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Appendix A – Striping & Utility Line Styles
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Appendix C – Typical General Notes
Appendix D – Typical Construction
Appendix E – Signature Blocks
Appendix F – Sample Pole Schedule
Appendix G – Photo Locations
Appendix H – Sample Plans
The following CADD drafting standards outline the general practices that shall be used in preparing Traffic Signal Plans for the Los Angeles County Department of Public Works. The purpose of the standards is to promote uniformity in the preparation and drafting of these drawings. These standards are not intended to be a source for design considerations. Sample plans shall be utilized as a reference for description purposes and acceptable quality of plan work is illustrated by the samples. All plans must be prepared using MicroStation version V8i or higher.

1.0 DRAFTING PRACTICES

1.1 Line Styles and Lettering Types

**Line Styles:** Appendix A shows the recommended line styles, colors, and weights to be used.

- All existing equipment, signing, striping and markings shall be shown dashed.
- All proposed equipment, signing, striping, and markings shall be shown solid.

**Lettering:** Table 1 shows the recommended text format to be used for each text type.

- Use upper case lettering for all instructions to the contractor.
- Information or notes not pertaining to work by contractor shall be in lower case lettering.
- Lettering shall be oriented on the plan in such a manner to be readable from the lower right corner.
- Line spacing should be at least half of the height of the text that is being inserted, unless otherwise noted.
Table-1

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<tr>
<th>TYPE OF TEXT</th>
<th>HEIGHT</th>
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<td>0.25</td>
<td>Arial-151</td>
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<td>20</td>
<td>4</td>
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</tr>
</tbody>
</table>

NOTE: All height and width values are given as a scale factor. Multiply the value by the scale to compute actual height.

1.2 **Symbols:** Appendix B shows the recommended standard symbols to be used.

- All existing signal equipment shall be shown as a thin, (weight = 1), dashed line.
- All proposed signal equipment shall be shown as a thicker, (weight = 3), solid line.

1.3 **Dimensions & Leader Lines**

**Dimensions:** Straight lines shall be used for dimensions and shall be referenced to fixed points (i.e., BCR’s, curbs, etc.). Do not reference dimensions to any objects that can be removed or relocated. Dimensions and text shall be oriented on the plan in such a manner to be readable from the lower right corner.

Table–2 shows the typical items that require dimensions and how they should be dimensioned:
### Table-2

<table>
<thead>
<tr>
<th>Item</th>
<th>Dimension Reference Point</th>
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<tr>
<td>Street Widths</td>
<td>Street Centerlines / Curb Face / Edge of Pavement</td>
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<tr>
<td>R/W Widths</td>
<td>Street Centerlines / Curb Face / Edge of Pavement</td>
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<tr>
<td>Loop Locations</td>
<td>BCR / ECR / Curb Face / Edge of Pavement</td>
</tr>
<tr>
<td>*Equipment Locations</td>
<td>BCR / ECR / Curb Face / Edge of Pavement</td>
</tr>
<tr>
<td>Lane Lines</td>
<td>Curb Face / Edge of Pavement / Street Center Line / Along Lane Lines</td>
</tr>
<tr>
<td>Curb Markings (i.e. Red Curb)</td>
<td>BCR / ECR, Along Curb</td>
</tr>
</tbody>
</table>

*Typically, pole locations are indicated on the pole schedule.

**Leader Lines:** Leader Lines shall be used to reference a notation or construction note to an object or item on the plan. Avoid crossing leader lines with dimension lines and other leader lines.

**Curved leader lines:** Curved leader lines can be used to call out more than one item at once. Use a straight-line bracket for notes with two or more lines.

**3-point leader lines:** A 3-point leader line can be used in conjunction with a construction note call out box.

**Call out boxes:** Call out boxes shall be 6 X 6 on a 20 scale and have a number that references a Construction Note.

1.4 **Sample Plan Sheet:** Appendix H shows sample plans that will be used as reference in the layout of new traffic signal plans, modified/clouded traffic signal plans, signing and striping plans, and utility plans.
2.0 PLAN LAYOUT

Before a traffic signal plan is drafted, it is necessary to make a preliminary evaluation of the arrangement of the intersection. The process of plan layout is described in this section. All of the traffic signal elements should be considered when preparing a plan. The sample plans provided in Appendix H show each item and their recommended locations. An electronic copy of each of the items can be obtained from the County.

2.1 Base Plan

2.1.1 Plan Sheet

All plans and traffic signal modification drawings shall be prepared on a 2 feet by 3 feet size sheet with 1” minimum margins (See Appendix H- Sample Plans).

2.1.2 Scale

All traffic signal plans shall be drawn at a scale of 1” = 20’.

All traffic signal modification drawings shall be drawn proportionally, but may also be drawn at a scale of 1” = 20’.

All signing and striping plans shall be drawn at a scale of 1” = 40’.

2.1.3 North Arrow

The North arrow should be placed in the upper left-hand corner of the plan and to the right of the Signal Phase Diagram. The north arrow shall point either straight up or towards the left as shown below.

\[\text{Diagram of North Arrow}\]
2.1.4 Intersection Orientation

The intersection should be centered on the plan sheet. Streets should be oriented on the plan in such a manner as to cause the north arrow to point up or towards the left. The major or main street should be placed horizontal on the sheet.

Show street center lines, street names, County-City boundaries, curb lines (or edge of pavement if no curb exists or is being proposed), Right-of-Way lines, BCR, ECR, and existing/proposed access ramps. Cross gutters and local depressions shall only be shown if necessary to justify proposed design, especially in placement of detector loops.

2.1.5 Title Block

The Title Block shall be placed on the bottom right corner of the plan. The Title Block should include all information as seen in Figure 2.1.A.

Figure 2.1.A

| COUNTY OF LOS ANGELES |
| DEPARTMENT OF PUBLIC WORKS |
| TRAFFIC AND LIGHTING DIVISION |
| TRAFFIC SIGNAL PLAN |
| ARTERIAL STREET AT |
| MINOR STREET |
| I/S X OF X | SHT X OF X | SCALE: 1” = 20’ | T.S. XXXX |
2.1.6 Signature Block

The Signature Block shall be placed directly to the left of the Title Block as illustrated on the sample plans in Appendix H. The Signature Block should be in a format as shown in Appendix E. For plans prepared by a consultant, the consultant shall also include their own signature block on the plan.

2.1.7 City Signature Block

The City Signature Block should be placed directly below the Signature Block. The City Signature Block shall contain all of the information as shown in Figure 2.1.B.

![Figure 2.1.B](image)

Provide one signature block for each city having jurisdiction over the intersection.

2.1.8 State Signature Block

The State Signature Block should be placed to the right of designer’s name block at lower left corner. The State Signature Block should consist of all the information as seen in Figure 2.1.C.

![Figure 2.1.C](image)
2.1.9 Extraordinary Maintenance/Force Account Revision Blocks

The EOM/FA signature block should be placed above the Title Block. See Appendix E, Modification to an Existing Traffic Signal Plan, Extraordinary Maintenance and Force Account revision blocks, for the signature blocks that should be used.

2.1.10 Engineer’s Stamp

The Engineer’s Stamp should be placed to the left of the Signature Block as illustrated on the sample plan in Appendix H. For plans prepared by a consultant, the consultant shall use their stamp on the plan.

2.1.11 Plan Revision Block

The Plan Revision Block should be placed at the bottom left corner of the plan, at a 90 degree angle to the border of the plan as illustrated on the sample plan in Appendix H. The block should consist of all the information as seen in Figure 2.1.D.

![Figure 2.1.D](image)

2.1.12 Jurisdictional Percentiles: Indicates the percentile of the City’s jurisdiction at an intersection.

Jurisdictional percentiles shall be placed above the Signature Block as illustrated on the sample plans in Appendix H.
2.1.13 Thomas Guide Map Page

Thomas Guide page number and coordinates should be placed at the lower left margin as illustrated on the sample plans in Appendix H.

2.1.14 Traffic Signal (T.S.) Revision Number

All existing traffic signal plans that are modified, revised, or clouded shall show the sequential numerical revision number (R-x) after the T.S. number on the Title Block located on the lower right hand corner of the plan. See example in Appendix H – Sample Clouding T.S. Plan.

2.1.15 Phase Diagrams: Phase diagrams shall indicate the existing and proposed operation of the traffic signal at the intersection.

The Phase Diagrams should be drawn as shown in figure 2.1.E. The phase diagrams should be placed at the upper left-hand corner of the plan and shall be labeled as either Existing or Proposed. If a change in operation is recommended, both the existing and proposed phase diagrams should be shown. Vehicle movements shall be indicated with a solid line with an arrow showing the direction of the movement. Pedestrian movements shall be indicated with a dashed line.

Figure 2.1.E

EXISTING SIGNAL PHASE DIAGRAM
2.1.16 Signal Operational Notes: These notes shall describe the recommended operation of the traffic signal.

Signal Operational notes should be placed directly beneath the Existing and/or Proposed Signal Phase Diagram as illustrated on the sample plan in Appendix H.

2.1.17 Pole Schedule: The Pole Schedule shows the inventory of the poles and pole equipment being used at an intersection. Each item shall be labeled whether it is Existing (E), New (N), or Relocated (R). When there is a majority of one type of equipment (Existing, New, or Relocated), the following can be written below the pole schedule instead of labeling each item: “All equipment is existing unless otherwise noted.”

All abbreviations or symbols used in the pole schedule shall be identified below the pole schedule.

The Pole Schedule shall be placed at the lower-left of the plan as illustrated in the sample plan in Appendix H. The pole schedule should be in the format as shown in Figure 2.1.F. Refer to Appendix F for a complete Sample Pole Schedule.

Figure 2.1.F

<table>
<thead>
<tr>
<th>POLE</th>
<th>SIGNAL MOUNTING</th>
<th>LUMINAIRE</th>
<th>PED PUSHER BUTTON</th>
<th>STREET NAME SIGN</th>
<th>POLE LOCATION</th>
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2.1.18 Pole Location Detail: This detail supplements the pole schedule.

The Pole Location Detail should be placed next to the Pole Schedule as illustrated on the sample plan in Appendix H. The pole location detail is shown in figure 2.1.G.
2.1.19 Miscellaneous Details

Other miscellaneous details such as median nose cutbacks (Figure 2.1.H), pavement restoration adjacent to curb ramps (Figure 2.1.I), vehicle head configurations, and special sign details should be placed at the upper-left side of the plan.
2.1.20 **General Notes:** General Notes should be placed at the upper right-hand side of the plan as illustrated on the sample plans in Appendix H.

General Notes shall be used to describe who will perform the necessary work indicated in the Construction Notes. Also, it will give specific instructions on how the work shall be done and what equipment is to be used.

Appendix C shows typical General Notes used by the County. These notes can be modified, or additional ones created, to reflect the work to be performed.

2.1.21 **Construction Notes:** Construction Notes should be placed at the bottom right-hand side of the plan as illustrated on the sample plan in Appendix H.

Construction Notes shall be used to describe specific work to be performed. All Construction Notes shall have a number in a call out box assigned to the note and listed in numeric, sequential order under the Construction Notes heading.

Appendix D shows typical Construction Notes used by the County. These notes can be modified, or additional ones created, to reflect the work to be performed.
2.2 Existing Topography

2.2.1 Symbols

Appendix B shows the typical symbols used by the County.

2.2.2 Signal & Lighting Equipment

Show all signal and lighting equipment. All 8” lenses, which are not mounted on the signal mast arm, should be labeled on the plan. All arrow indications, i.e., 3-12” (RA, YA, GA), 4-12” (R, Y, G, GA) or 5-12” (R, Y, G, YA, GA), should be labeled. (See Figure 2.2.A)

Figure 2.2.A
2.2.3 Conduit & Pull Boxes

All proposed and existing conduit sizes, #5 pull-boxes, and street lighting pull-boxes (slpb) shall be labeled.

Conductor Schedules are not required for intersections in County jurisdiction, however, other agencies may require them at shared intersections or 100% City intersections (this may depend on who maintains the intersection). If required, the agency’s guidelines for the conductor schedule may need to be followed.

2.2.4 Signing, Striping, & Markings

All existing and proposed signing, striping, and pavement & curb markings shall be shown and labeled in conformance with County legend and abbreviations. See Appendix A for Striping Line Styles.

2.2.5 Near Surface Structures

Show all near-surface drainage structures that may affect the installation or modification of signal and/or lighting equipment. These include box culverts, catch basins, water valves, manholes, Edison vaults, and telephone vaults. The vaults should be shown with the full subsurface dimension with surface access shown either square or round. Show storm drain mains or laterals if they are in the area of proposed conduits across roadway.

2.2.6 Underground and Overhead Utilities

Show and label all underground utilities, i.e., gasoline, oil, medium and high pressure gas lines, Edison underground and overhead lines, telephone ducts and cables, and/or any utilities that may affect the location of our signal equipment. These utilities shall be called out as to size and company, and located on plan in their proper place with respect to centerline, curb line, or property line. If requested, a separate utility plan may need to be prepared at an intersection as illustrated on the sample utility plans in Appendix H. See Appendix A for Utility Line Styles.
2.2.7 Sidewalks & Driveways

Show all sidewalks and driveways near curb returns, signal standards, and loop detectors.

2.2.8 Crosswalks

Label all yellow and thermo-plastic crosswalks.

2.2.9 Trees

Show trees if they require trimming to enhance the visibility of the traffic signal.

2.2.10 Signal Service

Show location of the service, the service pole number, including telephone service, service conduit size, and pull box location and size.

2.2.11 Right-of-Way (R/W) Lines and Jurisdictional Boundary Lines

Show and label all R/W lines and Jurisdictional Boundary Lines on the plan. Line types shall be as indicated in Appendix A.

3.0 FIELD CHECK

A field check should be conducted prior to preparing a traffic signal plan. The following list illustrates some, but not all, of the items that should be picked up during the field check. Photos should be taken of all approaches at the locations indicated in Appendix G.

NOTE: All of the items listed below should be obtained from approximately 400 feet of each approach on an arterial street and 250 feet of each approach on a minor street.
3.1 Roadway Parameters

3.1.1 Roadway Geometry

Pick up all roadway widths, curb return radii, raised pavement medians, RR tracks, access ramps, side walks, bus pads, bridge decks, driveways, alleys, and pavement type (concrete or A.C.).

3.1.2 Striping & Pavement and Curb Markings

Pick up all crosswalks (including location from BCR, width and color), lane lines & lane widths, left turn pockets with length, pavement markings including arrows, RR xings, red & yellow curbs, and no stopping anytime & no parking anytime zones.

3.1.3 Signs & Posted Speeds

Pick up the location of all warning, regulatory and guide signs; including posted speed signs on all approaches.

3.2 Signal & Lighting Equipment

3.2.1 Signal Vehicle Heads

Pick up all vehicle head types (i.e. 3-section, 5-section), hoods, size & type of lenses (i.e. PV, LED, 12” arrow or ball, etc.), and terminal compartments.

3.2.2 Pedestrian Heads

Pick up all pedestrian head types and messages displayed. Indicate countdown, audible and substandard pedestrian signals when present.

3.2.3 Standards

Pick up signal standard type and location from BCR, signal mast arm lengths, and luminaire mast arm lengths & wattage.
3.2.4 Pull-Boxes

Pick up type, size, and location.

3.2.5 Conduit

Pick up conduit size and approximate location.

3.2.6 Pedestrian Push Buttons

Pick up location, type (i.e. ADA compliant) and the phase which it serves.

3.2.7 Street Name Signs

Note whether the signs are illuminated or retro-reflective, internal or external, and pick up street names.

3.2.8 Controller Cabinet & Controller Type

When directed by the Agency, pick up cabinet inventory which includes type of cabinet & location of cabinet, controller model, signal phasing & operation, number of I.L.D. sensor units, number of switch packs, number of pedestrian isolation modules, type of modem, program type, interconnect type, and any other equipment located in the controller cabinet.

3.2.9 Detection

Pick up detection type, size, and location, phase designation, and number of detector lead-in cables.

3.2.10 Street Lighting

Show street lighting only within 300 feet of the intersection.
3.3 Drainage

Pick up box culverts, catch basins, gutter widths, cross gutters, local depression affecting ILDs, pressure pads, and manholes affecting ILDs or conduit runs.

3.4 Utilities

Pick up power poles, hydrants, guy poles, water valves, water meters, utility vaults, and hazardous overhead & underground utilities.

3.5 Service

Pick up service type & location, service conduit size & length, service point (pole number or vault), pull-box (location & size) in vicinity of service point.

3.6 Miscellaneous

Pick up trees or other objects that may conflict with proposed traffic signal equipment and/or be in the line of sight of the traffic signal.

4.0 RIGHT OF WAY REQUIREMENTS

Any need for additional right of way, other than what is existing, should be determined at this point in the design of the traffic signal.

A “permit” to enter, construct, and maintain traffic signal equipment and appurtenances should be obtained from railroad companies, public utilities, County, and/or City properties and other long term entities.

Any easement for the same purposes as a “permit” should be obtained in all cases where there is a possibility the property needed may be sold to another party. A “permit” becomes null and void with a change in ownership.

Either a “permit” or easement shall be obtained before a project goes to contract.
# APPENDIX A

## TRAFFIC AND LIGHTING LINE STYLES

<table>
<thead>
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<th>Line Style</th>
<th>Level</th>
<th>Color</th>
<th>Weight</th>
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<td>CLGTBDY</td>
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**COLOR LEGEND:**
- R = RED
- G = GREEN
- Y = YELLOW
- M = MAGENTA
- BR = BROWN
- B = BLUE
- W = WHITE
- C = CYAN
- O = ORANGE
- GR = GRAY

**NOT TO SCALE**
## Utility Line Styles

<table>
<thead>
<tr>
<th>Line Style</th>
<th>Color</th>
<th>Level</th>
<th>Weight</th>
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<tr>
<td>Cable Television Lines</td>
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</tr>
<tr>
<td>Storm Drain Lines</td>
<td>Drain</td>
<td>15</td>
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<tr>
<td>Electrical Power Lines</td>
<td>Electric</td>
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<td>Fuel</td>
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<td>Street Light Lines</td>
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<td>Crude Oil Lines</td>
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<td>16</td>
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<tr>
<td>Water Lines</td>
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### Color Legend:

- R = Red
- G = Green
- Y = Yellow
- M = Magenta
- C = Cyan
- BR = Brown
- B = Blue
- W = White
- O = Orange
- GR = Gray

Not to Scale
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<tr>
<th>PROPOSED</th>
<th>EXISTING</th>
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<tr>
<td><img src="image" alt="Traffic Signal Pole with Vehicle Signal and Pedestrian Heads" /></td>
<td>TRAFFIC SIGNAL POLE WITH VEHICLE SIGNAL AND PEDESTRIAN HEADS</td>
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<tr>
<td><img src="image" alt="Traffic Signal Pole with Luminaire Mast Arm" /></td>
<td>TRAFFIC SIGNAL POLE WITH LUMINAIRE MAST ARM</td>
</tr>
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<td><img src="image" alt="Retro-Reflective Mast Arm Mounted Sign" /></td>
<td>RETRO-REFLECTIVE MAST ARM MOUNTED SIGN</td>
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<td><img src="image" alt="Internally Illuminated Mast Arm Mounted Sign" /></td>
<td>INTERNALLY ILLUMINATED MAST ARM MOUNTED SIGN</td>
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<td><img src="image" alt="Inductive Loop Detector" /></td>
<td>INDUCTIVE LOOP DETECTOR</td>
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<td><img src="image" alt="Bicycle Loop Detector" /></td>
<td>BICYCLE LOOP DETECTOR</td>
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<td><img src="image" alt="Video Detection Camera" /></td>
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<td>WIRELESS RADIO ANTENNA</td>
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APPENDIX C:

NOTE: THE FOLLOWING NOTES ARE TYPICAL NOTES USED FOR A TRAFFIC SIGNAL PROJECT. A DESIGNER/ENGINEER SHOULD ONLY CHOOSE THE APPROPRIATE NOTES THAT CORRESPOND TO THE PROJECT. BE CAREFUL NOT TO INCLUDE NOTES THAT CONFLICT WITH THE SPECIAL PROVISIONS.

TYPICAL GENERAL NOTES

TRAFFIC SIGNAL PLANS:

1. REFER TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 2015 EDITION, THE SPECIAL PROVISIONS, AND THE REFERENCED STANDARD PLANS FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON THE PLANS.

   -OR-

TRAFFIC SIGNAL, LIGHTING, STRIPING AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS - SECTION 86, 2010 EDITION, AND STANDARD PLANS, 2010 EDITION, UNLESS OTHERWISE NOTED ON THE PLAN OR SPECIAL PROVISIONS.

2. ALL MATERIALS AND EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR, EXCEPT LACO-4E PROGRAM.

3. LACO-4E PROGRAM SHALL BE FURNISHED AND INSTALLED BY THE AGENCY.

4. THE GPS UNIVERSAL TIME BASE UNIT AND ANTENNA SHALL BE MOUNTED PER MANUFACTURER’S GUIDELINES. THE GPS UNIVERSAL TIME BASE UNIT ANTENNA SHALL BE LOCATED ON THE STREET SIDE OF THE TOP OF THE CONTROLLER CABINET.

5. ALL WIRING SHALL BE MARKED (TAGGED) WITHIN THE CONTROLLER CABINET FOR PHASE IDENTIFICATION.

6. ALL SIGNAL EQUIPMENT SHALL BE WIRED IN ACCORDANCE WITH THE PROPOSED OR EXISTING SIGNAL PHASE DIAGRAM.

7. (XXXX) OR (X-X-XX FOR NEMA CONTROLLERS) INDICATES LOOP AND/OR VIDEO DETECTION ZONE ASSIGNMENT IN THE CONTROLLER CABINET. EACH LOOP ASSIGNMENT SHALL HAVE A SEPARATE LEAD-IN CABLE TO THE CONTROLLER.
8. ALL LOOPS SHALL BE CENTERED IN THE MIDDLE OF THE LANE AND FRONT LOOPS SHALL BE PLACED BEHIND THE EDGE OF THE CROSSWALK OR LIMIT LINE, UNLESS OTHERWISE NOTED.

9. ALL LOOPS SHALL BE ROUND (6’ DIAMETER), UNLESS OTHERWISE NOTED.

10. (TWO-PAIR) DLC CABLE SHALL BE USED THROUGHOUT THE EXTENT OF THIS MODIFICATION UNLESS OTHERWISE NOTED. SEE SPECIAL PROVISIONS.

11. ☐ INDICATES BICYCLE LOOP DETECTOR. SEE BICYCLE/VEHICLE LOOP DETECTOR INSTALLATION STANDARD PLAN IN THE SPECIAL PROVISIONS.

12. THE CONTRACTOR SHALL ARRANGE FOR MANUFACTURER REPRESENTATIVE TO BE PRESENT DURING THE INSTALLATION OF THE VIDEO DETECTION SYSTEM AND CAMERA(S). SEE SPECIAL PROVISIONS.

13. THE CONTRACTOR SHALL ARRANGE FOR MANUFACTURER REPRESENTATIVE TO BE PRESENT DURING THE INSTALLATION OF THE RADAR DETECTION SYSTEM AND RADAR UNIT(S). SEE SPECIAL PROVISIONS.

14. ALL DETECTION ZONES SHALL BE CENTERED IN THE MIDDLE OF THE LANE AND FRONT DETECTION ZONES SHALL BE PLACED BEHIND THE EDGE OF THE CROSSWALK OR LIMIT LINE, UNLESS OTHERWISE NOTED.

15. DETECTORS AND/OR VIDEO DETECTION ZONES SHALL BE WIRED/RE-CONFIGURED PER DETECTOR ASSIGNMENTS SHOWN ON THIS PLAN.

16. □□□□ INDICATES PROPOSED VIDEO DETECTION ZONE.

17. □□□□ INDICATES PROPOSED RADAR SENSING ZONE.

18. □□□√ INDICATES SYSTEM DETECTION ZONE.

19. □□□□□□ INDICATES VIDEO DETECTION/RADAR CAMERA.

20. REMOVAL OR RELOCATION OF WIRELESS RADIO EQUIPMENT AND ANTENNA WILL BE DONE BY THE AGENCY. CONTRACTOR SHALL CONTACT THE SIGNAL SHOP AT (626) 458-1700 TEN (10) WORKING DAYS IN ADVANCE FOR COORDINATION.
21. CCTV CAMERA WILL BE RELOCATED BY THE AGENCY. CONTRACTOR SHALL CONTACT THE SIGNAL SHOP AT (626) 458-1700 TEN (10) WORKING DAYS IN ADVANCE FOR COORDINATION.

22. ALL NEW POLES, CONDUIT, AND PULL BOXES SHALL BE INSTALLED OUTSIDE OF CURB RAMPS.

23. ALL NEW PULL BOXES SHALL BE NO. 6, UNLESS SHOWN OTHERWISE.

24. ALL NEW UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC, CONFORMING TO 700-3.5.4 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE ENGINEER.

25. ALL EXISTING CONDUITS SHALL BE REUSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER. ALL EXISTING INDIVIDUAL CONDUCTORS AFFECTED BY THE ADDITION OF NEW CONDUCTORS AND/OR DLC’S SHALL BE REMOVED AND REPLACED WITH MULTI-CONDUCTOR CABLES UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.

26. IF EXISTING CONDUIT IS TO BE ABANDONED, REMOVE THE EXISTING CONDUCTORS.

27. THREE-CONDUCTOR CABLE (3CSC), FIVE-CONDUCTOR CABLE (5CSC), AND TWELVE-CONDUCTOR CABLE (12CSC) SHALL BE INSTALLED IN LIEU OF INDIVIDUAL CONDUCTORS. SEE SPECIAL PROVISIONS. NO OTHER TRAFFIC SIGNAL (TS) MULTI CONDUCTOR CABLE WILL BE ACCEPTED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

-OR-

TWENTY EIGHT-CONDUCTOR CABLE (28CSC) SHALL BE INSTALLED IN LIEU OF INDIVIDUAL CONDUCTORS. SEE SPECIAL PROVISIONS. NO OTHER TRAFFIC SIGNAL (TS) MULTI CONDUCTOR CABLE WILL BE ACCEPTED UNLESS OTHERWISE APPROVED BY THE ENGINEER.

28. SIGNAL, LIGHTING, AND ELECTRICAL SYSTEMS SHALL CONFORM TO THE CITY OF ______ SPECIFICATIONS. SEE SPECIAL PROVISIONS.

29. NEW VEHICLE HEADS SHALL BE 12” L.E.D. (LIGHT EMITTING DIODE) PER LOS ANGELES COUNTY DPW SPECIFICATIONS. (SEE SPECIAL PROVISIONS).

30. TRAFFIC AND LIGHTING DIVISION SHALL PROVIDE A SKETCH INDICATING THE PROGRAMMED VISIBILITY HEAD ZONES.
31. NEW PEDESTRIAN HEADS SHALL BE COUNTDOWN L.E.D. (LIGHT EMITTING DIODE). (SEE SPECIAL PROVISIONS).

32. ALL NEW PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED IN CONFORMANCE WITH ADA REQUIREMENTS.

33. POLE LOCATIONS SHOWN HEREON ARE APPROXIMATE. PRECISE LOCATIONS SHALL BE ESTABLISHED IN THE FIELD AND VERIFIED BY THE PROJECT ENGINEER.

34. ALL NEW SIGNAL POLES WITH PEDESTRIAN PUSH BUTTONS SHALL BE INSTALLED NO FURTHER THAN 5 FEET FROM THE BACK OF CROSSWALK OR LIMIT LINE UNLESS OTHERWISE NOTED.

35. CURB RAMPS TO BE CONSTRUCTED OR RECONSTRUCTED SHALL CONFORM TO THE CALTRANS STANDARD PLANS. SEE SPECIAL PROVISIONS FOR DETECTABLE WARNING SURFACE REQUIREMENTS.

36. ALL NEW CURB RAMP DETECTABLE WARNING SURFACES SHALL BE <INSERT COLOR> PER CITY OF __________ STANDARDS.

37. FOR ELECTRICAL SERVICE CONNECTION, CALL SOUTHERN CALIFORNIA EDISON COMPANY 10 DAYS IN ADVANCE, MR. _______ AT _______. APPLICABLE SERVICE CONNECTION, RISER COSTS, AND CONSTRUCTION TAX SHALL BE PAID BY THE CONTRACTOR.

38. THE CONTRACTOR SHALL CONTACT COUNTY OF LOS ANGELES’ STREET LIGHTING SECTION HEAD AT (626) 300-4726 TO OBTAIN THE REQUIRED FORMS TO AUTHORIZE SOUTHERN CALIFORNIA EDISON TO RELOCATE AND/OR REMOVE INDICATED STREET LIGHTING PRIOR TO ENERGIZING THE TRAFFIC SIGNAL AND HIGHWAY SAFETY LIGHTS. ALL COSTS ASSOCIATED WITH THE STREET LIGHT RELOCATION AND/OR REMOVAL SHALL BE PAID BY THE CONTRACTOR. (APPLICABLE WHEN WITHIN COUNTY OF LOS ANGELES STREET LIGHTING DISTRICT).

39. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY __________________ OF SOUTHERN CALIFORNIA EDISON AT (_____)________________ FOR THE REMOVAL / RELOCATION OF EXISTING STREET LIGHTS. ALL COSTS ASSOCIATED WITH THE REMOVAL / RELOCATION OF THE EXISTING STREET LIGHT SHALL BE PAID BY THE CONTRACTOR.

40. SERVICE POINT WILL BE DESIGNATED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL INSTALL CONDUIT AND CONDUCTORS TO THE DESIGNATED POLE AND INSTALL TYPE ______ SERVICE AT THE DESIGNATED LOCATION.
41. THE CONTACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT BY DIALING 811 (48) HOURS PRIOR TO ANY EXCAVATION. THE CONTRACTOR IS REQUIRED TO ASCERTAIN THE EXACT LOCATION OF THE UNDERGROUND FACILITIES PRIOR TO DOING WORK THAT MAY DAMAGE OR INTERFERE WITH THEIR SERVICE.

42. FOR DISPOSAL OF SALVAGED MATERIALS, SEE SPECIAL PROVISIONS.

43. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHALL BE INSTALLED WITH (TWO-COAT PAINT, TAPE, OR THERMOPLASTIC) BY THE CONTRACTOR (OR AGENCY), UNLESS OTHERWISE NOTED.

44. ALL CONFLICTING LINES AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS, AND FINISHED WITH ASPHALT EMULSION SEALER.

45. EXISTING RAISED PAVEMENT MARKERS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AGENCY.

46. PROPOSED CROSSWALK SHALL BE 13’ UNLESS OTHERWISE NOTED.

47. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED BY THE CONTRACTOR (OR AGENCY), UNLESS OTHERWISE NOTED.

48. CONTACT LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS, TRAFFIC AND LIGHTING DIVISION, TRAFFIC SYSTEMS SECTION AT (626) 300-4709 ONE MONTH IN ADVANCE OF SIGNAL CONSTRUCTION TO COORDINATE SIGNAL TIMING AND IMPLEMENTATION.
SIGNING AND STRIPING PLANS:

1. ALL TRAFFIC LINES AND PAVEMENT MARKINGS SHOWN SHALL BE INSTALLED WITH (TAPE, TWO-COAT PAINT, OR THERMOPLASTIC) BY THE CONTRACTOR (OR AGENCY), UNLESS OTHERWISE NOTED.

2. ALL CONFLICTING LINES AND MARKINGS SHALL BE REMOVED BY WET SANDBLASTING OR GRINDING (THEN PAINTED BLACK) AND INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.

3. ALL TURN ARROW MARKINGS SHALL BE TYPE IV (L OR R) UNLESS OTHERWISE NOTED.

4. ALL LANE STRIPING AT INTERSECTION APPROACHES WITHOUT CROSSWALKS OR LIMIT LINES SHALL END 10 FEET FROM THE EXTENSION OF THE INTERSECTING CURB LINE

5. ALL LANE LINES AT INTERSECTION APPROACHES AND DEPARTURES SHALL BEGIN AND END WITH 50 FEET OF 4-INCH SOLID WHITE LINE.

6. LANE WIDTHS SHALL BE MEASURED BETWEEN THE CENTERLINES OF EACH ADJACENT SINGLE OR DOUBLE STRIPE OR TOP OF CURB AS APPROPRIATE.

7. PROPOSED LIMIT LINE SHOULD BE INSTALLED AT A MINIMUM OF 4 FEET BEHIND THE EXISTING CURB EXTENSION OR EDGE OF TRAVEL WAY (NO EXISTING CURB RAMP). IN THE CASE OF INTERSECTION WITH CURB RAMP, THE LIMIT LINE SHALL BE PLACED BEHIND THE RAMP’S LANDING AREA, BUT IN NO CASE GREATER THAN 30 FEET BACK.

8. EXISTING RAISED PAVEMENT MARKERS DAMAGED DURING REMOVAL SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE AGENCY.

9. ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED.

OR IF DONE BY THE AGENCY:

ALL SIGNING SHOWN HEREON SHALL BE INSTALLED, RELOCATED, OR REMOVED BY THE AGENCY, UNLESS OTHERWISE NOTED.

10. PROPOSED STRIPING BY THE AGENCY. (IF STRIPING DONE BY AGENCY).

11. SEE TRAFFIC SIGNAL PLAN FOR LOCATION OF CROSSWALKS AT SIGNALIZED INTERSECTIONS.
12. LOCATIONS OF PROPOSED SIGNS ARE SHOWN TO SCALE ON THE PLAN, UNLESS OTHERWISE NOTED.
APPENDIX D:
TYPICAL CONSTRUCTION NOTES

-OR-
REUSE EXISTING TYPE 332 CABINET COMPLETE WITH (#) 2-CHANNEL ILD SENSOR UNITS, (#) PED ISOLATION MODULES, AND (#) SWITCH PACKS. REMOVE EXISTING TYPE 170E CONTROLLER, LACO-1R WWV PROGRAM, AND RADIO CORRECTED TIME BASE UNIT. FURNISH AND INSTALL NEW TYPE 170 ATC/HC-11 CONTROLLER, LACO-4E PROGRAM, (#) 2-CHANNEL ILD SENSOR UNIT(S), (#) SWITCH PACK(S), GPS UNIVERSAL TIME BASE UNIT AND ANTENNA. RE-WIRE CONTROLLER CABINET.

-OR-
REUSE EXISTING TYPE 332 CABINET COMPLETE WITH (#) 2-CHANNEL ILD SENSOR UNITS, (#) PED ISOLATION MODULES, (#) SWITCH PACKS, AND BATTERY BACK-UP SYSTEM. REMOVE EXISTING RADIO CORRECTED TIME BASE UNIT. FURNISH AND INSTALL (#) 2-CHANNEL ILD SENSOR UNIT(S), (#) SWITCH PACK(S), GPS UNIVERSAL TIME BASE UNIT AND ANTENNA. RE-WIRE CONTROLLER CABINET.

-OR-
REMOVE EXISTING TYPE P CABINET AND TYPE ASC/2S-2100 CONTROLLER COMPLETE. REMOVE FOUNDATION. FURNISH AND INSTALL NEW TYPE 332 CABINET ON NEW FOUNDATION COMPLETE WITH TYPE 170 ATC/HC-11 CONTROLLER, LACO-4E PROGRAM, (#) 2-CHANNEL ILD SENSOR UNITS, (#) PED ISOLATION MODULES, (#) SWITCH PACKS, AND GPS UNIVERSAL TIME BASE UNIT AND ANTENNA. RE-WIRE INTERSECTION.

-OR-
REMOVE EXISTING TYPE M CABINET COMPLETE WITH ASC-8000 CONTROLLER. REMOVE FOUNDATION. FURNISH AND INSTALL NEW TYPE 332 CABINET ON NEW FOUNDATION COMPLETE WITH TYPE 170 ATC/HC-11 CONTROLLER, LACO-4E PROGRAM, (#) PED ISOLATION MODULES, (#) AC ISOLATION MODULE FOR RR PREEMPTION, (#) SWITCH PACKS, GPS UNIVERSAL TIME BASE UNIT AND ANTENNA, ITERIS VIDEO DETECTION SYSTEM COMPLETE WITH VANTAGE EDGE 2 PROCESSOR, ITERIS EDGE CONNECT MODULE, 17” LCD MONITOR AND RACK.
MOUNTED DRAWER OR AGENCY APPROVED EQUAL, AND ALL OTHER EQUIPMENT NECESSARY FOR THE INTENDED OPERATION AS SHOWN ON THE PLAN. SEE SPECIAL PROVISIONS. RE-WIRE INTERSECTION.

-OR-

1 REUSE EXISTING TYPE P CABINET COMPLETE WITH ASC/3S-2100 CONTROLLER, AND (#) SWITCH PACKS. FURNISH AND INSTALL ECONOLITE AUTOSCOPE VIDEO DETECTION SYSTEM WITH RACK MOUNTED VIDEO PROCESSOR UNITS OR AGENCY APPROVED EQUAL, "D" CONNECTOR INTERFACE PANEL AND CABLE, (#) SWITCH PACKS, AND GPS UNIVERSAL TIME BASE UNIT AND ANTENNA. REMOVE (#) ILD SENSOR UNIT. REWIRE CONTROLLER CABINET.

2 INSTALL LOOP(S) AS SHOWN.

3 PROTECT EXISTING LOOP WIRES.

4 SPLICE NEW LOOP(S) TO EXISTING DLC.

5 FURNISH AND INSTALL NEW (#) 2-PAIR DLC (S) TO CONTROLLER CABINET. LENGTH OF EACH DLC IS AS SHOWN ON PLAN.

6 FURNISH AND INSTALL VIDEO DETECTION CAMERA ON LUMINAIRE MAST ARM PER MANUFACTURER’S SPECIFICATIONS. SEE SPECIAL PROVISIONS AND GENERAL NOTE #___.

7 FURNISH AND INSTALL RADAR DETECTION UNIT PER MANUFACTURER’S SPECIFICATIONS. SEE SPECIAL PROVISIONS AND GENERAL NOTE #___.

8 FURNISH AND INSTALL ___" PVC CONDUIT. LENGTH IS AS SHOWN ON PLAN.

9 FURNISH AND INSTALL 2-3" PVC CONDUIT. LENGTH IS AS SHOWN ON PLAN.

10 FURNISH AND INSTALL 3" PVC CONDUIT PER SOUTHERN CALIFORNIA EDISON (SCE) SPECIFICATIONS. SEE GENERAL NOTE "#___".

11 FURNISH AND INSTALL #__ PULL BOX AS SHOWN.

12 INTERCEPT EXISTING CONDUIT AND FURNISH AND INSTALL NEW #__ PULL BOX AS SHOWN.

13 REMOVE EXISTING PULL BOX. FURNISH AND INSTALL #__ PULL BOX.

14 REMOVE EXISTING PULL BOX AS SHOWN.
ABANDON EXISTING LOOPS AS SHOWN.

ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

FURNISH AND INSTALL 3-12" LED VEHICLE HEAD (R, Y, G).

FURNISH AND INSTALL 3-12" LED PROGRAMMED VISIBILITY HEAD (R, Y, G).

FURNISH AND INSTALL 3-12" LED LOUVERED VEHICLE HEAD (R, Y, G).

FURNISH AND INSTALL LOUVERS ON YELLOW AND RED LENSES.

REMOVE EXISTING VEHICLE HEAD. FURNISH AND INSTALL NEW 3-12" LED VEHICLE HEAD (R,Y,G) ON EXISTING STANDARD AS SHOWN.

REMOVE EXISTING VEHICLE HEAD. FURNISH AND INSTALL 5-12" LED VEHICLE HEAD (R, Y, G, YA, GA) ON EXISTING STANDARD AS SHOWN. SEE DETAIL "X".

REMOVE EXISTING VEHICLE HEAD. MODIFY SIGNAL MOUNTINGS AS NEEDED.

RELOCATE EXISTING VEHICLE HEAD AND/OR PEDESTRIAN HEAD AS SHOWN (SEE POLE SCHEDULE). MODIFY SIGNAL MOUNTINGS AS NEEDED.

ROTATE EXISTING VEHICLE HEAD AND CONNECT TO PHASE # AS INDICATED ON PLAN. MODIFY SIGNAL MOUNTINGS AS NEEDED.

FURNISH AND INSTALL NEW PEDESTRIAN HEAD AS SHOWN.

RELOCATE EXISTING PEDESTRIAN HEAD AS SHOWN.

ROTATE EXISTING PEDESTRIAN HEAD AND CONNECT TO PHASE # AS INDICATED ON PLAN. MODIFY SIGNAL MOUNTINGS AS NEEDED.

FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON ON EXISTING STANDARD. (SEE POLE SCHEDULE).

FURNISH AND INSTALL PEDESTRIAN PUSH BUTTON POST AND FOUNDATION. (SEE POLE SCHEDULE).

REMOVE PEDESTRIAN PUSH BUTTON AND PLATE HOLE TO A SMOOTH FINISH.
REMOVE EXISTING TYPE ___ STANDARD COMPLETE. REMOVE EXISTING FOUNDATION. (SEE POLE SCHEDULE).

REMOVE EXISTING TYPE ___ STANDARD NEAR HIGH VOLTAGE LINES COMPLETE, REMOVE EXISTING FOUNDATION. FURNISH AND INSTALL NEW TYPE ___ STANDARD NEAR HIGH VOLTAGE LINES ON NEW FOUNDATION COMPLETE WITH EQUIPMENT AS SHOWN. RELOCATE EXISTING STREET NAME SIGN TO NEW POLE. (SEE POLE SCHEDULE).

FURNISH AND INSTALL NEW TYPE ___ STANDARD ON NEW FOUNDATION COMPLETE WITH NEW EQUIPMENT AS SHOWN (SEE POLE SCHEDULE).

CONSTRUCT CURB RAMP PER CASE ___ PER CALTRANS REVISED STANDARD PLAN RSP A88A.

FURNISH AND INSTALL SURFACE APPLIED DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A.

REMOVE EXISTING CURB RAMP AND REPLACE PAVEMENT IN KIND.

REMOVE RADIO CORRECTED TIME BASE UNIT ANTENNA.

RELOCATE EXISTING WIRELESS RADIO ANTENNA TO NEW STANDARD. SEE GENERAL NOTE #___.

RELOCATE EXISTING VIDEO DETECTION CAMERA TO NEW STANDARD.

REUSE EXISTING WIRELESS RADIO EQUIPMENT.

CUTBACK (OR EXTEND) MEDIAN NOSE. SEE DETAIL ____. RESTRIPE CROSSWALK.

FURNISH AND INSTALL TYPE III-BF ANODIZED ALUMINUM UNDERGROUND SERVICE COMPLETE WITH FOUNDATION PER COUNTY OF LOS ANGELES DPW SPECIFICATIONS (SEE SPECIAL PROVISIONS).

FURNISH AND INSTALL NEW TYPE III-BF ANODIZED ALUMINUM UNDERGROUND SERVICE CABINET PER CALTRANS STANDARD ES-2E COMPLETE WITH 1-120/240V, 2P MAIN CIRCUIT BREAKERS, 1-50A 120V, IP CIRCUIT BREAKERS FOR TRAFFIC SIGNALS (METERED) AND 2-30A, 120V IP CIRCUIT BREAKERS (UNMETERED) FOR HIGHWAY SAFETY LIGHTS. (SEE SPECIAL PROVISIONS).

REUSE EXISTING TYPE _____ UNDERGROUND SERVICE CABINET.

REMOVE EXISTING SERVICE METER MOUNTED ON S.P. # (SERVICE POLE NUMBER. CALL OUT SERVICE QUADRANT, IF KNOWN OR IF NEW SERVICE IS TO BE INSTALLED OR IF MODIFYING THE EXISTING
SERVICE). FURNISH AND INSTALL TYPE III-BF ANODIZED ALUMINUM UNDERGROUND SERVICE COMPLETE WITH FOUNDATION PER COUNTY OF LOS ANGELES DPW SPECIFICATIONS (SEE SPECIAL PROVISIONS).

47 FURNISH AND INSTALL S.L.P.B. WITHOUT BALLAST; REMOVE BALLAST.

48 FURNISH AND INSTALL CURB RAMP WITH DETECTABLE WARNING SURFACE PER CALTRANS REVISED STANDARD PLAN RSP A88A CASE ___. (SEE SPECIAL PROVISIONS).

49 CONSTRUCT 4” P.C.C. WALK OR CONSTRUCT 2” A.C. WALK (APPROXIMATE AREA INDICATED IN SQUARE FEET AND THIS AREA SHOWN HACHURED ON PLAN).

50 REMOVE; RELOCATE: REORIENT: REMOUNT; ABANDON; ADD BACK PLATE; REUSE; DISCONNECT.

51 TRIM TREE. (NOTE FOR EACH TREE)

52 FURNISH AND INSTALL NEW SIGN(S) ON EXISTING STANDARD AS SHOWN.

53 FURNISH AND INSTALL SIGN(S) ON NEW POST AS SHOWN.

54 FURNISH AND INSTALL SIGN(S) AS SHOWN.

55 REMOVE EXISTING SIGN(S) AS SHOWN.

56 RELOCATE EXISTING SIGN(S) AS SHOWN.

57 RELOCATE EXISTING STREET NAME SIGN. (SEE POLE SCHEDULE).

58 INSTALL ___” SOLID WHITE LINE. LENGTH IS AS SHOWN ON PLAN.

59 INSTALL DETAIL ___. LENGTH IS AS SHOWN ON PLAN.

60 INSTALL CROSSWALK.

61 INSTALL TYPE ___ ARROW PER CALTRANS STANDARD PLAN.

62 INSTALL TYPE ___ PAVEMENT MARKING.

63 INSTALL ___ CURB. LENGTH IS AS SHOWN ON PLAN.

64 INSTALL ___” WHITE DIAGONAL LINES.

65 REPAINT EXISTING 12” YELLOW CROSSWALKS.
REMOVE CONFLICTING STRIPING, INCLUDES REMOVAL OF RAISED PAVEMENT MARKERS.

REMOVE CONFLICTING PAVEMENT MARKING.

REMOVE EXISTING ___ CURB.
# APPENDIX E

## County Traffic Signal Signature Blocks

### NEW TRAFFIC SIGNAL

*Original Traffic Signal Plan is Created.*

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Stakeholder</th>
<th>Role</th>
<th>Jurisdiction</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Submitted</td>
<td>CIVIL ENGINEER NO. CXXXXX</td>
<td>Associate Civil Engineer</td>
<td>COUNTY STAFF</td>
</tr>
<tr>
<td></td>
<td>Recommended</td>
<td></td>
<td>Senior Civil Engineer</td>
<td>CONSULTANT</td>
</tr>
<tr>
<td></td>
<td>Approved</td>
<td>GAIL FARBER, DIRECTOR OF PUBLIC WORKS</td>
<td>Division Head</td>
<td>COUNTY STAFF</td>
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<tr>
<td></td>
<td>Reviewed</td>
<td></td>
<td>Associate Civil Engineer</td>
<td>CONSULTANT</td>
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<tr>
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<td>Recommended</td>
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<td>CONSULTANT</td>
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<tr>
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*Additional City Signature "Approved" Blocks May Be Required*

### MODIFICATION TO AN EXISTING TRAFFIC SIGNAL

*Proposed Work is Drawn on a New Traffic Signal Plan.*

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Stakeholder</th>
<th>Role</th>
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<tr>
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<td>Recommended</td>
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<td>Senior Civil Engineer</td>
<td>COUNTY STAFF</td>
</tr>
<tr>
<td></td>
<td>Approved</td>
<td>GAIL FARBER, DIRECTOR OF PUBLIC WORKS</td>
<td>Division Head</td>
<td>COUNTY STAFF</td>
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*100% COUNTY Jurisdiction*

<table>
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<tr>
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<th>Role</th>
<th>Jurisdiction</th>
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<td>Senior Civil Engineer</td>
<td>COUNTY STAFF</td>
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<td>GAIL FARBER, DIRECTOR OF PUBLIC WORKS</td>
<td>Division Head</td>
<td>COUNTY STAFF</td>
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<td>Associate Civil Engineer</td>
<td>COUNTY STAFF</td>
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<td>Recommended</td>
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<td>Senior Civil Engineer</td>
<td>COUNTY STAFF</td>
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<td>GAIL FARBER, DIRECTOR OF PUBLIC WORKS</td>
<td>Division Head</td>
<td>COUNTY STAFF</td>
</tr>
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</table>

*100% COUNTY Jurisdiction*
APPENDIX E

County Traffic Signal Signature Blocks
(Continued)

MODIFICATION TO AN EXISTING TRAFFIC SIGNAL (CONTINUED)

Plan is done by COUNTY STAFF
100% CITY Jurisdiction

MAJOR Work is Proposed*
Plan is done by COUNTY STAFF
COUNTY has a percent of Jurisdiction
Additional City Signature "Approved" Blocks May Be Required

*NOTE: If only minor work is being done
(signing, vehicle heads, loops, conduit/pull boxes), use signature block 6a.

MINOR Work is Proposed*
Plan is done by COUNTY STAFF
COUNTY has a percent of Jurisdiction
Additional City Signature "Approved" Blocks May Be Required

*NOTE: Signing, vehicle heads, loops, and
conduit/pull boxes. For major work, use
signature block 6.
APPENDIX E

County Traffic Signal Signature Blocks
(Continued)

MODIFICATION TO AN EXISTING TRAFFIC SIGNAL (CONTINUED)

MAJOR Work is Proposed*
Plan is done by a
CONSULTANT/CITY
COUNTY has a percent of Jurisdiction
Additional City Signature "Approved" Blocks May Be Required
*NOTE: If only minor work is being done (signing, vehicle heads, loops, conduit/pull boxes), use signature block 7a.

MINOR Work is Proposed*
Plan is done by a
CONSULTANT/CITY
COUNTY has a percent of Jurisdiction
Additional City Signature "Approved" Blocks May Be Required
*NOTE: Signing, vehicle heads, loops, and conduit/pull boxes. For major work, use signature block 7.

NOTE: All plans reviewed by the County, regardless of the requestor, shall be signed by the County, as shown.
APPENDIX E
County Traffic Signal Signature Blocks
(Continued)

MODIFICATION TO AN EXISTING TRAFFIC SIGNAL

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
PLAN REVISION
R-X

SCALE: 1"=20"
DRAWN BY:

SUBMITTED:
BY: Associate Civil Engineer DATE: __________
APPROVED:
BY: Senior Civil Engineer DATE: __________

ALL WORK TO BE DONE BY THE CONTRACTOR IS SHOWN CLOUDED. ALL OTHER WORK SHALL BE EXCLUDED.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
PROJECT ID NO. TSMXXXXXXX
PCA NO. XXXXXXXX

SCALE: 1"=20"
DRAWN BY:

REVIEWED:
BY: Associate Civil Engineer DATE: __________
APPROVED:
BY: Senior Civil Engineer DATE: __________

ALL WORK TO BE DONE BY THE CONTRACTOR IS SHOWN CLOUDED. ALL OTHER WORK SHALL BE EXCLUDED.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
PLAN REVISION
R-X

SCALE: 1"=20"
DRAWN BY:

SUBMITTED: COUNTY OF LOS ANGELES
BY: Associate Civil Engineer DATE: __________
RECOMMENDED: COUNTY OF LOS ANGELES
BY: Senior Civil Engineer DATE: __________
APPROVED: CITY OF COMPTON
BY: City Signature DATE: __________

ALL WORK TO BE DONE BY THE CONTRACTOR IS SHOWN CLOUDED. ALL OTHER WORK SHALL BE EXCLUDED.

Clouding is done by
COUNTY STAFF
100% COUNTY Jurisdiction
Additional City Signature "Approved" Blocks May Be Required

Clouding is done by a
CONSULTANT
100% COUNTY Jurisdiction
Consultant shall put their own signature block and stamp on the plan, which shall be clouded.
Additional City Signature "Approved" Blocks May Be Required

Clouding is done by
COUNTY STAFF
100% CITY Jurisdiction
APPENDIX E

County Traffic Signal Signature Blocks
(Continued)

MODIFICATION TO AN EXISTING TRAFFIC SIGNAL (CONTINUED)


COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

PLAN REVISION
R-X

SCALE: 1”=20” DRAWN BY:

SUBMITTED: COUNTY OF LOS ANGELES
BY: Associate Civil Engineer DATE:

APPROVED: COUNTY OF LOS ANGELES
BY: Senior Civil Engineer DATE:

APPROVED: CITY OF COMPTON
BY: City Signature DATE:

ALL WORK TO BE DONE BY THE CONTRACTOR IS SHOWN CLOUDED. ALL OTHER WORK SHALL BE EXCLUDED.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

PROJECT ID NO. TSMXXXXXXX
PCA NO. XXXXXXXX

SCALE: 1”=20” DRAWN BY:

REVIEWED: COUNTY OF LOS ANGELES
BY: Associate Civil Engineer DATE:

APPROVED: COUNTY OF LOS ANGELES
BY: Senior Civil Engineer DATE:

APPROVED: CITY OF LAWNDALE
BY: City Signature DATE:

ALL WORK TO BE DONE BY THE CONTRACTOR IS SHOWN CLOUDED. ALL OTHER WORK SHALL BE EXCLUDED.

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

PROJECT ID NO. TSMXXXXXXX
PCA NO. XXXXXXXX

SCALE: 1”=20” DRAWN BY:

REVIEWED: COUNTY OF LOS ANGELES
BY: Associate Civil Engineer DATE:

APPROVED: CITY OF WEST COVINA
BY: City Signature DATE:

ALL WORK TO BE DONE BY THE CONTRACTOR IS SHOWN CLOUDED. ALL OTHER WORK SHALL BE EXCLUDED.

Clouding is done by COUNTY STAFF
COUNTY has a percent of Jurisdiction
Additional City Signature "Approved" Blocks May Be Required

Clouding is done by a CONSULTANT/CITY
COUNTY has a percent of Jurisdiction
Consultant shall put their own signature block and stamp on the plan, which shall be clouded.
Additional City Signature "Approved" Blocks May Be Required

Clouding is done by a CONSULTANT/CITY
100% CITY Jurisdiction
Additional City Signature "Approved" Blocks May Be Required
Consultant shall put their own signature block and stamp on the plan, which shall be clouded.

NOTE: All plans reviewed by the County, regardless of the requestor, shall be signed by the County, as shown.
APPENDIX E
County Traffic Signal Signature Blocks
(Continued)

MODIFICATION TO AN EXISTING TRAFFIC SIGNAL

NOTE: The following signature blocks are for use by COUNTY STAFF ONLY

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

EXTRAORDINARY MAINTENANCE

SCALE: 1"=20"

DRAWN BY: COUNTY OF LOS ANGELES

SUBMITTED: COUNTY OF LOS ANGELES

BY: Associate Civil Engineer DATE:

APPROVED: COUNTY OF LOS ANGELES

BY: Senior Civil Engineer DATE:

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

FORCE ACCOUNT

SCALE: 1"=20"

DRAWN BY: COUNTY OF LOS ANGELES

SUBMITTED: COUNTY OF LOS ANGELES

BY: Associate Civil Engineer DATE:

APPROVED: COUNTY OF LOS ANGELES

BY: Senior Civil Engineer DATE:

EXTRAORDINARY MAINTENANCE

Additional City Signature "Approved" Blocks May Be Required

FORCE ACCOUNT

Additional City Signature "Approved" Blocks May Be Required
# APPENDIX F

## POLE SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>TYPE</th>
<th>SPEC YEAR</th>
<th>SIGNAL M.A. LENGTH</th>
<th>SIGNAL MOUNTING</th>
<th>LUMINAIRE</th>
<th>PED PUSH BUTTON</th>
<th>STREET NAME SIGN</th>
<th>POLE LOCATION</th>
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<tbody>
<tr>
<td>1</td>
<td>26-4-100(N)</td>
<td>2010</td>
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<td>MAS(N)</td>
<td>SV-2-TA(N)</td>
<td>SP-1-T(N)</td>
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<td>2</td>
<td>15TS(N)</td>
<td>2010</td>
<td>40'</td>
<td>2-MAS</td>
<td>SV-1-T</td>
<td>SP-1-T</td>
<td>1(N)</td>
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<tr>
<td>3</td>
<td>26-4-70</td>
<td></td>
<td>12'</td>
<td>2-MAS</td>
<td>SV-1-T</td>
<td>SP-1-T</td>
<td>1(N)</td>
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<tr>
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<td>15'(N) **</td>
<td>TV-2-T</td>
<td>SP-1-T</td>
<td>1(N)</td>
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<td>5</td>
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<td>2-MAS</td>
<td>SV-2-TA /</td>
<td>SP-1-T</td>
<td>15'(N)</td>
<td>1(N)</td>
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<tr>
<td>6</td>
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<td>12'</td>
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<td>4'</td>
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<tr>
<td>8</td>
<td>1A</td>
<td></td>
<td>12'</td>
<td>TV-1-T</td>
<td>SP-1-T</td>
<td>1(N)</td>
<td>----</td>
<td>2'</td>
</tr>
</tbody>
</table>

ALL EQUIPMENT SHOWN IS EXISTING UNLESS OTHERWISE NOTED.
(N) - DENOTES NEW EQUIPMENT.
(R) - DENOTES RELOCATED EQUIPMENT.
I.I. - INDICATES INTERNALLY ILLUMINATED STREET NAME SIGN
R.R. - INDICATES RETRO-REFLECTIVE STREET NAME SIGN
ALL NEW SIGNAL POLES AND MAST ARMS SHALL BE PER CALTRANS STANDARD PLANS, 2010 EDITION.
ALL SIGNAL MOUNTINGS SHALL BE PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION 2012 EDITION.
* - INSTALL / REPLACE HIGHWAY SAFETY LIGHT WITH LED EQUIVALENT. SEE SPECIAL PROVISIONS.
** - HORIZONTAL LUMINAIRE MAST ARM.