor shall be NETA (InterNational Electrical Testing Association) Certified and possess a current Louisiana State Contractor's License in the major classification ELECTRICAL. Proof of certification shall be submitted with bid.

The Louisiana State Licensing Board for Contractors has confirmed that under the provisions of the Louisiana State Contractors License Law (La. R.S. 37:2150-2192) that a Louisiana State Contractor's License is not required for electrical testing and maintenance, exclusive of repairs. However, an awarding authority (Jefferson Parish) may require a license if it so chooses.

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### Bonds:

- Performance Bond is required in the amount of 50% of the contract amount and due at the signing of the formal contract.
- Payment Bond is required in the amount of 50% of the contract amount and due at the signing of the formal contract.
- An Electronic Bid Bond in the amount of 5% of the total bid price is required with bid submission. The electronic bond number shall be in the appropriate field on the electronic bid envelope. Scanned copies of bonds will not be accepted.

### 1.1 SCOPE OF WORK

These specifications cover all labor, vendor's owned consumable materials, and equipment required to perform technical appraisal, repairs, and testing for all switchgear, motors, and transformers, and related emergency repairs as needed and specified below.

1.2 The words "owner" or "Parish" refer to the Parish of Jefferson, Louisiana, acting through duly authorized governing authority, the Jefferson Parish Council.

1.3 The work consists of performing preventative maintenance and emergency repairs on the electrical switchgear, and equipment at the East and/or West Jefferson Waterworks, for a contract period of two (2) years.

1.4 Vendors are requested to submit quoted bid prices on the following main work items:

- A. Item 0010, (First year) Major Preventative Maintenance Program on All Existing Electrical Systems at East Jefferson Waterworks.
- B. Item 0020, (Second year) Major Preventative Maintenance Program on All Existing Electrical Systems at West Jefferson Waterworks.
- C. Item 0030, (Second Year) Inspection of Grounding System at Elevated Water Storage Tanks (Excluding Grand Isle).
- D. Item 0035, (Second Year) Inspection of Grounding System at Elevated Water Storage Tanks (Grand Isle Only).
- E. Item 0040, (Second Year) Related Manhole Work And Inspections As Described.
- F. Item 0050, Cost per One (1) Man-Hour for Engineering Services.
- G. Item 0060, Cost per One (1) Man-Hour for Technician Services.  
Item 0070, Cost per One (1) Man-Hour for Electrician Services.

All preventative maintenance programs are to be completed for the electrical systems as described hereinafter in these specifications and their associated plans.

1.5 Contractor shall respond to emergency callout situations within thirty (30) minutes by phone and be on site of the emergency location within ninety (90) minutes. Response and arrival times shall be clocked from the time at which the Parish places the initial phone call to the contractor. Contractor shall submit emergency call out communications information for Parish approval upon Water Department request.

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Contractor shall submit an updated list of all electrical equipment that will be used during the major preventive maintenance program for Parish approval upon Water Department request. Serial No., Model No., manufacturer's name of each equipment piece shall be included in the list. A record of maintenance and repair on each piece of equipment is to be included in order to verify that the equipment meets applicable standards.

1.6 The contractor shall complete all work outlined below within the appropriately specified period for each item from the date of written Notice to Proceed to be issued by the Parish during the two (2) year contract period as follows:

- A. Item No. 0010 - (First Year) within 150 consecutive days.
- B. Item No. 0020 - (Second Year) within 120 consecutive days.
- C. Item No. 0030 - (Second Year) within 50 consecutive days.
- D. Item No. 0035 - (Second Year) within 10 consecutive days.
- E. Item No. 0040 - (Second Year) within 60 consecutive days.

However, contractor shall submit time schedule for each item for Parish approval.

The work shall commence within ten (10) days after the Notice to Proceed for the respective item is issued.

If the contractor continually fails to perform work to the satisfaction of the Parish, then the Parish reserves the right to cancel the contract, readvertise, and rebid this contract. Also, "On-Call" periodical electrical switchgear emergency services shall be required at any time during the period of the contract and will be applied to East Jefferson and West Jefferson Waterworks, respectively. The above completion times cover the time needed for preparing a final report describing all the services, inspections, and recommendations of all work performed for submittal to the Parish.

1.7 The lowest responsible bid on all items will be awarded to only one contractor, unless otherwise specified.

1.8 Neither the final payment nor any provision in the contract documents shall relieve the contractor of the responsibility for negligence or faulty materials, equipment, or workmanship, and upon written notice he shall remove any defects due thereto and pay for any damage due to other work resulting therefrom which shall appear within one year after date of completion and acceptance of any repair task performed during the contract period. The warranty period for the work covered by each such task shall commence upon the completion of work covered by the particular task and the acceptance of the Parish thereof and shall expire one (1) year after such date.

1.9 Emergency work items that the contractor may be called for by the Parish and are to be done by him during the contract period will be considered for payment unless these work items fall under work correction as per item 1.8 above.

1.10 Price per service cost quoted is to include all matters of charges, i.e. travel time, labor, dismantling electrical components, analysis, testing, evaluation, and preparation of reports recommending repairs needed. Hourly rates shall commence once on job site. There will be no extra charges for things such as mileage, fuel, etc. Please include all incidental costs in hourly rate.

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1.11 In general the regular work day schedule of hours between 7 A.M. and 5 P.M. (for a total of 8 regular hours) each day, Monday through Friday will prevail as straight time; overtime will be those hours after straight time of working days, weekends, and established declared legal holidays.

The contractor shall provide qualified personnel for electric service, and also be subject to call out on short-notice at any time on any day during the contract period, regardless of weather conditions.

The contractor shall have two (2) contact employees, one primary and one backup, on a 24-hour basis available to coordinate work initiation.

Contractor shall be paid for overtime rate, if called for service on weekends, holidays, or overtime basis. All overtime rates shall be 1.5 times the regular base rates after straight time of working days, on Saturdays, on Sundays, and Holidays.

1.12 Contractor shall submit a report after each inspection or preventative maintenance program to evaluate the magnitude of the repair work and the corresponding cost.

1.13 The contractor shall cooperate with the Parish and schedule his work around the plant production demand. This requires that part of the preventive maintenance work be performed during night time hours (during the specified period of work completion of the preventive maintenance program). Also, coordination shall be required to minimize the shutdown of the operations of Plant equipment.

1.14 Repair materials that are used on the job shall be paid at the contractor's actual face value cost. Related third party invoices shall be attached to the contractor's billing invoice for payment. Invoices will be checked and verified for accuracy and compliance with the terms of this contract.

1.15 Contractor shall cooperate fully with Parish personnel who may be assigned to observe the contractor's work performance.

1.16 All payment requests or invoices must be forwarded to the Parish for approval. Payment shall be made through standard purchase requisitions upon receiving the corresponding endorsed contractor's invoices for all work completed and accepted in accordance with the Parish procedures on monthly basis (as a minimum).

1.17 All necessary emergency repairs that may be discovered during the inspection and testing may be performed by the contractor at his hourly rates upon approval of the Parish.

1.18 The times needed for such repairs will be excluded from the specified completion period of the main Items 0010 through 0040 above if repairs occur during the relative periods.

1.19 All work must proceed at an effective rate of service as judged by the Parish. In the case of certain significant work items, the Parish may request a detailed estimate of work time and materials if any exists and in such event contractor shall begin work only upon the written approval of said estimate. The contractor shall not exceed this estimated time and material cost without prior approval. Also, in the case of certain work items, the Parish reserves the right to make payment only upon the basis of mutually agreed upon number of hours to complete the work. Council authorization may be required to perform such significant work items.

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1.20 Parish reserves the right to stop work at any time and to withhold payment thereon, whenever in its judgment the work is not being performed properly. The Parish also reserves the right to cancel the contract if in its judgment inferior work is being repeatedly performed.

1.21 Parish reserves the option and the right to delete some of the items when circumstances arise during the contract period. In these instances, associated costs and time shall be deducted from the original contract without any penalty to be imposed on the Parish.

1.22 Jefferson Parish, its employees, and/or its appointee(s) reserve the right to audit the contractor's books at any time during the contract period for any matters relating to contractor's billing for payment by Jefferson Parish. Additionally, contractor agrees to maintain such books and records for a period of three (3) years from the date such costs were incurred by Jefferson Parish and to make those books and records available to Jefferson Parish at any reasonable time within the three-year period.

### TECHNICAL SPECIFICATIONS

#### SECTION 1

#### GENERAL REQUIREMENTS

##### 1.0 DESCRIPTION

This contract covers technical appraisals and testing to determine equipment maintenance needs. It also covers corrective maintenance work, mostly clean up and adjustments that are required to restore the designated equipment to the proper operating condition, and that can normally be done during an appraisal. In addition, the contract calls for engineering services and recommendations on additional maintenance work, repairs and overhauls that should be scheduled for subsequent shutdowns.

1.1 Contractor shall be capable of performing pre-shutdown technical appraisals and a thermographic survey of all designated equipment while they are in the operating mode. Pre-shutdown appraisals shall provide recommendation for significant repairs, overhauls or maintenance work that should be scheduled during the pending shutdown. These recommendations should identify parts and material that must be available during shutdown to avoid procurement delays.

1.2 Following the appraisal and testing work, reports shall be issued within four (4) weeks to the parish. The reports shall include:

- 1) An executive summary of principal findings and corrective work.
- 2) Recommendations on repairs, overhauls and other maintenance work that should be scheduled for subsequent shutdown. It shall be complete with listing of parts and materials. It shall also include any engineering services and recommendations on additional maintenance work.

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3) An estimated cost breakdown for each recommendation item on repairs, overhauls, and other needed maintenance work not included in the specifications. The cost breakdown shall cover all labor and materials cost related to each item with a time frame for its completions. Also equipment and material specifications shall be included.

4) Complete documentation of all test and inspection results on each significant item. Test and inspection results shall be submitted on each protective relay, each power transformer, each motor, each generator, and other equipment whenever specified.

1.3 All maintenance work shall be performed with the equipment or device de-energized from the normal power system. The Parish will open and secure all power sources. The appraisal and testing organization shall make suitable tests to assure de-energizing and install temporary protective grounds, tags, and locks, as appropriate. The appraisal and testing organization shall review their safety rules and practices with the Parish prior to start of work. National and Local safety codes shall apply.

### SECTION 2

#### 2.0 QUALIFICATIONS

2.1 Contractor shall utilize comprehensive report forms to document engineering appraisal and test results on all equipment and products. Upon completion of the work, the report forms shall be signed by the managing or supervising engineering representative and included in the final report. Report forms shall identify equipment by model number and by customer's identification number where assigned. Report form shall be suitable for reproduction on normal office copying machines. Sample forms shall be available for the Parish's review.

2.2 Testing shall be done in accordance with the manufacturer's instruction, these specifications and applicable NEMA, ASA, ANSI, IEEE, AEIC, IPCEA, ICEA, NFPA, NETA, OSHA, UL, and ASTM standards.

2.3 Contractor shall cooperate with any manufacturer's representative that may be retained by the Parish and who is on site during the appraisals and testing.

### SECTION 3

#### DESIGNATED EQUIPMENT

Electrical preventive maintenance shall be performed in accordance with the manufacturer's instruction, these specifications, and applicable NEMA, ASA, ANSI, IEEE, AEIC, IPCEA, ICEA, NFPA, NETA, OSHA, UL, and ASTM standards on all pertinent equipment (circuit breakers, motors, generators, transformers, and protective relays), indicated in the attached sets of drawings designed as:

1. Single Line Diagrams, Schematics, East Jefferson Waterworks
2. Single Line Diagrams, Schematics, West Jefferson Waterworks

The following types of equipment shall be covered under this maintenance contract:

1. All motors (15 horsepower and larger); all generator sets
2. All transformers (liquid-filled; 500KVA and larger dry-type)
3. All 13.8KV protective relays

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4. All circuit breakers (main and MCC switchgear)
5. All transfer switches (oil and SF6) medium-voltage
6. All 480V zig zag grounding transformers (liquid-filled and dry-type)
7. All 125VDC battery systems
8. All generator switchgear and protective relays
9. All metal-enclosed busways; all cables (low-voltage and medium-voltage)
11. All disconnect switches (medium-voltage)
12. All grounding systems and ground-fault protection systems

### SECTION 4 TECHNICAL APPRAISAL AND TESTING REQUIREMENTS FOR PREVENTIVE MAINTENANCE ELEMENTS

#### 4.0 GENERAL

The work elements listed herein shall be completed on all designated equipment. Other tests, checks, and, maintenance events specifically required by the manufacturers' instructions shall also be conducted and reported.

In the event some work elements are not listed herein, a list of work elements shall be prepared by the contractor and submitted to the Parish.

#### 4.1 SWITCHGEAR EQUIPMENT AND CIRCUIT BREAKER - MEDIUM VOLTAGE

4.1.1 Compare switchgear breaker and device nameplate information with the Parish's single-line diagram and report discrepancies.

4.1.2 Inspect equipment and each breaker and report damage, loose material, or contamination that must be corrected; clean where appropriate.

4.1.3 Inspect equipment location and report any unfavorable environmental conditions that must be corrected, such as excessive moisture, conduction dust, etc.

4.1.4 Check equipment for level, security to foundations, and operation of doors. Report conditions that must be corrected.

4.1.5 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.1.6 Operate drawn-out devices and racking mechanism, manually and electrically where appropriate, check operation of shutters and interlocks. Report deficiencies, adjust where appropriate.

4.1.7 Remove protective enclosures from each breaker, operate breakers manually and check operation of auxiliaries, interlocks, contact wipe and GAP clearances as identified in the manufacturer's instructions. Test each pole of each breaker for conductivity with a micro ohmmeter. Test insulation of each breaker phase-to-ground and phase-to-phase with megohmmeter. Record values, report deficiencies, clean dress contacts, and adjust where appropriate.



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- 4.1.8 Check control and heater voltage to assure conformance with requirements. Report discrepancies.
- 4.1.9 Insert breakers into positions and check positioning, operation or racking mechanism, and interlocking, both mechanically and electrically. Report deficiencies, adjust where appropriate.
- 4.1.10 Operate each breaker through all control stations. Operate all relays, sensors, and interlocking contacts manually to test operation of all circuits related to tripping of each breaker. Report deficiencies and adjust where appropriate.
- 4.1.11 Clean and vacuum all interior space.
- 4.1.12 Replace all existing air filters.
- 4.1.13 Energize control buses, make polarity and voltage checks, operate each breaker through all control stations. Operate all relays, sensors, and interlocking contacts manually to test operation of all circuits related to tripping of each breaker. Report deficiencies and adjust where appropriate.
- 4.1.14 Calibrate each protective relay per manufacturer's specification using current sources that do not require correction curves to compensate for wave shape distortion. Adjust to settings furnished by and in accordance to Parish's current records. Record values, clean where appropriate.
- 4.1.15 Test each instrument and meter for proper operation, correct rotation, and circuitry. Instruments and meters energized from instrument transformer shall be tested at transformer secondary level. Report deficiencies, clean where appropriate.
- 4.1.16 Power factor test each breaker pole and the primary bus in accordance with applicable standards or manufacturer's recommendations. Record values and report unfavorable conditions.
- 4.1.17 Test each current and potential transformer for ratio and polarity. Record values and report deficiencies.
- 4.1.18 Test designated instruments and meters for calibration and adjust for accuracy, traceable to standards.
- 4.1.19 Inspect the insulation system on the primary bus and assemblies. Report unfavorable conditions. Test insulation on each bus; Phase-to-Phase and Phase-to-Ground with suitable megohmmeter. Record values and report deficiencies. Clean where appropriate.
- 4.1.20 Test insulation of all control and relay circuits to ground with a suitable megohmmeter. Take suitable precautions where electronic devices, instruments, and instrument transformers are involved. Record values and report deficiencies.
- 4.1.21 Compare bolted connection resistances to values of similar connections. Bolt-torque levels should be in accordance with NETA Maintenance Testing Specifications, unless otherwise specified by the manufacturer's published data.

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4.1.22 On F60 GE UR relays at East Jefferson Water Works, verify that all inputs are properly recorded, trigger all output relays, verify breaker control scheme interlocks. Verify inter F60 relay communications

4.1.23 Switchgear communication interfaces to HMI. Verify all HMI functionality – control and monitoring. Verification of all HMI functionality is only required once during the respective East Bank and West Bank Water Plant inspections. Detail drawings are unavailable. The contractor will be responsible for performing an operational test of the HMI to verify the equipment is working as intended.

4.1.24 At East Jefferson Water Works, switchgear 125VDC battery bank “A” and battery bank “B”: Test individual cells, battery charger, and distribution circuits.

### **4.2 SWITCHGEAR EQUIPMENT, ATS, AND BREAKERS - LOW VOLTAGE**

4.2.1 Compare switchgear, breaker, and device nameplate information with the Parish’s single-line diagram and report discrepancies.

4.2.2 Inspect the equipment and each breaker and report damage, loose material, contamination that must be corrected, clean where appropriate.

4.2.3 Inspect installation location and report any unfavorable environmental conditions that must be corrected.

4.2.4 Check equipment for level, security to foundations, and operation of doors and draw-out devices. Report conditions that must be corrected.

4.2.5 Visually check the equipment ground and record the number and size of ground busses and straps. Report deficiencies.

4.2.6 Inspect the overall bus assembly, control, and meter wiring. Report unfavorable conditions. Test insulation of each bus phase-to-phase and phase-to-ground and all control circuits to ground with a suitable megohmmeter. Record values and report deficiencies, clean where appropriate.

4.2.7 Check control and heater voltage to assure conformity with requirements. Report discrepancies.

4.2.8 Check all integral breaker lifting devices for proper operation. Report deficiencies, adjust when appropriate.

4.2.9 Insert breaker into positions and check positioning, operation of racking mechanism, and interlocks. Operate breakers manually and check and adjust main and auxiliary contacts. Test each pole of each breaker for conductivity with a micro ohmmeter. Test insulation of each breaker; Phase-to-Phase and Phase-to-Ground with a suitable megohmmeter. Record values and report deficiencies, clean dress contacts, and adjust where appropriate.

4.2.10 Operate breakers electrically when appropriate. Operate each breaker through all control stations. Operate all relays and interlocks manually to test operation of all circuits. Report deficiencies, clean, and adjust where appropriate.

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4.2.11 Clean and vacuum all interior space.

4.2.12 Replace all existing air filters.

4.2.13 Energize the control bus and operate breakers electrically, when appropriate. Operate each breaker through all control stations. Operate all relays and interlocks manually to test operation of all circuits. Report deficiencies, clean and adjust where appropriate.

4.2.14 Adjust all breaker trips and relays to settings according to Parish current records and verify settings versus manufacturer's curves by passing controlled high test current through the breaker stubs. Record values and report deficiencies.

4.2.15 Test each instrument and meter for proper operation. Correct rotation and circuitry. Instruments and meters energized from instrument transformers shall be tested at transformer secondary level. Report deficiencies.

4.2.16 Test main switchboard current and potential transformer for ratio and polarity. Record values and report deficiencies.

4.2.17 Test designated instruments and meters for calibration and adjust for accuracy, traceable to standards. Record values.

4.2.18 Compare bolted connection resistances to values of similar connections. Bolt-torque levels should be in accordance with NETA Maintenance Testing Specifications unless otherwise specified by the manufacturer's published data.

4.2.19 Switchgear communication interfaces to HMI, PMCS, and protective relay communications. Verify all HMI functionality – control and monitoring.

### **4.3 TRANSFORMERS - LOAD CENTER TYPE - LOW VOLTAGE**

4.3.1 Compare the transformer and accessories' nameplates information with the Parish's single-line diagrams and report discrepancies.

4.3.2 Inspect transformer primary disconnect switch if furnished and report damage, loose materials, or contamination that must be corrected, clean and adjust where appropriate.

4.3.3 Inspect installation location and report any unfavorable environmental conditions that must be corrected.

4.3.4 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.3.5 Check pressure relief, fault pressure, and temperature relays and meters for functional operation. Report deficiencies, clean and adjust where appropriate.

4.3.6 On liquid-filled transformer, take an insulation sample and perform the following oil tests. Record values and report deficiencies:

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### Mineral Oil (10C/10CA/DIALA./ETC.)

Test	ASTM #
1. Dielectric Strength	D-877 or D1816
2. Water Content	D-1533
3. Acidity	D-1534/D-644/D-974
4. Color	D-1524
5. Visual Condition	D-1524
6. Specific Gravity	D-1298
7. Refractive Index	D-1807
8. Viscosity (TS)	D-445
9. Gas-in-oil analysis	D-3612

4.3.7 High-Voltage switches enclosed or open-type shall be manually and electrically where appropriate, tested for operation and adjustment. Clean and adjust where appropriate. Internal inspection of oil switches is not to be included.

4.3.8 Check key interlocks when furnished.

4.3.9 Include the following in Item 4.3.2 above:  
Internal inspection of oil switches.

4.3.10 Move no-load tap, change through all positions and test turns ratio on each tap. Record values and report deficiencies, set on appropriate tap. The latest NETA standard in effect at the time shall govern.

4.3.11 Remove access covers and report any damage or loose materials inside of tank that must be corrected.

4.3.12 Power factor test transformer high-voltage bushings and record values and report unfavorable conditions.

4.3.13 High-voltage switches enclosed or open-type shall be manually and electrically where appropriate, tested for operation and adjustment. Test insulation quality of switch Phase-to-Phase and Phase-to-Ground with megohmmeter. Record values and report conditions that must be corrected, clean and adjust where appropriate.

4.3.14 Test insulation of all control circuits to ground with a suitable megohmmeter. Record values and report deficiencies.

4.3.15 Check key interlocks when furnished.

4.3.16 Perform a comprehensive laboratory analysis on insulating liquid and issue a report. Identify inadequacies. Level transformers, if necessary, to meet EPA requirements.

4.3.17 Identify inadequacies of insulating liquid level of transformers, if necessary add insulating liquid to meet EPA requirements.

4.3.18 Compare bolted connection resistances to values of similar connections. Bolt-torque levels should be in accordance with NETA Maintenance Testing Specifications unless otherwise specified by the manufacturer's published data.

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### **4.4 SWITCHBOARDS AND MOLDED CASE BREAKERS**

4.4.1 Compare switchboard and breaker nameplate information with the Parish's single-line diagram and report discrepancies.

4.4.2 Inspect equipment and each breaker and report damage, loose material, contamination or unfavorable environmental conditions that must be corrected, clean where appropriate.

4.4.3 Check equipment for operation of doors, security of mounting. Report deficiencies.

4.4.4 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.4.5 Inspect the bus assembly for deficiencies. Clean where appropriate.

4.4.6 Inspect each breaker, operate manually and electrically where appropriate, test shunt trips, under-voltage or alarm devices manually. Record values and report deficiencies, clean dress contacts, and adjust where appropriate.

4.4.7 Clean and vacuum all interior space. Replace all air filters.

4.4.8 The following shall be included in Item 4.4.5 above. Test insulation of each bus Phase-to-Phase and Phase-to-Ground with a suitable megohmmeter. Record values and report deficiencies.

4.4.9 The following shall be included in Item 4.4.6 above. Test shunt trips, under voltage or alarm devices, electrically test insulation of each pole with suitable megohmmeter.

### **4.5 OPERATOR CONTROL AND RELAYING PANELS - BENCHBOARDS**

4.5.1 Compare all items on the Parish's single-line diagrams with the panels or bench boards furnished and report discrepancies.

4.5.2 Inspect the panels and devices and report damage, loose material, or contamination that must be corrected, clean where appropriate.

4.5.3 Inspect installation location and report any unfavorable factors that must be corrected. Test hinged panels and doors for proper operation. Report conditions that must be corrected.

4.5.4 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.5.5 Functionally check equipment under simulated operating conditions (where possible) to test circuits to outgoing terminal blocks. Report conditions that must be corrected.

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4.5.6 Test insulation of all control and relay circuits to ground with a suitable megohmmeter. Take suitable precautions where electronic devices, instruments, and instrument transformers are involved. Record values, clean where appropriate.

4.5.7 Adjust each protective relay to current settings as per existing Parish records and verify settings using test equipment approved by the relay manufacturer and using current sources that do not require correction curves to compensate for wave shape distortion. Record values, clean where appropriate.

4.5.8 Test each instrument and meter for proper operation. Instruments and meters energized from instrument transformers shall be tested at transformer secondary level. Report deficiencies, clean where appropriate.

4.5.9 Test designated instruments and meters for calibration and adjust for accuracy, traceable to standards. Record values.

### **4.6 MOTOR CONTROL CENTERS AND COMBINATION STARTERS - LOW VOLTAGE**

4.6.1 Compare the control center, starter, breaker and fuse nameplate information with the Parish's single-line diagram and report deficiencies.

4.6.2 Inspect the equipment and each starter and report any damage, loose material, or contamination that must be corrected, clean and adjust where appropriate.

4.6.3 Inspect the installation location and report unfavorable environmental conditions that must be corrected.

4.6.4 Check equipment for level, security to foundations, operation of doors, and hinged panels. Report conditions that must be corrected.

4.6.5 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.6.6 Inspect insulation of bus and assemblies. Clean where appropriate.

4.6.7 Check operation of each switch or breaker in each starter manually. Test door interlocking. Report deficiencies.

4.6.8 Check each contactor and thermal overload for proper coil size and proper operation. Report deficiencies, clean where appropriate.

4.6.9 Clean and vacuum all interior space. Replace all air filters.

4.6.10 Include in Item 4.6.6 above the following:  
Test insulation of the bus Phase-to-Phase and Phase-to-Ground and all control circuits to ground with a suitable megohmmeter. Record values and report deficiencies.

4.6.11 Include in Item 4.6.7 above the following:  
Test insulation of each unit Phase-to-Phase and Phase-to-Ground with suitable megohmmeter.

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4.6.12 Check and test all field application and motor protective relays in accordance with the manufacturer's instructions. Record values and report conditions that must be corrected, clean and adjust where appropriate.

4.6.13 Compare bolted connection resistances to values of similar connections. Bolt-torque levels should be in accordance with NETA Maintenance Testing Specifications unless otherwise specified by the manufacturer's published data.

### **4.7 BUSWAYS AND POWER CABLES**

4.7.1 Compare busway nameplate information and cable identification numbers with the Parish's single-line diagram and report discrepancies.

4.7.2 Inspect all busway and cables where possible and report damage, contamination of unfavorable environmental conditions that must be corrected, clean where appropriate.

4.7.3 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.7.4 Inspect the insulation on the buses. Test insulation of each bus Phase-to-Phase and Phase-to-Ground with a suitable megohmmeter. Record values and report deficiencies, clean where appropriate.

4.7.5 Test insulation of all cables Phase-to-Phase and Phase-to-Ground with a suitable megohmmeter. Record values and report any deficiencies or unbalanced conditions. Whenever possible, cable terminations shall be included.

4.7.6 Visually check each cable or bus for corona discharge. Report deficiencies.

4.7.7 If, in addition to the visual inspection, cables are to be touched or moved, they should be de-energized.

4.7.8 Cables in manholes should be inspected for sharp bends, physical damage, excessive tension, oil leaks, pits, cable movement, insulation swelling, soft spots, cracked jackets in nonlead cables, damaged fireproofing, poor ground connections, deterioration of metallic sheath bonding, as well as corroded and weakened cable supports, and the continuity of any main grounding system. Terminations and splices of nonlead cables should be squeezed in search of soft spots and inspected for tracking of signs of corona. The ground braid should be inspected for corrosion and tight connections. Inspect the bottom surface of the cable for wear or scraping due to movement at the point of entrance into the manhole and also where it rests on the cable supports.

4.7.9 Inspect the manhole itself for spalling concrete or deterioration of the aboveground portion. In some instances, the manhole may be equipped with drains, and these may require cleaning. In some instances, it may be necessary to pump water from the manhole prior to entrance. Do not enter a manhole unless a test for dangerous gas has been made and adequate ventilation is provided. The inspection crew should always consist of two or more persons with at least one remaining outside of the manhole.

## Bid Specifications for Bid No. 50-00143088

4.7.10 Potheads should be inspected for oil or compound leaks and cracked or chipped porcelains. The porcelains surfaces should be cleaned, and if the connections are exposed, their tightness should be checked.

4.7.11 Cable identification tags or marking should be checked.

4.7.12 Aerial Installations. Aerial cable installations should be inspected for mechanical damage due to vibration, deteriorating supports, or suspension systems. Special attention should be given to the dead-end supports to assure that the cable insulation is not abraded, pinched, or bent too sharply. Terminations should be inspected as covered in 4.7.8

4.7.13 Raceway Installations. Since the raceway is the primary mechanical support for the cable, it should be inspected for signs of deterioration or mechanical damage or if the cable jacket is being abraded or mechanically damaged. In many installations, the raceway serves as a part of the ground-fault current circuit. Joints should be inspected for signs of looseness or corrosion that could result in high resistance. The other recommendations for splices and terminations covered in 4.7.8 should also apply in this section.

### 4.7.14 MEDIUM-VOLTAGE CABLE TESTING

- A. Perform partial discharge testing on each of the cable circuits identified by site one-line drawings. Partial discharge testing shall be performed in accordance with the latest NFPA standard in effect at the time.
- B. Perform the work while the medium-voltage circuits and equipment remain in service and energized. The cable circuits shall not be disconnected or de-energized and the testing shall not expose the cables to voltages that exceed normal operating voltage.
- C. Use a frequency domain detection process incorporating a spectrum analyzer with radio frequency current transformer (RF CT) sensors. The detection system, including spectrum analyzer, RF CTs and interconnecting cable, shall have a PD detection range that at least covers the frequency range of 10khz to 300Mhz. The testing shall be performed in a manner that complies with the requirements of:
  - IEEE Standard 400-2001, IEEE Guide for Field Testing and Evaluation of the Insulation of Shielded Power Cable Systems.
  - IEEE Draft Standard 400-3 (Draft No. 5-1), Partial Discharge Testing of Shielded Power Cable Systems in a Field Environment.
  - Partial discharge testing shall be performed in accordance with the latest NFPA standard in effect at the time.
- D. Provide a comprehensive report that identifies numerically and graphically the magnitude of partial discharge detected for each circuit and each cable section tested. The report shall also provide conclusions and recommendations for corrective action as appropriate. In addition, the test report shall include the following:
  - Summary of project
  - Description of tested circuits, cable sections, test location
  - Identification of the testing organization
  - Identification of the test equipment used



## Bid Specifications for Bid No. 50-00143088

- Date work was performed
  - Identification of the person that performed the tests
- E. Personnel performing these electrical tests and inspections shall be trained and experienced concerning the apparatus and cable systems being evaluated. These individuals shall be capable of conducting the tests in a safe manner and with complete knowledge of the hazards involved. They must evaluate the test data and make an informed judgment regarding serviceability of the cable circuits tested. Each person involved in this project must be provided with and use appropriate PPE. All applicable safety codes and practices shall be followed.
- F. Perform all testing work in accordance with the applicable codes and standards of the following agencies except as provided otherwise herein:
1. InterNational Electrical Testing Association – NETA ATS latest Edition: Acceptance Testing Specifications, and/or NETA MTS latest Edition: Maintenance Testing Specifications.
  2. National Fire Protection Association – NFPA.
    - a. ANSI/NFPA 70: National Electrical Code.
    - b. ANSI/NFPA 70B: Recommended Practice for Electrical Equipment Maintenance.
    - c. NFPA 70E: Electrical Safety Requirements for Employee Workplaces.
- G. Contractor shall have a calibration program that assures all applicable test instruments are maintained within rated accuracy, and the accuracy shall be directly traceable to the National Institute of Standards and Technology (NIST). Calibration program interval shall be at a minimum of once per year.

### 4.8 ROTATING APPARATUS – MOTORS AND GENERATORS

4.8.1 Compare machine nameplate information with the current Parish's current documentation and report discrepancies.

4.8.2 Inspect each motor or generator and report damage, contamination or unfavorable environmental conditions that must be corrected, clean where appropriate.

4.8.3 Visually check frame for proper ground and record size and type of ground straps. When appropriate, check that bearing insulation systems are functioning as required. Report conditions that must be corrected, clean where appropriate.

4.8.4 Check slip rings, brushes, and brush rigging for damage, contamination, loose connections, and seating. Report conditions that must be corrected, clean and adjust where appropriate.

4.8.5 Check exciters and voltage regulators for proper operation. Report conditions that must be corrected, clean and adjust where appropriate.

## **Bid Specifications for Bid No. 50-00143088**

4.8.6 Check winding temperature detectors, bearing temperature relays, and over-speed devices for proper operation. Report deficiencies, clean where appropriate.

4.8.7 Test insulation of motor (and/or generator) stators with a suitable megohmmeter for one minute (normalizing to the base temperature). Record values, compare with other values previously recorded, report conditions that must be corrected.

4.8.8 Motors over 500 horsepower or operating at 1000 volts or higher should be subjected to an annual polarization index test (PI). The DC test voltage should be no less than nominal operating voltage. Polarization index ratios of 2 to 5 are considered acceptable for most insulation types. Test records shall be kept for comparison.

4.8.9 Measure operating power factor on all motors equal to or greater than 100 HP. Make recommendations for power factor improvements.

4.8.10 Inspect all phase motor protection monitors/relays SLA-440 ale, adjust setting and report deficiencies with recommendation for repairs or replacement.

4.8.11 Test conditions of associated batteries and starters, clean if necessary and report conditions and recommendation for repairs or replacement.

4.8.12 Check automatic transfer switch for proper operation and clean contact as necessary, whenever applicable.

4.8.13 When all items are satisfactorily checked out, start engine and run at no-load test. Check voltage regulator, engine governor, safety pressure and temperature devices gauges, and remaining instrumentation for proper operation.

### **4.9 OIL CIRCUIT BREAKERS AND/OR SWITCHES**

4.9.1 Compare the circuit breaker (switch) nameplate information with the Parish's single-line diagram (when available) and report discrepancies.

4.9.2 Inspect each breaker (switch) and report damage, loose material, or contamination that must be corrected, clean where appropriate. Internal inspection of oil switches is not to be included.

4.9.3 Inspect equipment location and report any unfavorable environmental factors that must be corrected.

4.9.4 Check equipment for level, security to foundation, operation of doors and all items field assembled, and report conditions that must be corrected.

4.9.5 Visually check the equipment ground and record the number and size of ground bus and straps. Report deficiencies.

4.9.6 Check heaters (where used) for operation, size, and connections. Report discrepancies.

4.9.7 Take an oil sample, test dielectric and neutralization. Record values and report deficiencies.

## Bid Specifications for Bid No. 50-00143088

4.9.8 Verify all electrical and mechanical adjustments and measurements of breaker (switch) and operating mechanism. Record values and report deficiencies.

4.9.9 Operate breaker (switch) electrically, record deficiencies. Adjust when appropriate.

4.9.10 Include in Item 4.9.9 above the following:  
Conduct time-motion tests per manufacturer's specifications. Record values.

4.9.11 Power factor test each breaker bushing, record values, and report unfavorable conditions.

4.9.12 Inspect the overall assembly. Report unfavorable conditions. Test insulation of each Phase-to-Phase and Phase-to-Ground with suitable megohmmeter. Record values and report deficiencies. Clean where appropriate.

4.9.13 Compare bolted connection resistances to values of similar connections. Bolt-torque levels should be in accordance with NETA Maintenance Testing Specifications, unless otherwise specified by the manufacturer's published data.

### 4.10 PROTECTIVE RELAYS AND RELATED DEVICES

The protective relays in the 13.8 KV switchgear shall be calibrated per the manufacturer's correction curves to compensate for sources that do not require correction curves to compensate for wave shape distortion. Adjust to settings furnished by and in accordance to Parish's current records. Record values, clean whenever appropriate.

### 4.11 THERMOGRAPHIC INSPECTION (INFRA- SCAN)

The following electrical equipment and systems shall undergo a comprehensive infra-scan inspection using the latest thermographic equipment:

- Circuit breakers
- Current transformers
- Panelboards
- Isolators
- Power transformers
- Capacitor banks
- Metal clad switchgear and switchboards
- Busway connections and cabling
- Rotating machines and motors
- Knife Switch Stabs
- Fuse Clips

A separate report for the above inspection shall be submitted indicating findings and relative recommendations.

## Bid Specifications for Bid No. 50-00143088

### 4.12 SYSTEM GROUND COMPLIANCE TESTING:

4.12.1 Depending on size of grounding system, use appropriate method (fall of potential, slope, intersection) to measure OHMIC value of ground system to earth. Record values and report deficiencies.

4.12.2 Verify all equipment ground terminations with respect to prime point used to establish OHMIC value in No. 4.12.1 above. Record values and report deficiencies. Grounding shall be verified on each piece of equipment tested.

#### NOTE:

- A. Certified measurements to be taken and submitted. Ground grid resistance shall not exceed 5 ohms.
- B. The testing shall utilize either an earth resistance meter and be conducted in accordance with the IEEE Standard 3-point fall of potential method or with a Clamp-on Resistance Test meter.
  1. If the 3-Point fall of potential test is utilized, the ground system must be isolated from any utility neutral connections and/or outside ground references prior to testing.
  2. If the Clamp-on resistance test is utilized, a single path must exist between the ground system and a utility reference.
- C. Notify the Owner's representatives three days prior to the scheduled testing date so they may be present at the time of testing.
- D. The grounding system shall pass either a 3-Point Fall of Potential test or the Clamp-on Resistance test. The minimum of 5 times the length of the electrode for a single rod, or 5 times the diagonal of a ground grid (10 times is desired). Contractor shall provide a plot of the curve of resistance vs. distance to the Owner. Contractor shall immediately notify the Owner's representative if the measured resistance is above 5 ohms.
- E. The Clamp-On Resistance testing shall be completed utilizing a single ground reference path between the ground system and the reference utility. This will be accomplished either through the ground conductor of a single point ground or by means of a temporary bonding jumper between the installed ground system and a utility reference, prior to any bonding to the system. Should the measurement of the resistance be less than 1 ohm to earth, contact the Owner's representative to verify that the ground system has been designed to achieve 1 ohm. If not, the reading is likely a measurement of continuity and not ground resistance.

### 4.13 METALLIC ENCLOSURE INSPECTION

4.13.1 All metallic enclosures and buildings encasing electrical equipment shall be subject to visual and mechanical inspections.

## **Bid Specifications for Bid No. 50-00143088**

4.13.2 Surface areas having corrosion and/or cracks must be identified with clear photographic views associated with recommendations for repainting, sealing, repairs, and/or replacement.

4.13.3 Compare bolted enclosure grounding connections' resistances to values of similar connections. Bolt-torque levels should be in accordance with NETA Maintenance Testing Specifications unless otherwise specified by the manufacturer's published data. Grounding shall be verified on each piece of equipment tested.

### **4.14 REPORT SUBMITTALS**

A separate report for the above inspection shall be submitted indicating findings and relative recommendations for maintenance of Switchgears for each site (East Bank and West Bank Water).



JEFFERSON PARISH, LOUISIANA  
DEPARTMENT OF WATER

EASTBANK WATER TREATMENT PLANT  
ELECTRICAL DRAWING CONSOLIDATION

AUGUST 2012



PROJECT LOCATION

AARON F. BROUSSARD - PARISH PRESIDENT  
JOHN F. YOUNG - COUNCIL CHAIRMAN  
JOSE GONZALEZ - DIRECTOR, DEPT. OF PUBLIC WORKS  
RANDY P. SCHULER - DIRECTOR, DEPT. OF WATER

PARISH COUNCIL

CHRIS ROBERTS - DISTRICT 1  
ELTON M. LAGASSE - DISTRICT 2  
BYRON L. LEE - DISTRICT 3  
LOUIS J. CONGEMI - DISTRICT 4  
JENNIFER L. SNEED - DISTRICT 5

LOCATION MAP

**CDM Smith**

1815 PONTCHARTRAIN STREET, SUITE 1300  
NEW ORLEANS, LA 70112  
TEL: (504) 388-1100

PROJECT NUMBER: 0847-93087

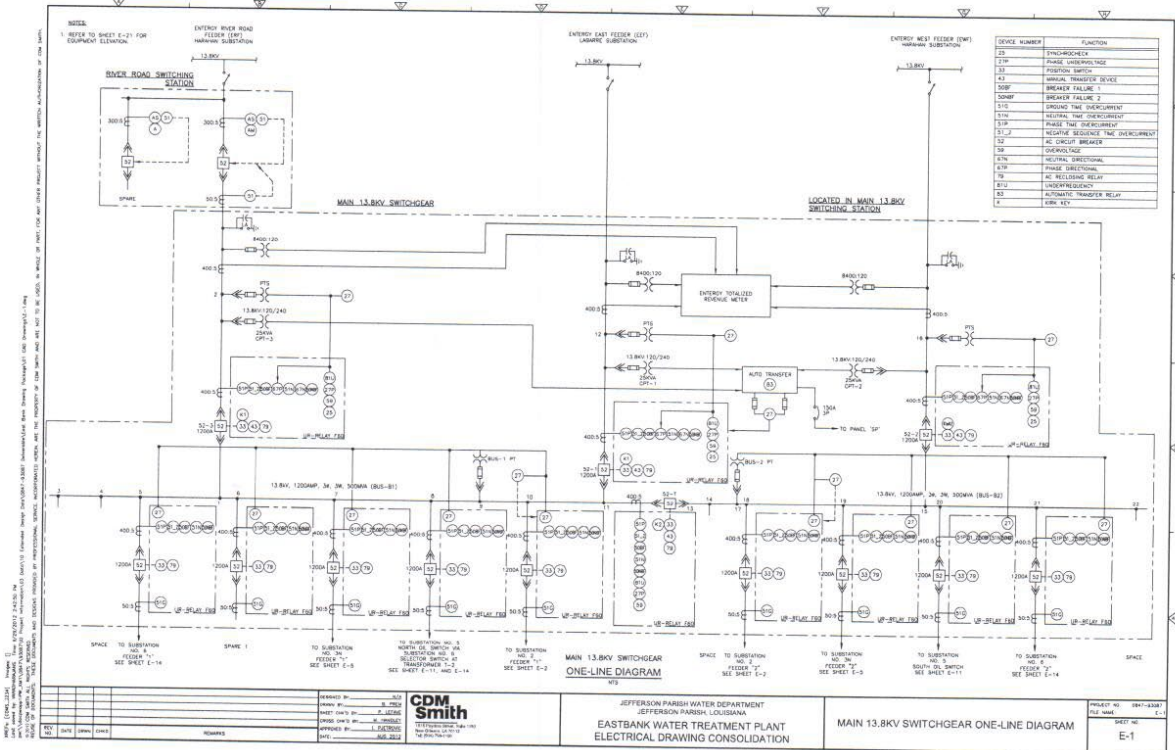


ONE-LINE	DESCRIPTION	ONE-LINE	DESCRIPTION
	OVERLOAD RELAY DEVICE (OL)		CONDUCTORS ELECTRICALLY CONNECTED
	MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING * INDICATES NEMA RATING		JUNCTION BOX
	MEDIUM VOLTAGE (EMERGENCY TYPE) POWER CIRCUIT BREAKER		KEY SWITCH INTERLOCK
	REDUCED VOLTAGE TRANSFORMER MOTOR STARTER * INDICATES NEMA RATING		TRANSFER SWITCH * AUTO = AUTOMATIC TRANSFER * M = MANUAL TRANSFER * MTR = MTR RATING
	SOLID STATE REDUCED VOLTAGE MOTOR STARTER * INDICATES NEMA RATING		GENERATOR
	MOTOR CONTROLLER		
	NON-FUSIBLE DISCONNECT SWITCH, 3 POLE * AMPERE RATING NOTED AT OTHER PANEL SHEET		
	FUSIBLE DISCONNECT SWITCH, 3 POLE * AMPERE RATING AND FUSE SIZE AS NOTED		
	MEDIUM VOLTAGE FUSED AIR INTERRUPTER SWITCH		
	TRANSFORMER, RATING & CONNECTIONS AS NOTED		
	CIRCUIT BREAKER		
	CURRENT TRANSFORMER, QUANTITY & CURRENT RATIO AS NOTED		
	CONTROL POWER TRANSFORMER, RATING & VOLTAGE RATIO AS NOTED		
	GROUND OR GROUND ROD		
	LIGHTNING ARRESTER		
	FUSE, AMPERE RATING AS NOTED		
	MOTOR OPERATED VALVE WITH INTERNAL CONTROLLER		
	MOTOR, ALUMINA INDICATES HORSEPOWER		
	CONDUCTORS ON CONDUITS CROSSING POINTS BUT NOT CONNECTED		

ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

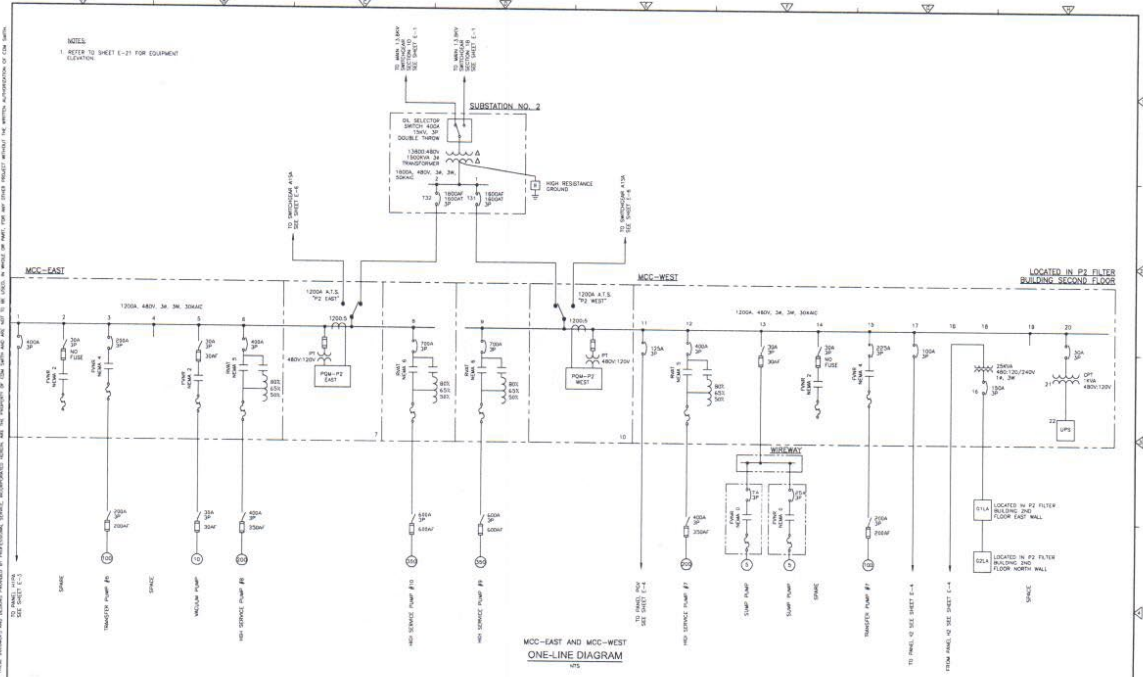
- SHEET INDEX**
- E-1 - COVER
  - E-2 - LEGEND AND SHEET INDEX
  - E-3 - MAIN 13.8KV SWITCHGEAR ONE-LINE DIAGRAM
  - E-4 - MCC-EAST AND MCC-WEST ONE-LINE DIAGRAM
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  - E-20 - CARBON BLACK FEED SYSTEM MCC-PAC-1 ONE-LINE DIAGRAM
  - E-21 - MAIN 13.8KV SWITCHGEAR MCC-EAST, MCC-WEST, SWITCHGEAR 515A AND MOTOR CONTROL CENTER MCC-515A, 517A, 517B, 517C, 512, 513 AND 514 ELEVATIONS
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  - E-24 - EASTBANK CONSOLIDATION ONE-LINE DIAGRAM

		JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA EASTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	LEGEND AND SHEET INDEX	PROJECT NO. 0847-10147 SHEET NO. G-2
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NOTES:  
 1. REFER TO SHEET E-21 FOR EQUIPMENT  
 2. REFER TO SHEET E-22 FOR EQUIPMENT  
 3. REFER TO SHEET E-23 FOR EQUIPMENT  
 4. REFER TO SHEET E-24 FOR EQUIPMENT  
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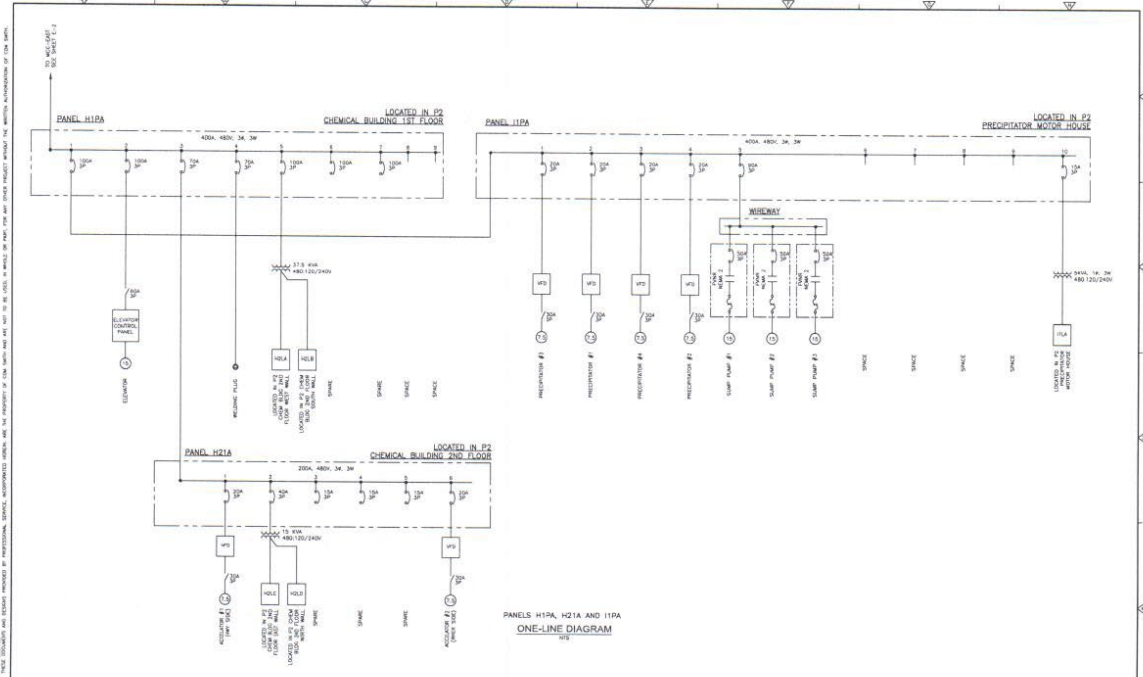
MCC-EAST AND MCC-WEST ONE-LINE DIAGRAM		PROJECT NO. 1841-10001	
DATE: 08/04/2010		SHEET NO. E-2	
DRAWN BY: J. J. SMITH		CHECKED BY: J. J. SMITH	
APPROVED BY: J. J. SMITH		DATE: 08/04/2010	



JEFFERSON PARISH WATER DEPARTMENT  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

MCC-EAST AND MCC-WEST ONE-LINE DIAGRAM

PROJECT NO. 2017-0001  
 PROJECT NAME: EASTBANK WATER TREATMENT PLANT  
 PROJECT LOCATION: JEFFERSON PARISH, LOUISIANA  
 PROJECT DATE: 12/2017  
 PROJECT ENGINEER: [Name]  
 PROJECT CHECKER: [Name]  
 PROJECT APPROVER: [Name]  
 PROJECT NO. 2017-0001  
 PROJECT NAME: EASTBANK WATER TREATMENT PLANT  
 PROJECT LOCATION: JEFFERSON PARISH, LOUISIANA  
 PROJECT DATE: 12/2017  
 PROJECT ENGINEER: [Name]  
 PROJECT CHECKER: [Name]  
 PROJECT APPROVER: [Name]



PANELS H119A, H21A AND I11PA ONE-LINE DIAGRAM

NO.	DATE	BY	CHKD	REMARKS

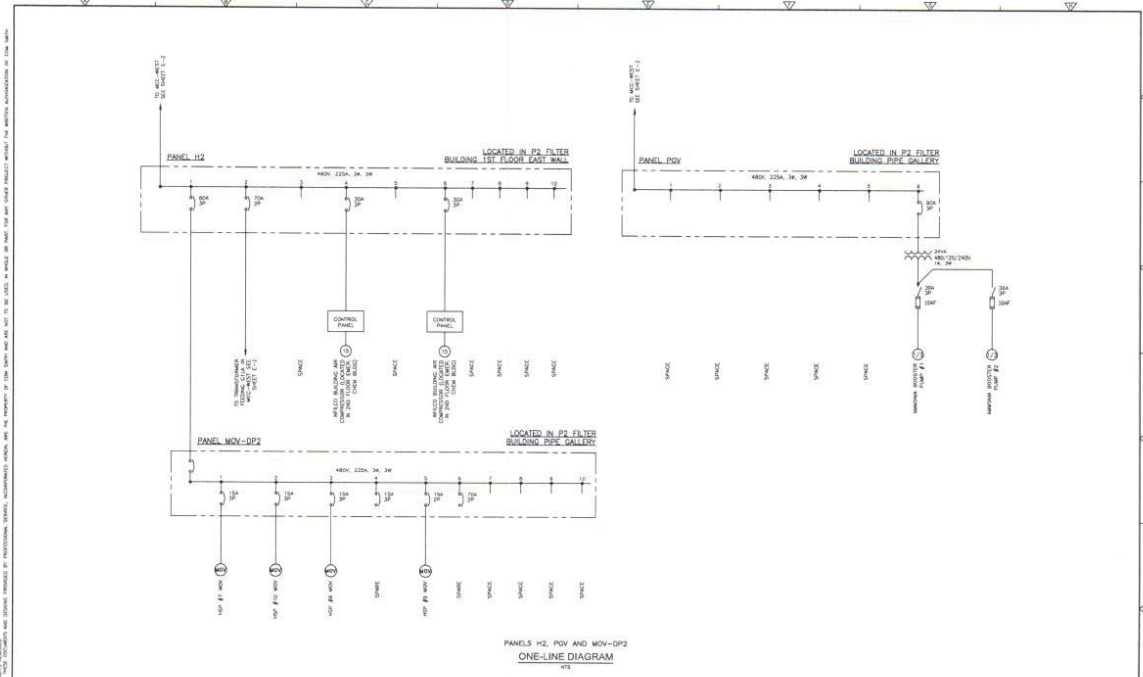
**CDM Smith**  
 CONSULTING ENGINEERS  
 1000 PINE BLVD., SUITE 100  
 MONROE, LA 70132  
 TEL: 225-335-8800  
 FAX: 225-335-8802

JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PANELS H119A, H21A AND I11PA ONE-LINE DIAGRAMS  
 SHEET NO. E-3

PROJECT NO.	2017-0001
FILE NAME	E-3

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NO.	DATE	BY	CHKD	REVISIONS

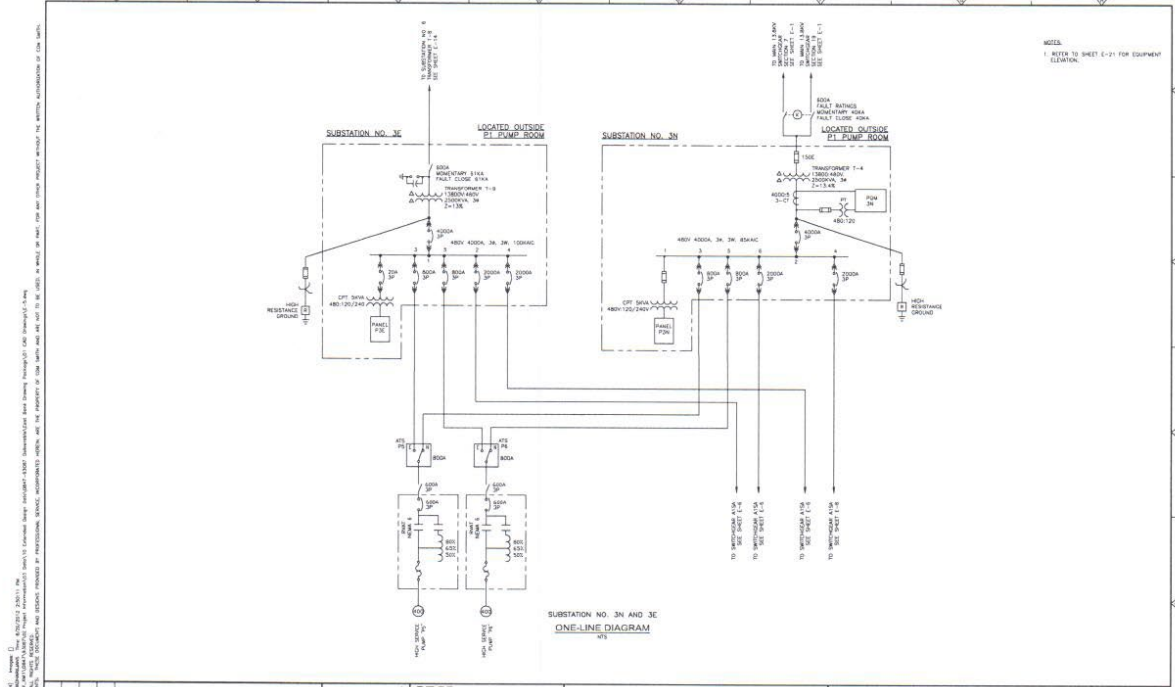
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JEFFERSON PARISH WATER DEPARTMENT  
 -JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PANELS H2, PGV AND MOV-DP2  
 ONE-LINE DIAGRAMS

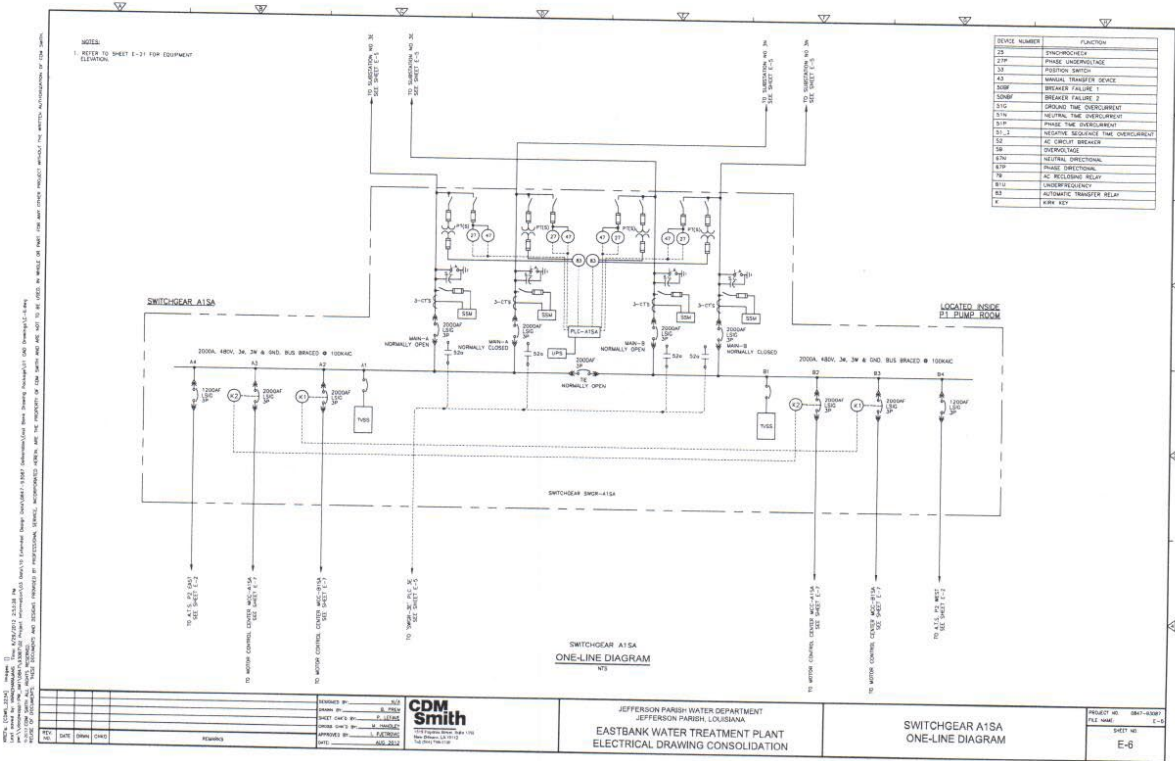
PROJECT NO.	18W-0001
SHEET NO.	E-4



SUBSTATION NO. 3N AND 3E  
ONE-LINE DIAGRAM

<table border="1"> <tr><td>NO.</td><td>DATE</td><td>REVISION</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	REVISION													REVISIONS: NO. DATE BY REVISION 1 08/11/11 JMS 2 08/11/11 JMS 3 08/11/11 JMS 4 08/11/11 JMS 5 08/11/11 JMS 6 08/11/11 JMS 7 08/11/11 JMS 8 08/11/11 JMS 9 08/11/11 JMS 10 08/11/11 JMS 11 08/11/11 JMS 12 08/11/11 JMS 13 08/11/11 JMS 14 08/11/11 JMS 15 08/11/11 JMS 16 08/11/11 JMS 17 08/11/11 JMS 18 08/11/11 JMS 19 08/11/11 JMS 20 08/11/11 JMS 21 08/11/11 JMS 22 08/11/11 JMS 23 08/11/11 JMS 24 08/11/11 JMS 25 08/11/11 JMS 26 08/11/11 JMS 27 08/11/11 JMS 28 08/11/11 JMS 29 08/11/11 JMS 30 08/11/11 JMS 31 08/11/11 JMS 32 08/11/11 JMS 33 08/11/11 JMS 34 08/11/11 JMS 35 08/11/11 JMS 36 08/11/11 JMS 37 08/11/11 JMS 38 08/11/11 JMS 39 08/11/11 JMS 40 08/11/11 JMS 41 08/11/11 JMS 42 08/11/11 JMS 43 08/11/11 JMS 44 08/11/11 JMS 45 08/11/11 JMS 46 08/11/11 JMS 47 08/11/11 JMS 48 08/11/11 JMS 49 08/11/11 JMS 50 08/11/11 JMS 51 08/11/11 JMS 52 08/11/11 JMS 53 08/11/11 JMS 54 08/11/11 JMS 55 08/11/11 JMS 56 08/11/11 JMS 57 08/11/11 JMS 58 08/11/11 JMS 59 08/11/11 JMS 60 08/11/11 JMS 61 08/11/11 JMS 62 08/11/11 JMS 63 08/11/11 JMS 64 08/11/11 JMS 65 08/11/11 JMS 66 08/11/11 JMS 67 08/11/11 JMS 68 08/11/11 JMS 69 08/11/11 JMS 70 08/11/11 JMS 71 08/11/11 JMS 72 08/11/11 JMS 73 08/11/11 JMS 74 08/11/11 JMS 75 08/11/11 JMS 76 08/11/11 JMS 77 08/11/11 JMS 78 08/11/11 JMS 79 08/11/11 JMS 80 08/11/11 JMS 81 08/11/11 JMS 82 08/11/11 JMS 83 08/11/11 JMS 84 08/11/11 JMS 85 08/11/11 JMS 86 08/11/11 JMS 87 08/11/11 JMS 88 08/11/11 JMS 89 08/11/11 JMS 90 08/11/11 JMS 91 08/11/11 JMS 92 08/11/11 JMS 93 08/11/11 JMS 94 08/11/11 JMS 95 08/11/11 JMS 96 08/11/11 JMS 97 08/11/11 JMS 98 08/11/11 JMS 99 08/11/11 JMS 100 08/11/11 JMS 
NO.	DATE	REVISION														

 **CDM Smith**   CONSULTING ENGINEERS   1000 PINE BLVD., SUITE 100   METairie, LA 70002   (504) 885-8800   WWW.CDMSMITH.COM | JEFFERSON PARISH WATER DEPARTMENT   JEFFERSON PARISH, LOUISIANA   EASTBANK WATER TREATMENT PLANT   ELECTRICAL DRAWING CONSOLIDATION | SUBSTATION NO. 3N AND 3E   ONE-LINE DIAGRAMS | PROJECT NO. 0807-0007   FILE NAME: 0807-0007   SHEET NO. E-5 |



DEVICE NUMBER	FUNCTION
23	PHOTOCHECKER
27M	PHASE UNBALANCE
33	POSITION SWITCH
43	MANUAL TRANSFER DEVICE
500P	BREAKER FAILURE 1
500P2	BREAKER FAILURE 2
51C	OPPOSITE THE OVERCURRENT
51N	NEUTRAL THE OVERCURRENT
51P	PHASE THE OVERCURRENT
51-3	NEGATIVE SEQUENCE THE OVERCURRENT
52	DC SHUNT BREAKER
58	OVERVOLTAGE
67N	NEUTRAL DIRECTIONAL
67P	PHASE DIRECTIONAL
70	DC WELDING RELAY
71	UNDERCURRENT
83	AUTOMATIC TRANSFER RELAY
87	DRY KEY

NOTES:  
1. REFER TO SHEET E-21 FOR EQUIPMENT ELEVATION.

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).

NO.	DATE	BY	CHKD.	REVISION

DESIGNED BY: J. SMITH  
 DRAWN BY: J. SMITH  
 CHECKED BY: J. SMITH  
 APPROVED BY: J. SMITH  
 DATE: 06/20/14

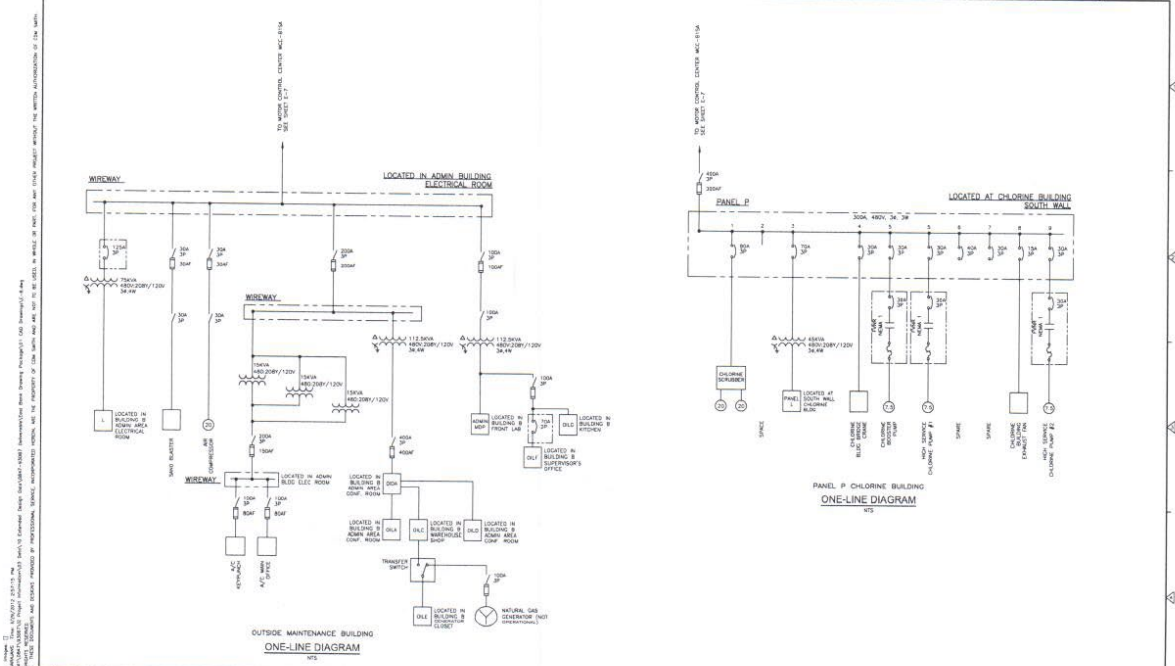


JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

SWITCHGEAR A15A  
 ONE-LINE DIAGRAM

PROJECT NO.	0601-03001
PLN. NO.	E-6
DWG. NO.	E-6





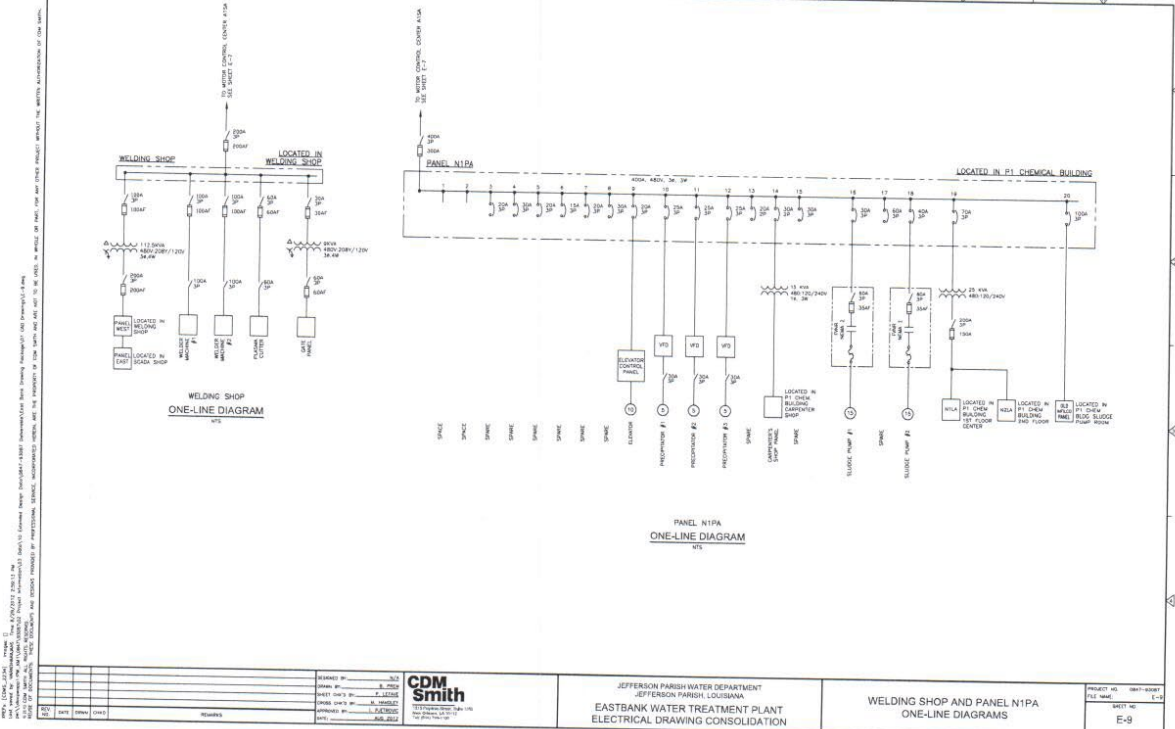
NO.	DATE	BY	CHKD	REVISIONS



JEFFERSON PARISH WATER DEPARTMENT  
JEFFERSON PARISH, LOUISIANA  
EASTBANK WATER TREATMENT PLANT  
ELECTRICAL DRAWING CONSOLIDATION

OUTSIDE MAINTENANCE BUILDING  
AND PANEL P ONE-LINE DIAGRAMS

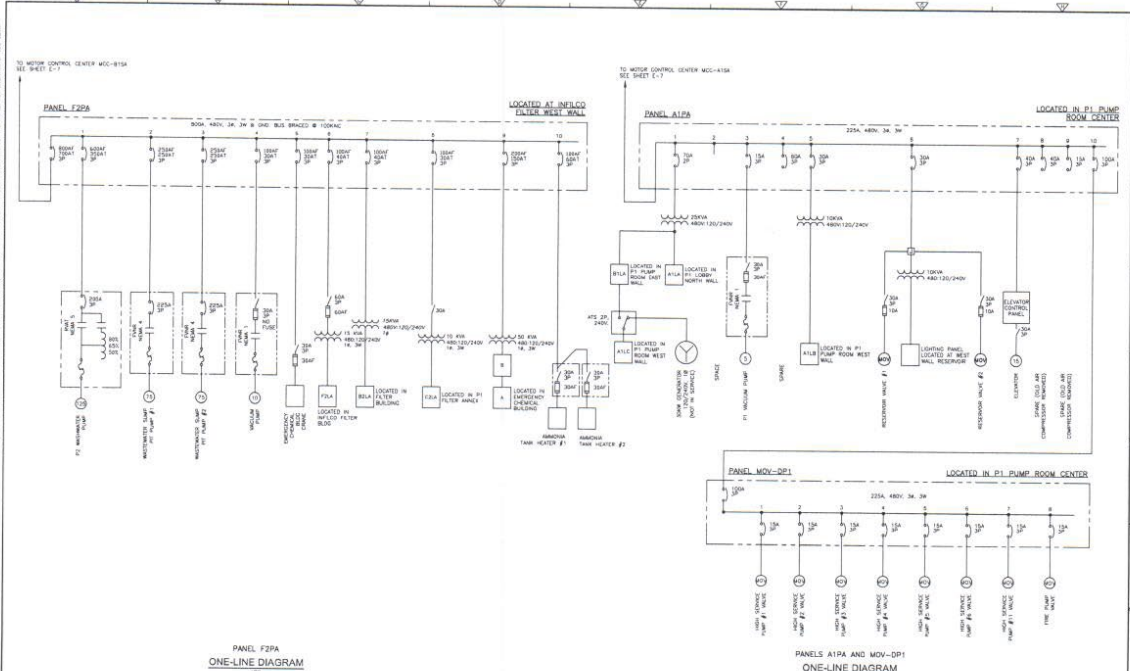
PROJECT NO.	1807-10001
SHEET NO.	E-8



NO.	DATE	BY	CHKD	REMARKS

<b>CDM Smith</b> CONSULTING ENGINEERS 1000 PINE BLVD., SUITE 200 METairie, LA 70002 TEL: 504-885-8100 FAX: 504-885-8101 WWW.CDMSMITH.COM	PROJECT NO. 10071-0001 SHEET NO. E-9 PROJECT NAME: EASTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO. 10071-0001 SHEET NO. E-9
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<b>PANEL F2PA</b> ONE-LINE DIAGRAM 4154			<b>PANELS A1PA AND MOV-DP1</b> ONE-LINE DIAGRAM 4154		
DESIGNED BY: [Name]			CHECKED BY: [Name]		
DRAWN BY: [Name]			APPROVED BY: [Name]		
DATE: 01/15/2010			SCALE: AS SHOWN		

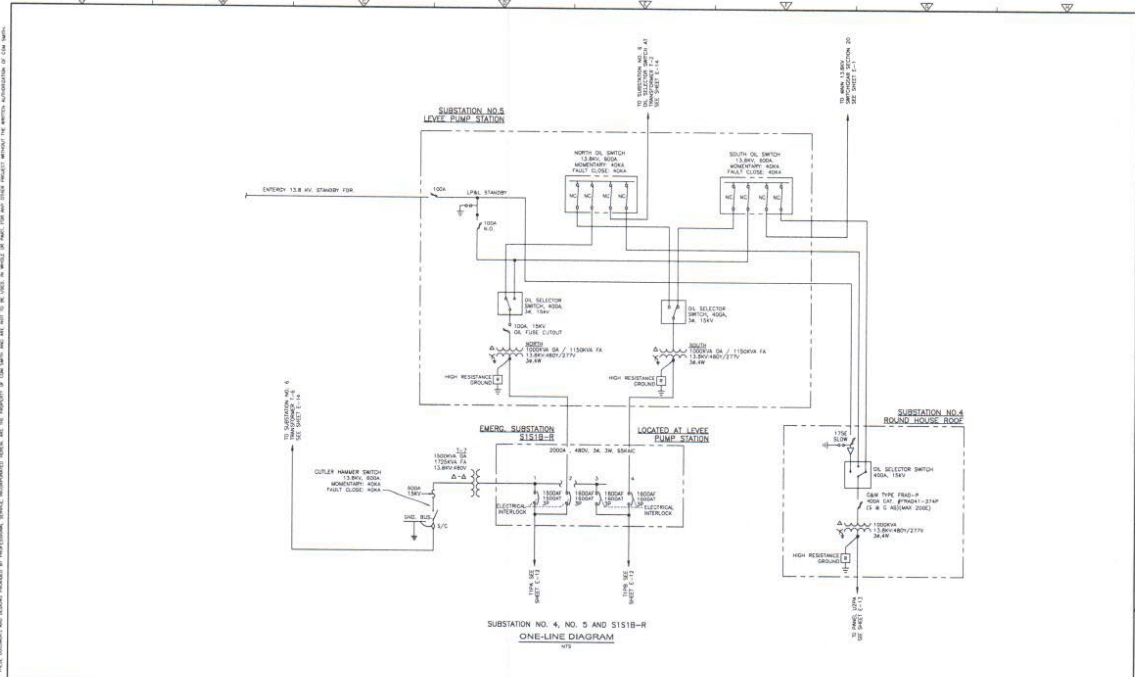


JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

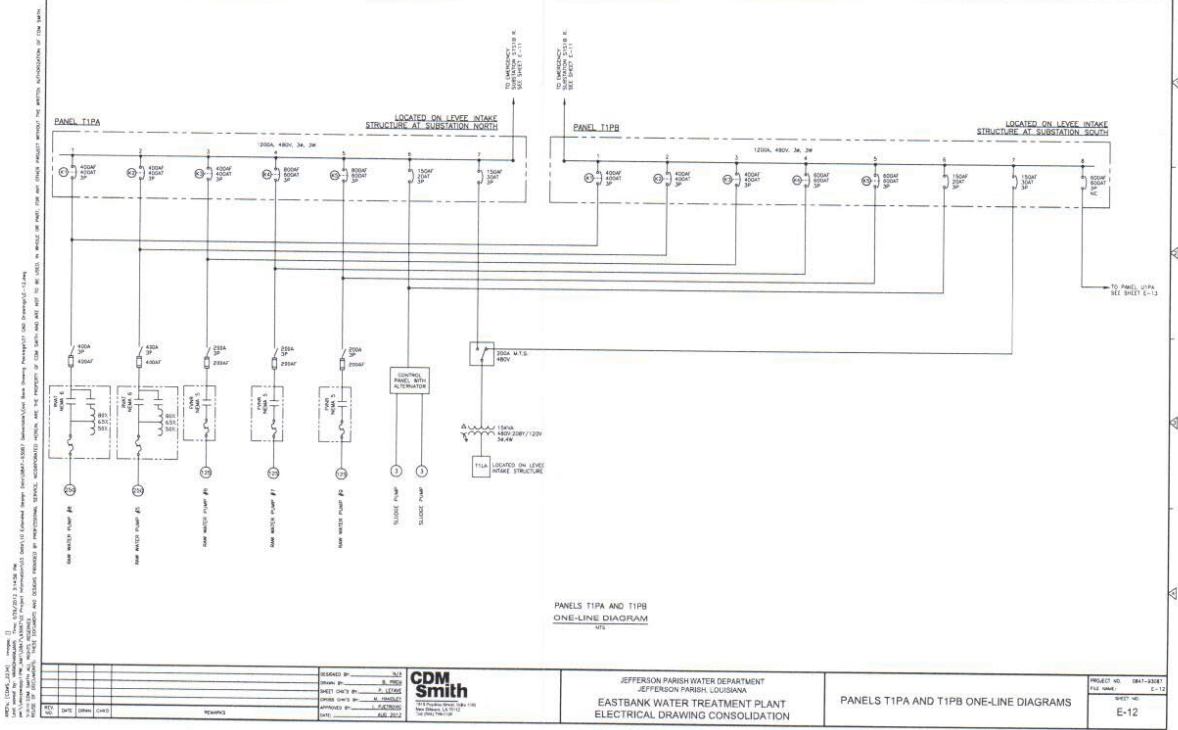
PANEL F2PA, PANELS A1PA AND MOV-DP1  
 ONE-LINE DIAGRAMS

PROJECT NO: 0807-0001  
 SHEET NO: E-10  
 E-10

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REVISION BY: JLS DATE: 8/1/08 SHEET NO. 3 OF 3 DRAWING NO. 13-000000 APPROVED BY: J. L. SMITH DATE: 8/1/08		<b>CDM Smith</b> CONSULTING ENGINEERS 1000 PINE BLVD SUITE 100 NEW ORLEANS, LA 70112	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA EASTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO. 0847-0001 SHEET NO. E-11 E-11
---	--	--	--	---



NO.	DATE	BY	CHKD	REVISION

DESIGNED BY: JLD  
 DRAWN BY: A. ROSE  
 CHECKED BY: J. LEGAS  
 APPROVED BY: J. JACOBSON  
 DATE: 11/11/11

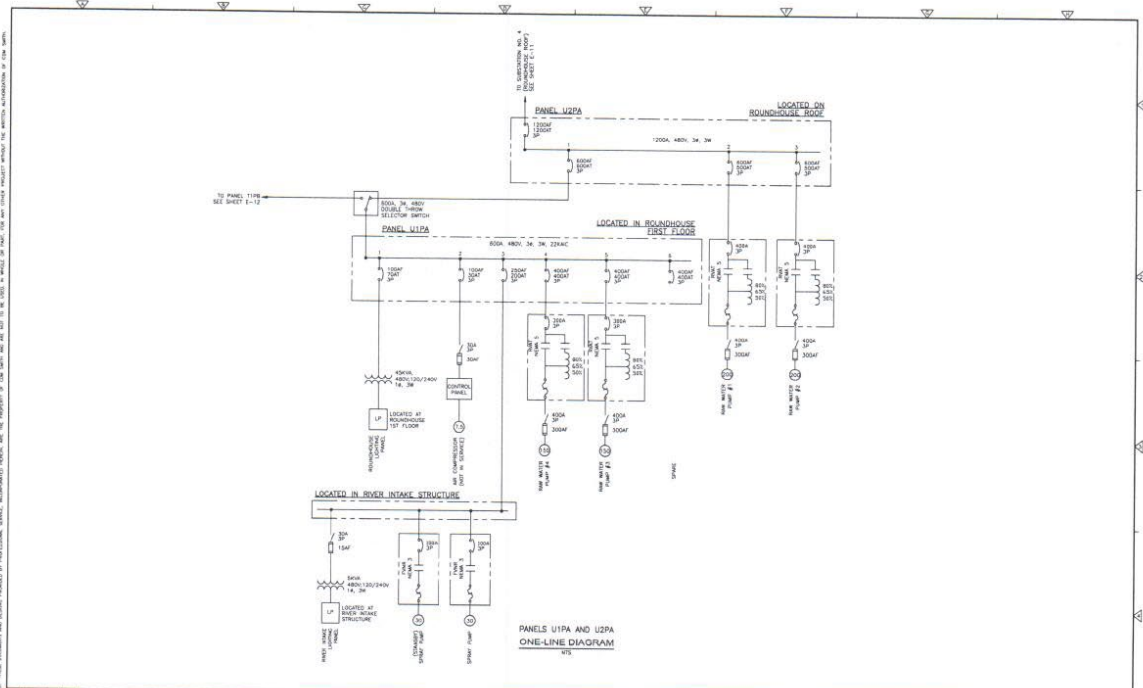


JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

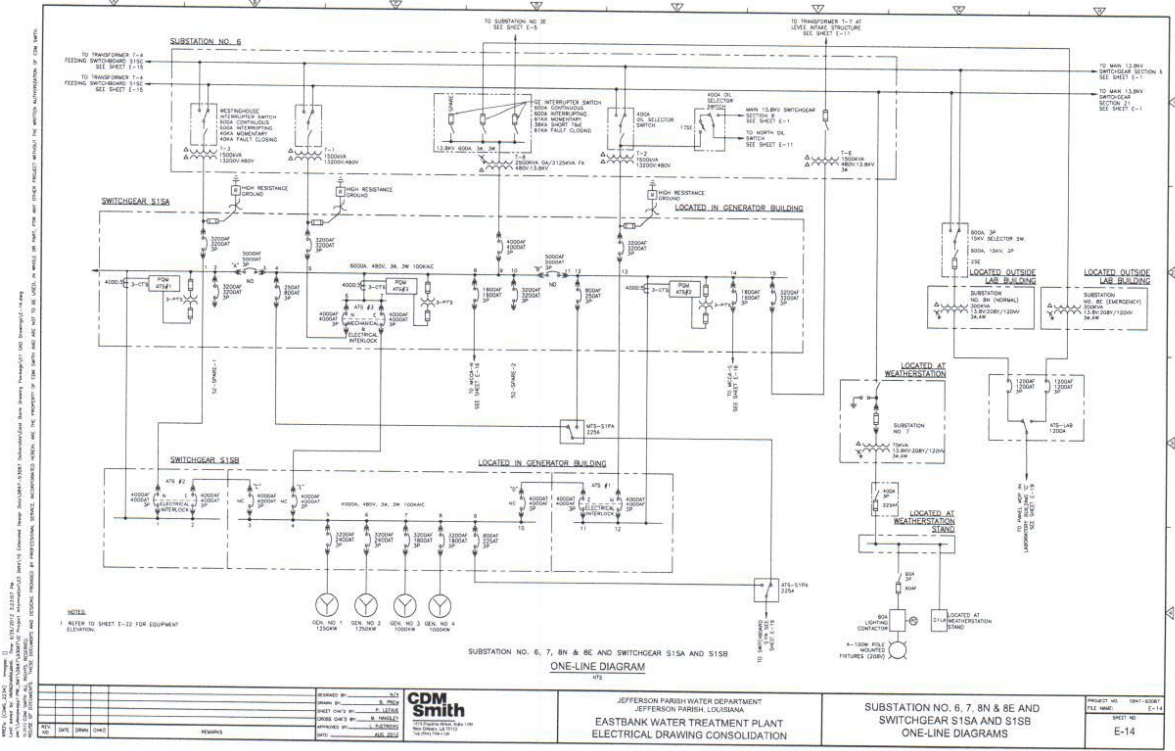
PANELS T1PA AND T1PB ONE-LINE DIAGRAMS

PROJECT NO: 1047-2041  
 SHEET NO: E-12  
 E-12

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	DESIGNED BY: J. G. BLOTT DRAWN BY: J. G. BLOTT CHECKED BY: J. G. BLOTT APPROVED BY: J. G. BLOTT DATE: 12/15/11	<b>CDM Smith</b> <small>CONSULTANTS</small>	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA <b>EASTBANK WATER TREATMENT PLANT</b> ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO: 0801-03061 FILE NAME: E-13 SHEET NO: E-13
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NOTES:  
 1. REFER TO SHEET E-22 FOR EQUIPMENT ELEVATION.

NO.	DATE	BY	CHKD	REMARKS

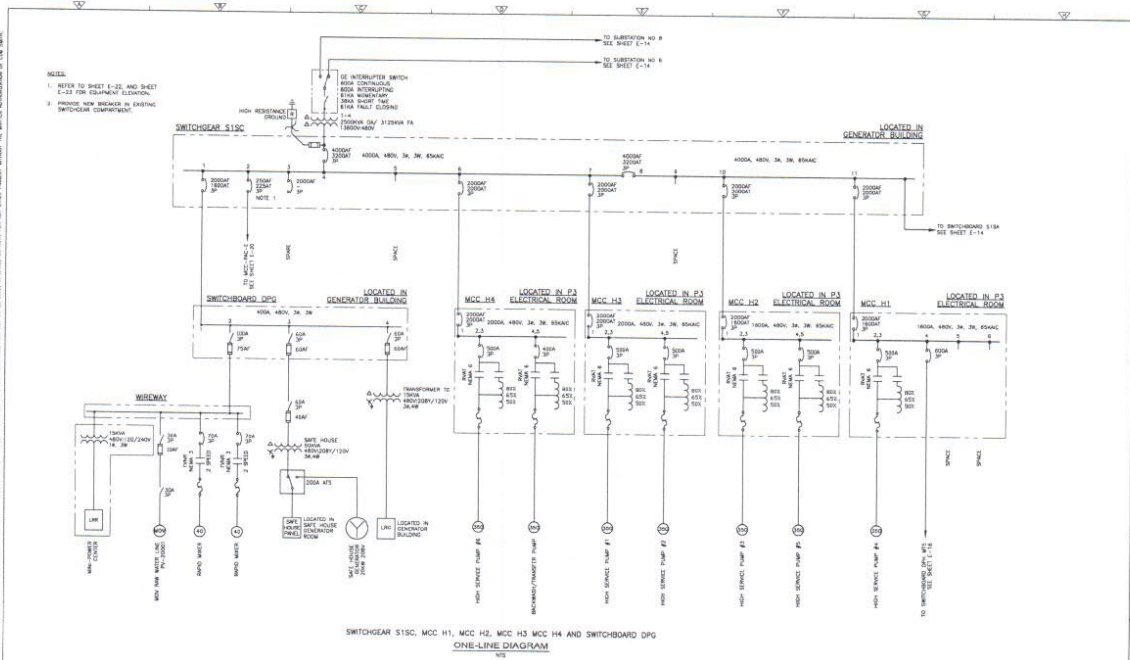
DESIGNED BY	
CHECKED BY	
APPROVED BY	
DATE	

**CDM Smith**  
 1000 PINEBLISS DRIVE, SUITE 100  
 NEW ORLEANS, LA 70112  
 (504) 581-1000

JEFFERSON PARISH WATER DEPARTMENT  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

SUBSTATION NO. 6, 7, 8N & 8E AND SWITCHGEAR S1SA AND S1SB ONE-LINE DIAGRAMS  
 PROJECT NO. 19911-00047  
 SHEET NO. E-14  
 E-14

NOTES:  
 1. REFER TO SHEET E-22 AND SHEET E-23 FOR EQUIPMENT ELEVATION.  
 2. PROVIDE NEW BREAKERS ON EXISTING SWITCHGEAR EQUIPMENT.  
 3. SEE INTERLUPTER SWITCH AREA CONTIGUOUS WITH INTERLUPTER SWITCH ROOM FOR EXTRA FULT CLEARING CAPABILITY.  
 4. 4000A 480V 3A 3M 85KAC



SWITCHGEAR S15C, MCC H1, MCC H2, MCC H3 MCC H4 AND SWITCHBOARD DPG  
 ONE-LINE DIAGRAM

NO.	DATE	BY	CHKD	REVISIONS

DESIGNED BY: JLS  
 DRAWN BY: JLS  
 CHECKED BY: JLS  
 APPROVED BY: JLS  
 DATE: 08/11/11

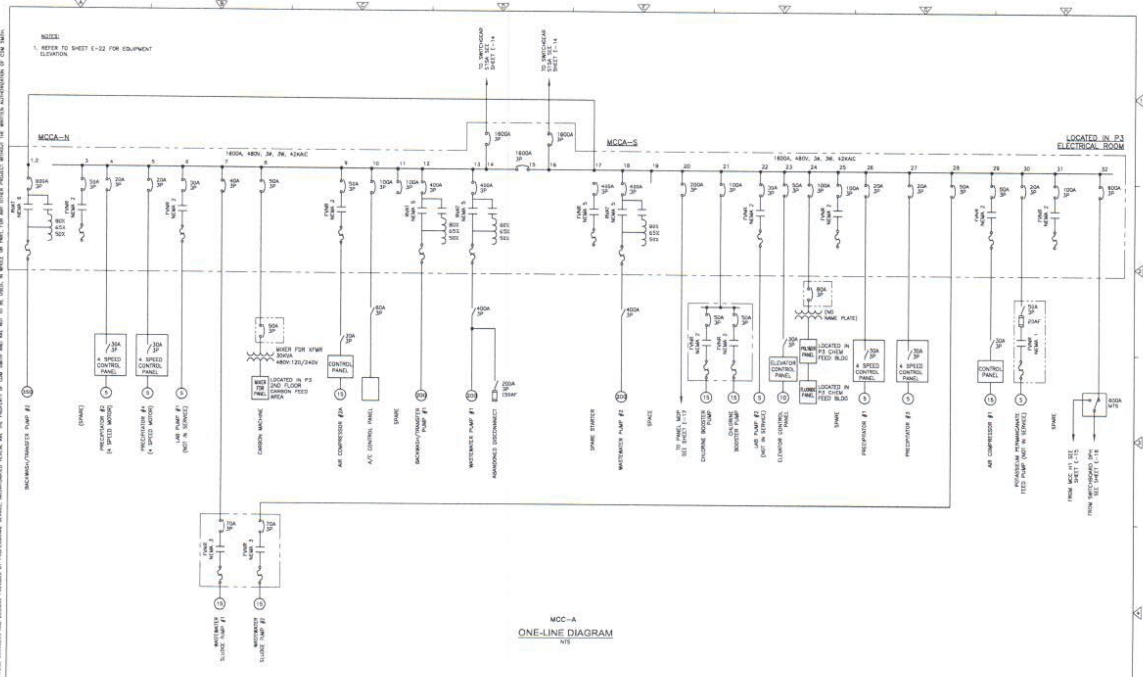


JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

SWITCHGEAR S15C, MCC H1, H2, H3 AND H4  
 AND SWITCHBOARD DPG ONE-LINE DIAGRAMS

PROJECT NO. 0947-03641  
 FILE NAME: E-15  
 SHEET NO. E-15

NOTES:  
 1. REFER TO SHEET E-12 FOR EQUIPMENT ELEVATION



NO.	DATE	BY	CHKD	REVISION

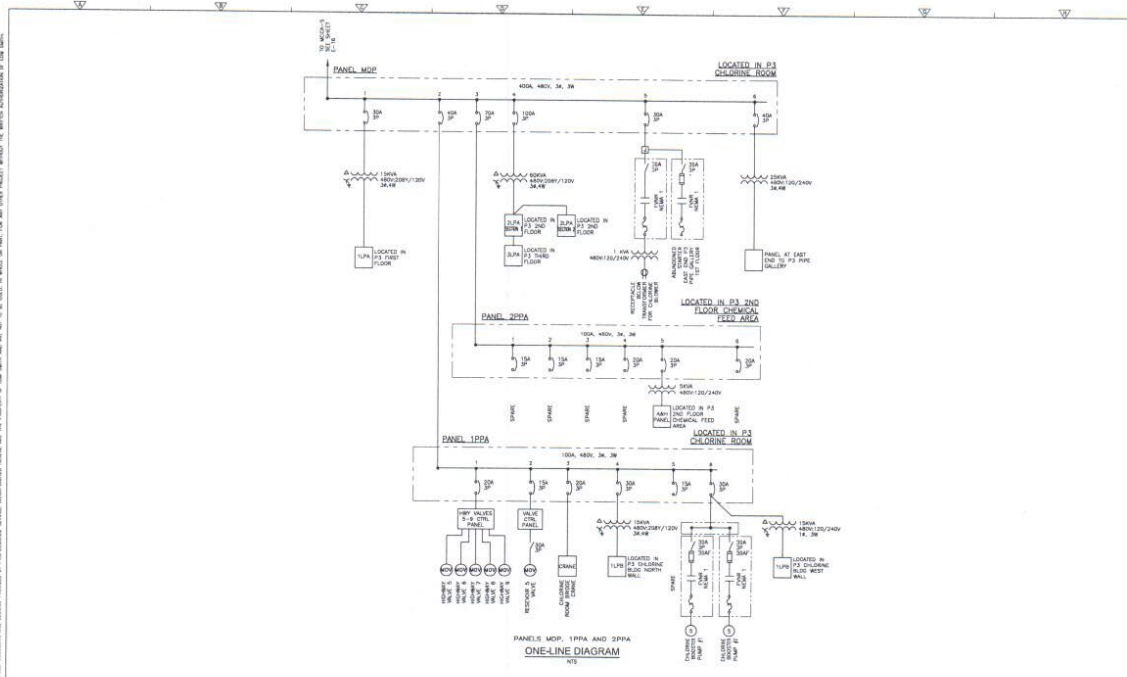
DESIGNED BY: JLD  
 DRAWN BY: B. TIGER  
 CHECKED BY: J. WATKINS  
 APPROVED BY: J. WATKINS  
 DATE: 08/11/11

**CDM Smith**  
 221 Poydras Street, Suite 2000  
 New Orleans, LA 70112  
 (504) 581-4000  
 www.cdm-smith.com

JEFFERSON PARISH WATER DEPARTMENT  
 207 PARRISH PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

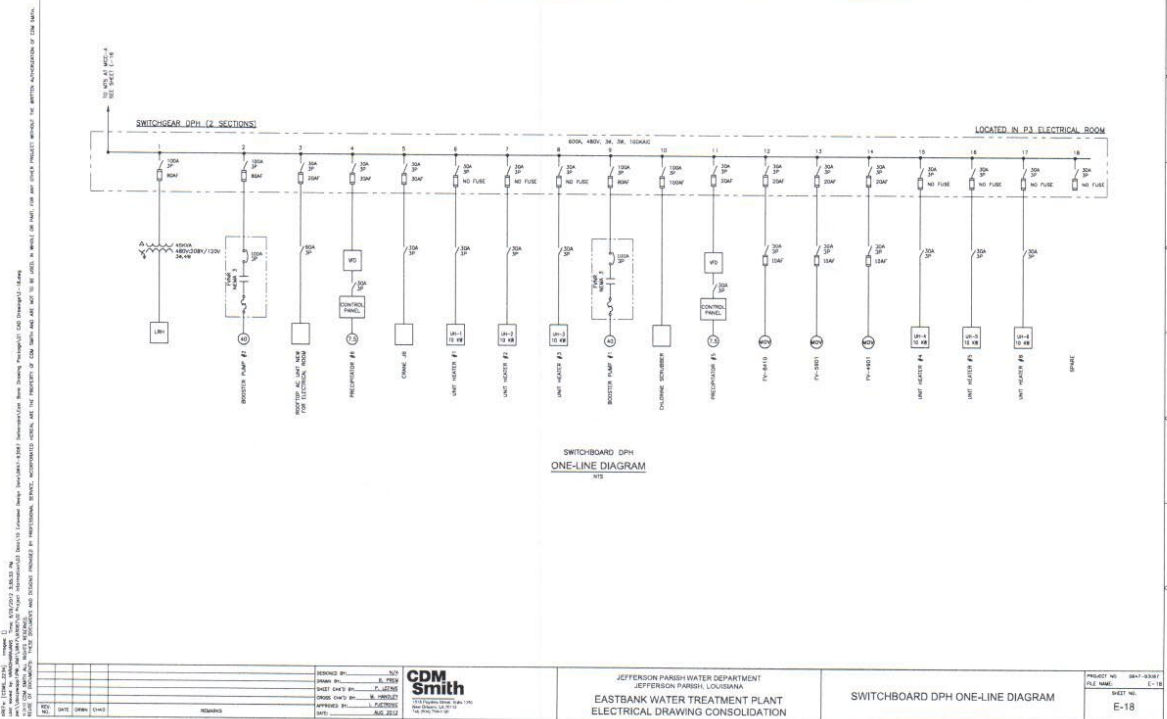
PROJECT NO. 0811-1884  
 SHEET NO. E-16  
 E-16

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REVISIONS NO. DATE BY DESCRIPTION	DESIGNED BY: J. SMITH DRAWN BY: J. SMITH CHECKED BY: J. SMITH APPROVED BY: J. SMITH DATE: 06/20/12	<b>CDM Smith</b> 1177 Poydras Street, Suite 1900 New Orleans, LA 70112	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA EASTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PANELS MDP, 1PPA AND 2PPA ONE-LINE DIAGRAMS	PROJECT NO. 08471-03047 FILE NUMBER: E-17 SHEET NO. E-17
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SWITCHBOARD DPH  
ONE-LINE DIAGRAM  
1/18

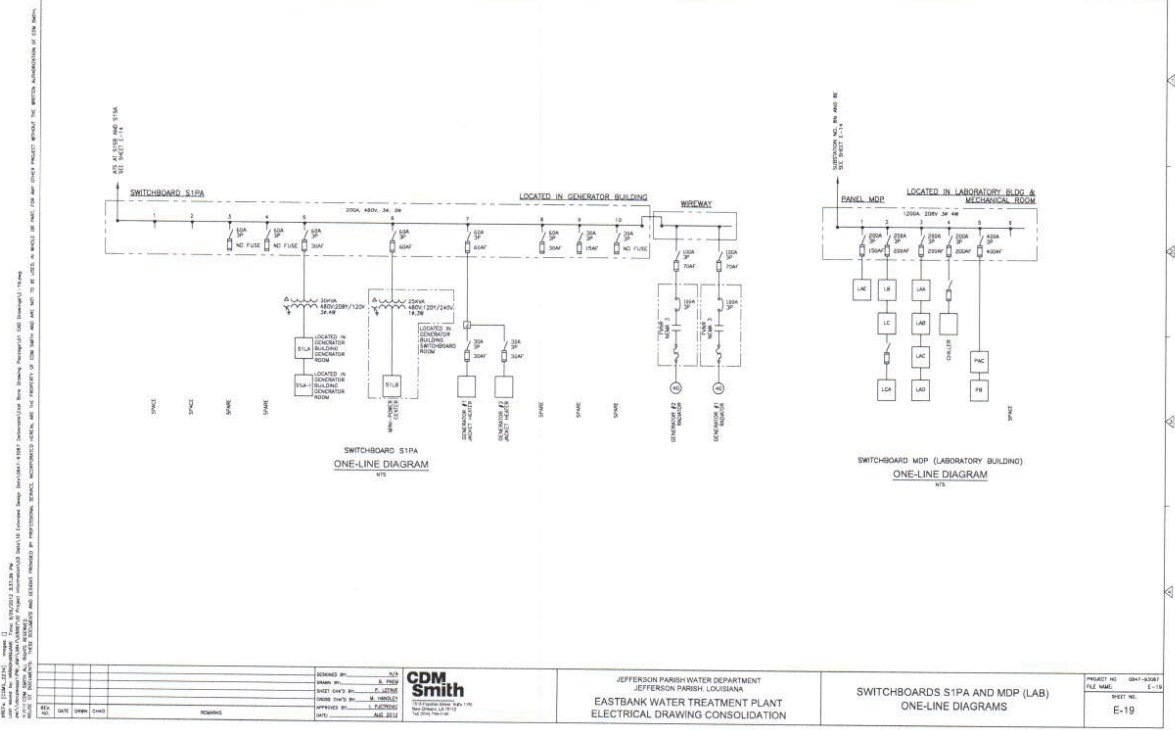
DATE	BY	CHKD	REMARKS

DESIGNED BY: J. SMITH  
 DRAWN BY: J. SMITH  
 CHECKED BY: J. SMITH  
 APPROVED BY: J. SMITH  
 DATE: 11/20/17



JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PROJECT NO.	18-11-0327
SHEET NO.	E-18
DATE	11/20/17



REVISIONS

NO.	DATE	BY	CHKD	REMARKS

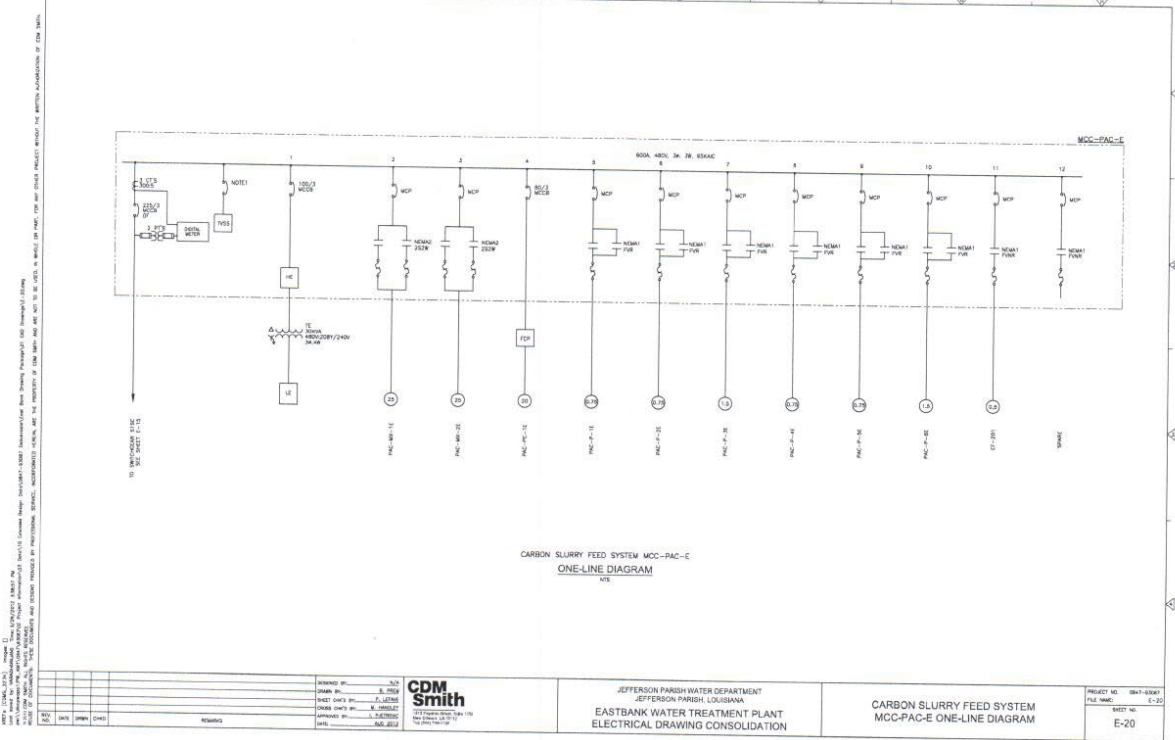
DESIGNED BY: JLD  
 DRAWN BY: R. COLE  
 CHECKED BY: J. JONES  
 ENGINEER BY: A. HARRIS  
 APPROVED BY: L. JONES  
 DATE: 08/15/11



JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

SWITCHBOARDS S1PA AND MDP (LAB)  
 ONE-LINE DIAGRAMS

PROJECT NO: 0847-03047  
 FILE NAME: E-19  
 SHEET NO: E-19



NO.	DATE	BY	CHKD	REVISION

DRAWN BY: S. J. SMITH  
 CHECKED BY: J. SMITH  
 APPROVED BY: J. SMITH  
 DATE: 11/11/11

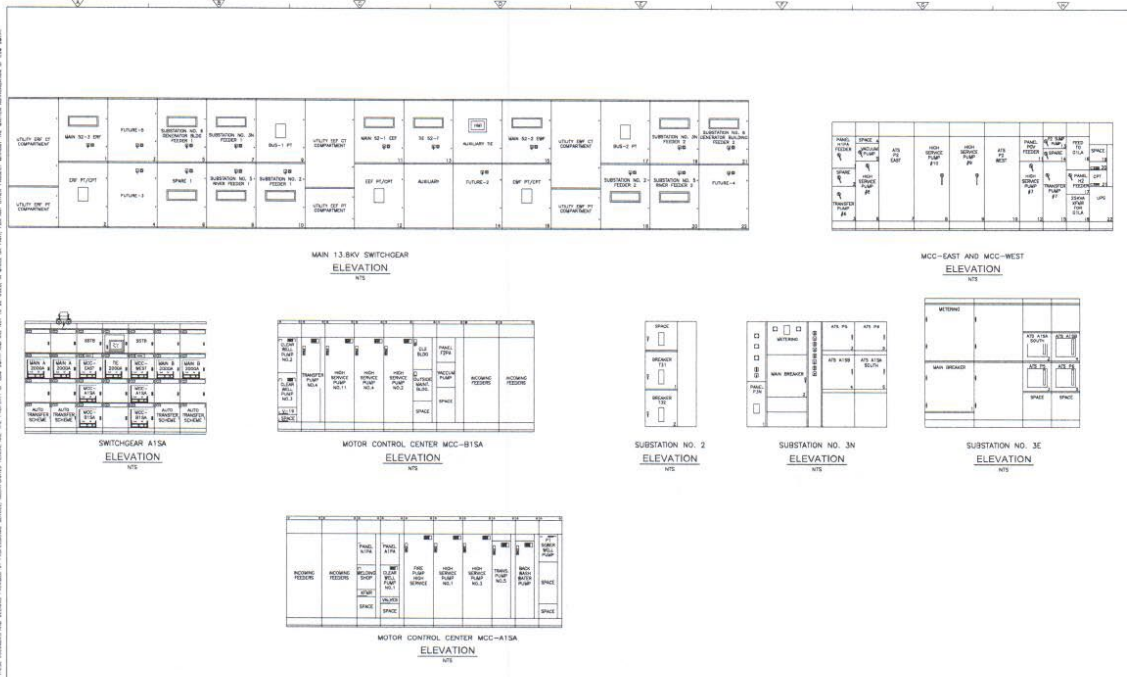


JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

CARBON SLURRY FEED SYSTEM  
 MCC-PAC-E ONE-LINE DIAGRAM

PROJECT NO.	0841-0343
FILE NAME	E-20
SHEET NO.	E-20

ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.



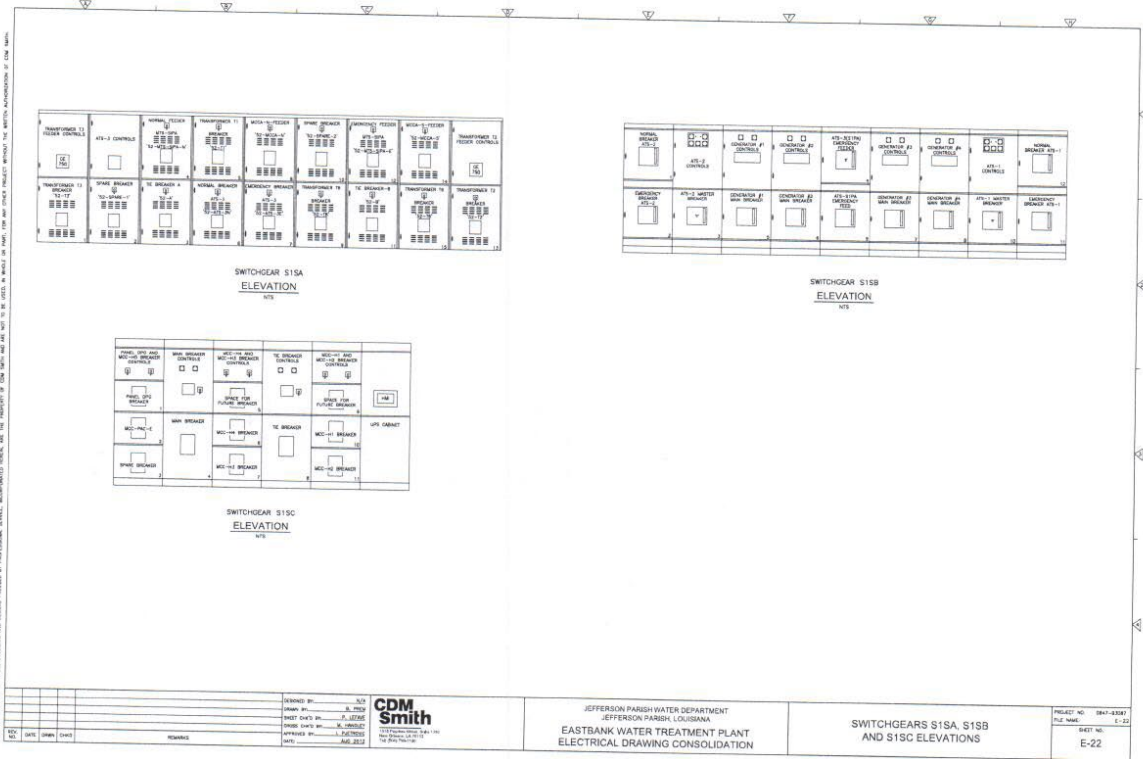
NO.	DATE	BY	CHKD	REMARKS

DESIGNED BY: JLD  
 CHECKED BY: B. TEBB  
 DRAWN BY: J. WATSON  
 PROJECT NO.: 15-000000  
 SHEET NO.: E-21

**CDM Smith**  
 1500 PINE BLVD., SUITE 100  
 METairie, LA 70002  
 (504) 885-1100  
 WWW.CDMSMITH.COM

JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

MAIN 13.8KV SWITCHGEAR, MCC-EAST, MCC-WEST,  
 SWITCHGEAR A1SA AND MOTOR CONTROL  
 CENTER MCC-A1SA, B1SA,  
 1SB, SUBSTATION NO. 2, 3N AND 3E ELEVATIONS



ALL DIMENSIONS UNLESS OTHERWISE NOTED ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. DIMENSIONS IN PARENTHESES ARE TO BE USED ONLY IF DIMENSIONS ARE NOT SHOWN. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS. THE USER SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS.

DATE	ISSUE	DESCRIPTION

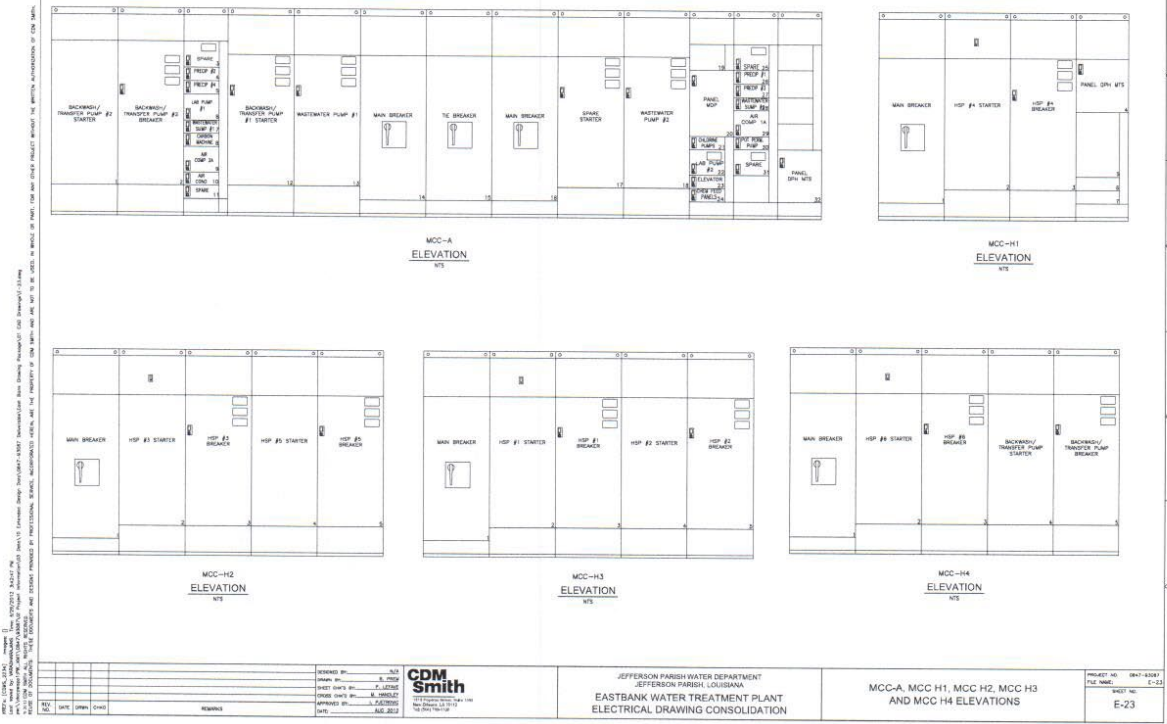
DESIGNED BY: JLD  
 CHECKED BY: R. COLE  
 DRAWN BY: J. JONES  
 APPROVED BY: L. JONES  
 DATE: AUG 2011



JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 EASTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

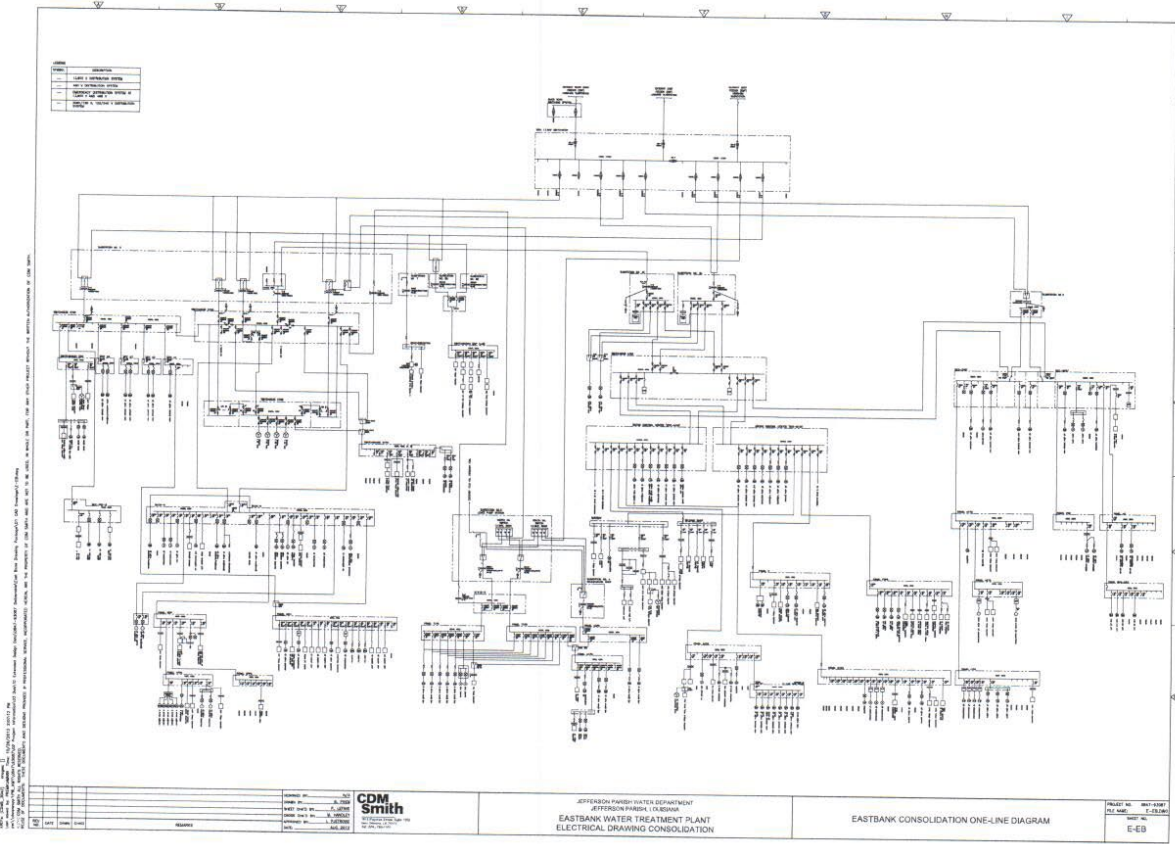
SWITCHGEARS S1SA, S1SB  
 AND S1SC ELEVATIONS

PROJECT NO.	1041-0004
PLANT NAME	E-22



ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72). THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

DESIGNED BY: JLD DRAWN BY: A. TROTT CHECKED BY: J. LESTER APPROVED BY: J. LESTER DATE: 08/20/2013	<b>CDM Smith</b> <small>CONSULTING ENGINEERS AND ARCHITECTS</small> <small>1000 Poydras Street, Suite 2000, New Orleans, LA 70112</small> <small>Phone: (504) 581-2000</small> <small>Fax: (504) 581-2001</small> <small>www.cdm.com</small>	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA EASTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO: 0841-0007 FILE NAME: E-23 SHEET NO: E-23
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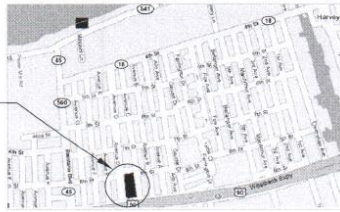




JEFFERSON PARISH, LOUISIANA  
DEPARTMENT OF WATER

# WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION

AUGUST 2012



PROJECT LOCATION

AARON F. BROUSSARD - PARISH PRESIDENT  
JOHN F. YOUNG - COUNCIL CHAIRMAN  
JOSE GONZALEZ - DIRECTOR, DEPT. OF PUBLIC WORKS  
RANDY P. SCHULER - DIRECTOR, DEPT. OF WATER

PARISH COUNCIL

CHRIS ROBERTS - DISTRICT 1  
ELTON M. LAGASSE - DISTRICT 2  
BYRON L. LEE - DISTRICT 3  
LOUIS J. CONGEM - DISTRICT 4  
JENNIFER L. SNEED - DISTRICT 5

LOCATION MAP

**CDM Smith**

1515 PONDRAIS STREET, SUITE 1350  
NEW ORLEANS, LA 70112  
TEL. (504) 792-1100

PROJECT NUMBER: 0847-23287





ONE-LINE	DESCRIPTION	ONE-LINE	DESCRIPTION
	OVERHEAD RELAY DEVICE (OR)		CONDUCTORS ELECTRICALLY CONNECTED
	AUTOMATIC MOTOR STARTER, FLA VOLTAGE INDICATED * INDICATES NEMA RATING		JUNCTION BOX
	MEDIUM VOLTAGE CIRCUIT BREAKER		KEY SWITCH INTERLOCK
	REDUCED VOLTAGE AUTO TRANSFORMER MOTOR STARTER * INDICATES NEMA RATING		TRANSFER SWITCH * AIR - AUTOMATIC TRANSFER * AIR - MANUAL TRANSFER * AIR - PUMP RATED
	SOLID STATE REDUCED VOLTAGE MOTOR STARTER * INDICATES NEMA RATING		GENERATOR
	MOTOR CONTROLLER		
	NON-FUSED DISCONNECT SWITCH, 3 POLE * AMPERE RATING NOTED * OTHER THAN 30A		
	FUSED DISCONNECT SWITCH, 3 POLE * AMPERE RATING AND FUSE SIZE AS NOTED		
	MEDIUM VOLTAGE FUSED AIR INTERRUPTER SWITCH		
	MEDIUM VOLTAGE AIR INTERRUPTER SWITCH		
	TRANSFORMER, RATING & CONNECTIONS AS NOTED		
	CIRCUIT BREAKER		
	CURRENT TRANSFORMER, QUANTITY & CURRENT RATING AS NOTED		
	CONTROL POWER TRANSFORMER, RATING & VOLTAGE RATIO AS NOTED		
	GROUND BY DESIGN, RIGID		
	LIGHTNING ARRESTER		
	FUSE, AMPERE RATING AS NOTED		
	MOTOR OPERATED VALVE WITH INTERNAL CONTROLLER		
	MOTOR, HORIZONTAL INDICATES HORIZONTAL POSITION		
	CONDUCTORS OF CIRCUITS CROSSING PATHS BUT NOT CONNECTED		

**SHEET INDEX**

- G-1 - COVER
- G-2 - LEGEND AND SHEET INDEX
- E-1 - SUBSTATION NO. 1 - 12.4KV SWITCHGEAR ONE-LINE DIAGRAM
- E-2 - SUBSTATION NO. 2 NORTH AND SOUTH AND SWITCHGEAR UTILITY 1 AND UTILITY 2 ONE-LINE DIAGRAM
- E-3 - SYNCHRONIZING SWITCHGEAR AND GENERATOR CONTROL PANEL ONE-LINE DIAGRAM
- E-4 - PANELS F7M AND F7M-NV ONE-LINE DIAGRAMS
- E-5 - PANELS E7M AND E7M-NV ONE-LINE DIAGRAMS
- E-6 - FILTER BOX PANEL ONE-LINE DIAGRAM
- E-7 - MCC-DGON AND MCC-DGOS ONE-LINE DIAGRAMS
- E-8 - PANELS E2A, E7M AND F7 ONE-LINE DIAGRAMS
- E-9 - PANELS E3M AND E1A-1 ONE-LINE DIAGRAMS
- E-10 - PANEL F1 ONE-LINE DIAGRAM
- E-11 - SWITCHGEAR E2M AND DISTRIBUTION PANEL, B02 ONE-LINE DIAGRAMS
- E-12 - MCC-DCA, MCC-CDB AND RUM-P1 ONE-LINE DIAGRAMS
- E-13 - RAW DEMAND PUMP STATION POPS-MCC-1 ONE-LINE DIAGRAM
- E-14 - PANEL POPS-P1 ONE-LINE DIAGRAM
- E-15 - SUBSTATION NO. 4 EAST AND WEST MCC-1, MCC-2, MCC-3, MCC-4 AND MCC-7 ONE-LINE DIAGRAMS
- E-16 - RAW WATER PUMP STATION - RUMS-MCC-1 ONE-LINE DIAGRAM
- E-17 - CARBON SLURRY FEED SYSTEM - MCC-PAC-1 ONE-LINE DIAGRAM
- E-18 - SUBSTATION NO. 1, 12.4KV SWITCHGEAR, SWITCHGEAR UTILITY 1 AND UTILITY 2, SYNCHRONIZING SWITCHGEAR AND GENERATOR CONTROL PANEL ELEVATIONS
- E-19 - MCC-DGON, MCC-DGOS AND POPS-MCC-1 ELEVATIONS
- E-20 - SWITCHGEAR E7M, MCC-6 AND MCC-8 ELEVATIONS
- E-21 - MCC-4, MCC-1, MCC-2 AND RUMS-MCC-1 ELEVATIONS
- E-22 - WESTBANK CONSOLIDATION ONE-LINE DIAGRAM

DATE	BY	CHKD	REVISION

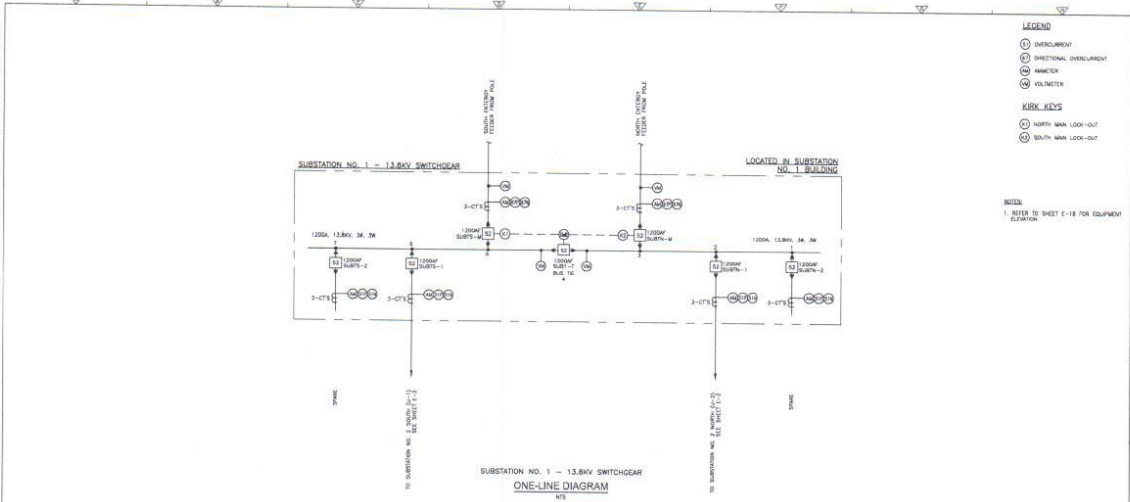
DESIGNED BY: J. J. JACOB  
 DRAWN BY: J. J. JACOB  
 CHECKED BY: J. J. JACOB  
 APPROVED BY: J. J. JACOB

**CDM Smith**  
 1000 Poydras Street, Suite 2000  
 New Orleans, LA 70112  
 (504) 581-3000

JEFFERSON PARISH WATER DEPARTMENT  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PROJECT NO: 09-11-0001  
 SHEET NO: G-2

NOTES: 1. REFER TO SHEET E-18 FOR EQUIPMENT LOCATION



- LEGEND**
- INSTRUMENT
  - INSTRUMENT OVERCURRENT
  - METER
  - VOLTMETER
- KIRK KEYS**
- NORTH MAIN LOCK-OUT
  - SOUTH MAIN LOCK-OUT
- NOTES**
1. REFER TO SHEET E-18 FOR EQUIPMENT LOCATION

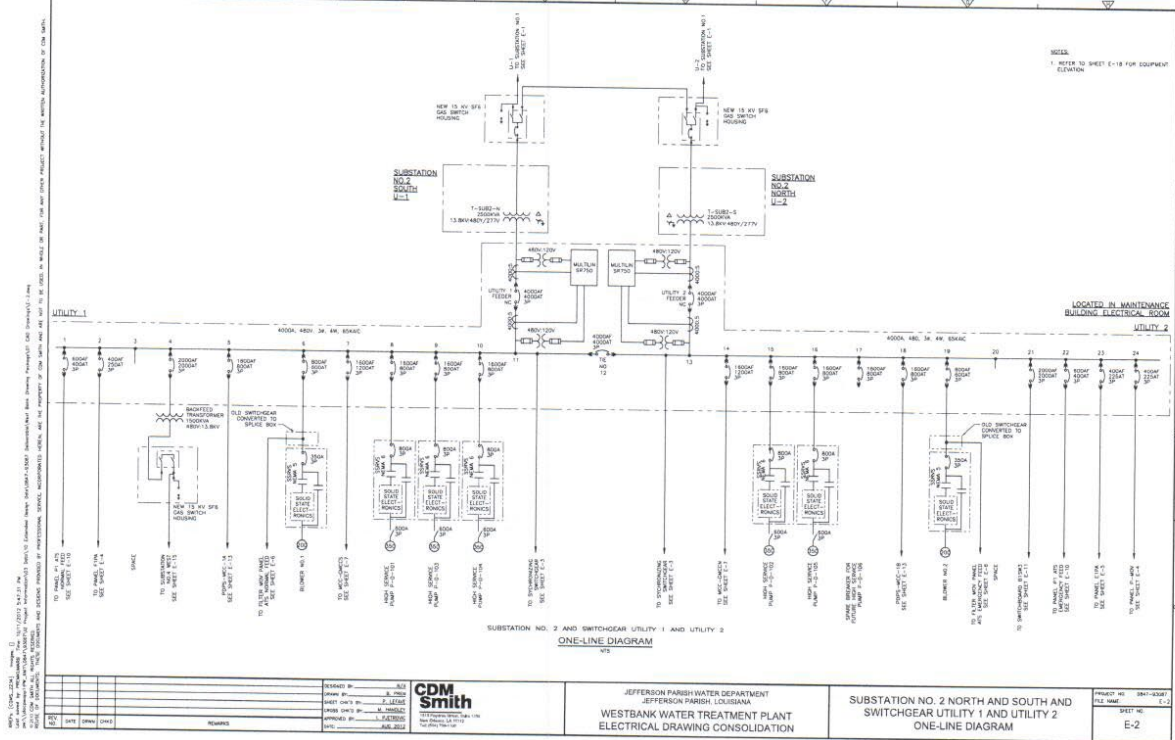
NO.	DATE	BY	REVISION

DESIGNED BY: S.T.  
 DRAWN BY: J. JONES  
 CHECKED BY: J. JONES  
 APPROVED BY: J. JONES  
 DATE: 06/20/12

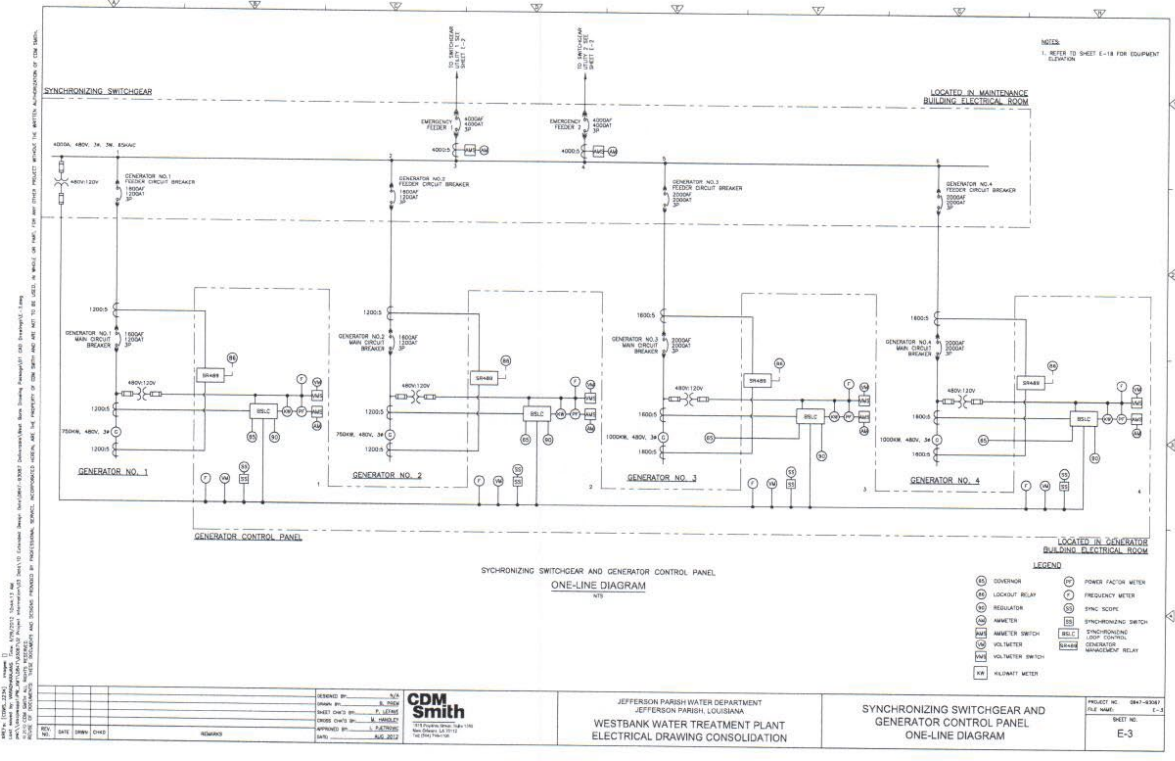
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 101 Poydras Street, Suite 2000  
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 (504) 581-4400  
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JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PROJECT NO: 0941-0201  
 FILE NAME: E-1  
 SHEET NO: E-1



REVISIONS NO. DATE BY		DRAWN BY: [Name] CHECKED BY: [Name] APPROVED BY: [Name]	<b>CDM Smith</b> 1177 Poydras Street, Suite 2000 New Orleans, LA 70112	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO. 0801-0304 SHEET NO. E-2 E-2
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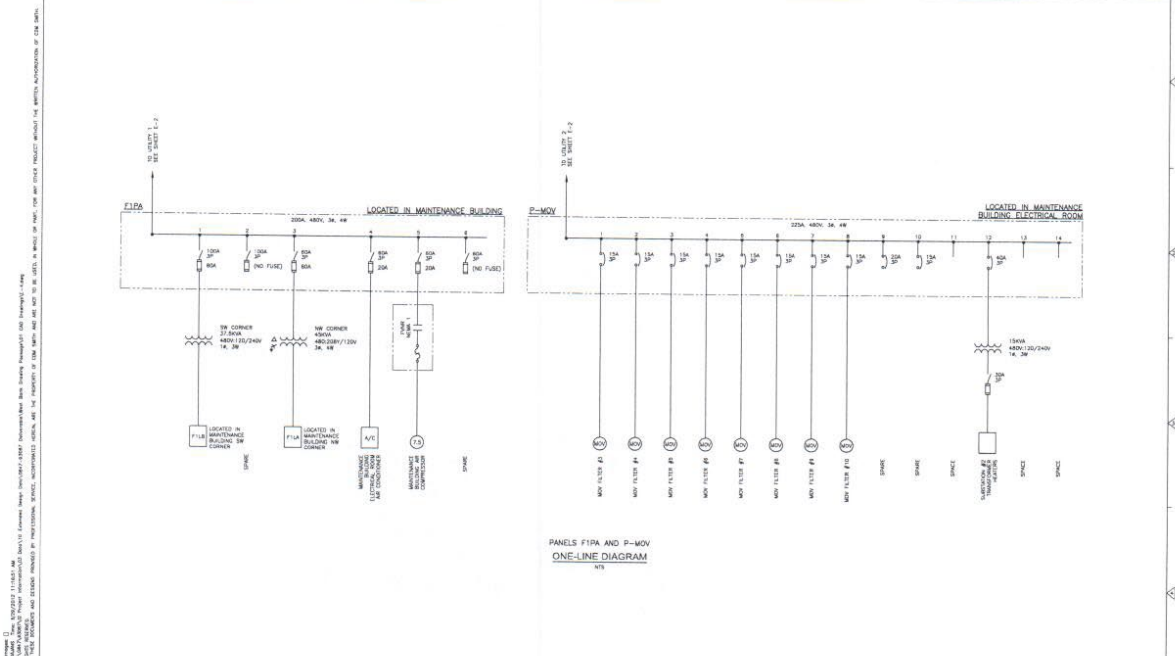
NO.	DATE	BY	CHKD	REMARKS

REVISION BY: S.J.  
 DRAWN BY: B. TROTT  
 SHEET CHECKED BY: J. LUTZKE  
 ENGINEER CHECKED BY: J. LUTZKE  
 APPROVED BY: J. LUTZKE  
 DATE: 11/11/11

**CDM Smith**  
 10000 Westbank Drive  
 Metairie, LA 70002  
 (504) 885-1100  
 www.cdm-smith.com

JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PROJECT NO: 0941-0001  
 SHEET NO: E-3  
 SYNCHRONIZING SWITCHGEAR AND GENERATOR CONTROL PANEL ONE-LINE DIAGRAM



PANELS F1PA AND P-MOV  
ONE-LINE DIAGRAM

NO.	DATE	BY	CHKD.	REVISION

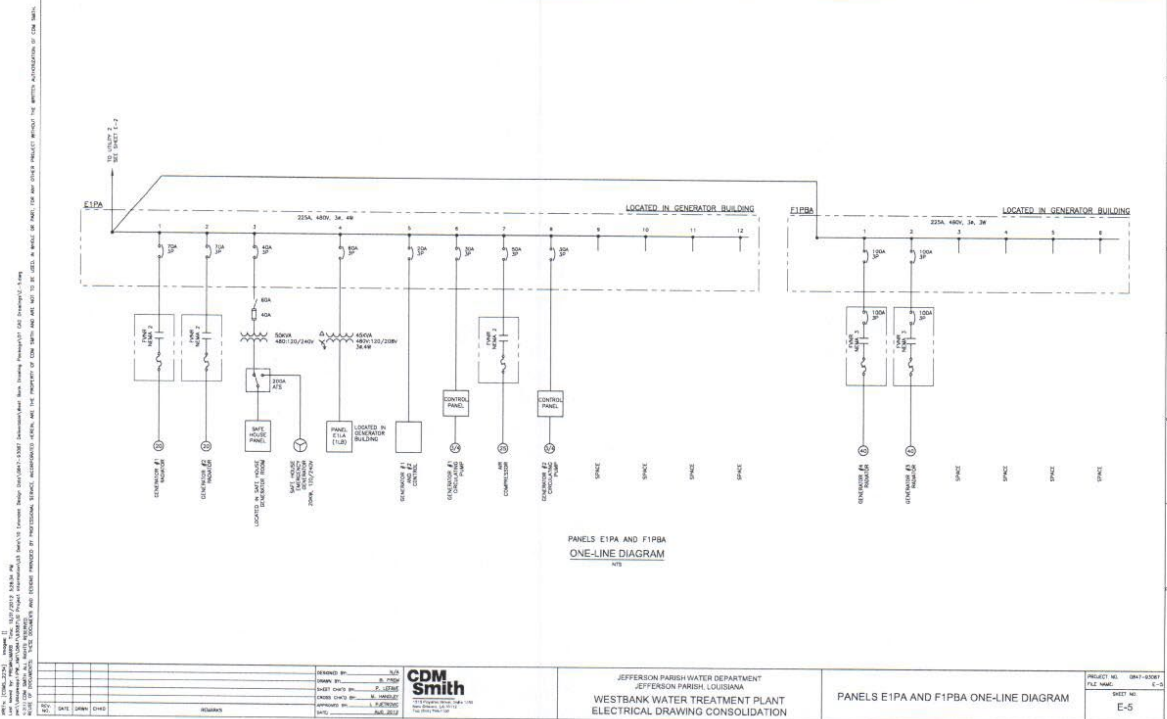
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 PROJECT NO.: 04-03-0000  
 SHEET NO.: E-4  
 DATE: 04/20/04



JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PANELS F1PA AND P-MOV ONE-LINE DIAGRAM

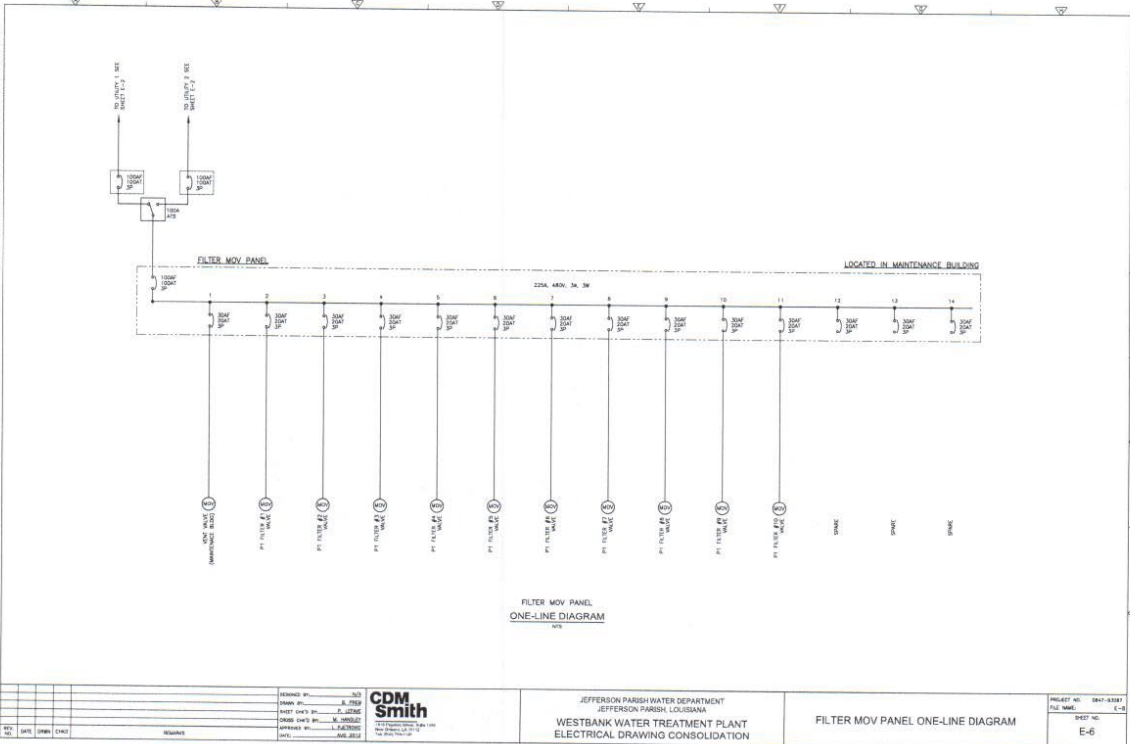
PROJECT NO. 04-03-0000  
 SHEET NO. E-4  
 E-4



PANELS E1PA AND F1PBA  
ONE-LINE DIAGRAM

NO. 0000 DATE 05/14/08 CHKD CMB REVISIONS	DESIGNED BY DRAWN BY CHECKED BY APPROVED BY <b>CDM Smith</b>	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA <b>WESTBANK WATER TREATMENT PLANT</b> ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO. 0841-0391 SHEET NO. E-5 E-5
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NOT TO SCALE  
 ALL DIMENSIONS TO FACE UNLESS OTHERWISE NOTED  
 ALL WORK TO BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72), AS WELL AS THE LATEST EDITIONS OF THE INTERNATIONAL CODES AND STANDARDS FOR MECHANICAL, PLUMBING, AND HEATING ENGINEERING, AS WELL AS THE PROJECT'S SPECIFICATIONS AND CONDITIONS OF CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS OF CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS OF CONTRACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS OF CONTRACT.



NO.	DATE	BY	CHKD	REVISIONS

DESIGNED BY	
CHECKED BY	
APPROVED BY	
DRAWN BY	

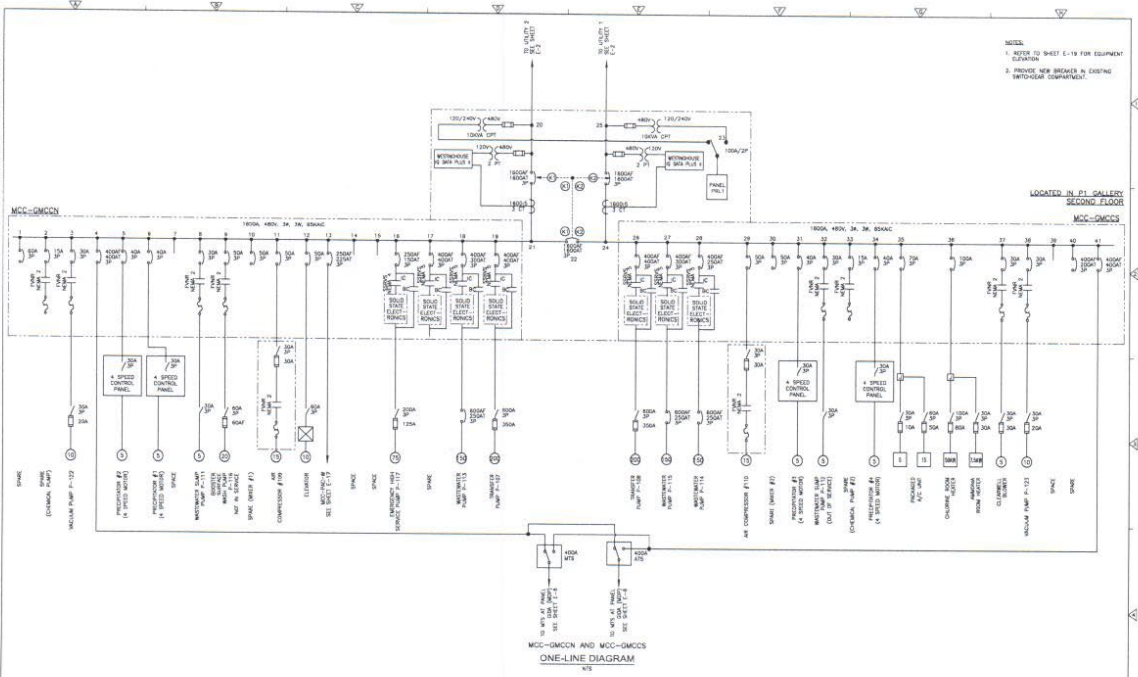
**CDM Smith**  
 700 Poydras Street, Suite 2000  
 New Orleans, Louisiana 70112  
 (504) 581-4200  
 www.cdm.com

JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

FILTER MOV PANEL ONE-LINE DIAGRAM

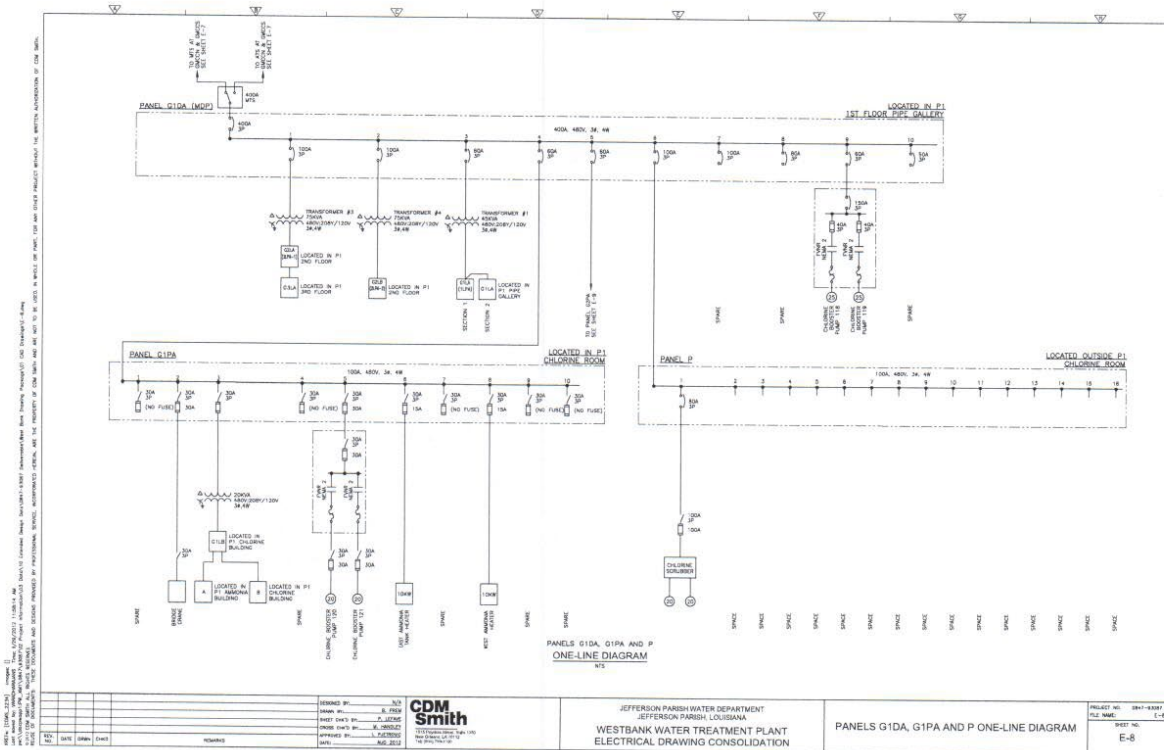
PROJECT NO.	0843-0383
DWG. NO.	E-6
REV.	

NOTES:  
 1. REFER TO SHEET E-19 FOR EQUIPMENT ELEVATION  
 2. PROVIDE NEW BRACKETS IN EXISTING INTERLOCK COMPARTMENT



REVISIONS NO. DATE BY 01 08/20/2014 JLS 02 08/20/2014 JLS 03 08/20/2014 JLS 04 08/20/2014 JLS 05 08/20/2014 JLS 06 08/20/2014 JLS 07 08/20/2014 JLS 08 08/20/2014 JLS 09 08/20/2014 JLS 10 08/20/2014 JLS 11 08/20/2014 JLS 12 08/20/2014 JLS 13 08/20/2014 JLS 14 08/20/2014 JLS 15 08/20/2014 JLS 16 08/20/2014 JLS 17 08/20/2014 JLS 18 08/20/2014 JLS 19 08/20/2014 JLS 20 08/20/2014 JLS 21 08/20/2014 JLS 22 08/20/2014 JLS 23 08/20/2014 JLS 24 08/20/2014 JLS 25 08/20/2014 JLS 26 08/20/2014 JLS 27 08/20/2014 JLS 28 08/20/2014 JLS 29 08/20/2014 JLS 30 08/20/2014 JLS 31 08/20/2014 JLS 32 08/20/2014 JLS 33 08/20/2014 JLS 34 08/20/2014 JLS 35 08/20/2014 JLS 36 08/20/2014 JLS 37 08/20/2014 JLS 38 08/20/2014 JLS 39 08/20/2014 JLS 40 08/20/2014 JLS 41 08/20/2014 JLS 42 08/20/2014 JLS 43 08/20/2014 JLS 44 08/20/2014 JLS 45 08/20/2014 JLS 46 08/20/2014 JLS 47 08/20/2014 JLS 48 08/20/2014 JLS 49 08/20/2014 JLS 50 08/20/2014 JLS 51 08/20/2014 JLS 52 08/20/2014 JLS 53 08/20/2014 JLS 54 08/20/2014 JLS 55 08/20/2014 JLS 56 08/20/2014 JLS 57 08/20/2014 JLS 58 08/20/2014 JLS 59 08/20/2014 JLS 60 08/20/2014 JLS 61 08/20/2014 JLS 62 08/20/2014 JLS 63 08/20/2014 JLS 64 08/20/2014 JLS 65 08/20/2014 JLS 66 08/20/2014 JLS 67 08/20/2014 JLS 68 08/20/2014 JLS 69 08/20/2014 JLS 70 08/20/2014 JLS 71 08/20/2014 JLS 72 08/20/2014 JLS 73 08/20/2014 JLS 74 08/20/2014 JLS 75 08/20/2014 JLS 76 08/20/2014 JLS 77 08/20/2014 JLS 78 08/20/2014 JLS 79 08/20/2014 JLS 80 08/20/2014 JLS 81 08/20/2014 JLS 82 08/20/2014 JLS 83 08/20/2014 JLS 84 08/20/2014 JLS 85 08/20/2014 JLS 86 08/20/2014 JLS 87 08/20/2014 JLS 88 08/20/2014 JLS 89 08/20/2014 JLS 90 08/20/2014 JLS 91 08/20/2014 JLS 92 08/20/2014 JLS 93 08/20/2014 JLS 94 08/20/2014 JLS 95 08/20/2014 JLS 96 08/20/2014 JLS 97 08/20/2014 JLS 98 08/20/2014 JLS 99 08/20/2014 JLS 100 08/20/2014 JLS	DESIGNED BY: JLS DRAWN BY: JLS CHECKED BY: JLS APPROVED BY: JLS DATE: 08/20/2014	<b>CDM Smith</b> 1111 Poydras Street, Suite 2000 New Orleans, LA 70112 Telephone: (504) 581-5000 Fax: (504) 581-5001 www.cdm-smith.com	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO.: 08-1-0001 SHEET NO.: E-7 E-7
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1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 3. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).  
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC) AND THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72).

NO.	DATE	BY	CHKD	REVISION

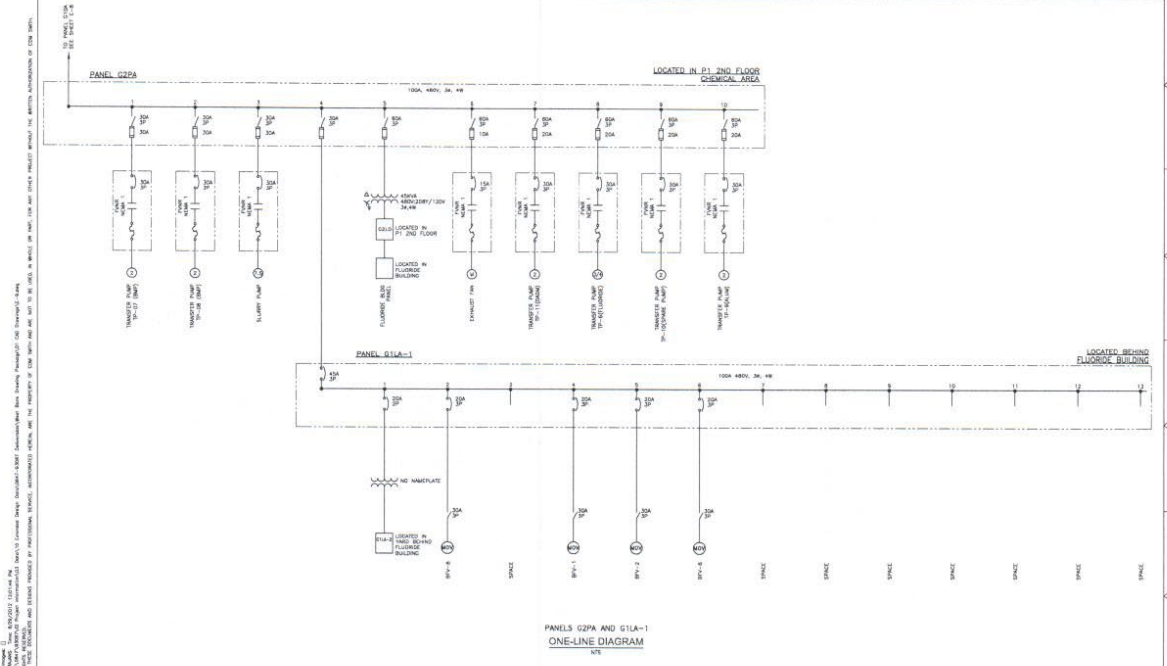
DESIGNED BY: JLD  
 DRAWN BY: R. T. BOYD  
 CHECKED BY: J. J. BOYD  
 APPROVED BY: L. J. BOYD  
 DATE: 08/11/11



JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

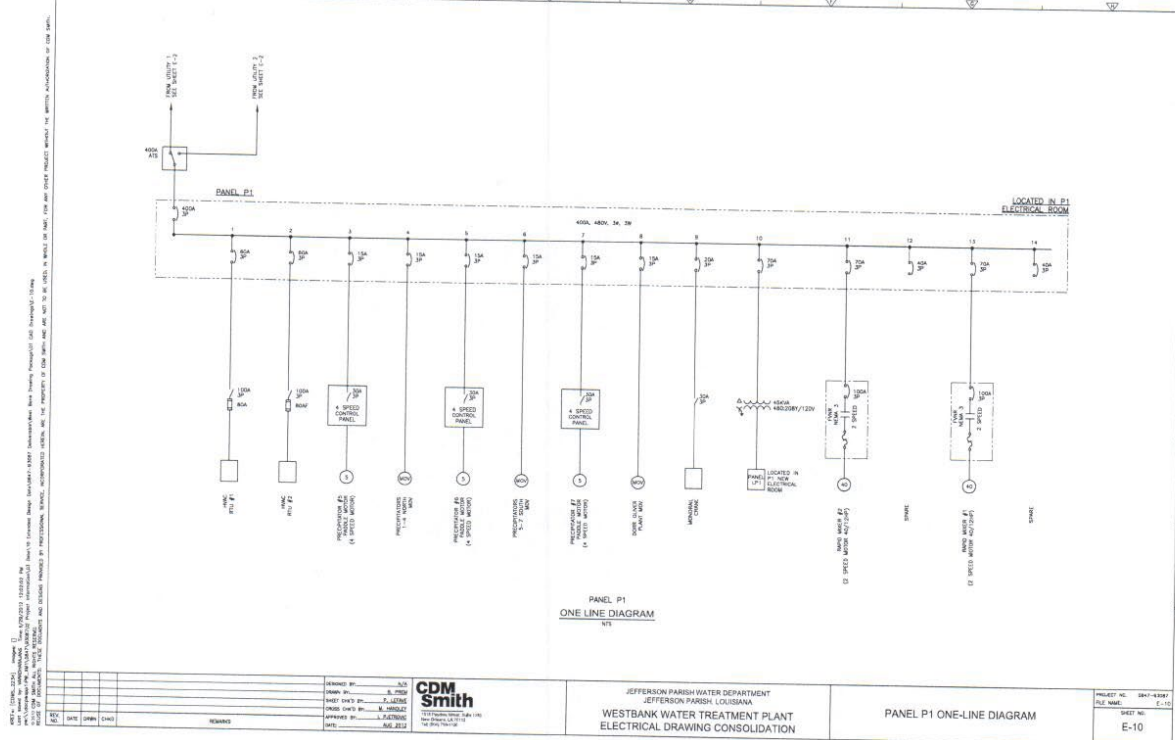
PANELS G1DA, G1PA AND P ONE-LINE DIAGRAM

PROJECT NO. 0811-0381  
 SHEET NO. E-8



PANELS G2PA AND G1LA-1  
ONE-LINE DIAGRAM  
NTE

<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	BY	CHKD	DESCRIPTION						<p>DESIGNED BY: JLD</p> <p>DRAWN BY: R. FISH</p> <p>CHECKED BY: J. JONES</p> <p>INCHES CHECKED BY: A. JONES</p> <p>APPROVED BY: J. JONES</p> <p>DATE: 08/12/10</p>	<p><b>CDM Smith</b></p> <p>12200 Westchase Drive, Suite 100 Houston, TX 77040 Tel: 281.416.8000 Fax: 281.416.8001</p>	<p>JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION</p>	<p>PROJECT NO: 0811-0301 SHEET NO: E-9</p>
NO.	DATE	BY	CHKD	DESCRIPTION										



NO.	DATE	BY	CHKD	REMARKS

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 CHECK BY: A. CHASE  
 DATE: 04/11/2018  
 APPROVED BY: J. L. JASTRICH  
 DATE: 04/11/2018

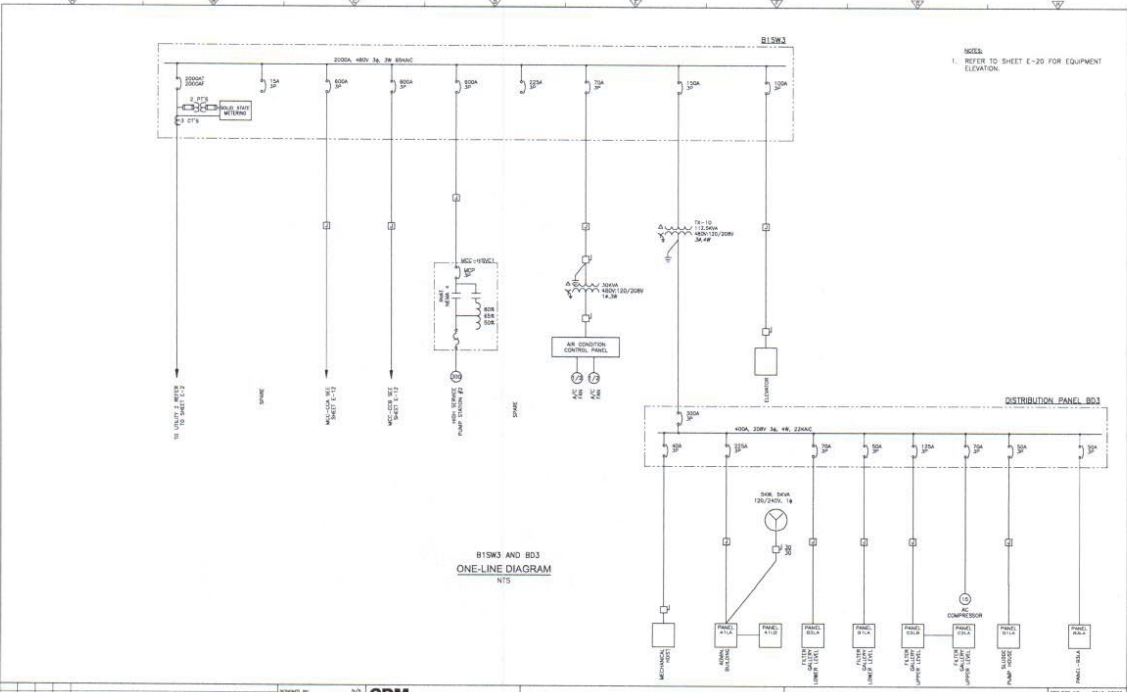


JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PANEL P1 ONE-LINE DIAGRAM

PROJECT NO:	2017-0300
FILE NAME:	E-10
DRAWING NO.:	E-10

NOTES:  
 1. REFER TO SHEET E-20 FOR EQUIPMENT ELEVATION.



B1SW3 AND BD3  
 ONE-LINE DIAGRAM  
 NTS

NO.	DATE	BY	CHKD	REVISION

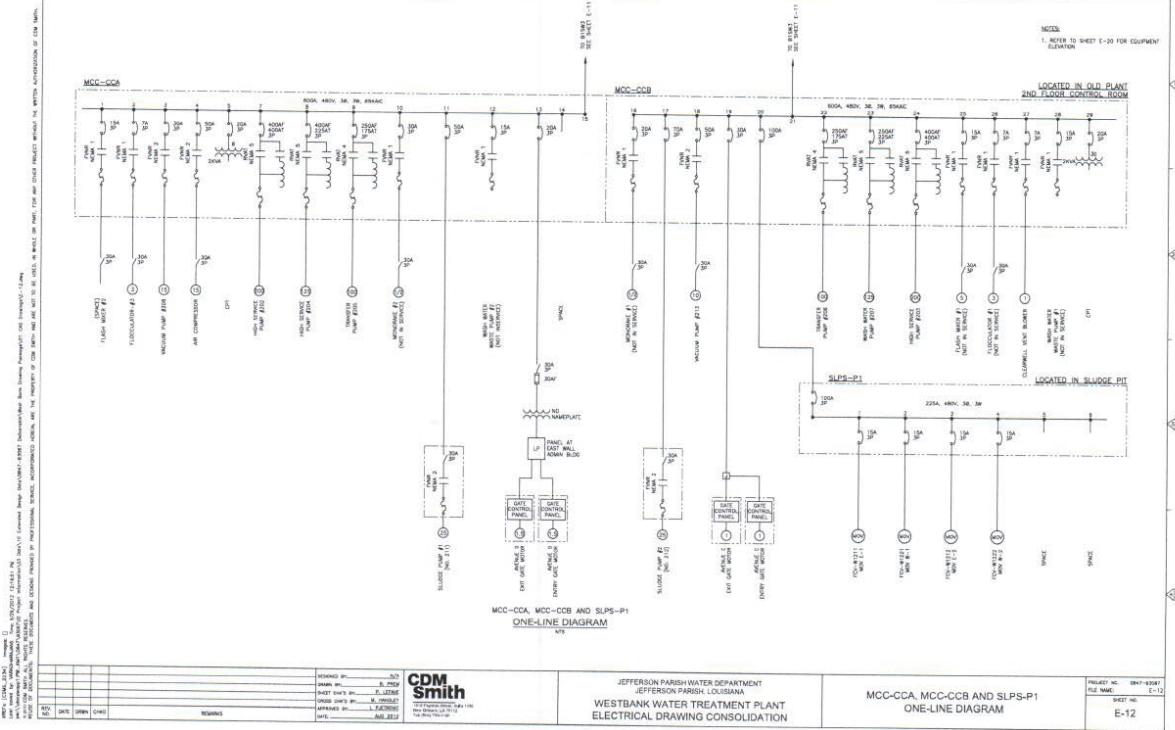
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 CHECKED BY: J. JENSEN  
 APPROVED BY: L. JACOBSON  
 DATE: 08/15/07



JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

SWITCHBOARD B1SW3 AND  
 DISTRIBUTION PANEL BD3  
 ONE-LINE DIAGRAMS

PROJECT NO. 0841-43847  
 SHEET NO. E-11



NO.	DATE	BY	CHKD

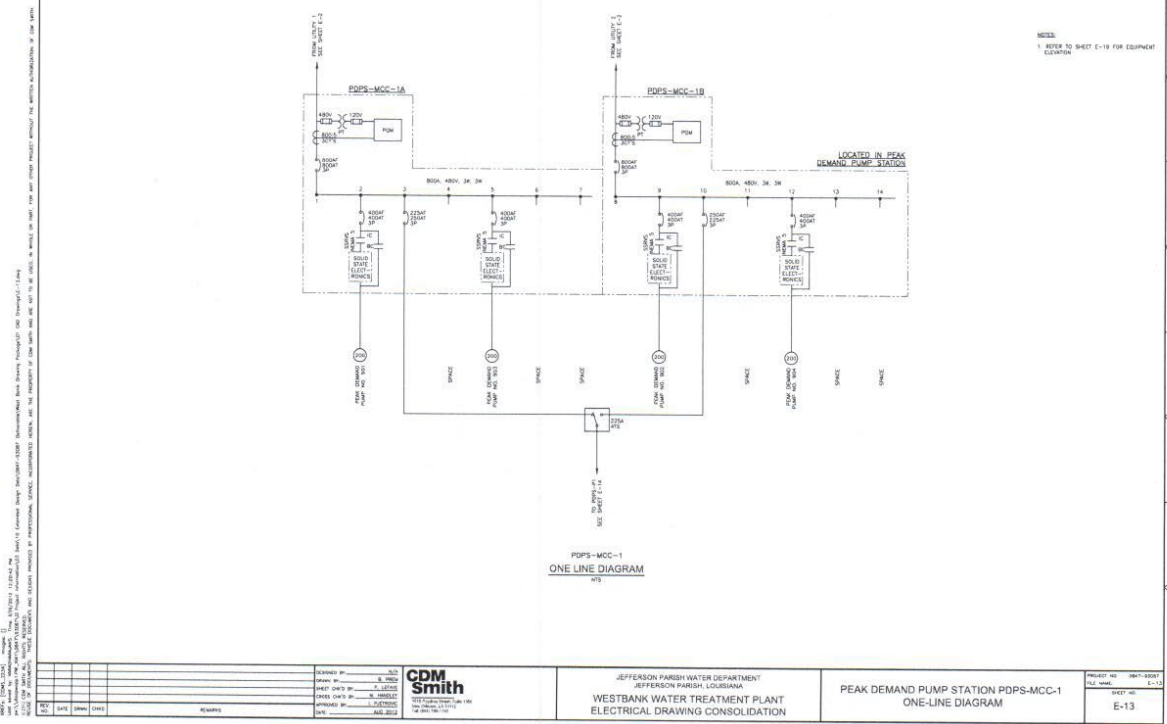
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DRAWN BY	
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APPROVED BY	
DATE	

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 ELECTRICAL DRAWING CONSOLIDATION

MCC-CCA, MCC-CCB AND SLPS-P1  
 ONE-LINE DIAGRAM

PROJECT NO.	0847-0340
FILE NAME	E-12
SHEET NO.	E-12



NO.	DATE	BY	CHKD	REVISION

DESIGNED BY	
CHECKED BY	
DATE	

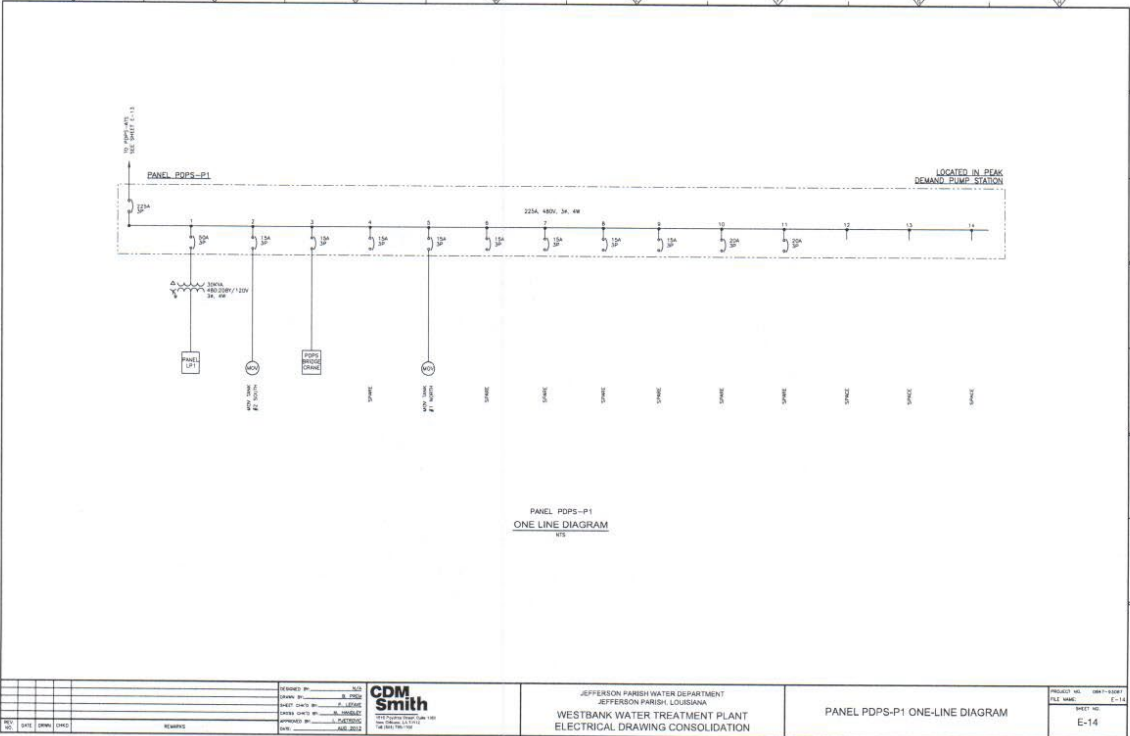
**CDM Smith**  
 11011 North Central Expressway, Suite 100  
 Dallas, Texas 75243  
 TEL: 972.960.8300  
 FAX: 972.960.8301  
 WWW: www.cdm-smith.com

JEFFERSON PARISH WATER DEPARTMENT  
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 ELECTRICAL DRAWING CONSOLIDATION

PEAK DEMAND PUMP STATION PDPS-MCC-1  
 ONE-LINE DIAGRAM

PROJECT NO.	19471-0007
SHEET NO.	E-13

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 DRAWN BY: J. W. SMO  
 APPROVED BY: J. W. SMO  
 DATE: 08/14/13

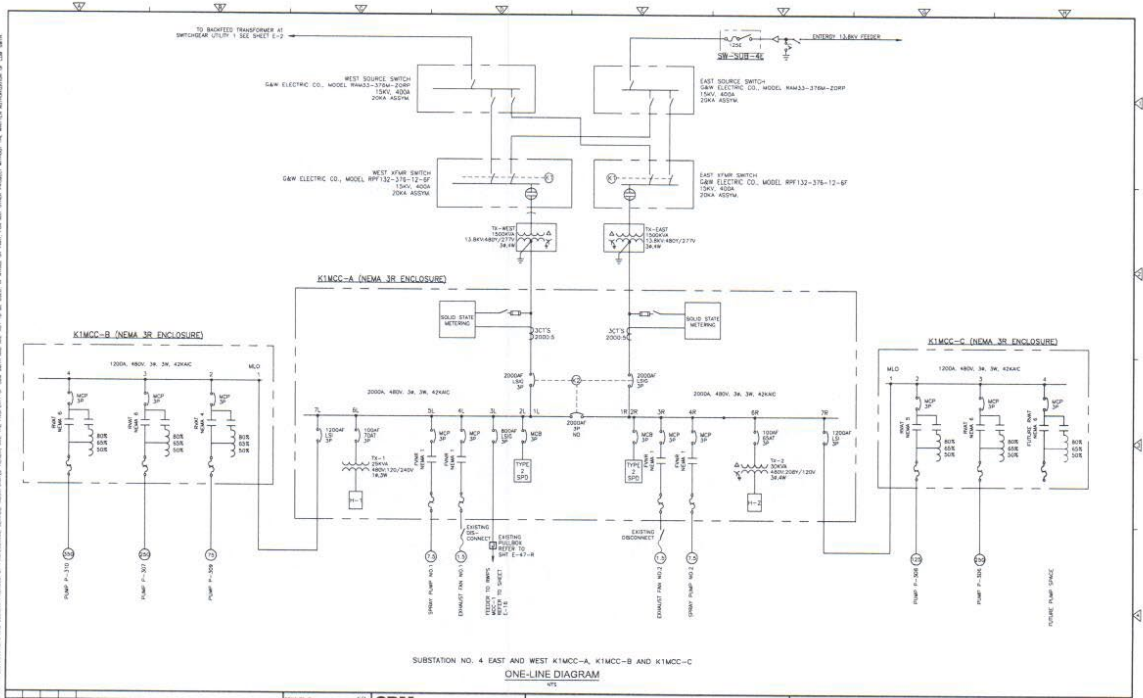
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 New Orleans, LA 70112  
 (504) 581-7000

JEFFERSON PARISH WATER DEPARTMENT  
 JEFFERSON PARISH, LOUISIANA  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

PANEL PDPS-P1 ONE-LINE DIAGRAM

PROJECT NO.	08-11-0101
DWG. NAME	E-14
SHEET NO.	E-14

WEST SOURCE SWITCH  
 EAST SOURCE SWITCH  
 WEST MTR SWITCH  
 EAST MTR SWITCH  
 K1MCC-A (NEMA 3R ENCLOSURE)  
 K1MCC-B (NEMA 3R ENCLOSURE)  
 K1MCC-C (NEMA 3R ENCLOSURE)



SUBSTATION NO. 4 EAST AND WEST K1MCC-A, K1MCC-B AND K1MCC-C  
 ONE-LINE DIAGRAM

NO.	DATE	BY	CHKD	REVISION

DESIGNED BY	J. SMITH
DRAWN BY	J. SMITH
CHECKED BY	L. JONES
DATE	08/14/12

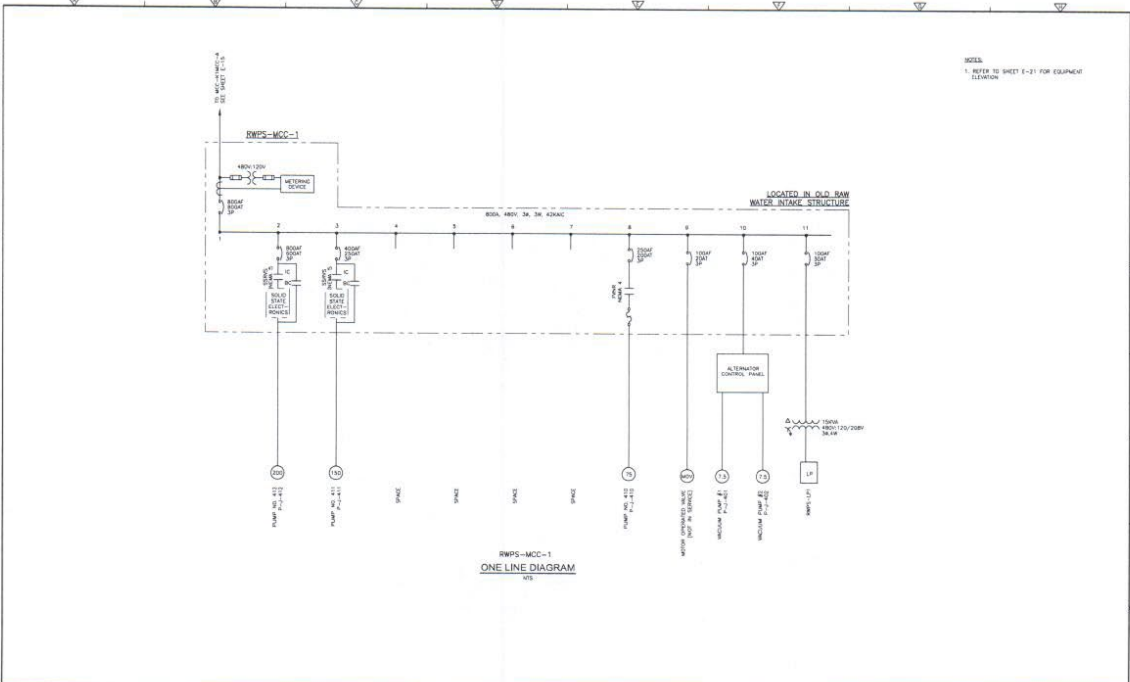
**CDM Smith**  
 1775 PINEBLISS DRIVE, SUITE 100  
 METairie, LA 70002  
 TEL: 504.885.1100  
 FAX: 504.885.1101  
 WWW.CDMSMITH.COM

JEFFERSON PARISH WATER DEPARTMENT  
 WESTBANK WATER TREATMENT PLANT  
 ELECTRICAL DRAWING CONSOLIDATION

SUBSTATION NO. 4 EAST AND WEST K1MCC-A, K1MCC-B AND K1MCC-C  
 ONE-LINE DIAGRAM  
 PROJECT NO. 0947-0007  
 SHEET NO. E-15  
 E-15



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 3. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.  
 4. THE USER OF THIS DRAWING SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.  
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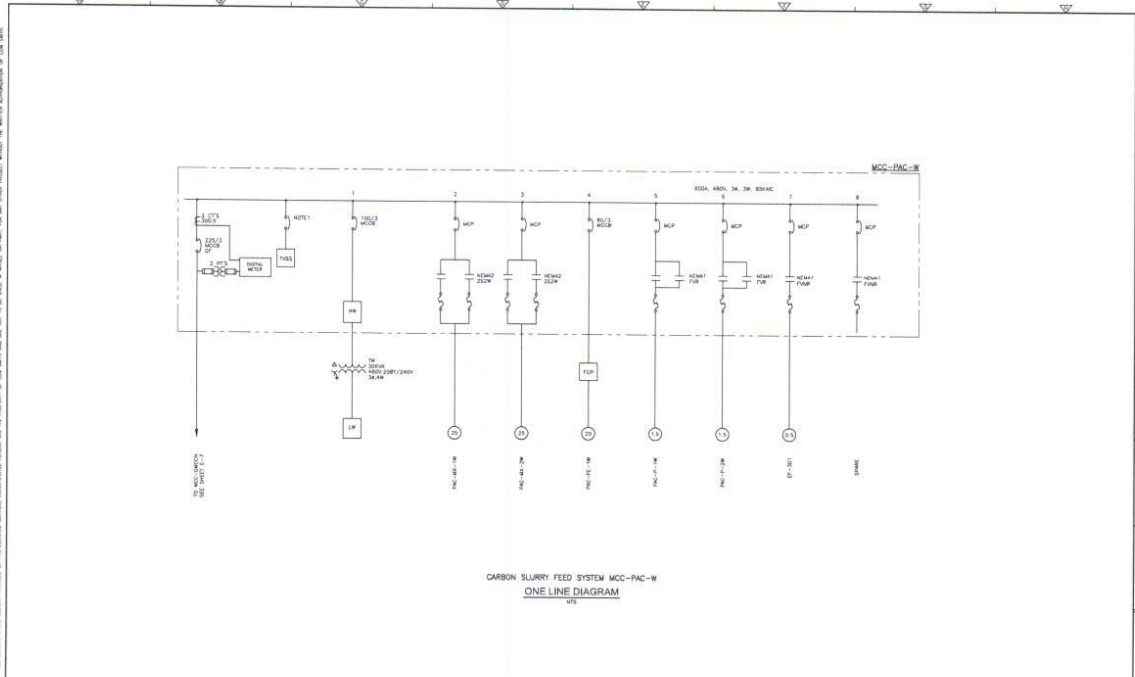


SCALE:  
 1. REFER TO SHEET E-21 FOR EQUIPMENT ELEVATION

RWPS-MCC-1  
 ONE LINE DIAGRAM

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NO.	DATE	BY	CHKD	REVISION																																											
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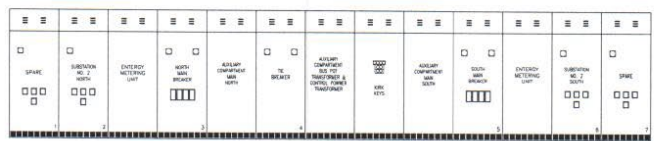
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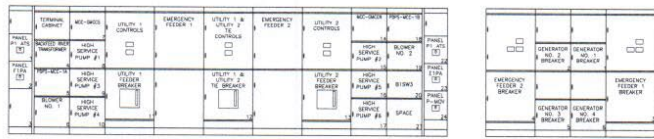
CARBON SLURRY FEED SYSTEM MCC-PAC-W  
ONE LINE DIAGRAM  
NYS

PROJECT NO. 10000000000000000000 SHEET NO. 10000000000000000000 DATE 10/10/2010	DESIGNED BY: J. SMITH CHECKED BY: J. SMITH APPROVED BY: J. SMITH	<b>CDM Smith</b> CONSULTING ENGINEERS 10000000000000000000 10000000000000000000	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO. 10000000000000000000 SHEET NO. 10000000000000000000 E-17
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ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE. THIS DOCUMENT IS UNCLASSIFIED EXCEPT WHERE SHOWN OTHERWISE.

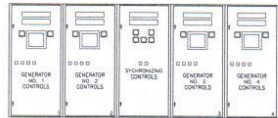


SUBSTATION NO. 1 13.8KV SWITCHGEAR  
ELEVATION  
N/S



SWITCHGEAR UTILITY 1 AND UTILITY 2  
ELEVATION  
N/S

SYNCHRONIZING SWITCHGEAR  
ELEVATION  
N/S



GENERATOR CONTROL PANEL  
ELEVATION  
N/S

NO.	DATE	BY	REVISION

DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE
PROJECT NO.	DATE
APP. NO.	DATE



JEFFERSON PARISH WATER DEPARTMENT  
JEFFERSON PARISH, LOUISIANA  
WESTBANK WATER TREATMENT PLANT  
ELECTRICAL DRAWING CONSOLIDATION

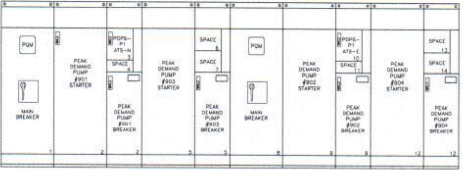
SUBSTATION NO. 1 13.8KV SWITCHGEAR,  
SWITCHGEAR UTILITY 1 AND UTILITY 2,  
SYNCHRONIZING SWITCHGEAR AND GENERATOR  
CONTROL PANEL ELEVATIONS

PROJECT NO.	DATE
APP. NO.	DATE
E-18	

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL FIRE ALARM AND SIGNAL CODE (NFPA 72), THE NATIONAL ELECTRICAL SAFETY CODE (NFPA 70E), AND THE NATIONAL ELECTRICAL MANUFACTURING ASSOCIATION (NEMA) STANDARDS. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES. THE DESIGNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE LOCAL, STATE, AND FEDERAL AUTHORITIES.



MCC-GMCCN & MCC-GMCCS  
ELEVATION  
NYS



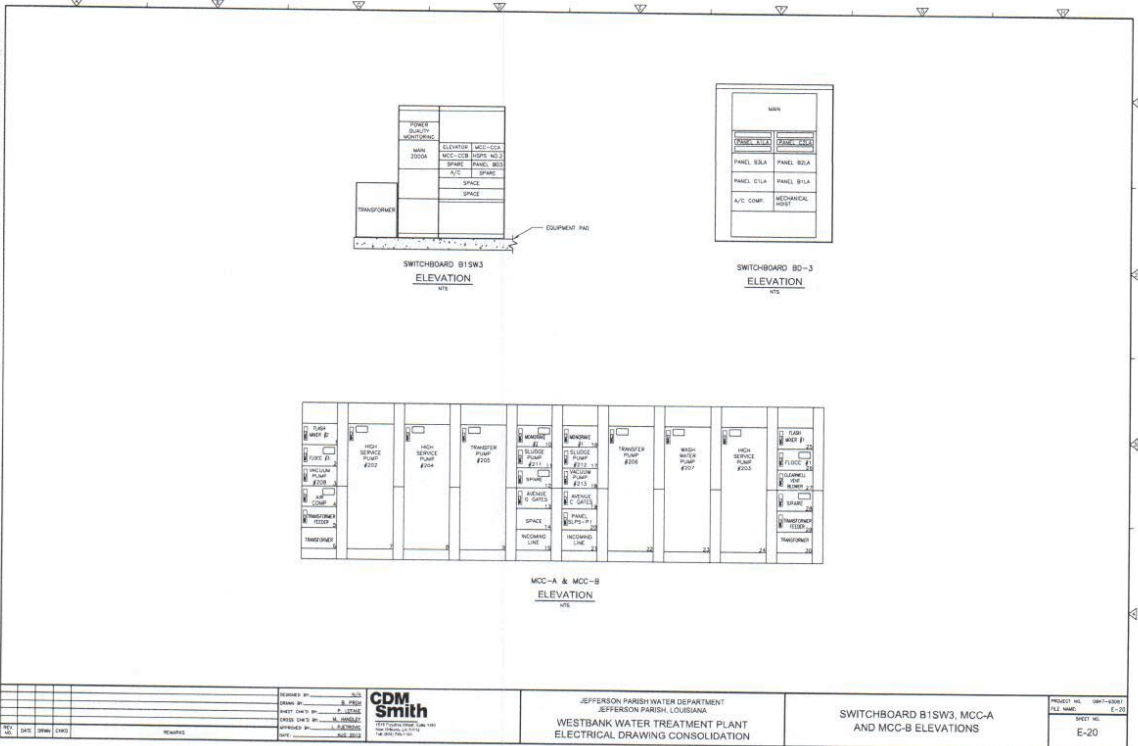
PDPS-MCC-1 ELEVATION  
ELEVATION  
NYS

NO.	DATE	BY	CHKD	REVISION

DESIGNED BY	
DRAWN BY	
CHECKED BY	
APPROVED BY	
DATE	

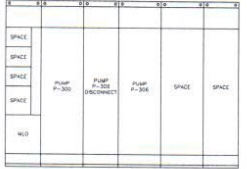
<b>CDM Smith</b>	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	MCC-GMCCN, MCC-GMCCS AND PDPS-MCC-1 ELEVATIONS	PROJECT NO. JWD-18001 SHEET NO. E-19
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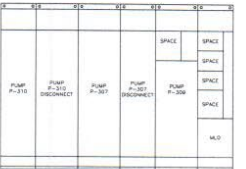


DESIGNED BY CHECKED BY APPROVED BY	<b>CDM Smith</b> <small>1000 Poydras Street, Suite 1800          New Orleans, LA 70112</small>	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	PROJECT NO. JWP-09061 SHEET NO. E-20
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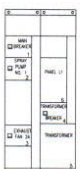
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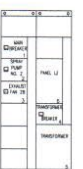
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ELEVATION  
MCC



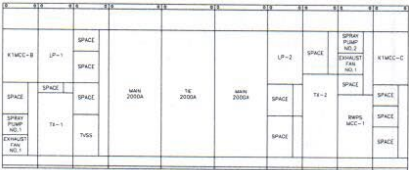
MCC-K1MCC-B  
ELEVATION  
MCC



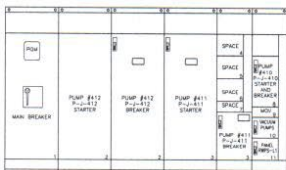
MCC-1  
ELEVATION  
MCC



MCC-2  
ELEVATION  
MCC

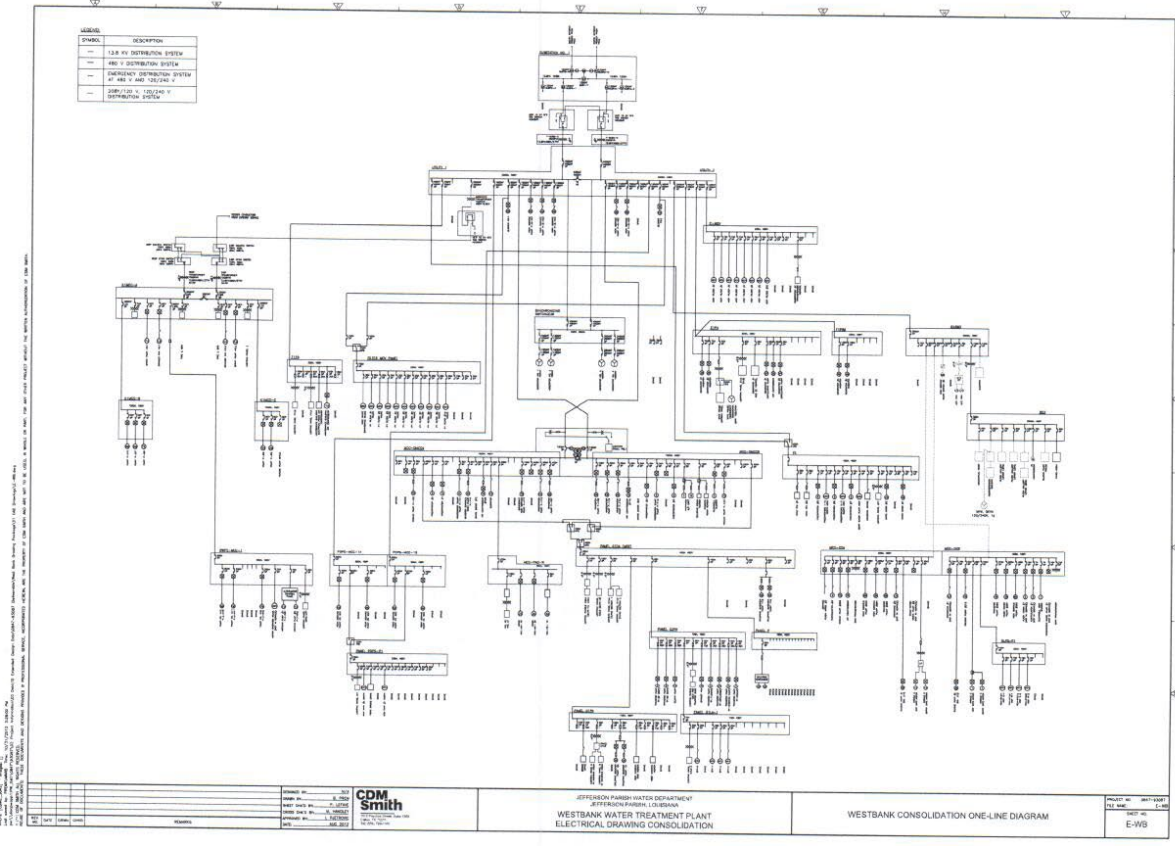


MCC-K1MCC-A  
ELEVATION  
MCC



RWPS-MCC-1  
ELEVATION  
MCC

REVISIONS NO. DATE BY/CHKD		DRAWN BY: J. SMITH CHECKED BY: J. SMITH APPROVED BY: J. SMITH DATE: 10/15/2010	<b>CDM Smith</b> CONSULTING ENGINEERS 1000 PINEAPPLE AVENUE, SUITE 200 HOUMA, LOUISIANA 70309	JEFFERSON PARISH WATER DEPARTMENT JEFFERSON PARISH, LOUISIANA WESTBANK WATER TREATMENT PLANT ELECTRICAL DRAWING CONSOLIDATION	MCC-K1MCC, MCC-1, MCC-2 AND RWPS-MCC-1 ELEVATIONS	PROJECT NO.: 0801-0301 SHEET NO.: E-21 E-21
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DATE: 9/16/2023  
BID NO.: 50-00143088

INVITATION TO BID  
THIS IS NOT AN ORDER

Page: 1

## JEFFERSON PARISH

PURCHASING DEPARTMENT  
P.O. BOX 9  
GRETNA, LA. 70054-0009  
504-364-2678

PURCHASING SPECIALIST:  
DABRAHAM@jeffparish.net

**BIDS WILL BE RECEIVED ONLINE VIA WWW.JEFFPARISHBIDS.NET UNTIL 2:00 PM, 10/12/2023 AND PUBLICLY OPENED THEREAFTER IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053. At no charge, bidders are to submit via Jefferson Parish's electronic procurement page by visiting [www.jeffparishbids.net](http://www.jeffparishbids.net) to register for this free site. Additional instructions are included in the text box highlighting electronic procurement.**

**LATE BIDS WILL NOT BE ACCEPTED**

**NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION. HOWEVER, ELECTRONIC SIGNATURES AS DEFINED IN LSA - R.S. 9:2620(8) ARE ACCEPTABLE. SIGNATURE MUST BE A SECURED DIGITAL SIGNATURE.**

### INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

#### THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 136353 and/or Resolution No. 141125 as amended.

Jefferson Parish adheres to the Louisiana Code of Governmental Ethics, contained in Louisiana Revised Statutes Annotated, R.S. 42:1101, et seq. Vendor/Proposer by this submission, warrants that there are no "conflicts of interest" related to this procurement that would violate applicable Louisiana Law. Violation of the Louisiana Code of Governmental Ethics may result in rescission of contract, permit or licenses, and the imposition of fines and/or penalties, without contractual liability to the public in accordance with applicable law.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Vendors may experience a delay in payment if your company is not a registered vendor with Jefferson Parish.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing via email to the Purchasing Specialist's email address as indicated above, no later than Five (5) working days prior to the bid opening. Bid numbers should be mentioned in all requests. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

**Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)**



All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge any Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

A corporate resolution or written evidence of the individual signing the bid having such authority must be submitted with the bid. Failure to comply will cause bid to be rejected. For corporate entities, such written evidence may be a printout of the Louisiana Secretary of State's website listing the signatory as an officer. Such printout shall be included with the bid submission. Bids submitted by Owners or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

### INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE and RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

PREFERENCE: Unless federal funding is directly spent by Jefferson Parish for this purchase, preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA – R.S. 38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and local taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1961).

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

**IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS**

**This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.**

**Please visit our E-Procurement Page at [www.jeffparishbids.net](http://www.jeffparishbids.net) to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.**

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 136353 or 141125 as amended. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

**ADDITIONAL REQUIREMENTS FOR THIS BID**

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

**1, 3, 4, 5, 6, 8, 9, 10, 11, 12, 13, 15**

**MANDATORY**

**PRE-BID CONFERENCE TO BE HELD AT: WB Water Plant, 4500 Westbank Expy.,  
Marrero, LA 70072, 9:00 A.M., then EB Plant  
ON 9/28/2023**

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.

**INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS**

4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid electronic envelope. Failure to comply will cause the bid to be rejected. When submitting the bid electronically, the license number must be entered in the appropriate field in the electronic procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precaution must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.
7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Failure to comply with this instruction will result in bid rejection.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. All sureties must be in original format (no copies) When submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

### INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA – RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted as per the appendix instructions. Failure to submit applicable certifications per the appendix instructions will result in bid rejection.

17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which is permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment."). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owed on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session - Louisiana Revised Statute 47:301(8)(c). Owner will furnish to contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment, and report to Owner the amount of taxes not incurred.

**It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission: and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to JPCO 2-155.10(19). By signing this document, every corporation, partnership, or person contracting with PARISH, whether by cooperative endeavor, intergovernmental agreement, bid, proposal, application or solicitation for a parish contract, and every application for certification of eligibility for a parish contract or program, attests that it understands and will abide by all provisions of JPCO 2-155.10.**

**All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form**

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES \_\_\_\_\_ NO \_\_\_\_\_

MAXIMUM ESCALATION PERCENTAGE REQUESTED \_\_\_\_\_%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF \_\_\_\_\_.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

**DELIVERY: FOB JEFFERSON PARISH**

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES \_\_\_\_\_

**LOUISIANA CONTRACTOR'S LICENSE NO.:** (if applicable) \_\_\_\_\_

**THIS SECTION MUST BE COMPLETED BY BIDDER:**

FIRM NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY, STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

TELEPHONE: ( ) \_\_\_\_\_ FAX: ( ) \_\_\_\_\_

EMAIL ADDRESS: \_\_\_\_\_

In the event that addenda are issued with this bid, bidders **MUST** acknowledge all addenda on the bid form. Bidder must acknowledge receipt of an addendum on the bid form by placing the addendum number as indicated. Failure to acknowledge any addendum on the bid form will result in bid rejection.

Acknowledge Receipt of Addenda: NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

NUMBER: \_\_\_\_\_

TOTAL PRICE OF ALL BID ITEMS: \$ \_\_\_\_\_

AUTHORIZED

SIGNATURE: \_\_\_\_\_

Printed Name

TITLE: \_\_\_\_\_

SIGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

**NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.**

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00143088

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
1	1.00	ONLY	<p>Two (2) Year Contract for Preventative Maintenance and Repairs of Electrical Switchgear and Related Equipment for the Jefferson Parish Department of Public Works - Water</p> <p>0010 - MAJOR PREVENTATIVE MAINTENANCE PROGRAM ON EXISTING ELECTRICAL SWITCHGEAR SYSTEMS AT EAST JEFFERSON WATERWORKS, TO BE APPLIED ONLY AT EAST JEFFERSON WATERWORKS, (AS PER SPECIFICATIONS AND THE RELATED SINGLE LINE DIAGRAM).</p> <p>*** MANDATORY PRE-BID &amp; SITE VISIT ***</p>	\$	\$
2	1.00	ONLY	<p>0020 - MAJOR PREVENTATIVE MAINTENANCE PROGRAM ON EXISTING ELECTRICAL SYSTEMS AT WEST JEFFERSON WATERWORKS, TO BE APPLIED ONLY AT WEST JEFFERSON WATERWORKS, (AS PER SPECIFICATIONS AND THE RELATED SINGLE LINE DIAGRAM).</p>	\$	\$
3	8.00	ONLY	<p>0030 - INSPECTION OF GROUNDING SYSTEM AT ELEVATED WATER STORAGE TANKS.</p> <p>EASTBANK 3 WESTBANK 5</p>	\$	\$
4	2.00	ONLY	<p>0035 - INSPECTION OF GROUNDING SYSTEM AT ELEVATED WATER STORAGE TANKS.</p> <p>(FOR GRAND ISLE ONLY)</p> <p>GRAND ISLE 2</p>	\$	\$
5	30.00	EA	<p>0040 - RELATED MANHOLE WORK AND INSPECTIONS AS DESCRIBED IN SUB-PARAGRAPHS NOS. 4.7.8 &amp; 4.7.9</p>	\$	\$
6	40.00	HR	<p>0050 - COST PER ONE (1) MAN-HOUR FOR ENGINEERING SERVICES</p> <p>(ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID)</p>	\$	\$
7	40.00	HR	<p>0060 - COST PER ONE (1) MAN-HOUR FOR TECHNICIAN SERVICES</p>	\$	\$

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00143088

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
8	40.00	HR	<p>(ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID)</p> <p>0070 - COST PER ONE (1) MAN-HOUR FOR ELECTRICIAN SERVICES</p>	<p>\$ _____</p>	<p>\$ _____</p>
9	1.00	ONLY	<p>(ALL ASSOCIATED COSTS SHALL BE INCLUDED IN THE UNIT PRICE BID)</p> <p>9999 - PARTS AND MATERIALS</p> <p>THIS IS A NON-BIDABLE ITEM. THIS ITEM IS FOR PARTS NEEDED TO COMPLETE A REPAIR UP TO \$5,000.00 PER JOB, WITH THE APPROVAL FROM THE REQUESTING DEPARTMENT.</p> <p>INVOICES SHALL BE SUBMITTED AT COST ONLY (WITH NO MARKUP)</p>	<p>\$ _____</p>	<p>\$ _____</p>

# Bid Bond

An Electronic Bid Bond must be submitted with this bid, through one of the respective clearing houses at [www.jeffparish.net](http://www.jeffparish.net) or [www.centralbidding.com](http://www.centralbidding.com). To access the bonding companies on Central Bidding, hover over the "Central Bidding" link at the top of the page and select the "Bid Bonds" link.

The electronic bid bond number is to be placed in the required section listed on the standard envelope. Scanned copies of bid bonds will not be accepted with your submission.

**CENTRAL BIDDING**  
FROM CENTRAL AUCTION HOUSE

ABOUT US TESTIMONIALS CENTRAL BIDDING PROCUREMENT SOLUTIONS

Bids by Agency  
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Bid Bonds  
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Central Bidding is the leading provider of online bidding services to local agencies.

CENTRAL BIDDING SURPLUS SALES REGISTER NOW!

**\$41.6 Billion**

**38,136 Bid Opportunities**

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Central Bidding, founded in 2007, is one of the largest providers of electronic bidding services to public and private buying entities. Vendors have trusted Central Bidding to securely deliver more than \$31.2 Billion worth of electronic bids for more than 470 buying entities since their founding. Central Bidding works under exclusive contract with each of these buying entities and in each instance Central Bidding is the only official electronic location to receive the bid documents, the automated updates and allowance of electronic bids.

Learn More >

<https://www.centralauctionhouse.com/central-bidding/bid-bonds>



## CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF  
\_\_\_\_\_  
INCORPORATED.

AT THE MEETING OF DIRECTORS OF \_\_\_\_\_  
INCORPORATED, DULY NOTICED AND HELD ON \_\_\_\_\_,  
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT  
WAS:

RESOLVED THAT \_\_\_\_\_, BE AND IS HEREBY  
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-  
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON  
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS  
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,  
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE  
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,  
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES  
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS  
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING  
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-  
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE  
A TRUE AND CORRECT COPY OF AN  
EXCERPT OF THE MINUTES OF THE ABOVE  
DATED MEETING OF THE BOARD OF  
DIRECTORS OF SAID CORPORATION, AND  
THE SAME HAS NOT BEEN REVOKED OR  
RESCINDED.

\_\_\_\_\_  
**SECRETARY-TREASURER**

\_\_\_\_\_  
**DATE**

## **Non-Public Works Bid Affidavit Instructions**

- **Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.**
- **Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.**
- **Affidavit must be notarized or the affidavit will not be accepted.**
- **Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.**
- **Affiant MUST select either A or B when required or the affidavit will not be accepted.**
- **Affiants who select choice A must include an attachment or the affidavit will not be accepted.**
- **If both choice A and B are selected, the affidavit will not be accepted.**
- **Affidavit marked N/A will not be accepted.**
- **It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.**

*Instruction sheet may be omitted when submitting the affidavit*

**Non-Public Works Bid**

**AFFIDAVIT**

**STATE OF** \_\_\_\_\_

**PARISH/COUNTY OF** \_\_\_\_\_

BEFORE ME, the undersigned authority, personally came and appeared: \_\_\_\_\_  
\_\_\_\_\_, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized \_\_\_\_\_ of \_\_\_\_\_ (Entity),  
the party who submitted a bid in response to Bid Number \_\_\_\_\_, to the Parish of  
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

**Choice B** \_\_\_\_\_ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

**Choice B** \_\_\_\_\_ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

\_\_\_\_\_  
Signature of Affiant

\_\_\_\_\_  
Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE \_\_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_.

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
Printed Name of Notary

\_\_\_\_\_  
Notary/Bar Roll Number

My commission expires \_\_\_\_\_.

## **STANDARD INSURANCE REQUIREMENTS FOR BIDDING PURPOSES**

All required insurance under this bid shall conform to Jefferson Parish Resolution No. 113646 or No. 113647, as applicable. Contractors may not commence any work under any ensuing contract unless and until all required insurance and associated evidentiary requirements thereto have been met, along with any additional specifications contained in the **Invitation to Bid**. Except as where otherwise precluded by law, the Parish Attorney or his designee, with the concurrence of the Director of Risk Management or his designee, may agree on a case-by-case basis, to deviate from Jefferson Parish's standard insurance requirements, as provided in this Section. Vendors requesting deviation therefrom shall submit such requests in writing, along with compelling substantiation, to the Purchasing Department prior to the bid's due date. Any changes to the insurance requirements will be reflected in the bid specifications and addenda. Prior to contract execution and at all times thereafter during the term of such contract, contractors must provide and continuously maintain all coverages as required by the foregoing Resolutions, and the contract documents. Failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

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For bidding purposes, bidders must submit with bid submission a current (valid) insurance certificate evidencing the required coverages. Failure to comply will cause bid to be rejected. The current insurance certificate will be used for proof of insurance at time of evaluation. Thereafter, and prior to contract execution, the low bidder will be required to provide final insurance certificates to the Parish which shall name **the Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council** as additional insureds regarding negligence by the contractor for the Commercial General Liability and the Comprehensive Automobile Liability policies. Additionally, said certificates should reflect the name of the Parish Department receiving goods and services and reference the respective Jefferson Parish bid number.

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### **JEFFERSON PARISH REQUIRED STANDARD INSURANCE**

#### **WORKER'S COMPENSATION INSURANCE**

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

**Note: If your company is not required by law to carry workmen's compensation insurance, i.e. not a Louisiana company, sole employee of the company, then bidders must request a workmen's compensation insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being**

rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

**COMMERCIAL GENERAL LIABILITY**

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

**COMPREHENSIVE AUTOMOBILE LIABILITY**

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.  
Property Damage Liability \$1,000,000.00 each occurrence.

**Note: This category may be omitted if bidders do not/will not utilize company vehicles for the project or do not possess company vehicles. Bidder must request an automobile insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.**

**DEDUCTIBLES** - The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

**UMBRELLA LIABILITY COVERAGE**

An umbrella policy or excess may be used to meet minimum requirements.

**FOR CONSTRUCTION AND RENOVATION PROJECTS:**

The following are required if selected below. Such insurance is due upon contract execution.

**OWNER'S PROTECTIVE LIABILITY**

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

**BUILDER'S RISK INSURANCE**

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.