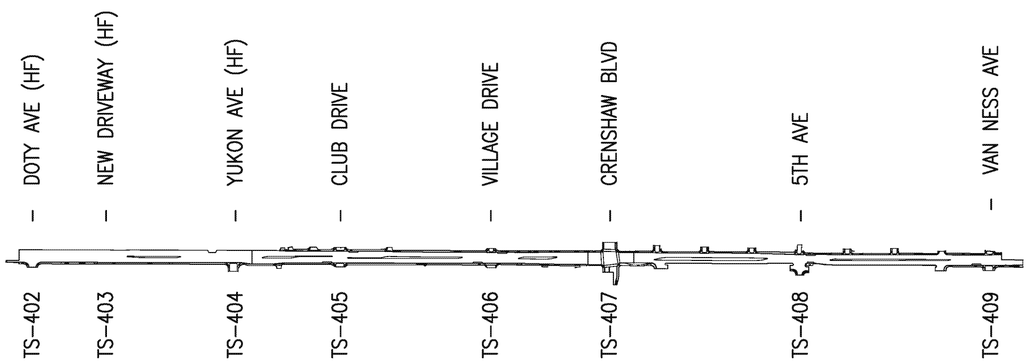
ST-4696



CENTURY BOULEVARD

1"=500' 0 250 500 1000 1500

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENOVA
No. 54087
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL KEY PLAN

PLAN SCALE: 1"=500'

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 87583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-400
SHEET NO. 96 OF 215

Drawing Name: W:\6016\6003_CBRS_Inglewood\CAD\Civil\Signal Plans\CB-TS-400.dwg
Last Opened: May 14, 2015 - 4:21 PM by ulvalcalcd

ST-4696

ST-4696

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 2012 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 WI FI 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-411, E-412.
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-401A
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 2012 CALIFORNIA MANUAL OF TRAFFIC CONTROL DEVICES (MUTCD).
17. FOR STRIPING DETAILS SEE STRIPING AND SIGNING PLANS (PLAN NUMBERS SPD-401 THROUGH SPD-409).
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. WI FI AND VIDEO VEHICLE DETECTORS SHALL BE CENTERED WITHIN THE LANE AND SHALL BE 6 FEET IN WIDTH. WI FI DETECTORS SHALL BE INSTALLED WITH 1/2 INCH OF CLEARANCE TO TOP OF FINAL PAVEMENT SURFACE. 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. 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 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.

GENERAL NOTES CONTINUED

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
- WIFI VEHICLE DETECTOR
- PROPOSED VIDEO VEHICLE DETECTION AREA
- EXISTING VIDEO VEHICLE DETECTION AREA
- —— W —— EXISTING UTILITY
- —— W —— PROPOSED UTILITY
- —— FO —— PROPOSED FIBER OPTIC
- —— FO —— EXISTING FIBER OPTIC

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER — CARMEN GONZALEZ — No. 54189 — EXP. 6/30/16 — CIVIL — STATE OF CALIFORNIA

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - GENERAL NOTES & LEGEND

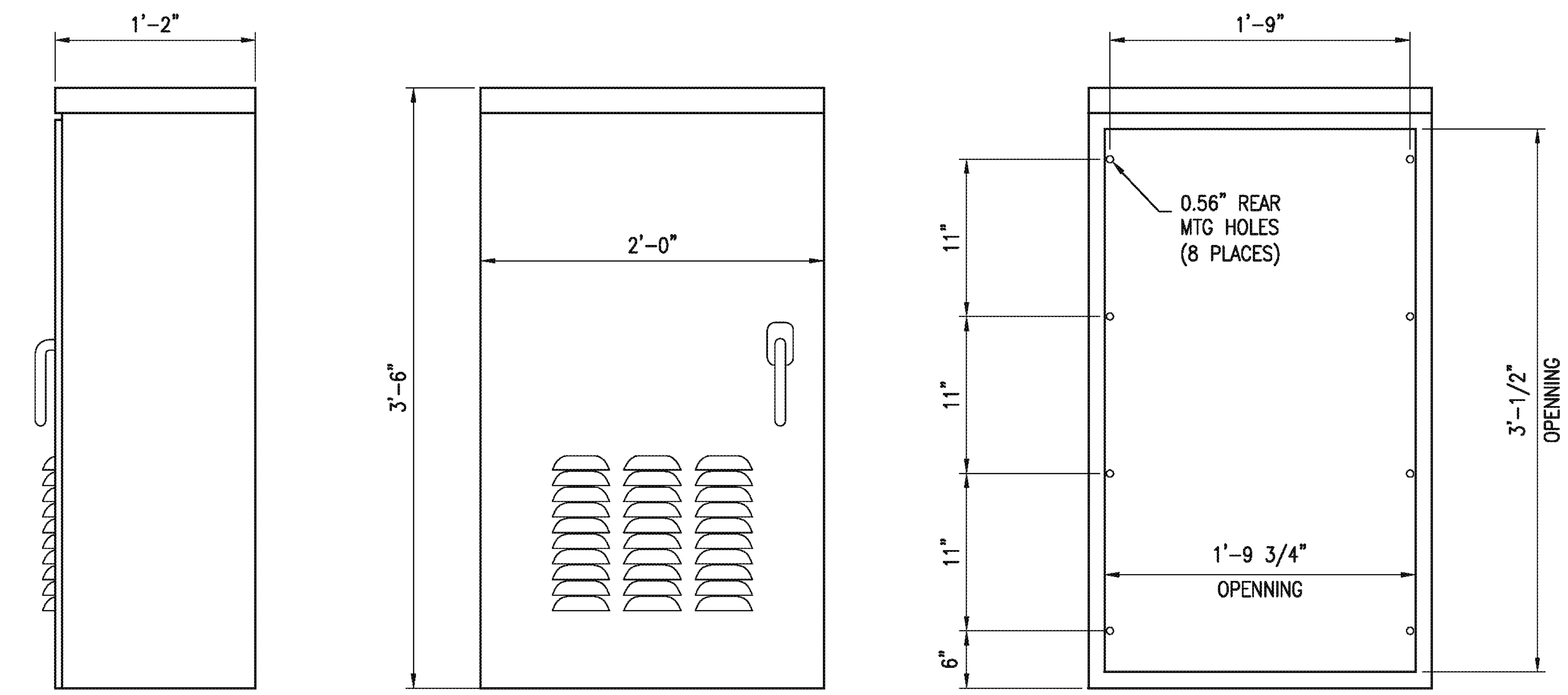
PLAN SCALE: NTS
PROFILE SCALE: VERTICAL / HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER — DATE 5/18/2015

PLAN NO. TS-401
SHEET NO. 97 OF 215

ST-4696



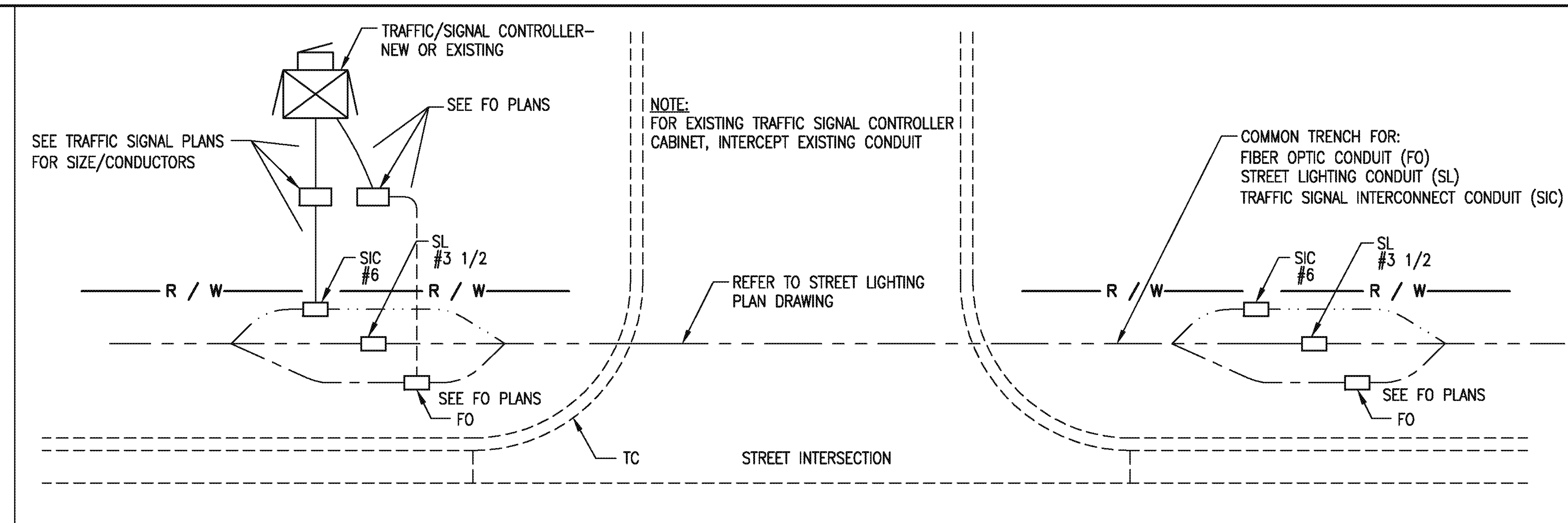
NOTES:

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"

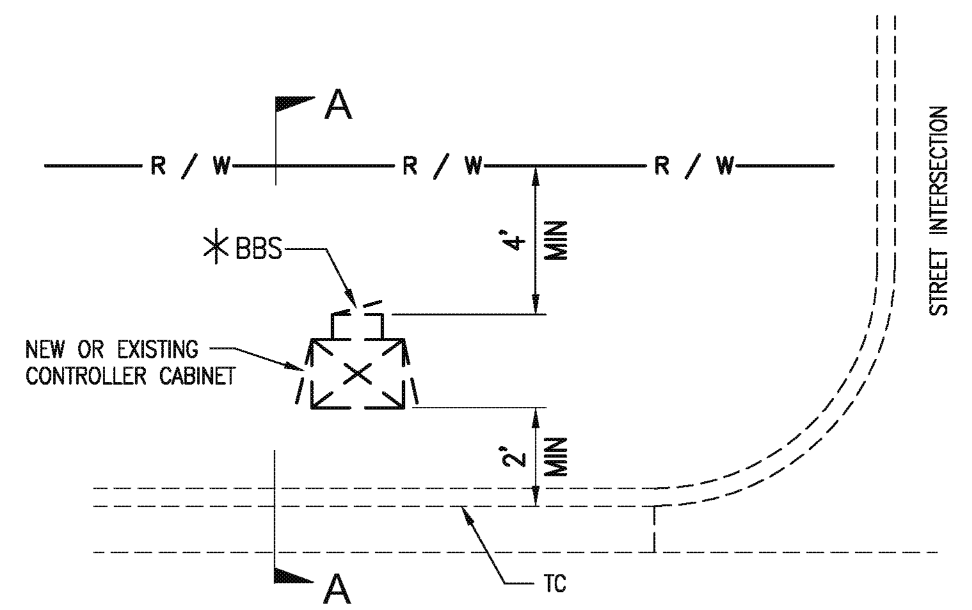
NOT TO SCALE



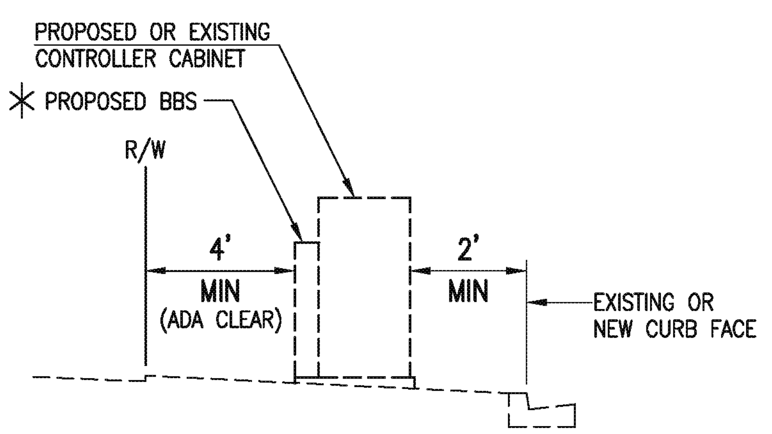
ELECTRICAL COMMON TRENCH LAYOUT SCHEMATIC
WITH TRAFFIC SIGNAL INTERCONNECT (SIC), STREET LIGHTING (SL) & FIBER OPTIC (FO) PULLBOX ARRANGEMENT

DETAIL "K"

NOT TO SCALE



PLAN



SECTION A-A

✻ REFER TO PLAN NO. TS-401B AND DETAIL "G" ON PLAN NO. TS-401A

CONTROLLER CABINET/BBS LOCATION

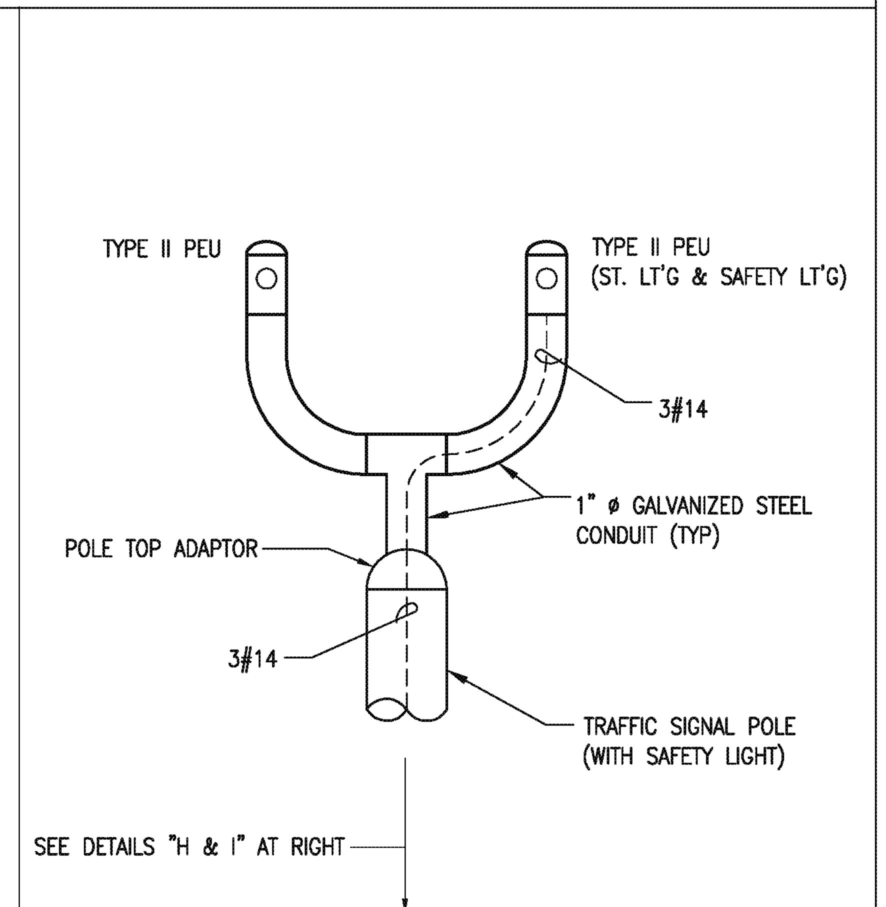
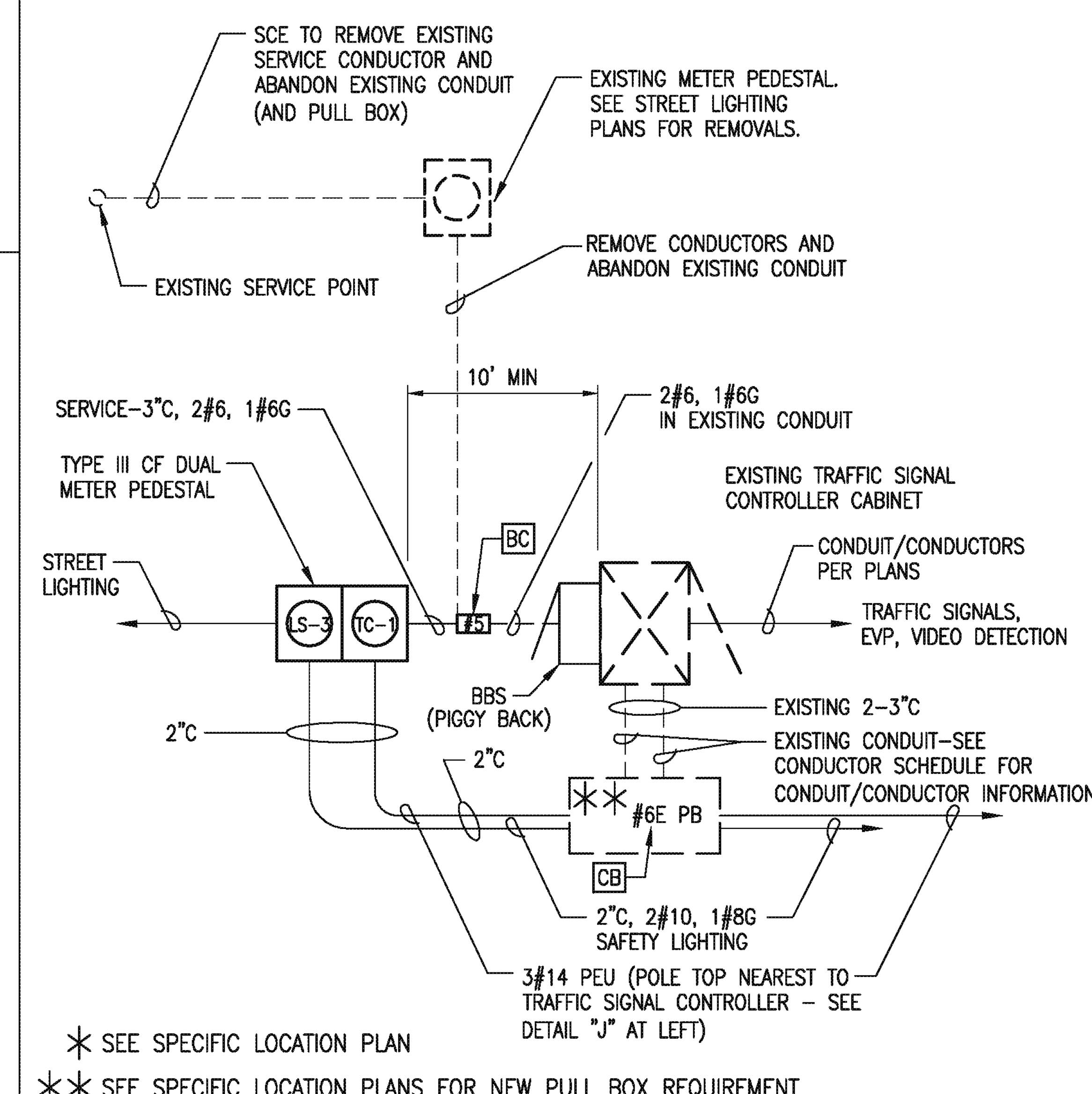


PHOTO ELECTRIC CONTROL

DETAIL "J"

NOT TO SCALE



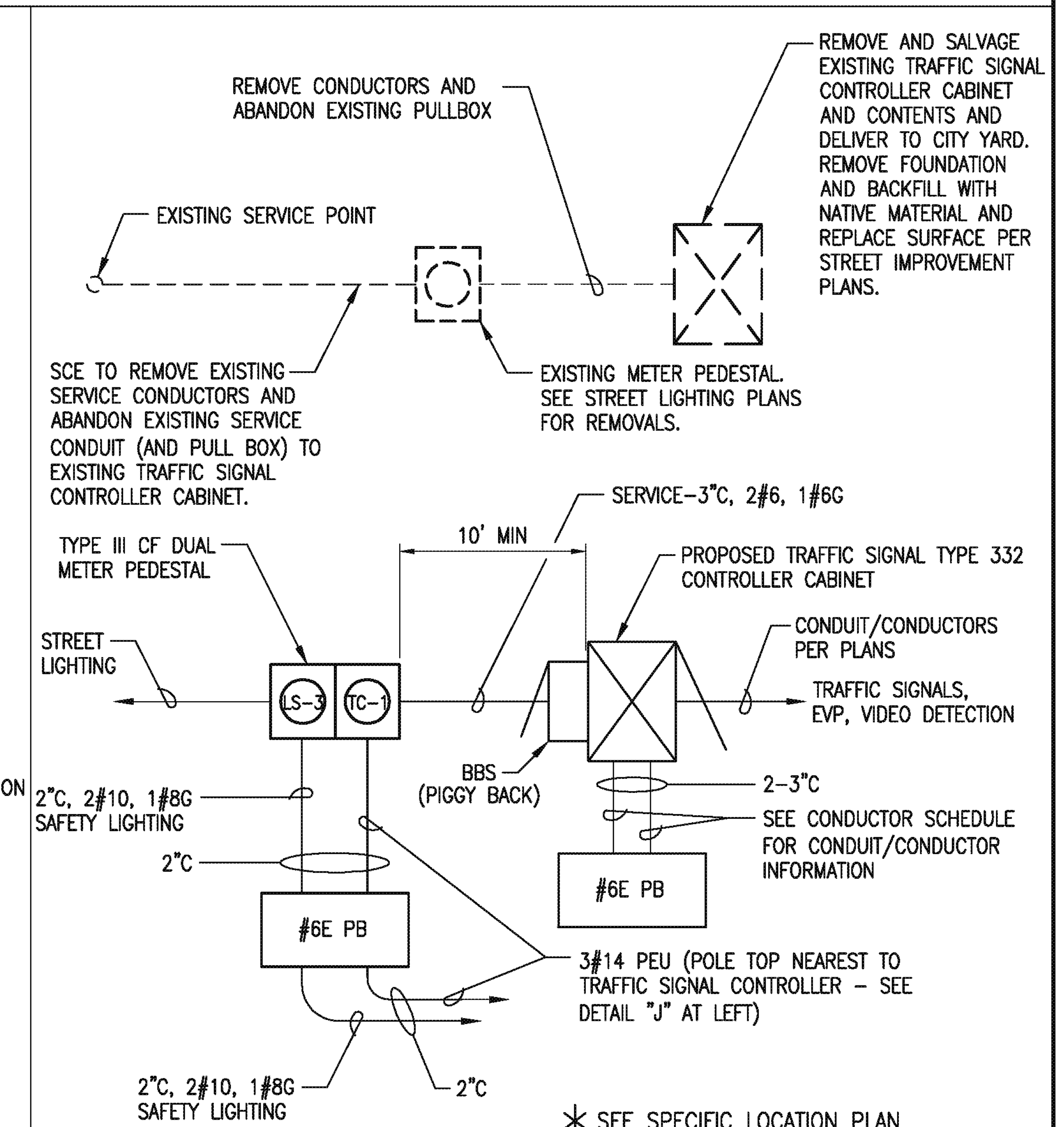
✻ SEE SPECIFIC LOCATION PLAN

✻✻ SEE SPECIFIC LOCATION PLANS FOR NEW PULL BOX REQUIREMENT

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

DETAIL "I"

NOT TO SCALE



✻ SEE SPECIFIC LOCATION PLAN

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

DETAIL "H"

NOT TO SCALE

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS
BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSO
No. 54287
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - GENERAL NOTES & DETAILS

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL
HORIZONTAL

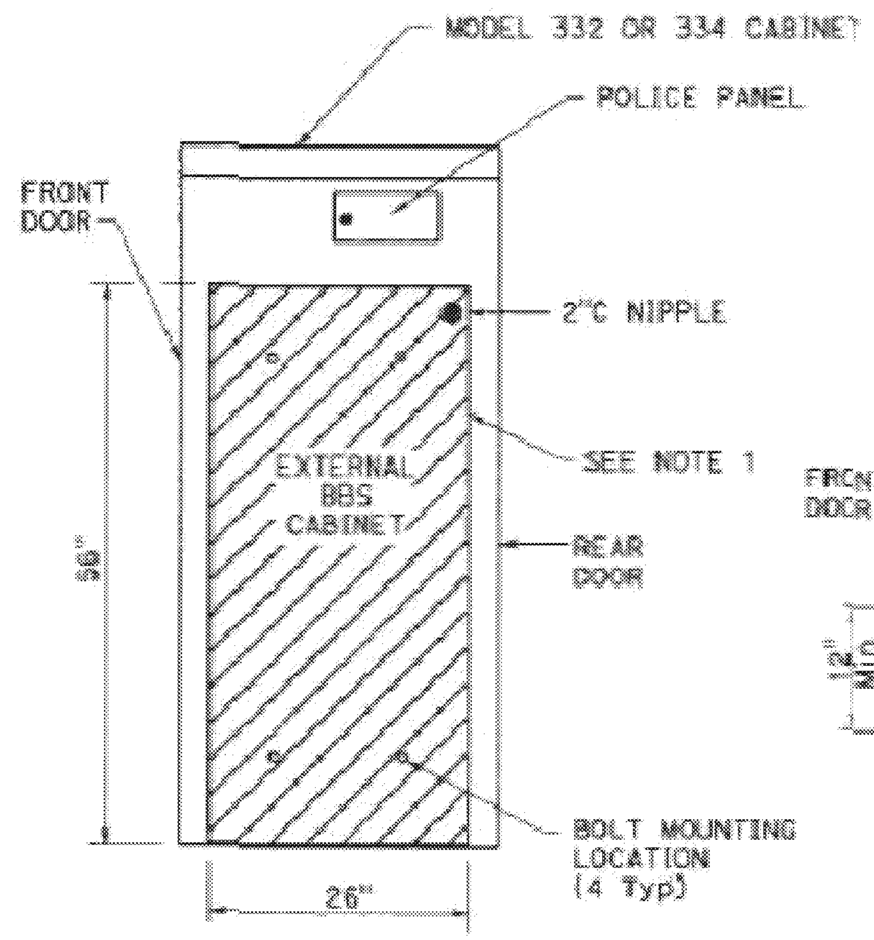
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

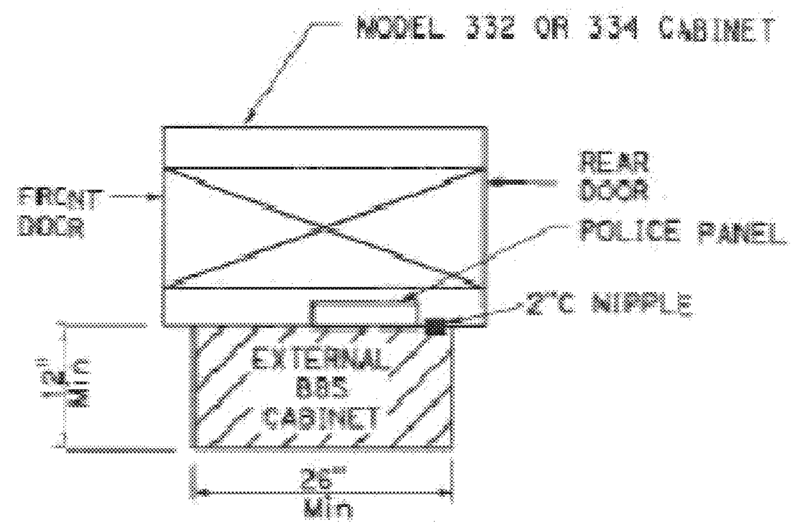
PLAN NO.
TS-401A

SHEET NO.
98 OF 215

ST-4696



SIDE VIEW

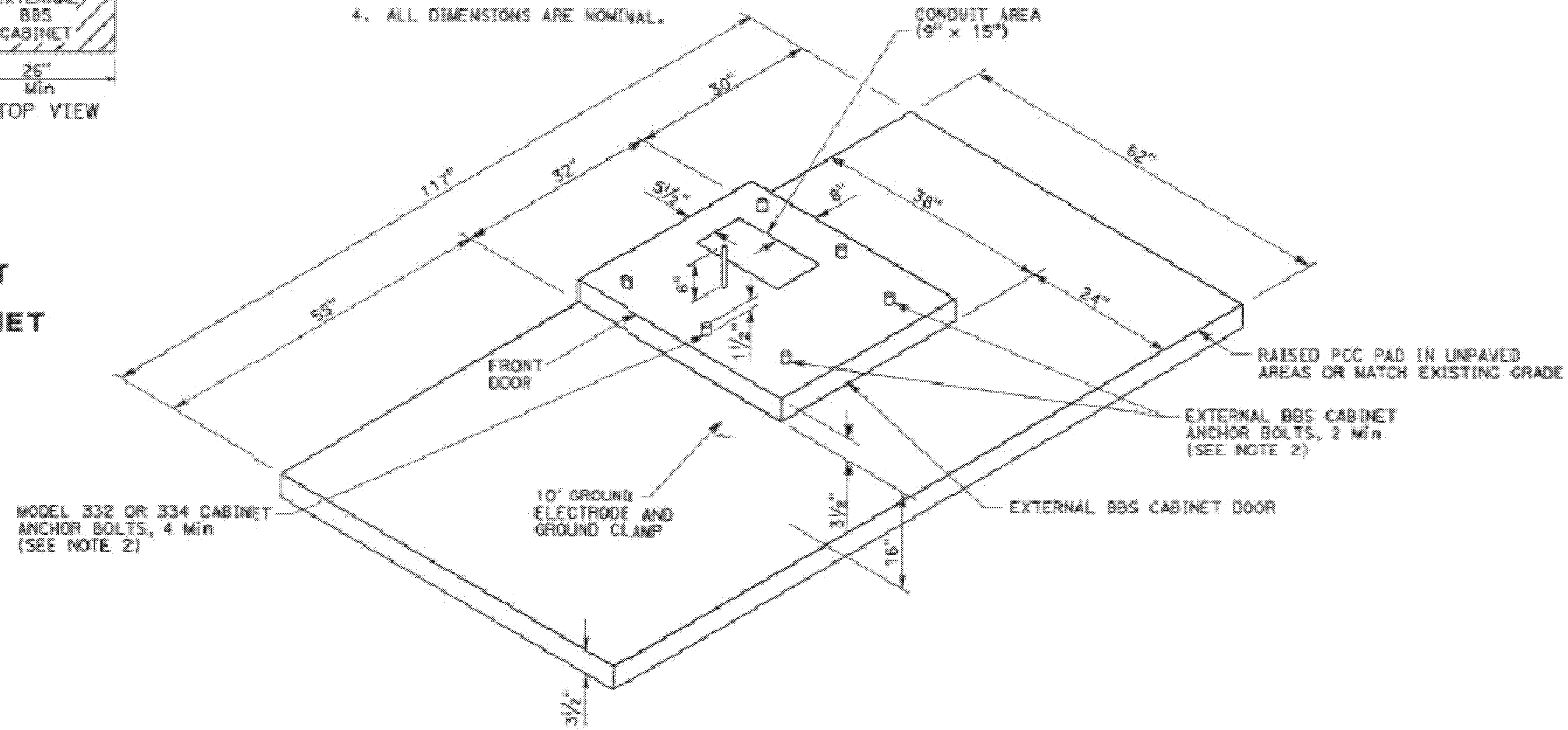


TOP VIEW

EXTERNAL BBS CABINET MOUNTED TO THE MODEL 332 OR 334 CABINET

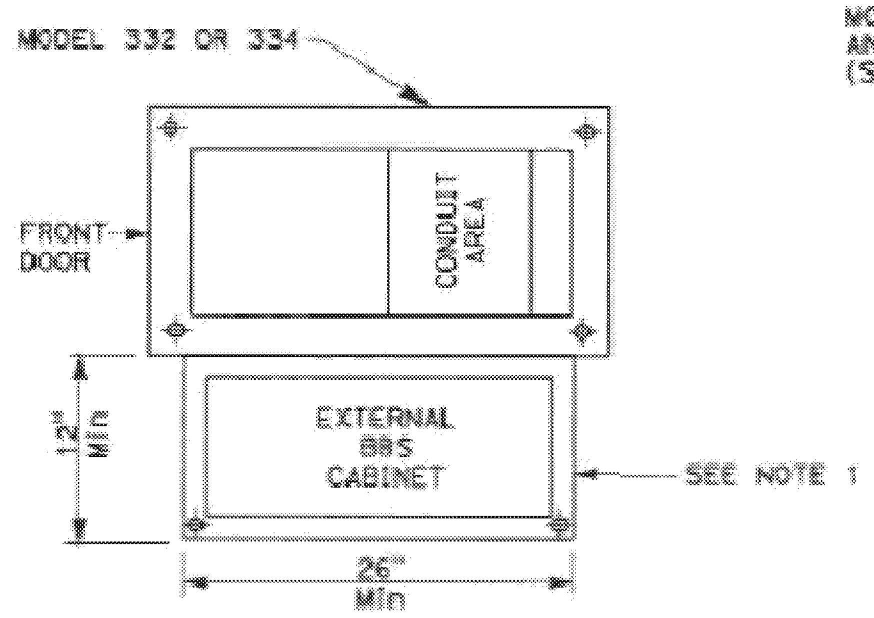
NOTE: (THIS SHEET ONLY)

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, ⅜"-16 X 1" BOLTS; TWO WASHERS PER BOLT, DESIGNED FOR ⅜" 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 ¾" 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)



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))

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

ELECTRICAL SYSTEMS
(BBS FOUNDATION DETAILS)

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER — CARMEN GERONIMO — No. 54289 — EXP. 6/30/16 — CIVIL — STATE OF CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
BBS FOUNDATION DETAILS

PLAN SCALE: NTS
PROFILE SCALE: VERTICAL / HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:
SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-401B
SHEET NO. 99 OF 215

ST-4696

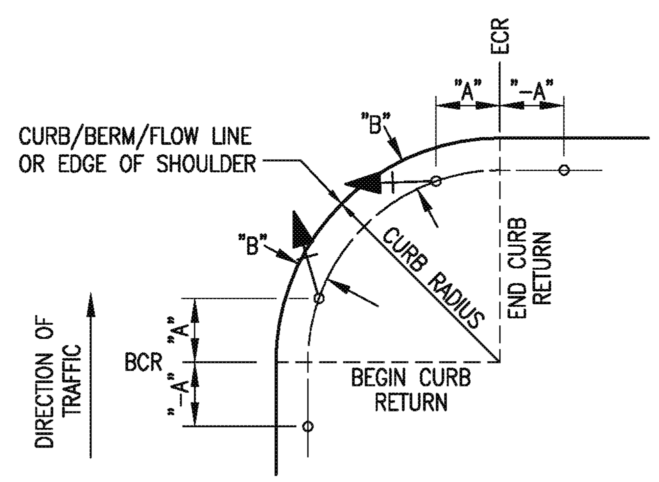
ST-4696

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

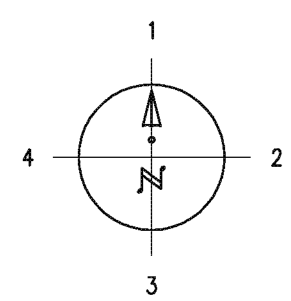
* PER CHAPTER 4D, CALIFORNIA 2014 MUTCD TABLE 4D-101(CA)

DETAIL"A"
NOT TO SCALE



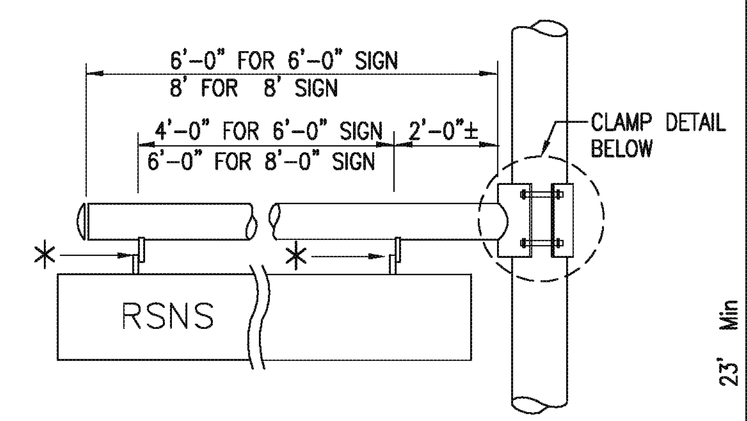
DIMENSIONED ON PLANS.
* TYPICAL SIGNAL STANDARD PLACEMENT
* FOR "A" AND "B" DIMENSIONS, SEE POLE SCHEDULE OR AS DIRECTED BY THE ENGINEER.

DETAIL"B"
NOT TO SCALE

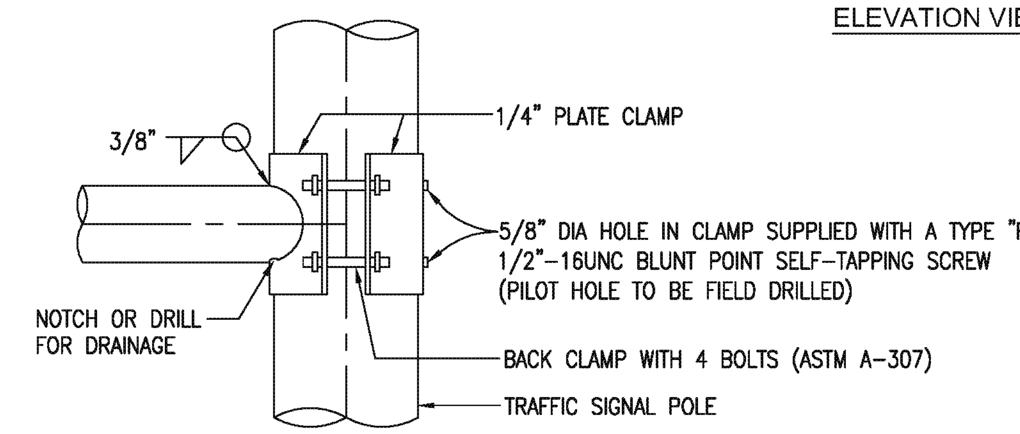


PUSH BUTTON LOCATION

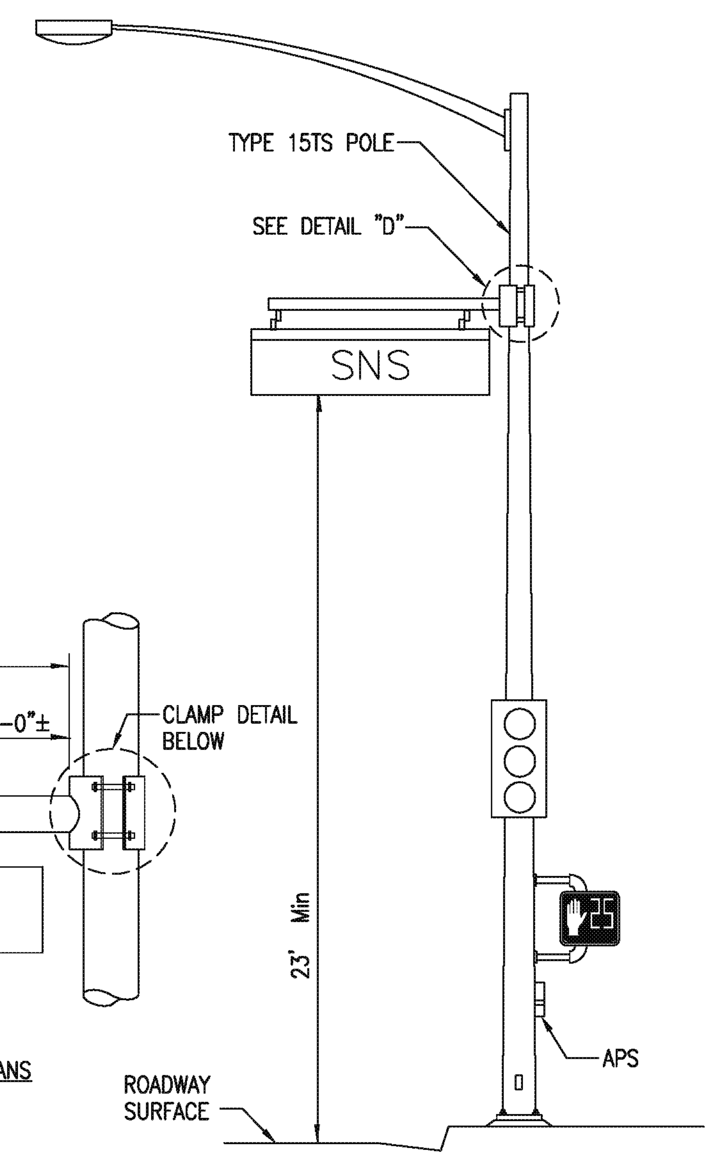
DETAIL"C"
NOT TO SCALE



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



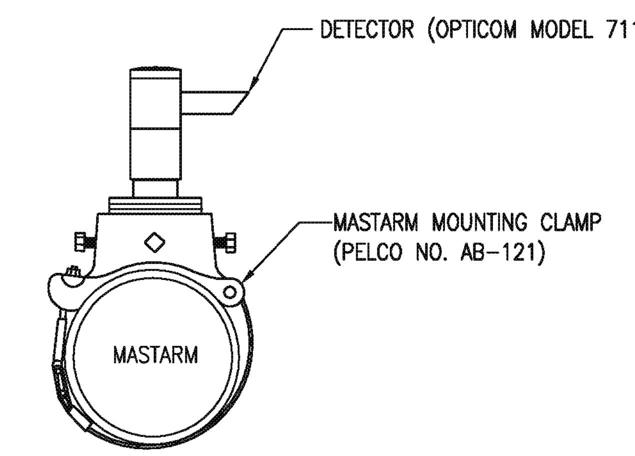
CLAMP DETAIL



ELEVATION VIEW

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.

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54957
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TYPICAL WI-FI DETECTION PLAN

PLAN SCALE: 1"=20'

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

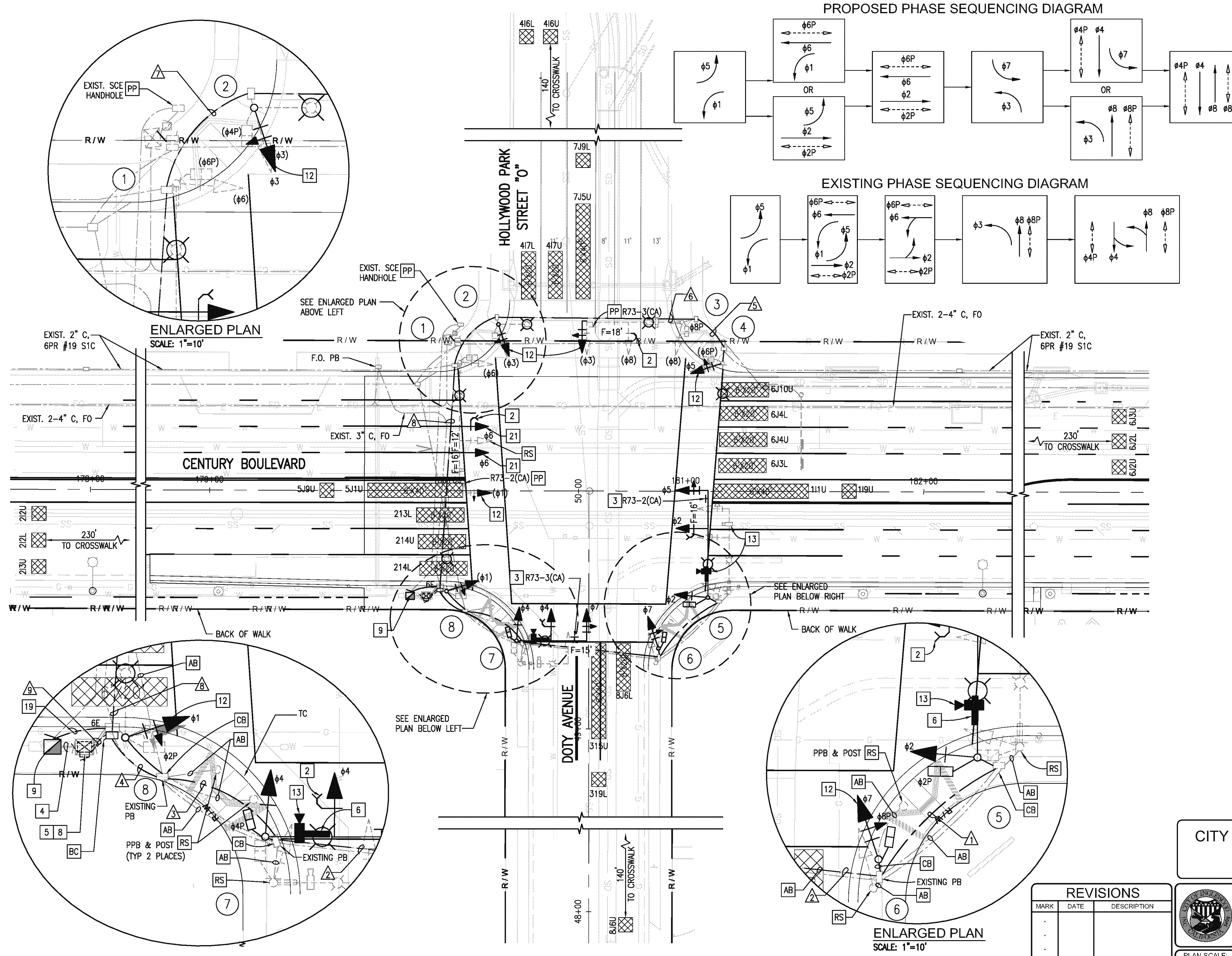
SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO.
TS-401C
SHEET NO.
100 OF 215

ST-4696

ST-4696

Drawing Name: W:\60160893_CBRR_Inglewood\CADD\Civil\Sheets\... Last Opened: May 14, 2015 - 4:24PM by:alvarazof



CONSTRUCTION NOTES

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 170 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.

8 EXISTING TYPE 170 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

9 SEE STREET LIGHTING PLANS E-402 – E-410 FOR NEW SERVICE PEDESTAL.

12 REMOVE FIVE SECTION SIGNAL INDICATION AND PERMISSIVE LEFT TURN PHASING. INSTALL 3 SECTION LEFT TURN INDICATION AND PROTECTED LEFT TURN PHASE.

13 RELOCATE VIDEO DETECTION CAMERA TO NEW POLE.

19 FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

21 FURNISH AND INSTALL SIGNAL HEAD ON EXISTING SIGNAL MAST ARM USING PELCO ASTRO BRACKETS.

AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

CB INSTALL CONDUIT INTO EXISTING PULL BOX

RS REMOVE AND SALVAGE EQUIPMENT.

PP PROTECT IN PLACE

NOTE: REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

SCALE: 1" = 20'

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - DOTY AVE

PLAN SCALE: 1"=20'
PROFILE SCALE: VERTICAL / HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
DATE 5/18/2015

PLAN NO. TS-402
SHEET NO. 101 OF 215

ST-4696

ST-4696

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE (1)	R.S.N.S. LEGEND	SIGNAL MOUNTING			PED PUSH BUTTON (3) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			VEHICLE M. A.	VEHICLE POLE	PED (2)	QUAD.	PHASE	ARROW	A	B	
①	29A–5–100(E)	35'(E)	55'(E)	15'(E)	196W	Doty	3–MAS	SV–1–T(E)	SP–1–T(E)	2(E)	4(E)	←(E)	EXISTING		REPLACE EXISTING 400W HPSV LUMINAIRE.
②	21TS(E)	35'(E)	–	15'(E)	196W	–	–	SV–1–T	SP–1–T(E)	3(E)	6(E)	→(E)	EXISTING		REPLACE EXISTING 400W HPSV LUMINAIRE.
③	26A–4–100(E)	35'(E)	40'(E)	15'(E)	196W	Century	MAS(E) MAS	SV–1–T(E)	SP–1–T(E)	3(E)	6(E)	←(E)	EXISTING		REPLACE EXISTING 400W HPSV LUMINAIRE.
④	21TS(E)	35'(E)	–	15'(E)	196W	–	–	SV–1–T	SP–1–T(E)	4(E)	8(E)	→	EXISTING		REPLACE EXISTING 400W HPSV LUMINAIRE.
⑤	26A–4–100	35'	45'	12'	196W	Doty (E)	2–MAS	SV–1–T	SP–1–T	4	8	←	10'	3'	REPLACE EXISTING 400W HPSV LUMINAIRE.
⑥	1–A	10'	–	–	–	–	–	TV–1–T	SP–1–T	1	2	→	9'	3'	REPLACE EXISTING 400W – HPSV LUMINAIRE.
⑦	19A–4–100	35'	30'	12'	196W	Century (E)	2–MAS	SV–1–T	SP–1–T	1	2	←	12'	4'	REPLACE EXISTING 400W HPSV LUMINAIRE
⑧	21TS(E)	35'	–	12'(E)	196W	–	–	SV–1–T	SP–1–T(E)	2(E)	4(E)	→(E)	0'(E)	2'(E)	REPLACE EXISTING 400W HPSV LUMINAIRE

ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
(E) = EXISTING. (R) = RELOCATED.

* SEE SHEET TS–401C
(1) EXISTING LUMINAIRE HEADS TO BE UPGRADED TO LED.
(2) LED COUNTDOWN PEDESTRIAN SIGNAL FACE.
(3) ACCESSIBLE PEDESTRIAN SIGNAL.

CONDUCTOR AND CONDUIT SCHEDULE

AWG SIZE OR CABLE TYPE	POLE & PHASES	CONDUIT LOCATION 1	2	3	4	5	6	7	8	9
12 CABLE 11–#14 1–#12 / (3–#14, PPB) 3 CABLE	① – ø1, ø6, ø6P, ø4PPB	–/–	–/–	–/–	–/–	–/–	–/–	–/–	1/1	1/1
	② – ø3, ø4P, ø6PPB	–/–	–/–	–/–	–/–	–/–	–/–	1/1	1/1	1/1
	③ – ø3, ø8, ø8P, ø6PPB	–/–	–/–	–/–	–/–	–/–	1/1	1/1	1/1	1/1
	④ – ø5, ø6P, ø8PPB	–/–	–/–	–/–	–/–	1/1	1/1	1/1	1/1	1/1
	⑤ – ø2, ø5, ø2P, ø8PPB	1/1	1/1	1/1	1/1	–/–	–/–	–/–	–/–	1/1
	⑥ – ø7, ø8P, ø2PPB	–/–	1/1	1/1	1/1	–/–	–/–	–/–	–/–	1/1
	⑦ – ø4, ø7, ø4P, ø2PPB	–/–	–/–	1/1	1/1	–/–	–/–	–/–	–/–	1/1
	⑧ – ø1, ø2P, ø4PPB	–/–	–/–	–/–	1/1	–/–	–/–	–/–	–/–	1/1
	TOTALS: 12 CONDUCTOR / 3 CONDUCTOR	1/1	2/2	3/3	4/4	1/1	2/2	3/3	4/4	8/8
#10	LUMINAIRES	2	2	2	2	2	2	2	2	–
VIDEO DETECTION CABLE		1	1	2	2	–	1	1	2	4
EV CABLE		1	1	2	2	–	1	1	2	4
6PR #19 SIC		–	–	–	–	1	1	1	2	2
72 SMFO CABLE		–	–	–	–	–	–	–	–	1
CONDUIT % FILL		13	20	18	22	10	22	16	25	41
CONDUIT SIZE		3"	3"	4"	4"	3"	3"	4"	4"	2–3" (E)

ALL CONDUCTORS CABLES AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
(E) = EXISTING

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54957
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

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
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - DOTY AVE

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

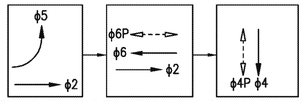
PLAN NO.
TS-402A
SHEET NO.
102 OF 215

Last Opened: May 14, 2015 - 4:29PM by:alvaradof

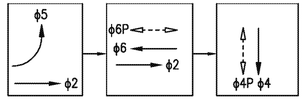
ST-4696

ST-4696

PROPOSED PHASE SEQUENCING DIAGRAM



EXISTING PHASE SEQUENCING DIAGRAM



CONSTRUCTION NOTES

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.

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.

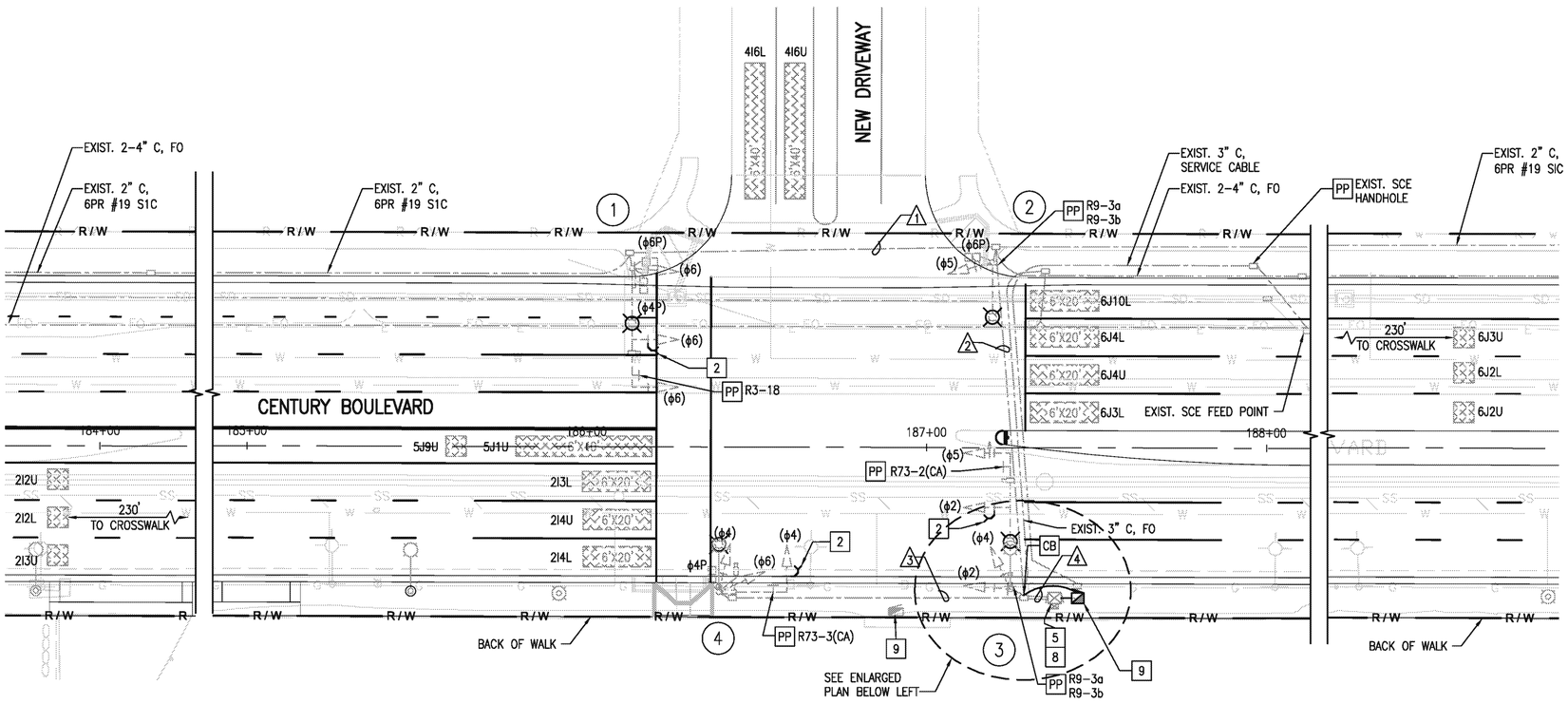
8 EXISTING TYPE 2070 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

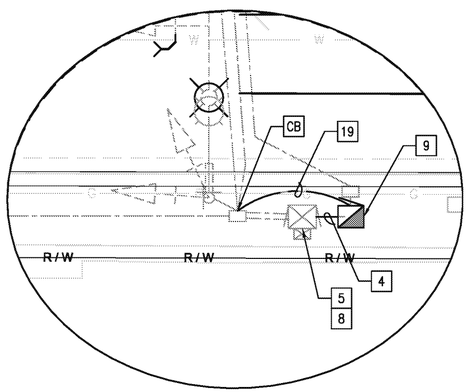
9 SEE STREET LIGHTING PLANS E-402 – E-410 FOR NEW SERVICE PEDESTAL, AND E-413 FOR STREET LIGHTING FOR TRAFFIC SIGNAL LUMINAIRES.

19 FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

PP PROTECT IN PLACE

NOTE: REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.





ENLARGED PLAN
SCALE: 1"=10'

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER CARMEN GEORGESCU No. 54989 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

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
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - NEW DRIVEWAY

PLAN SCALE: 1"=20'

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY/ APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-403
SHEET NO. 103 OF 215

ST-4696

Drawing Name: W:\6\516\693_CBRS_Inglewood\CAD\Civil\Sheet\Project 4 - Doty to Van Ness\11 Tech\Ts-Signal Plans\CB-TS-403.dwg
Last Dumped: May 14, 2015 - 4:31PM, by ulloaraul

ST-4696

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE (1)	R.S.N.S LEGEND	SIGNAL MOUNTING			PED PUSH BUTTON (3) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			VEHICLE M. A.	VEHICLE POLE	PED (2)	QUAD.	PHASE	ARROW	A	B	
①	24A–4–100	35'	35'	15'	196W(N)	Hollywood Park	2–MAS	SV–1–T	SP–1–T SP–1–T	1 / 2	4 / 6	← / ←	EXISTING		REPLACE EXISTING 250 HPSV LUMINAIRE
②	21	35'	–	15'	196W(N)	–	–	SV–1–T	SP–1–T	1	6	→	EXISTING		REPLACE EXISTING 250 HPSV LUMINAIRE
③	26A–4–100	35'	45'	15'	196W(N)	Hollywood Park	2–MAS	SV–2–T	–	–	–	–	EXISTING		REPLACE EXISTING 250 HPSV LUMINAIRE
④	17–3–100	30'	20'	12'	196W(N)	Century **	MAS	SV–1–T	SP–1–T	4	4	←	EXISTING		REPLACE EXISTING 250 HPSV LUMINAIRE

** = SINGLE FACE S.N.S. FACING NORTH.
ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE.
(N) = NEW EQUIPMENT

* SEE SHEET TS–401C
(1) EXISTING LUMINAIRE HEADS TO BE UPGRADED TO LED.
(2) LED COUNTDOWN PEDESTRIAN SIGNAL FACE.
(3) ACCESSIBLE PEDESTRIAN SIGNAL.

CONDUCTOR AND CONDUIT SCHEDULE

AWG SIZE OR CABLE TYPE	POLE & PHASES	CONDUIT LOCATION 1	CONDUIT LOCATION 2	CONDUIT LOCATION 3	CONDUIT LOCATION 4
12 CABLE: 11–#14, 1–#12 / 3 CABLE: (3–#14,PPB)	① ø6 / ø4PPB, ø6PPB	1/2	1/2		1/2
	② ø5 / ø6PPB		1/1		1/1
	③ ø2,ø4,ø5				2/–
	④ ø4,ø6 / ø4PPB			1/1	1/1
	TOTALS 12 CONDUCTOR / 3 CONDUCTOR	1/2	2/3	1/1	5/4
#10	LUMINAIRES	2	2	2	–
VIDEO DETECTION CABLE		1	1	1	3
EV CABLE		1	2	1	3
6PR #19 SIC		1	2	–	2
72 SMFO CABLE		–	–	–	1
CONDUIT % FILL		17	28	13	28
CONDUIT SIZE		3"	3"	3"	2–3"

ALL CONDUCTORS CABLES AND CONDUITS ARE EXISTING UNLESS NOTED OTHERWISE.

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

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
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - NEW DRIVEWAY

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

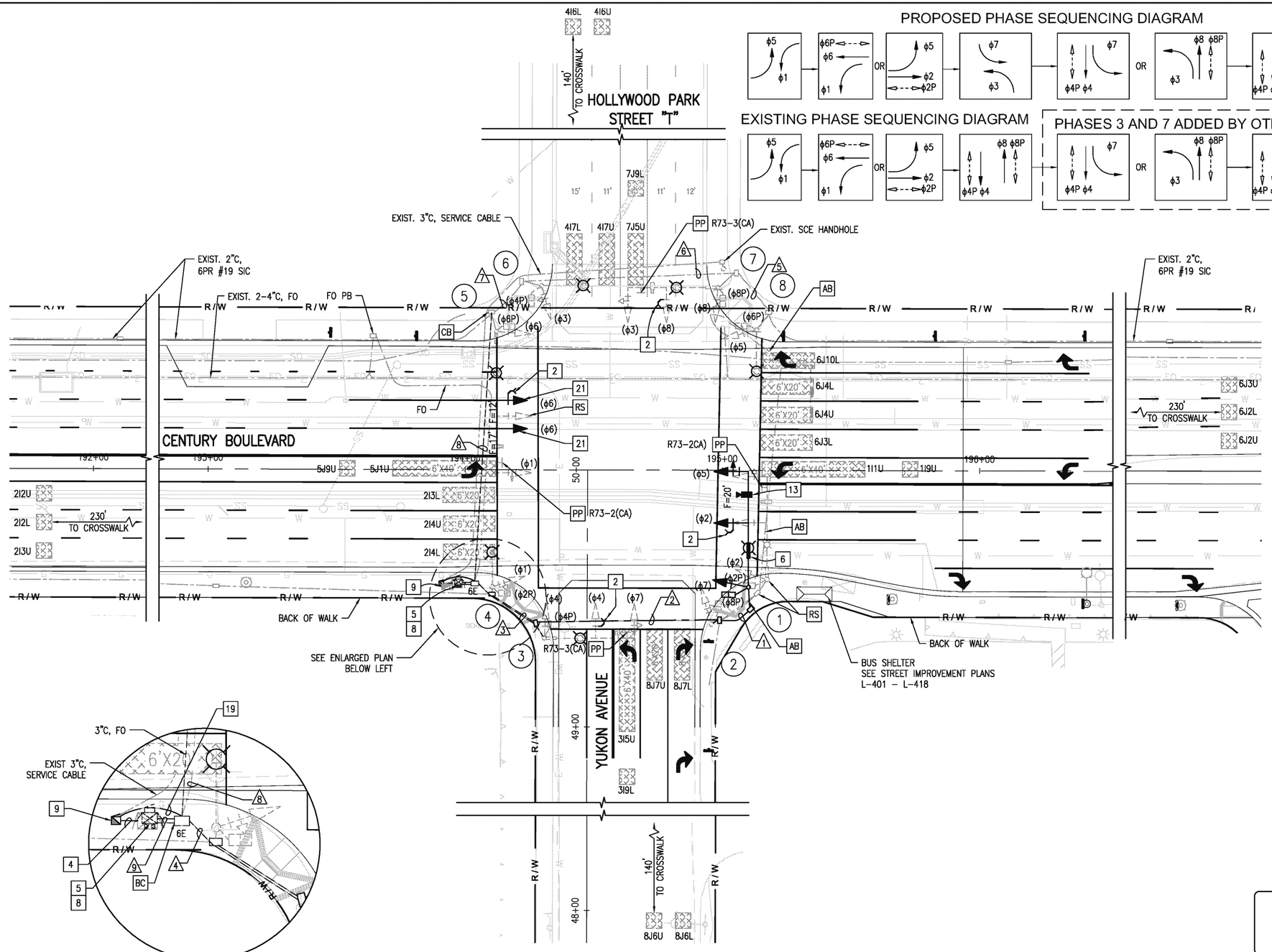
SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO.
TS-403A
SHEET NO.
104 OF 215

ST-4696

ST-4696

ST-4696



PROPOSED PHASE SEQUENCING DIAGRAM

EXISTING PHASE SEQUENCING DIAGRAM

PHASES 3 AND 7 ADDED BY OTHERS

CONSTRUCTION NOTES

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.

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 170 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.

8 EXISTING TYPE 170 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

9 SEE STREET LIGHTING PLANS E-402 – E-410 FOR NEW SERVICE PEDESTAL, AND E-413 FOR STREET LIGHTING FOR TRAFFIC SIGNAL LUMINAIRES.

13 RELOCATE VIDEO DETECTION CAMERA TO NEW POLE.

19 FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

21 FURNISH AND INSTALL SIGNAL HEAD ON EXISTING SIGNAL MAST ARM USING PELCO ASTRO BRACKETS.

AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

RS REMOVE AND SALVAGE EQUIPMENT.

PP PROTECT IN PLACE

NOTE: REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.

ENLARGED PLAN
SCALE: 1"=10'

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

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

REVISIONS		
MARK	DATE	DESCRIPTION

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER CARMEN GENOVA No. 58087 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - YUKON AVE

PLAN SCALE: 1"=20'
PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 87983 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-404
SHEET NO. 105 OF 215

Drawing Name: W:\6016809_CBRR_Inglewood\CAD\Civil\Sheet\Project 4 - Doty to Van Ness\111 Traffic Signal Plans\CB-TS-404.dwg
Last Opened: May 14, 2015 - 4:33PM by ckhansol

ST-4696

ST-4696

POLE AND EQUIPMENT SCHEDULE

No.	STANDARD				LED LUMINAIRE (1)	R.S.N.S. LEGEND	SIGNAL MOUNTING			PED PUSH BUTTONS (3) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
	Type	Height	Sig. M.a.	Lum. M.a.			VEHICLE M.A.	VEHICLE POLE	PED (2)	QUAD.	PHASE	ARROW	A	B	
(1)	26A–4–100(N)	35'(N)	45'(N)	12'(N)	196W (N)	Yukon	2 MAS(N)	SV–1–T(N)	SP–1–T(N)	4(N)	ø8(N)	←(N)	11.3'	3	RS POLE COMPLETE; RELOCATE VIDEO CAMERA TO NEW POLE
(2)	1–A	10'	–	–	–	–	–	TV–1–T	SP–1–T	1	ø2	→	EXISTING		
(3)	24A–4–100	35'	35'	15'	196W (N)	Century	2 MAS	SV–1–T	SP–1–T	1	ø2	←	EXISTING		RS 250W LUMINAIRE
(4)	TYPE 21	35'	–	12'	196W (N)	–	–	SV–1–T	SP–1–T	3	ø4	→	EXISTING		RS 250W LUMINAIRE
(5)	29A–5–100	35'	55'	15'	196W (N)	Yukon	2 MAS(N) MAS	SV–1–T	SP–1–T	3	ø4	←	EXISTING		RS 250W LUMINAIRE
(6)	TYPE 21	35'	–	15'	196W (N)	–	–	SV–1–T	SP–1–T	5	ø6	→	EXISTING		RS 250W LUMINAIRE
(7)	24A–4–100	35'	35'	15'	196W (N)	Century	MAS MAS	SV–1–T	SP–1–T	5	ø6	←	EXISTING		RS 250W LUMINAIRE
(8)	TYPE 21	35'	–	15'	196W (N)	–	–	SV–1–T	SP–1–T	7	ø8	→	EXISTING		RS 250W LUMINAIRE

ALL EQUIPMENT IS EXISTING UNLESS NOTED OTHERWISE.
(N) = NEW

* SEE SHEET TS–401C
(1) EXISTING LUMINAIRE HEADS TO BE UPGRADED TO LED.
(2) LED COUNTDOWN PEDESTRIAN SIGNAL FACE.
(3) ACCESSIBLE PEDESTRIAN SIGNAL.

CONDUCTOR AND CONDUIT SCHEDULE

AWG SIZE OR CABLE TYPE	POLE & PHASES	CONDUIT LOCATION 1	2	3	4	5	6	7	8	9
12 CABLE 11–#14 1–#12	(1) ø2,ø5,ø2P / ø8PPB	1/1	1/1	1/1	1/1					1/1
	(2) ø7,ø8P / ø2PPB		1/1	1/1	1/1					1/1
	(3) ø4,ø7,ø4P / ø2PPB			1/1	1/1					1/1
	(4) ø1,ø2P / ø4PPB				1/1					1/1
	(5) ø1,ø6,ø6P / ø4PPB								1/1	1/1
	(6) ø3,ø4P / ø6PPB							1/1	1/1	1/1
	(7) ø8,ø3,ø8P / ø6PPB						1/1	1/1	1/1	1/1
(3–#14,PPB) 3 CABLE	(8) ø5,ø6P / ø8PPB					1/1	1/1	1/1	1/1	1/1
	TOTALS 12 CONDUCTOR / 3 CONDUCTOR	1/1	2/2	3/3	4/4	1/1	2/2	3/3	4/4	8/8
#10	LUMINAIRES	2	2	2	2	2	2	2	2	–
VIDEO DETECTION CABLE		1	1	2	2	–	1	1	2	4
EV CABLE		1	1	2	2	–	1	1	2	4
6PR #19 SIC		–	–	–	–	1	1	1	2	2
72 SMFO CABLE		–	–	–	–	–	–	–	–	1
CONDUIT % FILL		13	20	31	22	10	22	28	25	41
CONDUIT SIZE		3"(E)	3"(E)	3"(E)	4"	3"(E)	3"(E)	3"(E)	4"	2–3" (E)

ALL CONDUCTORS CABLES AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
PHASES 3 AND 7 ADDED BY OTHERS.
(E) = EXISTING

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54957
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PLAN SCALE: NTS

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - YUKON AVE

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

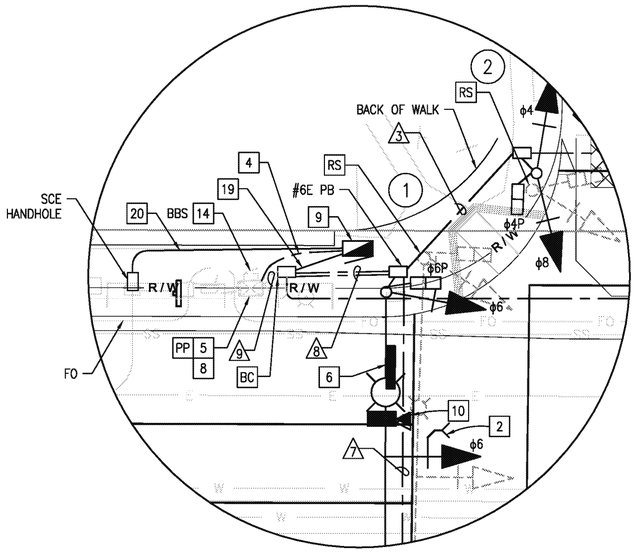
SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO.
TS-404A
SHEET NO.
106 OF 215

Drawing Name: W:\60160893_CBRR_Inglewood\CADD\Civil\Sheet\Project 4 - Doty to Van Ness\11 Traffic Signal Plans\CB-TS-404A.dwg
Last Opened: May 14, 2015 - 4:34PM by:alvaradof

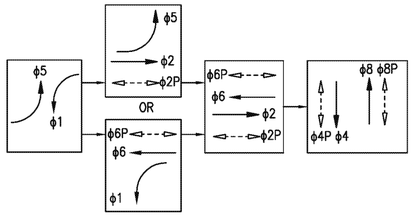
ST-4696

ST-4696

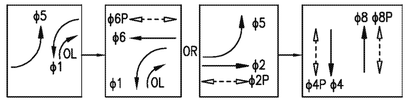


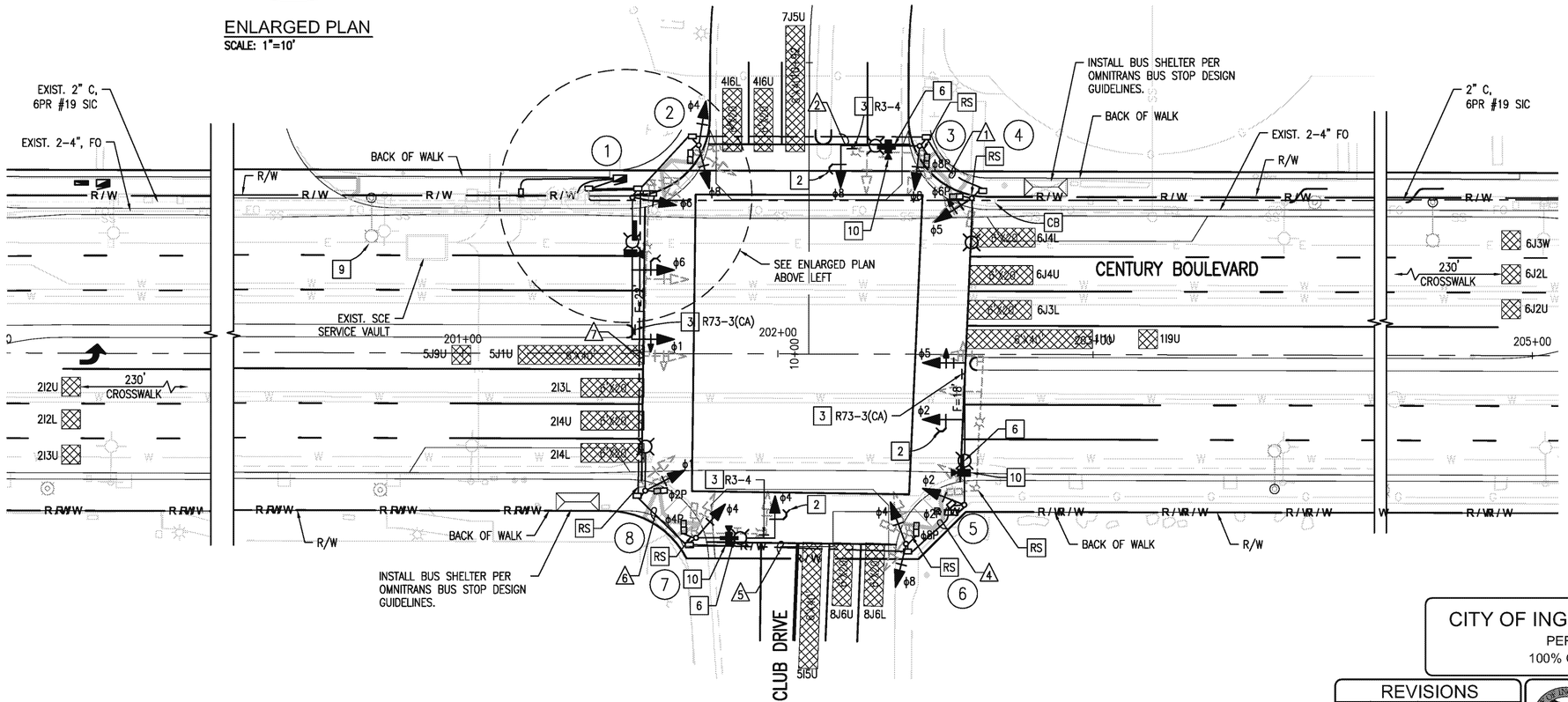
ENLARGED PLAN
SCALE: 1"=10'

PROPOSED PHASE SEQUENCING DIAGRAM



EXISTING PHASE SEQUENCING DIAGRAM





CONSTRUCTION NOTES

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 170 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.

8 EXISTING TYPE 170 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

9 SEE STREET LIGHTING PLANS E-402 – E-410 FOR NEW SERVICE PEDESTAL, AND E-413 FOR STREET LIGHTING FOR TRAFFIC SIGNAL LUMINAIRES.

10 INSTALL VIDEO DETECTION CAMERA PER SPECIFICATIONS.

14 FURNISH AND ATTACH "PIGGY BACK" BATTERY CABINET AND SYSTEM (BBS) TO EXISTING CONTROLLER CABINET.

19 FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

20 FURNISH AND INSTALL 3" CONDUIT BETWEEN SERVICE ENCLOSURE AND SERVICE POINT PER SCE REQUIREMENTS.

AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

BC INSTALL PULL BOX IN EXISTING CONDUIT RUN.

PP PROTECT IN PLACE.

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

RS REMOVE AND SALVAGE EQUIPMENT.

NOTES:
1. REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.
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

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

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

REVISIONS		
MARK	DATE	DESCRIPTION

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER CARMEN GENOVA No. 58067 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - CLUB DRIVE

PLAN SCALE: 1"=20'
PROFILE SCALE: VERTICAL / HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-405
SHEET NO. 107 OF 215

ST-4696

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE	R.S.N.S LEGEND	SIGNAL MOUNTING			PED PUSH BUTTONS (2) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			VEHICLE M. A.	VEHICLE POLE	PED (1)	QUAD.	PHASE	ARROW	A	B	
①	26-4-100	30'	45'	12'	196W	Club Dr	2-MAS	SV-1-T	SP-1-T	2	4	←	.5'	3'	–
②	1-A	10'	–	–	–	–	–	TV-2-T	SP-1-T	3	6	→	4.8'	3'	–
③	19-4-100	30'	25'	12'	196W	Century	MAS	SV-1-T	SP-1-T	3	6	←	4.8'	3'	–
④	15TS	30'	–	12'	196W	–	–	SV-1-T	SP-1-T	4	8	→	4.8'	3'	–
⑤	26-4-100	30'	45'	12'	196W	Club Dr	2-MAS	SV-1-T	SP-1-T	4	8	←	2.5'	6.5'	–
⑥	1-A	10'	–	–	–	–	–	TV-2-T	SP-1-T	1	2	→	4.8'	3'	–
⑦	19-4-100	30'	25'	12'	196W	Century	MAS	SV-1-T	SP-1-T	1	2	←	4.5'	3'	–
⑧	15TS	30'	–	12'	196W	–	–	SV-1-T	SP-1-T	2	4	→	4.8'	3'	–

ALL SIGNAL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

* SEE SHEET TS-401C
(1) LED COUNTDOWN 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	8	9
12 CABLE 11-#14 1-#12 / (3-#14, PPB) 3 CABLE	① - ø1, ø6, ø6P, ø4PPB	-/-	-/-	-/-	-/-	-/-	-/-	-/-	1/1	1/1
	② - ø4, ø8, ø4P, ø6PPB	-/-	-/-	1/1	-/-	-/-	-/-	-/-	1/1	1/1
	③ - ø8, ø8P, ø6PPB	-/-	1/1	1/1	-/-	-/-	-/-	-/-	1/1	1/1
	④ - ø5, ø6P, ø8PPB	1/1	1/1	1/1	-/-	-/-	-/-	-/-	1/1	1/1
	⑤ - ø2, ø5, ø2P, ø8PPB	-/-	-/-	-/-	1/1	1/1	1/1	1/1	1/1	1/1
	⑥ - ø4, ø8, ø8P, ø2PPB	-/-	-/-	-/-	-/-	1/1	1/1	1/1	1/1	1/1
	⑦ - ø4, ø4P, ø2PPB	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1	1/1
	⑧ - ø1, ø2P, ø4PPB	-/-	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1
	TOTALS: 12 CONDUCTOR / 3 CONDUCTOR	1/1	2/2	3/3	1/1	2/2	3/3	4/4	8/8	8/8
#10	LUMINAIRES	2	2	2	2	2	2	2	2	–
VIDEO DETECTION CABLE		–	1	1	1	1	2	2	4	4
EV CABLE		–	1	1	1	1	2	2	4	4
6 PR #19 SIC		–	–	–	–	–	–	–	–	2
72 SMFO CABLE		–	–	–	–	–	–	–	–	1
CONDUIT % FILL		8	20	26	13	20	18	22	21	40
CONDUIT SIZE		3"	3"	3"	3"	3"	4"	4"	2-4"	2-3" (E)

ALL CONDUCTORS CABLES AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
(E) = EXISTING

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54957
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - CLUB DRIVE

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL
HORIZONTAL

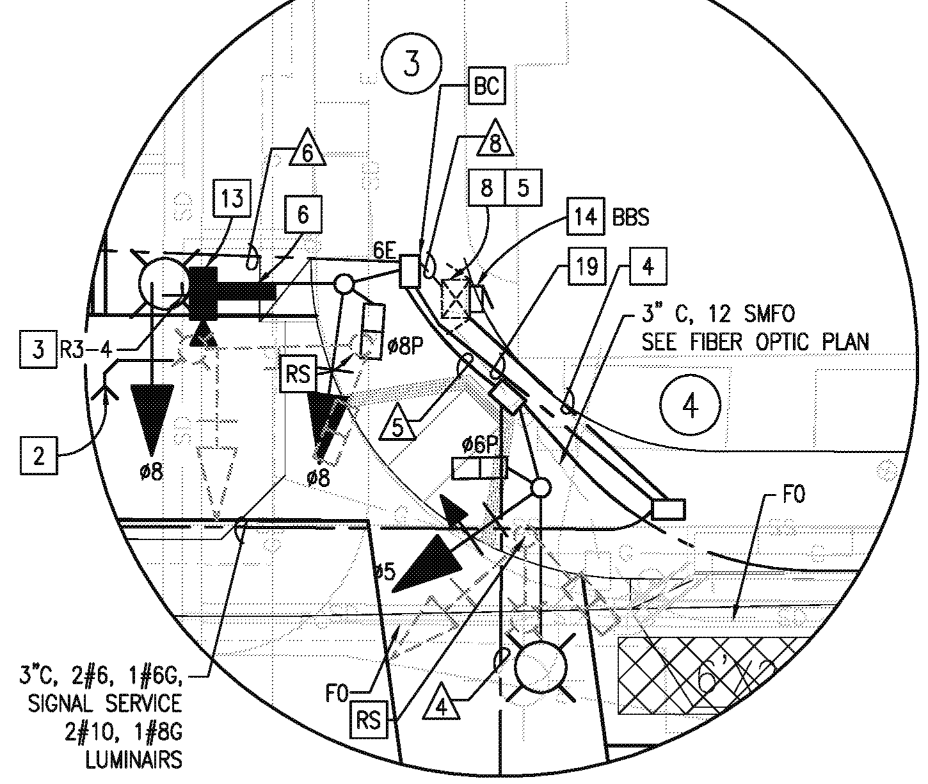
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-405A
SHEET NO. 108 OF 215

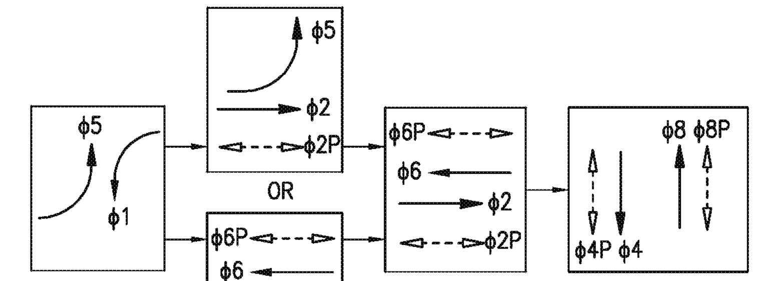
Drawing Name: W:\60160893_CBRR_Inglewood\CADD\CivilSheet\Project 4 - Doty to Van Ness
Last Opened: May 14, 2015 - 4:36PM by:alvaradof

ST-4696

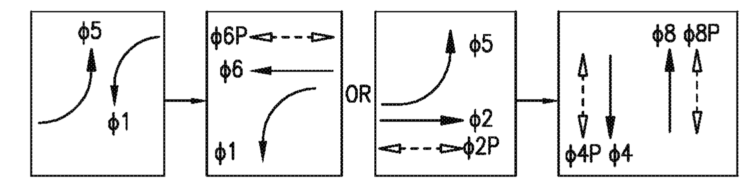


ENLARGED PLAN
SCALE: 1"=10'

PROPOSED PHASE SEQUENCING DIAGRAM



EXISTING PHASE SEQUENCING DIAGRAM



CONSTRUCTION NOTES

[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 170 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.

[8] EXISTING TYPE 170 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

[9] SEE STREET LIGHTING PLANS E-402 – E-410 FOR NEW SERVICE PEDESTAL.

[13] RELOCATE VIDEO DETECTION CAMERA TO NEW POLE.

[14] FURNISH AND ATTACH "PIGGY BACK" BATTERY CABINET AND SYSTEM (BBS) TO EXISTING CONTROLLER CABINET.

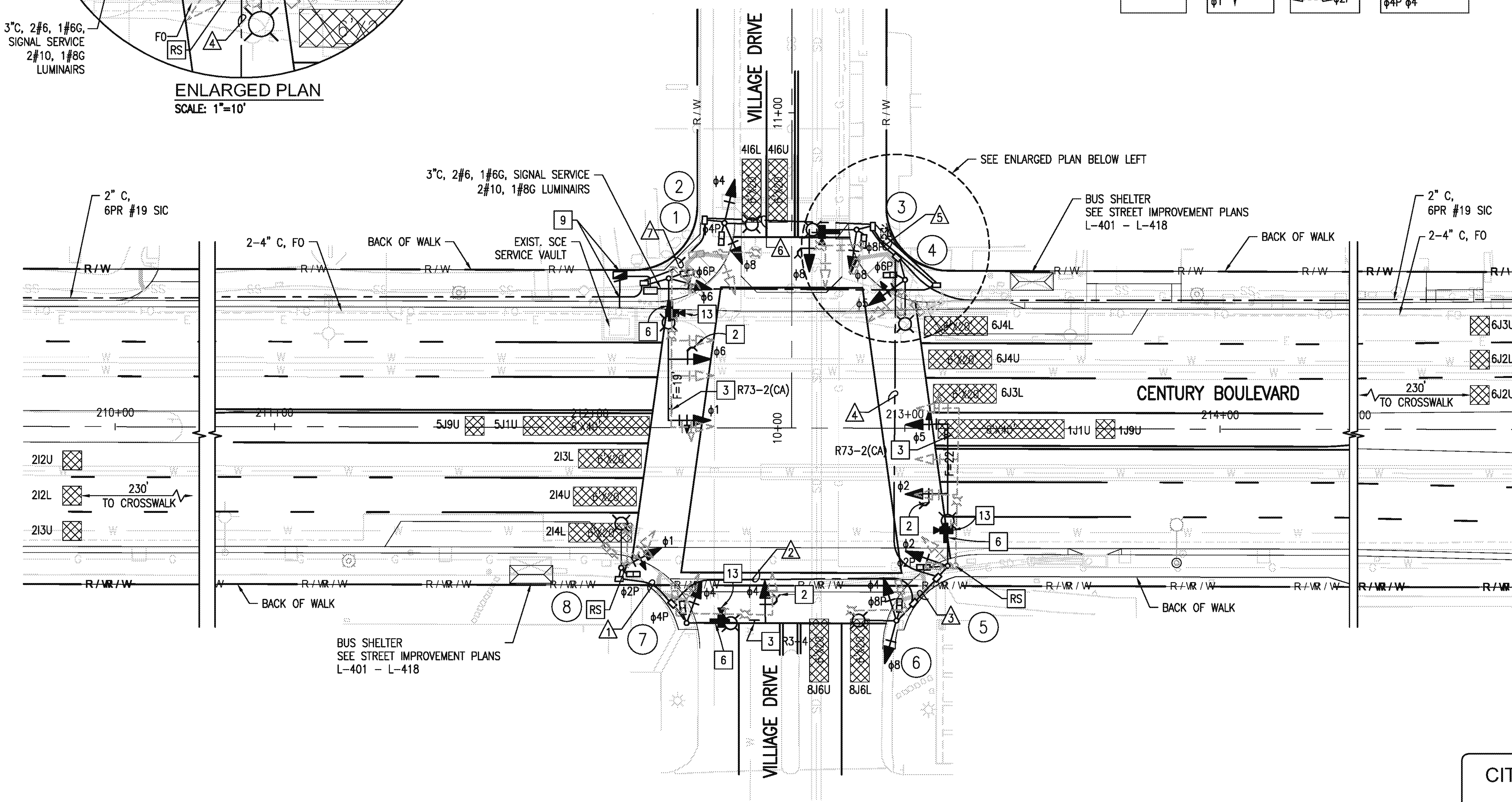
[19] FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

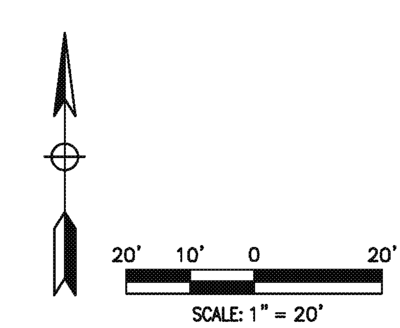
[BC] INSTALL PULL BOX IN EXISTING CONDUIT RUN.

[RS] REMOVE AND SALVAGE EQUIPMENT.

NOTES:

1. REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.
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





CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

REVISIONS		
MARK	DATE	DESCRIPTION

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENOUD
No. 54297
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - VILLAGE DRIVE

PLAN SCALE: 1"=20'

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO.
TS-406
SHEET NO.
109 OF 215

ST-4696

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE	R.S.N.S LEGEND	SIGNAL MOUNTING			PED PUSH BUTTONS (2) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			VEHICLE M. A.	VEHICLE POLE	PED (1)	QUAD.	PHASE	ARROW	A	B	
①	26-4-100	30'	45'	12'	196W	Village Dr	2-MAS	SV-1-T	SP-1-T	2	4	←	4'	7'	–
②	15TS	30'	–	10'	196W	–	–	SV-2-T	SP-1-T	3	6	→	0'	3'	–
③	17-3-100	30'	15'	12'	196W	Century	MAS	SV-1-T	SP-1-T	3	6	←	2'	5'	–
④	15TS	30'	–	12'	196W	–	–	SV-1-T	SP-1-T	4	8	→	7'	6'	–
⑤	26-4-100	30'	45'	12'	196W	Village Dr	2-MAS	SV-1-T	SP-1-T	4	8	←	9'	2'	–
⑥	15TS	30'	–	10'	196W	–	–	SV-2-T	SP-1-T	1	2	→	10'	3'	–
⑦	19-4-100	30'	25'	12'	196W	Century	MAS	SV-1-T	SP-1-T	1	2	←	8'	3'	–
⑧	15TS	30'	–	12'	196W	–	–	SV-1-T	SP-1-T	2	4	→	5'	3'	–

ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

* SEE SHEET TS-401C
(1) LED COUNTDOWN 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	8
12 CABLE 11-#14 1-#12 / (3-#14, PPB) 3 CABLE	① - ø1, ø6, ø6P, ø4PPB	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1
	② - ø4, ø8, ø4P, ø6PPB	-/-	-/-	-/-	-/-	-/-	1/1	-/-	1/1
	③ - ø8, ø8P, ø6PPB	-/-	-/-	-/-	-/-	-/-	-/-	-/-	1/1
	④ - ø5, ø6P, ø8PPB	-/-	-/-	-/-	-/-	1/1	-/-	-/-	1/1
	⑤ - ø2, ø5, ø2P, ø8PPB	-/-	-/-	-/-	1/1	1/1	-/-	-/-	1/1
	⑥ - ø4, ø8, ø8P, ø2PPB	-/-	-/-	1/1	1/1	1/1	-/-	-/-	1/1
	⑦ - ø4, ø4P, ø2PPB	-/-	1/1	1/1	1/1	1/1	-/-	-/-	1/1
	⑧ - ø1, ø2P, ø4PPB	1/1	1/1	1/1	1/1	1/1	-/-	-/-	1/1
	TOTALS: 12 CONDUCTOR / 3 CONDUCTOR	1/1	2/2	3/3	4/4	5/5	2/2	1/1	8/8
#10	LUMINAIRES	2	2	2	2	2	2	2	–
VIDEO DETECTION CABLE		–	1	1	2	2	1	1	4
EV CABLE		–	1	1	2	2	1	1	4
6 PR #19 SIC		–	–	–	–	1	1	1	2
12 SMFO CABLE		–	–	–	–	–	–	–	1
CONDUIT % FILL		8	20	26	22	26	22	16	40
CONDUIT SIZE		3"	3"	3"	4"	4"	3"	3"	2-3" (E)

ALL CONDUCTORS CABLES AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
(E) = EXISTING

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54987
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - VILLAGE DRIVE

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL
HORIZONTAL

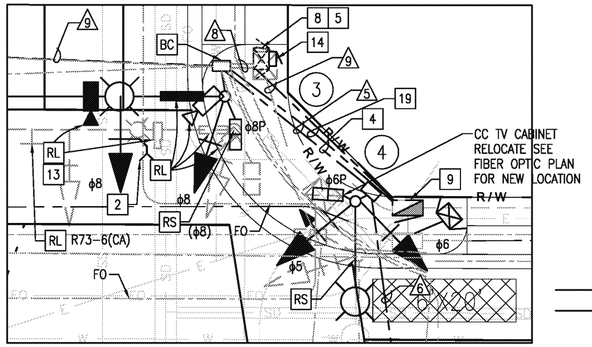
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-406A
SHEET NO. 110 OF 215

ST-4696

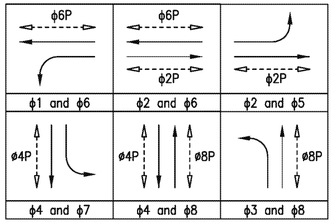
ST-4696



ENLARGED PLAN

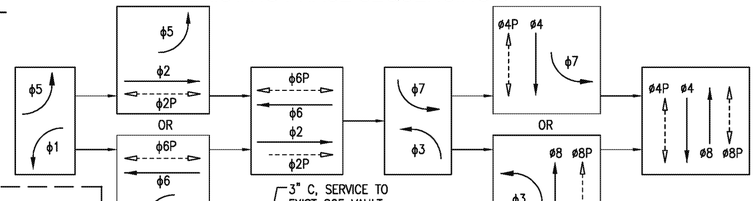
SCALE: 1"=10'

PROPOSED PHASE DIAGRAM



LEAD-LAG OPERATION

EXISTING PHASE SEQUENCING DIAGRAM



3" C, SERVICE TO EXIST SCE VAULT

CONSTRUCTION NOTES

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 170 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.

8 EXISTING TYPE 170 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

9 SEE STREET LIGHTING PLANS E-402 – E-410 FOR NEW SERVICE PEDESTAL, AND E-413 FOR STREET LIGHTING FOR TRAFFIC SIGNAL LUMINAIRES.

13 RELOCATE VIDEO DETECTION CAMERA TO NEW POLE.

14 FURNISH AND ATTACH "PIGGY BACK" BATTERY CABINET AND SYSTEM (BBS) TO EXISTING CONTROLLER CABINET.

19 FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

AB ABANDON. IF APPLIED TO CONDUIT, REMOVE CONDUCTORS.

RL REMOVE AND RELOCATE.

RS REMOVE AND SALVAGE EQUIPMENT.

PP PROTECT IN PLACE.

NOTES:

1. EXISTING TRAFFIC SIGNALS AND EQUIPMENT ON THE NORTH-WEST AND NORTH-EAST CORNERS (CENTURY AND CRENSHAW) SHALL REMAIN.
2. REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.
3. ALL EXISTING CONDUITS NOT SHOWN FOR REUSE SHALL BE ABANDONED.
4. ALL EXISTING PULLBOXES NOT SHOWN FOR REUSE SHALL BE REMOVED AND BECOME THE PROPERTY OF THE CONTRACTOR

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

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

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENOVESE
No. 54989
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS

MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - CRENSHAW BLVD

PLAN SCALE: 1"=20'

PROFILE SCALE: VERTICAL / HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-407
SHEET NO. 111 OF 215

ST-4696

ST-4696

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE	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 M. A.	VEHICLE POLE	PED (1)	QUAD.	PHASE	ARROW	A	B	
①	26-4-100	30'	45'	12'	196W	Crenshaw	2-MAS	SV-1-T	SP-1-T	1	4	←	6.7'	3.4'	–
②	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	3	6	→	3'	4.5'	–
③	26-4-100	30'	35'	12'	196W	Century	2-MAS	SV-1-T	SP-1-T	3	6	←	3'	3'	–
④	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	4	8	→	5'	5'	–
⑤	26-4-100	30'	40'	12'	196W	Crenshaw	2-MAS	SV-1-T	SP-1-T	4	8	←	13'	4.7'	–
⑥	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	2	2	→	8'	3.7'	–
⑦	26-4-100	30'	40'	12'	196W	Century	2-MAS	SV-1-T	SP-1-T	2	2	←	5'	3'	–
⑧	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	1	4	→	5'	3'	–

ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

* SEE SHEET TS-401C
(1) LED COUNTDOWN 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	8
12 CABLE 11-#14 1-#12 / (3-#14, PPB) 3 CABLE	① - ø1, ø6, ø6p, ø4PPB	-/-	-/-	1/1	1/1	-/-	-/-	-/-	1/1
	② - ø3, ø4, ø4P, ø6PPB	-/-	-/-	-/-	1/1	-/-	-/-	-/-	1/1
	③ - ø3, ø8, ø8P, ø6PPB	-/-	-/-	-/-	-/-	-/-	-/-	-/-	1/1
	④ - ø5, ø6, ø6P, ø8PPB	-/-	-/-	-/-	-/-	1/1	-/-	-/-	1/1
	⑤ - ø2, ø5, ø2P, ø8PPB	-/-	-/-	-/-	-/-	1/1	1/1	-/-	1/1
	⑥ - ø7, ø8, ø8P, ø2PPB	-/-	-/-	-/-	-/-	1/1	1/1	1/1	1/1
	⑦ - ø4, ø7, ø4P, ø4PPB	1/1	1/1	1/1	1/1	-/-	-/-	-/-	1/1
	⑧ - ø1, ø2, ø2P, ø4PPB	-/-	1/1	1/1	1/1	-/-	-/-	-/-	1/1
	TOTALS: 12 CONDUCTOR / 3 CONDUCTOR	1/1	2/2	3/3	4/4	3/3	2/2	1/1	8/8
#10	LUMINAIRES	2	2	2	2	2	2	2	–
VIDEO DETECTION CABLE		1	1	2	2	2	1	–	4
EV CABLE		1	1	2	2	2	1	–	4
6PR #19 SIC		–	–	–	–	–	–	–	2
12 SMFO CABLE		–	–	–	–	–	–	–	1
CONDUIT % FILL		13	20	18	22	18	20	8	40
CONDUIT SIZE		3"	3"	4"	4"	4"	3"	3"	2-3" (E)

ALL CONDUCTORS CABLES AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.
(E) = EXISTING

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54937
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

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
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - CRENSHAW BLVD

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

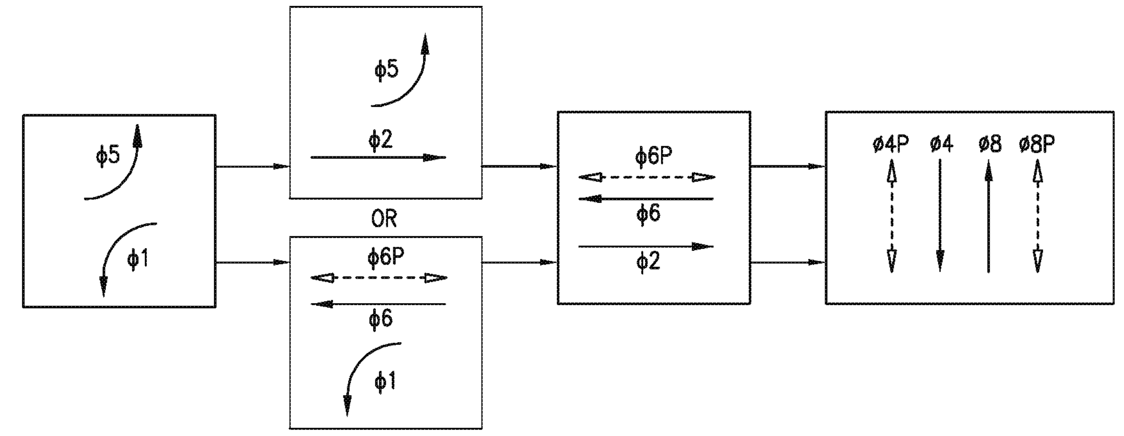
SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO.
TS-407A
SHEET NO.
112 OF 215

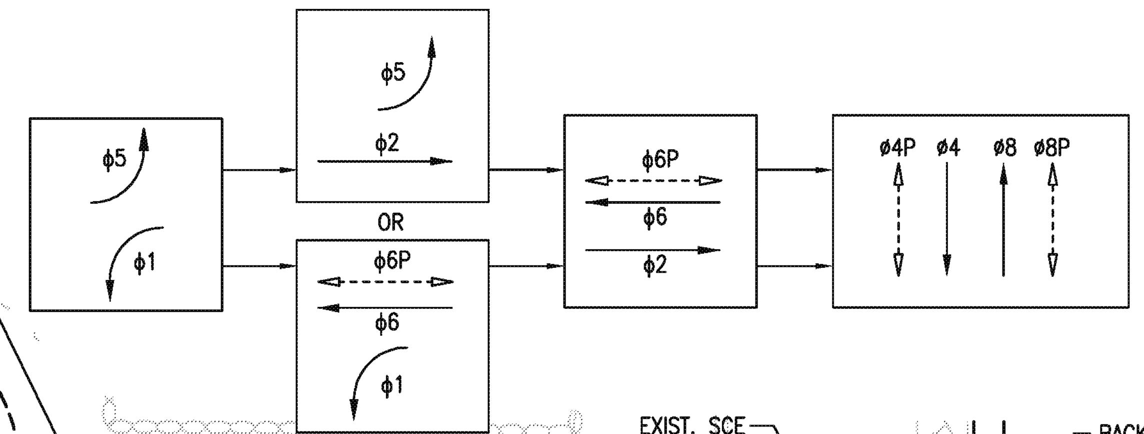
Drawing Name: W:\60160893_CBRR_Inglewood\CADD\Civil\Sheet\Project 4 - Doty to Van Ness\11 Traffic Signal Plans\CB-TS-407A.dwg
Last Opened: May 14, 2015 - 4:40PM by:alvaradof

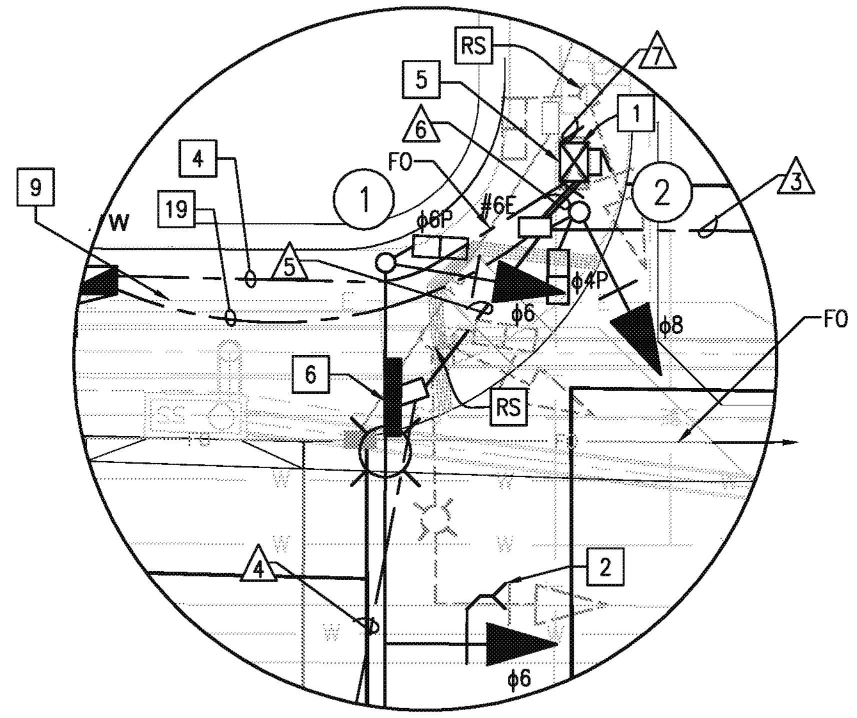
ST-4696
ST-4696
ST-4696

PROPOSED PHASE SEQUENCING DIAGRAM



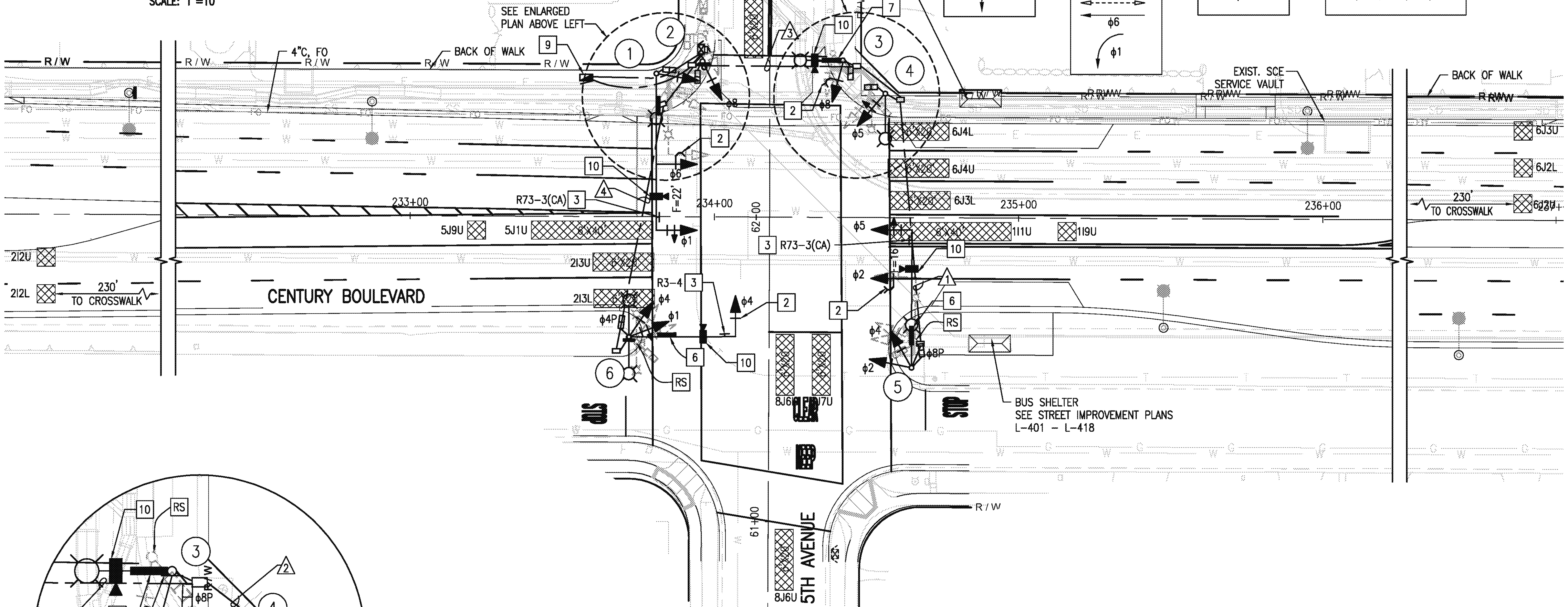
EXISTING PHASE SEQUENCING DIAGRAM

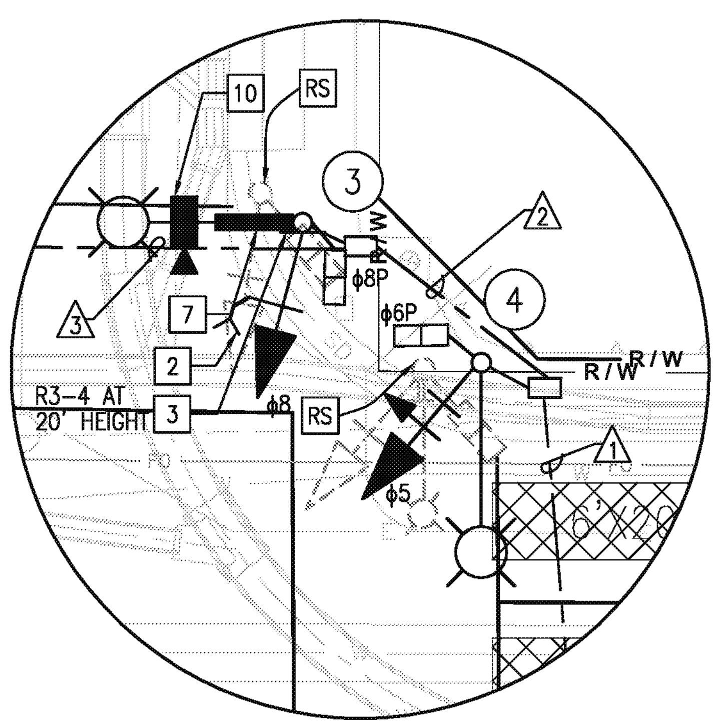




ENLARGED PLAN

SCALE: 1"=10'





ENLARGED PLAN

SCALE: 1"=10'

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 CONSIST 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 PER DETAIL "D" ON TS-401D.

9. SEE STREET LIGHTING PLANS E-402 - E-410 FOR NEW SERVICE PEDESTAL, AND E-413 FOR STREET LIGHTING FOR TRAFFIC SIGNAL LUMINAIRES.

10. INSTALL VIDEO DETECTION CAMERA PER SPECIFICATIONS.

19. FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

RS. REMOVE AND SALVAGE EQUIPMENT.

NOTES:

1. REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.
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

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

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

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54287
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - 5th AVENUE

PLAN SCALE: 1"=20'

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO. TS-408
SHEET NO. 113 OF 215

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE	S.N.S LEGEND	SIGNAL MOUNTING			PED PUSH BUTTONS (2) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
							VEHICLE		PED						
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			M. A.	POLE	(1)	QUAD.	PHASE	ARROW	A	B	
①	26-4-100	30'	45'	15'	196W	5th Av	2-MAS	SV-1-T	SP-1-T	2	4		4.6'	3'	–
②	1A	10'	–	–	–	–	–	TV-1-T	SP-1-T	3	6		7'	3'	–
③	15TS	30'	–	12'	196W	Century	–	SV-1-T	SP-1-T	3	6		5'	5'	S.N.S PER DETAIL "D" SHEET TS-401C
④	15TS	30'	–	12'	196W	–	–	SV-1-T	SP-1-T	4	8		5'	7'	–
⑤	26-4-100	30'	45'	15'	196W	5th Av	2-MAS	SV-2-T	SP-1-T	4	8		STA. 234+61	1.8'	–
⑥	24-4-100	30'	35'	2-10'**	2-196W**	Century	MAS	SV-2-T	SP-1-T	2	4	→	STA. 233+75	1.5'	–

NOTE: ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
**= LUMINAIRES TO BE IN CONFORMANCE WITH LUMINAIRE MAST ARM BASE PLATE DETAILS SHOWN ON CALTRANS STANDARD PLAN ES-6D.
THE LUMINAIRE MAST ARMS TO BE A 90° TO SMA.

* SEE SHEET TS-401C
(1) LED COUNTDOWN 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 - ø1, ø6, ø6P, ø4PPB	-/-	-/-	-/-	-/-	1/1	1/1	-/-
	② - ø8, ø4P, ø6PPB	-/-	-/-	-/-	-/-	-/-	1/1	-/-
	③ - ø8, ø8P, ø6PPB	-/-	-/-	1/1	-/-	-/-	1/1	-/-
	④ - ø5, ø6P, ø8PPB	-/-	1/1	1/1	-/-	-/-	1/1	-/-
	⑤ - ø2, ø4, ø5, ø8P, ø8PPB	2/1	2/1	2/1	-/-	-/-	2/1	-/-
	⑥ - ø1, ø4, ø4P, ø4PPB	-/-	-/-	-/-	1/1	1/1	1/1	-/-
	TOTALS: 12 CONDUCTOR / 3 CONDUCTOR	2/1	3/2	4/3	1/1	2/2	7/6	-/-
#10	LUMINAIRES	2	2	2	2	2	–	–
VIDEO DETECTION CABLE		1	1	2	1	2	4	–
EV CABLE		1	1	1	1	2	3	–
12 SMFO CABLE		–	–	–	–	–	–	1
CONDUIT % FILL		18	24	20	13	25	18	–
CONDUIT SIZE		3"	3"	4"	3"	3"	2-4"	3"*

ALL CONDUCTORS CABLES AND CONDUITS ARE NEW UNLESS NOTED OTHERWISE.

* SEE FIBEROPTIC PLANS FOR CONDUIT SIZE, FO CABLE LOCATION.

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54957
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
100% CITY OF INGLEWOOD

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - 5th AVENUE

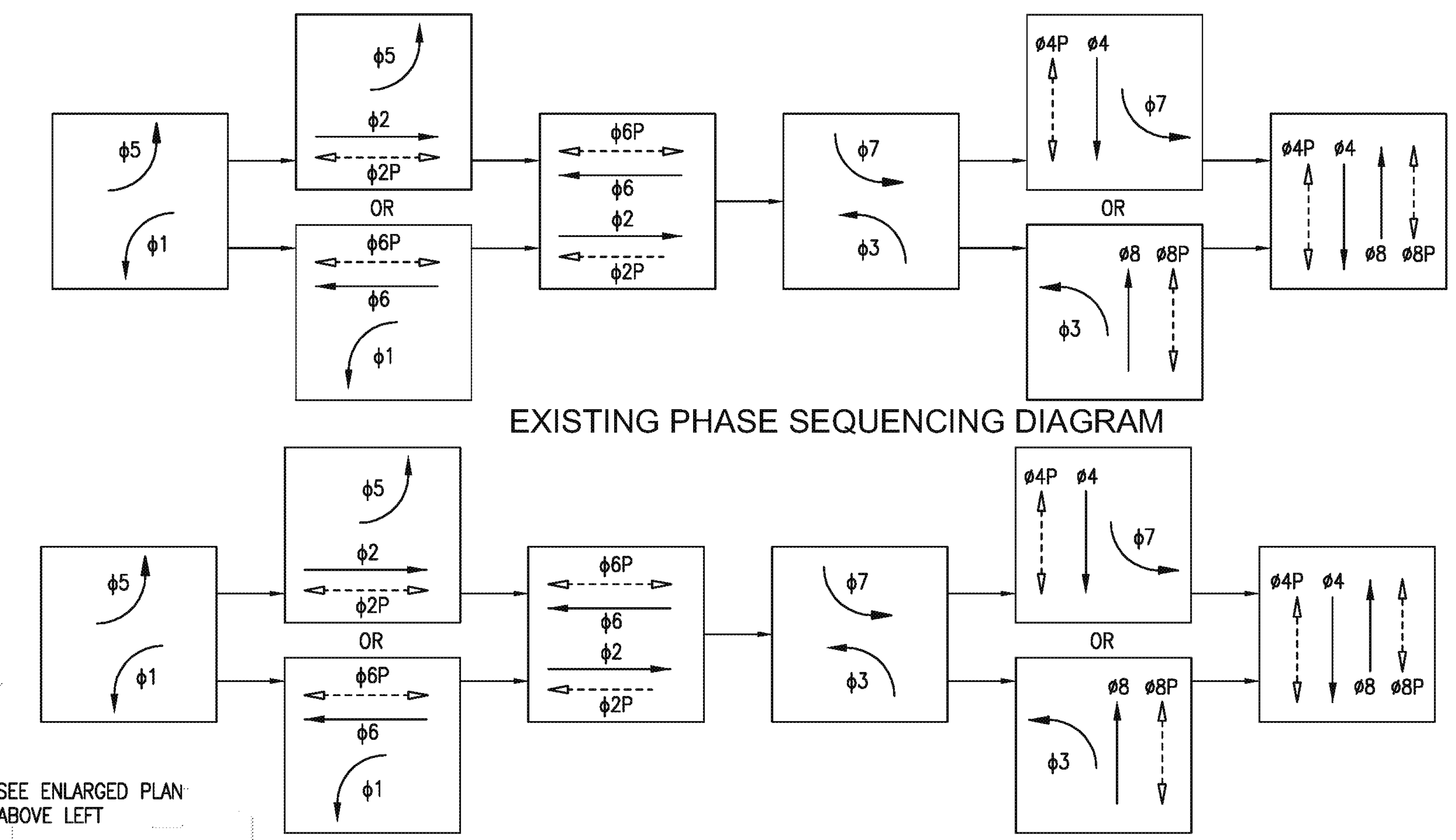
PLAN SCALE: NTS

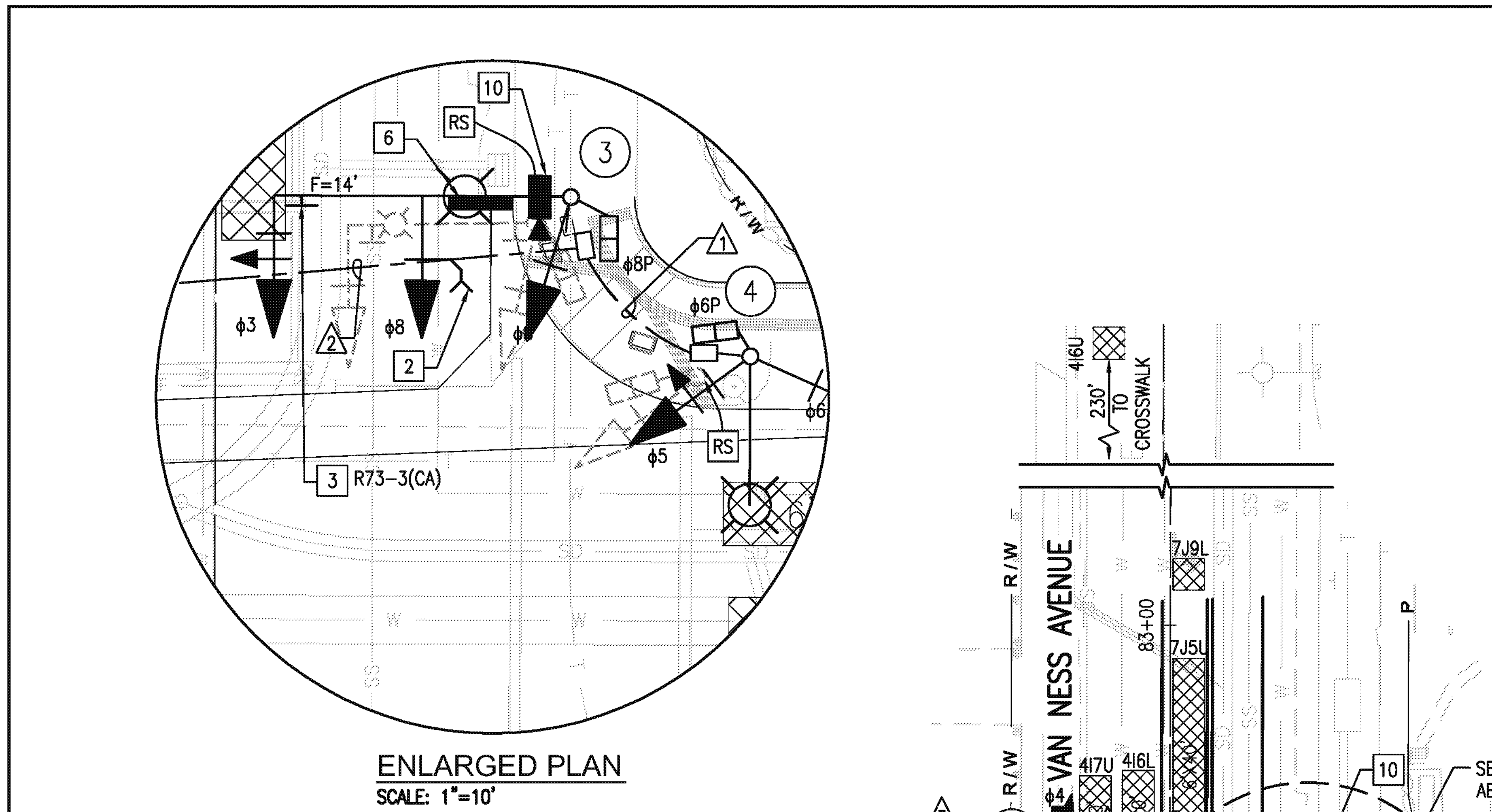
PROFILE SCALE: VERTICAL
HORIZONTAL

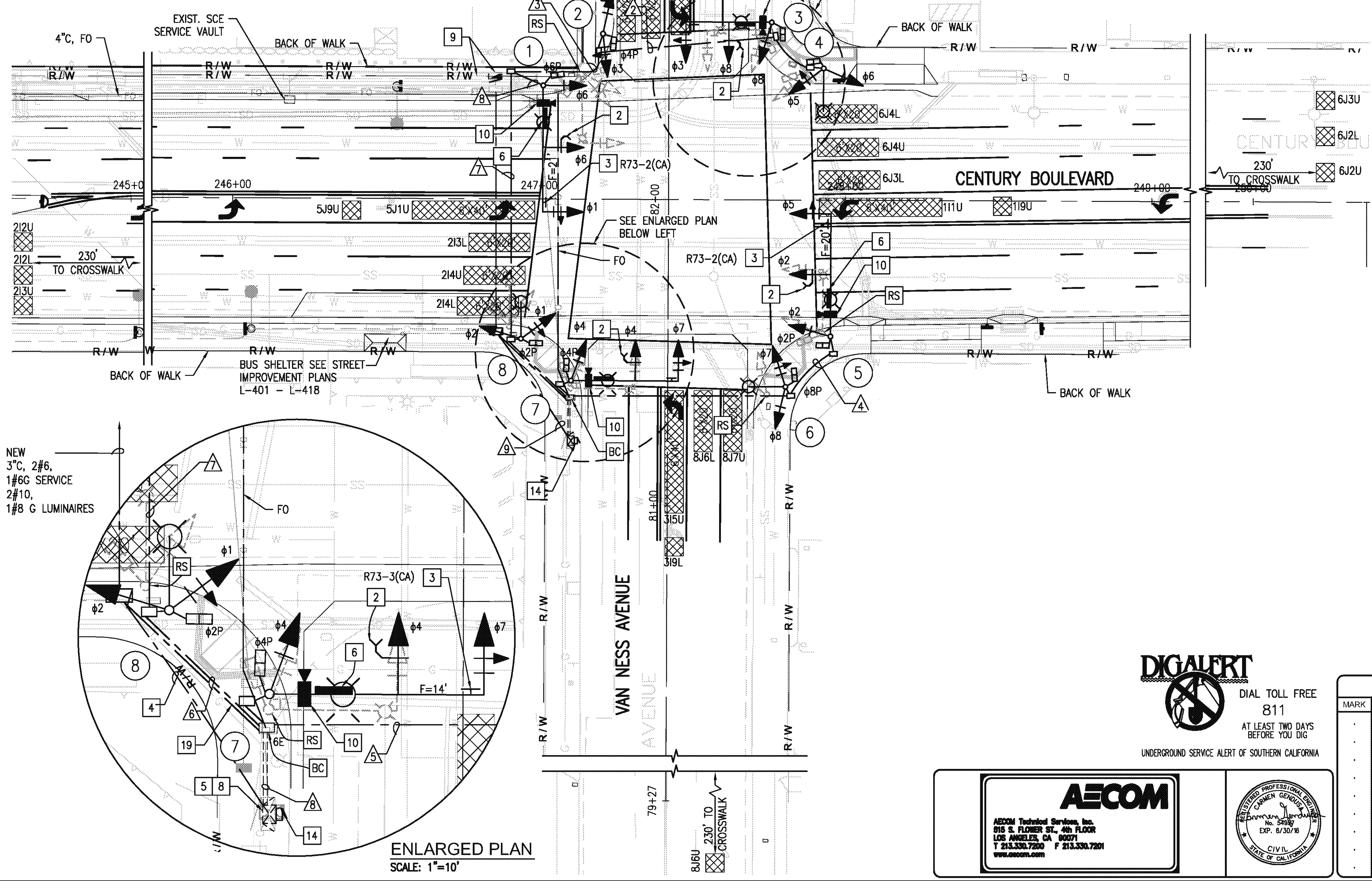
DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015 DATE

PLAN NO. TS-408A
SHEET NO. 114 OF 215







CONSTRUCTION NOTES

[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 170 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.

[8] EXISTING TYPE 170 CONTROLLER ASSEMBLY, 332 CABINET AND CONTENTS SHALL REMAIN. MODIFY AS NECESSARY FOR VEHICLE VIDEO DETECTION, FIBER OPTIC COMMUNICATION, AND SIGNAL INTERCONNECT TO PROVIDE INTENDED OPERATION, INCLUDING BATTERY BACKUP SYSTEM (BBS). THE BBS EQUIPMENT, INCLUDING THE BATTERIES, SHALL BE ATTACHED TO THE EXISTING 332 CABINET. BBS CABINET SHALL CONTAIN UPS SYSTEM AND BATTERIES, HOOK-UP, AND SWITCH. USE CALTRANS APPROVED VENDOR LIST.

[9] SEE STREET LIGHTING PLANS E-402 - E-410 FOR NEW SERVICE PEDESTAL.

[10] INSTALL VIDEO DETECTION CAMERA PER SPECIFICATIONS.

[14] FURNISH AND ATTACH "PIGGY BACK" BATTERY CABINET AND SYSTEM (BBS) TO EXISTING CONTROLLER CABINET.

[19] FURNISH AND INSTALL 2" CONDUIT WITH 2#10, LUMINAIRE.

[BC] INSTALL PULL BOX IN EXISTING CONDUIT RUN.

[RS] REMOVE AND SALVAGE EQUIPMENT.

NOTES:

1. REFER TO STREET LIGHTING PLANS FOR COMMON TRENCH AND DETAIL K ON PLAN NO. TS-401A.
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

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
50% CITY OF INGLEWOOD
25% CITY OF LOS ANGELES
25% COUNTY OF LOS ANGELES

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

DIGALERT
DIAL TOLL FREE 811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

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

REGISTERED PROFESSIONAL ENGINEER CARMEN GENDUSA No. 54997 EXP. 6/30/16 CIVIL STATE OF CALIFORNIA

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - VAN NESS AVENUE

PLAN SCALE: 1"=20'
PROFILE SCALE: VERTICAL HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
DATE 5/18/2015

PLAN NO. TS-409
SHEET NO. 115 OF 215

ST-4696

POLE AND EQUIPMENT SCHEDULE

NO.	STANDARD				LED LUMINAIRE	R.S.N.S LEGEND	SIGNAL MOUNTING			PED PUSHING BUTTONS (2) SEE DETAIL "C"*			POLE LOCATION SEE DETAIL "B"*		REMARKS
	TYPE	HEIGHT	SIGNAL M. A.	LUM. M. A.			VEHICLE M. A.	VEHICLE POLE	PED (1)	QUAD.	PHASE	ARROW	A	B	
①	26-4-100	30'	40'	12'	196W	Van Ness	2-MAS	SV-1-T	SP-1-T	2	4	←	2'	3'	–
②	1A	10'	–	–	–	–	–	TV-2-T	SP-1-T	3	6	→	5'	3'	–
③	19-4-100	30'	30'	12'	196W	Century	2-MAS	SV-1-T	SP-1-T	3	6	←	2'	5'	–
④	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	4	8	→	2.5'	5'	–
⑤	26-4-100	30'	40'	12'	196W	Van Ness	2-MAS	SV-1-T	SP-1-T	4	8	←	4.5'	3'	–
⑥	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	1	2	→	10'	4'	–
⑦	24-4-100	30'	35'	12'	196W	Century	2-MAS	SV-1-T	SP-1-T	1	2	←	5'	3'	–
⑧	15TS	30'	–	12'	196W	–	–	SV-2-T	SP-1-T	2	4	→	5'	3'	–

ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.

* SEE SHEET TS-401C
(1) LED COUNTDOWN 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	8
12 CABLE 11-#14 1-#12 / 3 CABLE (3-#14, PPB)	① - ø1, ø6, ø6P, ø4PPB	-/-	-/-	-/-	-/-	-/-	1/1	1/1	1/1
	② - ø3, ø4, ø4P, ø6PPB	-/-	-/-	1/1	-/-	-/-	1/1	1/1	1/1
	③ - ø3, ø8, ø8P, ø6PPB	-/-	1/1	1/1	-/-	-/-	1/1	1/1	1/1
	④ - ø5, ø6, ø6P, ø8PPB	1/1	1/1	1/1	-/-	-/-	1/1	1/1	1/1
	⑤ - ø2, ø5, ø2P, ø8PPB	-/-	-/-	-/-	1/1	1/1	-/-	-/-	1/1
	⑥ - ø7, ø8, ø8P, ø2PPB	-/-	-/-	-/-	-/-	1/1	-/-	-/-	1/1
	⑦ - ø4, ø7, ø4P, ø2PPB	-/-	-/-	-/-	-/-	-/-	-/-	-/-	1/1
	⑧ - ø1, ø2, ø2P, ø4PPB	-/-	-/-	-/-	-/-	-/-	1/1	-/-	1/1
	TOTALS: 12 CONDUCTOR / 3 CONDUCTOR	1/1	2/2	3/3	1/1	2/2	5/5	4/4	8/8
#10	LUMINAIRES	2	2	2	2	2	2	2	–
VIDEO DETECTION CABLE		–	1	1	1	1	2	2	4
EV CABLE		–	1	1	1	1	2	2	4
12 SMFO CABLE		–	–	–	–	–	–	–	1
CONDUIT % FILL		8	20	26	13	20	24	22	38
CONDUIT SIZE		3"	3"	3"	3"	3"	4"	4"	2-3" (E)

ALL CONDUCTORS AND CABLES ARE NEW UNLESS NOTED OTHERWISE.
(E) = EXISTING

DIGALERT
DIAL TOLL FREE
811
AT LEAST TWO DAYS BEFORE YOU DIG
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

AECOM
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

REGISTERED PROFESSIONAL ENGINEER
CARMEN GENDUSA
No. 54957
EXP. 6/30/16
CIVIL
STATE OF CALIFORNIA

REVISIONS		
MARK	DATE	DESCRIPTION

CITY OF INGLEWOOD MAINTAINED
PERCENTAGE SHARE
50% CITY OF INGLEWOOD
25% CITY OF LOS ANGELES
25% COUNTY OF LOS ANGELES

CITY OF INGLEWOOD, CALIFORNIA
PUBLIC WORKS DEPARTMENT

PROJECT TITLE:
PLANS FOR IMPROVEMENT OF
CENTURY BOULEVARD
DOTY AVE TO VAN NESS AVE
TRAFFIC SIGNAL PLANS - VAN NESS AVENUE

PLAN SCALE: NTS

PROFILE SCALE: VERTICAL
HORIZONTAL

DESIGNED BY:
DRAWN BY:
CHECKED BY:

SUBMITTED BY / APPROVED BY:
VANESSA MUNOZ, RCE 67583 / CONSULTANT TRAFFIC ENGINEER
5/18/2015
DATE

PLAN NO.
TS-409A
SHEET NO.
116 OF 215

ST-4696