

**CONDUCTOR TABLE**

| CONTROL FUNCTION  | CONDUCTORS    |            | CONDUIT RUNS |      |    |    |    |      |    |    |   |
|---|---------------|------------|--------------|------|----|----|----|------|----|----|---|
|   | I.M.S.A. SIZE | INSULATION | 1            | 2    | 3  | 4  | 5  | 6    | 7  | 8  |   |
| VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES & COMMONS | 12            | P.E.       | 1            | 1    | 1  | 1  | 2  | 2    | 4  | 2  | 1 |
| DETECTOR CABLE  | #16/2         | P.E.       |              |      |    |    |    |      |    |    |   |
| PHASE 1   |               |            |              |      |    |    |    |      | 1  | 1  | 1 |
| PHASE 2   |               |            |              |      | 2  | 2  |    |      | 2  |    |   |
| PHASE 3   |               |            |              |      |    |    |    |      |    |    |   |
| PHASE 4   |               |            |              |      |    |    |    | 1    |    |    |   |
| PHASE 5   |               |            |              |      | 1  | 1  |    |      | 1  |    |   |
| PHASE 6   |               |            |              |      |    |    |    |      | 2  | 2  | 2 |
| PHASE 7   |               |            |              |      |    |    |    |      |    |    |   |
| PHASE 8   |               |            | 1            | 1    |    |    |    | 1    |    |    |   |
| TOTALS  | #16/2         | P.E.       | 1            | 3    | 4  |    |    | 8    | 3  | 3  |   |
| INTERCONNECT CABLE  | #19           | P.E.       |              |      |    |    |    |      | 1  | 1  | 1 |
| I.I.S.N.S.  | #12           | T.W.       | 2            | 2    |    |    | 2  | 2    |    | 2  |   |
| LUMINAIRES  | #8            | T.H.W.     | 2            | 2    |    |    | 2  | 2    |    | 2  |   |
| SIGNAL SERVICE  | #6            | T.W.       |              |      |    |    | 2  | 2    |    |    |   |
| CONDUIT SIZE  |               |            | 2"           | 2.5" | 2" | 3" | 2" | 2-3" | 3" | 2" |   |

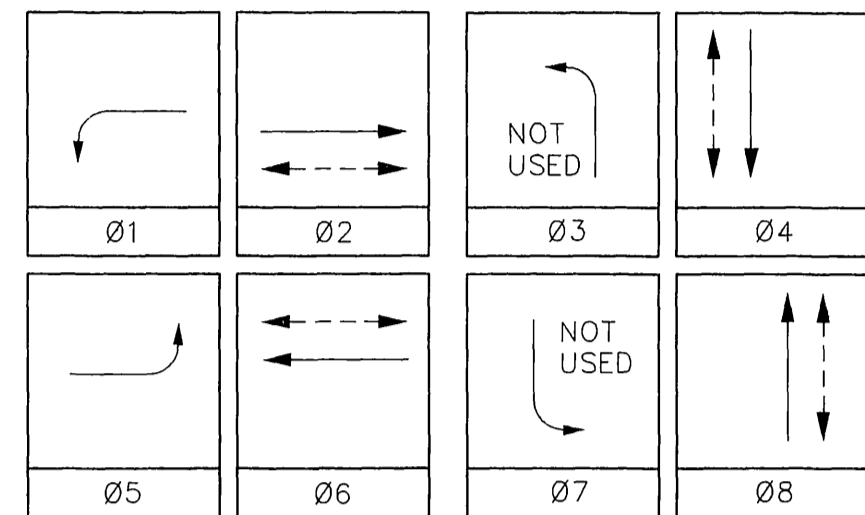
NOTE:  
1. I.M.S.A. cable is required; see Special Provisions; applies to signal heads and ped push buttons only.

**DETECTOR SCHEDULE**

| LOOP DESIGNATION | NUMBER OF LOOPS | FEATURES |
|------------------|-----------------|----------|
| 111U             | 3               |          |
| 5J1U             | 3               |          |
| 2I2U             | 2               |          |
| 2I4U             | 4               | *        |
| 4I6U             | 3               |          |
| 6J2U             | 2               |          |
| 6J4U             | 4               | *        |
| 8J6U             | 2               |          |

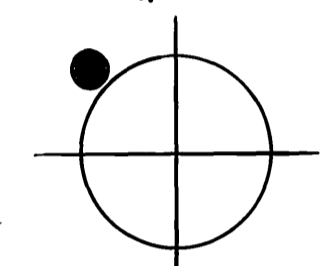
\* DETECTOR DISCONNECT (see Special Provision)  
Detectors shall be 2-channel rack-mounted.

**PHASE DIAGRAM**



FLASHING OPERATION SHALL BE ALL RED.

**RISER DETAIL PP #12821J**

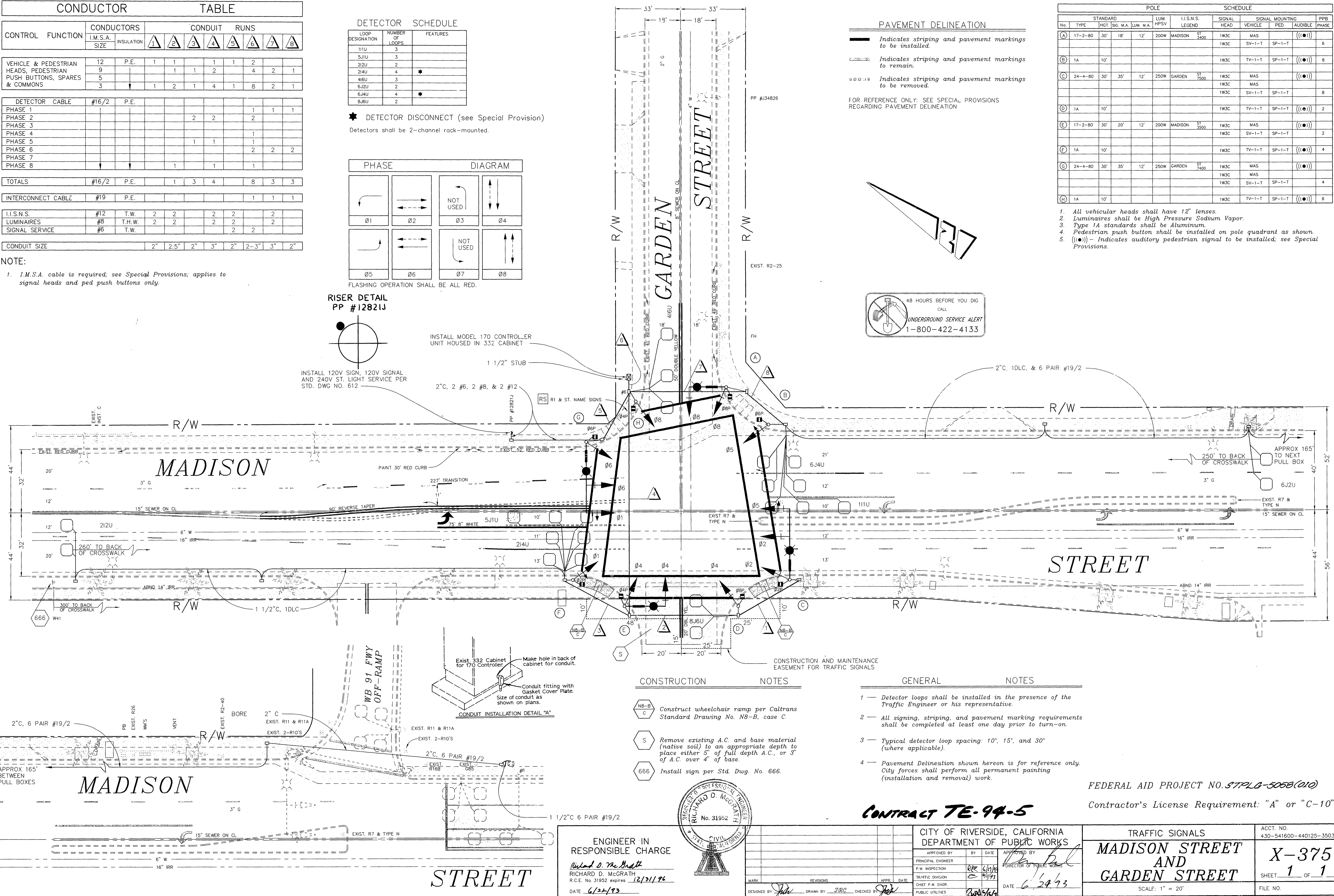


INSTALL 120V SIGN, 120V SIGNAL AND 240V ST. LIGHT SERVICE PER STD. DWG NO. 612

INSTALL MODEL 170 CONTROLLER UNIT HOUSED IN 332 CABINET

1 1/2" STUB

2" C, 2 #6, 2 #8, & 2 #12



**PAVEMENT DELINEATION**

- Indicates striping and pavement markings to be installed.
- Indicates striping and pavement markings to remain.
- ⊠⊠⊠⊠ Indicates striping and pavement markings to be removed.

FOR REFERENCE ONLY: SEE SPECIAL PROVISIONS REGARDING PAVEMENT DELINEATION

| No. | TYPE    | STANDARD |           |           |           | SCHEDULE          |             |                         |                     | PPB PHASE |         |     |   |
|-----|---------|----------|-----------|-----------|-----------|-------------------|-------------|-------------------------|---------------------|-----------|---------|-----|---|
|     |         | HGT.     | SIG. M.A. | LUM. M.A. | LUM. HPSV | I.I.S.N.S. LEGEND | SIGNAL HEAD | SIGNAL MOUNTING VEHICLE | SIGNAL MOUNTING PED |           | AUDIBLE |     |   |
| (A) | 17-2-80 | 30'      | 18'       | 12'       | 200W      | MADISON           | ST 3400     | 1W3C                    | MAS                 | SV-1-T    | SP-1-T  | (●) | 6 |
| (B) | 1A      | 10'      |           |           |           |                   |             | 1W3C                    | TV-1-T              | SP-1-T    |         | (●) | 8 |
| (C) | 24-4-80 | 30'      | 35'       | 12'       | 250W      | GARDEN            | ST 2500     | 1W3C                    | MAS                 | SV-1-T    | SP-1-T  | (●) | 8 |
| (D) | 1A      | 10'      |           |           |           |                   |             | 1W3C                    | TV-1-T              | SP-1-T    |         | (●) | 2 |
| (E) | 17-2-80 | 30'      | 20'       | 12'       | 200W      | MADISON           | ST 3500     | 1W3C                    | MAS                 | SV-1-T    | SP-1-T  | (●) | 2 |
| (F) | 1A      | 10'      |           |           |           |                   |             | 1W3C                    | TV-1-T              | SP-1-T    |         | (●) | 4 |
| (G) | 24-4-80 | 30'      | 35'       | 12'       | 250W      | GARDEN            | ST 2600     | 1W3C                    | MAS                 | SV-1-T    | SP-1-T  | (●) | 4 |
| (H) | 1A      | 10'      |           |           |           |                   |             | 1W3C                    | TV-1-T              | SP-1-T    |         | (●) | 6 |

- All vehicular heads shall have 12" lenses.
- Luminaires shall be High Pressure Sodium Vapor.
- Type 1A standards shall be Aluminum.
- Pedestrian push button shall be installed on pole quadrant as shown.
- (●) - Indicates auditory pedestrian signal to be installed; see Special Provisions.



**CONSTRUCTION NOTES**

- NB-B Construct wheelchair ramp per Caltrans Standard Drawing No. NB-B, case C.
- S Remove existing A.C. and base material (native soil) to an appropriate depth to place either 5" of full depth A.C., or 3" of A.C. over 4" of base.
- 666 Install sign per Std. Dwg. No. 666.

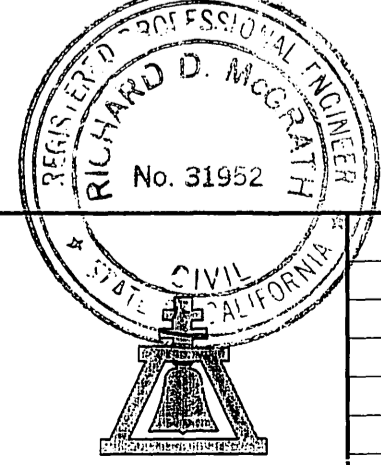
**GENERAL NOTES**

- 1 - Detector loops shall be installed in the presence of the Traffic Engineer or his representative.
- 2 - All signing, striping, and pavement marking requirements shall be completed at least one day prior to turn-on.
- 3 - Typical detector loop spacing: 10', 15', and 30' (where applicable).
- 4 - Pavement Delineation shown hereon is for reference only. City forces shall perform all permanent painting (installation and removal) work.

FEDERAL AID PROJECT NO. STPLG-5058(010)  
Contractor's License Requirement: "A" or "C-10"

**CONTRACT TE-94-5**

ENGINEER IN RESPONSIBLE CHARGE  
Richard D. McGrath  
R.C.E. No. 31952 expires 12/31/96  
DATE 6/24/93



| APPROVED BY        |    | DATE    | APPROVED BY              |    | DATE    |
|--------------------|----|---------|--------------------------|----|---------|
| PRINCIPAL ENGINEER | BY | 6/17/93 | DIRECTOR OF PUBLIC WORKS | BY | 6/24/93 |
| P.W. INSPECTION    | BY | 6/17/93 | CHIEF P.W. ENGR.         | BY | 6/24/93 |
| TRAFFIC DIVISION   | BY | 6/17/93 | PUBLIC UTILITIES         | BY | 6/24/93 |

TRAFFIC SIGNALS  
**MADISON STREET AND GARDEN STREET**  
SCALE: 1" = 20'

ACCT. NO. 430-541600-440125-35033  
**X-375**  
SHEET 1 OF 1  
FILE NO.