

#100

**BID TO THE
CITY OF SACRAMENTO, CALIFORNIA
PURCHASING DIVISION**

**BIDS MUST BE RECEIVED BY THE
CITY CLERK, ROOM 203, CITY HALL
PRIOR TO 10:30 A.M., TUESDAY
NOVEMBER 30, 1982**

FOR: VARIOUS TYPES OF TRAFFIC SIGNAL
CONTROL EQUIPMENT

BID NO: 538

Name of Bidder _____ Telephone _____

Type of Business: Corporation, Co-partnership, Individual doing business under his own name,
 Individual doing business using a firm name.

Business Address: _____
Street City State Zip Code

To the City of Sacramento:

The undersigned, as bidder, certifies that the only persons or parties interested in this bid as principals are those named herein as bidder; that this bid is made without collusion with any other person, firm, or corporation; that in submitting this bid he has examined the "General Conditions and Instructions to Bidders" and the specifications; that he proposes and agrees if this bid is accepted, he will execute and fully perform the contract for which bids are called; that he will perform all the work and / or furnish all the materials specified in the contract, in the manner and time therein prescribed, and according to the requirements as therein set forth; and that he will take in full payment therefor, the prices set forth in the attached schedule.

Typed or Printed Name and Title

Signature

Address (If different than above business address)

PLEASE READ CAREFULLY BEFORE SIGNING

To be signed by authorized corporate officer or partner or individual submitting the bid. If bidder is: (Example)

1. An individual using a firm name, sign: "John Doe an individual doing business as Blank Company."
2. An individual doing business under his own name, sign: your own name only.
3. A co-partnership, sign: "John Doe and Richard Roe, co-partners doing business as Blank Co., By John Doe, co-partner."
4. A corporation, sign: "Blank Company, by John Doe, secretary," (or other title).

FOR CITY USE ONLY

Bid was opened on above date and at prescribed place.

Bid bond required No Yes Amount _____

Received: Cash Cashiers or Certified Check Surety Bond

City Clerk/Purchasing Agent

Approved as to form and legality

City Attorney

GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDER

NO BID IS IN LEGAL FORM UNLESS THE FOLLOWING INSTRUCTIONS ARE FULLY COMPLIED WITH

1. Bid must be submitted on this printed bid form and sealed in the envelope supplied.
2. All bids shall be clearly and distinctly written without erasure or interlineation, and properly signed by an authorized party, who shall indicate the capacity in which the signature is executed.
3. Alternate bids are invalid unless invited and covered by the specifications.
4. If required, a bid bond in the amount stated on the front of this form must accompany this bid. Payment must be made by cash, cashier's or certified check, or by surety bond.
5. All bids must be delivered to the designated recipient not later than the time specified on the front of this form.
6. No bidder shall be interested in more than one bid as provided by City Code Section 57.302.
7. The right to reject any and all bids is reserved by the City.
8. The City reserves the right to waive any informalities or minor irregularities in connection with bids received.
9. All provisions of Chapter 57 of the City Code are applicable to any bid submitted or contract awarded pursuant thereto.
10. **Faithful Performance Bond.** The successful bidder will [] will not be required to submit a faithful performance bond, in a form approved by the city attorney, in the amount of _____.
11. **Cash Discounts.** Cash discounts offered for payment in less than ten (10) days will not be considered as a basis of award. Cash discounts offered for payment in ten (10) or more days will be subtracted from the total bid price for the purposes of bid evaluation. Any cash discount offered by the successful bidder will be accepted by the City of Sacramento, whether or not it was considered as a basis of award.
12. Bids will be opened, in public, in the City Council Chambers, City Hall, 915 - Eye Street, Sacramento, California, at ~~10:30~~ ^{10:30} a.m., NOVEMBER 30, 1982. (Bids must be submitted prior to ~~10:30~~ ^{10:30} a.m.)
13. Within thirty (30) days after the bid opening a contract will be awarded by the City to the lowest responsible bidder, subject to the right of the city to reject all bids, as it may deem proper. The time for awarding a contract may be extended an additional thirty (30) days, at the sole discretion of the City, if required to evaluate bids or for such other purpose as the City may determine, unless the Bidder objects to such extension in writing with his bid. The "lowest responsible bidder" is defined as follows:

In addition to price in determining the lowest responsible bidder under the provisions of this chapter, consideration shall be given to: (i) the quality and performance of the supplies to be provided by the bidder; (ii) the ability, capacity and skill of the bidder to perform the contract or effectuate the transaction; (iii) the ability of the bidder to perform the contract or effectuate the transaction within the time specified, without delay; (iv) the character, integrity, reputation, judgement, experience and efficiency of the bidder; (v) the quality of bidder's performance on previous purchases by, or contracts with, the City; and (vi) the ability of the bidder to provide future maintenance, repair parts and services for the supplies provided. (Section 57.102)

In addition to the above considerations, the City will also consider which bids will result in receipt by the City of sales or use tax under the Provisions of Part 1.5 of Division 2 of the California Revenue and Taxation Code and Article III of Chapter 41 of the Sacramento City Code and shall deduct the amount of such sales or use tax which will be received from any such bid. (Ordinance No. 4064)

THE CITY CANNOT ACCEPT A BID FAILING TO COMPLY WITH ANY OF THE ABOVE REQUIREMENTS

Vendors not wishing to bid this particular requirement are encouraged to return the bid package marked "no bid" with a brief statement explaining the reason for non-response: not interested at this time, not our field of manufacture/expertise, etc. This will enable us to maintain a current list of responsive bidders as well as verify receipt of the bid by your company.

CITY OF SACRAMENTO
SACRAMENTO, CALIFORNIA

BIDDING SHEET FOR VARIOUS TYPES OF TRAFFIC SIGNAL CONTROL EQUIPMENT

For furnishing to the City of Sacramento various types of traffic signal control equipment in accordance with the following provisions and the attached specifications.

The quantities shown are based upon the best estimates available and are subject to increase or decrease.

<u>Item Number</u>	<u>Quantity</u>	<u>Description</u>	<u>Unit Price</u>	<u>Extension</u>
1.	4 each	Type "M" cabinet	\$ _____	\$ _____
2.	3 each	Type "R" cabinet	_____	_____
3.	4 each	Four (4) phase controller without phase modules	_____	_____
4.	6 each	Eight (8) phase controller without phase modules	_____	_____
5.	2 each	Eight (8) phase controller harness	_____	_____
6.	51 each	Phase modules, group 1	_____	_____
7.	19 each	Phase modules, group 2	_____	_____
8.	12 each	Detector sensors	_____	_____
9.	51 each	Load switches	_____	_____
10.	4 each	Four (4) phase fail safe monitors	_____	_____
11.	5 each	Eight (8) phase fail safe monitors	_____	_____
			Sub-Total	\$ _____
			5% Sales Tax	_____
			Total Bid Price	\$ _____

Manufacturer and Model Numbers:

Item #1 _____

Item #2 _____

Item #3 _____

Item #4 _____

Item #5 _____

Item #6 _____

Item #7 _____

Item #8 _____

Item #9 _____

Item #10 _____

Item #11 _____

BIDDING SHEET FOR VARIOUS TYPES OF
TRAFFIC SIGNAL CONTROL EQUIPMENT

Award

The City of Sacramento reserves the right to make an award on any item, group of items or in the aggregate to that/those lowest responsible bidder(s) whose proposal(s) is/are most responsive to the needs of the City.

Prompt Payment Discount

Cash discount of _____ % for payment within _____ calendar days which will be computed from the date delivery is made and accepted or the date a proper invoice is received, whichever is later.

Delivery

Delivery will be made within _____ days after receipt of order. The City of Sacramento will accept any and all partial deliveries.

F.O.B. Destination: City of Sacramento
c/o Central Stores
5730-24th Street, Building #4
Sacramento, CA 95822

BIDDER'S NAME: _____

DO NOT DETACH THIS SHEET - SUBMIT ENTIRE BID PACKAGE AS YOUR PROPOSAL

SPECIFICATIONS FOR VARIOUS TYPES OF
TRAFFIC SIGNAL CONTROL EQUIPMENT

CABINETS

1. Type M Type M cabinets shall be either sheet steel or aluminum in construction and shall be wired complete in all provisions for four (4) vehicle phases and two (2) pedestrian phases.

Wired harness shall be provided and installed for the installation of two (2) Type A inductive vehicle detectors. The equipment when installed shall be accessible from the front of the controller cabinet without the removal of any other equipment.

The controller, load switches, detectors and fail safe device shall not be supplied as part of the cabinet.

2. Type R Type R cabinets shall be either sheet steel or aluminum and shall be complete in all provisions for eight (8) vehicle phases and two (2) pedestrian phases. Wired harness shall be provided and installed in the cabinet for the installation of eight (8) Type A inductive vehicle detectors, one (1) for each vehicle phase.

Type R cabinets shall have no terminations below fifteen inches (15") from the bottom of the cabinet.

3. General Conditions for Type M and Type R Cabinets

- a. Circuit board construction for cabinet wiring will not be acceptable.
- b. Mounting hardware including anchor bolts, shelves and all other appurtenances shall be provided as required.
- c. Each flasher unit supplied shall be capable of flashing a minimum of thirty (30) amperes per load.
- d. All auxiliary equipment as specified in the State Specifications shall be supplied.
- e. Steel cabinets shall be painted as follows:

"The finish coat on all interior surfaces shall be 2.5 mil minimum thickness. The finish coat on all exterior surfaces shall be 5 mil minimum thickness and shall be aluminum in color. All coatings shall comply with Paragraph 86-2.16 'Painting' of the State Specifications.

CONTROLLER HARNESS

The controller harness shall be a separate harness and shall be complete as to all terminal boards, terminations and plug connectors for a NEMA Type 8 Phase traffic signal controller. The harness shall be completed wired with NEMA controller connectors "A", "B", and "C". The controller harness shall be adoptable for installation in a Type R cabinet.

TRAFFIC SIGNAL CONTROLLER UNITS

1. Four Phase Controller Unit - The 4 phase controller unit shall be NEMA Type 90 and shall be of modular design and shall be completely wired and equipped for 4 phase operation.

All integrated circuits within the controller unit shall be mounted in sockets and shall be removable without the use of tools. Phase modules shall not be required to be provided and installed as part of the traffic signal controller unit.

2. Eight Phase Controller Unit - The 8 phase controller unit shall be NEMA Type 90 and shall be of modular design and shall be completely wired and equipped for 8 phase operation.

All integrated circuits within the controller unit shall be mounted in sockets and shall be removable without the use of tools. Phase modules shall not be required to be provided or installed as part of the traffic signal controller unit.

Each 8 phase controller unit shall be provided with a conditional service feature. The conditional service feature shall operate as follows:

Condition Service - Conditional service shall be programmable on the front panel. Activation of this signal shall cause the controller to monitor the time remaining on any even numbered phase which is opposed by an even numbered phase that has gapped out. If the time remaining on the non-gapped phase is sufficient to allow at least a minimum service of its associated odd numbered phase, the controller shall cause the gapped out phase to terminate and reservice the odd numbered phase, even though conflicting calls may be registered.

The conditional service logic shall be modular and may either be a separate shelf mounted module or may be a controller mounted module. The conditional service logic integrated circuits shall be mounted in sockets and shall be removable without the use of tools.

PHASE MODULES

Phase modules shall be modular and shall conform to the State Specifications. All integrated circuits in the phase module shall be mounted in sockets and shall be removable without the use of tools.

Phase modules shall be Type DP.

Detectors

Detectors shall be Type A and shall conform to the following:

INPUT	120 VAC \pm 20%, 50/60 Hz, 5 Watts.
OUTPUT	Plug, In Relay, 5 Amp N.O. & N.C. Contacts.
CONNECTOR	10 Pin MS. Front Mounted. 4 Foot Harness Standard.
FUSE	3/10 Amp. Front Mounted.
ADJUSTMENT	Single Knob. Requires only Initial Adjustment.
DRIFT COMPENSATION	Automatic. 5% L Range.
TEMPERATURE RANGE	- 40° to + 180° F.
SEMI-CONDUCTORS	100% Silicon.
LOOP INDUCTANCE RANGE	20-700 Microhenries.
MAXIMUM SENSITIVITY	.02% Change in Loop Inductance. Three Step Adjustable.
MAXIMUM LEAD-IN	1000 Feet.
PRESENCE TIME	Three Step Adjustable. Maximum Exceeds 1 Hour at 1% at L, 2 min. at .05% L.
FREQUENCY SEPARATION	Three Position Mode Switch provides Postive Frequency Separation.
LIGHTNING PROTECTION	Total Circuit Optimized for Lightning Protection including Loop, Line and Earth Circuits.
DIMENSIONS	6' H x 2' W x 6' D. 3 Pounds.

LOAD SWITCHES

Load Switches shall conform to the State Specifications.

FAIL SAFE MONITORS

Fail safe monitors shall conform to the NEMA Specifications for 4 phase controllers and for 8 phase controllers.

GENERAL CONDITIONS

1. All equipment supplied shall conform to the State of California Business and Transportation Agency Department of Transportation Standard Specifications and Standard Plans dated January 1981 which shall be referred to as the "State Specifications."
2. All cabinets, controllers, controller harness and phase modules shall be of the same manufacturer and shall be capable of integrating into complete traffic signal controller system.