PROJECT TITLE: PLANS FOR IMPROVEMENT OF CENTURY BOULEVARD INGLEWOOD AVE TO DOTY AVE

TRAFFIC SIGNAL KEY PLAN

PLAN SCALE 1:500

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

DESIGNED BY

CHECKED BY

DATE: April 16, 2018

REVISIONS

Revised per Addendum No. 4

Date: April 16, 2018
GENERAL NOTES
1. All work, materials, and equipment shall be furnished by the contractor and shall conform to the City of Inglewood, California standards, California Title 22, and 2014 California Manual of Uniform Traffic Control Devices ( MUTCD).
2. The contractor shall furnish all necessary permits and notify all affected utility companies and agencies at least 72 hours in advance of construction.

3. Pole, detector, and equipment locations are approximate. The engineer shall approve the exact location of all equipment placed in the field prior to installation. Attention is directed to the marking note (sheet T-105). If the designated location of any traffic signal item is found to interfere with or obstruct property on the roadway, the engineer shall be notified and shall be responsible for the appropriate action prior to installation.

4. All vehicle indications shall be at least 1.5 by metal plate with metal, aluminum, or glass. Indicators shall be of yellow, red or green and shall utilize light emitting diode (LED) modules. Pedestrian indications shall utilize international standards and utilize LED display screens. Pedestrian push buttons shall be Type 5.0, either Type 11 or Type 7.

5. All pole boxes shall be No. 3 or No. 6, unless otherwise noted. Have a minimum space of 200 square feet. Pull boxes shall be fire resistant, corrosion resistant, and have the marking T-105. Pull boxes adjacent to the controlled centerline shall be Type 4. Pull boxes with 4 or more conductors shall be Type 6.

6. If using signal operation shall be red on all phases.

7. For traffic signal, interconnection see fiber optic plans (plan numbers T-301 through T-306).

8. Traffic signal interconnection shall be installed with 6 pair 1/2" signal interconnection cable, in a common trench. Refer to electrical plans.

9. Not used.

10. Install by ground conductor in all new installed conduits containing power conductors and a #10 ground conductor if conductor contains no power conductors.

11. Not used.

12. Conductor schedule is furnished as an installation guideline only. It shall be the contractor's responsibility to provide the correct cables and conductors required for the intended operation.

13. Service equipment enclosure shall be set to fit from the controller, and separated from all utility poles by a minimum of 15 feet, unless otherwise directed by the engineer. Refer to Service "Y" on plan No. T-304.

14. All new installed 7.1 pole foundations shall have anchor bolts with sleeve nuts per Caltrans 2010 Plan. (3-15)

15. Understanding of signals contractor shall not be specified.

16. The contractor shall be responsible for providing a detailed traffic signal plan for any street and area projects clearance associated with the traffic signal construction and coordination with all necessary traffic control devices during the signal installation, in accordance with the 2014 California Manual of Traffic Control Devices (MUTCD).

17. For damper details see roadway and sidewalks plans (plan numbers MPS-301 through MPS-311).

18. All sign panels shall conform to the Caltrans sign specification sheets and shall be mounted on rods or posts at height specified in drawings.

19. The exact location of all signs and pavement markings shall be determined by the engineer in the field.

20. All traffic signal shall be installed prior to traffic signal turn on.

21. All pavement inlay specifications shall be completed at least one day prior to traffic signal turn on.

22. Conduit between adjacent full boxes shall be of steel or copper.

23. Guide wire detectors shall be centered with the lane and shall be 6 feet in width.

24. Pull boxes shall not be located in or behind "C" of any data access ramp or diamond.

25. The contractor shall notify the engineer of the precise field locations of all traffic signal equipment prior to the installation.

26. The signal operation shall be red on all phases.

27. With new or pre-existing right-of-way (ROW) shall be provided and displayed or provided as required by the engineer in the field.

28. New manhole mounted reservoirs shall be provided and installed Type 4 reservoirs or reservoir type.

29. New manholes shall be provided and installed Type 4 reservoirs or reservoir type.

30. New manholes shall be provided and installed Type 4 reservoirs or reservoir type.

31. Conductor shall coordinate with the city of Inglewood traffic signal maintenance department at least 15 working days prior to work affecting a traffic signal.

GENERAL NOTES CONTINUED
32. Pedestrian push buttons shall be No. 30 for existing push buttons. Push buttons shall be polycarbonate (PMMA) sheeting or thermoplastic and utilize LED display technology. Push button color shall be yellow, outer button color shall be blue. Push button #1 and #2 push buttons shall be Type 11 or Type 15, and shall be color identified to the city traffic engineer for approval prior to ordering push button systems.

33. The contractor shall define all necessary permits and shall notify all affected agencies and companies, including the city of Inglewood, traffic signal maintenance division, or allow prior to construction.

34. Existent traffic signal, signs, and poles shall be removed, including entire pole foundations.協定 with native material, to be redone conformance (unless noted otherwise).

35. Existing traffic signal controller cabinets that are to remain in place and reused, shall be protected in place.

36. All existing conduit not shown for reuse shall be removed and become the property of the contractor.

ABBREVIATIONS
APSI ACCESSIBLE PEECH TLED SIGNAL
BBG BATTERY BACKUP SYSTEM (NEW OR REUSE)
CSEG EMERGENCY VEHICLE PREEMPTION DETECTOR
CS NEW SERVICE, OLD METAL FEDERAL
D T TRAFFIC SIGNAL
FUS PHO TO ELECTRIC LANT

STANDARD NOTES
41. Abandon. If applied to conduit, remove conductors.
42. Install pull box in existing conduit run.
43. Install new conduit and existing pull box.
44. Connect new and existing conduit. Remove existing conductors and metal reductors as indicated.
45. Protect in place.
46. Equipment or material, to be removed and become the property of the contractor.
47. Reusable equipment.
48. Reuse and salvage equipment.

LEGEND
(40) EXISTING SERVICE PENDANT
(41) PROPOSED SERVICE PENDANT
(42) EXISTING SERVICE PENDANT
(43) PROPOSED SERVICE PENDANT
(44) EXISTING SERVICE PENDANT
(45) PROPOSED SERVICE PENDANT
(46) EXISTING SERVICE PENDANT
(47) PROPOSED SERVICE PENDANT

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7. For traffic signal, interconnection see fiber optic plans (plan numbers T-301 through T-306).

8. Traffic signal interconnection shall be installed with 6 pair 1/2" signal interconnection cable, in a common trench. Refer to electrical plans.

9. Not used.

10. Install by ground conductor in all new installed conduits containing power conductors and a #10 ground conductor if conductor contains no power conductors.

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12. Conductor schedule is furnished as an installation guideline only. It shall be the contractor's responsibility to provide the correct cables and conductors required for the intended operation.

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30. New manholes shall be provided and installed Type 4 reservoirs or reservoir type.

31. Conductor shall coordinate with the city of Inglewood traffic signal maintenance department at least 15 working days prior to work affecting a traffic signal.
NOTES:
1. CCTV POLES SHALL CONSIST OF A 12 FT POLE EXTENSION IN CALTRANS TYPE 28-5-100, 29-5-100 AND 30-5, SUCH CCTV POLE INCORPORATING DETAILS ON THIS SHEET. FOUNDATIONS AND BASE PLATE DESIGN BY CALIVANA REGISTERED STRUCTURAL ENGINEER. FOR CAMERA DETAILS, SEE SPECIAL, ENGINEERING.
2. THE FOLLOWING INTERSECTIONS SHALL INCORPORATE A CCTV PAN-ILT CAMERA MOUNTING ASSEMBLY PER CALTRANS STD PLAN ES-7P, DETAIL “D”:
   - CENTURY BOULEVARD
   - HAWTHORNE AVE
   - FIRMONA AVE
   - PRAIRIE AVE
   - GREVILLEA AVE

DETAILS ON PLANS:
- TYPICAL SIGNAL STANDARDS PLACEMENT
- TYPICAL PIPE SCHEDULE OR AS DIRECTED BY THE ENGINEER.

REVISIONS
CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PLANS FOR IMPROVEMENTS TO
CENTURY BOULEVARD
INGLEWOOD AVE TO DOTOY AVE

DETAIL PLAN

DESIGNED BY:
INKECH

ARCHITECT:
AECOM

SECRETARY OF STATE:
CALIFORNIA

REDOX AVE

DATE: APRIL 16, 2018

WARNING:
UTILITY LINES SHOWN ARE BASED UPON A SEARCH OF AVAILABLE RECORDS. THERE IS NO ASSURANCE THAT THE LOCATION OF SUBSTRUCTURES SHOWN ARE ACCURATE PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL NOTIFY UGNGERAGE SERVICE AGENCY OF ALL UNDERGROUND SERVICE LINES PRIOR TO ANY EXCAVATION WORK. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY SERVICE LINES THAT ARE NOT EXCAVATED PRIOR TO COMMENCEMENT OF FIELD WORK. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY NON-EXCAVATION. CONTRACTORS ENCOUNTERED WILL BE EXCAVATED.  CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SUBSTRUCTURES, WHETHER SHOWN OR NOT. IN THESE DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SUBSTRUCTURES. DAMAGES CAUSED BY INFELT OPERATIONS. IF UTILITY REPAIRS, INCLUDING REALIGNMENTS, ARE MADE BY THE UTILITY OWNER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASSOCIATED COSTS.
NOTES:

1. A 1" DRAIN SHALL BE PROVIDED THROUGH THE FOUNDATION. 
2. CABINET SHELVES SHALL BE ADJUSTABLE FOR VERTICAL SPACING AND SHALL BE REMOVABLE. CABINETS SHALL BE PROVIDED WITH A MAXIMUM OF TWO SHELVES.
3. CONTROLLER UNITS, PLUG MOUNTED EQUIPMENT, SHELF-MOUNTED EQUIPMENT AND WALL MOUNTED UNITS SHALL BE LOCKED TO PREVENT THEFT AND DAMAGING THE EQUIPMENT OR REPLACEMENT WITHOUT REMOVING ANY OTHER PIECE OF EQUIPMENT.
4. ANCHOR BOLTS SHALL BE 3/4" CH, X 1 1/2" WITH A 27°-29° BEND.
5. REFER TO CALTRANS STD. PLAN RSP-38 FOR TYPE R CABINET AND DETAILS NOT SHOWN.

TYPE 333L CONTROLLER CABINET FOUNDATION

NOTES: (THIS SHEET ONLY)

2. THE EXTERIOR BBS CABINET SHALL CONTAIN BATTERY PANELS AND BATTERIES. DEPENDENT ON THE TYPE OF EQUIPMENT, THE INSTALLER SHALL HAVE ACCESS TO THE BATTERIES, EASY REMOVAL OR REPLACEMENT WITHOUT REMOVING ANY OTHER PIECE OF EQUIPMENT. DETAILS NOT SHOWN.
3. THE EXTERIOR BBS CABINET SHALL BE 333L AT A HEIGHT OF 36" FROM THE GROUND.
4. THE EXTERIOR BBS CABINET SHALL BE 333L ATTACHED TO BASEMENT WALL MOUNTING LOCATION.
5. THE EXTERIOR BBS CABINET SHALL BE MOUNTED TO DETAIL "F" OF THE TRAFFIC SIGNAL PLAN.
6. REFER TO CALTRANS STD. PLAN RSP-301C FOR TYPE R CONTROL CABINET.

MOUNTED TO THE 333L CABINET
NOT TO SCALE

EXTERNAL BBS CABINET

SIDE VIEW

SEE SHEETS A6-1 THRU A6-4
TRANSPORTATION ELECTRICAL EQUIPMENT SPECIFICATION (TEES)

BASE PLAN FOR BBS MOUNTED TO THE MODEL 333L CABINET
NOT TO SCALE

DETAIL "H"

NOT TO SCALE

BATTERY BACKUP SYSTEM CABINET (BBS)

NOTES:
1. BBS CABINET SHALL BE ATTACHED TO THE 333L CONTROL CABINET WHERE INDICATED ON THE TRAFFIC SIGNAL PLAN. REFER TO DETAIL "F" HEREIN.
2. THE BBS CABINET SHALL CONTAIN THE UPS AND THE BATTERY.

INSTALL 333L CONTROLLER CABINET FOUNDATION

PLAN FOR IMPROVEMENT OF CENTURY BOULEVARD INGLEWOOD AVE TO DOTY AVE
CONTROLLE R CABINET DETAILS

100% CITY OF INGLEWOOD
100% CITY OF INGLEWOOD
100% CITY OF INGLEWOOD
100% CITY OF INGLEWOOD
100% CITY OF INGLEWOOD

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**POLE AND EQUIPMENT SCHEDULE**

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<td>5 5&quot;</td>
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<tr>
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**CONDUCTOR AND CONDUIT SCHEDULE**

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<td>11-14 PRV</td>
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<tr>
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<td>11-14 PRV</td>
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<td>1</td>
</tr>
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**CONDUCTOR SIZE**

- 1" | 1  |
- 2" | 2  |
- 3" | 3  |
- 4" | 4  |
- 5" | 5  |

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* All conductors and cables are new unless noted otherwise.

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**CITY OF INGLEWOOD MAIN TAINED**

<table>
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<th>PERCENTAGE SHARE</th>
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<td>100% CITY OF INGLEWOOD</td>
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**REVISIONS**

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

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<th>PLAN TITLE</th>
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<td>4</td>
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Proposed service pedestrian "DSP" see C-310

t* Protected - permanent left turn

Construction Notes:
1. Furnish and install Type Zeta ATC controller in Type 333L cabinet and controller pedestal for Carmenite at specified location. The cabinet shall be furnished with a generator hook-up and switch. Use Caltrans approved vendor list.
2. Furnish and install master arm of signal mounted seen as note on Plan, per Caltrans 2010 Standards.
3. Connect Type Zeta controller to ethernet switch in cabinet.
4. Furnish and install reflectorized street name sign per detail "W" on Plan No. TS-310.
5. Existing Type 170 controller and cabinet shall be salvaged and relocated to the city yard after new 333L cabinet is operational.
6. Install video detection camera per specifications.
7. Existing conduit to remain.
8. Connect City Cam to 333L switch in 333L cabinet.
9. Install conduit into existing pull box.
10. Connect new and existing conduit. Remove existing conductors and install conductors as indicated.
11. Remove and salvage equipment.

NOTES:
1. Refer to fiber optic (F.O.) plans for fiber optic specific details.
2. All existing conduits not shown for reuse shall be abandoned.
3. All existing pullboxes not shown for reuse shall be removed and become the property of the contractor.
4. Refer to F.O. plans for fiber optic specific details.

Notes:
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CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

AECOM

DESIGNED BY

PUBLIC WORKS DEPARTMENT

PROJECT TITLE:

PLANS FOR IMPROVEMENT OF COUNTRY BOULEVARD INGLEWOOD AVE TO DOTY AVE

TRAFFIC SIGNAL PLANS - FINOMA AVE

REVISED

CITY OF INGLEWOOD, CALIFORNIA

PROJECT NO.

TS-303

PLANS SCALE 1"=1'-0"

DRAWN

CHECKED

OF

3/12/2018

City of Inglewood Maintained

100% City of Inglewood

Revised per Addendum No. 4
Date: April 16, 2018
### POLE AND EQUIPMENT SCHEDULE

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<th>NO.</th>
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**ALL SIGNAL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.**

* SEE SHEET TS-3018

(1) LED CROSSWALK PEDESTRIAN SIGNAL FACE

(2) ALL LUMINAIRES SHALL BE MEDIUM CUT-OFF LIGHT DISTRIBUTION

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### CONDUCTOR AND CONDUIT SCHEDULE

<table>
<thead>
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<th>AM-GND-</th>
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### REVISIONS

Revised per Addendum No. 4
Date: April 10, 2018

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**POLE AND EQUIPMENT SCHEDULE**

**CONDUCTOR AND CONDUIT SCHEDULE**

**NOTE:** ALL CONDUCTORS AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
FURNISH AND INSTALL TYPE 2070 ATC CONTROLLER IN TYPE 333L MINIMUM CABINET, AND CONTROLLER ASSEMBLY PER CALTRANS SPECIFICATIONS FOR 8 PHASE OPERATION. INCLUDE ALL NECESSARY ACCESSORIES TO PROVIDE UNINTERRUPTED OPERATION, INCLUDING BATTERY STORAGE SYSTEM, ETC. THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE 333L CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES. BBS CABINET SHALL BE FURNISHED WITH A GENERATOR HOOK-UP AND SWITCH, AND CALTRANS APPROVED HOOK-UP LI. FURNISH AND INSTALL MAST ARM OR SIGNAL POLE MOUNTED SIGN AS NOTED ON PLAN, PER CALTRANS 2010 STANDARDS. CONNECT NEW 2070 ATC CONTROLLER TO ETHERNET SWITCH IN CABINET.

FURNISH AND INSTALL REFLECTORIZED STREET NAME SIGN PER DETAIL "H" ON TS-3018. INSTALL VIDEO DETECTION CAMERA PER SPECIFICATIONS. ADD CCTV EXTENSION TO 45' ON POLE SHAFT.

FURNISH AND INSTALL 3" CONDUIT WITH 2#10, LUMINAIR, CONNECT CCTV CAMERA VIA CAT 6 ETHERNET SWITCH IN 333L CABINET.

REMOVE AND SALVAGE EQUIPMENT.

NOTES:
1. REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH-TYPICAL DETAIL ON PLAN NO. E-311.
2. ALL EXISTING CONDUITS NOT SHOWN FOR REUSE SHALL BE ABANDONED.
3. ALL EXISTING PULLBOXES NOT SHOWN FOR REUSE SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
4. REFER TO FIBER OPTIC (F.O.) PLANS FOR F.O. SPECIFIC DETAILS.

CITY OF INGLEWOOD MAINTAINED PERCENTAGE SHARE 100% CITY OF INGLEWOOD

REVISED DATE DESCRIPTION
10-16-18 Revised per Addendum No. 4

PLAN SCALE AS NOTED
### POLE AND EQUIPMENT SCHEDULE

<table>
<thead>
<tr>
<th>NO.</th>
<th>STANDARD</th>
<th>LED (Footcandle)</th>
<th>R.S.N.S. LEGEND</th>
<th>SIGNAL MOUNTING</th>
<th>PRE-REQUISITES OF</th>
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**NOTE:**
1. (1) LED COUNTDOWN PEDESTRIAN SIGNAL FACE
2. (2) ALL LUMINAIRES SHALL BE MEDIAN C,tp,1d LIGHT DISTRIBUTION
3. (3) SEE DETAIL "G" OR "F"
4. (4) SEE DETAIL "G'

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### CONDUCTOR AND CONDUIT SCHEDULE

<table>
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<tr>
<th>JAWS SIZE</th>
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<th>POLE &amp; PHASES</th>
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### REVISIONS

CITY OF INGLEWOOD MAINTAINED
100% CITY OF INGLEWOOD
PUBLIC WORKS DEPARTMENT

**PROJECT TITLE:** PLANS FOR IMPROVEMENT OF CENTURY BOULEVARD INGLEWOOD AVE TO D OTY AVE

**PLAN SCALE:** 1/100

**PLAN NO:** TS-304A

**DATE:** April 16, 2018

**REMARKS**

- Revised per Addendum No. 4
- Date: April 16, 2018

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**CITY OF INGLEWOOD, CALIFORNIA**

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**NOTE:** ALL CONDUCTORS AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
CONSTRUCTION NOTES

1. Furnish and install Type 333A controller in Type 2070 Aluminum Cabinet and controller assembly per Caltrans/TEES specifications for B-phase operation. Include all necessary accessories to provide interphase operation, including battery backup system (BBS). The BBS cabinet shall be furnished with a generator hook-up and switch, plus Caltrans approved vendor list.

2. Furnish and install mast arm or signal pole mounted sign as noted on plan per Caltrans 2010 standards.

3. Connect new 2070 AC controller to Ethernet switch in cabinet.

4. Furnish and install reflectorized street name sign per detail E-310.

5. Existing Type 170 controller and cabinet shall be salvaged and delivered to the City yard after new 333L cabinet is operational.

6. Relocate video detection camera to new pole.

7. Add city extension to 45’ on pole shaft.

8. Existing conduit to remain.

9. Furnish and install 3” conduit with 2#10, Luminaire.

10. Connect CCTV camera via Cat 6 Ethernet switch in 333L cabinet.

11. Relocate equipment.

12. Relocate and salvage equipment.

NOTES:

1. Refer to street lighting plans for common trench-Typical detail on Plan No. E-310.

2. All existing conduits not shown for reuse shall be abandoned.

3. All existing pullboxes not shown for reuse shall be removed and become the property of the contractor.

4. Refer to Fiber Optic (F.O.) plans for T.O. specific details.

CITY OF INGLEWOOD MAINTAINED

PERCENTAGE SHARE

100% CITY OF INGLEWOOD
POLE AND EQUIPMENT SCHEDULE

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<tr>
<th>NO</th>
<th>STANDARD TYPE Abbreviation</th>
<th>LED Model No</th>
<th>R.N.S. Legend</th>
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ALL EQUIPMENT IS NON-ACCESSIBLE.

* SEE SHEET TS-3008

1) LED COUNTERM-FEEDEEK SIGNAL FACE

2) ALL LUMINAIRES SHALL BE MEDIUM CUT OFF LIGHT DISTRIBUTION

CONDUCTOR AND CONDUIT SCHEDULE

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NOTE: ALL CONDUCTORS AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.

E = EXISTING

Revised per Addendum No. 4
Date: April 16, 2018
### POLE AND EQUIPMENT SCHEDULE

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### CONDUCTOR AND CONDUIT SCHEDULE

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### CITY OF INGLEWOOD MAINTAINED PUBLIC WORKS DEPARTMENT

**PROJECT TITLE:** PLANS FOR IMPROVEMENT OF CENTURY BOULEVARD INGLEWOOD AVE TO DOTTY AVE TRAFFIC SIGNAL PLANS - MYRTLE AVE

**PERCENTAGE SHARE:** 100% CITY OF INGLEWOOD

**DATE:** April 16, 2018

**REVISIONS:**

- City of Inglewood, California
- Public Works Department
- Traffic Signals

**NOTE:** All conductors and conduits are new unless noted otherwise.
# POLE AND EQUIPMENT SCHEDULE

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- All equipment is new unless noted otherwise.
- (E) = Existing equipment
- SEE SHEET TS-301

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## CONDUCTOR AND CONDUIT SCHEDULE

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**NOTE:** All conductors and conduits are new unless noted otherwise.

- (E) = Existing