

**CITY OF SACRAMENTO**  
1231 I Street, Sacramento, CA 95814

**Permit No: 0404028**

**Insp Area: 3**  
**Thos Bros: 298A7**

**Site Address: 6100 S ST SAC**  
Parcel No: 011-0090-010  
N

**EMERGENCY MANAGEMENT CENTER**

**Sub-Type: REP**  
**Housing (Y/N):**

**CONTRACTOR**  
SERVICE STATION ELECTRIC INC  
3283 LUYUNG DR  
RANCHO CORDOVA, CA 95742

**OWNER**  
SACRAMENTO MUNICIPAL UTILITY DISTRICT  
6201 S ST  
SACRAMENTO CA 95852-1830

**ARCHITECT**

**Nature of Work: RELOCATE ELECTRICAL WIRING AWAY FROM FUEL TANKS. ADD SENSOR TO TRANSITION SUMP**

**CONSTRUCTION LENDING AGENCY:** I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name \_\_\_\_\_ Lender's Address \_\_\_\_\_

**LICENSED CONTRACTORS DECLARATION:** I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class \_\_\_\_\_ License Number 777958 Date 3-18-04 Contractor Signature \_\_\_\_\_

**OWNER-BUILDER DECLARATION:** I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

**PAID**  
**CITY OF SACRAMENTO**  
**MAR 18 2004**  
**NORTH PERMIT CENTER**

I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_  
Date 3-18-04 Owner Signature \_\_\_\_\_

**IN ISSUING THIS BUILDING PERMIT,** the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 3-18-04 Applicant/Agent Signature \_\_\_\_\_

**WORKER'S COMPENSATION DECLARATION:** I hereby affirm under penalty of perjury one of the following declarations:  
I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.  
I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE COMP INS FUND Policy Number 238-0000649 Exp Date 08/01/2004

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 3-18-04 Applicant Signature \_\_\_\_\_

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.**

CITY OF SACRAMENTO  
**APPLICATION FOR COMMERCIAL BUILDING PERMIT**

*North Area - 2101 Arena Blvd Ste 200*

DEVELOPMENT SERVICES DIVISION  
 PERMIT SERVICES SECTION

ACTIVITY # CA 4028 Insp. Area

1231 I Street, Rm. 200  
 Sacramento, CA 95814 (916) 264-7619 FAX 264-7046

Applicant MUST complete ALL Unshaded areas

ADDRESS 6100 "S" Street, Sacramento (SMUD) Suite \_\_\_\_\_

PARCEL # EMS B200

<b>CONTACT</b> Name <u>David Chanell</u> Address <u>11367 Pyrites way Ste M Rancho Cordova</u> Phone <u>916 858-8303</u> FAX <u>858-3305</u> E-mail <u>ssedave@gotnet.net</u>		<b>LICENSED CONTRACTOR</b> Lic No. # <u>777958</u> Name <u>Service Station Electric Inc</u> Address <u>11367 Pyrites way Ste M Rancho Cordova</u> Phone <u>(916) 858-8303</u> FAX <u>858-3305</u> E-mail <u>ssedave@gotnet.net</u>	
<b>ARCHITECT/ENGINEER</b> Name _____ Address _____ Phone _____ FAX _____ E-mail _____		<b>OWNER</b> Name <u>SMUD</u> Address _____ Phone _____ FAX _____ E-mail _____	

→ Will permittee have any employees on the jobsite?  No  Yes → INSURANCE CO: State Comp Fund  
 → WORKER'S COMPENSATION POLICY # State 238649-03 EXPIRATION DATE: 8/1/04

NATURE OF WORK IN DETAIL: Relocate electrical wiring away from fuel tanks to a vault in the planter - add one tank in the center of the site dump, add conduit seals as required by NEC

OCCUPANT/TENANT: \_\_\_\_\_ VALUATION: \$ 6488<sup>00</sup>

FLOOD STATUS: _____		S.C.A.T. _____								
JOB DESCRIPTION: _____		BLDG	SHELL	APT	TI ( )	REM ( )	SW	FIRE	ADD	OTH
INSPECTION DISCIPLINES		BLDG	MECH	PLUMB	ELEC	SITE	FIRE			
# Stories	Lt. flr Area	Total Area	Use Zone	Occp Group	Const type	Fire Req. Y/N		Fed Code	Viol. File	
						SPR	ALARM		(H)	(Quad)
B	L	P	M	E	F	S		D	PW	UTIL

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

REGIONAL SANITATION FEES?  Yes  No HEALTH DEPARTMENT?  Yes  No

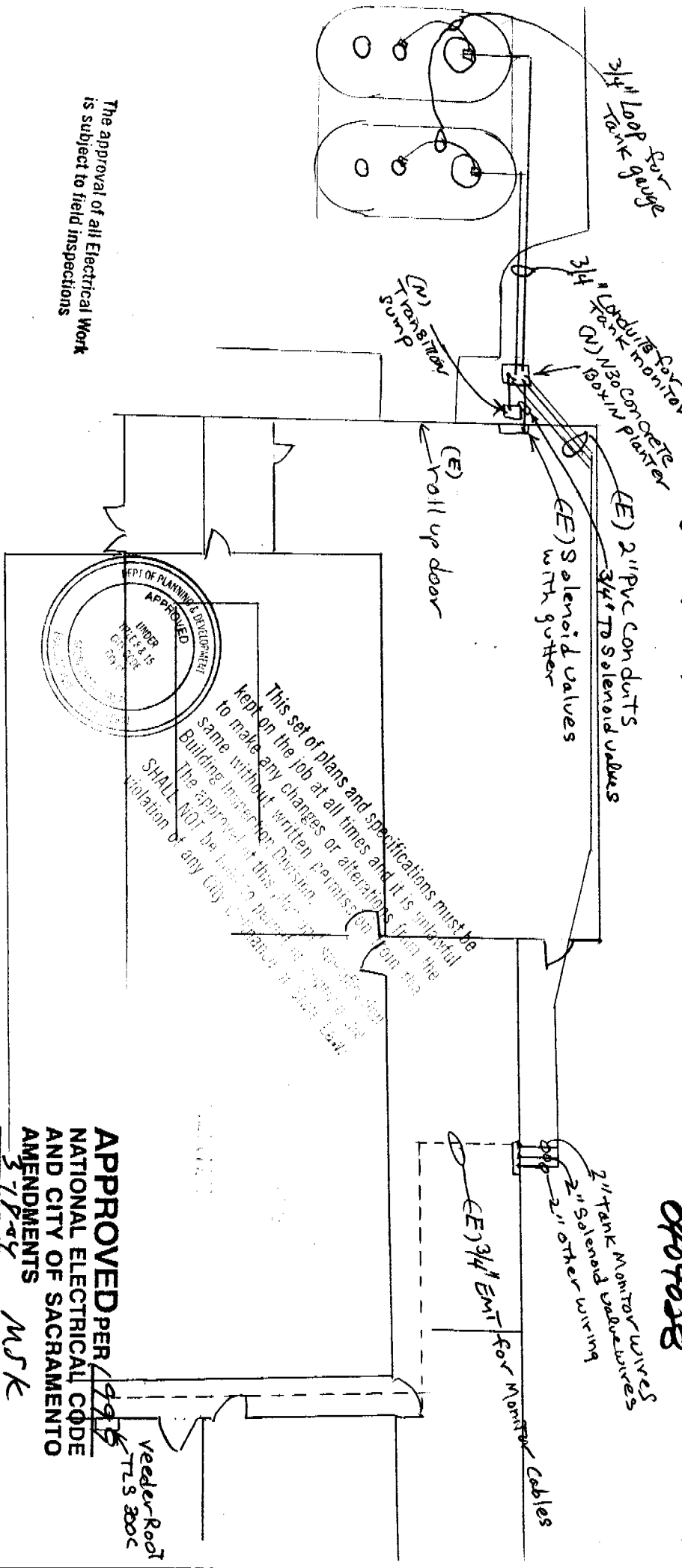
WATER FLOW TEST FOR NEW BUILDINGS OR ADDITIONS?  Provided  Faxed

Comm.

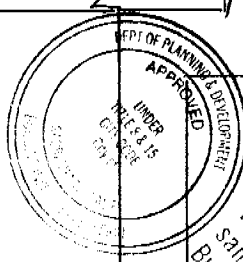
# SMUD Emergency Mgmt Center "S Street" Sacramento

## CITY COPY

0404028



The approval of all Electrical Work is subject to field inspections



This set of plans and specifications must be kept on the job at all times and it is unlawful to make any changes or alterations from the same without written permission from the Building Inspector Division.  
The approval of this plan by the Building Inspector SHALL NOT be held to prevent or constitute violation of any City Ordinance or Code Book.

**APPROVED PER 1995**  
NATIONAL ELECTRICAL CODE  
AND CITY OF SACRAMENTO  
AMENDMENTS  
3/18/04 MSK  
ELECTRICAL DIVISION

Drawn by 3/1/04



- NOTE:**
1. Veeder-root System and cables are intrinsically safe and cannot cause a fire.
  2. There will be no power wiring to these tanks after this project is completed.
  3. The power wiring for the Solenoid valves is out of the Hazardous Area of the Fuel Tanks.
  4. Explosion Proof seals shall be installed on the conduits for the Fuel Tanks before they leave the tank area to prevent any fuel vapors from transferring to the area which has power wiring.
  5. The conduits for the Fuel Tank will be PVC Schedule 40 except at the ends where rigid galvanized shall be used per N.E.C. art. 514.
  6. Boxes shall be installed on the conduits where they terminate in the N 30 underground vault.
  7. All Veeder-root sensors shall be installed per manufactures specifications.



**SERVICE STATION ELECTRIC INC**  
DAVID CHANNELL  
License No. C-10 777958

11367 PYRITES WAY, RANCHO CORDOVA, CA 95670  
(916) 858-8303 Fax (916) 858-3305  
e-mail sseedave@go.net

Petroleum • Environmental • Commercial

6100 S Street  
Microdim @ Final

CLAIRIFICATION OF 2.5 Electrical Installation

The existing power conduits for the diesel fuel oil piping solenoid control valves is installed in one 2" PVC conduit that ran from the inside gutter out to an underground sump at the diesel fuel tank. It then runs to the valves in a 3/4" conduit to the solenoid valve gutter.

The new plan is to remove the conduits from this tank sump and install them in a new underground vault in the planter near the wall outside but near the solenoid valves. A Nema 3R J-box will be installed to protect all wiring. Power wires will be shortened as needed.

The existing TLS sensor wiring is also in a 2" PVC conduit that is installed in the same sump at the diesel tank and branches to the various areas of the tanks to be monitored.

The new plan is to remove the 2" conduit with the gas & oil resistant TLS Monitor cable and install it in the vault in the planter. Install a Nema 3R J-box on this conduit, then extend 3/4" conduits to the tanks with conduit seals on conduits leaving the Hazardous area per N.E.C. Art. 504 Intrinsically Safe Systems.

(Separate boxes and conduits must be used to keep all power wiring separated from the Intrinsically Safe Wiring.)

By removing the power wiring from the Fuel Tank Area, it becomes an area where only Intrinsically Safe Wiring is installed.

Article 540 requires that each metal J-Box be grounded and bonded in accordance with 250.100.

Article 540.70 Exception: Seals shall not be required for enclosures that contain only intrinsically safe apparatus, except as required by 501.5 (A) exception (d) and (E) (2)

The Nema 3R Box and conduits for the Intrinsically Safe Wiring shall be labeled per Art. 504.80

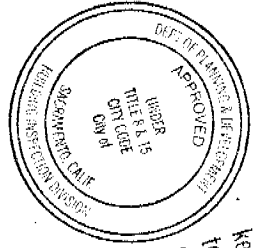
The approval of all Electrical Work  
is subject to field inspections



This set of plans and specifications must be kept on the job at all times and it is understood that no changes or alterations from the same without written permission from the Building Inspection Division.  
The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

**2.5 Electrical Installation Including Electrical Control of Diesel Fuel Oil Piping Solenoid Control Valves and Veeder-Root TLS 300C Tank Monitoring System**

The Contractor shall supply all labor, equipment and materials for reinstallation of the electrical control of the diesel fuel oil piping solenoid control valves and the reinstallation and upgrade of the existing Veeder-Root TLS-300C tank monitoring system. The Contractor shall reuse the existing cable and conduit for the existing solenoid control valves and the existing tank monitoring probes and sensors to the maximum extent possible. New installed conduit shall be PVC schedule 40 for underground conduit and rigid galvanized steel for aboveground conduit.



This section shall be kept on the job at all times. Any changes or alterations from the original specifications shall be made without written permission from the Building Inspection Division. The approval of this plan or specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

All electrical work shall be performed in accordance with the National Electric Code and the Veeder-Root TLS-300C Site Preparation and Installation Instructions. In addition all electrical work installed inside the new tank pipe sumps shall be performed in accordance with the National Electric Code for Hazardous Locations as specified in Chapter 5 of the Code. All junction and terminal boxes installed inside the new tank pipe sumps shall be installed such that the bottom of all junction and terminal boxes are a minimum of 2 inches above the top of the highest penetration entering the sump.

All electrical conduit and cable that was removed and pulled back to support removal and replacement of the tank pipe sumps shall be reinstalled to the original wiring configuration in accordance with the above requirements. In addition, the Contractor shall install new underground and in building conduit and cable from the new pipe transition sumps to the existing Veeder-Root TLS-300C tank monitor for connection of the new sump sensor to the monitor.

Reinstallation and upgrade of the Veeder-Root tank monitoring system shall include documenting all wiring information on the circuit directory located on the back of the right-hand door as required by Section 4.B. and the Wiring Record as required by Appendix A of the Veeder-Root Site Preparation and Installation Instructions. In addition, reinstallation and upgrade of the tank monitoring system shall include performing all system setup of the system necessary for a completely operational system as required by the Veeder-Root TLS-300C and TLS-300I System Setup Manual.

**2.6 Tank Pipe Sump and Pipe Transition Sump Seals**

The new tank pipe sump and pipe transition sump installations shall be liquid tight and shall prevent outside water from coming into the sump and prevent any leaking product entering or originating from within the sump from escaping into the underground environment. All conduit and pipe entering the

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