

| CONDUCTOR TABLE   |                    |                |    |    |      |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
|---|--------------------|----------------|----|----|------|----|--------|----|------|----|----|--|--|--|--|--|--|--|--|--|--|--|
| CONTROL FUNCTION  | CONDUCTORS         | CONDUCTOR RUNS |    |    |      |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
|   |                    | 1              | 2  | 3  | 4    | 8  | 4      | 3  | 2    | 1  |    |  |  |  |  |  |  |  |  |  |  |  |
| VEHICLE & PEDESTRIAN HEADS, PEDESTRIAN PUSH BUTTONS, SPARES AND COMMONS | 12 CONDUCTOR CABLE | 1              | 2  | 3  | 4    | 8  | 4      | 3  | 2    | 1  |    |  |  |  |  |  |  |  |  |  |  |  |
|   | 3 CONDUCTOR CABLE  | 1              | 2  | 3  | 4    | 8  | 4      | 3  | 2    | 1  |    |  |  |  |  |  |  |  |  |  |  |  |
| DETECTOR CABLE #16/2  |                    |                |    |    |      |    |        |    | 1    | 1  |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 1   |                    |                |    |    |      |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 2   |                    |                | 2  | 2  | 2    | 2  | 2      |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 3   |                    |                |    |    |      |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 4   |                    |                |    |    |      |    |        | 2  | 2    | 2  |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 5   |                    |                | 1  | 1  | 1    | 1  | 1      |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 6   |                    |                |    |    |      |    |        | 2  | 2    |    |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 7   |                    |                |    |    |      |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| PHASE 8   |                    |                |    |    |      |    |        | 2  | 2    | 2  |    |  |  |  |  |  |  |  |  |  |  |  |
| TOTAL   |                    |                | 3  | 3  | 5    | 5  | 10     | 5  | 2    | 2  |    |  |  |  |  |  |  |  |  |  |  |  |
| PRE-EMPTION CABLE #20   |                    |                | 1  | 1  | 2    | 4  | 2      | 2  | 1    | 1  |    |  |  |  |  |  |  |  |  |  |  |  |
| INTERCONNECT CABLE 6-PAIR #19   |                    |                |    |    |      |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| I.I.S.N.S. #12  |                    |                | 2  | 2  | 2    |    | 2      | 2  | 2    | 2  |    |  |  |  |  |  |  |  |  |  |  |  |
| LUMINAIRES #8   |                    |                | 2  | 2  | 2    |    | 2      | 2  | 2    | 2  |    |  |  |  |  |  |  |  |  |  |  |  |
| SIGNAL SERVICE #6   |                    |                | 2  | 2  | 2    |    |        |    |      |    |    |  |  |  |  |  |  |  |  |  |  |  |
| CONDUIT SIZE  |                    |                | 3" | 3" | 3.5" | 4" | 2-3.5" | 4" | 3.5" | 3" | 3" |  |  |  |  |  |  |  |  |  |  |  |

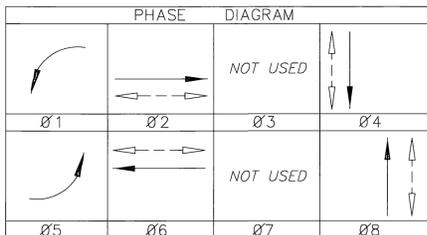
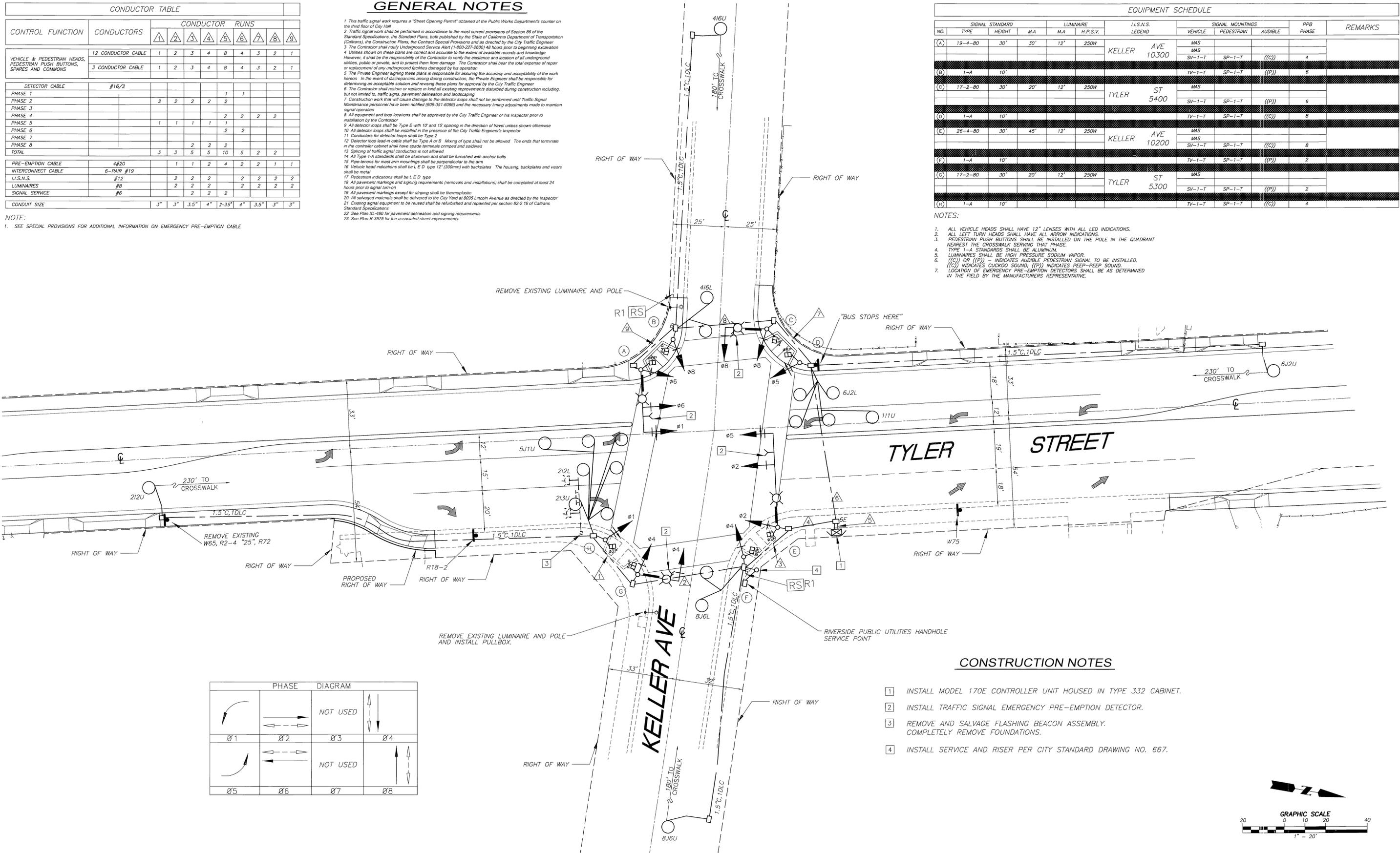
NOTE:  
1. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION ON EMERGENCY PRE-EMPTION CABLE

### GENERAL NOTES

- This traffic signal work requires a "Street Opening Permit" obtained at the Public Works Department's counter on the third floor of City Hall.
- Traffic signal work shall be performed in accordance to the most current provisions of Section 86 of the Standard Specifications, the Standard Plans, both published by the State of California Department of Transportation (Caltrans), the Construction Plans, the Contract Special Provisions and as directed by the City Traffic Engineer.
- The Contractor shall notify Underground Service Alert (1-800-227-0001) 48 hours prior to beginning excavation.
- Utilities shown on these plans are correct and accurate to the extent of available records and knowledge. However, it shall be the responsibility of the Contractor to verify the existence and location of all underground utilities, public or private, and to protect them from damage. The Contractor shall bear the total expense of repair or replacement of any underground facilities damaged by his operation.
- The Private Engineer signing these plans is responsible for assuring the accuracy and acceptability of the work herein. In the event of discrepancies arising during construction, the Private Engineer shall be responsible for determining an acceptable solution and revising these plans for approval by the City Traffic Engineer.
- The Contractor shall restore or replace in kind all existing improvements disturbed during construction including, but not limited to, traffic signs, pavement delineation and landscaping.
- Construction work that will cause damage to the detector loops shall not be performed until Traffic Signal Maintenance personnel have been notified (909-351-6086) and the necessary timing adjustments made to maintain signal operation.
- All equipment and loop locations shall be approved by the City Traffic Engineer or his Inspector prior to installation by the Contractor.
- All detector loops shall be Type E with 10' and 15' spacing in the direction of travel unless shown otherwise.
- All detector loops shall be installed in the presence of the City Traffic Engineer's Inspector.
- Conductors for detector loops shall be Type 2.
- Detector loop lead-in cable shall be Type A or B. Mixing of type shall not be allowed. The ends that terminate in the controller cabinet shall have splice terminals crimped and soldered.
- Splicing of traffic signal conductors is not allowed.
- All Type 1-A standards shall be aluminum and shall be furnished with anchor bolts.
- Pipe-lenses for mast arm mountings shall be perpendicular to the arm.
- Vehicle head indicators shall be L E D type 12" (300mm) with backplates. The housing, backplates and visors shall be metal.
- Pedestrian indications shall be L E D type.
- All pavement markings and signing requirements (removals and installations) shall be completed at least 24 hours prior to signal turn-on.
- All pavement markings except for striping shall be thermoplastic.
- All salvaged materials shall be delivered to the City Yard at 8095 Lincoln Avenue as directed by the Inspector.
- Existing signal equipment to be reused shall be refurbished and repainted per section 812-2.16 of Caltrans Standard Specifications.
- See Plan XL-480 for pavement delineation and signing requirements.
- See Plan R-3575 for the associated street improvements.

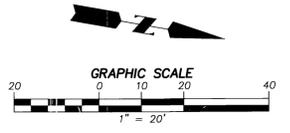
| EQUIPMENT SCHEDULE |                 |      |        |           |      |          |                   |                  |            |         |           |         |
|--------------------|-----------------|------|--------|-----------|------|----------|-------------------|------------------|------------|---------|-----------|---------|
| NO.                | SIGNAL STANDARD | TYPE | HEIGHT | LUMINAIRE |      |          | I.I.S.N.S. LEGEND | SIGNAL MOUNTINGS |            |         | PPB PHASE | REMARKS |
|                    |                 |      |        | M.A.      | M.A. | H.P.S.V. |                   | VEHICLE          | PEDESTRIAN | AUDIBLE |           |         |
| (A)                | 19-4-80         |      | 30'    | 30'       | 12'  | 250W     | KELLER AVE 10300  | MAS              | SP-1-T     | (C)     | 4         |         |
| (B)                | 1-A             |      | 10'    |           |      |          | TYLER ST 5400     | TV-1-T           | SP-1-T     | (P)     | 6         |         |
| (C)                | 17-2-80         |      | 30'    | 20'       | 12'  | 250W     | KELLER AVE 10200  | MAS              | SP-1-T     | (P)     | 6         |         |
| (D)                | 1-A             |      | 10'    |           |      |          | TYLER ST 5300     | TV-1-T           | SP-1-T     | (C)     | 8         |         |
| (E)                | 26-4-80         |      | 30'    | 45'       | 12'  | 250W     | KELLER AVE 10200  | MAS              | SP-1-T     | (C)     | 8         |         |
| (F)                | 1-A             |      | 10'    |           |      |          | TYLER ST 5300     | TV-1-T           | SP-1-T     | (P)     | 2         |         |
| (G)                | 17-2-80         |      | 30'    | 20'       | 12'  | 250W     | TYLER ST 5300     | MAS              | SP-1-T     | (P)     | 2         |         |
| (H)                | 1-A             |      | 10'    |           |      |          |                   | TV-1-T           | SP-1-T     | (C)     | 4         |         |

- NOTES:
- ALL VEHICLE HEADS SHALL HAVE 12" LENSES WITH ALL LED INDICATIONS.
  - ALL LEFT TURN HEADS SHALL HAVE ALL ARROW INDICATIONS.
  - PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED ON THE POLE IN THE QUADRANT NEAREST THE CROSSWALK SERVING THAT PHASE.
  - TYPE 1-A STANDARDS SHALL BE ALUMINUM.
  - LUMINAIRES SHALL BE HIGH PRESSURE SODIUM VAPOR.
  - ((C)) OR ((P)) - INDICATES AUDIBLE PEDESTRIAN SIGNAL TO BE INSTALLED.
  - ((C)) INDICATES QUICKOOD SOUND; ((P)) INDICATES PEEP-PEEP SOUND.
  - LOCATION OF EMERGENCY PRE-EMPTION DETECTORS SHALL BE AS DETERMINED IN THE FIELD BY THE MANUFACTURERS REPRESENTATIVE.



### CONSTRUCTION NOTES

- INSTALL MODEL 170E CONTROLLER UNIT HOUSED IN TYPE 332 CABINET.
- INSTALL TRAFFIC SIGNAL EMERGENCY PRE-EMPTION DETECTOR.
- REMOVE AND SALVAGE FLASHING BEACON ASSEMBLY. COMPLETELY REMOVE FOUNDATIONS.
- INSTALL SERVICE AND RISER PER CITY STANDARD DRAWING NO. 667.

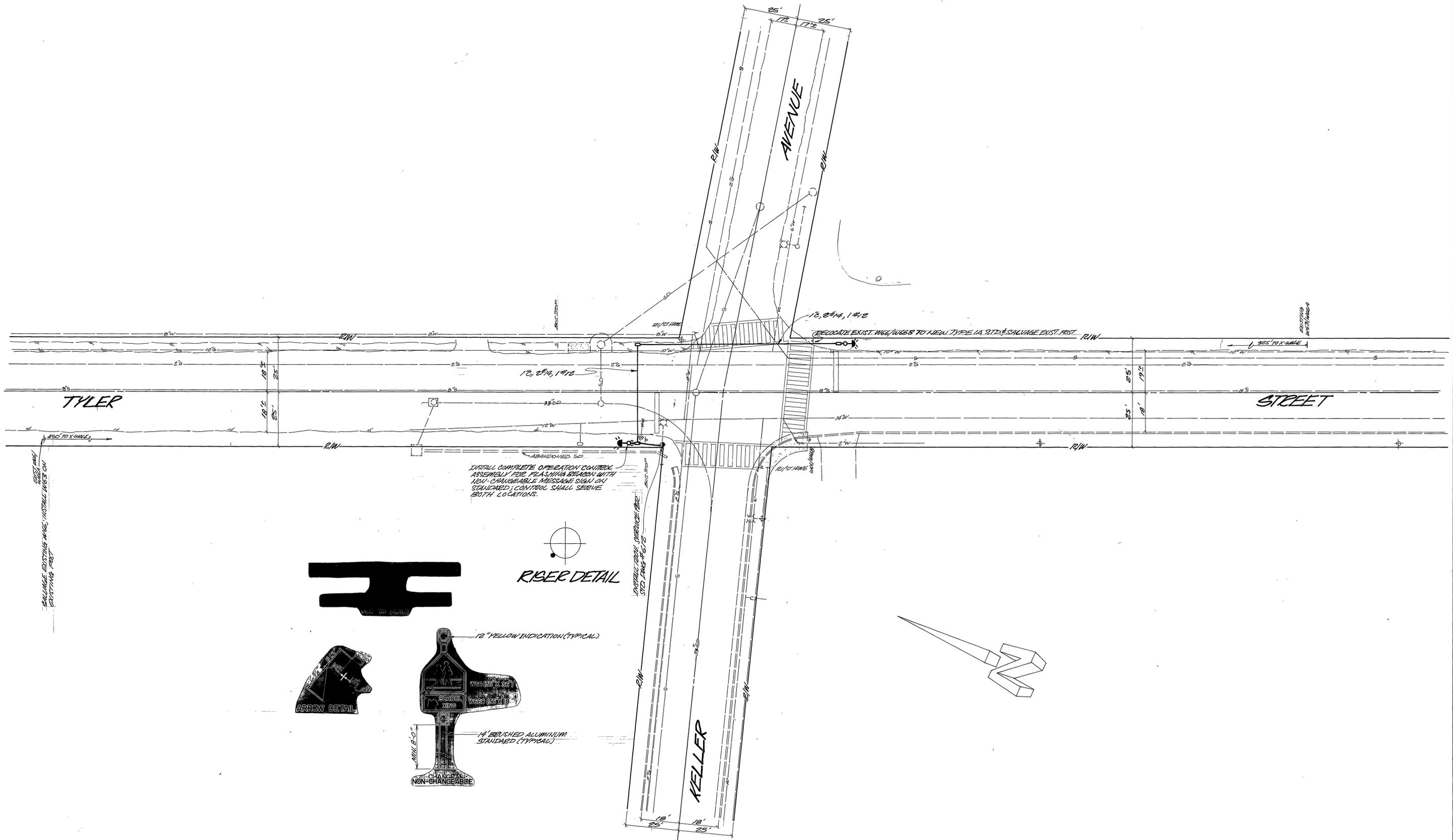


File with R-3575

|  |  |              |                 |  |   |  |                       |                             |  |                                 |
|--|--|--------------|-----------------|--|---|--|-----------------------|-----------------------------|--|---------------------------------|
|  | DESIGNED BY: MG                          | DRAWN BY: MG | CHECKED BY: SJH | <p>937 SOUTH VIA LATA SUITE 500 COLTON, CA 92324 PH. (909) 783-0101 FAX (909) 783-0108</p> | <p>Underground Service Alert<br/>Call: TOLL FREE 1-800-227-2600<br/>TWO WORKING DAYS BEFORE YOU DIG</p> | CITY OF RIVERSIDE, CALIFORNIA<br>PUBLIC WORKS DEPARTMENT |                       | TRAFFIC SIGNAL INSTALLATION |  | ACCT. NO. 000-00000-00000-00000 |
|  | PLANS PREPARED UNDER THE SUPERVISION OF: |              |                 |  |   | <p>MARK GREENWOOD RCE 57989</p>                          | <p>DATE: 12/15/03</p> | <p>DATE: 12/15/03</p>       | <p>APPROVED BY: </p> <p>PRINCIPAL ENGINEER</p> |                                 |

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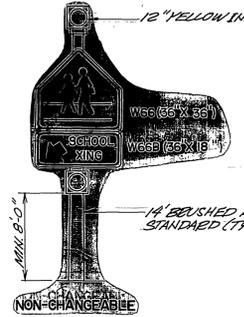
Q:\76603\SIGNAL PLANS\ Tyler and Keller Signaling 10/16/03 dbj



RISER DETAIL



ARROW DETAIL



12" YELLOW INDICATION (TYPICAL)

1 1/2" BRUSHED ALUMINUM STANDARD (TYPICAL)

MAX. 8'-0"

NON-CHANGEABLE

REF. PAGES S-391, D272

|  |  |  |  |   |  |  |
|--|--|--|--|---|--|--|
| <b>CITY OF RIVERSIDE</b><br><b>PUBLIC WORKS DEPARTMENT</b> |  |  |  | FLASHING BEACONS<br><b>KELLER AVENUE</b><br>AT<br><b>TYLER STREET</b> |  | ACCOUNT NO. 20-576-323-07                                |
|  |  |  |  | APPROVED BY: <i>[Signature]</i> DATE: 12/2/85<br>PRINCIPAL ENGINEER   |  | APPROVED BY: <i>[Signature]</i><br>PUBLIC WORKS DIRECTOR |
| MARK: REVISIONS: APPR. DATE:                               |  | TRAFFIC DIVISION: 11-26-85<br>DESIGNER: <i>[Signature]</i> DATE: 12-4-85<br>PUBLIC UTILITIES: 11-27-85 |  | HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" =                              |  |  |