



## **SECTION E**

### **SPECIAL CONDITIONS**

# **CSA 70 BL ELECTRICAL SERVICE LINE AND FLOW METER INSTALLATION PROJECT**

FOR

**COUNTY SERVICE AREA (CSA) 70 BL**  
BLOOMINGTON, CALIFORNIA

## **SPECIAL CONDITIONS**

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**SPECIAL CONDITIONS  
FOR  
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AND FLOW METER INSTALLATION PROJECT**

**1. THE REQUIREMENT**

The work includes, but is not limited to, providing all necessary supervision, labor, equipment, materials, and tools to satisfactorily perform the work of installing electrical service meter, cabinet, handhole, trench, conduit, electrical service line, pavement, sidewalk and manhole repairs and installation of District owned Flo-Dar meter liquid level monitoring device and subsequent testing. Work to be performed in accordance with plans, specifications, and bid documents.

**2. LOCATION OF CONTRACT WORK SITE**

The contract work site is located on 18694 Valley Boulevard, Bloomington, San Bernardino County, State of California.

**3. JOB SITE SAFETY**

a. Responsibility

Jobsite safety is the sole exclusive responsibility of the Contractor. This responsibility covers his own work force, all subcontractors, visiting personnel and officials, and the public which may have access to the jobsite. The Contractor shall exercise complete control over who has access to the jobsite to ensure jobsite safety. The Owner does not assume any responsibility for job site safety expressed or implied. The Owner relies on the experience, knowledge, and innovative skills of the Contractor to deliver the most effective construction system to the Owner in a safe and responsible manner.

The Contractor acknowledges responsibility for jobsite safety and acknowledges that the Owner will not have such responsibility.

b. Construction Safety Orders

Construction of this project must comply with all safety orders of the California Occupational Safety and Health Program (CAL/OSHA) as published by the Department of Industrial Relations. The Contractor's safety officer shall maintain at the jobsite a complete copy of the California Administrative Code, Title 8 – Industrial Relations, latest edition.

When applicable, the Contractor's operation shall also comply with General Industry Safety Orders.

The jobsite safety officer shall be thoroughly familiar with the safety orders and shall so instruct, inform, or notify all personnel on the jobsite to ensure safety at all times. The safety officer shall also be responsible for all record keeping and reporting requirements, specified in Record Keeping and Reporting Requirements Under the California

- c. Occupational Safety and Health Act, available from the California Division of Labor Statistics and Research.

The Contractor shall comply with the accident prevention program which includes instructions to workers in safe working practices as well as scheduled periodic safety inspection of all work areas on the jobsite.

Contractor shall provide and perform necessary traffic control during periods of road and street impacts while engaged in his operations. Sufficient signage, message boards, detour signs and flagmen will be employed during any impacts. Contractor will use the current California Manual of Uniform Traffic Control Devices (MUTCD), Caltrans Traffic Control Standards and any approved traffic control plan. Traffic Control Plan, when prepared, shall be submitted for review **at least 4 weeks prior** to the expected issuance of permit. A comprehensive traffic control plan, showing detour routes and sign locations, etc., signed by a Registered Civil or Traffic Engineer must be submitted by the permittee (Contractor) to be reviewed and approved by the Traffic Division of the San Bernardino County Department of Public Works for traffic control implementation and compliance. Temporary DAILY road closures may be allowed provided proper detours are provided and residents receive at least 72 hours prior notification. All impacted roads will be made available immediately to any emergency vehicle traffic if warranted. Road closures will be opened at the end of each day and made safe for residents to include any transition ramping, steel plating for open trenches, etc. Contractor at all times (within reason) will work with the residents regarding property ingress and egress.

#### **4. MISCELLANEOUS SPECIAL CONDITIONS**

- a. Pre-Construction Conference

The Contractor, together with his major subcontractors, will be required to attend a pre-construction conference prior to beginning construction. The Owner will set up this conference shortly after execution of the contract.

- b. Contractor's Field Superintendent

The Contractor shall be required to have a field superintendent, from his organization, on the jobsite during construction activities, to receive directions or instruction from the Owner or Engineer. Contractor shall provide the Owner with a 24-hour emergency phone number for field superintendent prior to beginning of construction.

- c. Final Inspection

The Contractor shall schedule a final inspection with the appropriate District staff to ensure that all work as identified in these documents are completed to the satisfaction to the District.

#### **5. SANITARY FACILITIES**

Contractor shall supply appropriate and in sufficient number, temporary sanitary facilities for his workmen to use during the course of the project, Contractor shall be responsible for the regular maintenance, cleaning and pumping of such facility(ies).

#### **6. PERMITS, CERTIFICATES, LAWS, AND ORDINANCES**

Contractor shall, at his own expense, procure all permits, certificates and licenses required of

him by law for the execution of the work. Contractor shall comply with all Federal, State, and local laws, ordinances or rules and regulations relating to the performance of said work. The following agencies have jurisdiction with the project.

A. San Bernardino County Department of Public Works

In the event of any conflict between the Contract Documents and the San Bernardino County Department of Public Works encroachment permit requirements, the most stringent requirement shall prevail. All permit requirements shall be satisfied by Contractor and accepted by the District and Owner before the project is accepted and a Notice of Completion is recorded.

B. State of California Department of Transportation Permit (Caltrans)

District shall obtain an encroachment permit from the State of California Department of Transportation (Caltrans) District 8 and Contractor shall obtain a rider to that permit and shall comply with all the requirements of same. Prior to construction, Contractor shall submit a copy of the encroachment permit rider to Owner.

C. State of California Department of Industrial Safety Excavation Permit

Contractor shall obtain an excavation permit from the State of California Department of Industrial Safety and shall comply with the requirements of same. Prior to construction, Contractor shall submit a copy of the excavation permit to Owner.

D. General

Contractor shall, at his own expense, procure any additional permits, certificates, and/or licenses required of him by law for the execution of the work, including all permits required for storm water pollution control. He shall comply with all federal, state, and local laws, ordinance, and/or rules and regulations relating to the performance of said work.

All the permit requirements shall be satisfied by Contractor and accepted by all issuing agencies and Owner before a notice of completion will be recorded for the project. In the event of conflict between said permit requirements and the other contract documents, the most stringent requirements shall prevail.

**7. CONSTRUCTION WATER**

Water for the work, dust control, testing, cleaning, curing, and compaction or as required will be furnished by the Contractor, and will adhere to all regulations of appropriate Water and Fire agencies for the usage, disposal and connection to fire hydrants or standpipes. Contractor shall control water run-off and comply with NPDES discharge requirements.

**8. TRASH AND DEBRIS REMOVAL**

Contractor shall be responsible in removing and hauling off all trash and/or debris created by him during the construction process. Debris materials (trash, washed out or over spilled concrete, material spoils, etc.) shall be hauled off and disposed of in a manner acceptable and to approved facilities that will dispose of those materials.

**9. PLAN SET**

Contractor will not contact the design engineer directly unless instructed to by the Project or District Manager. All RFI's and clarifications will be submitted to the District's Project Manager who will route through the engineer as required.

Contractor will maintain a field "as-built" set and will turn a legible copy of the "as- built" over to the Project Manager at the conclusion of the project. As-builts will document any deviations to include accurate dimensions and locations of any work not accomplished per plans. Any deviations to the plans must first receive Project Manager review and District approval as stated in the General Conditions.

**10. NOTIFICATIONS**

Contractor shall provide written notification to Project Manager of the work of impending work at least seven (7) days prior to beginning construction. Said notices shall first be approved by Project Manager and shall contain a general description of the work, dates work will be performed, descriptions of areas where travel and parking will be restricted, and access roads which will be closed to through traffic or where traffic will be restricted. Contractor shall maintain, as a minimum, one (1) access location to each treatment facility at all times.

**11. COMPLIANCE WITH CONTRACT DOCUMENTS**

Contractor shall comply with the Contract Documents, including timely completion of work each day, backfilling and securing trenches each day, placement of concrete, work site cleanup, control of traffic, placement of signs, placement of barricades, and use of flashing lights. If Contractor does not comply with the Contract Documents, then Owner shall provide the required labor, materials, and equipment to perform same and shall deduct the cost from monies otherwise due Contractor under the contract.

**12. SURVEY MONUMENTS AND BENCHMARKS**

The Contractor shall not disturb existing survey monuments or benchmarks. Upon Contractor's request, owner shall locate, mark, reference and prepare a Corner Record prior to construction, for all monuments that might be disturbed pursuant to Business and Professions Code, Sections 8700 to 8805 of the Land Surveyor's Act, specifically Section 8771(b). Contractor shall notify Owner at least 72 hours prior to working near any monuments or benchmarks. Should these monuments be destroyed or disturbed, Contractor shall have a Licensed Land Surveyor registered in the State of California reset the monuments and file a Corner Record or a Record of Survey with the County Surveyor prior to Owner recording a Certificate of Completion for the project.

**13. EMERGENCY VEHICLE AND RESPONSE ACCESS**

Access for emergency vehicle response shall be provided as required throughout the project. All conditions imposed by emergency agencies (police, fire, or ambulance) due to access limitations shall be the responsibility of the Contractor, including costs of same.

**14. DATA TO BE SUBMITTED BY CONTRACTOR**

Contractor shall furnish Owner the following data and said data shall be approved by Owner prior to ordering materials. Data (two copies) shall be submitted to Owner for approval. Contractor

shall then submit three copies of all approved data to Owner for use during construction.

- A. All data required by the Contract Documents including but not limited to trench protection, construction schedule, encroachment and excavation permits, and emergency telephone numbers.
- B. Site specific Injury and Illness Prevention Plan, Safety Plan and Confined Space Program.
- C. All data and submittals on imported backfill materials, Portland Cement Concrete, Storm Drain Materials, Retaining Wall Materials and crushed miscellaneous base.
- D. A detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for worker protection from the hazard of caving ground during excavation of any trenches five feet or more in depth. Said plan shall be signed and stamped by a registered civil or structural engineer licensed in the State of California. Contractor will not be allowed to excavate until the executed and approved shoring plan has been submitted.

## **15. EXISTING UNDERGROUND UTILITIES**

The Contractor is to notify Underground Service Alert at 1-800-227-2600 (or 811), 48 hours prior to any construction operations in order for utilities to mark and identify locations of existing facilities.

Special precaution shall be taken by the Contractor to protect existing utilities that may not be noticeably visible while working in the road shoulder areas.

Unless otherwise indicated on the plans or directly by the utility owner, all utilities shall be protected in place and service maintained. The utilities were plotted based on information provided from the respective utility owners. The accuracy of plotted utilities is not guaranteed.

Throughout the project, utility poles, fire hydrants, water meters, gas meters, water valves and gas valves will be located in the construction area. If applicable, the Contractor shall perform his grading operations around these and construct embankment using pneumatic tampers to achieve the required compaction.

The Contractor shall protect existing manholes in place and costs therefor shall be considered as included in the prices paid for Pavement and Sidewalk Repairs. No prior arrangements have been made with utility owners to lower, raise, or otherwise adjust existing manholes. It is the Contractor's responsibility to make such arrangements and adjustments, at no additional cost to the Department. Where utility owners do not participate in such arrangements, and finished grade of proposed pavement is above existing manholes, said manholes shall be marked and paved over.

The Contractor shall protect existing valve cans in place and adjust those that are adjustable to finished grade during paving operations. The Contractor shall be solely responsible for coordinating valve can adjustments with utility owners, at no additional cost to the Department. Where valve cans cannot be adjusted, and utility owners do not participate in coordinating adjustments, and finished grade is above existing valve cans, said valve cans shall be marked and paved over. The Contractor is responsible for performing exploratory excavations

(hand-augering or air knifing) to clear the borehole locations. All associated costs with hand-augering or air knifing shall be included in the unit bid price per lineal foot of drilling and no additional compensation will be allowed.

## **16. EXPLORATORY EXCAVATION (POTHOLING)**

Existing utility locations shown on the Construction Drawings are based on available records and are considered approximate. Water service locations, where shown, are based on approximate locations of existing meter boxes. Gas services, where shown, are based on approximate location of visible "gas" markings. Where underground main conductors or conduits such as water, gas, sewer, telephone, electric power, cable television, or other utilities are shown on construction drawings, Contractor shall assume that a service lateral from each utility facility extends to every parcel or property, whether or not a service lateral is shown.

All facilities shown specifically on the construction drawings, or which have been marked by their respective owners and impact the construction to include storm drain installation shall be potholed. All potholing shall be completed, and the results furnished to the Owner at least ten days prior to ordering any materials. Changes or delays caused by Contractor's failure to perform "potholing" and resultant interference with location of work shall not be eligible for extra work compensation or time extension.

Upon learning of the existence or location of any utility facility omitted from or shown incorrectly on construction drawings, or improperly marked or otherwise indicated, Contractor shall immediately notify the Owner, providing full details as to depth, location, size and function and impacts to proposed construction.

Contractor shall not interrupt or disturb any utility facility without authority from the utility company or order from Owner. Where protection is required to ensure integrity of utility facilities located as shown on the construction drawings or visible to Contractor or marked or otherwise indicated as stated herein, Contractor shall, unless otherwise provided, furnish and place all necessary protection at no additional cost to Owner.

Owner has no information about compaction of trench backfill for said existing utilities and improvements. If said trench backfill fails during construction of proposed road and storm drain facilities, Contractor shall remove and replace said backfill, repair existing facilities (if damaged), compact as specified herein, and remove and replace any asphalt concrete pavement and Portland cement concrete as required, all at no additional cost to the Owner.

## **17. LANDSCAPING**

All existing landscape, sprinklers and irrigation lines in conflict with construction shall be salvaged, removed or relocated and capped, only as necessary to clear the way for rough and final grading for construction of graded sidewalk. The Contractor has an option to replace defective or old materials with new sprinkler system and irrigation lines. Contractor shall provide additional length of lines and sprinklers system if needed in an area as directed by the Dis or as shown on the plan.

Prior to backfilling, the Contractor shall test the sprinklers and irrigation lines at each and every station to ensure the system is working properly. Any leaks shall be repaired and replaced in kind.

immediately at the expense of the Contractor. If replacement is necessary, sprinkler heads including new pipe and fitting ranging from ½" to 1" in sizes, shall be Polyvinyl Chloride (PVC) Pipe, Sch 80 and use an approved quality solvent and primer for pipe and fitting connections.

## **18. REMOVE CONCRETE**

This work shall consist of removal and disposal of existing Portland Cement Concrete within the limits shown on the plans and set in the field by the District, and shall conform to the provisions in these Special Provisions.

Portions of existing concrete sidewalks, curbs, gutters, ramps, spandrels and driveways which interfere with construction shall be removed.

Portions of existing concrete sidewalks shall be saw cut and removed as necessary for installation of the roadside sign posts.

Where no joint exists between concrete to be removed and concrete to remain in place, the concrete shall be saw cut in a neat, true line to a minimum of 0.17 foot before concrete is removed. The locations of the cut lines shown on the plans are approximate only; the exact location will be determined by the District.

Removed concrete shall become the property of the Contractor and disposed of properly in compliance with local codes at Contractor's expense.

## **19. EXCAVATION, BEDDING, AND BACKFILL**

Contractor is advised that rock or unacceptable backfill material may be encountered during Contractor's operations and course of work. Where such materials may be encountered, Contractor shall excavate said material by any method Contractor deems necessary and as approved by the Owner and furnish and install suitable bedding and backfill material all in accordance with the Contract Documents.

Backfill materials shall be either approved commercial import material or select native material (screened or washed). All rock or unacceptable trench backfill material shall be hauled to and discarded at a legal disposal site at Contractor's expense. Contractor shall not dispose of such material on vacant private or public property with or without permission.

## **20. EXCESS EXCAVATED MATERIALS**

Excess soils from excavation shall be spoiled entirely at Contractor's expense off the project site at an approved legal disposal area. In no instances shall excess spoil become a public nuisance or threat to public safety.

## **21. RESTORATION**

All work sites shall be restored to pre-job conditions and shall meet the requirements of District and property owner(s). The Contractor shall repair or replace damaged improvements as directed by the District.

The District is obligated to keep visual impact of the work sites to a minimum; therefore, the Contractor is required to restore all areas altered by construction to pre-existing conditions, unless shown otherwise on the Drawings.

Such areas shall include but shall not be limited to areas used for travel, parking, and storage of

vehicles, equipment and materials or adjacent areas impacted by facilities construction.

The Contractor shall be responsible for the proper disposal of all waste materials resulting from project operations, including rubbish, packaging materials, discarded equipment parts, and damaged construction materials, in a manner and at locations suitable to the District and all health and other regulatory agencies. All pavement grindings shall be hauled offsite to an approved disposal area through the City or County.

Contractor shall protect in place or remove and replace all existing utilities and public and private improvements (except those improvements specified to be removed) including, but not limited to, berms, curbs, gutters, concrete pavement, asphalt concrete pavement, walkways, sidewalks, cross gutters, spandrels, medians, driveways, mailboxes, newspaper stands, bikeways, trail ways, bus stops, storm drains, landscaping, landscaping materials, landscape irrigation systems, traffic striping, power poles, guy wires, street lights, signs, guardrails, traffic signal facilities, fences, and walls. If said facilities are undermined or disturbed as determined by District, said facilities shall be removed and replaced. Contractor shall correct or replace any damaged utilities or improvements as part of the contract work at no additional cost. Certain existing improvements are to be protected in place or removed and replaced. Contractor shall protect in place or remove and replace all damaged existing public and private improvements whether they are specifically noted on the technical specifications or plans or not.

If colored or textured sidewalk, curb and gutter, or stamped concrete medians are removed, Contractor shall replace with colored and/or textured sidewalk or stamped concrete medians to match existing.

Daily Restoration. Contractor shall, as a minimum, have accomplished by the end of each work period, the following:

- a. Remove all debris, construction materials, and equipment from public and private streets, and private property.
- b. Clean all work areas including, but not limited to, washing and sweeping all streets, driveways, gutters, sidewalks, bikeways, and trail ways, and removing all trash. Contractor shall sweep work areas more than once a day if requested by District.

In addition, Contractor shall inspect entire job site at the end of each workday and frequently on Saturdays, Sundays, and holidays and correct any traffic, pavement (temporary or permanent pavement) or backfill deficiencies. Contractor shall maintain streets including backfilled trenches in good repair.

If District receives complaints from individuals or agencies affected by the project, Contractor shall take immediate action to correct the situation as directed by the District. If Contractor receives complaints directly, Contractor shall report same immediately to District. Thereafter, Contractor shall take immediate action to correct the situation as directed by the District.

## **22. LOCAL CONDITIONS**

The Contractor shall assess, by personal investigation, local conditions affecting the work. Neither the information contained in this section nor that derived from any maps or plats, or from the County or employees shall act to relieve the Contractor of any responsibility herein or from

fulfilling any and all of the terms and requirements of this Contract.

Nuisance water, such as rainfall, irrigation water, or local surface runoff may occur within construction areas during the period of construction under this contract. The Contractor, by submitting their bid, will be held responsible for having investigated the risks arising from such water and shall take all due measures to prevent delays in progress of the work caused by such waters.

## **23. GENERAL ENVIRONMENTAL MEASURES**

**A-1:** The Contractor shall comply with the following mitigation measures to reduce impacts from construction equipment:

- a) Construction equipment shall be maintained in proper tune.
- b) Gasoline, CNG or electrical powered equipment instead of diesel powered equipment shall be used whenever possible;
- c) Use of heavy equipment shall be suspended during first stage smog alerts.
- d) All construction equipment shall be prohibited from excessive idling; and
- e) The use of “clean diesel” equipment if modified engines (catalyst equipped, or newer Moyer Program retrofit) are available at reasonable cost shall be encouraged.

**A-2:** To reduce fugitive dust emissions during construction, the use of best available control measures (BACMs) consistent with Rule 403 for control of fugitive dust (South Coast Air Quality Management District 2005) shall be implemented during grading. These measures include the following:

- a) Prior to moving any soil, apply water to the surface of the soil not more than 15 minutes prior to moving soil.
- b) For any stockpiled soils, either cover soils or apply water twice per hour.
- c) Water all active construction areas at least three times daily when active earthwork is occurring or as needed to minimize dust emissions. If evidence of dust is observed, increase to a minimum of four times per day.
- d) Cover all haul trucks or maintain at least two feet of freeboard in trucks used to transport soil to the site.
- e) Pave or apply water twice per hour to all unpaved parking or staging areas during active operations.
- f) Reduce speed on unpaved roads to less than 15 miles per hour.
- g) Sweep or wash any site access points within 30 minutes of any visible dirt deposition on any public roadway.
- h) Cover or water twice daily any on-site stockpiles of debris, dirt, or other dusty materials.
- i) Suspend all operations on any unpaved surface if winds exceed 25 miles per hour.
- j) Limit daily disturbance areas to 5 acres or less.
- k) Move no more than 5,000 cubic yards of soil daily.
- l) Encourage carpooling for construction workers.
- m) Park construction vehicles off traveled roadways.
- n) Wet down or cover dirt hauled off-site.
- o) Wash or sweep access points daily.
- p) Encourage receipt of materials during non-peak traffic hours; and
- q) Sandbag the construction site for erosion control.

## **END OF SPECIAL CONDITIONS**