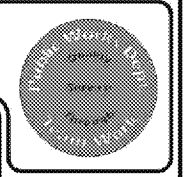



REVISIONS		
MARK	DATE	DESCRIPTION

	CITY OF INGLEWOOD, CALIFORNIA PUBLIC WORKS DEPARTMENT	
PROJECT TITLE: PLANS FOR IMPROVEMENT OF CENTURY BOULEVARD FELTON AVE TO INGLEWOOD AVE TRAFFIC SIGNAL KEY PLAN		
PLAN SCALE: 1"=500'	DESIGNED BY: DRAWN BY: CHECKED BY:	SUBMITTED BY: APPROVED BY:  VANESSA MUNOZ, P.E., R.T.S. CONSULTANT TRAFFIC ENGINEER DATE: 5/18/2015
		PLAN NO. TS-200 SHEET NO. 31 OF 67

GENERAL NOTES

1.

ALL WORK, MATERIALS AND EQUIPMENT SHALL BE FURNISHED BY THE CONTRACTOR AND SHALL CONFORM TO CALTRANS 2010 STANDARD PLANS, AND STANDARD SPECIFICATIONS, AND 2014 CALIFORNIA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2.

THE CONTRACTOR SHALL OBTAIN 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 LOCATIONS OF ALL EQUIPMENT PLACEMENT IN THE FIELD PRIOR TO INSTALLATION. CONTRACTOR SHALL POTHOLE CONFLICTING UTILITIES AS DIRECTED BY THE ENGINEER.
4.

ALL VEHICLE INDICATIONS SHALL BE 12" DIAMETER WITH METAL BACK PLATE AND METAL VISOR. SIGNAL SECTION HOUSING SHALL BE METAL. VEHICLE INDICATIONS SHALL BE (RED, YELLOW AND GREEN) AND SHALL UTILIZE LIGHT EMITTING DIODE (LED) SIGNAL MODULES. PEDESTRIAN INDICATIONS SHALL UTILIZE INTERNATIONAL SYMBOL AND UTILIZE LED COUNT DOWN MODULES. PEDESTRIAN BUSH BUTTONS SHALL BE TYPE "b" ADA TYPE WITH INTERNATIONAL SYMBOL PLATE.
5.

ALL PULL BOXES SHALL BE NO. 5, UNLESS OTHERWISE NOTED, AND HAVE A MAXIMUM SPACING OF 200' BETWEEN PULL BOXES. PULL BOXES AND COVERS SHALL BE CONCRETE. COVERS SHALL HAVE THE MARKING "TRAFFIC SIGNAL." PULL BOX ADJACENT TO THE CONTROLLER CABINET SHALL BE TYPE 6E. PULL BOXES WITH 4 OR MORE CONDUITS SHALL BE TYPE 6E.
6.

FLASHING SIGNAL OPERATION SHALL BE RED ON ALL PHASES.
7.

ALL TRAFFIC SIGNAL INTERCONNECT CONDUIT SHALL BE TYPE 3, SCHEDULE 80, UNLESS OTHERWISE NOTED, WITH MIN 30" COVER.
8.

TRAFFIC SIGNAL INTERCONNECT SHALL BE INSTALLED WITH 6 PAIR 19 SIGNAL INTERCONNECT CABLE, IN A COMMON TRENCH. REFER TO ELECTRICAL PLANS.
9.

ALL AND VIDEO DETECTOR LOCATIONS AND INSTALLATIONS SHALL BE VERIFIED IN THE FIELD BY THE ENGINEER OR HIS DESIGNATED REPRESENTATIVE BEFORE SAW CUTTING. NECESSARY STRIPING SHALL BE LOCATED PRIOR TO POSITIONING THE DETECTORS.
10.

INSTALL #8 GROUND CONDUCTOR IN ALL NEW INSTALLED CONDUITS CONTAINING POWER CONDUCTORS AND A #10 GROUND CONDUCTOR IF CONDUIT CONTAINS NO POWER CONDUCTORS.
11.

TRAFFIC SIGNAL SAFETY LIGHTING LUMINARIES SHALL BE 196 WATT LED WITH TYPE III MEDIUM CUTOFF DISTRIBUTION. REFER TO PROJECT SERVICE NOTE, E-204, E-205.
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 10' TO 15' FROM THE CONTROLLER, AND SEPARATED FROM ALL UTILITY POLES BY A MINIMUM OF 15 FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. REFER TO DETAIL "H" ON PLAN NO. TS-201A
14.

ALL NEW INSTALLED 1-A POLE FOUNDATIONS SHALL HAVE ANCHOR BOLTS WITH SLEEVE NUTS PER CALTRANS STD. PLAN ES-7B.
15.

UNDERGROUND SIGNAL CONDUCTORS SHALL NOT BE SPLICED.
16.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A DETAILED TRAFFIC CONTROL PLAN FOR ANY STREET AND DRIVEWAY CLOSURES ASSOCIATED WITH THE TRAFFIC SIGNAL CONSTRUCTION AND SHALL PROVIDE ALL NECESSARY TRAFFIC CONTROL DEVICES DURING THE SIGNAL INSTALLATION, IN ACCORDANCE WITH THE 2014 CALIFORNIA MANUAL OF TRAFFIC CONTROL DEVICES (MUTCD).
17.

FOR STRIPING DETAILS SEE STRIPING AND SIGNING PLANS (PLAN NUMBERS SPD-201 THROUGH SPD-203).
18.

ALL SIGN PANELS SHALL CONFORM TO THE CALTRANS SIGN AND SPECIFICATION SHEETS AND SHALL BE MOUNTED ON POST AT 7' HEIGHT FROM GROUND.
19.

THE EXACT LOCATION OF ALL SIGNS AND PAVEMENT MARKINGS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
20.

ALL TRAFFIC SIGNS SHALL BE INSTALLED PRIOR TO TRAFFIC SIGNAL TURN ON.
21.

ALL PAVEMENT DELINEATION REQUIREMENTS SHALL BE COMPLETED AT LEAST ONE DAY PRIOR TO TRAFFIC SIGNAL TURN ON.
22.

CONDUIT BETWEEN ADJOINING PULL BOXES SHALL BE 2.5" UNLESS SHOWN OTHERWISE.
23.

VIDEO VEHICLE DETECTORS SHALL BE CENTERED WITHIN THE LANE AND SHALL BE 6 FEET IN WIDTH. DETECTOR SEALANT SHALL BE HOT MELT RUBBERIZED ASPHALT, PER SECTION 86-5.01A(3)(c) OF THE STANDARD SPECIFICATIONS.
24.

PULL BOXES SHALL NOT BE LOCATED IN OR WITHIN 12" OF ANY CURB ACCESS RAMP OR DRIVEWAY.
25.

THE CONTRACTOR SHALL VERIFY WITH THE ENGINEER THE PRECISE FIELD LOCATIONS OF ALL TRAFFIC SIGNAL EQUIPMENT PRIOR TO THE INSTALLATION.
26.

ALL LANDSCAPING WHICH IS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE CITY.
27.

NEW MAST ARM MOUNTED REGULATORY SIGNS SHALL BE FABRICATED WITH ASTM TYPE II REFLECTIVE SHEETING OR APPROVED EQUAL.
28.

STREET NAME SIGNS (SNS) SHALL BE REFLECTORIZED PER SPECIFICATIONS. STREET NAME LEGENDS SHALL BE UPPER/LOWER CASE AND SHALL INCLUDE STREET ADDRESSES AND ROAD NAME SUFFIXES. SUBMIT FULL SIZE COLOR SAMPLE TO THE CITY TRAFFIC ENGINEER FOR APPROVAL PRIOR TO SIGN FABRICATION.
29.

CONTRACTOR SHALL COORDINATE WITH THE CITY OF INGLEWOOD TRAFFIC SIGNAL MAINTENANCE DEPARTMENT FIVE (5) WORKING DAYS PRIOR TO WORK AFFECTING A TRAFFIC SIGNAL.
30.

PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT AND VIBRO TACTILE. PUSH BUTTONS SHALL BE CONSTRUCTED OF HIGH DENSITY THERMOPLASTIC AND UTILIZE PIEZO SWITCH TECHNOLOGY. PUSH BUTTON COLOR

GENERAL NOTES CONTINUED

- SHALL BE YELLOW. OUTER BODY COLOR SHALL BE BLACK. POLARA *MPBP-BY OR CAMPBELL CO. DCC 700P OR EQUAL. SCREWS USED TO SECURE THE SIGN PLATE TO THE HOUSING SHALL BE STAINLESS STEEL 8-32" X 3/8" WITH TAMPER PROOF TORX HEAD. SIZE T-15, OR A CITY APPROVED EQUAL. SUBMIT SAMPLE TO THE CITY TRAFFIC ENGINEER FOR APPROVAL PRIOR TO ORDERING PUSH BUTTON SYSTEMS.
31.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND SHALL NOTIFY ALL AFFECTED AGENCIES AND COMPANIES, INCLUDING THE CITY OF INGLEWOOD, TRAFFIC SIGNAL MAINTENANCE DIVISION, 48 HOURS PRIOR TO START OF CONSTRUCTION.
32.

EXISTING TRAFFIC SIGNAL HEADS AND POLES SHALL BE REMOVED, INCLUDING ENTIRE POLE FOUNDATIONS (BACKFILLED WITH NATIVE MATERIAL TO 95% RELATIVE COMPACTION) UNLESS NOTED OTHERWISE.
33.

EXISTING TRAFFIC SIGNAL CONTROLLER CABINETS THAT ARE TO REMAIN IN PLACE AND REUSED, SHALL BE PROTECTED IN PLACE.
34.

ALL EXISTING CONDUITS NOT SHOWN FOR REUSE SHALL BE ABANDONED.
35.

ALL EXISTING PULLBOXES NOT SHOWN FOR REUSE SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR

ABBREVIATIONS

- APS

ACCESSIBLE PEDESTRIAN SIGNAL
- BBS

BATTERY BACKUP SYSTEM (NEW PIGGY BACK)
- EVP

EMERGENCY VEHICLE PREEMPTION DETECTOR
- SP

NEW SERVICE, DUAL METER PEDESTAL
- SL

STREET LIGHTING
- TS

TRAFFIC SIGNAL
- PEU

PHOTO ELECTRIC UNIT
- SNS

EDGE LIT LED TYPE 'A' STREET NAME SIGN

STANDARD NOTES

- AB

ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.
- BC

INSTALL PULL BOX IN EXISTING CONDUIT RUN.
- CB

INSTALL CONDUIT INTO EXISTING PULL BOX.
- CC

CONNECT NEW AND EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS AND INSTALL CONDUCTORS AS INDICATED.
- PP


PROTECT IN PLACE
- RC


EQUIPMENT OR MATERIAL TO BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR.
- RL


RELOCATE EQUIPMENT.
- RS


REMOVE AND SALVAGE EQUIPMENT.


LEGEND


- 


DUAL METER SERVICE PEDESTAL
- 


EXISTING CCTV CAMERA
- 


PROPOSED CCTV CAMERA
- 


PROPOSED 3M OPTICOM DETECTOR
- 

PROPOSED VIDEO VEHICLE DETECTION AREA
- 


EXISTING VIDEO VEHICLE DETECTION AREA
- 

EXISTING UTILITY
- 

PROPOSED UTILITY
- 

PROPOSED FIBER OPTIC
- 

EXISTING FIBER OPTIC



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UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



AECOM Technical Services, Inc.
515 S. FLOWER ST., 4th FLOOR
LOS ANGELES, CA 90071
T 213.330.7200 F 213.330.7201
www.aecom.com




REVISIONS		
MARK	DATE	DESCRIPTION



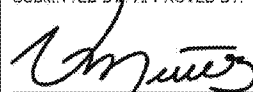
CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
FELTON AVE TO INGLEWOOD AVE
TRAFFIC SIGNAL PLANS - GENERAL NOTES & LEGEND

DESIGNED BY:
DRAWN BY:
CHECKED BY:



PROFILE SCALE:
VERTICAL
HORIZONTAL

SUBMITTED BY / APPROVED BY:

VANESSA MUNOZ, P.E. (P550) / CONSULTANT TRAFFIC ENGINEER

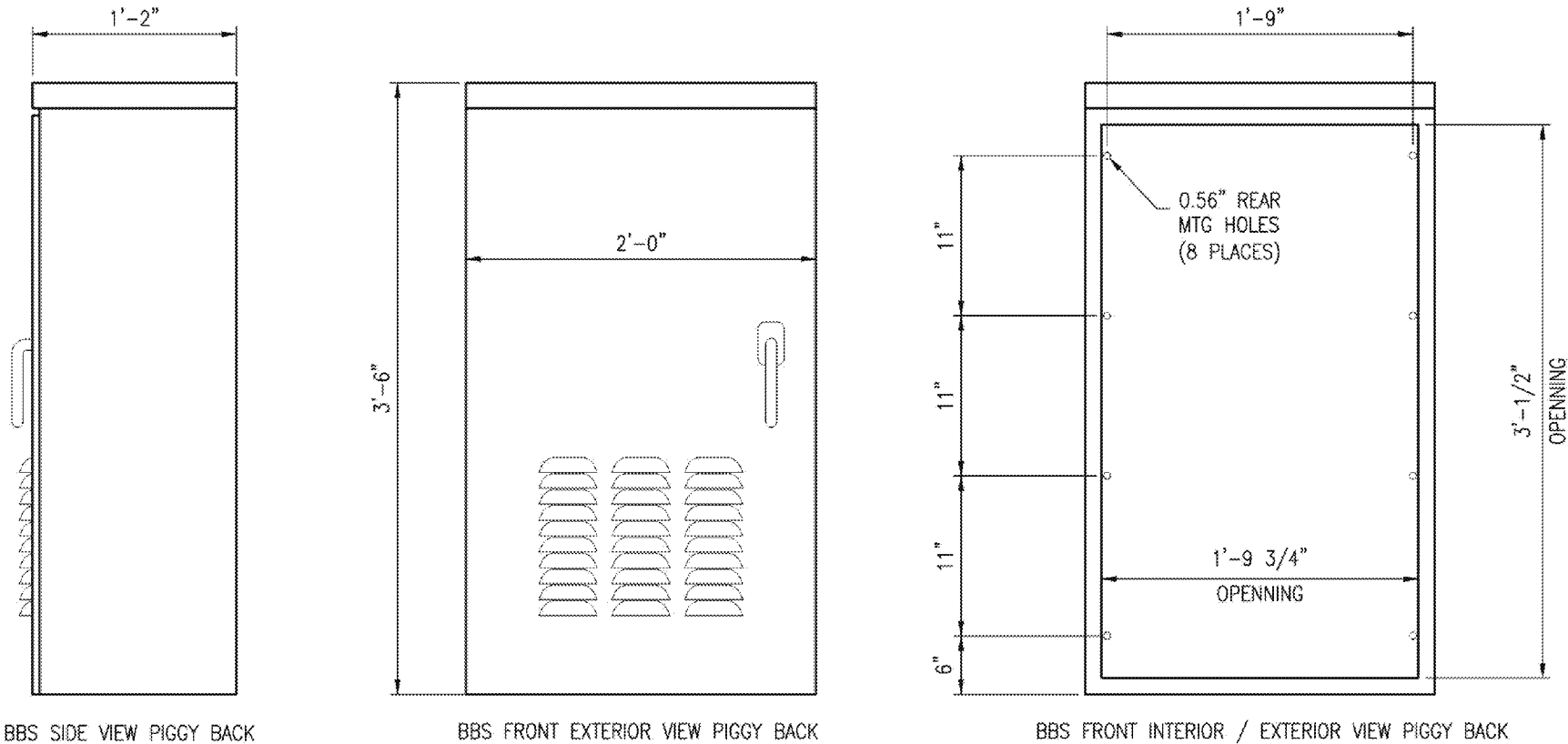
PLAN NO.
TS-201

SHEET NO.
32 OF 67

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

5/18/2015

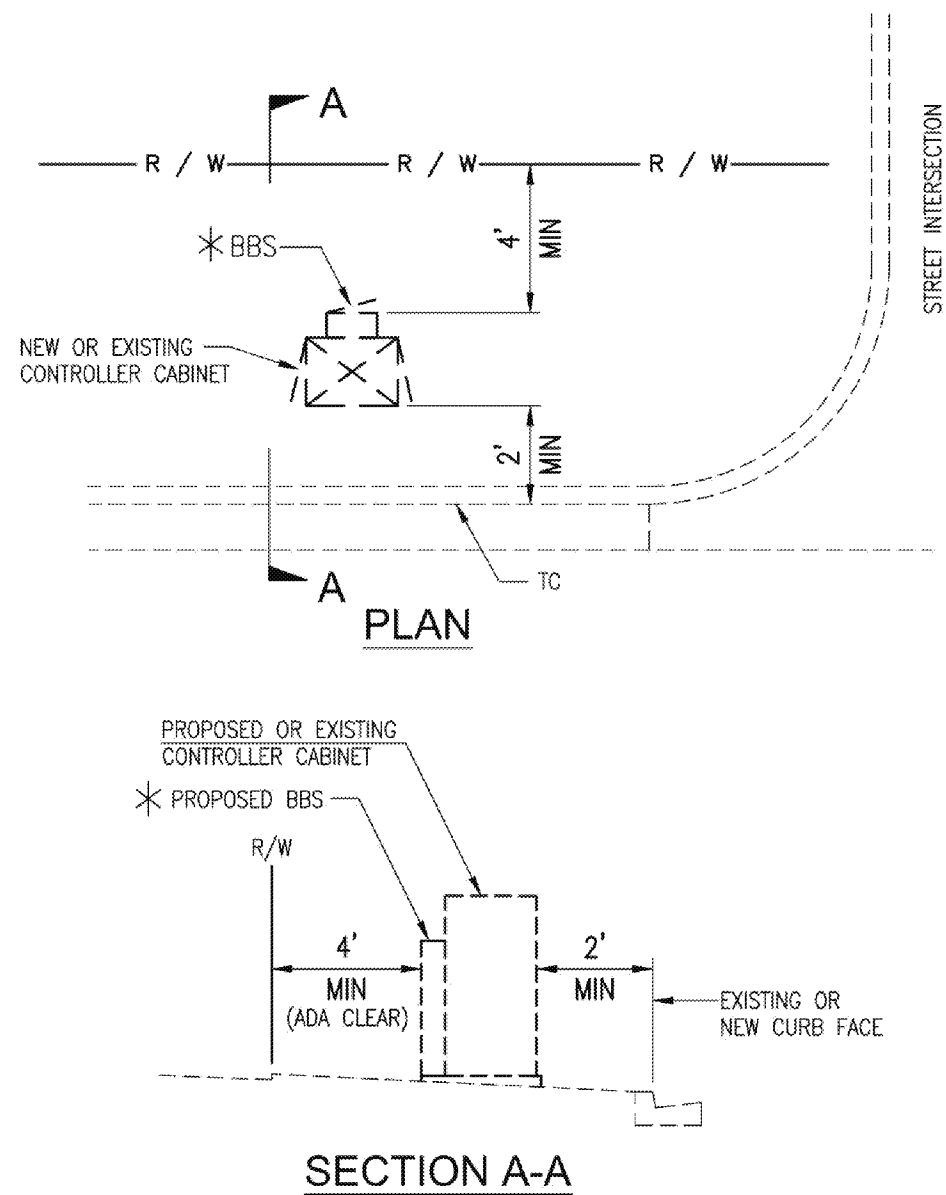
DATE



- NOTES:**
1. BBS CABINET SHALL BE ATTACHED TO THE 332 CONTROLLER CABINET WHERE INDICATED ON THE TRAFFIC SIGNAL PLANS. REFER TO DETAIL "F" HEREON.
 2. THE BBS CABINET SHALL CONTAIN THE UPS AND THE BATTERIES.

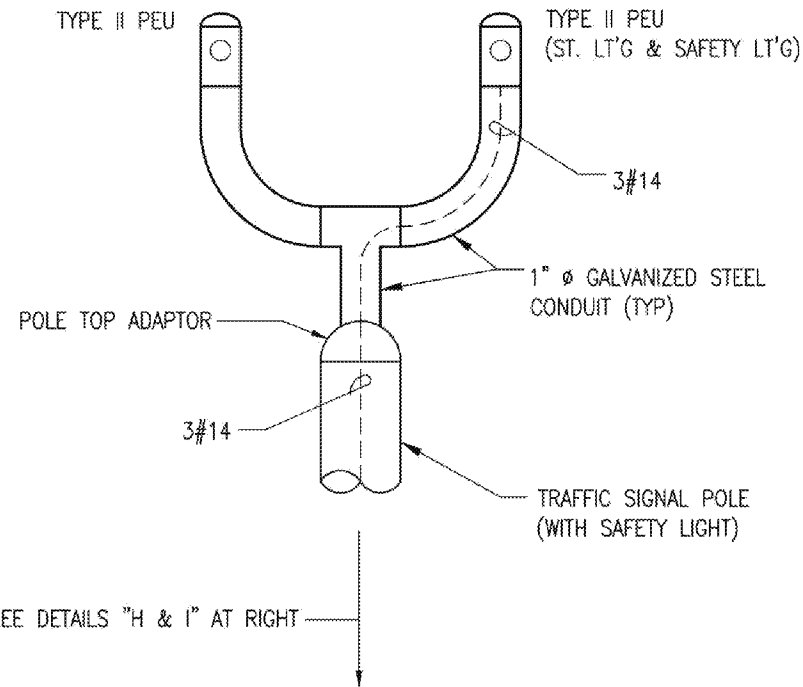
BATTERY BACKUP SYSTEM CABINET (BBS)

DETAIL "G"
NOT TO SCALE

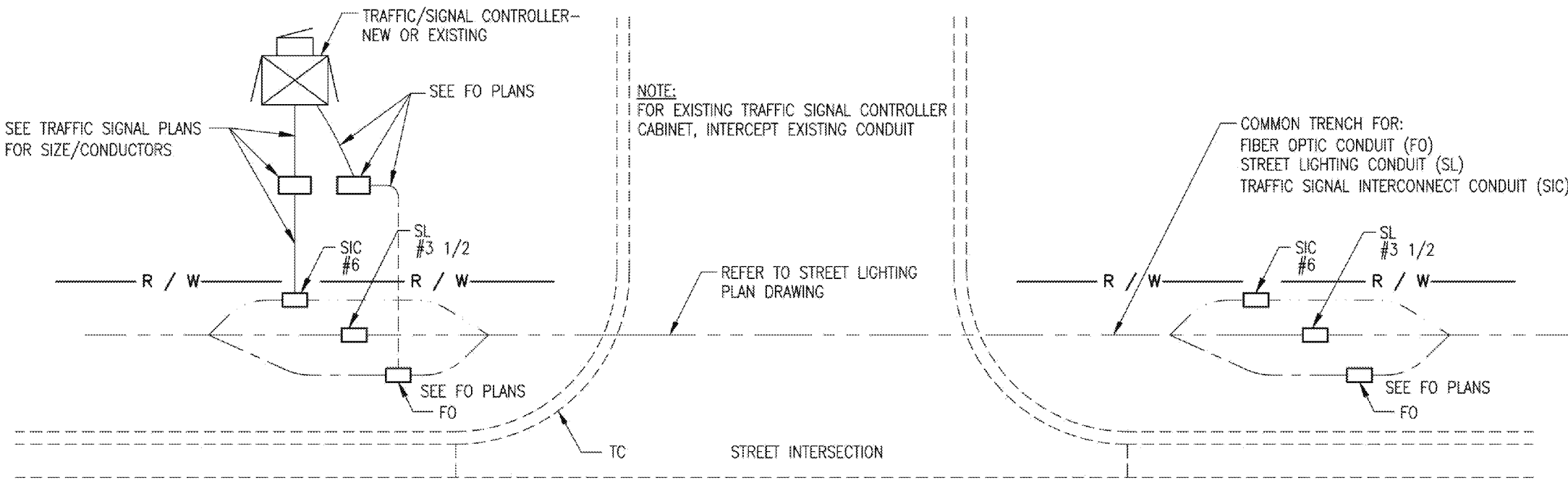


* REFER TO PLAN NO. TS-201B AND DETAIL "G" ON PLAN NO. TS-201A

CONTROLLER CABINET/BBS LOCATION

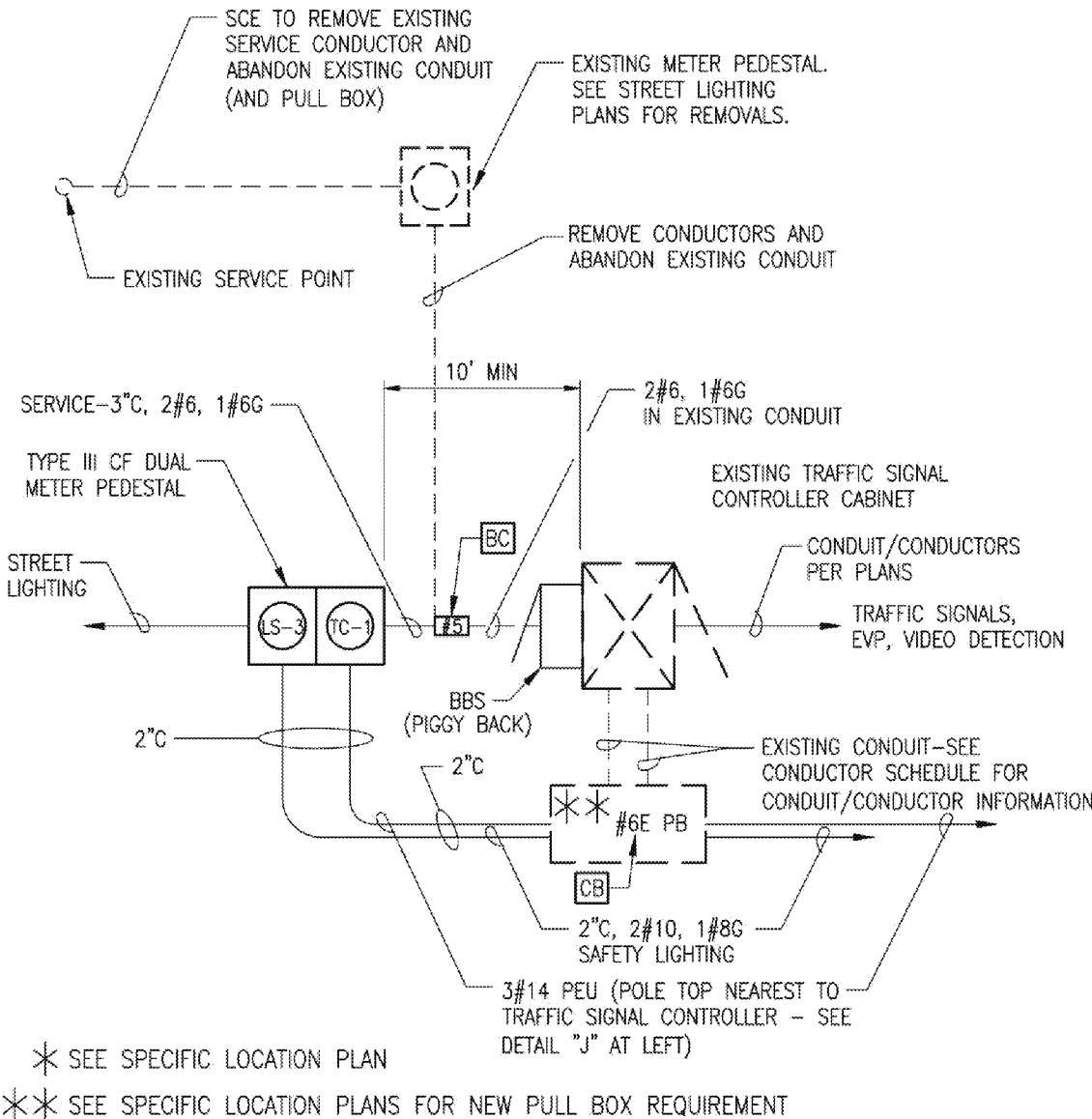


DETAIL "J"
NOT TO SCALE



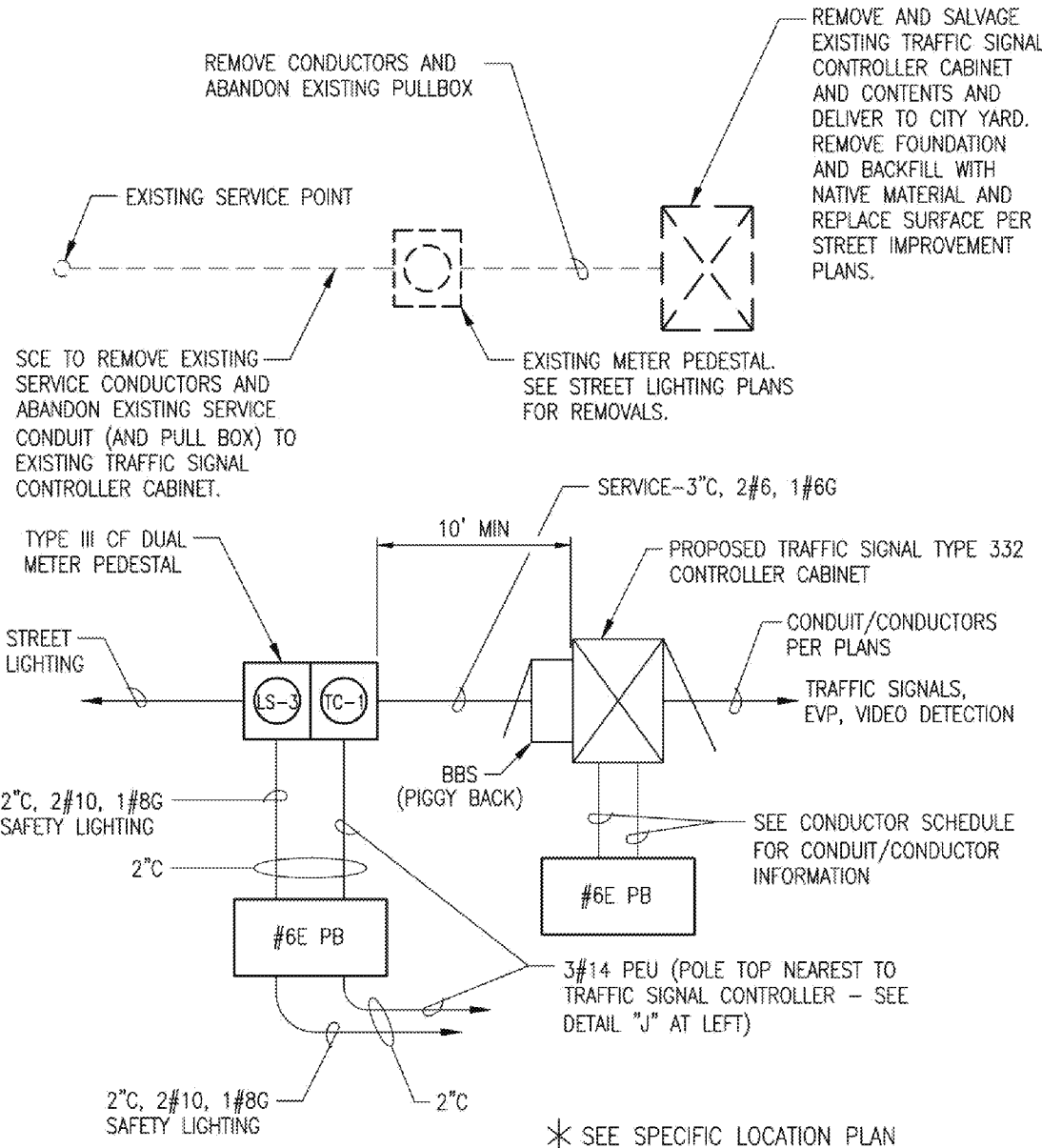
ELECTRICAL COMMON TRENCH LAYOUT SCHEMATIC
WITH TRAFFIC SIGNAL INTERCONNECT (SIC), STREET LIGHTING (SL) & FIBER OPTIC (FO) PULLBOX ARRANGEMENT

DETAIL "K"
NOT TO SCALE



TYPICAL ELECTRICAL SERVICE LAYOUT SCHEMATIC FOR NEW
SAFETY / STREET LIGHTING AND *EXISTING TRAFFIC SIGNAL CONTROLLER CABINET

DETAIL "I"
NOT TO SCALE



TYPICAL ELECTRICAL SERVICE LAYOUT SCHEMATIC FOR NEW
SAFETY / STREET LIGHTING AND *NEW TRAFFIC SIGNAL CONTROLLER CABINET

DETAIL "H"
NOT TO SCALE



DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

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

TRAFFIC SIGNAL PLANS - GENERAL NOTES & DETAILS

DESIGNED BY: _____

DRAWN BY: _____

CHECKED BY: _____

SUBMITTED BY / APPROVED BY:

VANESSA MUNOZ, P.E., P.E.S.T. CONSULTANT TRAFFIC ENGINEER

5/18/2015

PLAN SCALE:
NTS

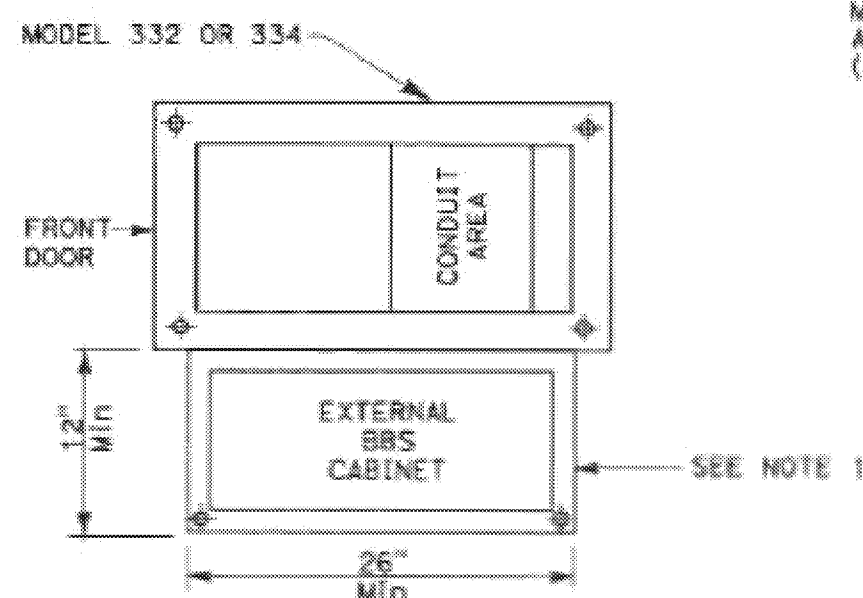
PROFILE SCALE:
VERTICAL
HORIZONTAL

PLAN NO.
TS-201A

SHEET NO.
33 OF 67



EXTERNAL BBS CABINET
MOUNTED TO THE
MODEL 332 OR 334 CABINET

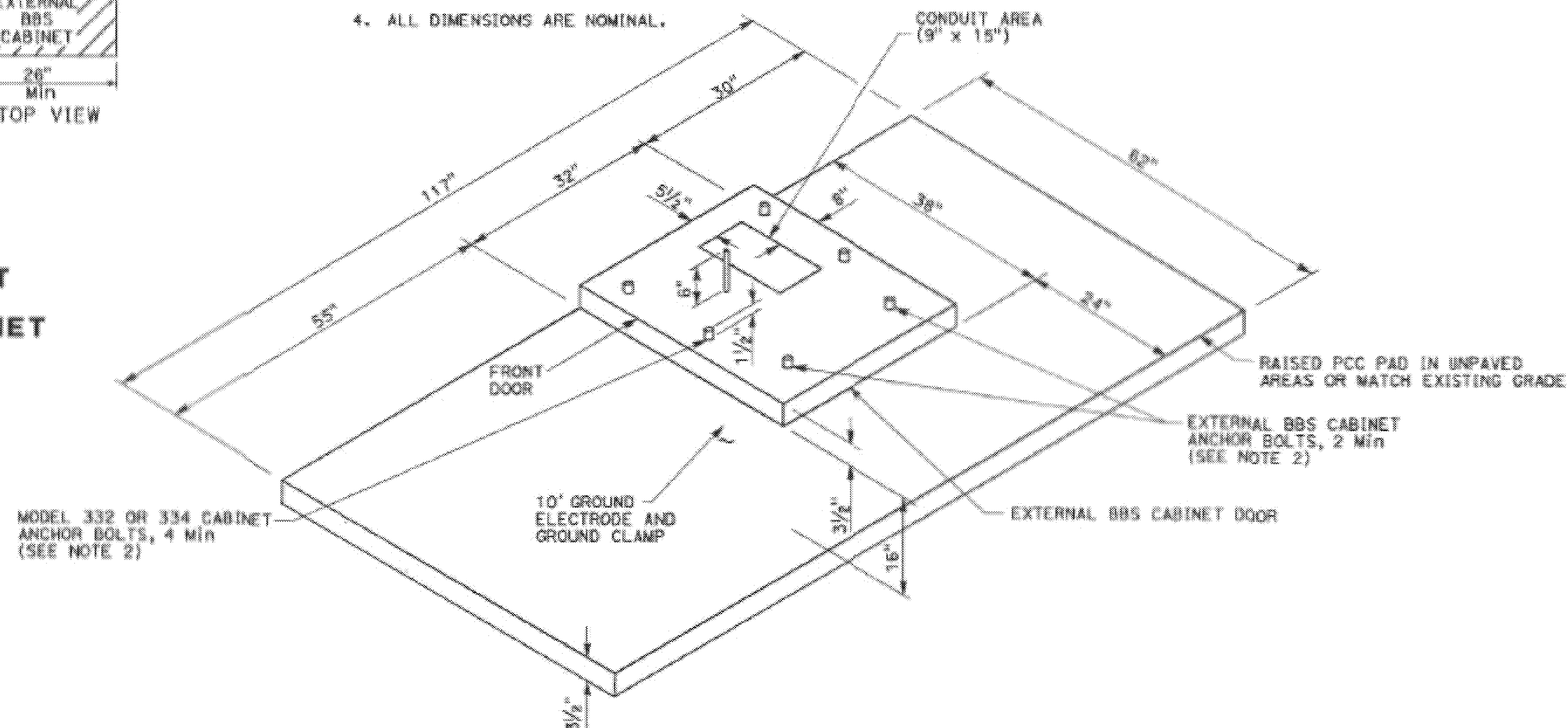


BASE PLAN FOR BBS
MOUNTED TO THE
MODEL 332 OR 334 CABINET

(FOR DIMENSIONS AND DETAILS NOT SHOWN, SEE SHEET A6-1 TO A6-4, CABINET HOUSING DETAILS OF THE TRANSPORTATION ELECTRICAL EQUIPMENT SPECIFICATION (TEES))

NOTE: (THIS SHEET ONLY)

1. THE EXTERNAL BBS CABINET SHALL BE MOUNTED TO THE MODEL 332 OR 334 CABINET WITH FOUR 18-8 STAINLESS STEEL HEX HEAD, FULLY-THREADED, $\frac{3}{8}$ "-16 X 1" BOLTS; TWO WASHERS PER BOLT, DESIGNED FOR $\frac{3}{8}$ " BOLTS AND ARE 18-8 STAINLESS STEEL, 1" OUTSIDE DIAMETER, ROUND, AND FLAT; AND ONE K-LOCK NUT PER BOLT THAT IS 18-8 STAINLESS STEEL AND A HEX-NUT. THE ENGINEER WILL HAVE TO APPROVE THE BOLT MOUNTING LOCATION PRIOR TO INSTALLATION.
2. THE ANCHOR BOLTS SHALL BE $\frac{3}{4}$ " Dia X 15" WITH A 2"-90° BEND. THE CABINET MANUFACTURER'S SPECIFICATION SHALL DETERMINE THE LOCATION OF THE ANCHOR BOLTS IN THE FOUNDATION. THE ENGINEER WILL HAVE TO APPROVE THE ANCHOR BOLTS AND ITS LOCATION IN THE FOUNDATION PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL VERIFY THE DIMENSIONS OF THE BBS CABINET PRIOR TO CONSTRUCTING THE FOUNDATION OF THE MODIFIED PORTION OF THE STD MODEL 332 AND 334 CABINET FOUNDATION. THE ENGINEER WILL HAVE TO APPROVE ANY NECESSARY DEVIATIONS PRIOR TO CONSTRUCTION.
4. ALL DIMENSIONS ARE NOMINAL.



**MODIFIED MODEL 332 AND 334 CABINET
FOUNDATION DETAIL FOR BATTERY BACKUP SYSTEM (BBS)**

(FOR DIMENSIONS AND DETAILS NOT SHOWN AND ADDITIONAL NOTES, SEE SHEET ES-3C OF THE STANDARD PLANS FOR MODEL 332 AND 334 CABINETS)

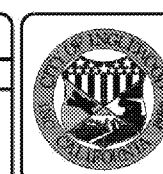
ELECTRICAL SYSTEMS

(BBS FOUNDATION DETAILS)



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG

[illegible]

PLAN SCALE:
NTS

DESIGNED BY:
DRAWN BY:
CHECKED BY:

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE: PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
FELTON AVE TO INGLEWOOD AVE
BBS FOUNDATION DETAILS

SUBMITTED BY / APPROVED BY
Vanessa Munoz
VANESSA MUNOZ, BCL, B7821 / CONSULTANT

5/18/2015

PLAN NO.
TS-201B
SHEET NO.
34 OF 67

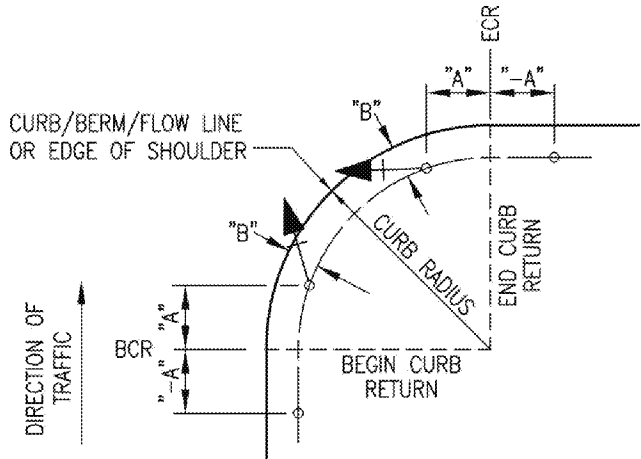
CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

SPEED AND VEHICLE DETECTOR DISTANCE FROM LIMIT LINE FOR ADVANCE DETECTION

APPROACH SPEED, MPH	DISTANCE OF ADVANCE LOOP FROM LIMIT LINE, FT*
25	105
30	140
35	185
40	230
45	285

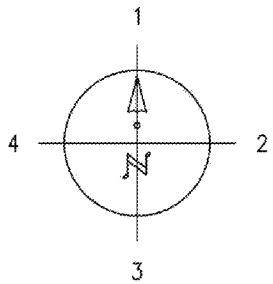
* PER CHAPTER 4D, CALIFORNIA 2014 MUTCD TABLE 4D-101(CA)

DETAIL "A"
NOT TO SCALE



DIMENSIONED ON PLANS.
* TYPICAL SIGNAL STANDARD PLACEMENT
* FOR "A" AND "B" DIMENSIONS, SEE POLE SCHEDULE OR AS DIRECTED BY THE ENGINEER.

DETAIL "B"
NOT TO SCALE

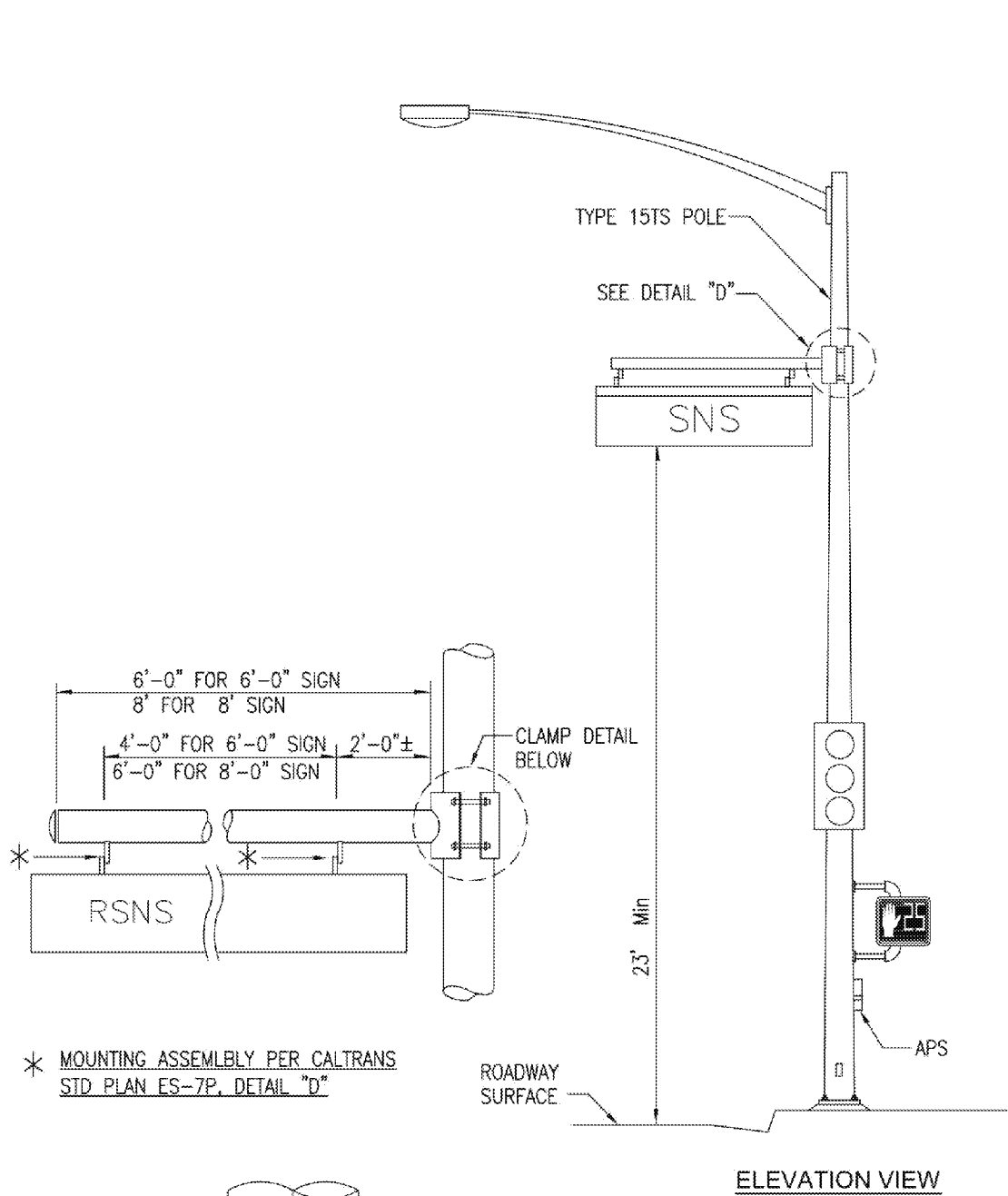


PUSH BUTTON LOCATION

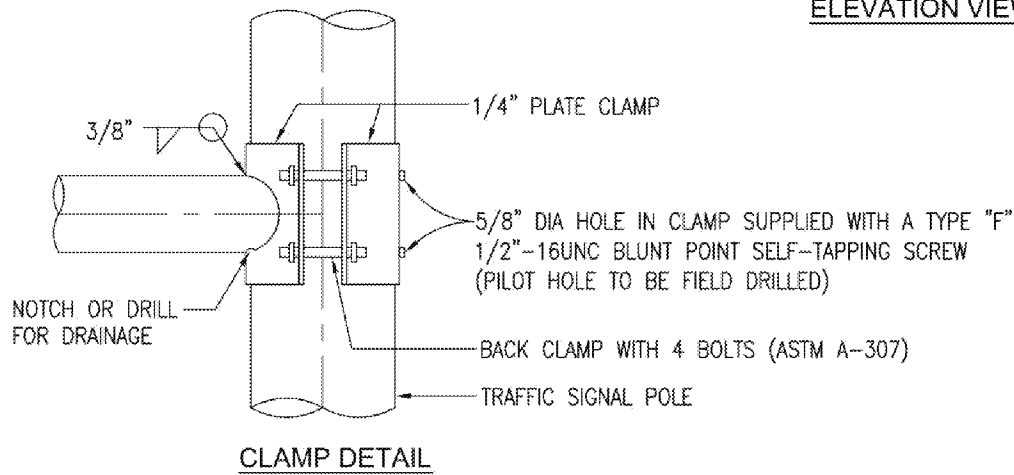
DETAIL "C"
NOT TO SCALE



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

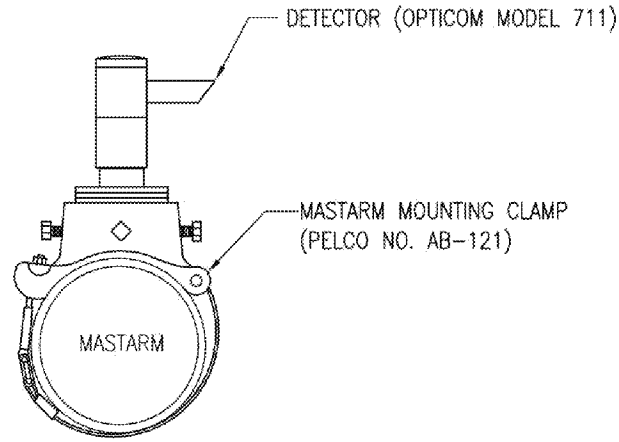


* MOUNTING ASSEMBLY PER CALTRANS STD PLAN ES-7P, DETAIL "D"



TYPICAL STREET NAME SIGN MAST ARM & MOUNTING FOR TYPE 15 TS

DETAIL "D"
NOT TO SCALE



EMERGENCY VEHICLE PRE-EMPTION DETECTOR MASTARM MOUNTING DETAIL


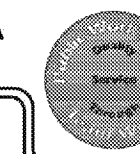
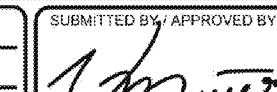
DETAIL "E"
NOT TO SCALE

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 UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA (DIGALERT) TO MARK THE LOCATION OF ALL SUBSTRUCTURES, WHETHER SHOWN OR NOT ON THESE DRAWINGS, AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF FIELD MARKING. THE CONTRACTOR SHALL USE PRECAUTION WHEN EXCAVATING. SUBSTRUCTURES ENCOUNTERED SHALL BE EXPOSED AND THE ENGINEER NOTIFIED OF THEIR EXISTENCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL SUBSTRUCTURES, WHETHER SHOWN OR NOT, ON THESE DRAWINGS. THE CONTRACTOR SHALL REPAIR, AT OWN EXPENSE, ANY SUBSTRUCTURES DAMAGE CAUSED BY HIS/HER OPERATIONS.

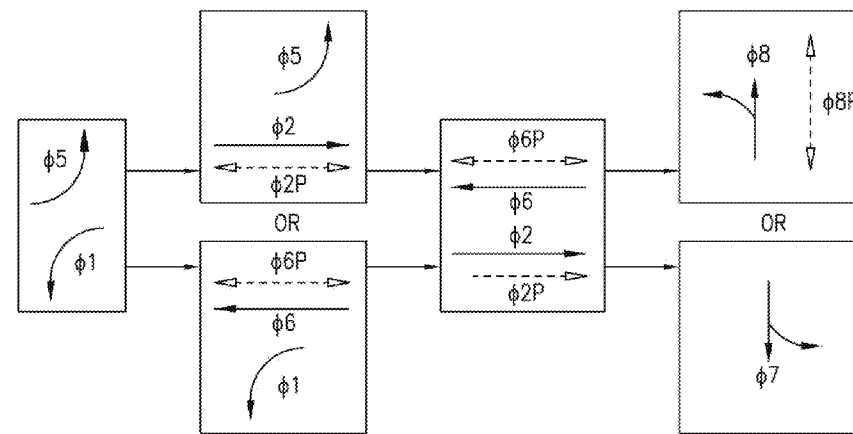
CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

REVISIONS		
MARK	DATE	DESCRIPTION

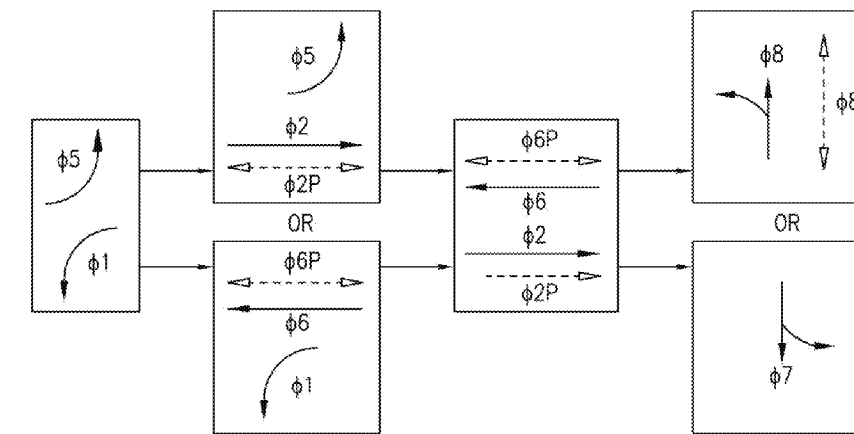
 CITY OF INGLEWOOD, CALIFORNIA PUBLIC WORKS DEPARTMENT		 CITY OF INGLEWOOD, CALIFORNIA PUBLIC WORKS DEPARTMENT	
PROJECT TITLE: CENTURY BOULEVARD FELTON AVE TO INGLEWOOD AVE TRAFFIC SIGNAL PLANS - DETAILS		DESIGNED BY: DRAWN BY: CHECKED BY:	
SUBMITTED BY / APPROVED BY:  VANESSA MUNOZ, RCE #1501, CONSULTANT TRAFFIC ENGINEER		DATE: 5/18/2015	
PLAN SCALE: NTS		PROFILE SCALE: VERTICAL HORIZONTAL	
SHEET NO. 35 OF 67		PLAN NO. TS-201C	



PROPOSED PHASE SEQUENCING DIAGRAM

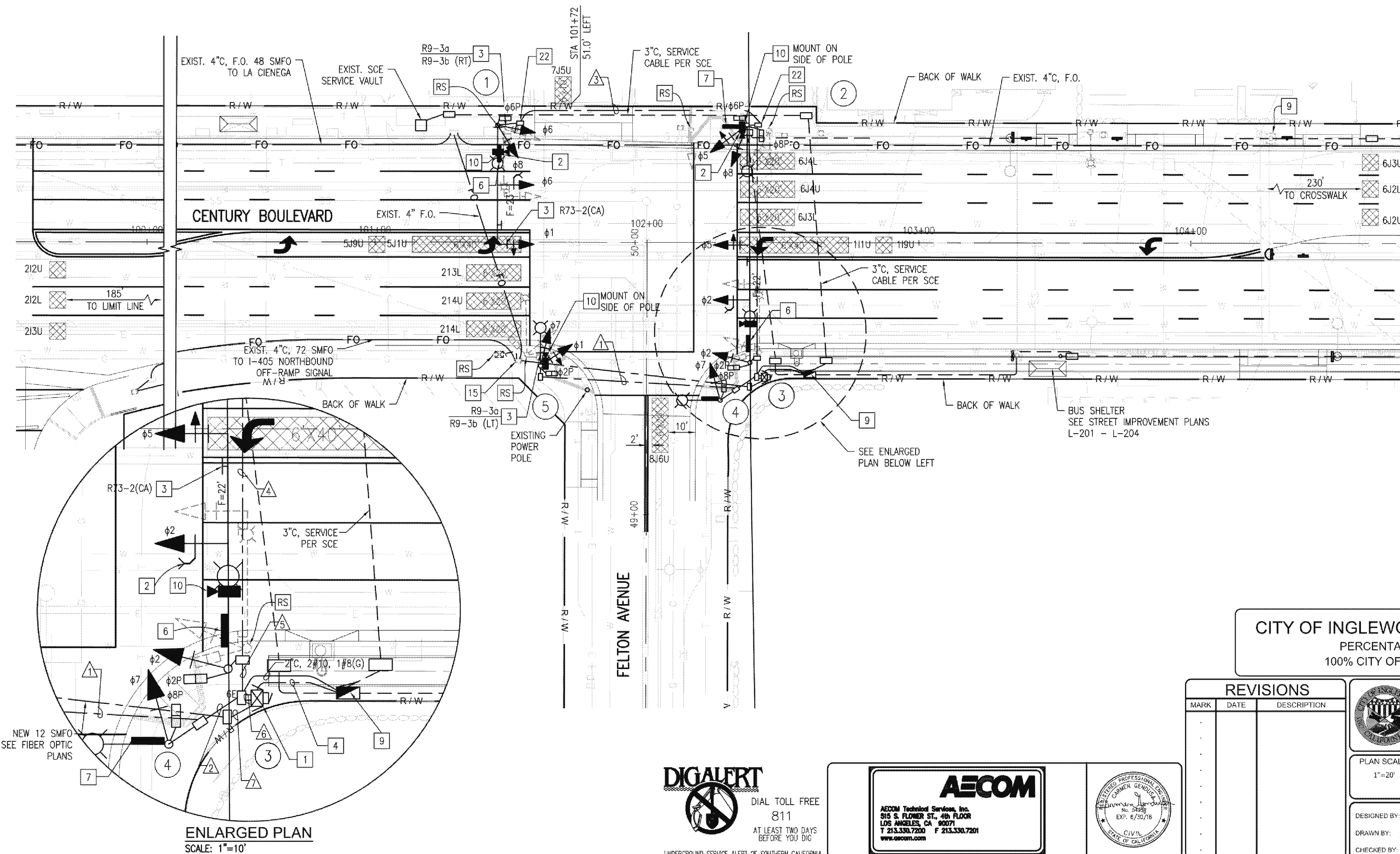


EXISTING PHASE SEQUENCING DIAGRAM



CONSTRUCTION NOTES


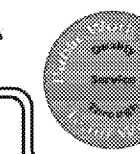
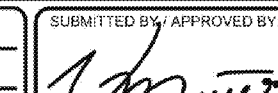
- 1 FURNISH AND INSTALL TYPE 2070L CONTROLLER IN TYPE 332L ALUMINUM CABINET, AND CONTROLLER ASSEMBLY PER CALTRANS TEES SPECIFICATIONS FOR 8 PHASE OPERATION. INCLUDE ALL NECESSARY ACCESSORIES TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE 332L CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES. BBS CABINET SHALL BE FURNISHED WITH A GENERATOR HOOK-UP AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.
- 2 FURNISH AND INSTALL 3M OPTICOM DETECTOR MODEL 721, 3M MODEL 138 DETECTOR CABLE PLUS TWO 3M OPTICOM 2-CHANNEL RACK MOUNTED PHASE SELECTORS, MODEL W-752 INTO CONTROLLER CABINET. OPTICOM DETECTOR SHALL BE MOUNTED ON VEHICLE SIGNAL HEAD PER CALTRANS STD PLAN ES-4E.
- 3 FURNISH AND INSTALL MAST ARM OR SIGNAL POLE MOUNTED SIGN AS NOTED ON PLAN, PER CALTRANS STANDARDS.
- 4 FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT WITH 2 #6 SERVICE CONDUCTORS AND 1 #8 GROUND CONDUCTOR BETWEEN METER PEDESTAL AND CONTROLLER CABINET.
- 5 CONNECT 2070L CONTROLLER TO RS-232 FIBER OPTIC DATA TRANSCEIVER (FODT). CONTRACTOR SHALL PROVIDE ALL NECESSARY CABLES AND ACCESSORIES TO COMPLETE CONSTRUCTION.
- 6 FURNISH AND INSTALL REFLECTORIZED STREET NAME SIGN ON SIGNAL MAST ARM SIMILAR TO I.I.S.N.S. MOUNTING ON CALTRANS STANDARD PLAN ES-7P. CONTRACTOR SHALL SUBMIT DETAILED PLAN OF MOUNTING HARDWARE TO CITY FOR APPROVAL.
- 7 FURNISH AND INSTALL STREET NAME SIGN ON STRAIGHT ARM PER MOUNTING DETAIL "D" ON TS-201C.
- 9 SEE STREET LIGHTING PLANS E-202 - E-203 FOR NEW SERVICE PEDESTAL, AND E-205 FOR STREET LIGHTING FOR TRAFFIC SIGNAL LUMINAIRES.
- 10 INSTALL VIDEO DETECTION CAMERA PER SPECIFICATIONS.
- 15 ADJUST EXISTING PULL BOX TO GRADE.
- 16 EXISTING CONDUIT TO REMAIN.
- 22 REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-201A.
- RS REMOVE AND SALVAGE EQUIPMENT



CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

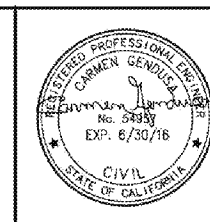
20' 10' 0' 20'
SCALE: 1" = 20'

REVISIONS		
MARK	DATE	DESCRIPTION








 CITY OF INGLEWOOD, CALIFORNIA PUBLIC WORKS DEPARTMENT		
PROJECT TITLE: PLANS FOR IMPROVEMENT OF CENTURY BOULEVARD FELTON AVE TO INGLEWOOD AVE TRAFFIC SIGNAL PLANS - FELTON AVE		
PLAN SCALE: 1"=20'	DESIGNED BY: DRAWN BY: CHECKED BY:	SUBMITTED BY / APPROVED BY:  VANESSA MUNOZ, RCE, RFSM, CONSULTANT TRAFFIC ENGINEER DATE: 5/18/2015
CITY OF INGLEWOOD PROJECT NO. TS-202 SHEET NO. 36 OF 67		PROFILE SCALE: VERTICAL HORIZONTAL



UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA



POLE AND EQUIPMENT SCHEDULE

POLE AND EQUIPMENT SCHEDULE															
NO.	STANDARD				LED LUMINAIRE	R.S.N.S LEGEND	SIGNAL MOUNTING			PED PUSH BUTTON (2) SEE DETAIL "C" *			POLE LOCATION SEE DETAIL "B" *		REMARKS
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			VEHICLE		PED (1)	QUAD.	PHASE	ARROW	A	B	
							M. A.	POLE							
①	26-4-100	30'	45'	12'	196W	 Felton	2-MAS	SV-2-TA	SP-1-T	1	6		STA 101+48	5'	POLE FOUNDATION TO CELAR EXIST VAULT STRUCTURE BY MIN. 1 FOOT
②	15TS	30'	—	12'	196W	Century	—	SV-2-TA	SP-2-T	1 2	6 8		STA 102+36	7'	
③	26-4-100	30'	45'	12'	196W	Felton 	2-MAS	SV-1-T	SP-1-T	4	8		5'	4.5'	
④	15TS	30'	—	12'	196W	Century	—	SV-1-T	SP-1-T	1	2		6'	8'	
⑤	15TS	30'	—	12'	196W	—	—	SV-2-TA	SP-1-T	3	2		5'	3'	

ALL SIGNAL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

* SEE SHEET TS-201C

(1) LED COUNT DOWN PEDESTRIAN SIGNAL FACE

(2) ACCESSIBLE PEDESTRIAN SIGNAL

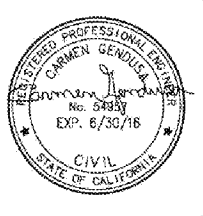
CONDUCTOR AND CONDUIT SCHEDULE

AWG SIZE OR CABLE TYPE	POLE & PHASES	CONDUIT LOCATION						
		1	2	3	4	5	6	*7
12 CABLE 11-#14 1-#12 (3-#14, PPB) 3 CABLE	① -φ1, φ6, φ8, φ6P, φ6PPB	-/-	-/-	2/1	2/1	2/1	2/1	-/-
	② -φ5, φ8, φ6P, φ8P, φ6PPB, φ8PPB	-/-	-/-	-/-	1/2	1/2	1/2	-/-
	③ -φ2, φ5, φ2P, φ8PPB	-/-	-/-	-/-	-/-	1/1	1/1	-/-
	④ -φ7, φ8P, φ2PPB	-/-	1/1	-/-	-/-	-/-	1/1	-/-
	⑤ -φ1, φ7, φ2P, φ2PPB	1/1	1/1	-/-	-/-	-/-	1/1	-/-
TOTALS: 12 CONDUCTOR / 3 CONDUCTOR		1/1	2/2	2/1	3/3	4/4	6/6	-/-
#10	LUMINAIRES	2	4	4	4	4	-	-
VIDEO DETECTION CABLE		1	-	1	2	1	4	-
EV CABLE		-	-	1	2	1	3	-
12 SMFO CABLE		-	-	-	-	-	-	1
CONDUIT % FULL		8	14	21	18	21	16	-
CONDUIT SIZE		3"	3"	3"	4"	4"	2-4"	3"


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

* SEE FIBER OPTIC PLANS FOR CONDUIT SIZE, F.O. CABLE LOCATIONS

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD



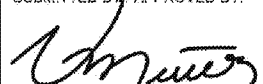
REVISIONS		
MARK	DATE	DESCRIPTION




CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
FELTON AVE TO INGLEWOOD AVE
TRAFFIC SIGNAL PLANS - FELTON AVE

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

SUBMITTED BY: _____
APPROVED BY: 
VANESSA MUNOZ, P.E., P.T.S.E., CONSULTANT TRAFFIC ENGINEER
DATE: 5/18/2015

PLAN NO.
TS-202A
SHEET NO.
37 OF 67



PROFILE SCALE:
VERTICAL
HORIZONTAL