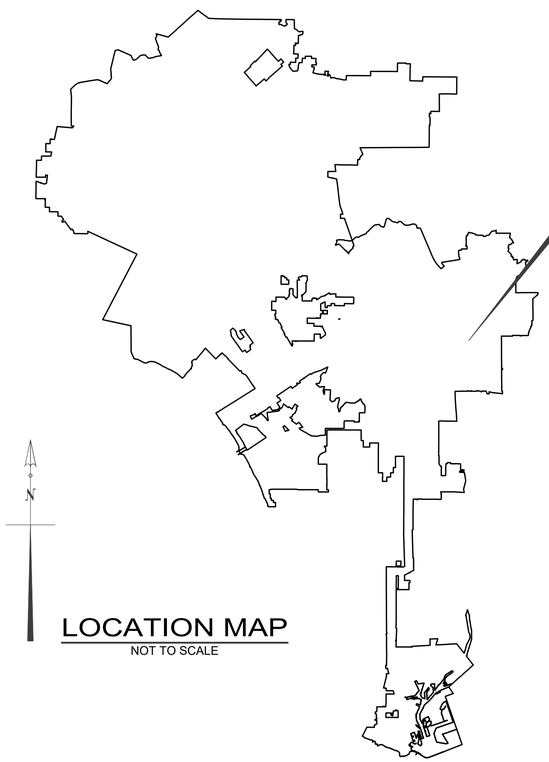
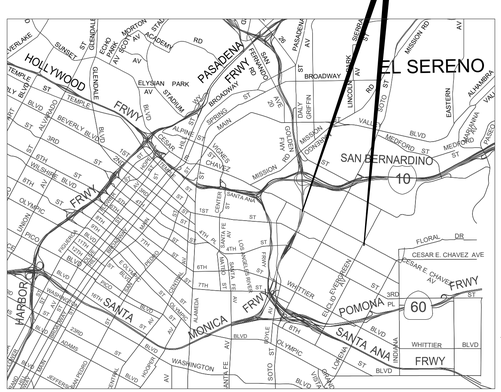
CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

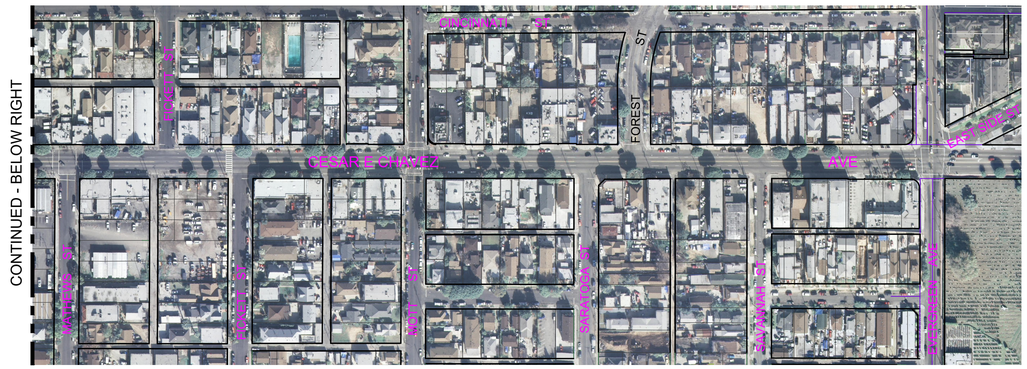
BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA STREET TO EVERGREEN AVENUE



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



SHEET INDEX

SHEET NOs.	DESCRIPTION
1	PROJECT COVER SHEET
2 TO 4	GENERAL NOTES, INDEX, KEY MAP
11 TO 27	CIVIL PLANS
28 TO 35	TRAFFIC SIGNAL AND STRIPING
36 TO 40	STREET LIGHTING

PROJECT TEAM

PROJECT MANAGEMENT: **STREET IMPROVEMENT DIVISION**

ARSEN VOSKERCHYAN, P.E.
DIVISION ENGINEER

GEORGE HUANG, P.E.
SENIOR CIVIL ENGINEER

AMY BI, P.E.
PROJECT MANAGER

MARIANNA HEMPEN
PROJECT ENGINEER

URIEL JIMENEZ
REAL ESTATE GROUP

BID AND AWARD: **PROJECT AWARD AND CONTROL DIVISION**

REY SISON, P.E.
INTERIM DIVISION MANAGER

GEOTECHNICAL: **GEOTECHNICAL ENGINEERING GROUP**

PATRICK SCHMIDT, G.E.
DIVISION MANAGER

SURVEY: **SURVEY DIVISION**

WILLIAM KNIGHT, L.S.
CHIEF SURVEYOR

CONSTRUCTION MANAGEMENT: **CONSTRUCTION MANAGEMENT DIVISION**

RICHARD LOUIE, P.E., CCM
DIVISION MANAGER

INSPECTION: **BUREAU OF CONTRACT ADMINISTRATION**

JOHN L. REAMER JR.
INSPECTOR OF PUBLIC WORKS

TRAFFIC SIGNALS AND STRIPING: **LOS ANGELES DEPARTMENT OF TRANSPORTATION**

LAURA RUBIO-CORNEJO
GENERAL MANAGER

DIANE OVERLAND, P.E.
TRANSPORTATION ENGINEER

STREET LIGHTING: **BUREAU OF STREET LIGHTING**

MIGUEL SANGALANG
EXECUTIVE DIRECTOR

SANDY TRUONG, P.E.
DIVISION MANAGER

DIEP NGUYEN
STREET LIGHTING ENGINEERING ASSOCIATE

ENGINEERING
CITY OF LOS ANGELES

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: COVER SHEET
PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANA ST. TO EVERGREEN AVE.
ADDRESS: BRITTANA STREET TO EVERGREEN AVENUE

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

C/P NO. M869
INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER
DEPUTY CITY ENGINEER/PROGRAM MANAGER
CITY ENGINEER
DATE
DATE

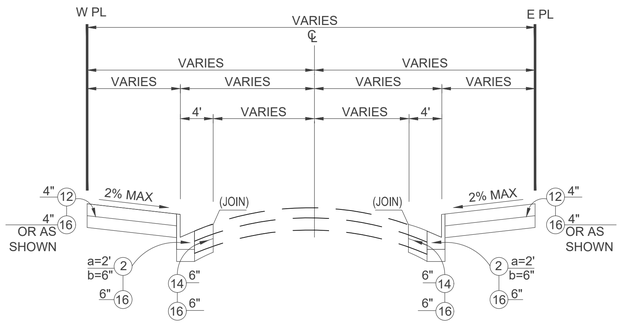
WORK ORDER NO. E1908099

SHEET NAME G01
SHEET 1 OF SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

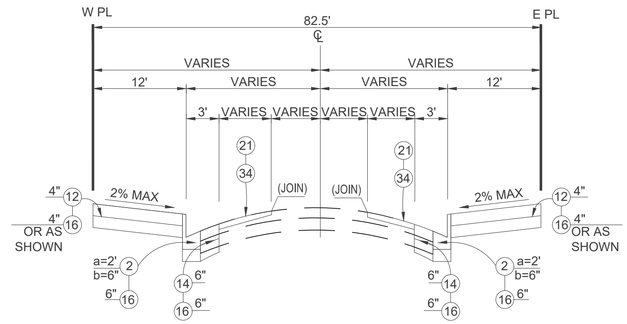
Sheet Version 4.0
C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-COVER SHEET_FINAL_MH.DWG 3/26/2024 4:02 PM



CESAR CHAVEZ AVE

NTS

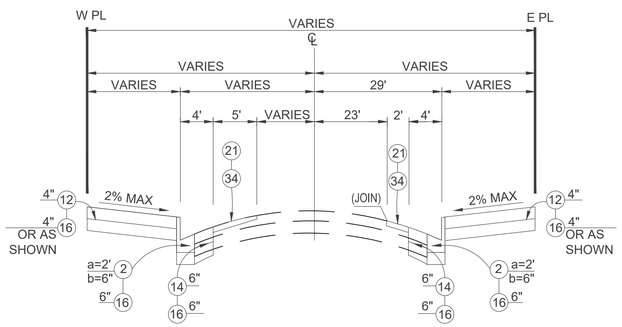
22+91.00 TO 23+55.29
39+00.00 TO 39+76.64



CESAR CHAVEZ AVE

NTS

49+00.00 TO 49+89.60
53+80.88 TO 54+91.58
55+75.58 TO 56+27.26
56+85.27 TO 58+23.87
60+86.43 TO 62+34.19



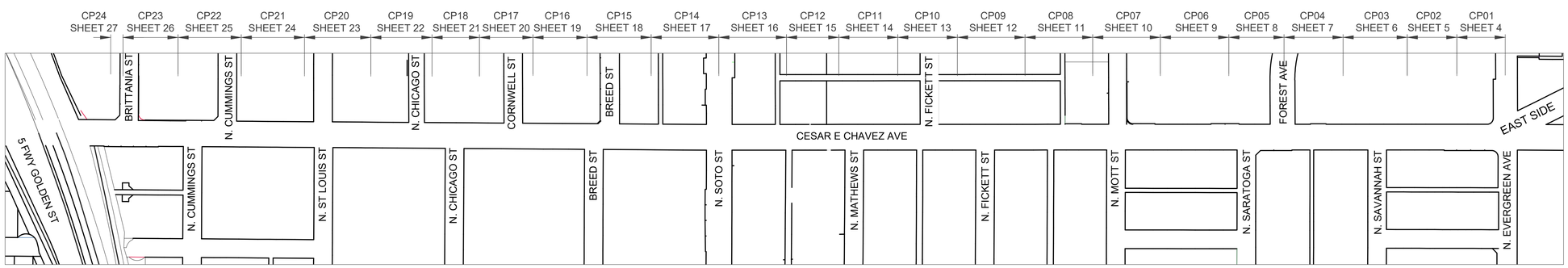
CESAR CHAVEZ AVE

NTS

24+26.81 TO 24+31.81
26+07.57 TO 26+69.89
26+97.78 TO 27+30.44
30+40.41 TO 32+80.00
35+43.00 TO 36+06.14

INDEX TO CIVIL DRAWINGS

DWG. NO.	PLANS OF	FROM	TO	INTERSECTION
CG01	INDEX AND KEY MAP	-		
CG02	GENERAL NOTES	-		
	CIVIL PLANS			
CP01	CESAR E CHAVEZ	STA. 21+00	STA. 22+70	EVERGREEN
CP02	CESAR E CHAVEZ	STA. 22+70	STA. 24+80	
CP03	CESAR E CHAVEZ	STA. 24+80	STA. 26+90	SAVANNAH
CP04	CESAR E CHAVEZ	STA. 26+90	STA. 28+70	FOREST
CP05	CESAR E CHAVEZ	STA. 28+70	STA. 30+70	SARATOGA
CP06	CESAR E CHAVEZ	STA. 30+70	STA. 32+80	
CP07	CESAR E CHAVEZ	STA. 32+80	STA. 34+90	MOTT
CP08	CESAR E CHAVEZ	STA. 34+90	STA. 36+90	
CP09	CESAR E CHAVEZ	STA. 36+90	STA. 39+00	FICKETT
CP10	CESAR E CHAVEZ	STA. 39+00	STA. 41+10	FICKETT
CP11	CESAR E CHAVEZ	STA. 41+10	STA. 43+10	MATHEWS
CP12	CESAR E CHAVEZ	STA. 43+10	STA. 45+20	
CP13	CESAR E CHAVEZ	STA. 45+20	STA. 46+90	SOTO
CP14	CESAR E CHAVEZ	STA. 46+90	STA. 49+00	SOTO
CP15	CESAR E CHAVEZ	STA. 49+00	STA. 50+95	BREED
CP16	CESAR E CHAVEZ	STA. 50+95	STA. 52+75	BREED
CP17	CESAR E CHAVEZ	STA. 52+75	STA. 54+55	CORNWELL
CP18	CESAR E CHAVEZ	STA. 54+55	STA. 56+15	CHICAGO
CP19	CESAR E CHAVEZ	STA. 56+15	STA. 58+30	ST. LOUIS
CP20	CESAR E CHAVEZ	STA. 58+30	STA. 60+30	
CP21	CESAR E CHAVEZ	STA. 60+30	STA. 62+30	
CP22	CESAR E CHAVEZ	STA. 62+30	STA. 64+30	CUMMINGS
CP23	CESAR E CHAVEZ	STA. 64+30	STA. 66+30	BRITANNIA
CP24	CESAR E CHAVEZ	STA. 63+30	STA. 66+61.11	BRITANNIA



KEY MAP

NOT TO SCALE

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN BI
No. C84659
CIVIL
STATE OF CALIFORNIA

"THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED"

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 4119 PG 81
HORIZONTAL CONTROL: FB 4119 PG81

SHEET TITLE: INDEX TO PLANS & KEY MAP

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS:

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CG01

SHEET 2 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

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NOTICE TO CONTRACTORS

1. **SPECIFICATIONS FOR THIS PROJECT**

   ALL WORK SHALL CONFORM TO THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS ADOPTED BY THE BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES AND AS MODIFIED BY CORRESPONDING ISSUE OF THE "BROWNBOOK" AND ALL TECHNICAL SECTIONS OF THE PROJECT MANUAL INCLUDING THE GENERAL CONDITIONS AND GENERAL REQUIREMENTS AND ANY SPECIAL PROVISIONS AND/OR ADDENDUMS.

2. THIS IMPROVEMENT CONSISTS OF WORK CALLED FOR ON THIS PLAN ONLY.

3. **PUBLIC WORKS INSPECTION**

   ALL WORK AND MATERIALS ARE SUBJECT TO INSPECTION.

   CALL 213.580.5080 BEFORE NOON OF THE WORKING DAY BEFORE THE DAY INSPECTION IS REQUIRED.

4. **SURVEY CONTROL FOR THIS PROJECT**

   A. VERTICAL CONTROL & HORIZONTAL CONTROL:

   FIELD BOOK 40234; PAGES 666 TO 676
   FIELD BOOK 40260; PAGE 291
   FIELD BOOK 174-173; PAGES 103, 104, 108, 109, 118, 505, 507, 509, 510, 515, 517, 518, 519

5. THE ENGINEER'S (CITY) SURVEYORS WILL PROVIDE:

   A. PRIMARY AND SECONDARY HORIZONTAL AND VERTICAL CONTROL NECESSARY FOR CONSTRUCTION ACTIVITIES. CITY SURVEYORS SHALL PRESERVE EXISTING MONUMENTATION.

   B. ALL NECESSARY CONSTRUCTION STAKES TO ESTABLISH THE LINES AND GRADES REQUIRED FOR THE WORK. ADDITIONAL WORKING STAKES USED BY THE CONTRACTOR IN PERFORMING THE WORK IS THE CONTRACTOR'S RESPONSIBILITY AND ARE TO BE SET FROM STAKES PROVIDED BY THE ENGINEER'S SURVEYORS. THE CONTRACTOR MUST SUBMIT A WRITTEN REQUEST FOR RESTAKING. APPROVED RESTAKING COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

6. SPECIAL ATTENTION RELATIVE TO PERMANENT SURVEY MARKERS IS CALLED TO SECTION 01722 OF THE GENERAL REQUIREMENTS. THE CONTRACTOR SHALL GIVE THE SURVEY DIVISION SEVEN (7) DAYS NOTICE PRIOR TO PERFORMING ANY EXCAVATION OR TRENCHING OPERATIONS IN DEDICATED STREETS.

7. THE CONTRACTOR SHALL REQUEST CONSTRUCTION STAKES FOR TANGNT CURBS AND/OR GUTTERS HAVING GRADES UNDER 0.5 PERCENT TO BE SET AT 12.5 FEET MAXIMUM INTERVALS.

8. THE CONTRACTOR SHALL POST ADVANCE CONSTRUCTION NOTICE SIGNS IN ACCORDANCE WITH STANDARD PLAN S-791-1. ALL COSTS INCURRED FURNISHING, INSTALLING, AND REMOVING THESE SIGNS SHALL BE CONSIDERED AS INCLUDED IN THE WORK FOR WHICH BID ITEMS ARE ENTERED.

9. AT LEAST TEN(10) WORKING DAYS PRIOR TO BEGINNING THE WORK, THE CONTRACTOR SHALL GIVE WRITTEN NOTICE TO ALL ABUTTING PROPERTY OWNERS AND/OR OCCUPANTS OF THE PROPOSED CONSTRUCTION START AND COMPLETION DATES.

10. THE CONTRACTOR SHALL CONTACT THE UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA, a.k.a DIGALERT, BY TELEPHONING EITHER 811 OR 800.227.2600 TO OBTAIN AN INQUIRY IDENTIFICATION NUMBER AT LEAST TWO(2) WORKING DAYS PRIOR TO ANY EXCAVATION WORK PER SECTION 01711 OF THE GENERAL REQUIREMENTS.

11. THE CITY ENGINEER'S SUBSTRUCTURE MAPS ARE NOT OFFICIAL RECORDS; THEREFORE, THE APPROXIMATE HORIZONTAL LOCATION OF KNOWN SUBSTRUCTURES IS SHOWN ON THIS PLAN AS INDICATED FROM THE CITY ENGINEER'S SUBSTRUCTURE MAPS.

    THIS PLAN AND RELATED SUBSTRUCTURE MAPS SHOULD BE USED AS A GUIDE TO IDENTIFY AND HORIZONTALLY LOCATE KNOWN SUBSTRUCTURES. THE CONTRACTOR SHALL OBTAIN ACCURATE SIZES, LOCATIONS AND DEPTHS OF SUBSTRUCTURES FROM THE RESPECTIVE UTILITY COMPANIES AND/OR REQUIRED POTHOLING WITH NO POWER TOOLS PERMITTED, EXCEPT TO BREAK PAVEMENT.

    ALL COSTS TO THE CONTRACTOR FOR LOCATING KNOWN SUBSTRUCTURES SHALL BE CONSIDERED AS INCLUDED IN THE WORK FOR WHICH BID ITEMS ARE ENTERED.

12. THE CONTRACTOR, IN CONFORMANCE TO LOS ANGELES CITY ORDINANCE 150478, SHALL POTHOLE EXISTING LIVE AND ABANDONED SUBSURFACE INSTALLATIONS CARRYING OR KNOWN TO HAVE CARRIED UNSTABLE SUBSTANCES TO DETERMINE THEIR LOCATIONS AND ELEVATIONS PRIOR TO COMMENCING EXCAVATION. NO POWER TOOLS PERMITTED, EXCEPT TO BREAK PAVEMENT.

    THE CONTRACTOR SHALL TEST FOR, REMOVE AND DISPOSE OF ALL RESIDUAL HAZARDOUS MATERIALS FOUND IN THE INTERFERING PORTIONS OF ABANDONED SUBSURFACE INSTALLATIONS.

    AFTER REMOVAL OF INTERFERING PORTIONS OF ABANDONED SUBSTRUCTURE CONDUITS INCLUDING ALL RESIDUAL CONTENTS, THE CONTRACTOR SHALL SEAL THE CONDUIT TO THE SATISFACTION OF THE PROJECT ENGINEER AND INSPECTOR. ALL COSTS TO THE CONTRACTOR SHALL BE CONSIDERED AS INCLUDED IN THE WORK FOR WHICH BID ITEMS ARE ENTERED.

13. ALL INTERFERING PUBLIC UTILITY FACILITIES INCLUDING FIRE HYDRANTS, WATER METERS, WATER AND GAS VALVES, TELEPHONE MAINTENANCE HOLES, POWER VAULTS; ETC., SHALL BE RELOCATED OR ADJUSTED TO GRADE BY OTHERS.

    THE CONTRACTOR SHALL RELOCATE AND/OR ADJUST TRAFFIC SIGNAL AND STREET LIGHTING PULL BOXES WITH CONDUITS ALONG WITH SEWER AND STORM DRAIN MAINTENANCE HOLE COVERS TO GRADE.

14. THE CONTRACTOR SHALL NOTIFY THE GEOTECHNICAL ENGINEERING DIVISION AT TELEPHONE 213.847.4010 AT LEAST TWO(2) WORKING DAYS PRIOR TO THE START OF EXCAVATION ON THIS PROJECT.

    THE GEOTECHNICAL REPORT FILE NUMBERS 90-433, 93-79 AND 09-007 WERE PREPARED BY THE GEOTECHNICAL ENGINEERING DIVISION(GED) MARCH 29, 1991, JULY 01, 1993 AND FEBRUARY 09, 2009; RESPECTIVELY, ARE A PART OF THESE PLANS.

15. CRUSHED MISCELLANEOUS BASE(CMB) PER SECTION 200-2 OF THE STANDARD SPECIFICATIONS SHALL BE PLACED UNDER ALL NEW CURB, GUTTER AND STREET PAVEMENT, UNLESS OTHERWISE SPECIFIED ON THE PLAN. PLACE A MINIMUM OF 4-INCH CMB UNDER SIDEWALK AND DRIVEWAYS, UNLESS OTHERWISE SPECIFIED ON THE PLAN.

16. PLACING PERMANENT ROADWAY PAVEMENT SHALL BE WITHHELD UNTIL CONTEMPLATED UTILITY CHANGES OR INSTALLATIONS HAVE BEEN MADE UNDER A CITY ISSUED UTILITY PERMIT.

17. ASPHALT CONCRETE WEARING SURFACE(ACWS) SHALL NOT BE LAID UNTIL ALL ASPHALT CONCRETE BASE IS PLACED.

18. IF ASPHALT CONCRETE(AC) PAVEMENT IS CONSTRUCTED, THE EXISTING AC OR PORTLAND CEMENT CONCRETE(PCC) PAVEMENT AT ALL ROADWAY JOIN LINES SHALL BE COLD-MILLED OR GROUND TO A MINIMUM DEPTH OF TWO(2) INCHES AND A MINIMUM WIDTH OF FIVE(5) FEET.

    THIS AC AND/OR PCC PAVEMENT REMOVAL SHALL PROVIDE ADEQUATE DEPTH FOR A TWO(2) -INCH MINIMUM OVERLAY OF ASPHALT CONCRETE WEARING SURFACE(ACWS).

    UNLESS THE PLACING OF ACWS IMMEDIATELY FOLLOWS THIS REMOVAL OPERATION, TEMPORARY AC SHALL BE PLACED ADJACENT TO ALL EDGES AND OTHER ROUGH SPOTS WITHIN THE REMOVAL AREA TO PROVIDE A SMOOTH SURFACE FOR VEHICULAR TRAFFIC.

19. TEMPORARY TRENCH RESURFACING SHALL BE THREE(3) -INCH ASPHALT CONCRETE ON GRADE.

20. THE CONTRACTOR SHALL REPLACE, IN-KIND, AND RECONNECT ALL CURB DRAINS PER STANDARD PLAN S-503-2.

21. THE CONTRACTOR SHALL REMOVE TREE(S) ONLY WHEN DESIGNATED ON THE PLAN. THE REMOVAL OF TWO OR MORE TREES WILL REQUIRE THE APPROVAL OF THE BOARD OF PUBLIC WORKS AND A TREE REMOVAL PERMIT. THE CONTRACTOR SHALL NOTIFY THE BUREAU OF STREET SERVICES(BSS)-URBAN FORESTRY DIVISION AT TELEPHONE 213.847.3077 FIVE(5) WORKING DAYS BEFORE ANY TREE REMOVAL(S) FOR SUBMITTAL POLICY AND PROCEDURES.

    THE BSS-URBAN FORESTRY DIVISION SHALL INSPECT ANY EXISTING TREE(S) IMPACTED BY THE WORK. ALL TREE ROOT PRUNING AND TRIMMING OF CANOPIES SHALL PROCEED ONLY UNDER THE SUPERVISION AND INSPECTION OF A BSS TREE INSPECTOR.

    THE BSS SHALL APPROVE AND MARK ALL NEW STREET TREE LOCATIONS PRIOR TO PLANTING. THE CONTRACTOR SHALL CALL BSS-URBAN FORESTRY DIVISION AT TELEPHONE 213.847.3077 FIVE(5) WORKING DAYS BEFORE ANY PLANTINGS FOR MARKING OF THE TREE LOCATIONS.

    THE BSS-URBAN FORESTRY DIVISION SHALL INSPECT, APPROVE AND TAG ALL NEW STREET TREES PRIOR TO SITE DELIVERY. THE CONTRACTOR SHALL CONTACT BSS AT TELEPHONE 213.847.3077 AT LEAST FIVE(5) WORKING DAYS PRIOR TO TREE DELIVERY TO COORDINATE A NURSERY VISIT. THE NURSERY SHALL BE LOCATED WITHIN A FIFTY(50) MILES RADIUS FROM THE STREET TREE INSPECTOR'S DISTRICT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERMIT REQUIREMENTS AND FEES.

    THE CONTRACTOR SHALL NOTIFY THE BSS-LANDSCAPE MAINTENANCE TO ATTEND BOTH THE POST-CONSTRUCTION, PRE-PLANT ESTABLISHMENT PERIOD AND THE POST-PLANT ESTABLISHMENT PERIOD FINAL INSPECTIONS SO THAT ALL MANUALS, AS-BUILTS, KEYS, ETC. CAN BE TURNED OVER TO THE BSS.

22. THE CONTRACTOR SHALL DETERMINE IF SPRINKER SYSTEMS ARE IN WORKING ORDER BY CONTACTING THE ADJACENT PROPERTY OWNERS. THE PROPERTY OWNERS HAVE THE OPTION TO SALVAGE IRRIGATION SYSTEM PARTS.

    THE CONTRACTOR SHALL RELOCATE AND/OR ADJUST EXISTING, WORKING, IRRIGATION SYSTEMS IN THE PUBLIC RIGHT OF WAY (PARKWAY) AND/OR TEMPORARY CONSTRUCTION EASEMENTS BY INSTALLING NEW, IN-KIND, PIPES AND ADDING NEW, ADJUSTABLE RADIUS, SPRINKLER HEADS SET FLUSH WITH THE TOP OF ADJACENT FINISHED SURFACES AS NEEDED TO ENSURE HEALTHY, VIGOROUS, PLANT GROWTH.. THE CONTRACTOR SHALL PROVIDE HEAD TO HEAD COVERAGE.

    THE CONTRACTOR SHALL GRADE ALL AREAS BACK OF THE CURB, SIDEWALK OR EDGE OF PAVEMENT TO A FINISHED SURFACE HAVING A MINIMUM TWO(2) PERCENT GRADE AND SHALL REPAIR LAWN AREAS BY OVERSEEDING WITH SAME
    VARIETY OF SEED MIX AS THE EXISTING GRASS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS SECTION 308-4.8, METHOD "A".

    ALL COSTS TO THE CONTRACTOR FOR LANDSCAPE AND IRRIGATION WORK AND MATERIALS SHALL BE CONSIDERED AS INCLUDED IN THE WORK FOR WHICH BID ITEMS ARE ENTERED.

23. THE CONTRACTOR SHALL NOTIFY THE MTA SUPERINTENDENT OF TRANSPORTATION SERVICES OFFICE AT TELEPHONE 213.922.4646 AT LEAST SEVENTY-TWO(72) HOURS PRIOR TO ANY WORK WHICH WILL AFFECT EXISTING BUS OPERATIONS AND/OR FACILITIES.

    THE CONTRACTOR SHALL PROVIDE CONTINUOUS BUS ACCESS THROUGHOUT THE PROJECT LENGTH AND DURATION.

24. **STANDARD PLANS FOR THIS PROJECT**

A. CITY OF LOS ANGELES -BUREAU OF ENGINEERING

STANDARD PLAN S-100 SERIES
S-110-1 .... HOUSE CONNECTION SEWERS
S-111-0 .... HOUSE CONNECTION REMDELING
S-112-0 .... TRAP HOUSE CONNECTION SEWER
S-137-1 .... ADJUSTING SEWER MAINTENANCE HOLE TO GRADE

STANDARD PLAN S-200 SERIES
S-241-0 .... REINFORCED CONCRETE PIPE
S-251-1 ....PIPE LAYING IN TRENCHES
S-253-0 .... SUPPORTS FOR STORM DRAIN AND SEWER PIPES ACROSS TRENCHES
S-255-1 .... BLANKET PROTECTION FOR PIPES
S-281-3 .... MAINTENANCE HOLE FRAME AND COVER 24 -INCH
S-282-2 .... MAINTENANCE HOLE FRAME AND COVER 27 -INCH
S-283-3 .... MAINTENANCE HOLE FRAME AND COVER 30 -INCH
S-286-2 .... MAINTENANCE HOLE FRAME AND COVER 36 -INCH

STANDARD PLAN S-300 SERIES
S-300-1 .... JUNCTION STRUCTURE "A"
S-312-1 .... PAVEMENT REMODELING AT CATCH BASINS

STANDARD PLAN S-400 SERIES
S-410-2 .... TYPES OF CURB AND GUTTER
S-420-2 .... ALLEY INTERSECTION
S-430-1 .... JOINTS IN CONCRETE PAVEMENT
S-431-0 .... JOINTS IN CONCRETE SIDEWALK
S-432-1 .... STANDARD STREET CROWN SECTIONS
S-433-1 ....BUS PAD
S-440-4 ....DRIVEWAYS
S-442-6........ CURB RAMPS
S-444-0..........SIDEWALKS
S-450-4 .... TREE WELL SIZE AND COVER DETAILS
S-456-2 .... TREE WELL, ROOT BARRIER AND PLANTING
S-463-3 .... PEDESTRIAN PIPE GUARDRAIL AND HANDRAILS
S-470-1 .... STANDARD STREET DIMENSIONS
S-481-0 .... PARKWAY SWALE IN MAJOR/SECONDARY HIGHWAYS

STANDARD PLAN S-500 SERIES
S-503-2 .... TOP OF WALL GUTTERS AND DRAIN DETAILS

STANDARD PLAN S-600 SERIES
S-601-3 .... HAND HOLES, MAINTENANCE HOLE COVERS AND FRAMES, DETECTABLE WARNING SURFACE, TREE WELL COVERS, PAVERS AND SIMILAR INSTALLATIONS
S-623-0 .... DRAFTING SYMBOLS FOR EXISTING CULTURE
S-627-0 .... SYMBOLS FOR CONSTRUCTION NOTES
S-654-0 .... SHRUB, LAWN AND OSCILLATING SPRINKLER HEADS
S-655-0 .... VALVES AND VALVE BOXES
S-657-0 .... TRENCHING DETAIL
S-663-1 .... TREE STAKING AND GUYING DETAILS
S-664-0 .... LANDSCAPE IRRIGATION SYMBOLS
S-691-0 .... CHAIN LINK FENCE AND GATES

STANDARD PLAN S-700 SERIES
S-701-0 .... SURVEY MONUMENT COVER AND INSTALLATION DETAILS
S-702-0 .... SURVEY MONUMENTS
S-703-0 .... SURVEY BENCH MARKS
S-704-0 .... VERTICAL SURVEY DATUMS
S-791-1 .... ADVANCE CONSTRUCTION NOTICE SIGNS

B. "GREENBOOK" COMMITTEE -STANDARD PLANS FOR PUBLIC WORKS

SECTION 3 - FLOOD CONTROL AND STORM DRAIN FACILITIES
300-4 .... CURB OPENING CATCH BASIN
308-3 .... MONOLITHIC CATCH BASIN CONNECTION
309-3 .... CATCH BASIN REINFORCEMENT
310-4 .... CATCH BASIN FACE PLATE ASSEMBLY AND PROTECTION BAR
312-5 .... CATCH BASIN MANHOLE FRAME AND COVER
313-4 .... LOCAL DEPRESSION AT CATCH BASINS
321-2 .... MANHOLE PIPE TO PIPE (ONE OR BOTH MAIN LINE ID'S 33 -INCH OR SMALLER)
322-3 .... MANHOLE PIPE TO PIPE (LARGE SIDE INLET)
326-2 .... MANHOLE SHAFT 36 -INCH WITHOUT REDUCER
340-2 .... TRANSITION STRUCTURE PIPE TO PIPE
380-4 .... CONCRETE COLLAR FOR RCP 12 -INCH THROUGH 72 -INCH

SECTION 6 - GENERAL FACILITIES
633-5 .... 36 -INCH MANHOLE FRAME AND COVER
635-3 .... STEEL STEP

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REVISION DATES (DESIGN STAGE ONLY)

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER YAN XIA BI No. C84659 CIVIL STATE OF CALIFORNIA

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81
SHEET TITLE: NOTICE TO CONTRACTORS
PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.
ADDRESS:

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

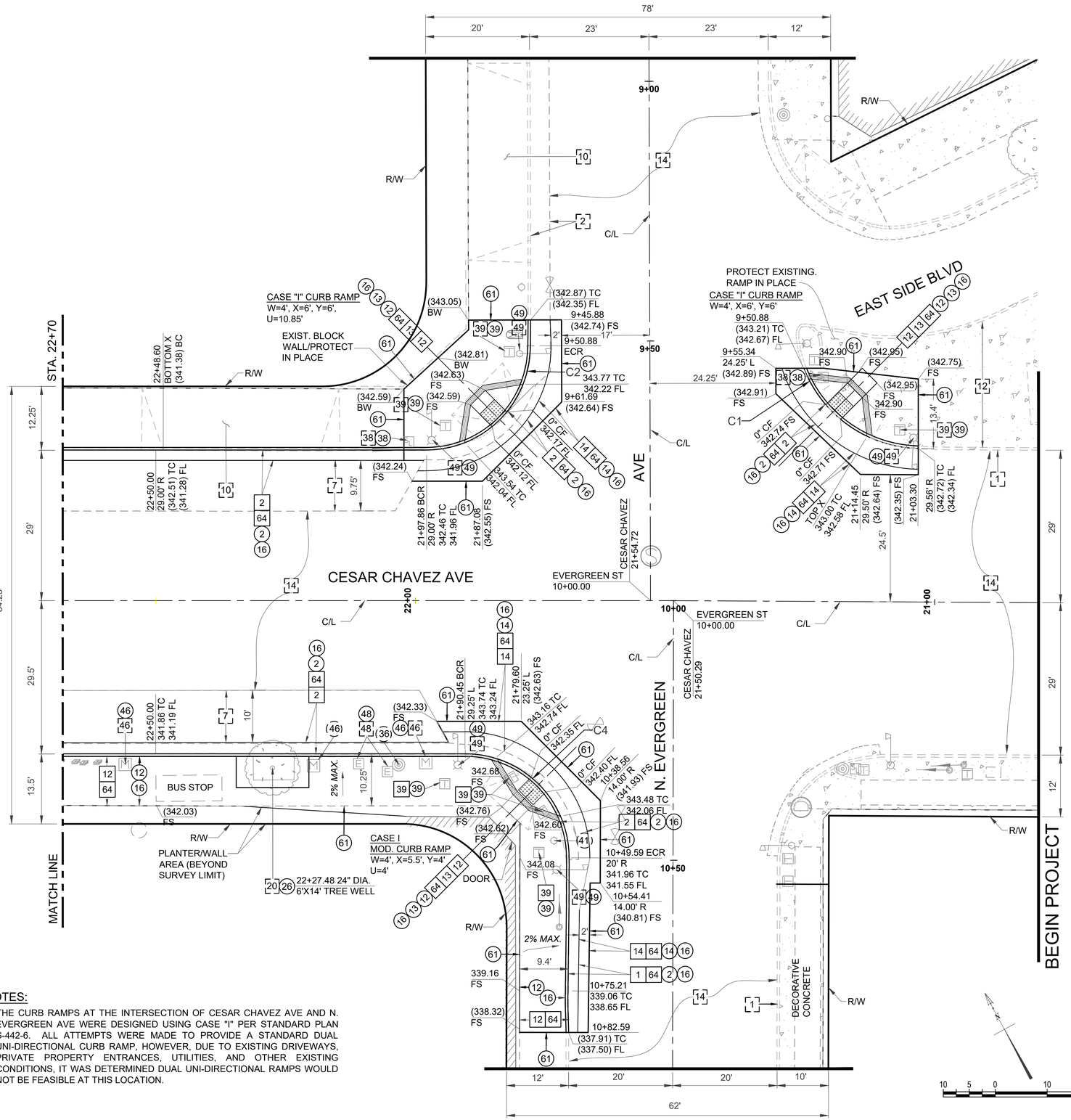
CIP NO. M869
INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E. CITY ENGINEER
DESIGN GROUP

		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CG02
SHEET 3 OF 40 SHEETS



NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND N. EVERGREEN AVE WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
37	RELOCATE AND/OR ADJUST-POLE ANCHOR	
38	RELOCATE AND/OR STREET LIGHTING PULLBOX	
39	RELOCATE AND/OR ADJUST-UTILITY/TRAFFIC BOX	
41	RELOCATE AND/OR ADJUST-FIRE HYDRANT	
46	RELOCATE AND/OR ADJUST-WATER METER	
47	RELOCATE AND/OR ADJUST-STREET SIGN	
48	RELOCATE AND/OR ADJUST-ELECTRIC PULLBOX	
49	RELOCATE AND/OR ADJUST-TRAFFIC SIGNAL	
50	RELOCATE AND/OR ADJUST-STREET LIGHT	
51	RELOCATE AND/OR ADJUST-GAS VALVE	
52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
62	REINFORCED CONCRETE RETAINING WALL	
64	UNCLASSIFIED BASE MATERIAL	
70	TELEPHONE	
86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS
BW - BACK OF WALK
CD - CURB DRAIN
FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	67°20'20"	24.26	28.52	16.16
C2	90°09'50"	20.00	31.47	20.06
C3	90°11'40"	20.00	31.48	20.07
C4	90°07'20"	20.00	31.46	20.04

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN (AMY) XIA BI
No. C84659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ AT EVERGREEN

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

CIP NO. M869

CITY ENGINEER
TED ALLEN, P.E.

		DATE:
DESIGN GROUP		
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

CITY OF LOS ANGELES

WORK ORDER NO. E1908099

SHEET NAME CP01

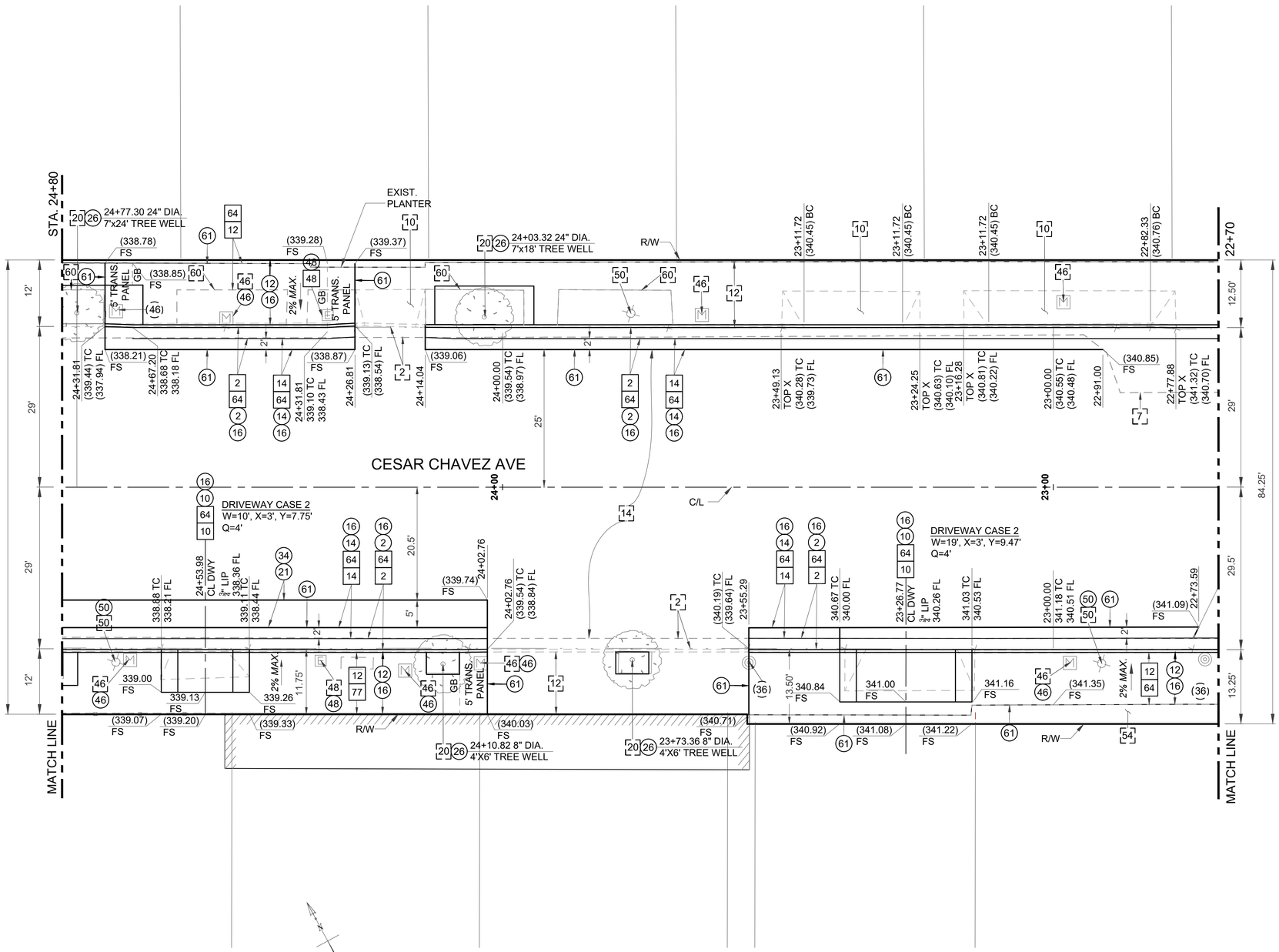
SHEET 4 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 11:25 AM



CONSTRUCTION LEGEND

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CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
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- SEWER MANHOLE

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FS - FINISHED SURFACE
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TREE-

PALM TREE-

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

REGISTERED PROFESSIONAL ENGINEER X.I.A. BI No. C84659 CIVIL STATE OF CALIFORNIA

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 22+70 TO 24+80

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP02

SHEET 5 OF 40 SHEETS

REVISION DATES (DESIGN STAGES ONLY)

Sheet Version 4.0

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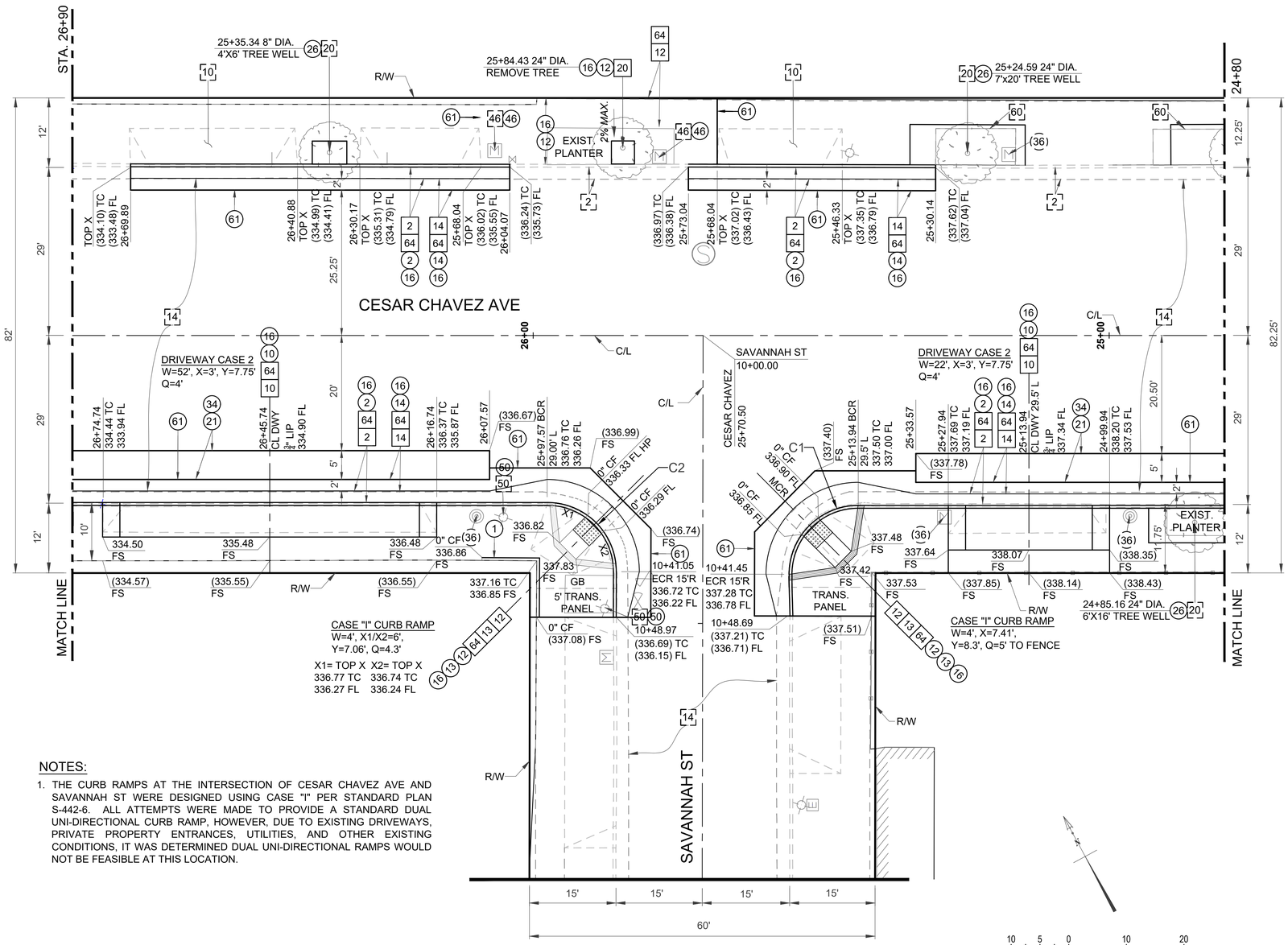

NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND SAVANNAH ST WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.

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TF - TOP OF FOOTING

TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°54'10"	12.00	18.83	11.98
C2	90°05'50"	12.00	18.87	12.02

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER X.I.A. BI No. C84659 CIVIL STATE OF CALIFORNIA
• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81
SHEET TITLE: CIVIL PLAN
PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.
ADDRESS: CESAR CHAVEZ AT STA. 24+80 TO 26+90

DEPARTMENT OF PUBLIC WORKS
NO. | REVISIONS: | DATE: | BY:
CIP NO. M869
INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP03
SHEET 6 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

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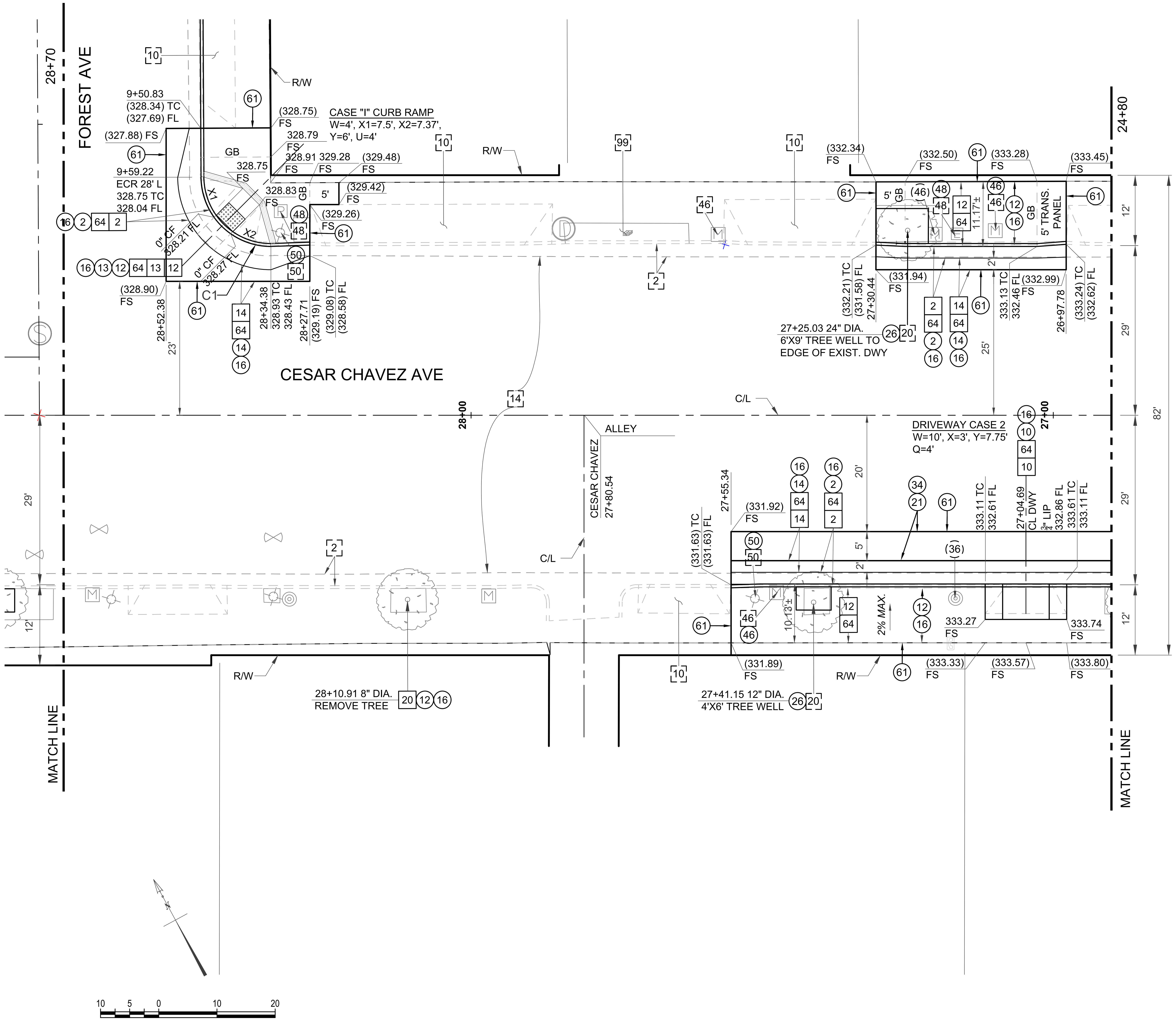

CONSTRUCTION LEGEND

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CONSTRUCTION NOTES

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TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°41'10"	12.00	18.78	11.93

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER YAN XIA BI No. C84659 CIVIL STATE OF CALIFORNIA

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN
PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.
ADDRESS: CESAR CHAVEZ STA. 26+90 TO 28+70

NO. | REVISIONS: | DATE: | BY:

CIP NO. M869

INDEX NO.

TED ALLEN, P.E. CITY ENGINEER
DESIGN GROUP | DATE:
ENGINEER: YAN (AMY) XIA BI, P.E. | 3/26/24
DESIGNED BY: HENRY SISOMVANG, DANIEL DOUBLESIN
DRAWN BY: DANIEL DOUBLESIN
CHECKED BY: CHEN MIN HUANG, P.E. | 03/27/24
APPROVED BY: ARSEN VOSKERCHYAN, P.E. | 04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP04
SHEET 7 OF 40 SHEETS

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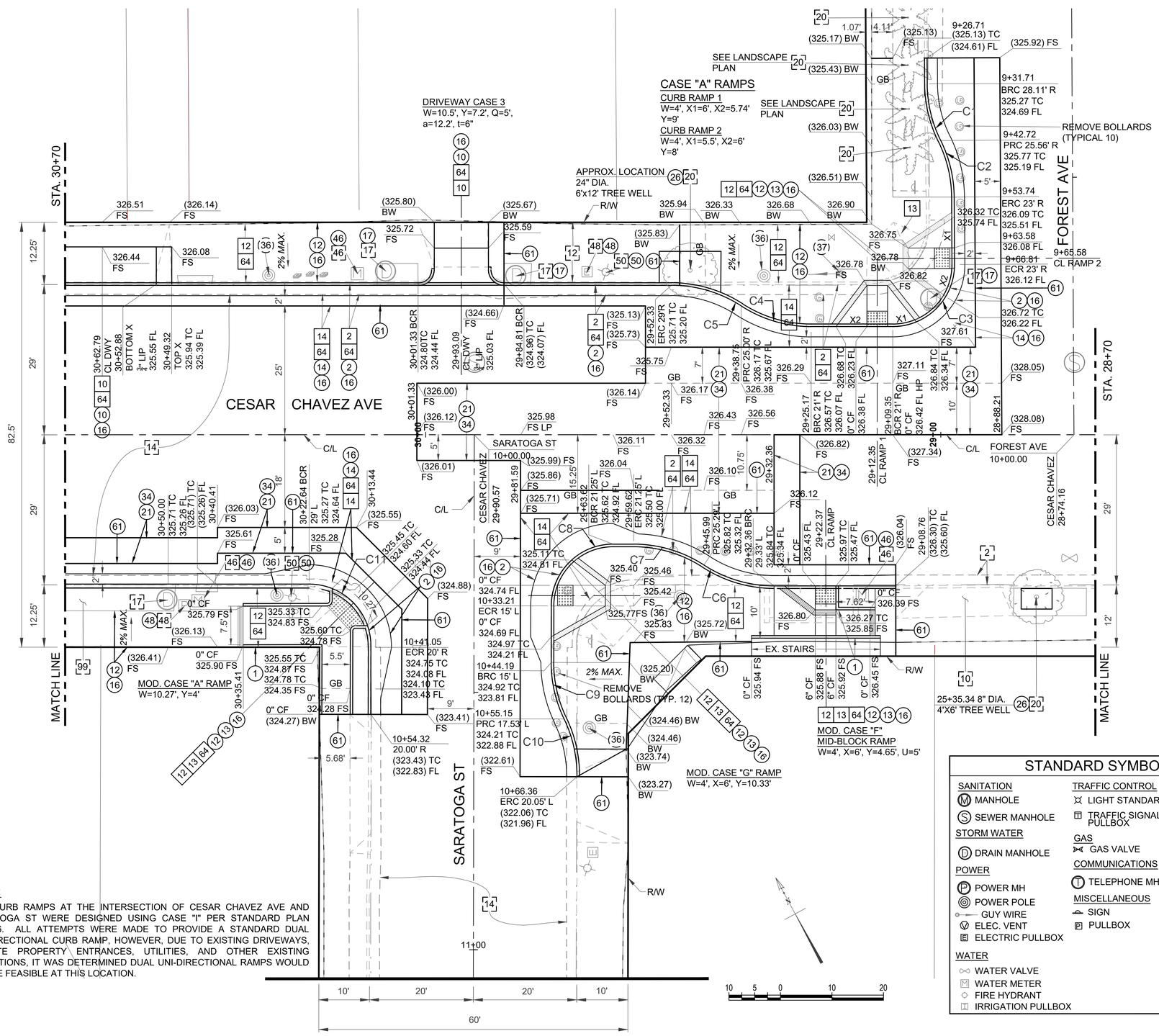
REVISION DATES (DESIGN STAGE ONLY)



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7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
37	RELOCATE AND/OR ADJUST-POLE ANCHOR	
38	RELOCATE AND/OR STREET LIGHTING PULLBOX	
39	RELOCATE AND/OR ADJUST-UTILITY/TRAFFIC BOX	
41	RELOCATE AND/OR ADJUST-FIRE HYDRANT	
46	RELOCATE AND/OR ADJUST-WATER METER	
47	RELOCATE AND/OR ADJUST-STREET SIGN	
48	RELOCATE AND/OR ADJUST-ELECTRIC PULLBOX	
49	RELOCATE AND/OR ADJUST-TRAFFIC SIGNAL	
50	RELOCATE AND/OR ADJUST-STREET LIGHT	
51	RELOCATE AND/OR ADJUST-GAS VALVE	
52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
62	REINFORCED CONCRETE RETAINING WALL	
64	UNCLASSIFIED BASE MATERIAL	
70	TELEPHONE	
86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	26°09'00"	25.00	11.41	5.81
C2	26°08'10"	25.00	11.40	5.80
C3	90°19'00"	12.00	18.92	12.07
C4	32°53'40"	25.00	14.35	7.38
C5	32°53'50"	25.00	14.35	7.38
C6	33°01'40"	25.00	14.41	7.41
C7	33°02'40"	25.00	14.42	7.42
C8	89°54'20"	12.00	18.83	11.98
C9	25°58'40"	25.00	11.34	5.77
C10	26°35'30"	25.00	11.60	5.91
C11	90°05'40"	12.00	18.87	12.02

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS
- BW - BACK OF WALK
- CD - CURB DRAIN
- FL - FLOW LINE
- TC - TOP OF CURB
- TW - TOP OF WALL
- FS - FINISHED SURFACE
- TF - TOP OF FOOTING

TREE-

PALM TREE-

NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND SARATOGA ST WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ BLVD AND SARATOGA STREET WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN BI
No. C84659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 28+70 TO 30+70

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

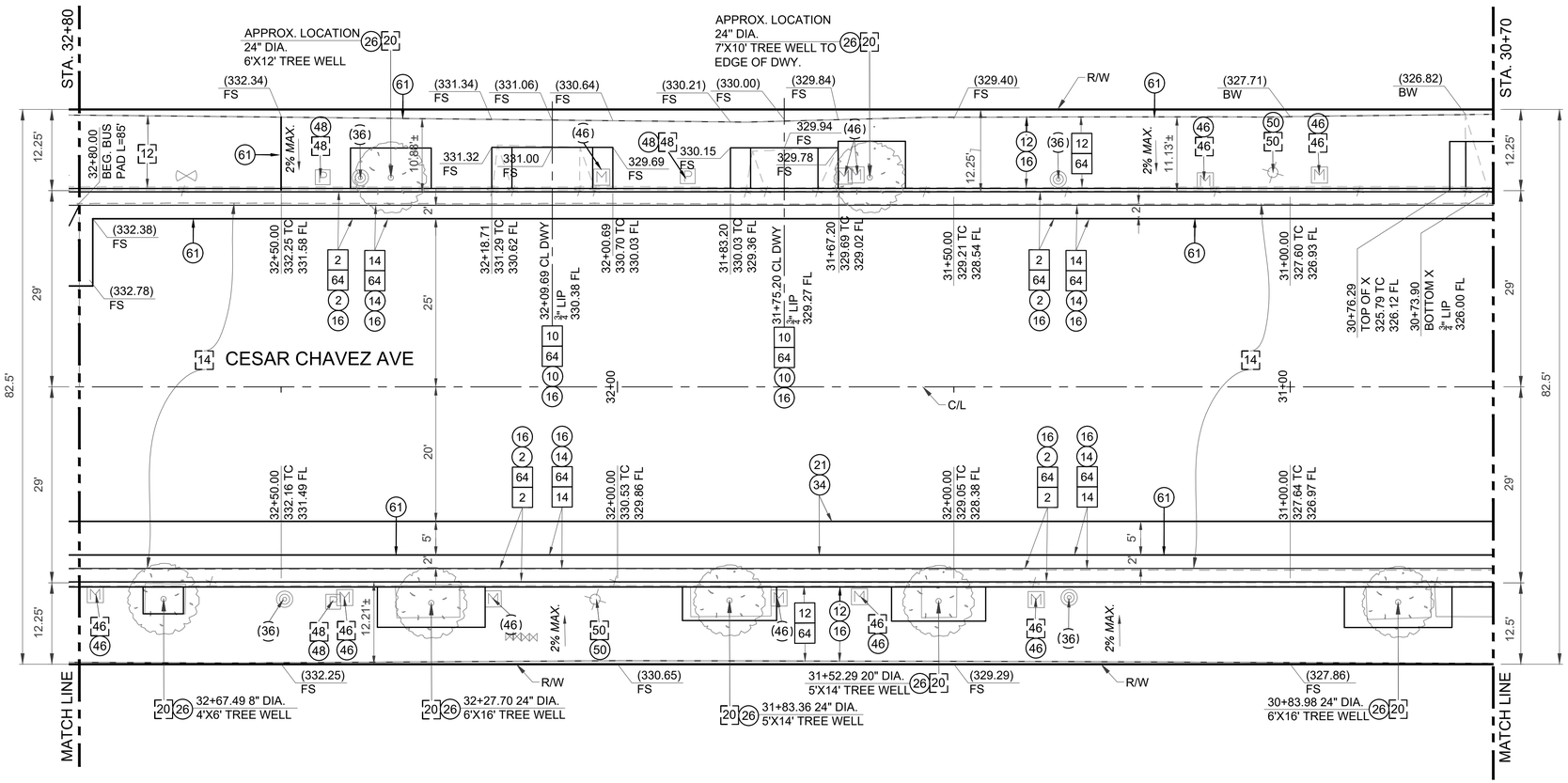
CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

		DATE:
DESIGN GROUP		
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP05

SHEET 8 OF 40 SHEETS



CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
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34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
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59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
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86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

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- MANHOLE
- SEWER MANHOLE

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POWER
- POWER MH
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- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

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TREE-

PALM TREE-

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER X.A. BI No. C84659 STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS:

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	03/27/24
CHECKED BY:	CHEN MIN HUANG, P.E.	04/03/2024
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	

CITY ENGINEER

WORK ORDER NO. E1908099

SHEET NAME CP06

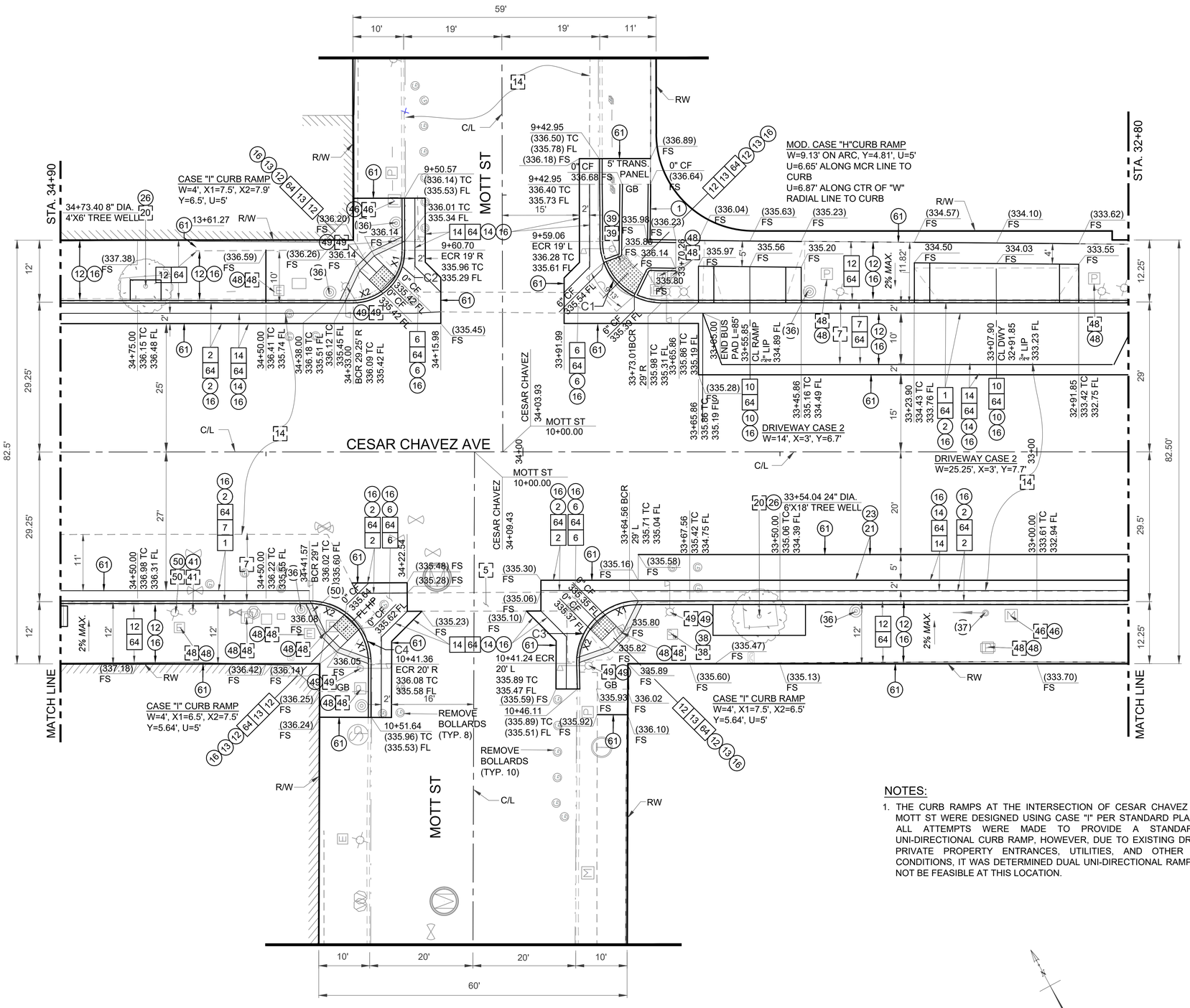
SHEET 9 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGES ONLY)

Sheet Version 4.0

C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 11:19 AM



CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
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86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

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- SEWER MANHOLE

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- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
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- WATER VALVE
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TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
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COMMUNICATIONS
- TELEPHONE MH

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TREE-

PALM TREE-

NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND MOTT ST WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°52'50"	12.00	18.82	11.98
C2	90°06'10"	10.00	15.73	10.02
C3	91°27'30"	12.00	19.16	12.31
C4	90°11'50"	12.00	18.89	12.04

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN BI
No. C84659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 32+80 TO 34+90

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP07

SHEET 10 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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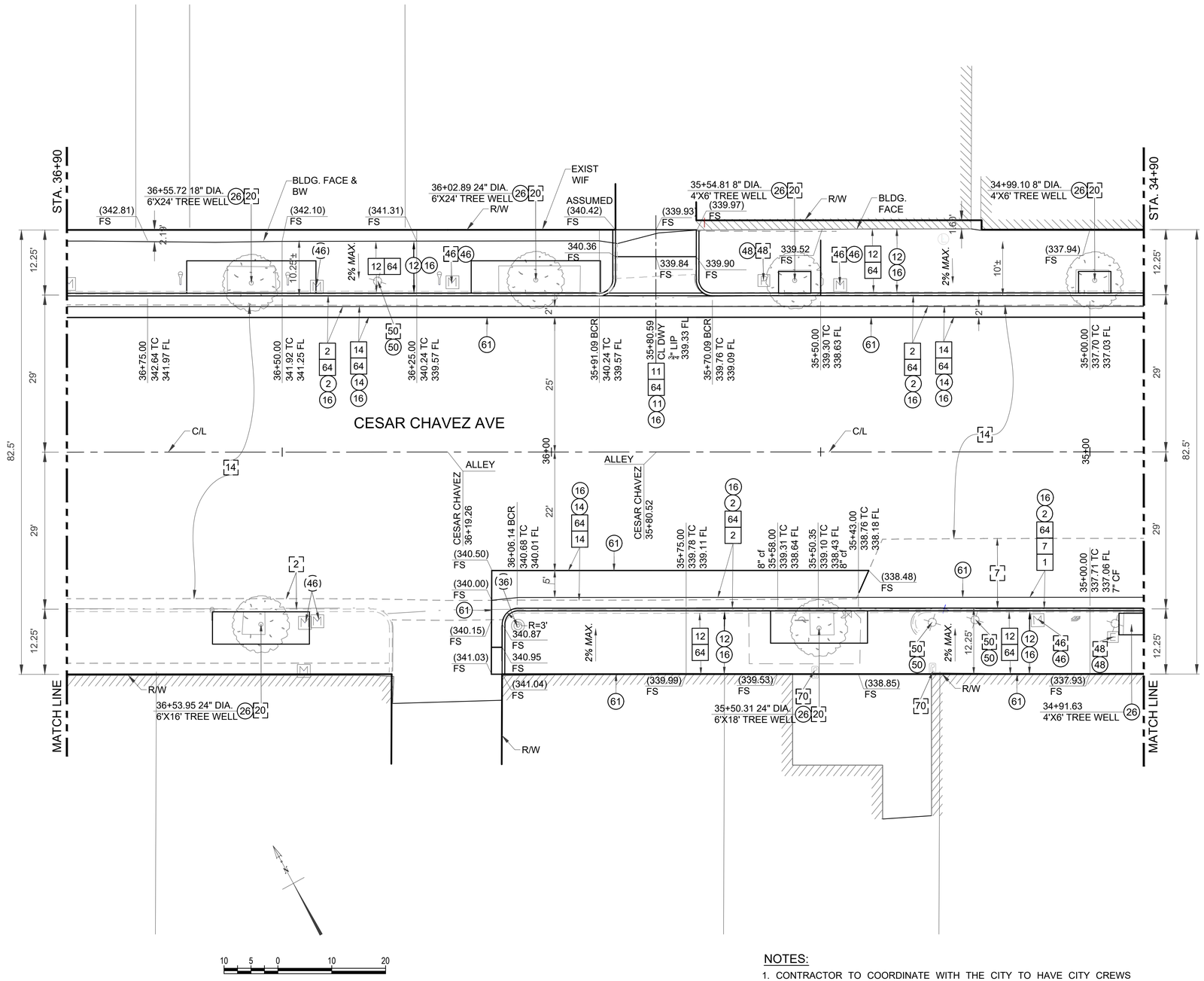

CONSTRUCTION LEGEND

- CONSTRUCT
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- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
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FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

NOTES:

1. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER X.A.N. B.I. No. C84659 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 34+90 TO 36+30

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP08

SHEET 11 OF 40 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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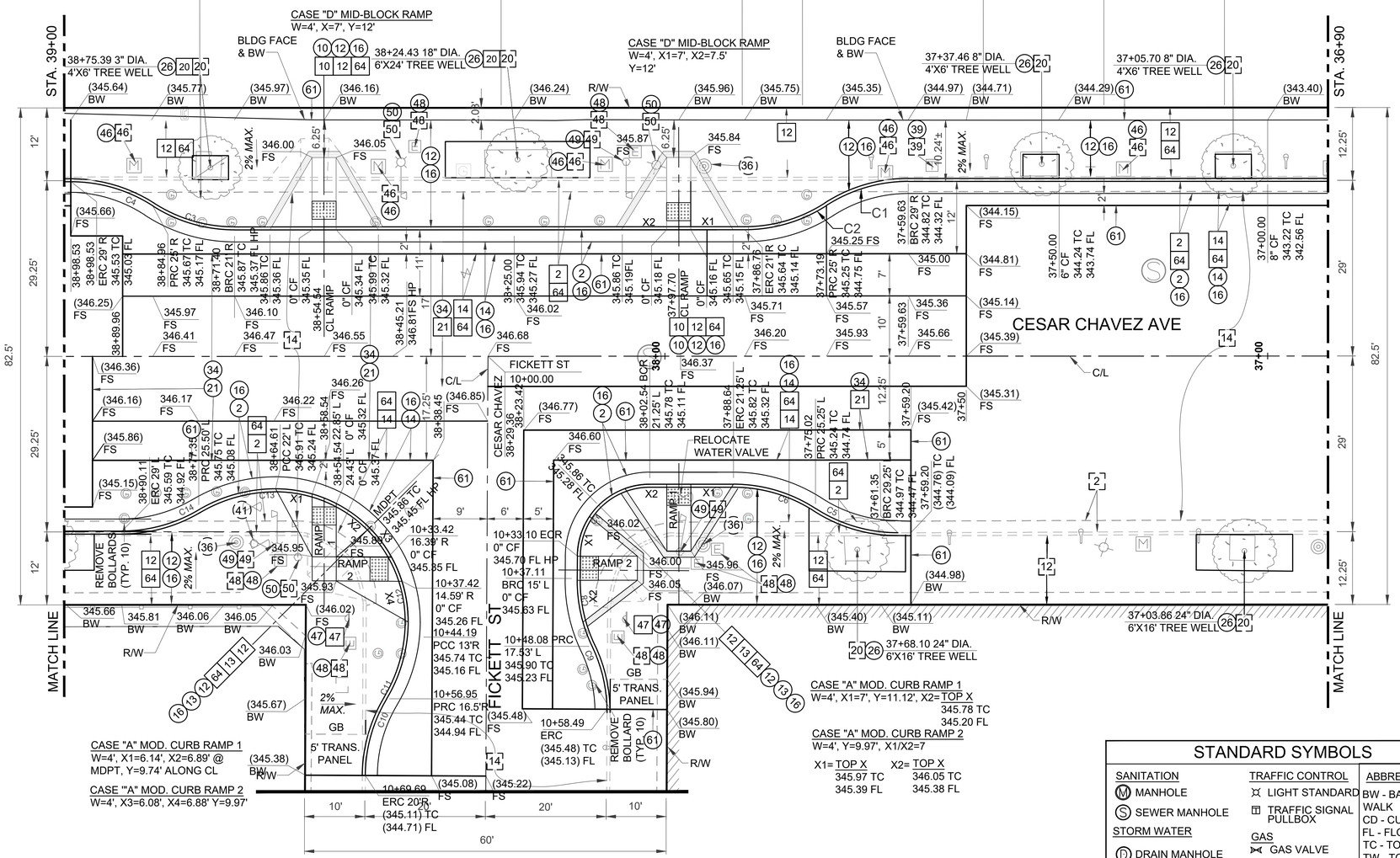
C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 11:17 AM



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- REMOVE & CONSTRUCT
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31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
37	RELOCATE AND/OR ADJUST-POLE ANCHOR	
38	RELOCATE AND/OR STREET LIGHTING PULLBOX	
39	RELOCATE AND/OR ADJUST-UTILITY/TRAFFIC BOX	
41	RELOCATE AND/OR ADJUST-FIRE HYDRANT	
46	RELOCATE AND/OR ADJUST-WATER METER	
47	RELOCATE AND/OR ADJUST-STREET SIGN	
48	RELOCATE AND/OR ADJUST-ELECTRIC PULLBOX	
49	RELOCATE AND/OR ADJUST-TRAFFIC SIGNAL	
50	RELOCATE AND/OR ADJUST-STREET LIGHT	
51	RELOCATE AND/OR ADJUST-GAS VALVE	
52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
62	REINFORCED CONCRETE RETAINING WALL	
64	UNCLASSIFIED BASE MATERIAL	
70	TELEPHONE	
86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	32°51'40"	25.00	14.34	7.37
C2	32°51'40"	25.00	14.34	7.37
C3	32°51'40"	25.00	14.34	7.37
C4	32°51'40"	25.00	14.34	7.37
C5	33°07'10"	25.00	14.45	7.43
C6	32°59'20"	25.00	14.39	7.40
C7	89°39'00"	12.00	18.78	11.93
C8	26°01'50"	25.00	11.36	5.78
C9	26°00'50"	25.00	11.35	5.77
C10	30°39'10"	25.00	13.38	6.85
C11	30°40'50"	25.00	13.39	6.86
C12	90°18'40"	22.00	34.68	22.12
C13	30°38'20"	25.00	13.37	6.85
C14	30°41'00"	25.00	13.39	6.86

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS

BW - BACK OF WALK
CD - CURB DRAIN
FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

NOTES:

1. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER YAN (AMY) XIA BI No. C84659 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 36+90 TO 39+00

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP09

SHEET 12 OF 40 SHEETS

REVISION DATES (DESIGN STAGES ONLY)

Sheet Version 4.0

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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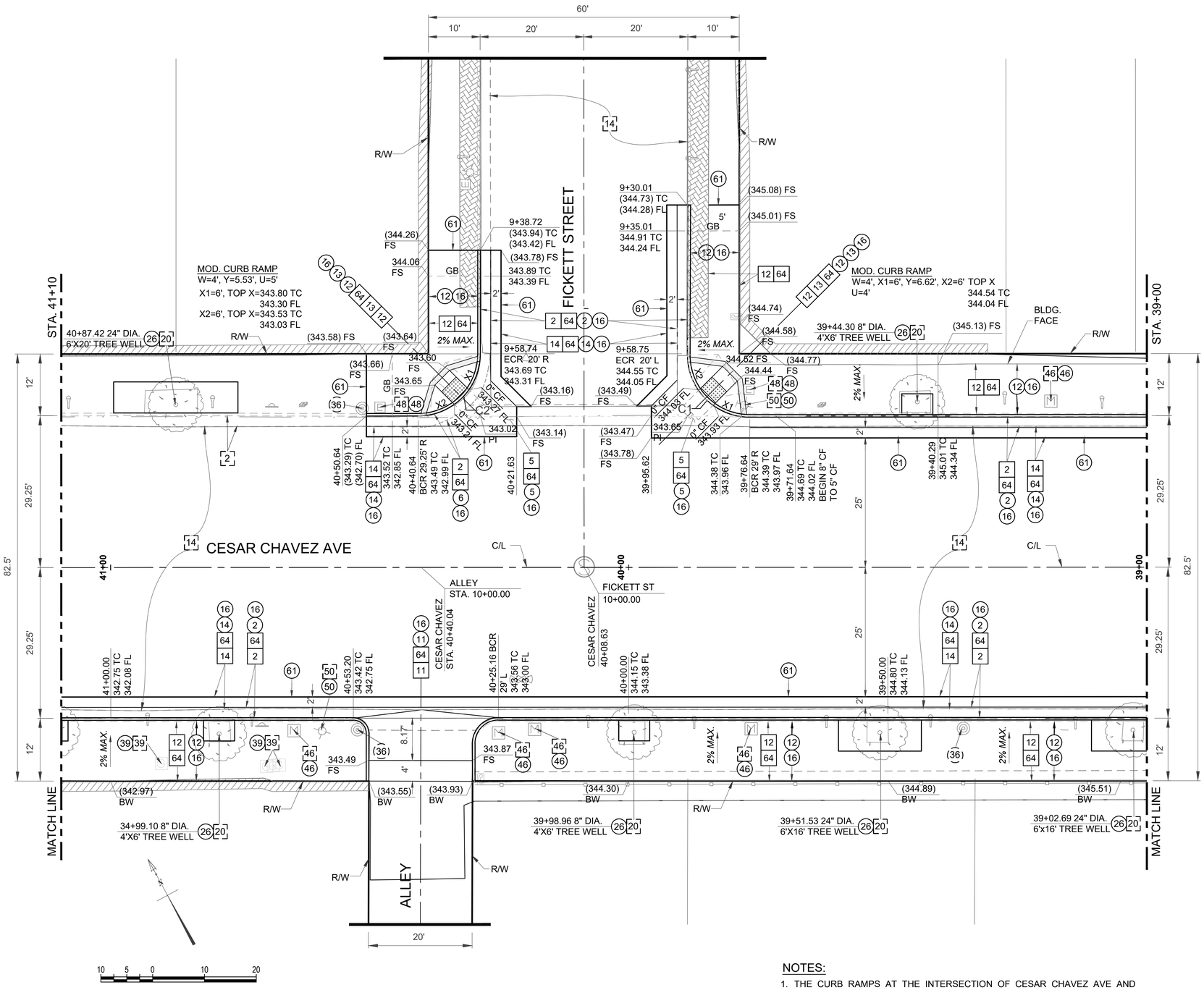

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
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36	RELOCATE AND/OR ADJUST-UTILITY POLE	
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52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
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86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS

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CD - CURB DRAIN
FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
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TREE-

PALM TREE-

NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND FICKETT STREET WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.
2. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°59'10"	12.00	18.85	12.00
C2	90°00'50"	12.00	18.85	12.00

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN BI
No. C84659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 39+00 TO 41+10

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHIEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP10

SHEET 13 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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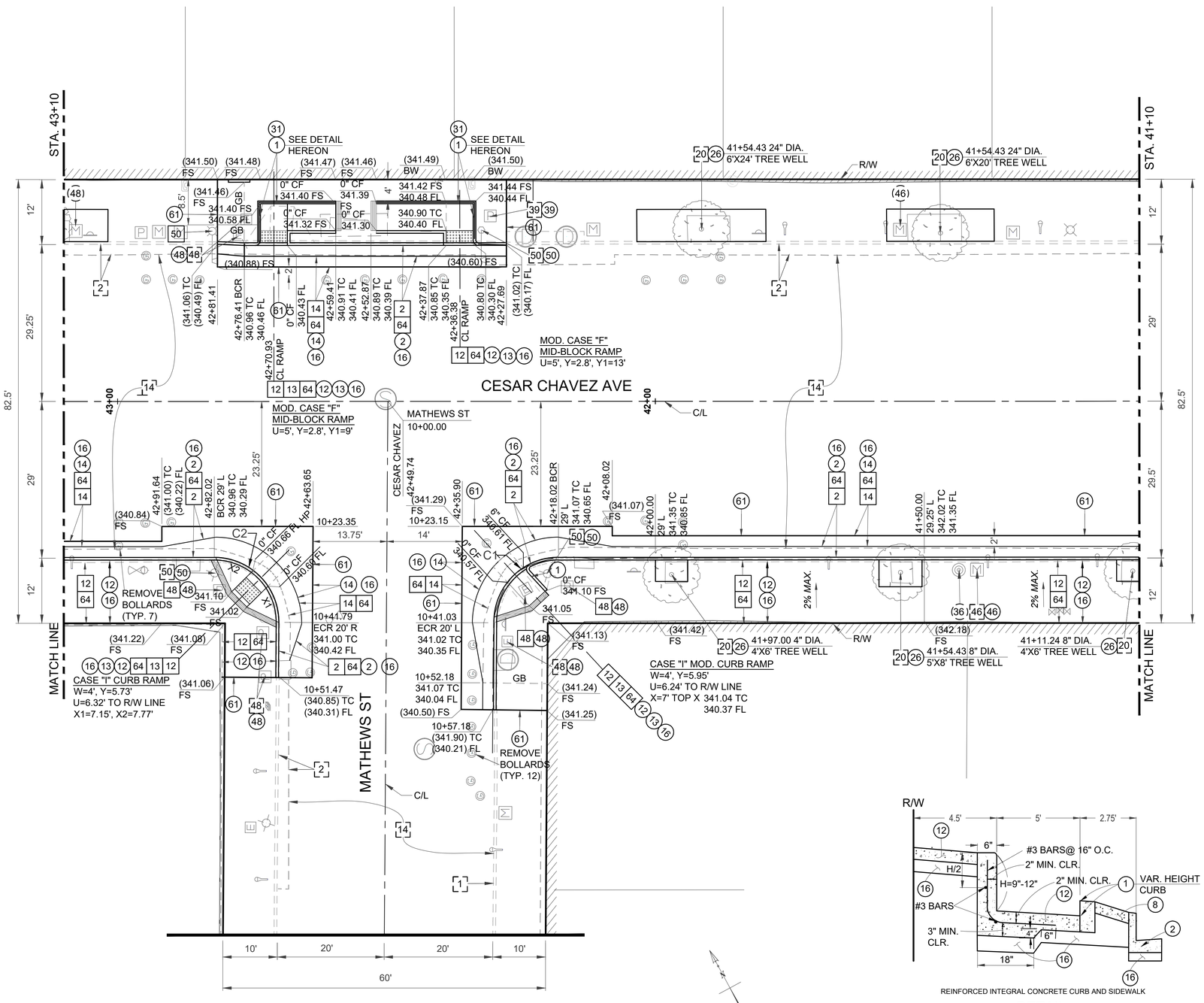

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
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86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS
BW - BACK OF WALK
CD - CURB DRAIN
FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

REINFORCED INTEGRAL CONCRETE CURB AND SIDEWALK

DETAIL

NOT TO SCALE

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°36'00"	12.00	18.77	11.92
C2	90°24'00"	12.00	18.93	12.08

NOTES:

1. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER X.I.A. BI No. C84699 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS

VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 41+10 TO 43+10

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

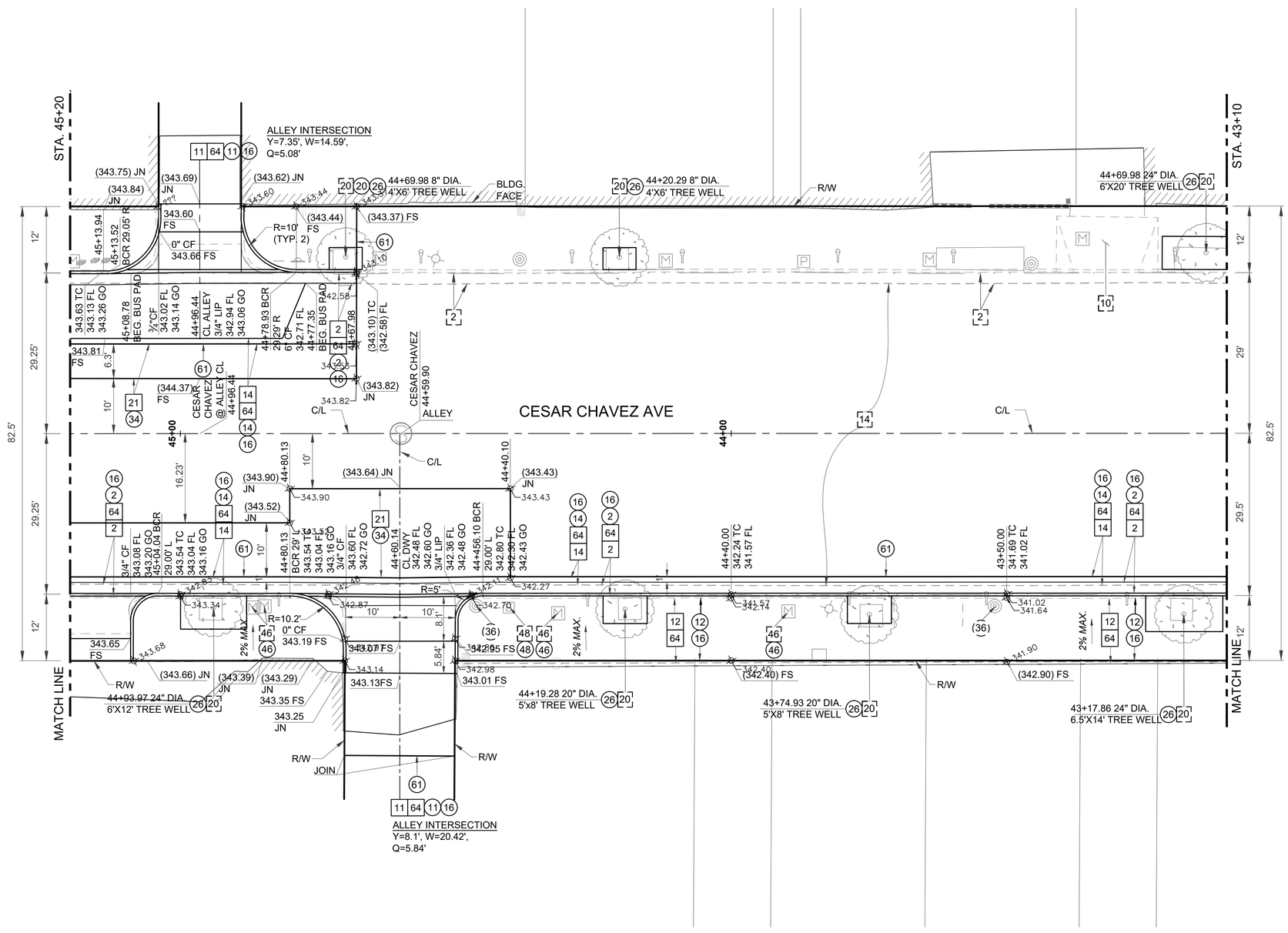
CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

	DESIGN GROUP	DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHIEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP11

SHEET 14 OF 40 SHEETS



CONSTRUCTION LEGEND

- CONSTRUCT
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CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
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ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER YAN X. BI No. C84659 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 43+10 TO 45+20

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES

CITY ENGINEER TED ALLEN, P.E.

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP12

SHEET 15 OF 40 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

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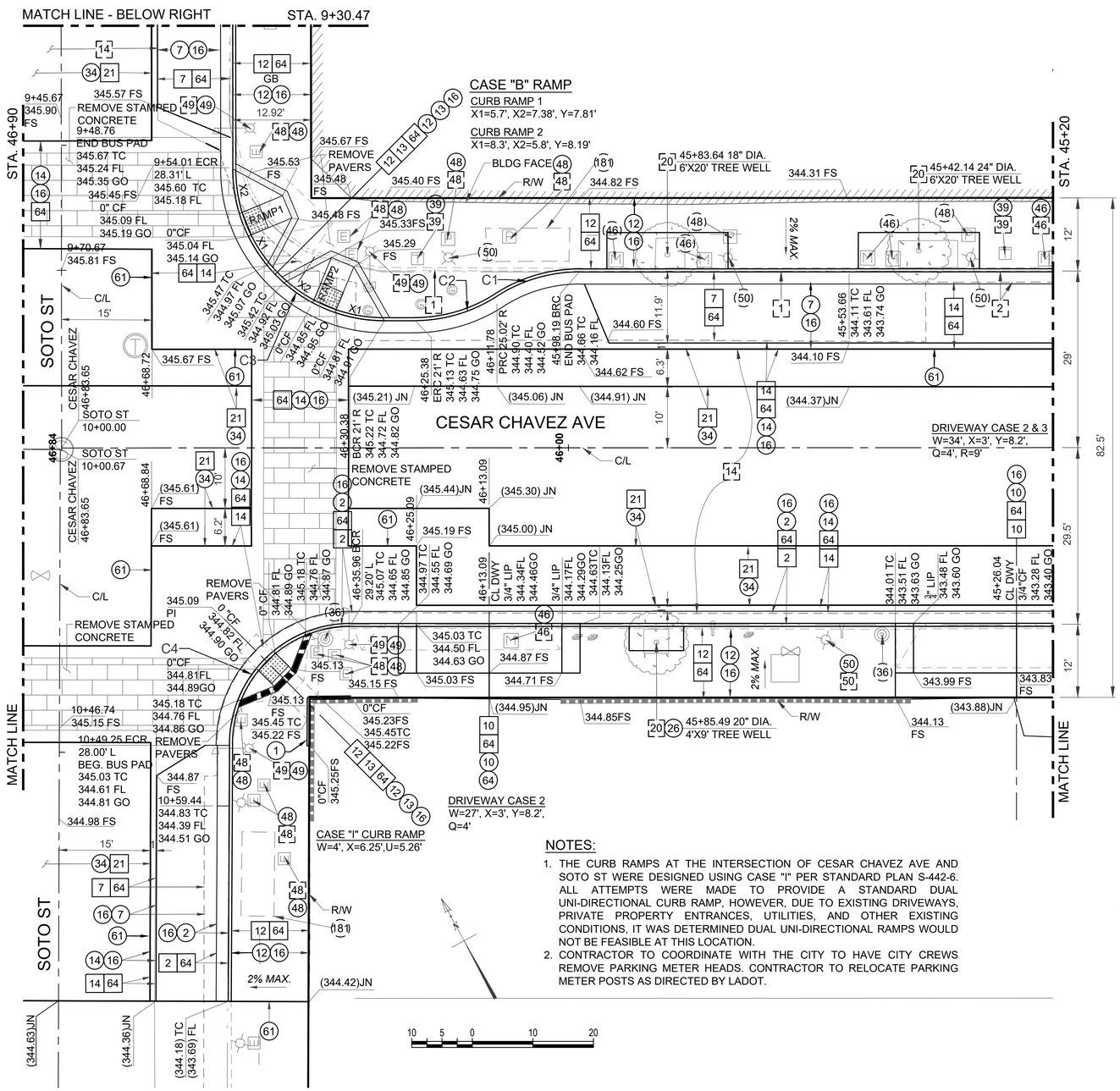

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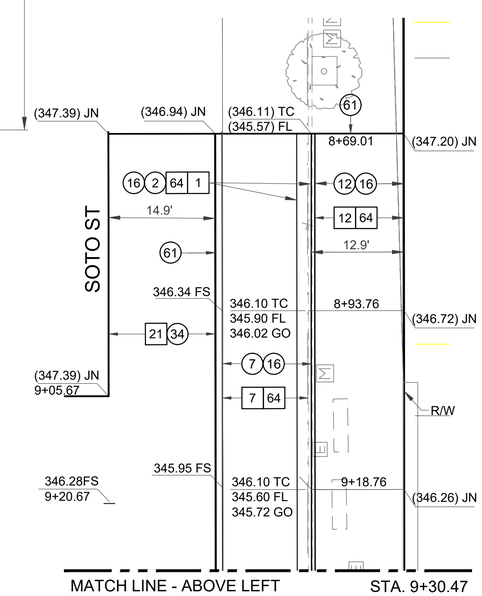

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7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
37	RELOCATE AND/OR ADJUST-POLE ANCHOR	
38	RELOCATE AND/OR STREET LIGHTING PULLBOX	
39	RELOCATE AND/OR ADJUST-UTILITY/TRAFFIC BOX	
41	RELOCATE AND/OR ADJUST-FIRE HYDRANT	
46	RELOCATE AND/OR ADJUST-WATER METER	
47	RELOCATE AND/OR ADJUST-STREET SIGN	
48	RELOCATE AND/OR ADJUST-ELECTRIC PULLBOX	
49	RELOCATE AND/OR ADJUST-TRAFFIC SIGNAL	
50	RELOCATE AND/OR ADJUST-STREET LIGHT	
51	RELOCATE AND/OR ADJUST-GAS VALVE	
52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
62	REINFORCED CONCRETE RETAINING WALL	
64	UNCLASSIFIED BASE MATERIAL	
70	TELEPHONE	
86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS
BW - BACK OF WALK
CD - CURB DRAIN
FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	32°56'30"	25.00	14.37	7.39
C2	32°56'30"	25.00	14.37	7.39
C3	89°56'50"	25.00	39.25	24.98
C4	89°48'00"	20.00	31.35	19.93

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN (AMY) XIA BI
No. 084659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 45+20 TO 46+90

DEPARTMENT OF PUBLIC WORKS

V NO.	REVISIONS:	DATE:	BY:

INDEX NO.

CIP NO. M869

CITY OF LOS ANGELES

CITY ENGINEER: TED ALLEN, P.E.

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP13

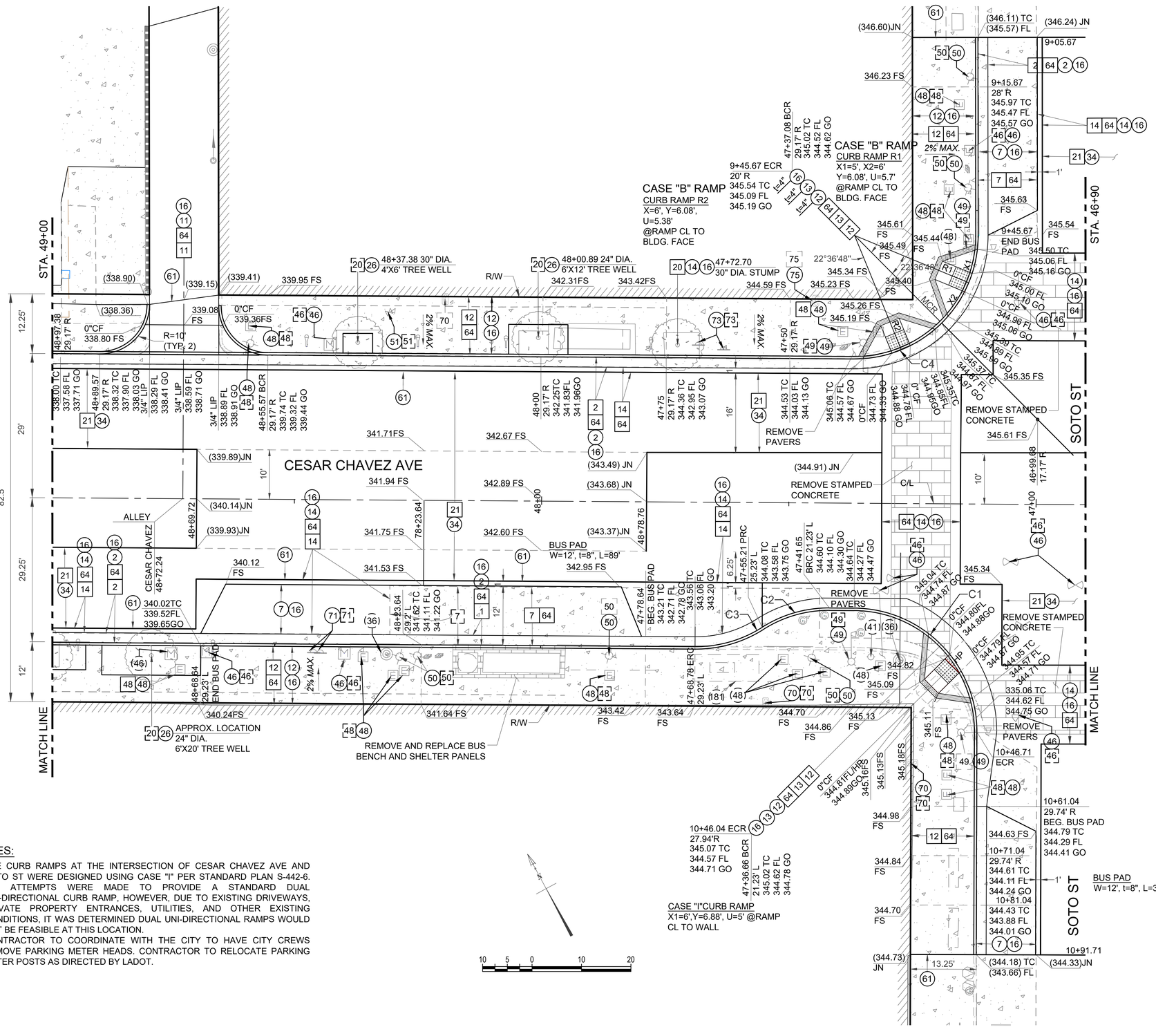
SHEET 16 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGES ONLY)

Sheet Version 4.0

C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 11:07 AM



NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND SOTO ST WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.
2. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
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54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
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86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
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BW - BACK OF WALK
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TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°47'50"	25.00	39.18	24.91
C2	32°51'40"	25.00	14.34	7.37
C3	32°51'40"	25.00	14.34	7.37
C4	90°27'10"	25.00	39.47	25.20

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER YAN BI No. C84699 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 46+90 to 49+00

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
CITY ENGINEER: TED ALLEN, P.E.

	DESIGN GROUP	DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHIEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP14

SHEET 17 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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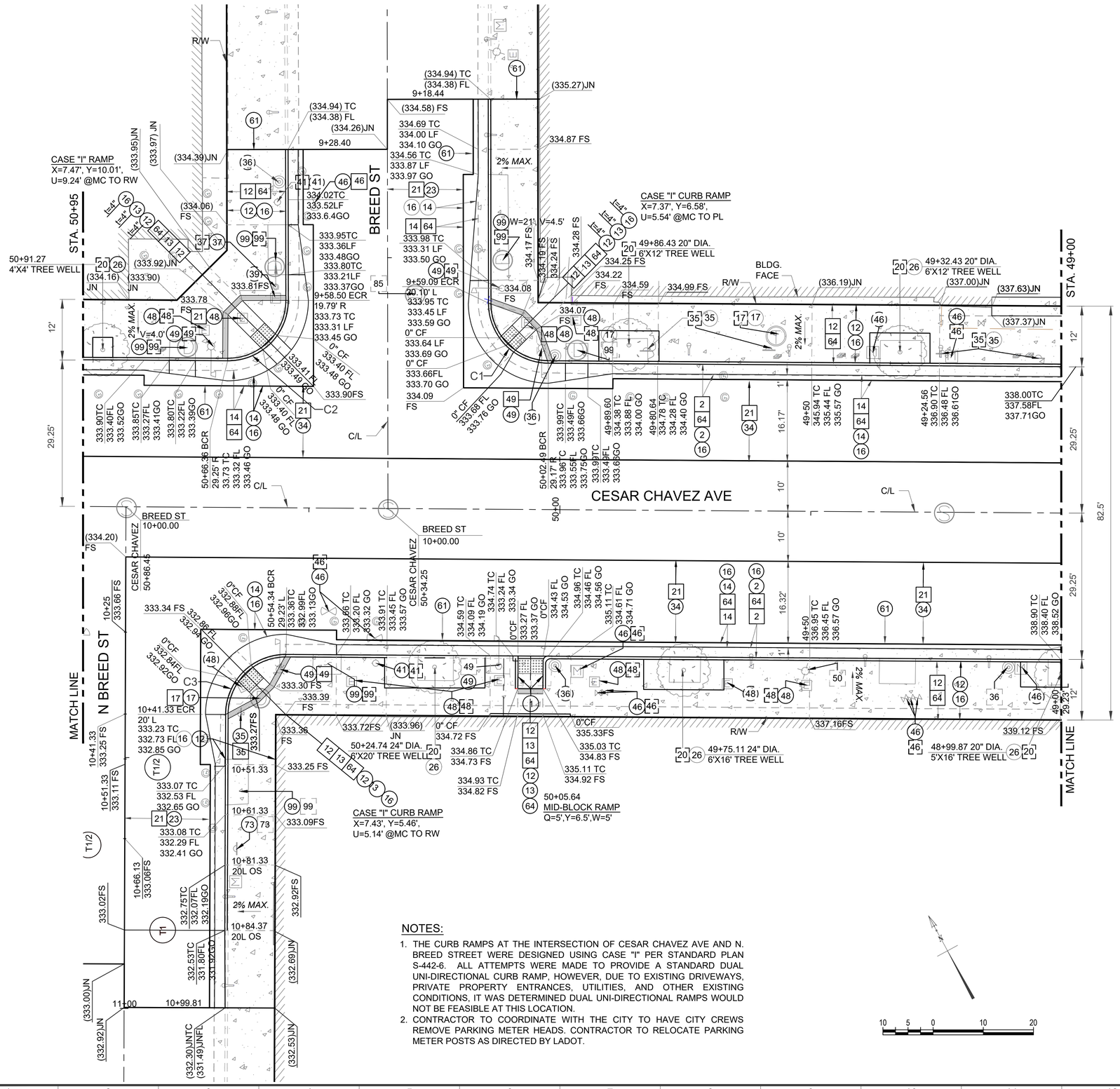

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
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- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
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- SEWER MANHOLE

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TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

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- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
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PALM TREE-

NOTES:

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2. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°31'50"	12.00	18.75	11.90
C2	90°28'10"	12.00	18.95	12.10
C3	90°10'10"	12.00	18.89	12.04

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN BI
No. C84659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 49+00 to 50+95

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

INDEX NO.

CIP NO. M869

CITY OF LOS ANGELES

CITY ENGINEER: TED ALLEN, P.E.

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP15

SHEET 18 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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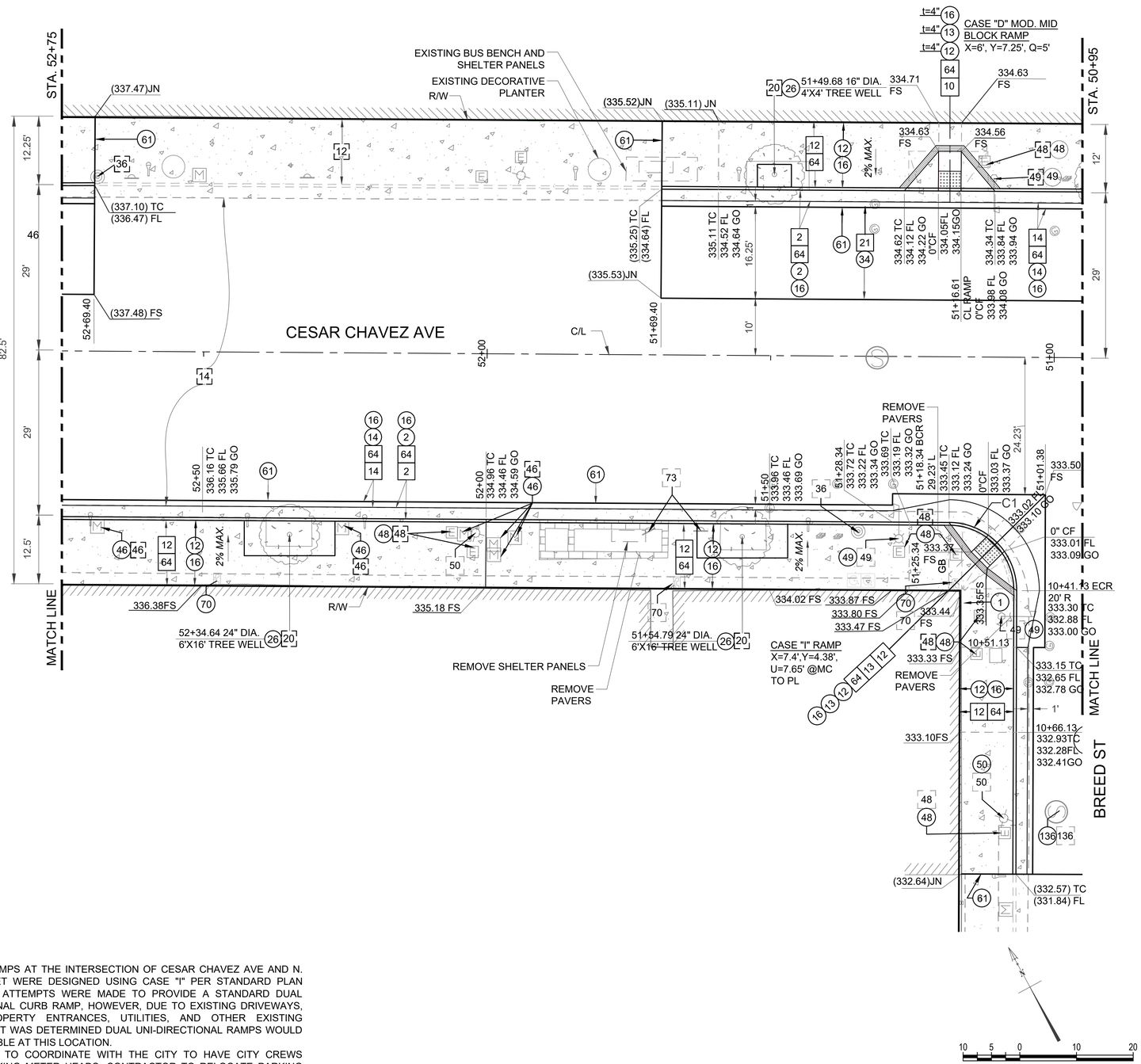

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
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4	CONCRETE GUTTER	
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7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
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- SEWER MANHOLE

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FL - FLOW LINE
TC - TOP OF CURB
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FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°49'40"	12.00	18.81	11.96

NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND N. BREED STREET WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.
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ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN X.I.A. BI
No. C84659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 50+95 to 52+75

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP16

SHEET 19 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES: (DESIGN STAGE ONLY)

Sheet Version 4.0

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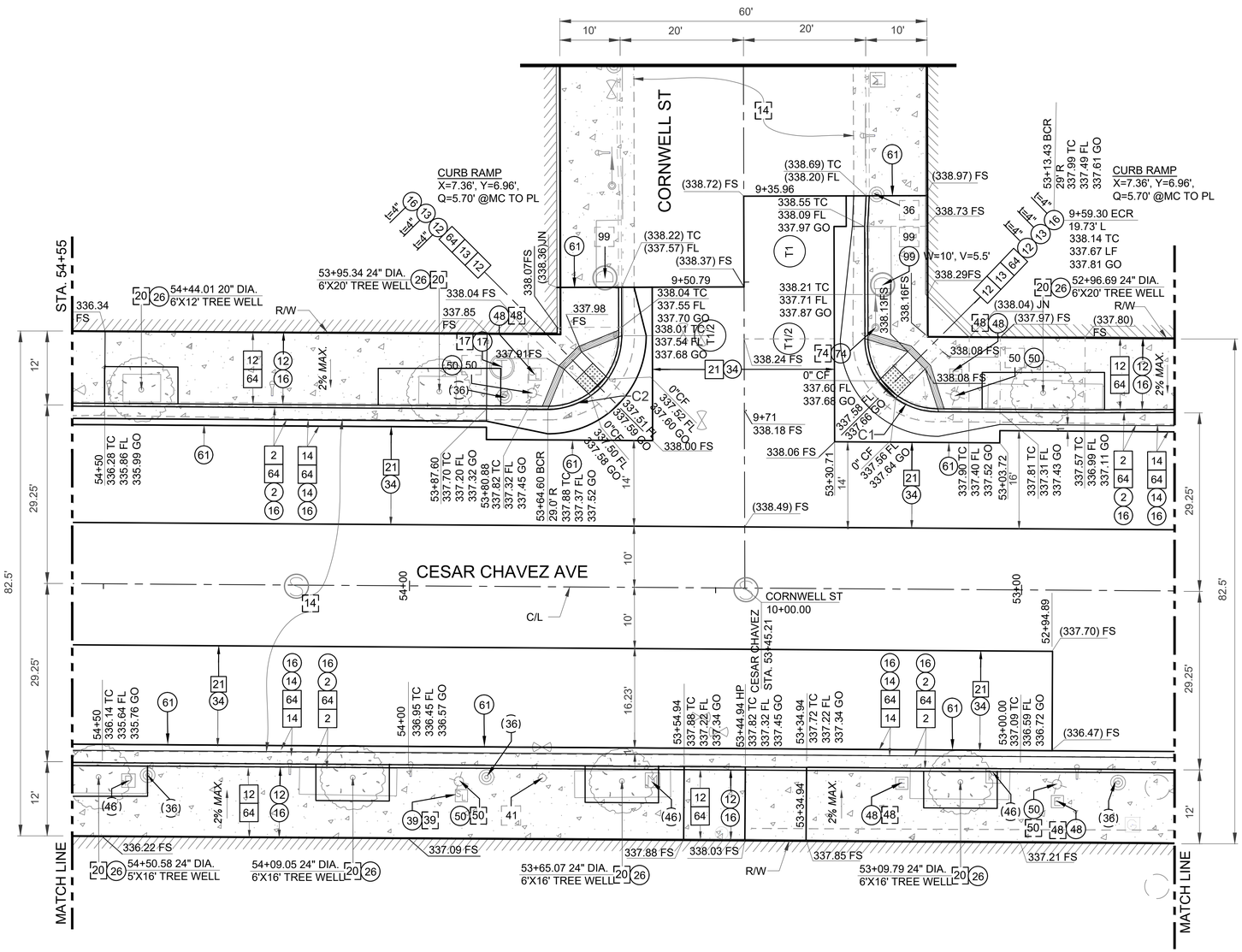

CONSTRUCTION LEGEND

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- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

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26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
37	RELOCATE AND/OR ADJUST-POLE ANCHOR	
38	RELOCATE AND/OR STREET LIGHTING PULLBOX	
39	RELOCATE AND/OR ADJUST-UTILITY/TRAFFIC BOX	
41	RELOCATE AND/OR ADJUST-FIRE HYDRANT	
46	RELOCATE AND/OR ADJUST-WATER METER	
47	RELOCATE AND/OR ADJUST-STREET SIGN	
48	RELOCATE AND/OR ADJUST-ELECTRIC PULLBOX	
49	RELOCATE AND/OR ADJUST-TRAFFIC SIGNAL	
50	RELOCATE AND/OR ADJUST-STREET LIGHT	
51	RELOCATE AND/OR ADJUST-GAS VALVE	
52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
62	REINFORCED CONCRETE RETAINING WALL	
64	UNCLASSIFIED BASE MATERIAL	
70	TELEPHONE	
86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS
BW - BACK OF WALK
CD - CURB DRAIN
FL - FLOW LINE
TC - TOP OF CURB
TW - TOP OF WALL
FS - FINISHED SURFACE
TF - TOP OF FOOTING

TREE-

PALM TREE-

NOTES:

1. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°27'30"	12.00	18.74	11.89
C2	90°32'30"	12.00	18.96	12.11

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER YAN X.I.A. BI No. C84659 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 52+75 to 54+55

DEPARTMENT OF PUBLIC WORKS

No.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP17

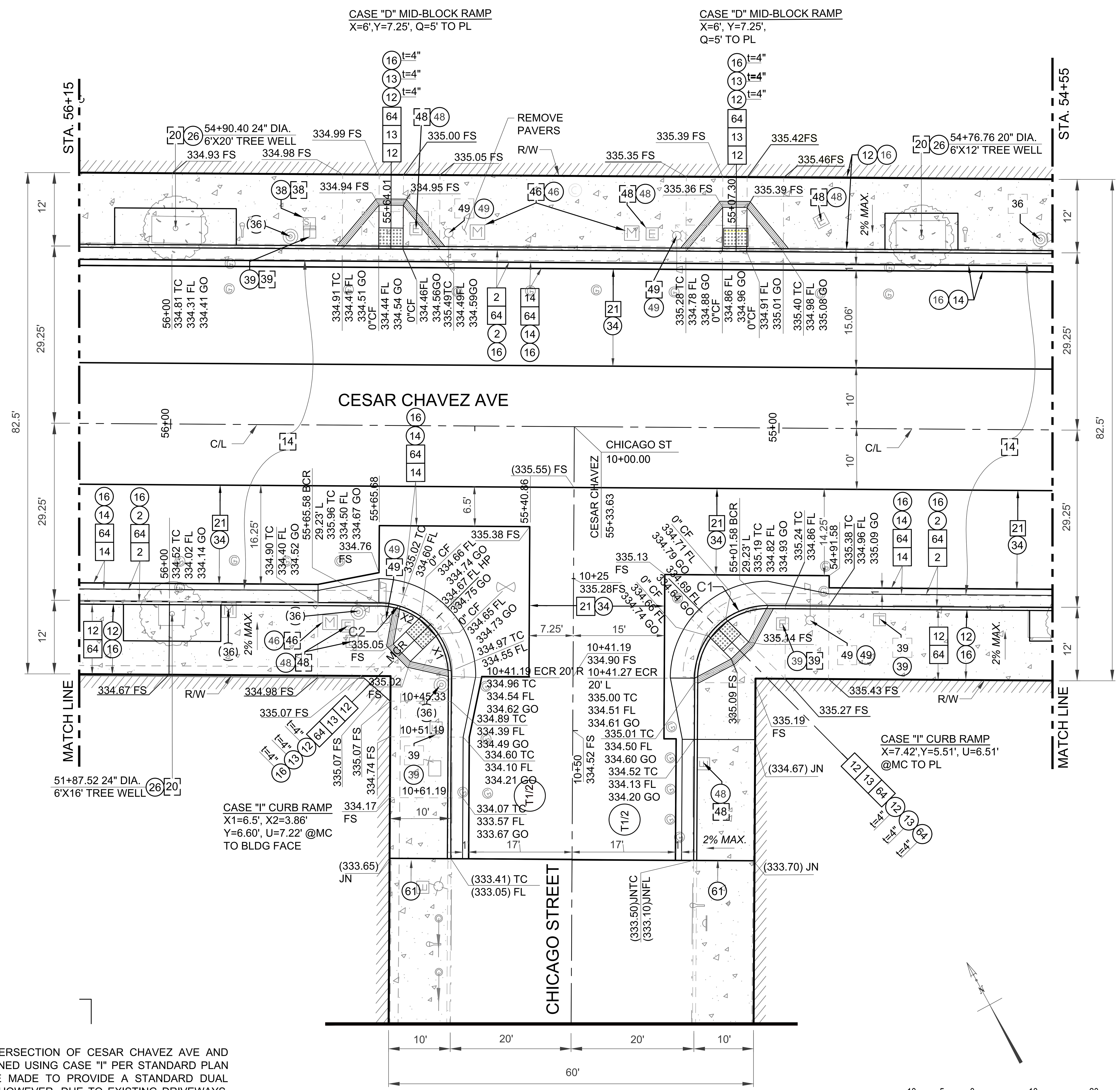
SHEET 20 OF 40 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 11:01 AM



CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
- REMOVE
- REMODEL EXISTING
- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
1	CONCRETE CURB, DETAIL 7	S-442-6
2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
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60	PARKWAY	
61	SAWCUT	S-501-0
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86	WARPED GUTTER AT CATCH BASIN	S-311-0
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181	BUS SHELTER	

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SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
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ABBREVIATIONS
- BW - BACK OF WALK
- CD - CURB DRAIN
- FL - FLOW LINE
- TC - TOP OF CURB
- TW - TOP OF WALL
- FS - FINISHED SURFACE
- TF - TOP OF FOOTING

TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	90°04'30"	12.00	18.87	12.02
C2	89°55'30"	12.00	18.83	11.98

NOTES:

1. THE CURB RAMPS AT THE INTERSECTION OF CESAR CHAVEZ AVE AND CHICAGO STREET WERE DESIGNED USING CASE "I" PER STANDARD PLAN S-442-6. ALL ATTEMPTS WERE MADE TO PROVIDE A STANDARD DUAL UNI-DIRECTIONAL CURB RAMP, HOWEVER, DUE TO EXISTING DRIVEWAYS, PRIVATE PROPERTY ENTRANCES, UTILITIES, AND OTHER EXISTING CONDITIONS, IT WAS DETERMINED DUAL UNI-DIRECTIONAL RAMPS WOULD NOT BE FEASIBLE AT THIS LOCATION.
2. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER YAN X.I.A. BI No. C84659 CIVIL STATE OF CALIFORNIA

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

CITY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING

VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN
PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.
ADDRESS: CESAR CHAVEZ STA. 54+55 to 56+15

NO. REVISIONS: DATE: BY:

CIP NO. M869

INDEX NO.

TED ALLEN, P.E. CITY ENGINEER

		DATE
DESIGN GROUP		
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP18

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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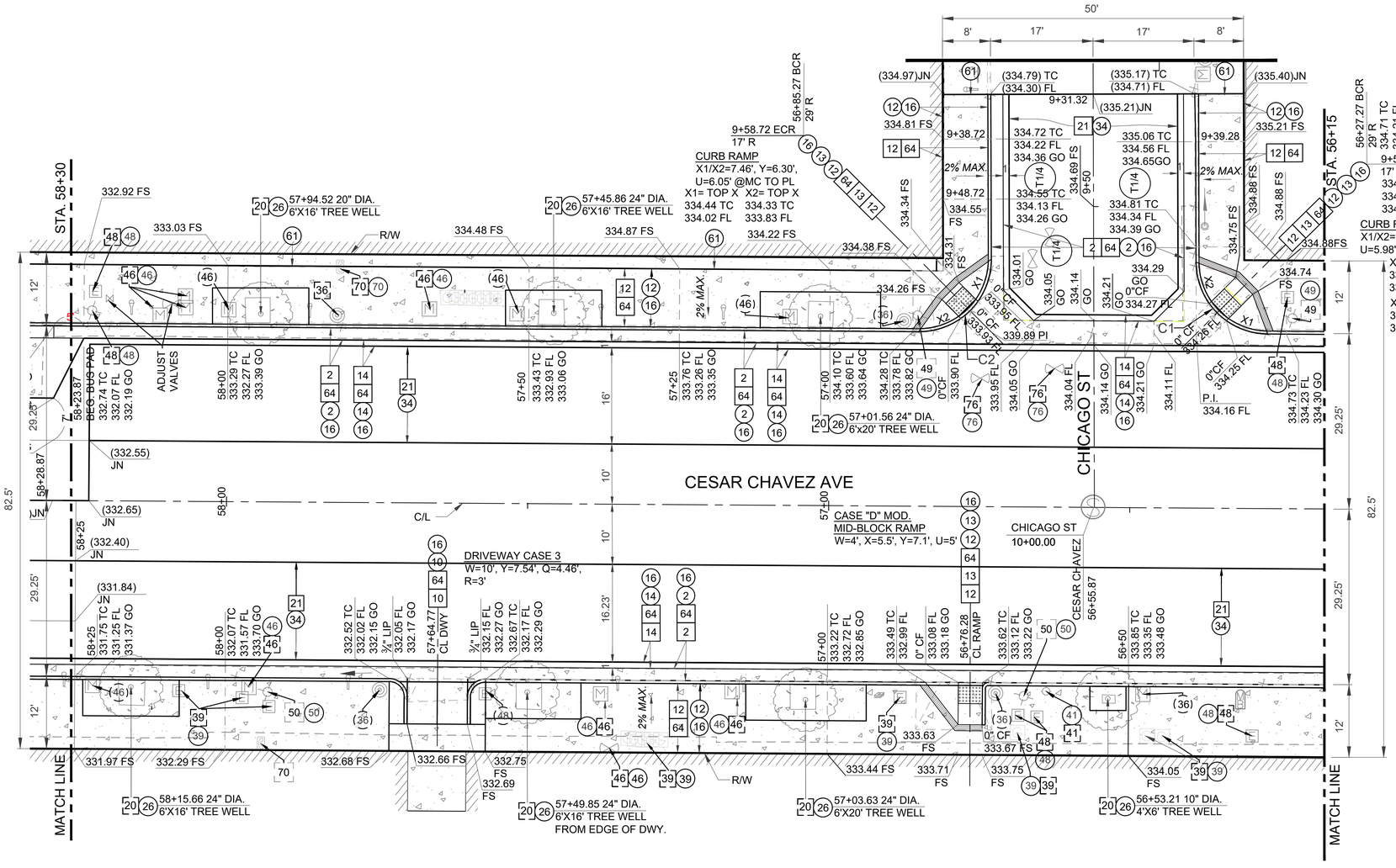

CONSTRUCTION LEGEND

- CONSTRUCT
- EXISTING
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- REMOVE & CONSTRUCT
- WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
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8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
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- LIGHT STANDARD
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NOTES:

1. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°27'00"	12.00	18.73	11.89
C2	90°33'00"	12.00	18.96	12.12

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER
YAN BI
No. 084659
CIVIL
STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 56+15 to 58+30

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP

		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP19

SHEET 22 OF 40 SHEETS

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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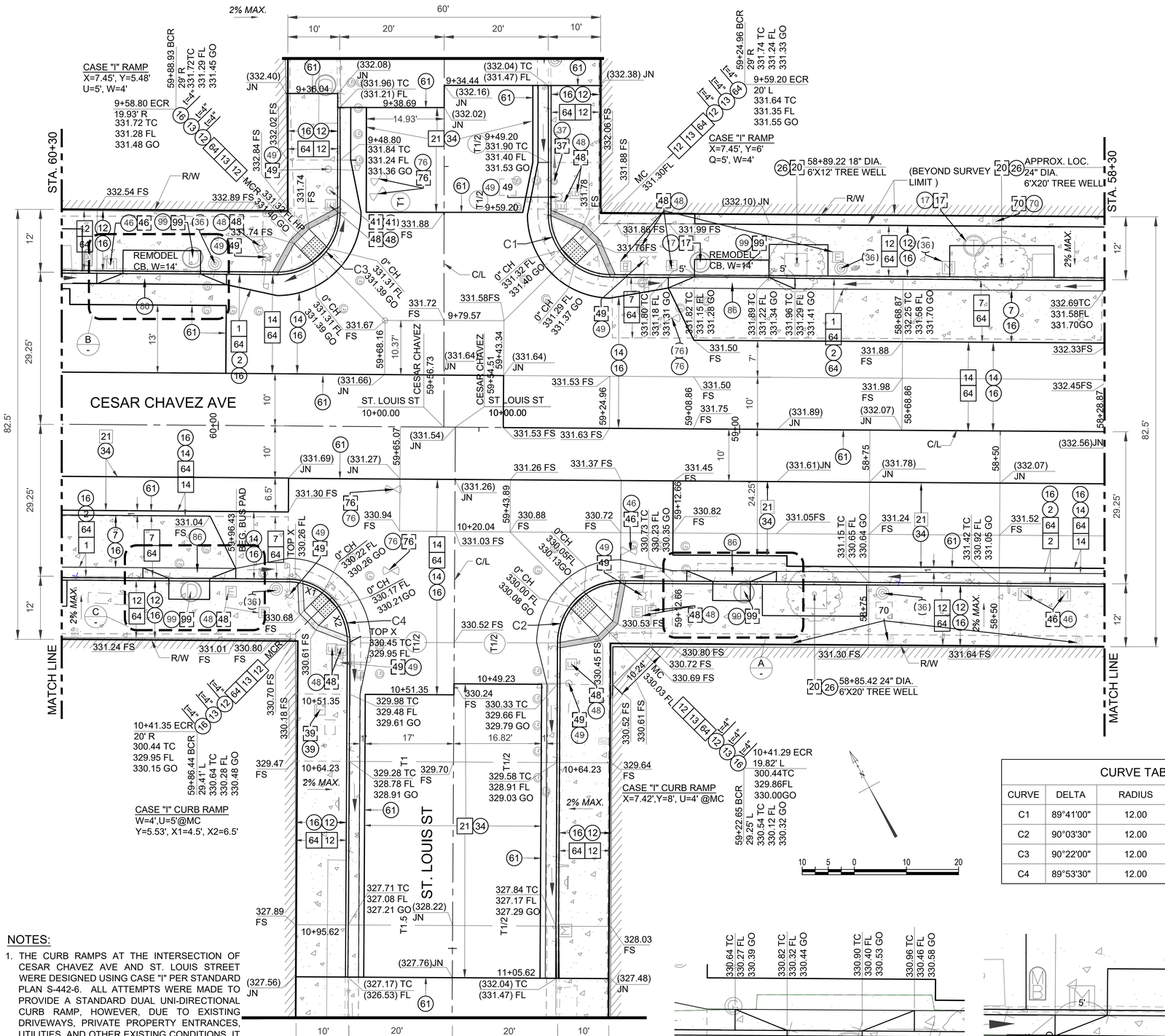

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CONSTRUCTION NOTES

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TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°41'00"	12.00	18.78	11.93
C2	90°03'30"	12.00	18.86	12.01
C3	90°22'00"	12.00	18.93	12.08
C4	89°53'30"	12.00	18.83	11.98

NOTES:

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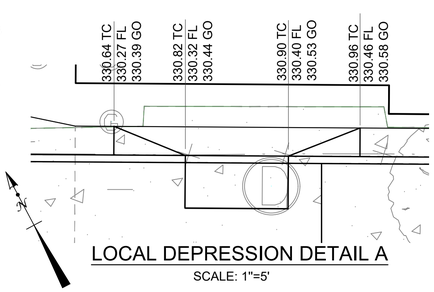
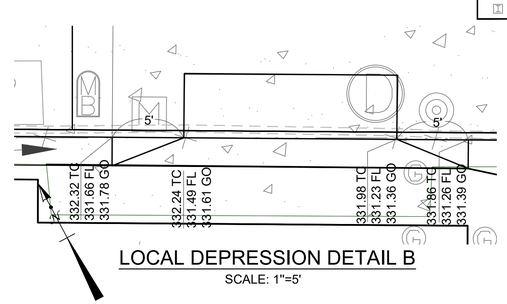
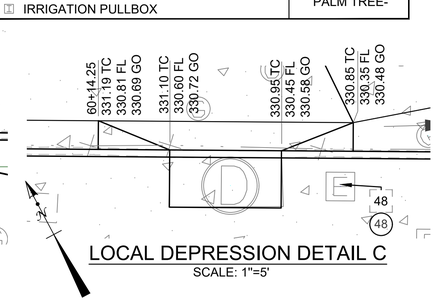


LOCAL DEPRESSION DETAIL A
SCALE: 1"=5'



LOCAL DEPRESSION DETAIL B
SCALE: 1"=5'



LOCAL DEPRESSION DETAIL C
SCALE: 1"=5'

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER YAN BI No. C84599 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 58+30 to 60+30

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.
CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP20

SHEET 23 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

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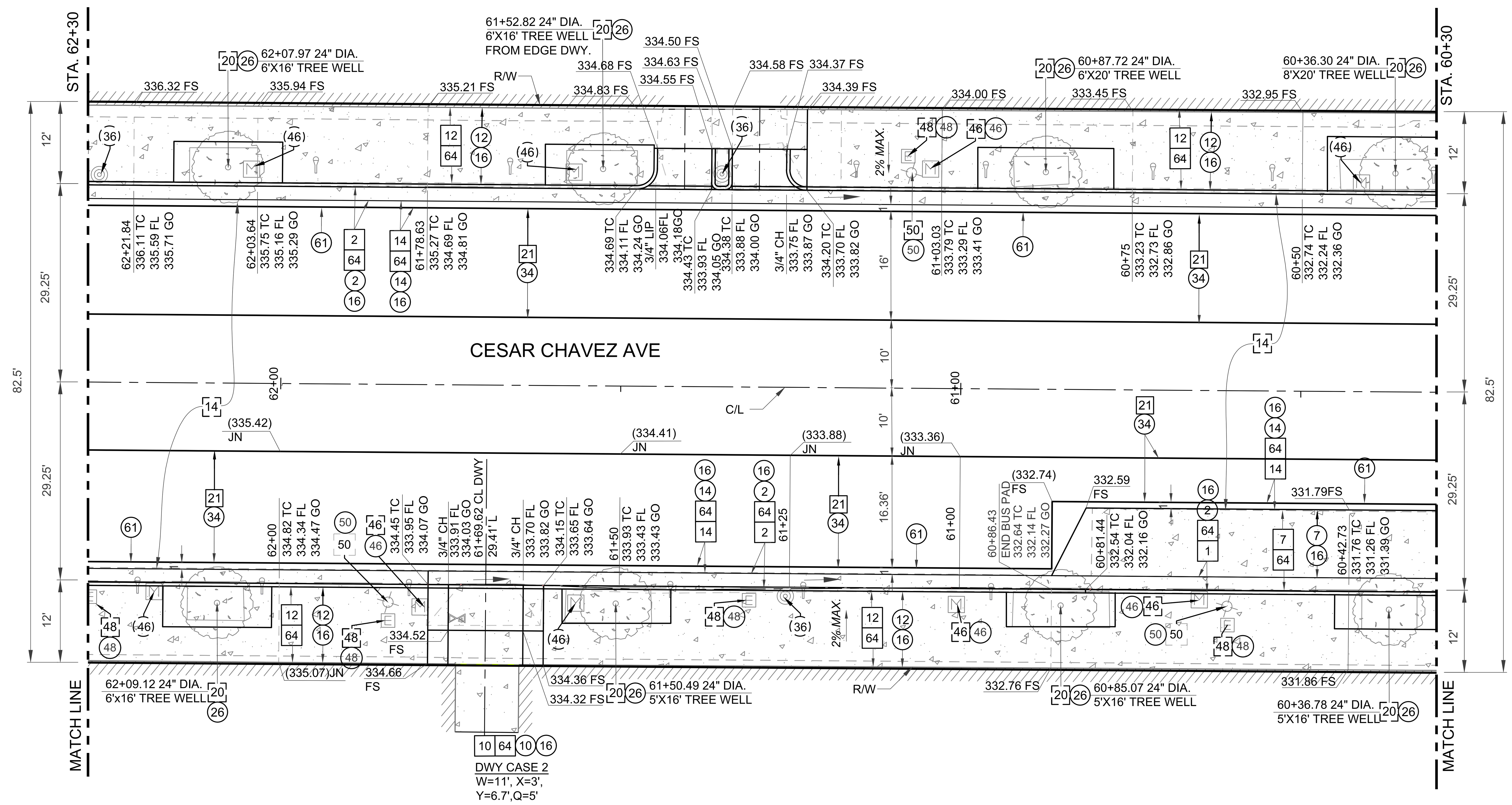

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CONSTRUCTION LEGEND

- ◯ — CONSTRUCT
- [ ] — EXISTING
- □ — REMOVE
- ◯ [ ] — REMODEL EXISTING
- □ ◯ — REMOVE & CONSTRUCT
- ( ) — WORK BY OTHERS

CONSTRUCTION NOTES

ITEM NO.	DESCRIPTION	STD. PLAN NO.
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2	TYPE C INTEGRAL CURB & GUTTER	S-410-2
4	CONCRETE GUTTER	
5	CONCRETE LONGITUDINAL GUTTER	
7	BUS PAD	S-433-1
8	CONCRETE PAVEMENT, T=6"	
10	CONCRETE DRIVEWAY, T=6" (SEE PLAN FOR W, X, & Y)	S-440-4
11	CONCRETE ALLEY INTERSECTION	
12	CONCRETE WALK, T=4"	
13	CURB RAMP	S-442-6
14	ASPHALT CONCRETE PAVEMENT	
16	CRUSHED MISC. BASE MATERIAL, T=10"	
17	ADJUST MAINTENANCE HOLE TO GRADE	
20	TREE	S-456-2
21	COLDPLANE (MILL) AC PAVEMENT	
26	TREE WELL	
34	VARIABLE THICKNESS ASPHALT CONCRETE PAVEMENT	
28	JOINT	
31	HANDRAIL	S-463-2
35	RELOCATE AND/OR ADJUST-TRAFFIC SIGN	
36	RELOCATE AND/OR ADJUST-UTILITY POLE	
37	RELOCATE AND/OR ADJUST-POLE ANCHOR	
38	RELOCATE AND/OR ADJUST STREET LIGHTING PULLBOX	
39	RELOCATE AND/OR ADJUST-UTILITY/TRAFFIC BOX	
41	RELOCATE AND/OR ADJUST-FIRE HYDRANT	
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49	RELOCATE AND/OR ADJUST-TRAFFIC SIGNAL	
50	RELOCATE AND/OR ADJUST-STREET LIGHT	
51	RELOCATE AND/OR ADJUST-GAS VALVE	
52	CONCRETE PAVERS	
53	RAILROAD TIES	
54	PLANTER AREA	
56	CONCRETE UNIT WALL	
58	BRICK WALL	
59	V-TRACK FOR SLIDING GATE	
60	PARKWAY	
61	SAWCUT	S-501-0
62	REINFORCED CONCRETE RETAINING WALL	
64	UNCLASSIFIED BASE MATERIAL	
70	TELEPHONE	
86	WARPED GUTTER AT CATCH BASIN	S-311-0
99	SIDE OPENING CATCH BASIN	S-343-1
181	BUS SHELTER	

STANDARD SYMBOLS

SANITATION
- MANHOLE
- SEWER MANHOLE

STORM WATER
- DRAIN MANHOLE

POWER
- POWER MH
- POWER POLE
- GUY WIRE
- ELEC. VENT
- ELECTRIC PULLBOX

WATER
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- IRRIGATION PULLBOX

TRAFFIC CONTROL
- LIGHT STANDARD
- TRAFFIC SIGNAL PULLBOX

GAS
- GAS VALVE

COMMUNICATIONS
- TELEPHONE MH

MISCELLANEOUS
- SIGN
- PULLBOX

ABBREVIATIONS
- BW - BACK OF WALK
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- FL - FLOW LINE
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- TW - TOP OF WALL
- FS - FINISHED SURFACE
- TF - TOP OF FOOTING

TREE-

PALM TREE-

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER YAN XIA BI No. C84659 CIVIL STATE OF CALIFORNIA

BUREAU OF ENGINEERING
DEPARTMENT OF PUBLIC WORKS
CITY OF LOS ANGELES

VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 60+30 to 62+30

CIP NO. M869

INDEX NO.

NO. | REVISIONS: | DATE: | BY:

TED ALLEN, P.E. CITY ENGINEER

	DESIGN GROUP	DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP21

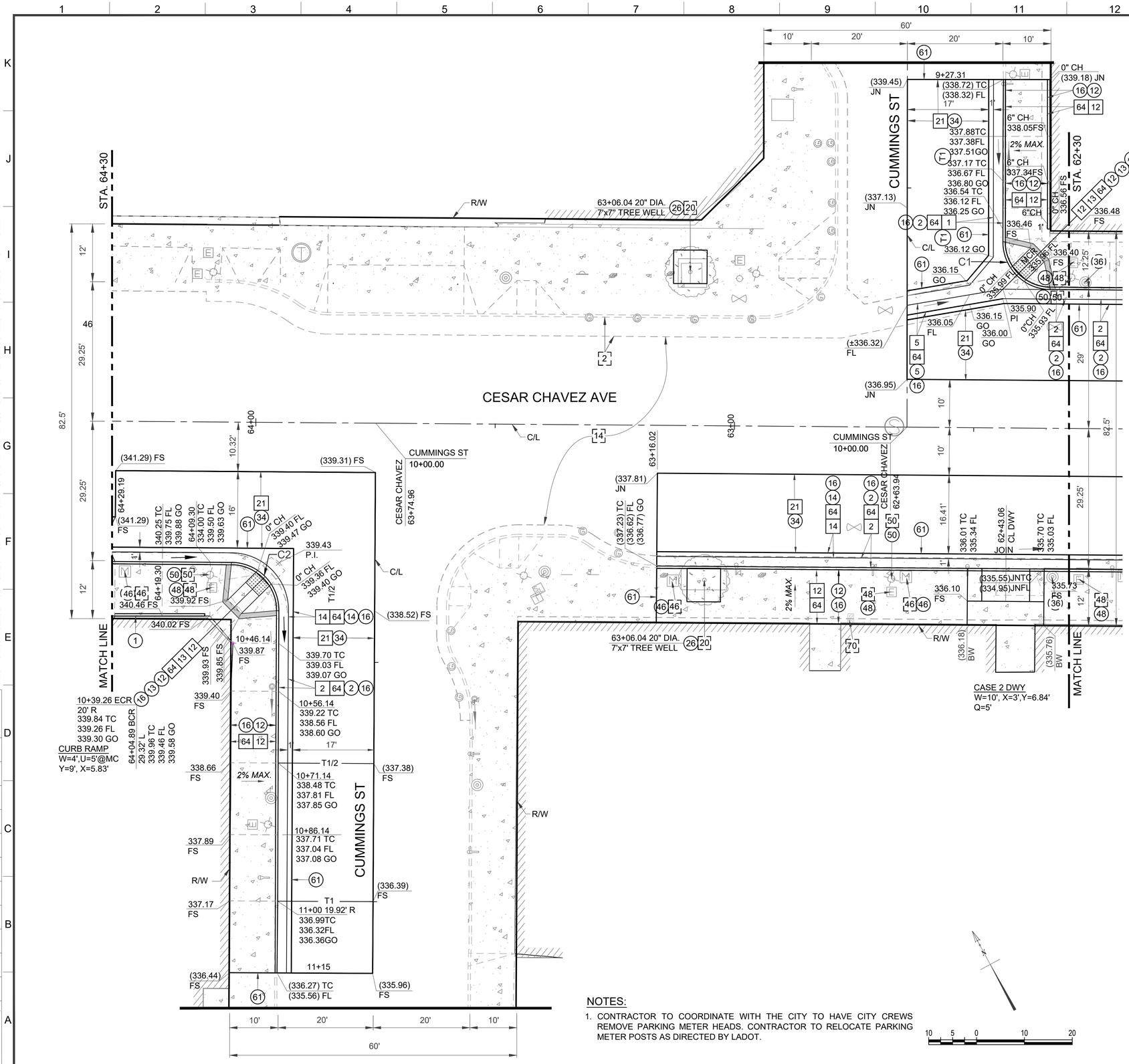
SHEET 24 OF 40 SHEETS

THE CITY OF LOS ANGELES OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 10:54 AM



CONSTRUCTION LEGEND

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TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°37'50"	10.00	15.64	9.94
C2	89°52'50"	10.00	15.69	9.98

NOTES:

1. CONTRACTOR TO COORDINATE WITH THE CITY TO HAVE CITY CREWS REMOVE PARKING METER HEADS. CONTRACTOR TO RELOCATE PARKING METER POSTS AS DIRECTED BY LADOT.

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

REGISTERED PROFESSIONAL ENGINEER X.I.A. BI No. C84699 CIVIL STATE OF CALIFORNIA

• THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED •

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REVISION DATES (DESIGN STAGE ONLY)

Sheet Version 4.0

BUREAU OF ENGINEERING
VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG81

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 62+30 to 64+30

DEPARTMENT OF PUBLIC WORKS

NO.	REVISIONS:	DATE:	BY:

CIP NO. M869

INDEX NO.

CITY OF LOS ANGELES
TED ALLEN, P.E.

CITY ENGINEER

DESIGN GROUP		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHIEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP22

SHEET 25 OF 40 SHEETS

C:\USERS\397427\BOX\SID\ATP\GREAT STREETS\CW8099_CESAR CHAVEZ AVE_WARREN ST TO EVERGREEN AVE\3DESIGN\D-2 PLANS\DESIGN\5. 100% DESIGN\CESAR CHAVEZ-EVERGREEN TO BRITANNIA_FINAL_1_MH_240326.DWG 3/26/2024 10:53 AM

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STORM WATER
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TREE-

PALM TREE-

CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	89°42'10"	12.00	18.79	11.94
C2	90°17'50"	15.00	23.64	15.08

CONSTRUCTION LEGEND

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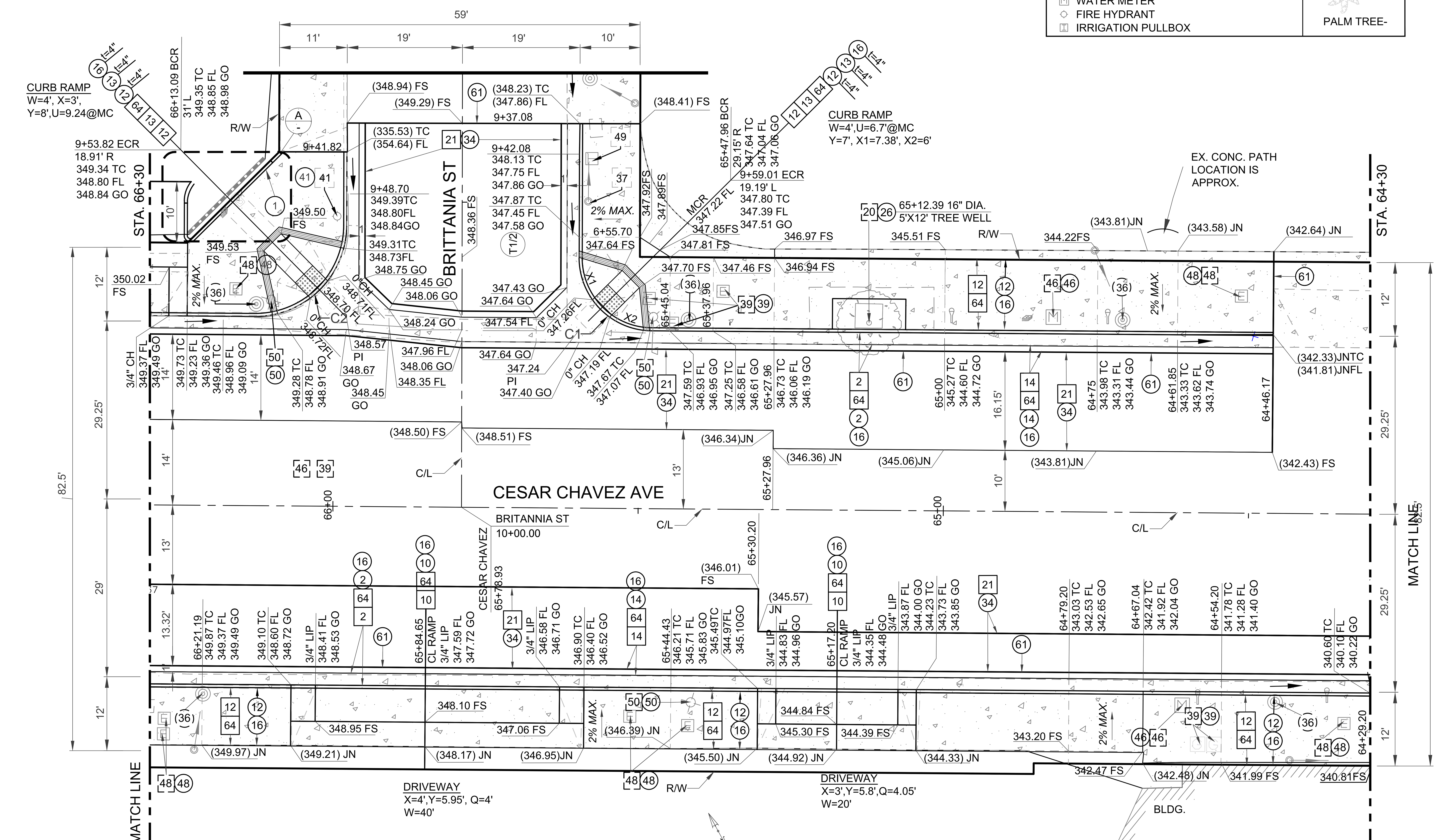

NOTES:

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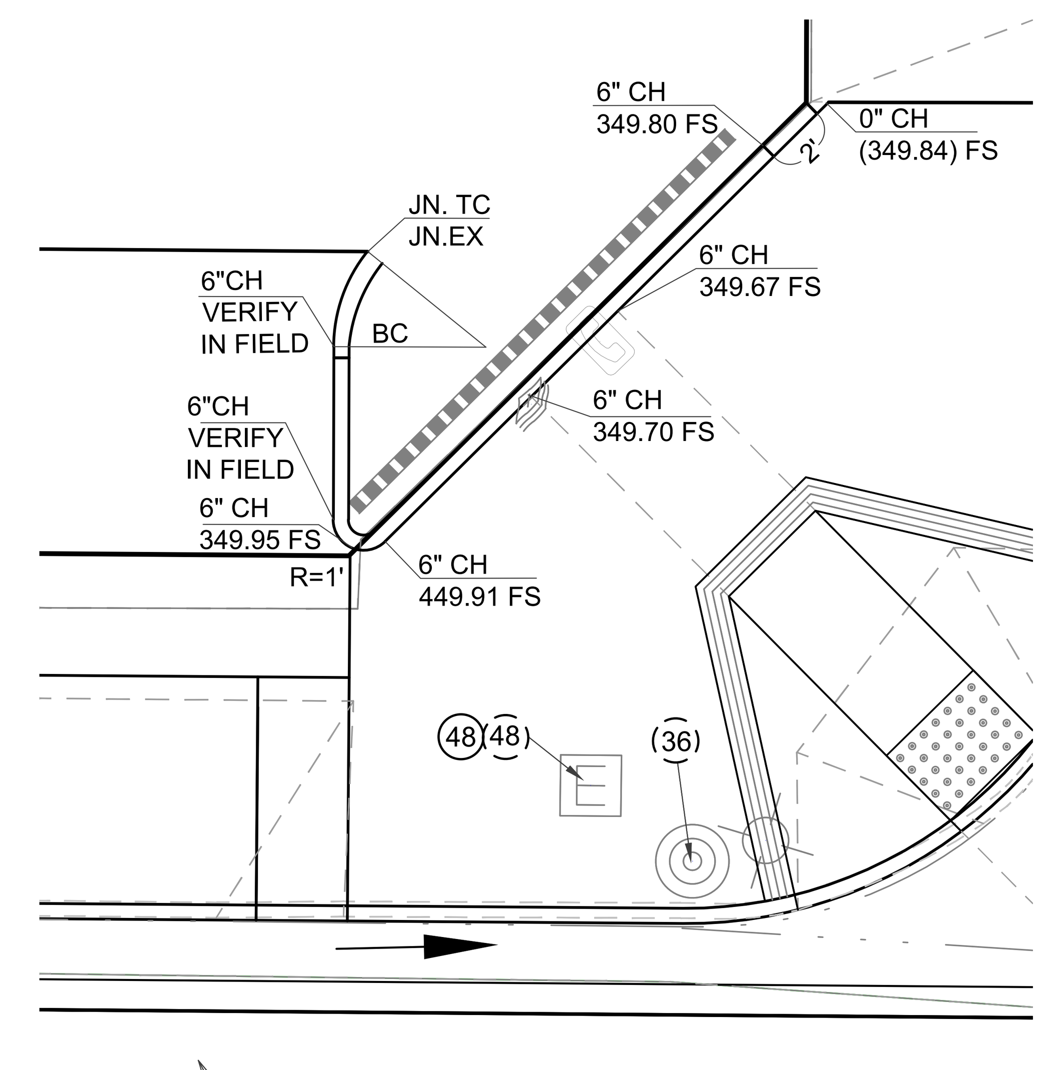
CIVIL PLAN



CESAR CHAVEZ AVE

BACK OF WALK DETAIL A

SCALE: 1'=5'

ENGINEERING
CITY OF LOS ANGELES
Street Improvement Division

THIS PLAN WAS ELECTRONICALLY SIGNED AND STAMPED

REGISTERED PROFESSIONAL ENGINEER YAN X. BI No. C84659 CIVIL STATE OF CALIFORNIA

VERTICAL CONTROL: FB 41194 PG 81
HORIZONTAL CONTROL: FB 41194 PG 81

BUREAU OF ENGINEERING

SHEET TITLE: CIVIL PLAN

PROJECT: BOYLE HEIGHTS/CESAR CHAVEZ GREAT STREETS - BRITTANIA ST. TO EVERGREEN AVE.

ADDRESS: CESAR CHAVEZ STA. 64+30 to 66+30

DEPARTMENT OF PUBLIC WORKS

CIP NO. M869

CITY OF LOS ANGELES

TED ALLEN, P.E. CITY ENGINEER

	DESIGN GROUP	DATE
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
CHECKED BY:	CHEN MIN HUANG, P.E.	03/27/24
APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP23

SHEET 26 OF 40 SHEETS

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REVISION DATES (DESIGN STAGE ONLY)

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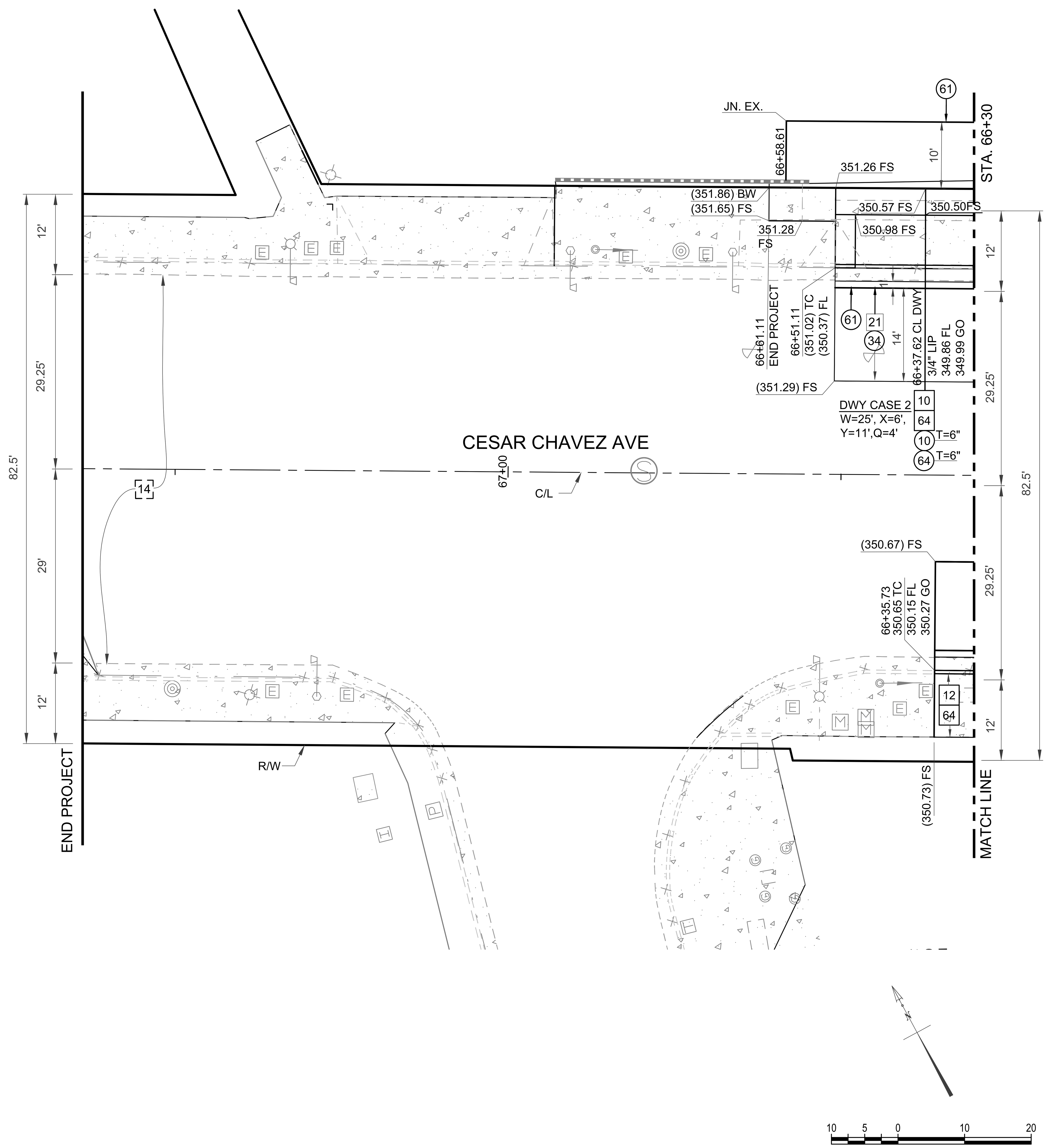

CONSTRUCTION LEGEND

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CONSTRUCTION NOTES

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ENGINEERING
CITY OF LOS ANGELES
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BUREAU OF ENGINEERING

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DEPARTMENT OF PUBLIC WORKS

NO. | REVISIONS: | DATE: | BY:

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CITY OF LOS ANGELES

TED ALLEN, P.E. CITY ENGINEER

DESIGN GROUP

		DATE:
ENGINEER:	YAN (AMY) XIA BI, P.E.	3/26/24
DESIGNED BY:	HENRY SISOMVANG, DANIEL DOUBLESIN	
DRAWN BY:	DANIEL DOUBLESIN	
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APPROVED BY:	ARSEN VOSKERCHYAN, P.E.	04/03/2024

WORK ORDER NO. E1908099

SHEET NAME CP24

SHEET 27 OF 40 SHEETS

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10:51 AM

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PED. PUSH BUT'N PHASE	REMARKS
*	(X) (1)	332 Cab.	F-332			ATSAC 2070 Controller in 332 Cab.
*	(X) (2)	CD814	F-6			
	(X) (3)	7	F-7	APS(8)	8	INSTALL APS
*	(X) (4)	1	F-1			
*	(X) (5)	CD954	F-2			
*	(X) (6)	CD814	F-6	APS(4)	4	INSTALL APS
*	(X) (7)	CD814	F-6	APS(4)	4	INSTALL APS
*	(X) (8)	1	F-1			
*	(X) (9)	CD953	BSL			
*	(X) (10)	CD814	F-6	APS(8)	8	INSTALL APS

* EXISTING
** PER LADOT STD. DWG. NO. S-52.1.6.
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL

CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
MULTI	3 CONDUCTOR CABLE 3 X #14	1					1			1			1																						
	5 CONDUCTOR CABLE 5 X #14	1						1	2			3																							
	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)																																		
	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)										1																								
	28 CONDUCTOR CABLE 27 X #14 & 1 X #10 (COM)																																		
6	SERVICE																																		
8	BONDING (GROUND)																																		
12	BUS DLC (1-PAIR)																																		
18	DLC (2 PAIR)				2	2											2	2																	
18	DLC (3 PAIR)																																		
18	DLC (4 PAIR)																																		
14	DLC (EXISTING)																																		
22	I/C (12 PAIR)																																		
14	ACCESSIBLE PEDESTRIAN SIGNAL (APS)	2	2	2			2	2	2	2	2	2	2	2																					
	CONDUIT SIZE	*	*	*	*	*	*	*	*	2"	2"	2"	1"	*	*	*	*																		

EX - EXISTING
* FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONDUCTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.

EXISTING PHASE DIAGRAM

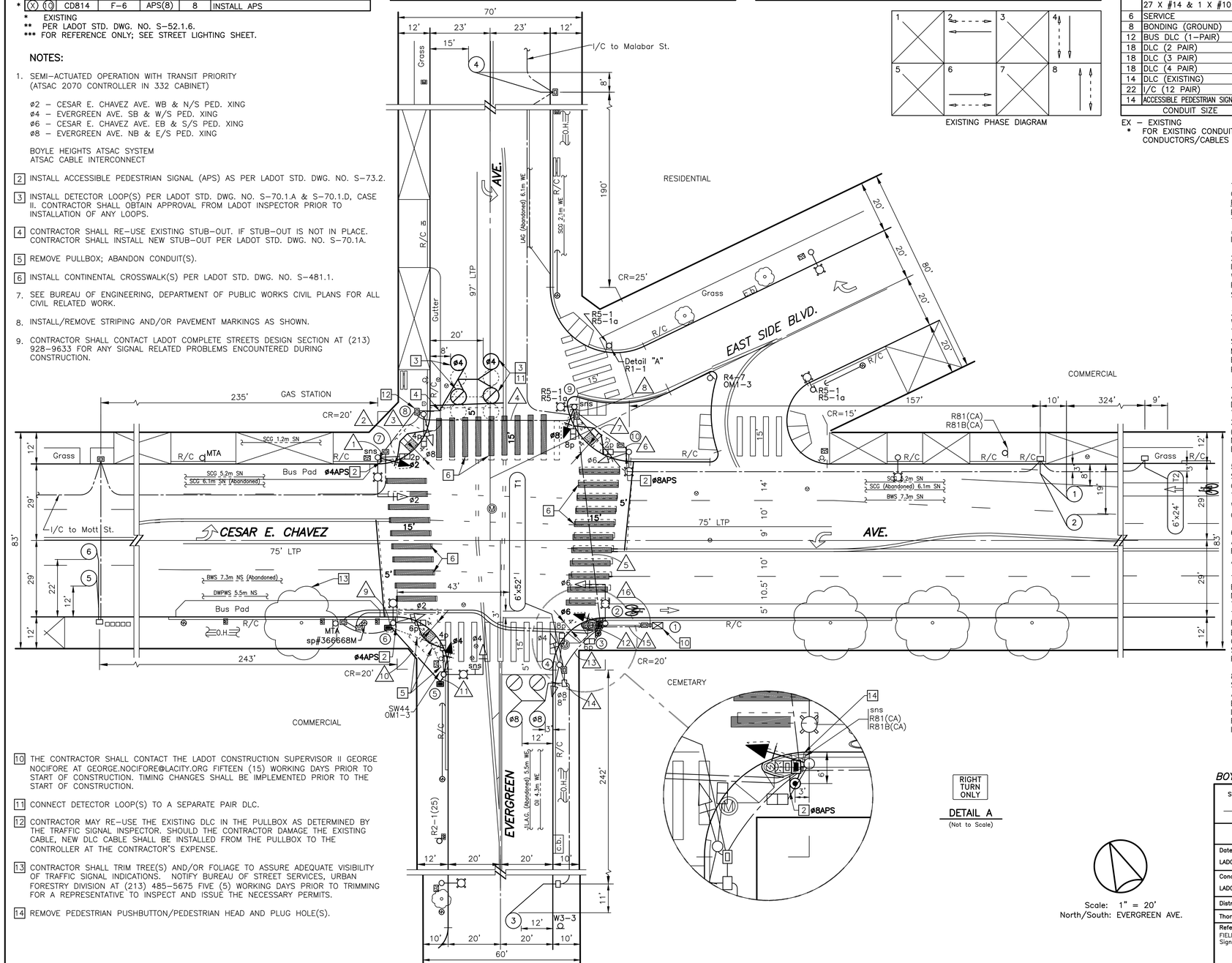
NOTES:

1. SEMI-ACTUATED OPERATION WITH TRANSIT PRIORITY (ATSAC 2070 CONTROLLER IN 332 CABINET)

   ø2 – CESAR E. CHAVEZ AVE. WB & N/S PED. XING
   ø4 – EVERGREEN AVE. SB & W/S PED. XING
   ø6 – CESAR E. CHAVEZ AVE. EB & S/S PED. XING
   ø8 – EVERGREEN AVE. NB & E/S PED. XING

   BOYLE HEIGHTS ATSAC SYSTEM
   ATSAC CABLE INTERCONNECT

2. INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.
3. INSTALL DETECTOR LOOP(S) PER LADOT STD. DWG. NO. S-70.1.A & S-70.1.D, CASE II. CONTRACTOR SHALL OBTAIN APPROVAL FROM LADOT INSPECTOR PRIOR TO INSTALLATION OF ANY LOOPS.
4. CONTRACTOR SHALL RE-USE EXISTING STUB-OUT. IF STUB-OUT IS NOT IN PLACE. CONTRACTOR SHALL INSTALL NEW STUB-OUT PER LADOT STD. DWG. NO. S-70.1A.
5. REMOVE PULLBOX; ABANDON CONDUIT(S).
6. INSTALL CONTINENTAL CROSSWALK(S) PER LADOT STD. DWG. NO. S-481.1.
7. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.
8. INSTALL/REMOVE STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN.
9. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928-9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL CONTACT THE LADOT CONSTRUCTION SUPERVISOR II GEORGE NOCIFORE AT GEORGE.NOCIFORE@LACITY.ORG FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TIMING CHANGES SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION.
11. CONNECT DETECTOR LOOP(S) TO A SEPARATE PAIR DLC.
12. CONTRACTOR MAY RE-USE THE EXISTING DLC IN THE PULLBOX AS DETERMINED BY THE TRAFFIC SIGNAL INSPECTOR. SHOULD THE CONTRACTOR DAMAGE THE EXISTING CABLE, NEW DLC CABLE SHALL BE INSTALLED FROM THE PULLBOX TO THE CONTROLLER AT THE CONTRACTOR'S EXPENSE.
13. CONTRACTOR SHALL TRIM TREE(S) AND/OR FOLIAGE TO ASSURE ADEQUATE VISIBILITY OF TRAFFIC SIGNAL INDICATIONS. NOTIFY BUREAU OF STREET SERVICES, URBAN FORESTRY DIVISION AT (213) 485-5675 FIVE (5) WORKING DAYS PRIOR TO TRIMMING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.
14. REMOVE PEDESTRIAN PUSHBUTTON/PEDESTRIAN HEAD AND PLUG HOLE(S).



DETAIL A
(Not to Scale)

RIGHT TURN ONLY

Scale: 1" = 20'
North/South: EVERGREEN AVE.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485-1071 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473-8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AND ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473-8478 BEFORE 9:00 A.M. ON NON-HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216-4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473-8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS
FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928-9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR. EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S-457.0 AND S-486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473-7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1-1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED April 6 20 23
Rajesh Gaur
Transportation Engineer

APPROVED April 7, 20 23
John Varghese
Senior Transportation Engineer

AS BUILT
Date of Installation:
LADOT Inspector:
Condition As Of:
LADOT Engineer:
District CENTRAL
Thomas Guide 635 C5
References
FIELD
Signal: 01160-S1.DWG

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & EVERGREEN AVE.

File Name	Intersection No.	Project No.
01160-2022.DWG	01160	PROPC000

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

		BY	DATE
SUPERVISOR		KM	12-19-22
DESIGNER		FK	11-15-22
SR. DRAFTING		---	-
DRAFTING		LY	03-30-23
FIELD		FK	09-16-22
BASE		LY	03-03-22

		BY	DATE
TIMING		EZ	02-09-23
DISTRICT		KP	03-30-23
GEOMETRIC			
ATSAC			
METRO RAIL			

NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE

SCALES HORIZ. 1"= VERT. 1"=

SHEET 28 OF 40

INDEX NUMBER

(LADOT Revised 8/14)
(Drafting Std. 11/04)

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PED. PUSH BUT'N PHASE	REMARKS
**	(X) (1)	17-3-100	CIDH	APP	–	INSTALL APP; INSTALL 15' M.A.
***	(X) (2)	CD953C	BSL	APP	–	INSTALL APP
	(X) (3)					
	(X) (4)					
	(X) (5)					
	(X) (6)					
	(X) (7)					
	(X) (8)					
	(X) (X)					

* EXISTING
** PER LADOT STD. DWG. NO. S-52.1.6
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL
2	CONTROLLER CABINET
2	SOLAR PANEL
2	RECTANGULAR RAPID FLASHING BEACON

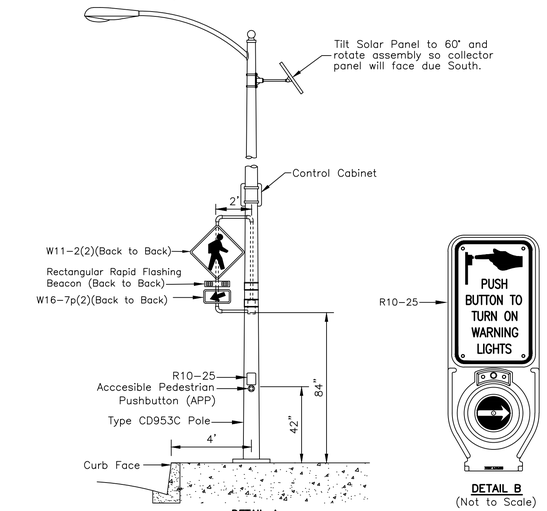
CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	RUN 2
MULTI	3 CONDUCTOR CABLE 3 X #14	E	E
	5 CONDUCTOR CABLE 5 X #14	M	M
	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)	P	P
	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)	T	T
	28 CONDUCTOR CABLE 27 X #18 & 1 X #16 (COM)	Y	Y
6	SERVICE		
8	BONDING (GROUND)		
12	BUS DLC (1-PAIR)		
18	DLC (2 PAIR)		
18	DLC (3 PAIR)		
18	DLC (4 PAIR)		
14	DLC (EXISTING)		
22	I/C (12 PAIR)		
14	ACCESSIBLE PEDESTRIAN SIGNAL (APS)		
	CONDUIT SIZE	2"	2"

NOTE: FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONTRACTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.

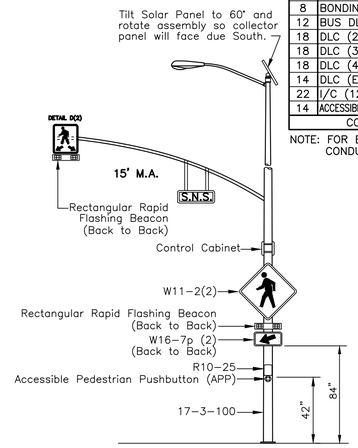
NOTES:

1. RECTANGULAR RAPID FLASHING BEACON (RRFB) PEDESTRIAN-ACTUATED.
2. INSTALL CONTINENTAL CROSSWALK(S) PER LADOT STD. DWG. NO. S-481.1.
3. INSTALL/REMOVE SIGN(S), OR SIGN(S) AND POST AS SHOWN.
4. INSTALL RECTANGULAR RAPID FLASHING BEACON AND ASSEMBLY B SIGNS AS PER DETAIL A OR DETAIL C.
5. INSTALL ACCESSIBLE PEDESTRIAN PUSHBUTTON (APP) AS PER DETAIL B. SEE LADOT SPECIFICATIONS.
6. CONTRACTOR SHALL TRIM TREE(S) AND/OR FOLIAGE TO ASSURE ADEQUATE VISIBILITY OF TRAFFIC SIGNAL INDICATIONS. NOTIFY BUREAU OF STREET SERVICES, URBAN FORESTRY DIVISION AT (213) 485-5675 FIVE (5) WORKING DAYS PRIOR TO TRIMMING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.
7. SEE STREET LIGHTING SHEET FOR WORK STREET LIGHTING FACILITIES.
8. INSTALL/REMOVE STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN.

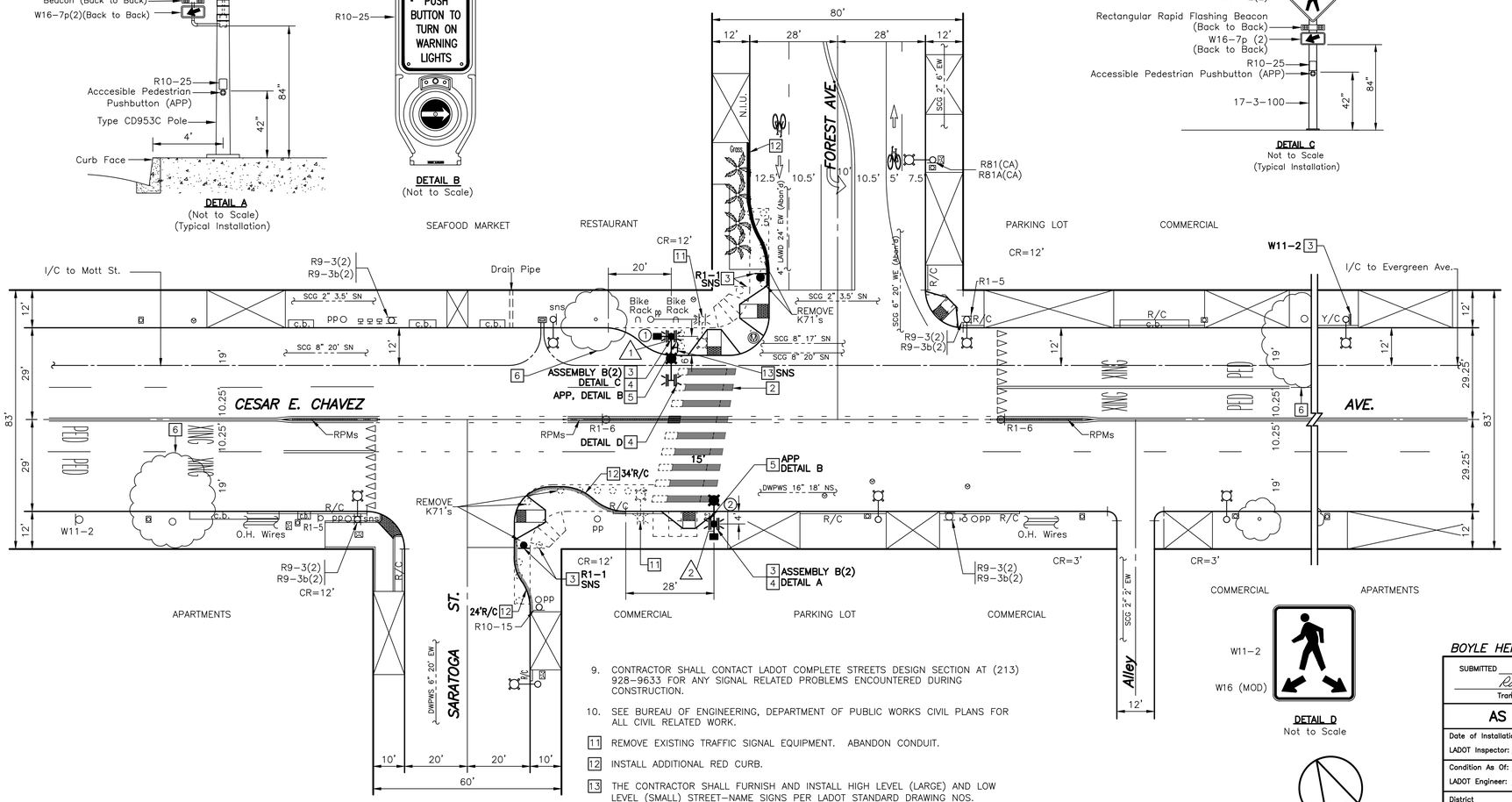


DETAIL A
(Not to Scale)
(Typical Installation)

DETAIL B
(Not to Scale)



DETAIL C
Not to Scale
(Typical Installation)



DETAIL D
Not to Scale

Scale: 1" = 20'
North/South: FOREST AVE.

9. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928-9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.
10. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.
11. REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT. ABANDON CONDUIT.
12. INSTALL ADDITIONAL RED CURB.
13. THE CONTRACTOR SHALL FURNISH AND INSTALL HIGH LEVEL (LARGE) AND LOW LEVEL (SMALL) STREET-NAME SIGNS PER LADOT STANDARD DRAWING NOS. S-457.0, S-486.0, S-221.3 AND S-438.0. IF LARGE STREET-NAME SIGN IS INSTALLED ON SIGNAL POLE STANDARD, USE SIGNFIX CHANNELING MOUNT WITH UNIVERSAL CLAMP SX0220. IF LARGE STREET-NAME SIGN IS INSTALLED ON TYPE 1 OR 1A POLE, USE LADOT SIGNAL SADDLE BRACKET AND GUIDE.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS, ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485-1071 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473-8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AN'D ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473-8478 BEFORE 9:00 A.M. ON NON-HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216-4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473-8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928-9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR, EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S-457.0 AND S-486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473-7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1-1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.

NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE

	BY	DATE
SUPERVISOR	KM	12-05-22
DESIGNER	FK	11-08-22
SR. DRAFTING	---	–
DRAFTING	RDF/LY	05-11-23
FIELD	FK	08-15-22
BASE	RDF	11-07-22

	BY	DATE
TIMING	KP	03/30/23
DISTRICT		
GEOMETRIC		
ATSAC		
METRO RAIL		

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED May 18 20 23
Rajesh Gaur
Transportation Engineer

APPROVED May 18, 2023
John Varghese
Senior Transportation Engineer

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

AS BUILT
Date of Installation:
LADOT Inspector:
Condition As Of:
LADOT Engineer:
District CENTRAL
Thomas Guide 635 B5
References
FIELD CHECK
PROJ-TGF14004

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & FOREST AVE.

File Name	Intersection No.	Project No.
01164-2022.DWG	01164	PROPC000

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

SCALES HORIZ. 1"= VERT. 1"=

SHEET 29 OF 40

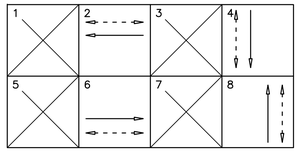
INDEX NUMBER

(LADOT Revised 8/14)
(Drafting Std. 11/04)

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH TYPE	BUT'N PHASE	REMARKS
*	(X) (1)	332 Cab.	F-332			ATSAC 2070 Controller in Ex. 332 Cab.
*	(X) (2)	CD814	BSL	APS(4P)	4	INSTALL APS
*	(X) (3)	1	F-1			
*	(X) (4)	1	F-1			
	(X) (5)	7	F-7	APS(8P)	8	INSTALL APS
*	(X) (6)	CD814	BSL			
*	(X) (7)	CD814	BSL	APS(8P)	8	INSTALL APS
*	(X) (8)	1	F-1			
*	(X) (9)	1	F-1			
*	(X) (10)	CD814	BSL	APS(4P)	4	INSTALL APS

* EXISTING
** PER LADOT STD. DWG. NO. S-52.1.6
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.



EXISTING PHASE DIAGRAM

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL

NOTES:

1. SEMI-ACTUATED OPERATION WITH TRANSIT PRIORITY (ATSAC 2070 CONTROLLER IN 332 CABINET)

   ø2 – CESAR E. CHAVEZ AVE. WB & N/S PED. XING
   ø4 – MOTT ST. SB & W/S PED. XING
   ø6 – CESAR E. CHAVEZ AVE. EB & S/S PED. XING
   ø8 – MOTT ST. NB & E/S PED. XING

   BOYLE HEIGHTS ATSAC SYSTEM
   ATSAC CABLE INTERCONNECT

2. REMOVE PEDESTRIAN PUSHBUTTON. INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.

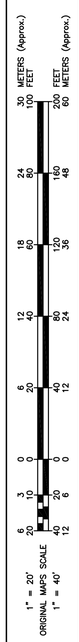
3. INSTALL CONTINENTAL CROSSWALK(S) PER LADOT STD. DWG. NO. S-481.1.

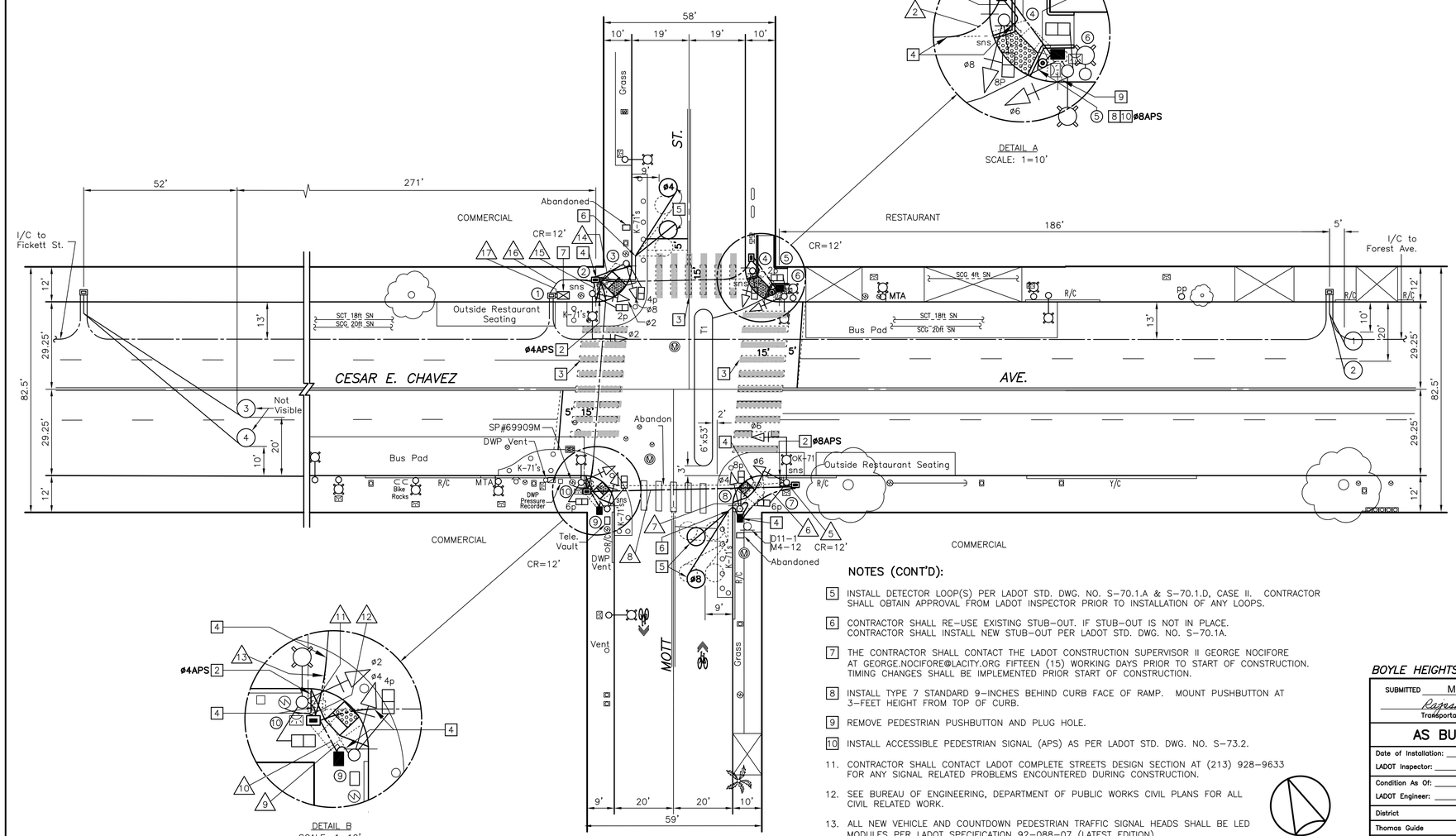
4. JOIN AND EXTEND CONDUIT(S) INTO PULLBOX.

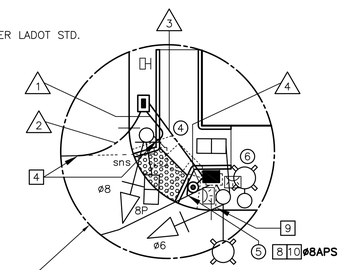
CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
MULTI	3 CONDUCTOR CABLE 3 X #14			1	1					1				1																											
	5 CONDUCTOR CABLE 5 X #14	2			3		2		2		2			2	2																											
	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)																																								
	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)		1							1				1																											
	28 CONDUCTOR CABLE 27 X #18 & 1 X #16 (COM)	1					1						1			1	1																								
6	SERVICE									1	1																														
8	BONDING (GROUND)																																								
12	BUS DLC (1-PAIR)																																								
18	DLC (2 PAIR)					1		1						1			2	2																							
18	DLC (3 PAIR)																																								
18	DLC (4 PAIR)																																								
14	DLC (EXISTING)																																								
22	I/C (12 PAIR)																																								
14	ACCESSIBLE PEDESTRIAN SIGNAL (APS)	1		1	1	1	1		1	1	1				1	1																									
	CONDUIT SIZE	2"	3"	2"	1"	*	*	2"	3"	2"	2"	*	*	3"	2"	*	*	*																								

NOTE: FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONTRACTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.







DETAIL A
SCALE: 1=10'

DETAIL B
SCALE: 1=10'

NOTES (CONT'D):

5. INSTALL DETECTOR LOOP(S) PER LADOT STD. DWG. NO. S-70.1.A & S-70.1.D, CASE II. CONTRACTOR SHALL OBTAIN APPROVAL FROM LADOT INSPECTOR PRIOR TO INSTALLATION OF ANY LOOPS.

6. CONTRACTOR SHALL RE-USE EXISTING STUB-OUT. IF STUB-OUT IS NOT IN PLACE. CONTRACTOR SHALL INSTALL NEW STUB-OUT PER LADOT STD. DWG. NO. S-70.1A.

7. THE CONTRACTOR SHALL CONTACT THE LADOT CONSTRUCTION SUPERVISOR II GEORGE NOCIFORE AT GEORGE.NOCIFORE@LACITY.ORG FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TIMING CHANGES SHALL BE IMPLEMENTED PRIOR START OF CONSTRUCTION.

8. INSTALL TYPE 7 STANDARD 9-INCHES BEHIND CURB FACE OF RAMP. MOUNT PUSHBUTTON AT 3-FEET HEIGHT FROM TOP OF CURB.

9. REMOVE PEDESTRIAN PUSHBUTTON AND PLUG HOLE.

10. INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.

11. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928-9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.

12. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.

13. ALL NEW WIRELESS COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL HEADS SHALL BE LED MODULES PER LADOT SPECIFICATION 92-088-07 (LATEST EDITION).

Scale: 1" = 20'
North/South: MOTT ST.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS, ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485-6834 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473-8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-6790 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AN'D ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473-8478 BEFORE 9:00 A.M. ON NON-HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216-4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473-8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928-9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR. EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S-457.0 AND S-486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473-7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1-1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED May 8 20 23
Rajesh Gaur
Transportation Engineer

APPROVED May 9, 20 23
John Varghese
Senior Transportation Engineer

AS BUILT
Date of Installation:
LADOT Inspector:
Condition As Of:
LADOT Engineer:
District CENTRAL
Thomas Guide 635 B5

References
PROJECT NO. 74119, BHAS117C.dwg
01170-S1.DWG
FIELD CHECK

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & MOTT ST.

File Name	Intersection No.	Project No.
01170-2022.DWG	01170	PROPC000

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

NO.	REVISION DESCRIPTION	DATE	BY
	SUPERVISOR		
	DESIGNER		
	SR. DRAFTING		
	DRAFTING		
	FIELD		
	BASE		
	DIV./DIST. ENGR.		

	DATE	BY
TIMING	01-10-23	KM
DISTRICT	12-14-22	CH
GEOMETRIC	---	---
ATSAC	4-25-23	RDF
METRO RAIL	8-18-22	CH
	02-16-22	RDF

	DATE	BY
TIMING	3-03-23	EZ
DISTRICT	3-19-23	KP
GEOMETRIC		
ATSAC		
METRO RAIL		

SCALES HORIZ. 1"= VERT. 1"=

SHEET 30 OF 40

INDEX NUMBER

(LADOT Revised 8/14)

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PED. PUSH BUT'N PHASE	REMARKS
*	(X) (1)	332 CAB.	F–332			ATSAC 2070 Controller in 332 Cabinet
*	(X) (2)	9	F–1			
*	(X) (3)	1	F–1	APS(4P)	4	INSTALL APS
*	(X) (4)	17–3–100	CIDH	APS(4P)	4	INSTALL APS
*	(X) (5)	1	F–1	APS(8P)	8	INSTALL APS
**	(X) (6)	16–3–100	CIDH	APS(8P)	8	INSTALL APS
*	(X) (7)	9	F–1			

* EXISTING
** PER LADOT STD. DWG. NO. S–52.1.6.
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL

CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
MULTI	3 CONDUCTOR CABLE 3 X #14					1																														
	5 CONDUCTOR CABLE 5 X #14	1		1		3																														
	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)																																			
	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)		1				1																													
	28 CONDUCTOR CABLE 27 X #18 & 1 X #16 (COM)				1			1	1																											
6	SERVICE						1	1	1	1																										
8	BONDING (GROUND)																																			
12	BUS DLC (1–PAIR)																																			
18	DLC (2 PAIR)				1			1	1																											
18	DLC (3 PAIR)																																			
18	DLC (4 PAIR)																																			
14	DLC (EXISTING)																																			
22	I/C (12 PAIR)																																			
14	ACCESSIBLE PEDESTRIAN SIGNAL (APS)					1																														
	CONDUIT SIZE	*	*	*	3"	2"	2"	*	*	3"																										

EX – EXISTING
* FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONDUCTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.

NOTES:

1. SEMI–ACTUATED OPERATION WITH TRANSIT PRIORITY (ATSAC 2070 CONTROLLER IN 332 CABINET)

   ø2 – CESAR E. CHAVEZ AVE. WB
   ø4 – W/S PED. XING
   ø6 – CESAR E. CHAVEZ AVE. EB & S/S PED. XING
   ø8 – FICKETT ST. NB E/S PED. XING

   BOYLE HEIGHTS ATSAC SYSTEM
   ATSAC CABLE INTERCONNECT

2. INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S–73.2.

3. RELOCATE SIGN(S), OR SIGN(S) AND POST(S) AS SHOWN.

4. INSTALL SIGN(S), OR SIGN(S) AND POST(S) AS SHOWN.

5. CONTRACTOR SHALL TRIM TREE(S) AND/OR FOLIAGE TO ASSURE ADEQUATE VISIBILITY OF TRAFFIC SIGNAL INDICATIONS. NOTIFY BUREAU OF STREET SERVICES, URBAN FORESTRY DIVISION AT (213) 485–5675 FIVE (5) WORKING DAYS PRIOR TO TRIMMING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS, ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485–6834 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473–8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485–6790 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

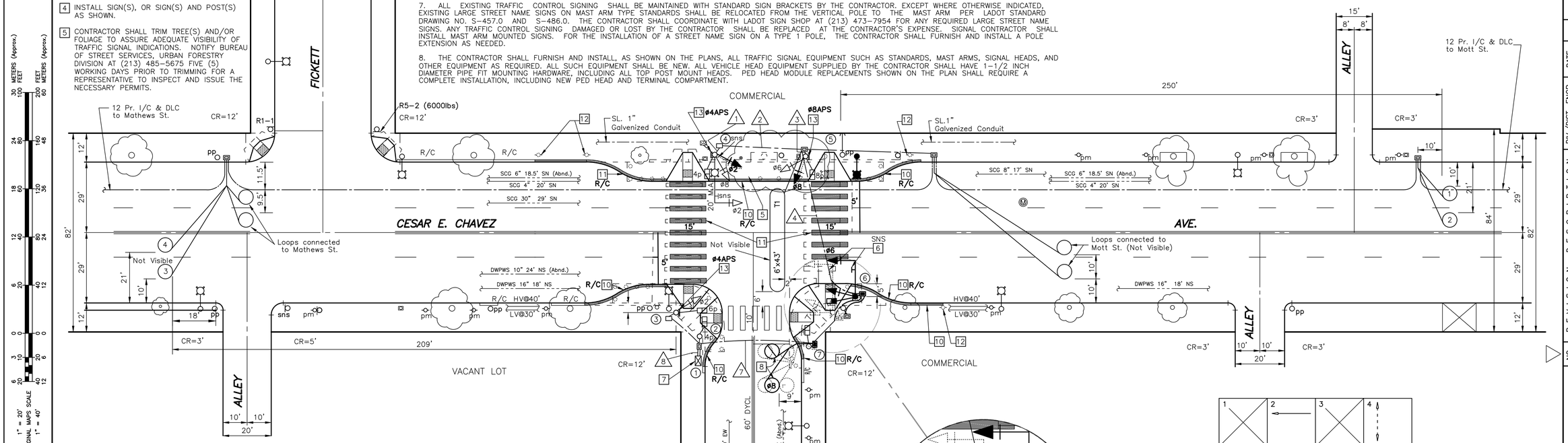
4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AN'D ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473–8478 BEFORE 9:00 A.M. ON NON–HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216–4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473–8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928–9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR. EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S–457.0 AND S–486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473–7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1–1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.



6 RELOCATE STREET–NAME SIGN TO NEW MAST ARM/STANDARD.

7 THE CONTRACTOR SHALL CONTACT THE LADOT CONSTRUCTION SUPERVISOR II GEORGE NOCIFORE AT GEORGE.NOCIFORE@LACITY.ORG FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TIMING CHANGES SHALL BE IMPLEMENTED PRIOR THE START OF CONSTRUCTION.

8 INSTALL DETECTOR LOOP(S) PER LADOT STD. DWG. NO. S–70.1.A & S–70.1.D, CASE II. CONTRACTOR SHALL OBTAIN APPROVAL FROM LADOT INSPECTOR PRIOR TO INSTALLATION OF ANY LOOPS.

9 JOIN AND EXTEND CONDUIT(S) INTO PULLBOX.

10 INSTALL ADDITIONAL RED CURB.

11 INSTALL CONTINENTAL CROSSWALK(S) PER LADOT STD. DWG. NO. S–481.1.

12 CONTRACTOR SHALL CONTACT LADOT METER PLANNING AT (213) 473–8270 WITHIN TEN (10) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR THE INSTALLATION/REMOVAL OF PARKING METER(S)/PARKING STALL(S) BY LADOT.

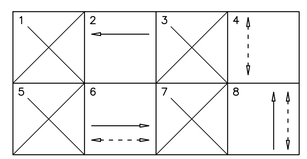
13 REMOVE PEDESTRIAN PUSHBUTTON. INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S–73.2.

14. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928–9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.

15. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.

16. ALL NEW VEHICLE AND COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL HEADS SHALL BE LED MODULES PER LADOT SPECIFICATION 92–088–07 (LATEST EDITION).

17. INSTALL/REMOVE STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN.



EXISTING PHASE DIAGRAM

Scale: 1" = 20'
North/South: FICKETT ST.

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED June 8 20 23
Rajesh Gaur
Transportation Engineer

APPROVED June 8, 2023
Senior Transportation Engineer

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

AS BUILT
Date of Installation:
LADOT Inspector:
Condition As Of:
LADOT Engineer:
District CENTRAL
Thomas Guide 635 B4
References
FIELD
Signal: 01172–S1.DWG

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & FICKETT ST.

File Name	Intersection No.	Project No.
01172–2022.DWG	*01172*	*PROPC000*

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

SCALES	HORIZ. 1"=
	VERT. 1"=

SHEET 31 OF 40

INDEX NUMBER

NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE

	BY	DATE
SUPERVISOR	KM	12–06–22
DESIGNER	CH	12–01–22
SR. DRAFTING	––	–
DRAFTING	LY	06–06–23
FIELD	CH	08–16–22
BASE	LY	03–04–22

	BY	DATE
TIMING	EZ	03–03–23
DISTRICT GEOMETRIC	KP	06–01–23
ATSAC		
METRO RAIL		

(LADOT Revised 8/14)
(Drafting Std. 11/04)

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PED. PUSH BUT'N PHASE	REMARKS
*	(X) (1)	332 Cab.	F-332	–	–	ATSAC 2070 Controller in 332 Cabinet
*	(X) (2)	CD814	BSL	**APS(4P)**	**4**	**INSTALL APS**
*	(X) (3)	CD814	BSL	–	–	15' M.A.
	(X) (4)	**7**	**F-7**	**APS(4P)**	**4**	**INSTALL APS**
	(X) (5)	**7**	**F-7**	**APS(4P)**	**4**	**INSTALL APS**
*	(X) (6)	1	F-1	–	–	SEE NOTES 6 & 7
*	(X) (7)	CD814	BSL	–	–	15' M.A.
	(X) (8)	**7**	**F-7**	**APS(4P)**	**4**	**INSTALL APS**
	(X) (X)			–	–	

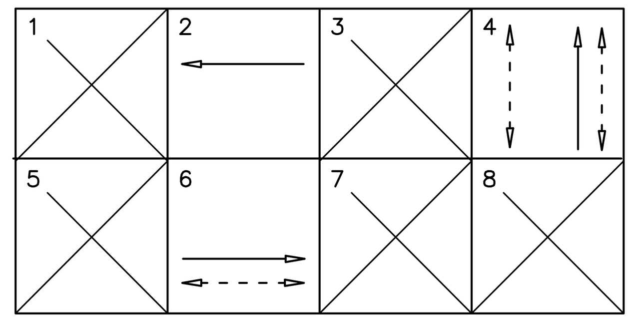
* Existing
** Per LADOT Std. Dwg. No. S-52.1.6
*** See Street Lighting Sheet for work on Street Lighting Facilities

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL



EXISTING PHASE DIAGRAM

NOTES:

1. SEMI-ACTUATED OPERATION WITH TRANSIT PRIORITY
   (ATSAC 2070 CONTROLLER IN 332 CAB)

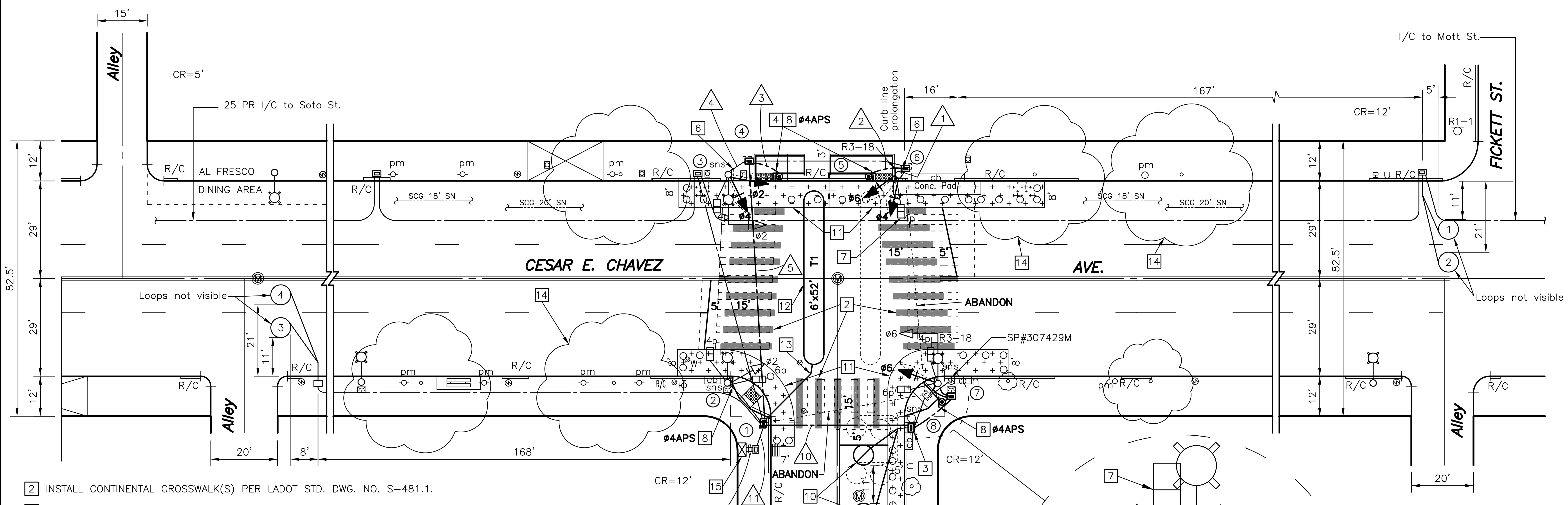
   ø2 – CESAR E. CHAVEZ AVE. W/B
   ø4 – MATHEWS ST. N/B & PED XINGS
   ø6 – CESAR E. CHAVEZ AVE. E/B & S/S PED. XING

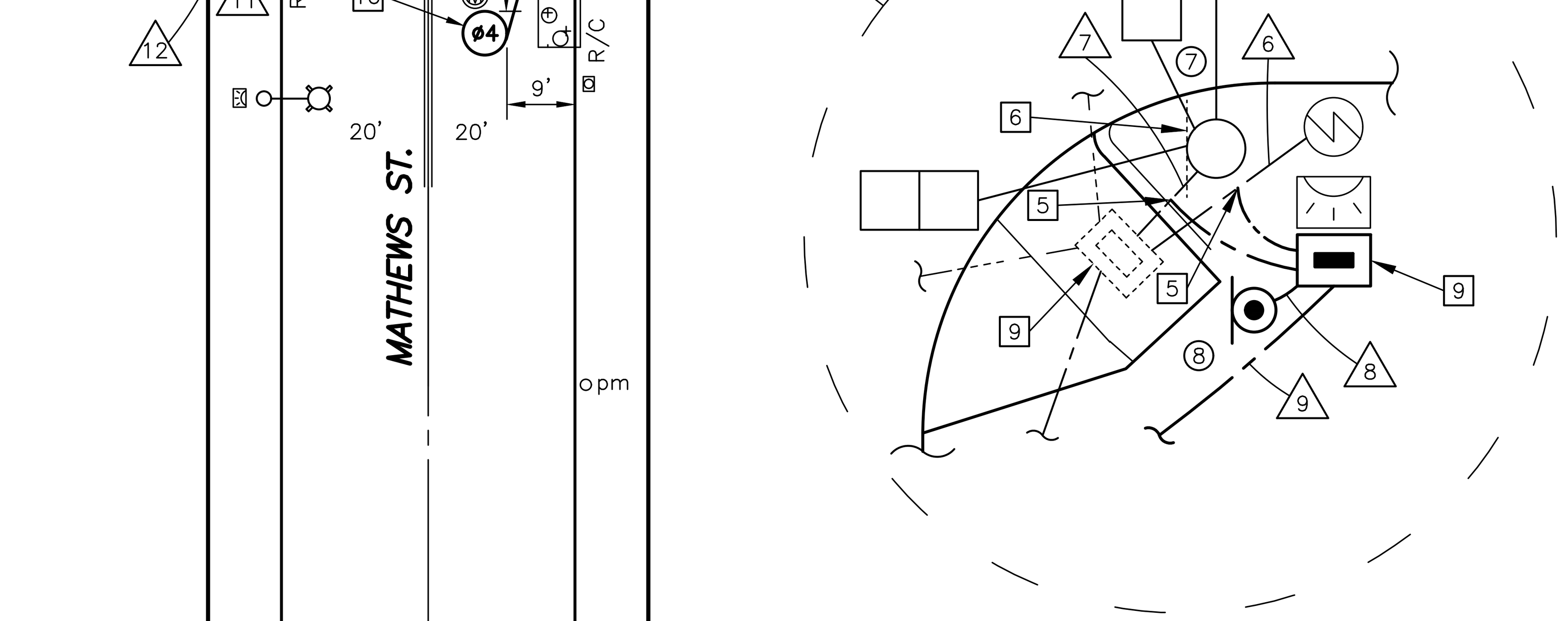
   BOYLE HEIGHTS ATSAC SYSTEM
   ATSAC CABLE INTERCONNECT

CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
MULTI	3 CONDUCTOR CABLE 3 X #14		1	1					1																											
MULTI	5 CONDUCTOR CABLE 5 X #14							4																												
MULTI	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)																																			
MULTI	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)																																			
MULTI	28 CONDUCTOR CABLE 27 X #18 & 1 X #16 (COM)					1					1																									
6	SERVICE						3				3	3	3																							
8	BONDING (GROUND)																																			
12	BUS DLC (1-PAIR)											1	1																							
18	DLC (2 PAIR)									1	1	1	1																							
18	DLC (3 PAIR)																																			
18	DLC (4 PAIR)																																			
14	DLC (EXISTING)																																			
22	I/C (12 PAIR)																																			
	ACCESSIBLE PEDESTRIAN SIGNAL (APS)	1	1	1	1			1	1																											
	CONDUIT SIZE	*	1"	1"	*	3"	*	2"	1"	2"	3"	*	*																							

NOTE: FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONTRACTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.





ORIGINAL MAPS SCALE 1" = 20' / 1" = 40'

[2] INSTALL CONTINENTAL CROSSWALK(S) PER LADOT STD. DWG. NO. S-481.1.

[3] CONTRACTOR SHALL RE-USE EXISTING STUB-OUT. IF STUB-OUT IS NOT IN PLACE, CONTRACTOR SHALL INSTALL NEW STUB-OUT PER LADOT STD. DWG. NO. S-70.1A.

[4] INSTALL TYPE 7 STANDARD 9-INCHES BEHIND CURB FACE OF RAMP. MOUNT PUSHBUTTON AT 3-FEET HEIGHT FROM TOP OF CURB.

[5] REMOVE PULLBOX; JOIN AND EXTEND CONDUIT(S) INTO PULLBOX.

[6] REMOVE PEDESTRIAN PUSHBUTTON/PEDESTRIAN HEAD AND PLUG HOLE(S).

[7] CONTRACTOR TO ROTATE PED HEAD TO ALIGN WITH NEW CROSSWALK.

[8] INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.

[9] REPLACE EXISTING FUSE WITH 60-AMP FUSE IN AN IN-LINE WATERPROOF FUSE HOLDER. WORK ON ANY ELECTRICAL SERVICE EQUIPMENT TO BE DONE IN CONJUNCTION WITH DEPARTMENT OF WATER & POWER (DWP) PERSONNEL. CONTACT DWP AT (213) 367-9966 SEVEN (7) WORKING DAYS PRIOR TO BEGINNING WORK ON THE SERVICE LINE.

[10] INSTALL DETECTOR LOOP(S) PER LADOT STD. DWG. NO. S-70.1A. CONTRACTOR SHALL OBTAIN APPROVAL FROM LADOT INSPECTOR PRIOR TO INSTALLATION OF ANY LOOPS.

[11] REINSTALL PAINTED BUMP-OUTS WITH K71's, RED PAINT, STRIPING & PAVEMENT MARKINGS PER LADOT GEOMETRIC DESIGN DWG. NO. A-6935.

[12] INSTALL TRANSIT PRIORITY LOOP(S) PER LADOT STD. DWG. NO. S-70.1F. CONTRACTOR SHALL OBTAIN APPROVAL FROM LADOT INSPECTOR PRIOR TO INSTALLATION OF ANY LOOPS.

[13] CONTRACTOR SHALL INSTALL NEW EXTENDED STUB-OUT PER LADOT STD. DWG. NO. S-70.1A.

[14] CONTRACTOR SHALL TRIM TREE(S) AND/OR FOLIAGE TO ASSURE ADEQUATE VISIBILITY OF TRAFFIC SIGNAL INDICATIONS. NOTIFY BUREAU OF STREET SERVICES, URBAN FORESTRY DIVISION AT (213) 485-5675 FIVE (5) WORKING DAYS PRIOR TO TRIMMING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.

[15] THE CONTRACTOR SHALL CONTACT THE LADOT CONSTRUCTION SUPERVISOR II GEORGE NOCIFORE AT GEORGE.NOCIFORE@LACITY.ORG FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TIMING CHANGES SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION.

10' 20' 20' 10'
60'

16. ABANDON AND DISCONNECT DETECTOR LOOP(S) IN PULLBOX AS SHOWN.
17. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.
18. INSTALL/REMOVE STRIPING AND/OR PAVEMENT MARKINGS AS SHOWN.
19. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928-9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS, ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485-1071 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473-8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

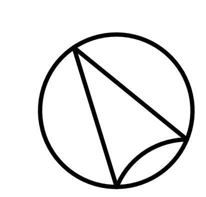
4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AN'D ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473-8478 BEFORE 9:00 A.M. ON NON-HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216-4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473-8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928-9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR. EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S-457.0 AND S-486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473-7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1-1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.



Scale: 1" = 20'
North/South: MATHEWS ST.

DATE	BY	
11-12-22	EZ	TIMING
12-20-22	KP	DISTRICT
		GEOMETRIC
		ATSAC
		METRO RAIL

	BY	DATE
SUPERVISOR	KM	11-08-22
DESIGNER	MK	11-08-22
SR. DRAFTING	--	-
DRAFTING	RFD	11-07-22
FIELD	MK	10-04-22
BASE	RDF	03-04-22

NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED April 17 20 23 — Rajesh Gaur — Transportation Engineer
APPROVED April 18, 20 23 — J. Varghese — Senior Transportation Engineer

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

AS BUILT
Date of Installation: ______
LADOT Inspector: ______
Condition As Of: ______
LADOT Engineer: ______
District CENTRAL
Thomas Guide 635 B4
References: FIELD; CIVIL PLAN E1908099 CP11; PROJECT NO. 74119, BHAS114C.dwg; 01180-S1.dwg

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & MATHEWS ST.

File Name	Intersection No.	Project No.
01180-2022.DWG	01180	PROPC000

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

SCALES HORIZ. 1"= VERT. 1"=

INDEX NUMBER

(LADOT Revised 8/14)
(Drafting Std. 11/04)

1/23/2023 10:04 AM File: C:\VaultWorkingFolder\Complete Streets\Boyle Heights Cesar Chavez\01180-2022.dwg Last Saved: 1/23/2023 9:58 AM By: 406667

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PED. PUSH BUT'N PHASE	REMARKS
*	(1)	332 Cab.	F-332	–	–	ATSAC 2070 Controller in 332 Cab.
*	(2)	19-1-70	CIDH	APS(8P)	–	Custom 15' Mast Arm; Install APS
	(3)	7	F-7	APS(2P)	–	Install APS
***	(4)	CD953	BSL	–	–	
**	(5)	17-3-100	CIDH	APS(2P)	–	Install 20' M.A.; Install APS
	(6)	1	F-1	APS(4P)	–	Install APS
*	(7)	337 Cab.	F-8	–	–	Auxillary Video Cabinet
*	(8)	19-1-70	CIDH	–	–	Custom 15' Mast Arm
	(9)	7	F-7	APS(4P)	–	Install APS
*	(10)	C-1	CIDH	APS(6P)	–	Video Camera with 6' Arm; Install APS
*	(11)	CD954	F-2	APS(6P)	–	Install APS
*	(12)	CD953	BSL	APS(8P)	–	Install APS

* EXISTING
** PER LADOT STD. DWG. NO. S-52.1.6.
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.

NOTES:

1. PRE-TIMED OPERATION WITH ATSAC CAMERA AND TRANSIT PRIORITY (ATSAC 2070 CONTROLLER IN 332 CABINET)

   ø2 – SOTO ST. S/B & W/S PED. XING.
   ø4 – CESAR E. CHAVEZ AVE. W/B & N/S PED. XING.
   ø6 – SOTO ST. N/B & E/S PED. XING.
   ø8 – CESAR E. CHAVEZ AVE. E/B & S/S PED. XING.

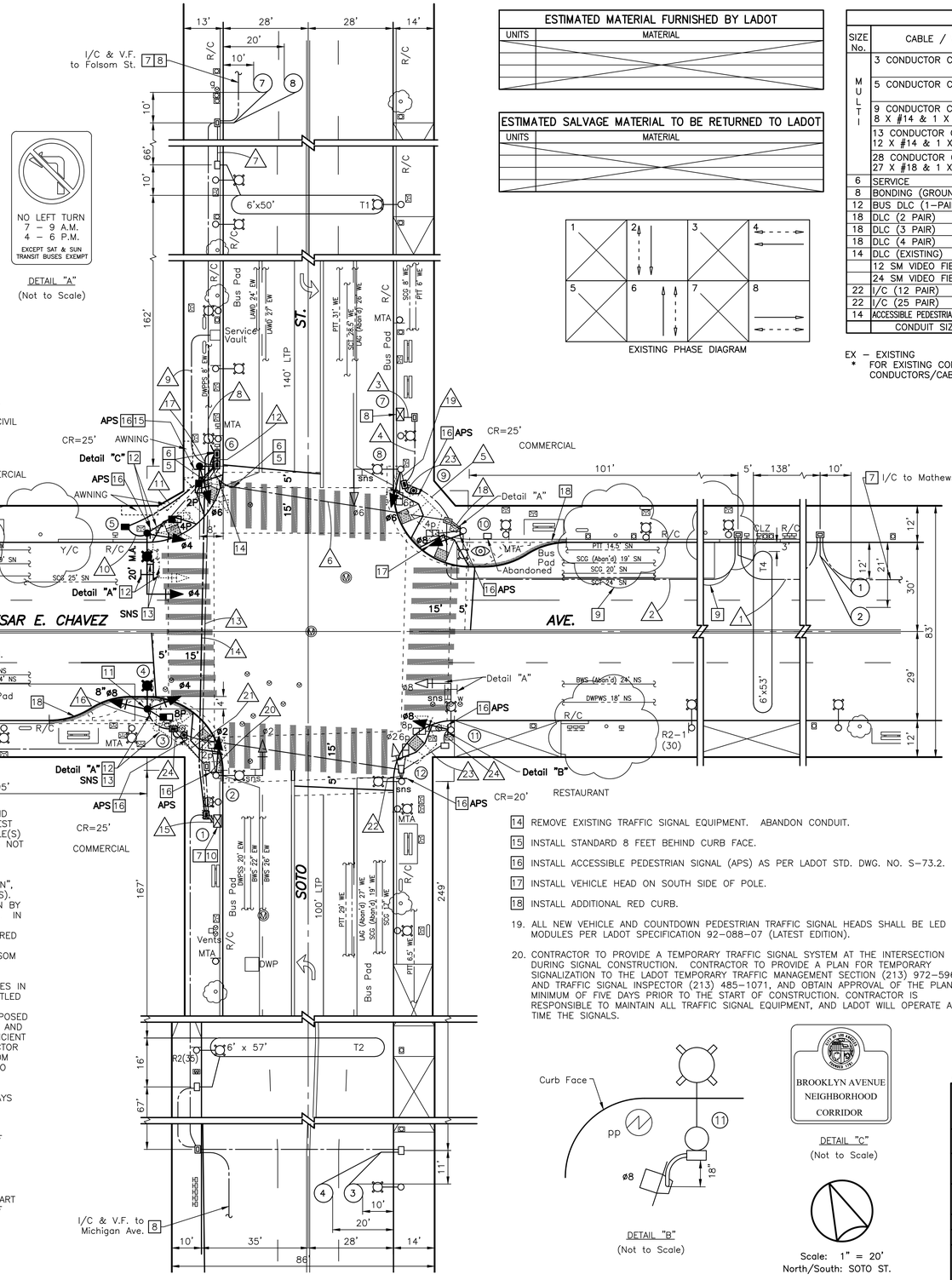
   BOYLE HEIGHTS ATSAC SYSTEM
   ATSAC CABLE INTERCONNECT

2. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928-9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.

3. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.

4. INSTALL/REMOVE STRIPING AND/OR PAVEMENT MARKINGS AND/OR K71'S AS SHOWN.

5. REMOVE PULLBOX; JOIN AND EXTEND CONDUIT(S) INTO PULLBOX.



ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL

EXISTING PHASE DIAGRAM

CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
MULTI	3 CONDUCTOR CABLE																																			
	5 CONDUCTOR CABLE										3						3	2																		
	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)																																			
	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)											1	1																							
	28 CONDUCTOR CABLE 27 X #18 & 1 X #16 (COM)					1								1																						
6	SERVICE			3	3	3	3			6			3	3		3																				
8	BONDING (GROUND)																																			
12	BUS DLC (1-PAIR)		1			1	1	1					2			2																				
18	DLC (2 PAIR)	1				1		1					2			2																				
18	DLC (3 PAIR)																																			
18	DLC (4 PAIR)																																			
14	DLC (EXISTING)																																			
	12 SM VIDEO FIBER			2	2	2	2		1						1																					
	24 SM VIDEO FIBER			1	1	1	1								1																					
22	I/C (12 PAIR)										2	2																								
22	I/C (25 PAIR)	1	1				1		1						2	2																				
14	ACCESSIBLE PEDESTRIAN SIGNAL (APS)										2	2					1	2	2	1	2	2	2	2	2	1	1									
	CONDUIT SIZE	*	*	*	*	*	3"	*	3"	*	2"	2"	3"	3"	3"	*	2"	2"	*	*	*	*	*	*	*	1"	1"									

EX – EXISTING
* FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONDUCTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS, ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485-1071 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473-8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AN'D ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473-8478 BEFORE 9:00 A.M. ON NON-HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216-4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473-8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928-9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR. EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S-457.0 AND S-486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473-7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1-1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.

6 JOIN AND EXTEND CONDUIT(S) INTO PULLBOX. DISCONNECT EXISTING I/C CABLE(S) AND VIDEO FIBER CABLE(S) FROM CONTROLLER CABINET AND PULL CABLE(S) OUT TO NEAREST PULLBOX EASTERLY. REINSTALL AND RECONNECT I/C CABLE(S) AND VIDEO FIBER CABLE(S) BACK TO CONTROLLER CABINET. INSTALL NEW CABLE(S) IF SLACK IN THE CABLE(S) IS NOT SUFFICIENT.

7 CONTRACTOR SHALL DISCONNECT THE TWO 25-PAIR INTERCONNECT IN THE EXISTING CONTROLLER CABINET (SEE LADOT SPECIAL PROVISIONS, SECTION 5 TITLED "NOTIFICATION", FOR INFORMATION REGARDING WORK AFFECTING MAJOR ATSAC COMMUNICATION FACILITIES). CONTRACTOR MAY REROUTE EXISTING CABLE TO THE PROPOSED CONDUIT ON THIS PLAN BY USING THE COILED SLACK IN THE CONTROLLER CABINET AND INTERMEDIATE PULLBOXES. IN THE EVENT THAT THE SLACK IN THE CABLE IS NOT SUFFICIENT TO ACCOMPLISH THE PROPOSED INSTALLATION AS SHOWN ON THIS PLAN, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL NEW 25-PAIR INTERCONNECT FROM THE CONTROLLER CABINET AT THIS INTERSECTION TO THE CONTROLLER AT MATHEWS ST. (APPROX. 650' EASTERLY) & FOLSOM ST. (APPROX. 800' NORTHERLY).

8 CONTRACTOR SHALL DISCONNECT THE TWO 12-SM AND ONE 24-SM VIDEO FIBER CABLES IN THE EXISTING COMMUNICATION CABINET (SEE LADOT SPECIAL PROVISIONS, SECTION 5 TITLED "NOTIFICATION", FOR INFORMATION REGARDING WORK AFFECTING MAJOR ATSAC COMMUNICATION FACILITIES). CONTRACTOR MAY REROUTE EXISTING CABLE TO THE PROPOSED CONDUIT ON THIS PLAN BY USING THE COILED SLACK IN THE COMMUNICATION CABINET AND INTERMEDIATE PULLBOXES. IN THE EVENT THAT THE SLACK IN THE CABLE IS NOT SUFFICIENT TO ACCOMPLISH THE PROPOSED INSTALLATION AS SHOWN ON THIS PLAN, THE CONTRACTOR SHALL BE REQUIRED TO INSTALL NEW 12-SM AND/OR 24-SM VIDEO FIBER CABLE FROM THE COMMUNICATION CABINET AT THIS INTERSECTION TO THE CONTROLLER AT 12-SM TO BRITTANIA ST. (APPROX. 2100' WESTERLY) & 12-SM TO WABASH AVE. (APPROX. 2700' NORTHERLY) & 24-SM TO BENJAMIN FRANKLIN LIBRARY. (APPROX. 2400' SOUTHERLY). CONTRACTOR SHALL CONTACT LADOT COMMUNICATION ENGINEER THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION AT (213) 978-0150 TO COORDINATE AND REVIEW THE INSTALLATION AND SPLICE PROCEDURE FOR FIBER OPTIC AND VIDEO FIBER CABLES.

9 CONTRACTOR SHALL TRIM TREE(S) AND/OR FOLIAGE TO ASSURE ADEQUATE VISIBILITY OF TRAFFIC SIGNAL INDICATIONS. NOTIFY BUREAU OF STREET SERVICES, URBAN FORESTRY DIVISION AT (213) 485-5675 FIVE (5) WORKING DAYS PRIOR TO TRIMMING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.

10 THE CONTRACTOR SHALL CONTACT THE LADOT CONSTRUCTION SUPERVISOR II GEORGE NOCIFORE AT GEORGE.NOCIFORE@LACITY.ORG FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TIMING CHANGES SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION.

11 INSTALL STANDARD 4 FEET BEHIND CURB FACE.

12 RELOCATE SIGN(S) TO NEW MAST ARM/STANDARD.

13 RELOCATE STREET-NAME SIGN TO NEW MAST ARM/STANDARD.

14 REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT. ABANDON CONDUIT.

15 INSTALL STANDARD 8 FEET BEHIND CURB FACE.

16 INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.

17 INSTALL VEHICLE HEAD ON SOUTH SIDE OF POLE.

18 INSTALL ADDITIONAL RED CURB.

19. ALL NEW VEHICLE AND COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL HEADS SHALL BE LED MODULES PER LADOT SPECIFICATION 92-088-07 (LATEST EDITION).

20. CONTRACTOR TO PROVIDE A TEMPORARY TRAFFIC SIGNAL SYSTEM AT THE INTERSECTION DURING SIGNAL CONSTRUCTION. CONTRACTOR TO PROVIDE A PLAN FOR TEMPORARY SIGNALIZATION TO THE LADOT TEMPORARY TRAFFIC MANAGEMENT SECTION (213) 972-5968 AND TRAFFIC SIGNAL INSPECTOR (213) 485-1071, AND OBTAIN APPROVAL OF THE PLAN A MINIMUM OF FIVE DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL TRAFFIC SIGNAL EQUIPMENT, AND LADOT WILL OPERATE AND TIME THE SIGNALS.

DETAIL "B"
(Not to Scale)

BROOKLYN AVENUE NEIGHBORHOOD CORRIDOR

DETAIL "C"
(Not to Scale)

Scale: 1" = 20'
North/South: SOTO ST.

1" = 20' ORIGINAL MAPS SCALE
1" = 40'

NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE

	BY	DATE
SUPERVISOR	KM	11-02-22
DESIGNER	MK	10-20-22
SR. DRAFTING	--	–
DRAFTING	ARH/LY	10-13-22
FIELD	MK	02-23-22
BASE	ARH	

TIMING	BY	DATE
DISTRICT	EZ	11-12-22
GEOMETRIC	KP	3-30-23
ATSAC		
METRO RAIL		

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED June 8 20 23
Rajesh Gaur
Transportation Engineer

APPROVED June 8, 20 23
John Vargheese
Senior Transportation Engineer

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

AS BUILT

Date of Installation: _____
LADOT Inspector: _____
Condition As Of: _____
LADOT Engineer: _____
District CENTRAL
Thomas Guide 635 B4

References
PROJECT NO. 80252, STTP16CS.dwg
PROJ. 75060
FIELD CHECK
CIVIL PLAN E1908099 CP13 & CP14

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & SOTO ST.

File Name	Intersection No.	Project No.
01190-2022.DWG	01190	PROPC000

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

SCALES	HORIZ. 1"=
	VERT. 1"=

SHEET 33 OF 40

INDEX NUMBER

(LADOT Revised 8/14)
(Drafting Std. 11/04)

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PED. PUSH BUT'N PHASE	REMARKS
	(X) (1)	356 Cab.	F-332*	–	–	Install ATSAC 2070 Controller in 356 Cab.
*	(X) (2)	1	F-1	APS(6P)	–	Install APS
*	(X) (3)	CD953	BSL	APS(4P)	4	APS
*	(X) (4)	1	F-1	APS(4P)	4	APS
*	(X) (5)	CD954	F-2	–	–	15' M.A.
	(X) (6)	7	F-7	APS(2P)	–	Install APS
*	(X) (7)	1	F-1	APS(2P)	–	Install APS
	(X) (8)	7	F-7	APS(3P)	3	Install APS
	(X) (9)	1	F-1	–	–	
	(X) (10)	7	F-7	APS(3P)	3	Install APS
*	(X) (11)	1	F-1	–	–	
**	(X) (12)	17-3-100	CIDH^	–	–	Install 20' M.A.
	(X) (13)	7	F-7^	APS(6P)	–	Install APS

* EXISTING
** PER LADOT STD. DWG. NO. S-52.1.6.
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.
^ SPECIAL FOUNDATION MAY BE REQUIRED, REFER TO 30.

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL
1	2070 Controller
2	APS

CONDUCTOR SCHEDULE

| SIZE No. | CABLE / WIRE | RUN | | |

SIGNAL STANDARD SCHEDULE

	No.	TYPE	FOUND. TYPE	PED. PUSH BUT'N TYPE	PHASE	REMARKS
*	(X) (1)	332 Cab.	F-332			ATSAC 2070 Controller in 332 Cab.
*	(X) (2)	CD953	F-2			
	(X) (3)	7	F-7	APS(4P)	4	Install APS
***	(X) (4)	CD953C	F-2			
*	(X) (5)	CD954	F-2	APS(4P)	4	Install APS
*	(X) (6)	1	F-1			
*	(X) (7)	CD953	F-2			
*	(X) (8)	CD953	F-2	APS(8P)	8	Install APS
*	(X) (9)	CD954	F-2	APS(8P)	8	Install APS
*	(X) (10)	1	F-1			

* EXISTING
** PER LADOT STD. DWG. NO. S-52.1.6.
*** FOR REFERENCE ONLY; SEE STREET LIGHTING SHEET.

ESTIMATED MATERIAL FURNISHED BY LADOT

UNITS	MATERIAL

ESTIMATED SALVAGE MATERIAL TO BE RETURNED TO LADOT

UNITS	MATERIAL
ALL	LED HEADS

CONDUCTOR SCHEDULE

SIZE No.	CABLE / WIRE	RUN 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
MULTI	3 CONDUCTOR CABLE 3 X #14		1																															
	5 CONDUCTOR CABLE 5 X #14	2																																
	9 CONDUCTOR CABLE 8 X #14 & 1 X #10 (COM)																																	
	13 CONDUCTOR CABLE 12 X #14 & 1 X #10 (COM)																																	
	28 CONDUCTOR CABLE 27 X #18 & 1 X #16 (COM)																																	
6	SERVICE																																	
8	BONDING (GROUND)																																	
12	BUS DLC (1-PAIR)																																	
18	DLC (2 PAIR)																																	
18	DLC (3 PAIR)																																	
18	DLC (4 PAIR)																																	
14	DLC (EXISTING)																																	
22	I/C (12 PAIR)																																	
	ACCESSIBLE PEDESTRIAN SIGNAL (APS)	1	1	1																														
	CONDUIT SIZE	2"	1"	*	*																													

NOTE: FOR EXISTING CONDUIT RUNS DESIGNATED WITH AN "*" (ABOVE), THE CONTRACTOR SHALL ADD/INSTALL NEW CONDUCTORS/CABLES AND PROTECT AND MAINTAIN ALL EXISTING CONDUCTORS/CABLES.

NOTES:

1. SEMI-ACTUATED OPERATION (ATSAC 2070 CONTROLLER IN 332 CABINET) WITH TRANSIT PRIORITY

   ø2 – CESAR E. CHAVEZ AVE. WB & N/S PED. XING
   ø4 – ST. LOUIS ST. SB & W/S PED. XING
   ø6 – CESAR E. CHAVEZ AVE. EB & S/S PED. XING
   ø8 – ST. LOUIS ST. NB & E/S PED. XING

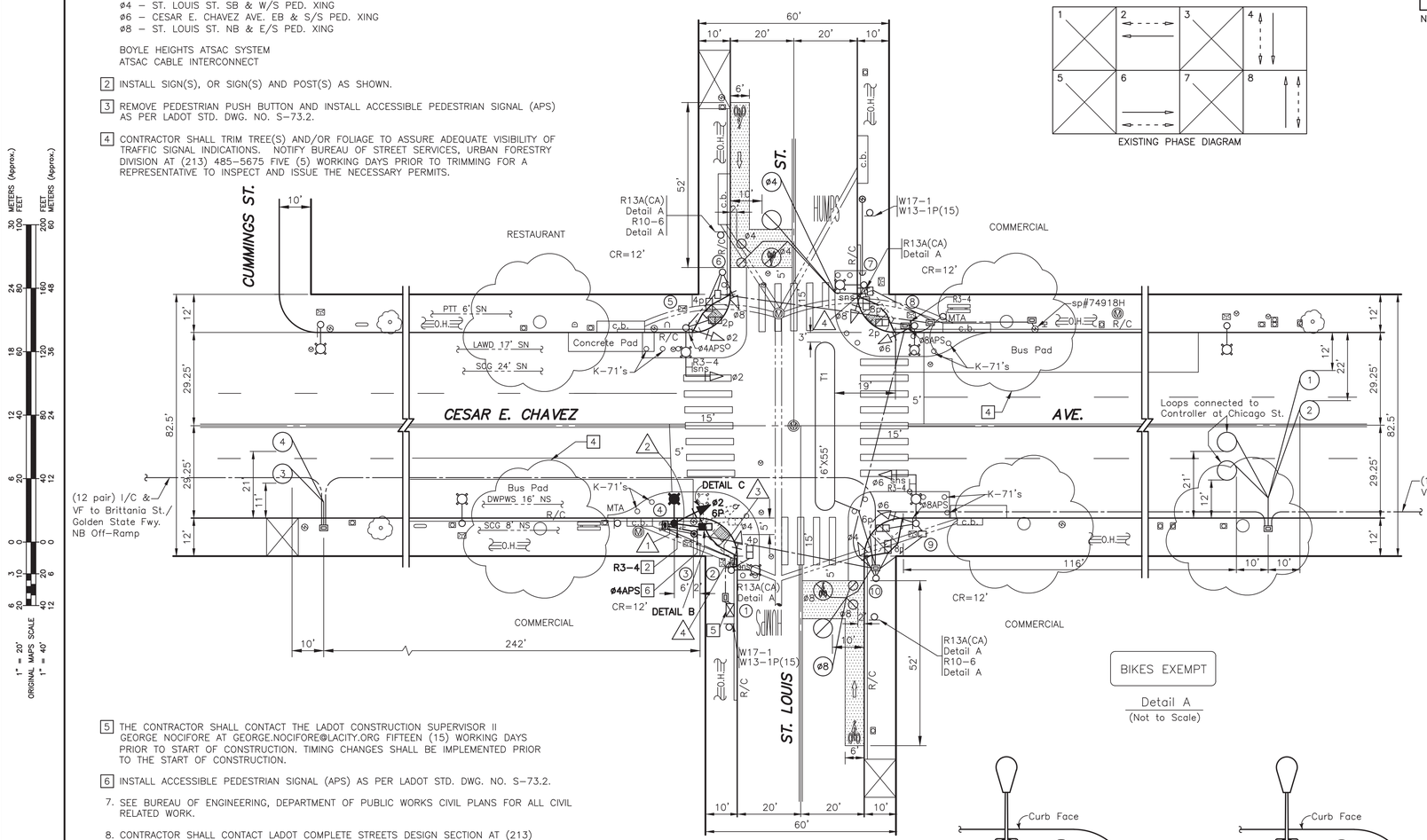
   BOYLE HEIGHTS ATSAC SYSTEM
   ATSAC CABLE INTERCONNECT

[2] INSTALL SIGN(S), OR SIGN(S) AND POST(S) AS SHOWN.

[3] REMOVE PEDESTRIAN PUSH BUTTON AND INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.

[4] CONTRACTOR SHALL TRIM TREE(S) AND/OR FOLIAGE TO ASSURE ADEQUATE VISIBILITY OF TRAFFIC SIGNAL INDICATIONS. NOTIFY BUREAU OF STREET SERVICES, URBAN FORESTRY DIVISION AT (213) 485-5675 FIVE (5) WORKING DAYS PRIOR TO TRIMMING FOR A REPRESENTATIVE TO INSPECT AND ISSUE THE NECESSARY PERMITS.

EXISTING PHASE DIAGRAM



[5] THE CONTRACTOR SHALL CONTACT THE LADOT CONSTRUCTION SUPERVISOR II GEORGE NOCIFORE AT GEORGE.NOCIFORE@LACITY.ORG FIFTEEN (15) WORKING DAYS PRIOR TO START OF CONSTRUCTION. TIMING CHANGES SHALL BE IMPLEMENTED PRIOR TO THE START OF CONSTRUCTION.

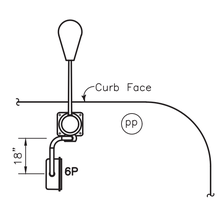
[6] INSTALL ACCESSIBLE PEDESTRIAN SIGNAL (APS) AS PER LADOT STD. DWG. NO. S-73.2.

7. SEE BUREAU OF ENGINEERING, DEPARTMENT OF PUBLIC WORKS CIVIL PLANS FOR ALL CIVIL RELATED WORK.

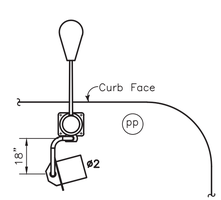
8. CONTRACTOR SHALL CONTACT LADOT COMPLETE STREETS DESIGN SECTION AT (213) 928-9633 FOR ANY SIGNAL RELATED PROBLEMS ENCOUNTERED DURING CONSTRUCTION.

9. ALL NEW VEHICLE AND COUNTDOWN PEDESTRIAN TRAFFIC SIGNAL HEADS SHALL BE LED MODULES PER LADOT SPECIFICATION 92-088-07 (LATEST EDITION).

BIKES EXEMPT
Detail A
(Not to Scale)



DETAIL B
(Not to Scale)



DETAIL C
(Not to Scale)

Scale: 1" = 20'
North/South: ST. LOUIS ST.

NOTICE TO CONTRACTOR

1. EXCEPT WHERE OTHERWISE INDICATED, MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE LATEST EDITION, WITH SUPPLEMENTS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, ADOPTED BY THE CITY OF LOS ANGELES BOARD OF PUBLIC WORKS (LABPW), INCLUDING THE LATEST VERSION OF THE "BROWN BOOK" ISSUED BY THE LABPW, AND THE LATEST EDITION, WITH AMENDMENTS, OF THE SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS, ISSUED BY THE CITY OF LOS ANGELES DEPARTMENT OF TRANSPORTATION (LADOT).

2. ALL TRAFFIC SIGNAL AND/OR RELATED ELECTRICAL WORK SHALL BE PERFORMED AND INSPECTED UNDER THE CONDITIONS OF THE MOST CURRENT AMENDED BOARD OF PUBLIC WORKS "ENHANCED ELECTRICAL SAFETY POLICY" AS REQUIRED IN LADOT'S SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS (RED BOOK), REGARDLESS OF CONTRACT COST.

3. THE LADOT TRAFFIC SIGNAL INSPECTOR AT (213) 485-1071 SHALL BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FOR WORK IN THE AUTOMATED TRAFFIC SURVEILLANCE AND CONTROL (ATSAC) PROJECT AREA, A FIELD MEETING SHALL BE SCHEDULED WITH THE SIGNAL SYSTEM SUPERVISOR AT (213) 473-8286 AND THE SIGNAL MAINTENANCE SUPERVISOR AT (213) 485-7721 THREE (3) WORKING DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. FULL RESTORATION OF THE ATSAC SYSTEM MUST OCCUR WITHIN FIVE (5) WORKING DAYS AFTER SHUT DOWN.

4. REGULAR TRAFFIC SIGNAL CONTROL SHALL BE MAINTAINED FROM 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 7:00 P.M. ON WEEKDAYS, EXCEPT NATIONAL HOLIDAYS. FLASHING, DEACTIVATION AND ACTIVATION OF SIGNALS SHALL BE ACCOMPLISHED ONLY BY A LADOT TRAFFIC SIGNAL ELECTRICIAN. ALL ARRANGEMENTS TO DEACTIVATE SIGNALS SHALL BE MADE 24 HOURS IN ADVANCE BY CONTACTING THE LADOT TRAFFIC SIGNAL DEDICATED LINE AT (213) 473-8478 BEFORE 9:00 A.M. ON NON-HOLIDAY WEEKDAYS. THE LADOT PROJECT NUMBER MUST BE GIVEN AT THIS TIME. THE CONTRACTOR WILL BE CHARGED FOR ALL ELECTRICAL AND TRAFFIC CONTROL SERVICE PROVIDED BY LADOT.

5. ARRANGEMENTS FOR OBTAINING ANY MATERIALS IDENTIFIED TO BE SUPPLIED BY LADOT SHALL BE MADE TEN (10) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT FIELD OPERATIONS DIVISION AT (213) 216-4677. HOWEVER, TRAFFIC SIGNAL CONTROLLERS REQUIRE THIRTY (30) WORKING DAYS ADVANCE NOTICE AND MUST BE PICKED UP WITHIN FIFTEEN (15) WORKING DAYS AFTER NOTIFICATION. CONTACT LADOT SIGNAL SHOP AT (213) 473-8468 TO COORDINATE CONTROLLER DELIVERY AND/OR PICKUP.

6. ALL IDENTIFIED TRAFFIC SIGNAL EQUIPMENT SHALL BE RETURNED TO LADOT. ARRANGEMENTS FOR RETURNING IDENTIFIED EQUIPMENT TO LADOT SHALL BE MADE FIVE (5) WORKING DAYS IN ADVANCE BY CONTACTING THE LADOT MATERIAL CONTROL DIVISION AT (213) 928-9636.

7. ALL EXISTING TRAFFIC CONTROL SIGNING SHALL BE MAINTAINED WITH STANDARD SIGN BRACKETS BY THE CONTRACTOR. EXCEPT WHERE OTHERWISE INDICATED, EXISTING LARGE STREET NAME SIGNS ON MAST ARM TYPE STANDARDS SHALL BE RELOCATED FROM THE VERTICAL POLE TO THE MAST ARM PER LADOT STANDARD DRAWING NO. S-457.0 AND S-486.0. THE CONTRACTOR SHALL COORDINATE WITH LADOT SIGN SHOP AT (213) 473-7954 FOR ANY REQUIRED LARGE STREET NAME SIGNS. ANY TRAFFIC CONTROL SIGNING DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SIGNAL CONTRACTOR SHALL INSTALL MAST ARM MOUNTED SIGNS. FOR THE INSTALLATION OF A STREET NAME SIGN ON A TYPE 1 POLE, THE CONTRACTOR SHALL FURNISH AND INSTALL A POLE EXTENSION AS NEEDED.

8. THE CONTRACTOR SHALL FURNISH AND INSTALL, AS SHOWN ON THE PLANS, ALL TRAFFIC SIGNAL EQUIPMENT SUCH AS STANDARDS, MAST ARMS, SIGNAL HEADS, AND OTHER EQUIPMENT AS REQUIRED. ALL SUCH EQUIPMENT SHALL BE NEW. ALL VEHICLE HEAD EQUIPMENT SUPPLIED BY THE CONTRACTOR SHALL HAVE 1-1/2 INCH DIAMETER PIPE FIT MOUNTING HARDWARE, INCLUDING ALL TOP POST MOUNT HEADS. PED HEAD MODULE REPLACEMENTS SHOWN ON THE PLAN SHALL REQUIRE A COMPLETE INSTALLATION, INCLUDING NEW PED HEAD AND TERMINAL COMPARTMENT.

NO.	REVISION DESCRIPTION	DIV./DIST. ENGR.	DATE

	BY	DATE
SUPERVISOR	KM	12-19-22
DESIGNER	FK	11-16-22
SR. DRAFTING	--	-
DRAFTING	ARH/LY/RDF	04-22-23
FIELD	FK	08-07-22
BASE	ARH	03-03-22

	BY	DATE
TIMING	EZ	03-07-23
DISTRICT GEOMETRIC	KP	04-19-23
ATSAC METRO RAIL		

REGISTERED PROFESSIONAL ENGINEER JOHN VARGHESE No. 59715 CIVIL STATE OF CALIFORNIA

BOYLE HEIGHTS/CESAR E. CHAVEZ GREAT STREETS PROJECT

SUBMITTED May 18 20 23
Rajesh Gaur
Transportation Engineer

APPROVED May 18, 20 23
John Varghese
Senior Transportation Engineer

AS BUILT
Date of Installation:
LADOT Inspector:
Condition As Of:
LADOT Engineer:
District CENTRAL
Thomas Guide 635-B4
References
PROJECT NO. 75060
01210-S1.DWG
FIELD CHECK

CITY OF LOS ANGELES
DEPARTMENT OF TRANSPORTATION
CONNIE LLANOS, Interim General Manager

TITLE
CESAR E. CHAVEZ AVE. & ST. LOUIS ST.

File Name	Intersection No.	Project No.
01210-2022.DWG	01210	PROPC000

NOTICE: IF PLAN HAS NOT BEEN IMPLEMENTED WITHIN TWO (2) YEARS OF THE APPROVAL DATE, IT MUST BE RESUBMITTED TO LADOT SIGNAL DESIGN SECTION FOR REVIEW AND APPROVAL.

SCALES	HORIZ. 1"=	SHEET 35 OF 40	INDEX NUMBER
	VERT. 1"=		

(LADOT Revised 8/14)

NOTICE TO CONTRACTORS
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST BOARD OF PUBLIC WORKS OF THE CITY OF LOS ANGELES ADOPTED EDITION AND SUPPLEMENTS TO THE "GREENBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS MODIFIED BY THE CORRESPONDING ISSUE OF THE BROWN BOOK, THE LATEST EDITION OF THE BUREAU OF STREET LIGHTING "SPECIAL SPECIFICATIONS", AND THE SPECIAL PROVISIONS, FOR ADDITIONAL INFORMATION AND INSTRUCTION REFER TO "BSL.LACITY.ORG".
2. ELECTROLIERS SHALL BE INSTALLED WITH CENTERLINE 30" BEHIND THE CURB FACE, AND WITH LUMINAIRE ARM ORIENTED OVER THE STREET AND PERPENDICULAR TO ITS CENTER LINE, EXCEPT AS OTHERWISE SPECIFIED HEREON.
3. ELECTROLIERS SPECIFIED TO BE RELOCATED INSIDE OF THE CURB RETURN SHALL BE INSTALLED WITH THE CENTER OF THE ELECTROLIER 30 INCHES BEHIND THE CURB FACE MEASURED RADIALLY, AND WITH THE LUMINAIRE ARM ORIENTED OVER THE STREET AND PERPENDICULAR TO THE STREET CENTERLINE.
4. ELECTROLIERS SHALL BE ERECTED SO THAT THE BASE DOOR IS PERPENDICULAR TO THE CURB AND LOCATED ON THE SIDE OF THE ELECTROLIER AWAY FROM ONCOMING TRAFFIC.
5. ALL EXISTING ELECTROLIERS SPECIFIED TO BE REMOVED OR MODIFIED ON THIS PLAN SHALL BE MAINTAINED IN SERVICE UNTIL THE NEW ELECTROLIER LIGHTING SYSTEM IS PLACED IN SERVICE, UNLESS OTHERWISE SPECIFIED HEREON. ALL OTHER ELECTROLIERS ON CIRCUITS AFFECTED BY THIS PLAN SHALL BE MAINTAINED IN SERVICE. CONTRACTOR MAY PROVIDE ALTERNATE LIGHTING IN LIEU OF MAINTAINING EXISTING ELECTROLIER LIGHTS IN SERVICE PROVIDED THAT SUCH ARRANGEMENTS ARE APPROVED BY THE ENGINEER.
6. ALL EQUIPMENT REQUIRED HEREON FOR FURNISHING ELECTRICAL SERVICE FOR EACH CIRCUIT SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY OTHER CONSTRUCTION ON THAT CIRCUIT UNLESS OTHERWISE APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL GIVE WRITTEN NOTICE, 72 HOURS IN ADVANCE OF THE REMOVAL OF AN ELECTROLIER, TO ANY PUBLIC AGENCY MAINTAINING EQUIPMENT SUPPORTED BY THAT ELECTROLIER.
8. FOUNDATIONS AND PULLBOXES NOT REMAINING IN SERVICE SHALL BE REMOVED. THE RESULTING EXCAVATION SHALL BE FILLED WITH MATERIAL SIMILAR TO ADJACENT MATERIAL AND SATISFACTORILY COMPACTED WITH A MECHANICAL COMPACTOR IN LAYERS NOT EXCEEDING 12 INCHES. THE SURFACE SHALL BE FINISHED TO MATCH THE ADJACENT SURFACE.
9. THE CONTRACTOR SHALL REQUEST A BURN TEST BY NOTIFYING THE BUREAU OF CONTRACT ADMINISTRATION PROJECT INSPECTOR A MINIMUM OF 7 CALENDAR DAYS IN ADVANCE OF THE DATE ON WHICH A BURN TEST IS DESIRED.
10. CONTRACTOR SHALL GIVE THREE WORKING DAYS NOTICE (PHONE 323-913-4736) PRIOR TO DELIVERY OF ANY EQUIPMENT SPECIFIED TO BE DELIVERED TO THE BUREAU OF STREET LIGHTING YARD AT 4550 SANTA MONICA BLVD.. SUCH DELIVERIES SHALL BE BETWEEN 9:00 AM AND 2:00 PM FROM MONDAY THRU THURSDAY, AND SHALL INCLUDE ALL HANDLING AND LOADING FROM THE TRUCK BY THE CONTRACTOR. CONTRACTOR MUST SUPPLY A COPY OF THE STREET LIGHTING SHEETS WITH THE DELIVERY OF MATERIAL.
11. PULLBOXES LOCATED ADJACENT TO DRIVEWAYS AND ALLEYS SHALL BE INSTALLED AT A MINIMUM DISTANCE OF FIVE FEET FROM THE TOP OF THE "X" OF A CASE 1 OR CASE 2 DRIVEWAY OR AT A MINIMUM DISTANCE OF TWO FEET FROM THE B.C.OF A CASE 3 OR CASE 4 DRIVEWAY OR FIVE FEET FROM TRAVELLED WAY OF THE ALLEY.
12. PULLBOXES INSTALLED AT INTERSECTIONS OF LOCAL STREET SHALL BE INSTALLED NO CLOSER TO THE INTERSECTIONS THAN THE B.C.R. OF AN ASSUMED FUTURE 25' RADIUS CURB RETURN UNLESS OTHERWISE APPROVED BY THE ENGINEER. PULLBOXES INSTALLED AT INTERSECTIONS WHICH INVOLVE ONE OR MORE MAJOR OR SECONDARY STREET SHALL BE INSTALLED NO CLOSER TO INTERSECTIONS THAN THE B.C.R. OF AN ASSUMED FUTURE 35' RADIUS CURB RETURN UNLESS OTHERWISE APPROVED BY THE ENGINEER.
13. CONDUIT SHALL BE INSTALLED AROUND EXISTING AND/OR PROPOSED CATCH BASIN PER BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-304-0 UNLESS OTHERWISE SPECIFIED.
14. ALL SCREWS PROVIDED FOR ELECTROLIER STANDARD BASE DOORS AND BASE COVERS SHALL BE CADMIUM PLATED STEEL, 1/4-20NC MACHINE SCREWS, WITH PHILLIPS RECESSED ROUND HEADS.
15. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE AFFECTED UTILITY COMPANY BEFORE DOING ANY WORK IN CLOSE PROXIMITY TO ANY OVERHEAD ELECTRIC LINE. SEE SECTIONS 106 AND 110 OF SPECIAL SPECIFICATIONS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE CONDITION OF ALL EXISTING EQUIPMENT TO BE REUSED, MODIFIED OR RETURNED TO THE BUREAU OF STREET LIGHTING YARD.
17. EQUIPMENT INDICATED "DISPOSE" SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY THE CONTRACTOR. REFER TO SECTION 307-7 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
18. STREET LIGHTING CONDUIT SHALL BE INSTALLED BY JACKING OR DRILLING METHODS. INSTALLATION OF CONDUIT BY OPEN TRENCHING IS NOT PERMITTED UNLESS APPROVED BY THE DIRECTOR, BUREAU OF STREET LIGHTING.
19. CONTRACTOR SHALL REPAIR AT HIS COST, THE DAMAGE CAUSED TO EXISTING SPRINKLER SYSTEMS DURING THE CONSTRUCTION OF THIS PROJECT. REPAIRS SHALL BE MADE WITHIN 5 WORKING DAYS AFTER DAMAGE OCCURS.
20. ALL ELECTROLIERS SPECIFIED HEREON SHALL INCLUDE A TYPE 2 PULL BOX, TO BE SUPPLIED AND INSTALLED, UNLESS OTHERWISE SPECIFIED.
21. STREET LIGHTING CONDUIT THAT IS TO BE ABANDONED SHALL HAVE WIRES REMOVED. THE CONDUIT ENDS THAT ARE WITHIN 12" OF THE SURFACE SHALL BE CUT AND REMOVED. BOTH ENDS OF THE REMAINING ABANDONED CONDUIT SHALL BE CRIMPED.

ALL CONSTRUCTION IS PROHIBITED ON MAJOR AND SECONDARY STREETS BETWEEN:
6:00 A.M. TO 9:00 A.M. AND 3:30 P.M. TO 7:00 P.M.

NOTICE TO CITY INSPECTOR/CONTRACTOR

THIS PROJECT IS SUBJECT TO "BUY AMERICA" REQUIREMENTS OF TITLE 23 UNITED STATES CODE, SECTION 313. CERTIFICATION OF COMPLIANCE IS REQUIRED TO BE SUBMITTED TO THE PROJECT INSPECTOR. SEE PROJECT SPECIFICATIONS.

CIRCUIT DIAGRAM LEGEND

NEW WIRE
EXISTING WIRE
DISCONNECT AND REMOVE WIRE
CONNECT WIRE
DISCONNECT WIRE AND TAPE ENDS
NEW LAMP
EXISTING LAMP
REMOVE EXISTING LAMP

SERIES CIRCUIT NOTES

1. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE SERVING COMPANY, AND "MEN AT WORK" SIGNS SHALL BE POSTED AT THE SERVICE POINT BEFORE ANY WORK IS DONE OR ANY CONNECTIONS MADE ON AN EXISTING CIRCUIT. SEE SECTION 2100 AND STREET LIGHTING CIRCUIT CLEARANCE NOTE ON THE TITLE SHEET.
2. SERIES CIRCUIT WIRE SHALL BE NO. 8 AWG SOLID COPPER CONDUCTOR, INSULATED WITH 0.110" APPROVED POLYETHYLENE COMPOUND RATED FOR 5,000 VOLT OPERATION.
3. TWO OR MORE TURNS OF SELF-ADHESIVE COLORED TAPE WITH A MINIMUM WIDTH OF 1/2 INCH SHALL BE APPLIED TO EACH CABLE IN ALL SERIES CIRCUITS WHERE WORK IS BEING DONE AND WHERE TWO OR MORE CIRCUITS EXIST IN A COMMON PULL BOX OR POST BASE. THE TAPE SHALL BE APPLIED ON THE CABLE BETWEEN THE SPLICES AND THE CONDUIT, USING ONE COLOR FOR EACH CIRCUIT. THE COLORS WHITE, GRAY, GREEN,AND ORANGE SHALL NOT BE USED.
4. CONTRACTOR SHALL GIVE THE BUREAU OF STREET LIGHTING YARD (PHONE 323-913-4734) TWO WORKING DAYS NOTICE BEFORE ANY WORK IS DONE ON AN EXISTING SERIES CIRCUIT.

MULTIPLE CIRCUIT NOTES

1. WARNING: SAFETY CLEARANCE SHALL BE OBTAINED DAILY FROM THE SERVING COMPANY BEFORE DOING ANY WORK OR MAKING ANY CONNECTIONS ON AN EXISTING CIRCUIT. SEE SECTION 2100 AND STREET LIGHTING CIRCUIT CLEARANCE NOTE ON THE TITLE SHEET.
2. MULTIPLE CIRCUIT WIRE SHALL BE NO. 8 AWG STRANDED COPPER CONDUCTOR. TYPE THWN/THHN INSULATION, UL APPROVED FOR 600 VOLT OPERATION UNLESS OTHERWISE SPECIFIED HEREON.
3. THREE WIRES (COLOR CODE: 1-RED, 1-BLACK, 1-WHITE,) SHALL BE INSTALLED IN ALL MULTIPLE CIRCUIT CONDUIT UNLESS OTHERWISE PROVIDED FOR HEREON.
4. EVEN NUMBERED ELECTROLIERS SHALL BE CONNECTED TO RED AND WHITE WIRES AND ODD NUMBERED ELECTROLIERS SHALL BE CONNECTED TO BLACK AND WHITE WIRES.
5. ELECTROLIERS SHALL BE WIRED PER TYPICAL MULTIPLE CIRCUIT ELECTROLIER WIRING DETAIL, BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1, UNLESS OTHERWISE SPECIFIED.
6. MULTIPLE CIRCUITS IN CONDUITS CONTAINING MORE THAN THREE CONDUCTORS SHALL BE APPROPRIATELY IDENTIFIED BY LABELING CONDUCTORS "A", "B", ETC. WITH APPROVED SELF-LAMINATING LETTER TAPE WRAPPED AT LEAST TWICE AROUND THE CONDUCTOR IN EACH PULLBOX. (W.H. BRADY, SPECIAL SELF-LAMINATING WIRE MARKERS OR EQUIVALENT)

LEGEND

(R) EXISTING ELECTROLIER TO BE RELOCATED
EXISTING UTILITARIAN LIGHTS ON WOODEN POLES WHICH SHALL BE MAINTAINED IN SERVICE UNTIL THE PERMANENT ELECTROLIER LIGHTING SYSTEM IS PLACED IN SERVICE. CONTRACTOR MAY PROVIDE ALTERNATE LIGHTING IN LIEU OF MAINTAINING EXISTING UTILITARIAN LIGHTS IN SERVICE PROVIDED THAT SUCH ARRANGEMENTS ARE APPROVED BY THE ENGINEER.
EXISTING ELECTROLIER TO BE REMOVED. (SEE GENERAL NOTE 8)
NEW ELECTROLIER
EXISTING ELECTROLIER, NOT TO BE REMOVED OR MODIFIED
NEW PULLBOX. ADDITIONAL PULLBOXES SHALL BE REQUIRED AS SPECIFIED.
- ALL TYPE 2 PULLBOXES SPECIFIED SHALL BE OF "COMPOSITE/POLYMER" MATERIAL, WITH BOLT-DOWN LID AND SHALL COMPLY WITH STANDARD PLAN "COMPOSITE TYPE 2-REV. B" AND APPROVED BY THE BUREAU OF STREET LIGHTING.
- ALL TYPE 3 PULLBOXES SPECIFIED SHALL BE OF "COMPOSITE/POLYMER" MATERIAL, WITH BOLT-DOWN LID AND SHALL COMPLY WITH STANDARD PLAN "COMPOSITE TYPE 3-REV. A" AND APPROVED BY THE BUREAU OF STREET LIGHTING.

EXISTING PULLBOX TO BE REMOVED.
EXISTING PULLBOX
EXISTING 1" CONDUIT
EXISTING 1-1/2" CONDUIT
EXISTING 2" CONDUIT
NEW 1" CONDUIT
NEW 1-1/2" CONDUIT
NEW 2" CONDUIT
NEW 3" HDPE SDR-11 (smoothwall) ROLL PIPE (orange) OR EQUIVALENT CONDUIT
ABANDON CONDUIT (SEE GENERAL NOTE NO. 8 & NO. 21)
EXISTING ELECTROLIER FOUNDATION
FUTURE ELECTROLIER
PROPOSED CATCH BASIN
GENERAL BENEFIT STREETLIGHTS

NOTICE TO CONTRACTORS
MATERIAL LIST

FOLLOWING IS A SUMMARY OF NEW ELECTROLIERS, LUMINAIRES, LAMPS, BALLASTS, FOUNDATIONS, AND OTHER EQUIPMENT WHICH SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THIS IS NOT INTENDED TO BE A COMPLETE LIST OF ALL MATERIALS REQUIRED

SYMBOL	ITEM	QUANTITY	DESCRIPTION	STANDARD PLAN NO.	REV. NO.	NOMINAL WATTAGE
	ELECTROLIER	5	15' OCTAGONAL CLASSIC KING COACHMAN POLE W/ 3' LUMINAIRE ARM AND W/TYPE 2 PULLBOX AND WITHOUT HANDHOLE (25) (29) (31) (34) (41) (45)			
	LUMINAIRE	5	LED KING COACHMAN (33)			25W
(1)	LUMINAIRE ARM WITH BRACKET	4	28" DECORATIVE ARM WITH CLAMP-ON ARM BRACKET FOR CD814E (41) (32)			
(1)	LUMINAIRE	4	REPILCA OF LUMEC Z65A TEARDROP W/ MOGUL BASE (43)			
(1)	LAMP	4	LED 3000K, SCREW-IN TRULY GREEN SOLUTIONS (44)			36W
(2)	LUMINAIRE	1	10,500-12,000 LUMEN LED COBRAHEAD W/ NODE (42)			80W
(P)	POLE CAP KIT & NODE	4	MODIFIED POLE TOP CAP KIT, AND NODE FOR CD814E (30)			

(R) (2) RELOCATE EXISTING STREET LIGHT POLE PER PLAN. REMOVE AND DISPOSE OF EXISTING FOUNDATION, PULLBOX AND LUMINAIRE. INSTALL NEW FOUNDATION PER THE STANDARD PLAN B-3279, Rev. 14. INSTALL NEW TYPE 2 PULLBOX AND EQUIPMENT PER MATERIAL LIST.

TOTAL GENERAL BENEFIT STREETLIGHT	
SYMBOL	QUANTITY
	9

SERIES CIRCUIT CONVERTED BY THIS PLAN	
SERIES CIRCUIT NUMBER COMPLETE-(C) PARTIAL-(P)	NUMBER OF LAMPS
NONE	NONE

ALL ELECTROLIER OR JUNCTION PULLBOXES SHALL BE BURIED AS PER DETAIL "D" ADJACENT TO POLE FOUNDATION OPPOSITE OF ONCOMING TRAFFIC. ANY DEVIATION FROM THIS LOCATION SHALL BE APPROVED BY THE ENGINEER AND LOCATION MARKED IN RED ON THE PLAN BY CONTRACTOR/BCA WITH THEFOLLOWING SYMBOL: BURIED PULLBOX PER DETAIL D.
TOP SURFACE SHALL BE CONSTRUCTED TO MATCH EXISTING SURFACE.

46 INSTALL NEW 3" HDPE SDR-11 (smoothwall) ROLL PIPE (orange) CONDUIT OR EQUIVALENT. CONDUIT SHALL BE INSTALLED AT MINIMUM DEPTH OF 30" AND BE TERMINATED IN DEDICATED HANDHOLES (NEW BASIS PART NO. PCA173024-00006 OR APPROVED EQUAL). CONDUIT SHALL BE INSTALLED UNDER THE SIDEWALK/PARKWAY UP TO 4 FEET PERPENDICULAR TO THE CURB IN THE AREA DESIGNATED FOR STREET LIGHTING INSTALLATIONS. CONDUIT WILL ONLY BE INSTALLED AT OPEN TRENCH LOCATIONS (REFER TO CIVIL DRAWINGS FOR TRENCH LOCATIONS), ACTUAL FOOTAGE TO BE SHOWN ON AS-BUILT. REFER TO BSL DIRECTIVE NO. 423 FOR SPECIFICATIONS OF FIBER OPTIC CONDUIT INSTALLATION.
45 INSTALL ONE APPROVED FUSE KIT FOR EACH HOT WIRE (BLACK/RED) WITHIN THE POLE ARM, PER DETAIL "E" OR WITHIN THE LUMINAIRE OR RETROFIT KIT MOUNTING BRACKET PER DETAIL "H". SEE DETAILS ON SHEET NO. 5.
44 LAMP SHALL BE TRULY GREEN SOLUTIONS, 36W LED CATALOG NO. 318036-30-G5-E39-300 (3000K No Up Light), OR BSL APPROVED EQUAL.
43 LUMINAIRE SHALL BE AV POLES AND LIGHTINGS, CATALOG. NO. AVPL-CWW-III-INC-MOG-120-PN-SPRING STREET GREEN, OR BSL APPROVAL EQUAL. SEE DETAIL "F" ON SHEET NO. 5.
42 THE LUMINAIRE CATALOG NUMBER IS AS FOLLOW OR BSL APPROVED EQUAL.
10,500-12,000 LUMEN (LEOTEK GREENCOBRA GCM1 60J@650mA) GCM1-60J-MV-30K-3R-GY-120-PCR7-CR)
41 ALL ELECTROLIER OR JUNCTION PULLBOXES SHALL BE BURIED AS PER DETAIL "D" (SHEET 4). TOP SURFACE SHALL BE CONSTRUCTED TO MATCH EXISTING SURFACE.
40 REPLACE DAMAGED OR MISSING HAND HOLE COVERS(MAY VARY IN SIZE OR SHAPE).
39 REMOVE EXISTING MEDALLIONS TO ATTACH PED LUMINAIRE ARM TO STREET LIGHT. THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS AND USE EXTREME CARE IN REMOVING AND TRANSPORTING THE EXISTING MEDALLIONS TO THE BUREAU OF STREET LIGHTING FIELD OPERATIONS DIVISION (FOD) YARD.
38 REMOVE AND/OR ADJUST FOUNDATION CAP TO NEW GRADE.
37 REMOVE EXISTING PULLBOX. INSTALL PULLBOX OUT OF THE RAMP AREA. ADJUST PULLBOX ELEVATION TO MATCH NEW GRADE. NEW PULLBOX LOCATION SHALL COMPLY WITH GENERAL NOTE NO. 11 & 12, AND SUPPLEMENTAL NOTE NO. 5.
36 WHERE APPLICANT COMBINE BUS STOP SIGN WITH BUS STOP LIGHT.
35 CONNECT WIRES PER CIRCUIT DIAGRAM DETAIL "E" ON SHEET NO. 4. THE NO. IN BOX [(#)] INDICATES WHICH ADJACENT POLE'S SECONDARY NODE WITH CONTROL PEDESTRIAN LIGHTS.
34 LUMINAIRE ARM SHALL BE KING CATALOG #CLA-KNG-KA72-T-1-3' COLOR/SSG-KPL-20-PR, OR BSL APPROVED EQUAL. SEE DETAIL "A" ON SHEET NO. 4.
33 LUMINAIRE SHALL BE KING COACHMAN, CATALOG # CLA-K204-P4GS-III-25W(SSL)-7030-HE7-3000K-120:277-KPL10-SPRING STREET GREEN, OR BSL APPROVED EQUAL. SEE DETAIL "C" ON SHEET NO. 4.
32 INSTALL PEDESTRIAN LUMINAIRE ARM AND BRACKET ONTO EXISTING STREET LIGHTING POLE AT HEIGHT OF 15' ABOVE THE SIDEWALK, WITH LUMINAIRE ARM ORIENTED OVER THE SIDEWALK AND FACING PROPERTY LINE. LUMINAIRE ARM SHALL BE AV POLES AND LIGHTING, CATALOG NO. AVPL-LAPM-CO-SPRING STREET GREEN, OR BSL APPROVED EQUAL. SEE DETAIL "F" ON SHEET NO. 5.
31 ELECTROLIER SHALL BE KING COACHMAN POLE WITH CATALOG #CLA-KNG-KM96FC-15-COLOR/SSG, OR BSL APPROVED EQUAL. INSTALL FOUNDATION PER STANDARD PLAN B-3685, REV. 3 WITH 12" BOLT CIRCLE AND 3/4"X36"X4" ANCHOR BOLTS. SEE DETAIL "A&B" ON SHEET NO. 4.
30 INSTALL A SECONDARY NODE ON A MODIFIED POLE TOP CAP FOR CONTROLLING THE PEDESTRIAN LIGHTING ELECTROLIERS. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING POLE CAP WITH THE MODIFIED POLE TOP CAP AND SECONDARY NODE. REFER TO SUPPLEMENTAL NOTE NO. 22 FOR SECONDARY NODE PICK UP.THE MODIFIED POLE TOP CAP WITH THE PHOTOELECTRIC CONTROL STANDARD SOCKET PER INSI/NEMA C-136.10 SHALL BE PICKED UP AT THE BUREAU OF STREET LIGHTING'S RECORD COUNTER AT 1149 S. BROADWAY STE. 200, LOS ANGELES, CA 90015 FOR A NON-REFUNDABLE FEE. THE CONTRACTOR SHALL GIVE FIFTEEN WORKING DAYS NOTICE (PHONE 213-847-1498) PRIOR TO PICKING UP THIS DEVICE.
29 INSTALL ELECTROLIER WITH ITS CENTERLINE 30" BEHIND THE CURB FACE AND WITH THE LUMINAIRE ARM ORIENTED OVER THE SIDEWALK AND PERPENDICULAR TO THE STREET CENTERLINE, EXCEPT AS OTHERWISE SPECIFIED HEREON.
28 INSTALL FOUR MULTIPLE CIRCUIT WIRES. (COLOR CODE: 1-RED, 1-BLACK, 1-BLUE, 1-WHITE)
27 REMOVE EXISTING PULLBOX. INSTALL NEW PULLBOX AS SPECIFIED. ADJUST PULLBOX TO GRADE. NEW PULLBOX LOCATION SHALL COMPLY WITH GENERAL NOTE NO. 11 & 12, AND SUPPLEMENTAL NOTE NO. 5.
26 INSTALL TYPE 3 PULLBOX. ALL TYPE 3 PULLBOXES SPECIFIED SHALL BE "COMPOSITE/POLYMER" MATERIAL WITH BOLT-DOWN LID AND SHALL COMPLY WITH STANDARD PLAN "COMPOSITE TYPE 3-REV. B" AND APPROVED BY THE BUREAU OF STREET LIGHTING.
25 INSTALL TYPE 2 PULLBOX. ALL TYPE 2 PULLBOXES SPECIFIED SHALL BE "COMPOSITE/POLYMER" MATERIAL WITH BOLT-DOWN LID AND SHALL COMPLY WITH STANDARD PLAN "COMPOSITE TYPE 2-REV. B" AND APPROVED BY THE BUREAU OF STREET LIGHTING.
24 TAPE ENDS OF SPARE WIRE.
23 INSTALL THREE MULTIPLE CIRCUIT WIRES. (COLOR CODE: 1-RED, 1-BLACK, 1-WHITE)
22 REMOVE EXISTING STREET LIGHTING WIRES.
21 MULTIPLE SERVICE LOCATION. INTERCEPT CONDUIT INSTALLED BY OTHERS AND INSTALL TYPE 3 SERVICE PULLBOX. VERIFY EXACT LOCATION OF CONDUIT. PHONE DEPT. OF WATER AND POWER UNDERGROUND ENGINEERING FIVE DAYS PRIOR TO START OF WORK AT THIS LOCATION. (PHONE: 213-367-3003)
20 CONTRACTOR SHALL REQUEST A PERMIT TO PRUNE TREE FROM THE URBAN FORESTRY DIVISION (213) 847-3077, FIVE DAYS PRIOR TO THE INSTALLATION OF ELECTROLIER. ALL TREE WORK SHALL BE PERFORMED TO TREE CARE PROFESSION BEST MANAGEMENT PRACTICES AND TO THE SATISFACTION OF THE URBAN FORESTRY DIVISION.
19 INSTALL APPROVED CONNECTING DEVICES PER DETAIL "B", BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1.
18 INSTALL APPROVED CONNECTING DEVICES PER DETAIL "A", BUREAU OF STREET LIGHTING STANDARD DRAWING NO. L-301-1.
17 MULTIPLE SERVICE LOCATION. INSTALL 10' OF 2" GALVANIZED CONDUIT SERVICE RISER ON POLE. EXTEND CONDUIT TO THE ALLEY B.C. AND INSTALL TYPE 3 PULLBOX UNLESS OTHERWISE SPECIFIED. INSTALL PULLWIRE.
16 INSTALL FIVE MULTIPLE CIRCUIT WIRES: (COLOR CODE: 2-RED, 2-BLACK, 1-WHITE)
15 INSTALL TWO MULTIPLE CIRCUIT WIRES: (COLOR CODE: 1-BLACK, 1-WHITE)
14 INSTALL TWO MULTIPLE CIRCUIT WIRES: (COLOR CODE: 1-RED, 1-WHITE)
13 INSTALL 1" CONDUIT BEND.
12 INSTALL ADDITIONAL 2" CONDUIT BEND FOR TRAFFIC SIGNAL WIRING.
11 INSTALL ONE APPROVED FUSE HOLDER WITH 30 AMP FUSE BETWEEN EACH SERVICE WIRE (NOT NEUTRAL WIRE) OR SERVICE WIRE CONNECTING DEVICE AND STREET LIGHTING CIRCUIT WIRE. SERVING COMPANY WILL INSTALL SERVICE.
10 JOIN CONDUIT
9 MULTIPLE SERVICE LOCATION. INSTALL TYPE 3 PULLBOX UNLESS OTHERWISE SPECIFIED AND 10' OF 2" GALVANIZED CONDUIT SERVICE RISER ON POLE. INSTALL PULLBOX NO CLOSER THAN 5' AND NO FARTHER THAN 15' FROM THE SERVICE POLE.
8 SERIES SERVICE POLE. INSTALL ONE TERMINAL CUTOFF BOX STANDARD PLAN B-3724 WITH ONE DISCONNECTING SWITCH FOR EACH CIRCUIT. SERVING COMPANY WILL INSTALL SERVICE.
7 CONSTRUCT CASE 4 DRIVEWAY RETURN PER STANDARD PLAN NO. S-440
6 CONSTRUCT CASE 3 DRIVEWAY RETURN PER STANDARD PLAN NO. S-440.
5 INTERCEPT CONDUIT AND INSTALL PULLBOX.
4 THREAD AND CAP CONDUIT AT END OF IMPROVEMENT.
3 INSTALL CONDUIT ONLY.
2 CONNECT WIRES (PER CIRCUIT DIAGRAM WHERE APPLICABLE).
1 TERMINATE CONDUIT IN STREET LIGHTING PULLBOX.

THE ABOVE NOTES ARE APPLICABLE ONLY WHERE SPECIFIED ON THIS PLAN.

DELTA NOTES

SUPPLEMENTAL NOTES:

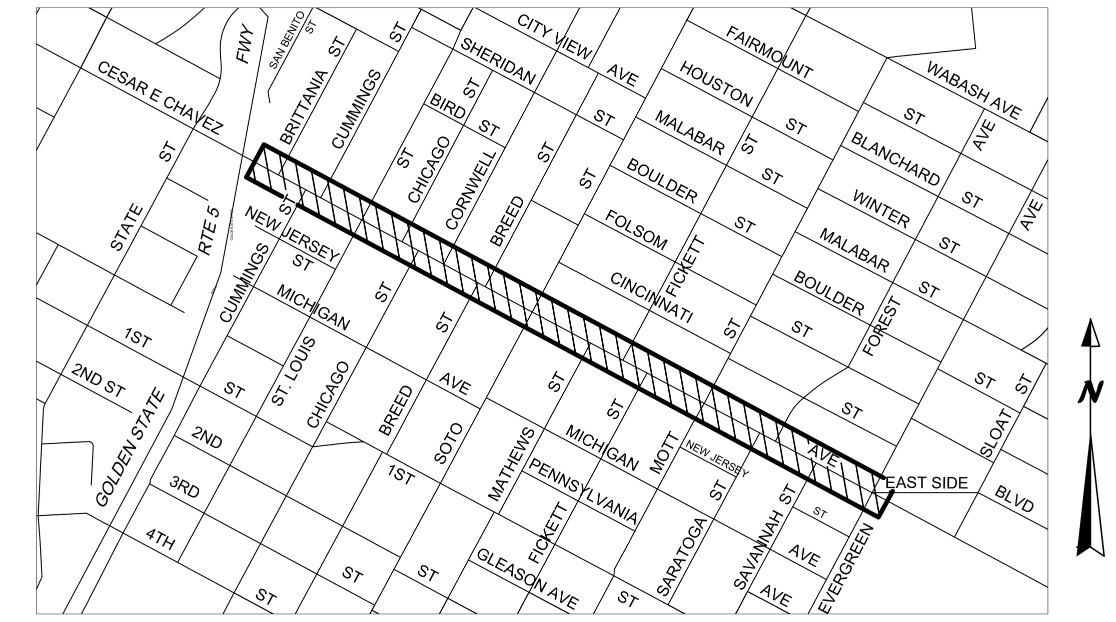
1. IN THE EVENT THE WORK IS NOT COMPLETED WITHIN SUCH TIME AS SPECIFIED IN THE CONTRACT, LIQUIDATED DAMAGES IN THE AMOUNT STATED THEREIN WILL BE DEDUCTED FROM THE AMOUNT TO BE PAID TO THE CONTRACTOR.
2. TIME SPECIFIED IN THE "PROPOSAL" FOR COMPLETION OF THE WORK INCLUDES TIME FOR PROCUREMENT AND TESTING OF EQUIPMENT TO BE INSTALLED. NOTWITHSTANDING SECTION 6-6.1 OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION. NO MATERIAL DELAY WILL BE GRANTED ON THIS PROJECT.
3. ALL ELECTROLIERS LOCATIONS ARE AT OR DIMENSIONED FROM BCR UNLESS OTHERWISE SHOWN ON THE PLAN.
4. ALL ELECTROLIER DIMENSIONS SHOWN ON THE PLAN ARE MEASURED ALONG THE CURB FACE.
5. PROPOSED ELECTROLIER FOUNDATIONS AND PULLBOXES SHALL BE INSTALLED OUTSIDE OF CURB RAMP AREAS. EXISTING FOUNDATIONS AND PULLBOXES SHALL BE RECONSTRUCTED TO CLEAR CURB RAMPS BY A MINIMUM OF 12". EXISTING CONDUIT SHALL BE LOWERED AS NECESSARY PER SEC. 307-12.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
6. PULLBOXES SHALL NOT BE PLACED IN ALLEYS. ALL SERVICE PULLBOXES OR OTHER PULLBOXES REQUIRED NEAR ALLEY APPROACHES SHALL BE INSTALLED IN ACCORDANCE WITH GENERAL NOTE NO. 11 HEREON.
7. CONTRACTOR SHALL LOCATE & PROTECT SUBSTRUCTURE(S) SHOWN HEREON, AND SHALL PROVIDE FOR A MINIMUM 12" HORIZONTAL AND VERTICAL CLEARANCE BETWEEN FOUNDATION AND SUBSTRUCTURES. IN THE EVENT A 12" CLEARANCE CANNOT BE ACHIEVED, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR RELOCATION OF SUBSTRUCTURES AT NO COST TO THE CITY.
8. UTILITIES: UTILITY LINES SHOWN ON THIS PLAN ARE FOR THE PURPOSE OF INFORMATION ONLY. PROVIDE FOR A MINIMUM 12" HORIZONTAL CLEARANCE BETWEEN FOUNDATION & STREET LIGHTING INSTALLATION. THESE LINES ARE LOCATED BY DIMENSION AND ARE NOT DRAWN TO SCALE. IN THE EVENT OF OVERHEAD COMMUNICATION LINE CONFLICT WITH ELECTROLIERS, THE CONTRACTOR SHALL MAKE THE NECESSARY ARRANGEMENTS TO PROVIDE A MINIMUM OF 12" CLEARANCE.
9. IN THE EVENT OF OVERHEAD LINES CONFLICT WITH ELECTROLIERS THE CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS WITH THE DEPARTMENT OF WATER AND POWER TO RAISE THEIR OVERHEAD FACILITIES IN ORDER TO PROVIDE FOR THE FOLLOWING CLEARANCES WITH EXISTING/OR PROPOSED ELECTROLIERS.
   LOW VOLTAGE: MINIMUM 3' CLEARANCE BETWEEN OVERHEAD LINES AND ELECTROLIER
   HIGH VOLTAGE: MINIMUM 6' CLEARANCE BETWEEN OVERHEAD LINES AND ELECTROLIER
10. CONTRACTOR SHALL MAKE ARRANGEMENTS TO DE-ENERGIZE EXISTING STREET LIGHTING SYSTEM AT THE TIME THE NEW SYSTEM IS ENERGIZED.
11. THE CONTRACTOR SHALL GIVE THE TRAFFIC SIGNAL SUPERINTENDENT (TELEPHONE: (213) 473-8465) THREE WORKING DAYS NOTICE BEFORE SCHEDULING WORK THAT WILL REQUIRE COORDINATION WITH THE DEPARTMENT OF TRANSPORTATION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, SPECIFIC WORK LOCATIONS INDICATED ON THESE PLANS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SALVAGE AND REINSTALLATION OF ALL STREET NAME, TRAFFIC SIGNS, AND NEIGHBORHOOD WATCH SIGNS ON THE PROJECT.
13. UNDERGROUND SERVICE ALERT: BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-227-2600. TWO WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED SO THAT THE UTILITY OWNERS CAN BE NOTIFIED. THE I.D. NUMBER MUST BE REPORTED TO THE BUREAU OF CONTRACT ADMINISTRATION, WHEN CALLING FOR INSPECTION. METRO (213) 485-5080; VALLEY (818) 756-8335. I.D. NUMBERS WILL NOT BE GIVEN MORE THAN TEN WORKING DAYS PRIOR TO STARTING EXCAVATION WORK.
14. UNDERGROUND UTILITIES: CONTRACTOR SHALL LOCATE, PROTECT AND MAINTAIN A MINIMUM 12" CLEARANCE FROM EDGE OF UTILITIES, VERTICAL AND HORIZONTAL. IF FIELD CONDITIONS VARY FROM THAT INDICATED, CONTRACTOR SHALL CONTACT STREET LIGHTING ENGINEER AT (213) 847-1545 FOR INSPECTION.
15. THE CONTRACTOR SHALL INSTALL ADVANCE CONSTRUCTION NOTICE SIGNS PER STANDARD PLANS S-791 NOT LESS THAN SEVEN (7) DAYS PRIOR TO START OF CONSTRUCTION AND SHALL MAINTAIN THEM FOR THE DURATION OF CONSTRUCTION, REMOVING THEM ONLY AFTER FINAL ACCEPTANCE OF THE PROJECT BY THE ENGINEER. ALL COSTS INCURRED IN FURNISHING, INSTALLATION, MAINTAINING AND REMOVING THE SIGNS SHALL BE INCLUDED WITH OTHER ITEMS FOR WHICH BIDS ARE ENTERED. THE CONTRACTOR SHALL USE TYPE I CREDIT SIGN. OTHER REQUIRED INFORMATION IS AS FOLLOWS:

MAYOR	COUNCIL PERSON	COUNCIL DISTRICT
KAREN BASS	KEVIN DE LEON	14

16. ANY EQUIPMENT SUBMITTED AS "OR EQUAL" TO THE SPECIFIED EQUIPMENT IS SUBJECT TO THE PROCEDURE AND CONDITIONS IN SECTION 4-1.6 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
17. STREET TREES SHALL NOT BE PLANTED CLOSER THAN 20' FROM EXISTING OR PROPOSED ELECTROLIER, UNLESS OTHERWISE INDICATED.
18. URBAN FORESTRY DIVISION REQUIREMENTS:
   A. TREE TRIM PERMITS: CONTRACTOR SHALL REQUEST A PERMIT TO TRIM TREE(S) BY CALLING THE BUREAU OF STREET SERVICES, STREET TREE DIVISION AT (213) 847-3077. TRIMMING SHALL BE SUPERVISED BY A CERTIFIED ARBORIST AND MEET THE CITY OF LOS ANGELES STREET TREE DIVISION'S STANDARDS, THE INTERNATIONAL SOCIETY OF ARBORICULTURE'S PRUNING GUIDELINES (ICA), AND THE AMERICAN NATIONAL STANDARDS INSTITUTE'S TREE, SHRUB, AND OTHER WOODY PLANT MAINTENANCE STANDARD PRACTICES (ANSI A 300).
   B. ROOT TRIMMING: TREE(S) MUST BE TRIMMED PRIOR TO ROOT PRUNING. CROWN OF TREE TO BE REDUCED BY NO NO MORE THAN 25% OF FOLIAGE. PRUNE ROOTS ON ONE SIDE OF ROOT SYSTEM ONLY. DO NOT PRUNE ROOTS LARGER THAN 4" DIAMETER (PERMIT IS REQUIRED).
   C. TREE REMOVAL: PRIOR TO THE REMOVAL OF ANY STREET TREE, A BOARD REPORT MUST BE SUBMITTED AND APPROVED BY THE BOARD OF PUBLIC WORKS (30-40 DAYS FROM RECEIPT OF WRITTEN APPROVAL REQUEST).
19. ON ALL STREETS POSTED "NO STOPPING", EITHER CONTINUOUSLY OR FOR SPECIFIED HOURS OF THE DAY, THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SO AS TO AVOID CONSTRUCTION OR STORAGE OF EQUIPMENT AND MATERIAL WITHIN THE ROADWAY BETWEEN THE HOURS OF 6:00 A.M. AND 9:00 A.M., AND 3:30 P.M. AND 7:00 P.M. OR FOR THE SPECIFIED HOURS WHEN STOPPING IS PROHIBITED.
20. ALL #10 AWG WIRES USED FOR MULTIPLE CIRCUIT ELECTROLIER WIRING REFERENCED IN STANDARD DRAWING NO. L-301-1 SHALL BE #10 AWG SOLID COPPER CONDUCTORS.
21. THE LUMINAIRES SPECIFIED ON THIS PLAN ARE VALID FOR ONLY 6 MONTHS FROM FINAL SIGNATURE. THE CONTRACTOR SHALL NOT ORDER ANY NEW STREET LIGHTING EQUIPMENT PRIOR TO APPROVAL BY THE BUREAU OF STREET LIGHTING, EQUIPMENT APPROVAL SECTION (M-40 FORM).
22. ALL COBRAHEAD LUMINAIRES REGARDLESS OF WATTAGE ON LOW VOLTAGE MULTIPLE CIRCUITS SHALL BE EQUIPPED WITH A REMOTE MONITORING NODE. THE UNIT SHOULD BE PICKED UP AT THE BUREAU'S PLAN COUNTER AT 1149 S. BROADWAY STE. 200, LOS ANGELES, CA 90015. THE UNITS WILL BE PROVIDED FOR A NON-REFUNDABLE FEE (APPROXIMATELY $155 PER UNIT). THE CONTRACTOR SHALL GIVE SEVEN WORKING DAYS NOTICE (PHONE 213-847-1498) PRIOR TO PICKING UP THE REMOTE MONITORING UNITS. NODES SHALL BE INSTALLED INTO THE PHOTOELECTRIC CONTROL STANDARD SOCKET PER ANSI/NEMA C-136.10. A SEPARATE P.E CELL IS NOT NEEDED FOR LUMINAIRES EQUIPPED WITH A REMOTE MONITORING NODE.
23. EQUIPMENT AND PAINTING APPROVAL:
   ALL POLES, BASES, LUMINAIRE ARMS, LEVELING DEVICES AND LUMINAIRES SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH SECTION 310-5.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION ADOPTED BY THE CITY AND SUPPLEMENTS AS MODIFIED BY THE CORRESPONDING ISSUE OF BROWN BOOK AND THE CITY OF LOS ANGELES BUREAU OF STREET LIGHTING SPECIAL SPECIFICATIONS:
   PRIMER: AMERLOCK 400, OR EQUAL, 3 MILS MINIMUM DRY FILM THICKNESS.
   FINISH COAT: AMERSHIELD DESIGNATION OR EQUAL, 3 MILS MINIMUM DRY FILM THICKNESS.
   APPROVED SAMPLES:
   CONTRACTOR SHALL SUBMIT THREE PAINT COLOR SAMPLES OF THE SPECIFIED COLOR ON 3" X 5" (MINIMUM) METAL SHEETS, ALONG WITH ALL PROPOSED EQUIPMENT PAINTING SPECIFICATIONS TO THE BSL TESTING & EQUIPMENT SECTION FOR APPROVAL ALONG WITH THE SHOP DRAWING SUBMITTAL. WRITTEN APPROVAL OF PAINT SPECS MUST BE OBTAINED PRIOR TO APPLICATION.
24. FOR NON-STANDARD OR DECORATIVE STREET LIGHTING POLES AND FOUNDATIONS, THE CONTRACTOR IS RESPONSIBLE TO SUBMIT SHOP DRAWINGS AND STRUCTURAL CALCULATIONS STAMPED BY A REGISTERED STRUCTURAL OR CIVIL ENGINEER LICENSED BY THE STATE OF CALIFORNIA. CALCULATIONS SHALL INCLUDE SEISMIC AND 85 MPH WIND LOAD FOR STREET LIGHTING POLES AND 100 MPH WIND LOAD FOR TRAFFIC SIGNAL/STREET LIGHTING COMBINATION POLES BASED ON THE MOST CURRENT ASSHTO SPECIFICATIONS. THE CONTRACTOR SHALL SUBMIT, AT THE REQUEST OF BUREAU OF STREET LIGHTING, EQUIPMENT PROTOTYPES. ALLOW 45 DAYS REVIEW AND EVALUATION. WRITTEN APPROVAL FROM THE BUREAU OF STREET LIGHTING IS REQUIRED. POLE INSPECTION BY THE BUREAU OF CONTRACT ADMINISTRATION WILL BE REQUIRED. CONTACT BSL ENGINEER AT (213) 847-1572 FOR DETAILS AND APPOINTMENT. IN ADDITION, APPROVAL OF M-40 FORM, MATERIAL APPROVAL LIST, IS MANDATORY BEFORE PURCHASING EQUIPMENT, AND IS CONTINGENT ON THE APPROVAL OF SHOP DRAWINGS, CALCULATIONS AND PROTOTYPES.
25. CONTRACTOR SHALL NOTIFY STREET LIGHTING ENGINEER (TELEPHONE: 213-847-1459) A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO WORKING ON ANY ELECTROLIER, WITH EXISTING TELECOMMUNICATION EQUIPMENT, WHICH REQUIRES REMOVAL AND/OR RELOCATION.
26. THE CONTRACTOR SHALL INSTALL ALL REQUIRED PHOTOELECTRIC CONTROL.THE CONTROLS SHOULD BE OBTAINED FROM THE DEPARTMENT OF WATER AND POWER (DWP) STREET LIGHTING MAINTENANCE HEADQUARTERS.611 NORTH HOOVER STREET, AT NO COST TO THE CONTRACTOR.A MINIMUM OF 24 HOURS ADVANCE NOTICE IS REQUIRED TO BE GIVEN TO THE DWP STREET LIGHTING SUPPLEMENTED AT (213)367-9966. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL PHOTOELECTRIC CONTROLS ISSUED BY THE DWP IN OPERATING CONDITION UNTIL SATISFACTORY COMPLETION OF THE BURN TEST.THE INSTALLED CONTROLS SHALL BE ORIENTED IN THE NORTHERLY DIRECTION."

INDEX TO SHEETS

(M)=MAJOR, (S)=SECONDARY, (L)=LOCAL, (C)=COLLECTOR STREET	FROM	TO
CESAR E CHAVEZ AVE. (S)	BRITTANIA ST. (S)	EVERGREEN AVE. (S)



KEY MAP
NO SCALE

— PROJECT AREA

THIS PROJECT IS NOT IMPACTED BY PROPOSITION 218. ASSESSMENT RATES HAVE BEEN VERIFIED FOR THIS PROJECT BY THE PROPOSITION 218 COMPLIANCE SECTION.
APPROVED [signature] RUBEN FLAMENCO DATE 9/12/23

NOTICE TO CITY INSPECTOR / CONTRACTOR
STREET LIGHTING CIRCUIT CLEARANCE

- HIGH VOLTAGE CIRCUIT CLEARANCE REQUESTS SHALL BE MADE TO DWP, AND SHALL BE PERFORMED BY DWP .
- LOW VOLTAGE CIRCUITS CLEARANCE SHALL BE PERFORMED BY THE QUALIFIED CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE PROJECT.
- MINIMUM OF FIVE WORKING DAYS PRIOR TO SERVICE POINT INSTALLATION OR NEW LOAD TIE-IN THE CONTRACTOR SHALL SUBMIT TO LADWP, ON-LINE AT **www.ladwp.com/oal**, FINAL SIGNED PLAN (IN HIGH RESOLUTION PDF) AND COORDINATE WITH CITY OF LA PROJECT INSPECTION AGENCY TO SUBMIT M21 PROTOCOL FORM. WHEN READY ALLOW A MINIMUM OF 48 HOURS AFTER M21 SUBMITTAL, THEN THE CONTRACTOR SHALL CALL (213)-367-9966 TO SCHEDULE THE WORK. USE STREET LIGHT PLAN NUMBER OR TRAFFIC SIGNAL INTERSECTION NUMBER AS REFERENCE RECORD WHEN SCHEDULE THE WORK. AFTER LOAD ACCEPTANCE BUREAU OF STREET LIGHTING ENGINEERING MUST SEND TO LADWP STREET LIGHT ENGINEERING VIA ON-LINE SUBMITTAL AS BUILT PLANS WITH CLEAR ENERGIZED DAY FOR BILLING REFERENCE ACCOUNTS.

FOR DETAILED CIRCUIT CLEARANCE PROCEDURES, SEE bsl.lacity.org (CLICK ON THE BUSINESS / CONTRACTORS LINK)

TEMPORARY STREET LIGHTING SYSTEM

TEMPORARY STREET LIGHTING SYSTEMS ARE REQUIRED FOR ALL PUBLIC RIGHT-OF-WAYS (ROADWAYS, SIDEWALKS, WALKWAYS, UNDERPASSES, DETOUR ROADS, ETC.) WHERE EXISTING STREET LIGHTING SYSTEMS ARE BEING REPLACED OR NEW STREET LIGHTING SYSTEMS ARE BEING CONSTRUCTED.

1. THE CONTRACTOR SHALL PROVIDE ALTERNATIVE LIGHTING FOR ALL PUBLIC RIGHT-OF-WAYS DURING CONSTRUCTION. THE TEMPORARY STREET LIGHTING SYSTEM SHALL BE IN OPERATION PRIOR TO REMOVING THE EXISTING STREET LIGHTING SYSTEM AND START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL SUBMIT A TEMPORARY LIGHTING PLAN INCLUDING PHOTOMETRICS TO BSL FOR APPROVAL 30 DAYS PRIOR TO THE START OF CONSTRUCTION. PLAN MUST BE SIGNED AND WET STAMPED BY A REGISTERED PROFESSIONAL CIVIL OR ELECTRICAL ENGINEER IN THE STATE OF CALIFORNIA (CALIFORNIA STATE BUSINESS AND PROFESSIONS CODE SECTION 6735)
3. THE TEMPORARY STREET LIGHTING SYSTEM SHALL PROVIDE AN AVERAGE ILLUMINATION AND UNIFORMITY AVERAGE (AVE./MIN.) TO MEET CURRENT CITY ADOPTED ILLUMINATION LEVELS UTILIZING STANDARD LIGHTING OPTICS (NO FLOODLIGHTS) OR MATCH EXISTING LIGHTING LEVELS (PENDING STREET LIGHTING ENGINEER'S APPROVAL) TEMPORARY POLES SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 30 FEET. LAMPS SHALL BE HIGH PRESSURE SODIUM OR LED, AND LUMINAIRES SHALL BE CUTOFF.
4. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE POWER UTILITY COMPANY TO OBTAIN TEMPORARY STREET LIGHTING SERVICE POINT CONFIRMATION OR SHALL PROVIDE AN ALTERNATE POWER SUPPLY.
5. THE TEMPORARY STREET LIGHTING SYSTEM MUST BE IN OPERATION FROM DUSK TO DAWN.
6. THE CONTRACTOR SHALL PROVIDE NIGHTLY PATROL AND DAILY WRITTEN REPORTS TO THE BUREAU OF STREET LIGHTING OF ALL STREET LIGHT OUTAGES AND AFFECTED STREET LIGHTING CIRCUITS (UNITS) PERTAINING TO THE CONSTRUCTION AND EXECUTION OF THE TEMPORARY LIGHTING SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING STREETLIGHTS OUT OF SERVICE WITHIN 24 HOURS.
7. INSTALLATION AND OPERATION OF THE TEMPORARY LIGHTING SYSTEM SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES INCLUDING BUT NOT LIMITED TO SECTION 209 OF THE LATEST EDITION OF THE STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION. ("GREENBOOK")
8. THE CONTRACTOR SHALL BE RESPONSIBLE (INCLUDING ALL RELATED COSTS) FOR THE INSTALLATION, OPERATION, MAINTENANCE, REMOVAL, AND LIABLE FOR THE TEMPORARY STREET LIGHTING SYSTEM (EQUIPMENT).
9. STREET LIGHTS INSTALLED ON TEMPORARY TRAFFIC SIGNAL POLES SHALL BE IN ACCORDANCE WITH THE LATEST LADOT SPECIAL PROVISIONS AND STANDARD DRAWINGS FOR THE INSTALLATION AND MODIFICATION OF TRAFFIC SIGNALS.
10. TEMPORARY STREET LIGHTING PLAN SHALL BE SIGNED AND WET STAMPED BY LICENCED CIVIL/ELECTRICAL PROFESSIONAL ENGINEER.

BOYLE HEIGHTS/CESAR CHAVEZ FROM WARREN TO EVERGREEN AVE.

W.O. E1908099

REVISIONS				APPROVALS	
SYM.	DESCRIPTION	BY	DATE	DIRECTOR BUR. OF ST. LIGHTING	CITY ENG'R.

CITY OF LOS ANGELES
FABIAN CHENG, ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

APPROVALS

DIVISION OR DEPARTMENT	ENGINEER	DATE
WASTEWATER SYS. ENG. DIV.		
DRAINAGE SYS.ENG. DIV.		
URBAN FORESTRY DIV.		
DEPT. OF TRANS.-TRAF. SIGS.		
ST. OPENING & WIDENING DIV.		
ENGINEERING DISTRICT		
STREET SERVICES		

Sandy Truong — ST. LTG. DIVISION MANAGER — R.E. NO. E16373 — DATE 9/6/23
[signature] — SENIOR ST. LTG. ENGINEER — R.E. NO. C049990 — DATE 9/11/23
APPROVED 9/11/23
BY [signature] For/ ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

REGISTERED PROFESSIONAL ENGINEER — ASAAD Y ALNAJJAR — C 49990 — Exp. 6/2025 — AA — CIVIL — STATE OF CALIFORNIA

SCALE OF ORIGINAL PLAN : NONE

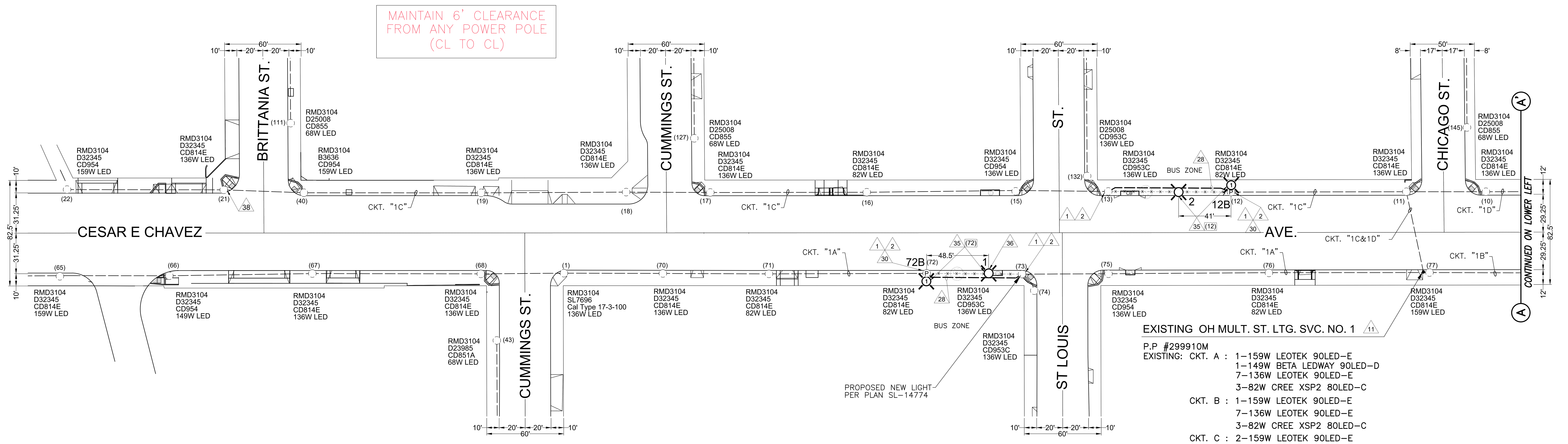
SHEET 36 OF 40 SHEETS

INDEX NUMBER SL-13808

CONTRACTOR:
INSPECTED BY:
DATE ENERGIZED: ELECTS.: LAMPS:
DATE ENERGIZED: ELECTS.: LAMPS:
DATE ENERGIZED: ELECTS.: LAMPS:
CORRECTED TO "AS BUILT" DATE
BY CHECKED

SLSM 129A223, 129A225, 127-5A225, 127-5A227
P.M. NO. 293, 294, 310
SUPERSEDES PLAN NO.
ELECTROLIER UNITS: 5 LUMINAIRE UNITS: 10
COUNCIL DISTRICT: 14
THOMAS GUIDE: 635-4A, 635-4B, 635-5B, 635-5C
FILE LOCATION:H:\CPD\SECTION\GRANT FUNDED PROJ\MEHRBANOO'S PROJECTS\BOYLE HEIGHTS-CESAR CHAVEZ\CAD\E1908099 BOYLE HEIGHT-CESAR CHAVEZ PLAN.DWG

	SIGNATURE		DATE
FIELD SURVEY BY:	MEHRBANOO FAREHI	(MF)	07/2021
DRAWN BY:	TAE I. LEE	(TL)	06/2021
DESIGNED BY:	MEHRBANOO FAREHI	(MF)	07/2023
CHECKED BY;	DIEP NGUYEN	(DN)	07/2023
SUPERVISED BY;	DIEP NGUYEN	(DN)	07/2023



EXISTING OH MULT. ST. LTG. SVC. NO. 1

P.P #299910M

EXISTING: CKT. A : 1-159W LEOTEK 90LED-E
1-149W BETA LEDWAY 90LED-D
7-136W LEOTEK 90LED-E
3-82W CREE XSP2 80LED-C

CKT. B : 1-159W LEOTEK 90LED-E
7-136W LEOTEK 90LED-E
3-82W CREE XSP2 80LED-C

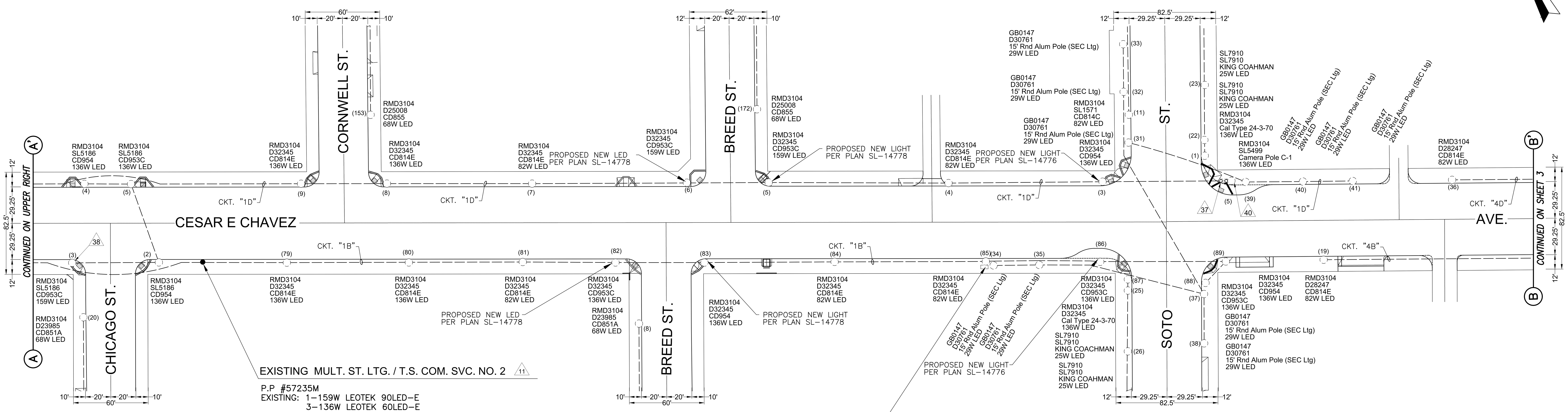
CKT. C : 2-159W LEOTEK 90LED-E
6-136W LEOTEK 90LED-E
3-82W CREE XSP2 80LED-C

CKT. D : 3-159W LEOTEK 90LED-E
5-136W LEOTEK 90LED-E
2-82W CREE XSP2 80LED-C

INSTALL: CKT. A : 1-25W KING COACHMAN LED, NO. 1
1-36W TRULY GREEN LED, NO. 72B

CKT. C : 1-25W KING COACHMAN LED, NO. 2
1-36W TRULY GREEN LED, NO. 12B

NOTE: INSTALL NO. 6 AWG MULT. WIRES



EXISTING MULT. ST. LTG. / T.S. COM. SVC. NO. 2

P.P #57235M
EXISTING: 1-159W LEOTEK 90LED-E
3-136W LEOTEK 60LED-E
NO CHANGE

EXISTING MULT. ST. LTG. SVC. NO. 3

P.P #299935M
EXISTING: 11-100W HPS
NO CHANGE

BOYLE HEIGHTS/CESAR CHAVEZ FROM WARREN TO EVERGREEN AVE.

W.O. E1908099

CITY OF LOS ANGELES
FABIAN CHENG, ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

STREET LIGHTING

DATE 9/11/23

For ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

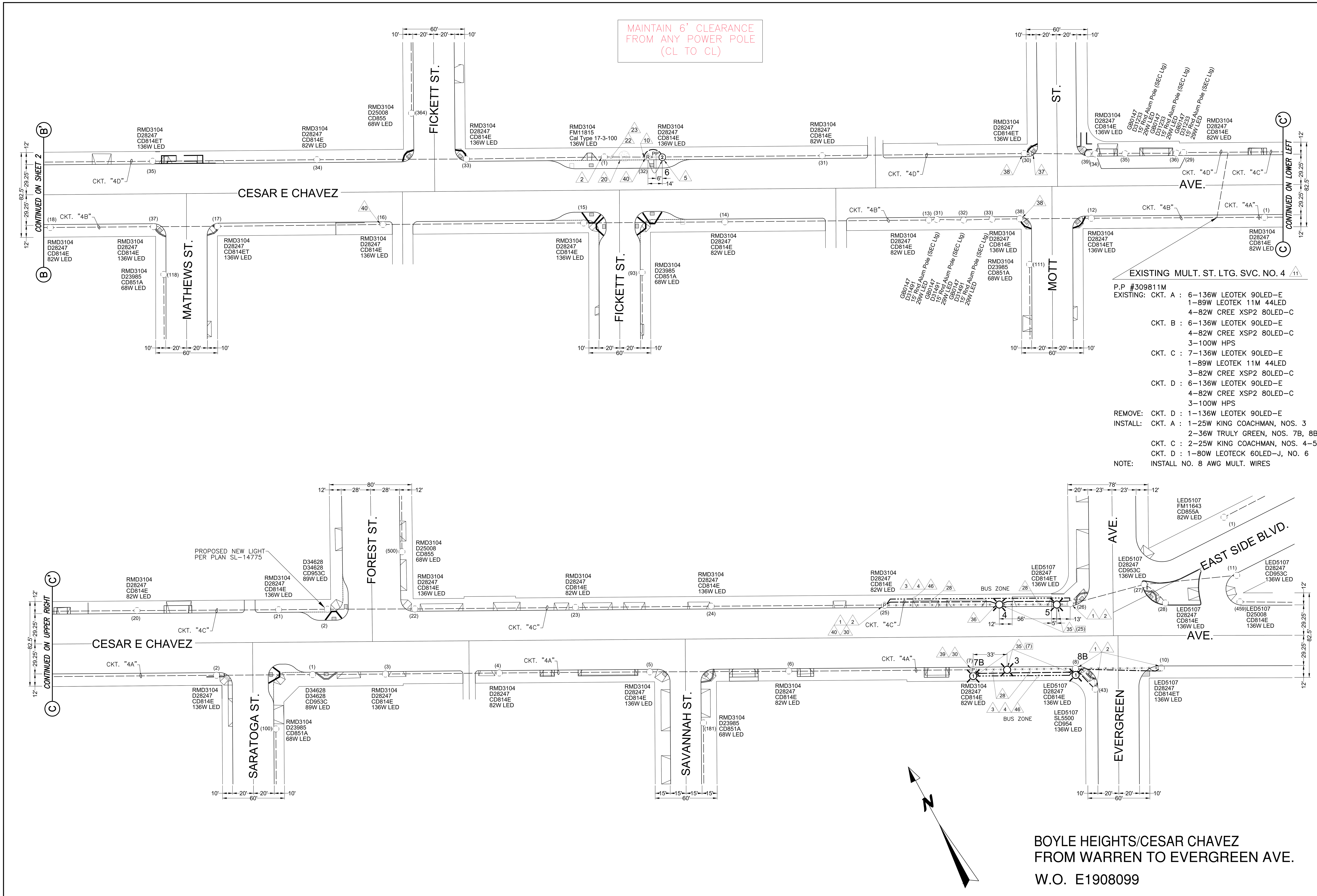
SYM.	REVISION DESCRIPTION	DIVISION ENGINEER BUREAU OF ST. LTG.	DATE

CONTRACTOR
INSPECTED BY
DATE ENERGIZED ELECTS. LAMPS:
DATE ENERGIZED ELECTS. LAMPS:
DATE ENERGIZED ELECTS. LAMPS:
CORRECTED TO "AS BUILT" DATE
BY ______ CHECKED

SCALE OF ORIGINAL PLAN: 1" = 40'

SHEET 37 OF 40 SHEETS

INDEX NUMBER SL-13808



EXISTING MULT. ST. LTG. SVC. NO. 4 (11)

P.P #309811M

EXISTING:	CKT. A :	6–136W LEOTEK 90LED–E 1–89W LEOTEK 11M 44LED 4–82W CREE XSP2 80LED–C
	CKT. B :	6–136W LEOTEK 90LED–E 4–82W CREE XSP2 80LED–C 3–100W HPS
	CKT. C :	7–136W LEOTEK 90LED–E 1–89W LEOTEK 11M 44LED 3–82W CREE XSP2 80LED–C
	CKT. D :	6–136W LEOTEK 90LED–E 4–82W CREE XSP2 80LED–C 3–100W HPS
REMOVE:	CKT. D :	1–136W LEOTEK 90LED–E
INSTALL:	CKT. A :	1–25W KING COACHMAN, NOS. 3 2–36W TRULY GREEN, NOS. 7B, 8B
	CKT. C :	2–25W KING COACHMAN, NOS. 4–5
	CKT. D :	1–80W LEOTECK 60LED–J, NO. 6
NOTE:		INSTALL NO. 8 AWG MULT. WIRES

BOYLE HEIGHTS/CESAR CHAVEZ
FROM WARREN TO EVERGREEN AVE.
W.O. E1908099

CONTRACTOR
INSPECTED BY
DATE ENERGIZED — ELECTS. — LAMPS:
DATE ENERGIZED — ELECTS. — LAMPS:
DATE ENERGIZED — ELECTS. — LAMPS:
CORRECTED TO "AS BUILT" — DATE
BY — CHECKED

PLAN DRAFTING FILE NO.

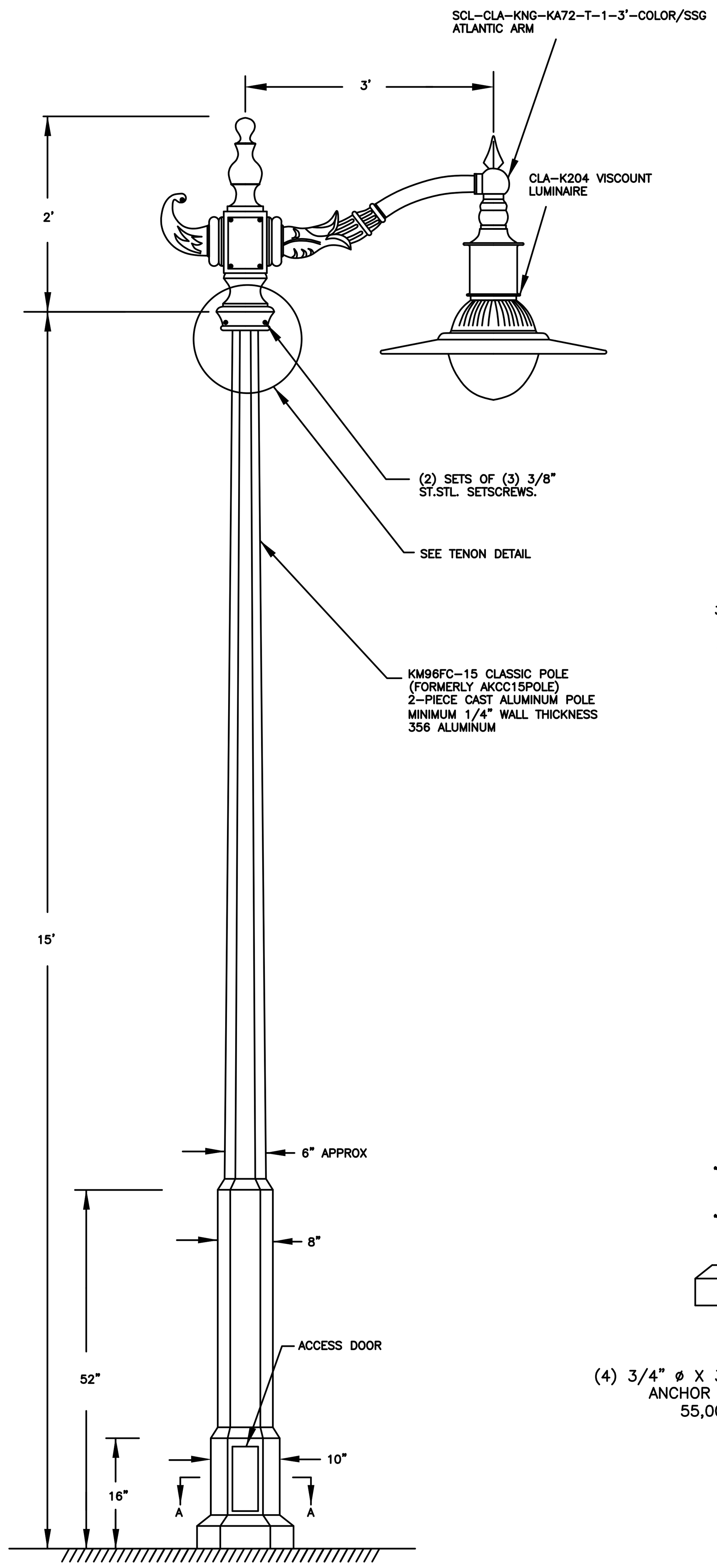
SYM.	REVISION	DESCRIPTION	DIVISION ENGINEER BUREAU OF ST. LTG.	DATE

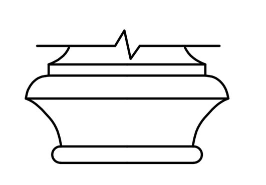
CITY OF LOS ANGELES
FABIAN CHENG, ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING
STREET LIGHTING
DATE 9/11/23
For ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

SCALE OF ORIGINAL PLAN: 1" = 40' — 40 20 0 20 40 60 80 feet

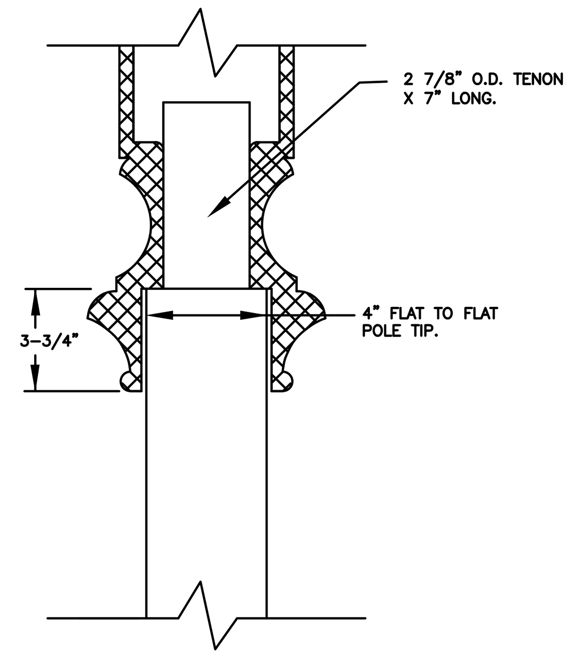
SHEET 38 OF 40 SHEETS

INDEX NUMBER SL-13808

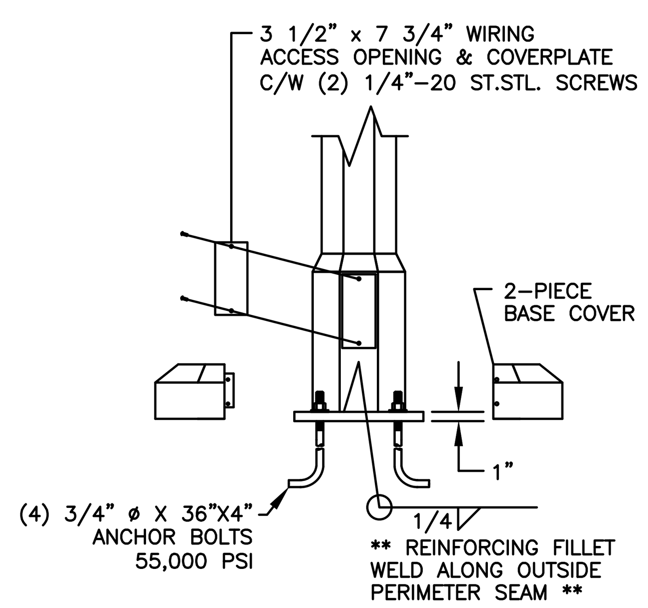




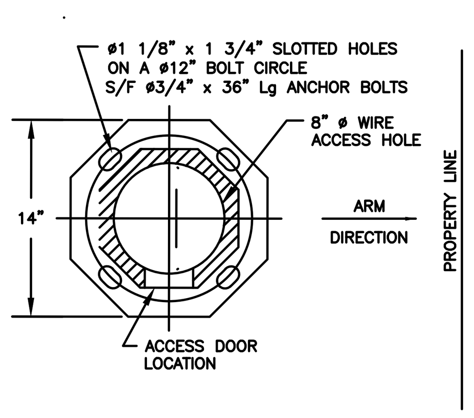
"OPTION 1"
TO FIT UP TO A 4.5" DIA. POLE
TOP C/W A 2.5" IPS
(2 7/8" O.D.) TENON
x 7" LONG



TENON DETAIL

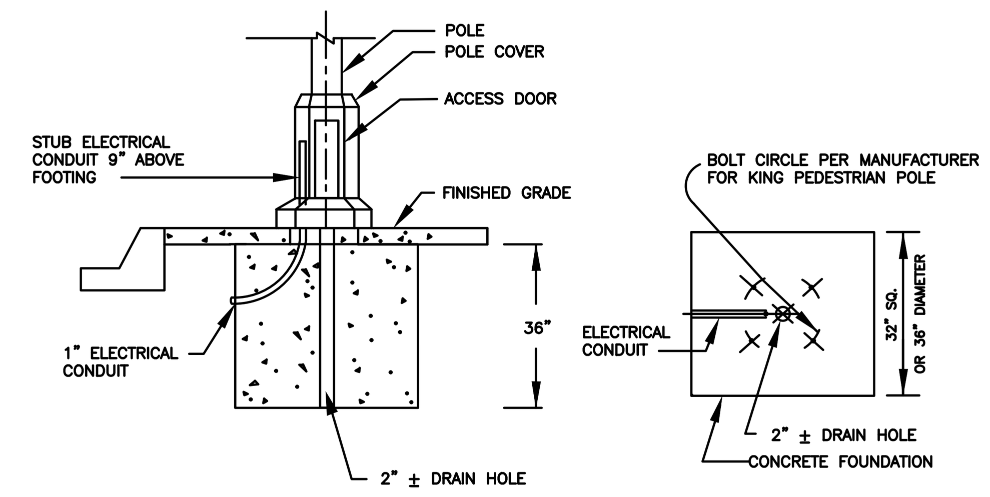


BASE DETAIL
NOT TO SCALE

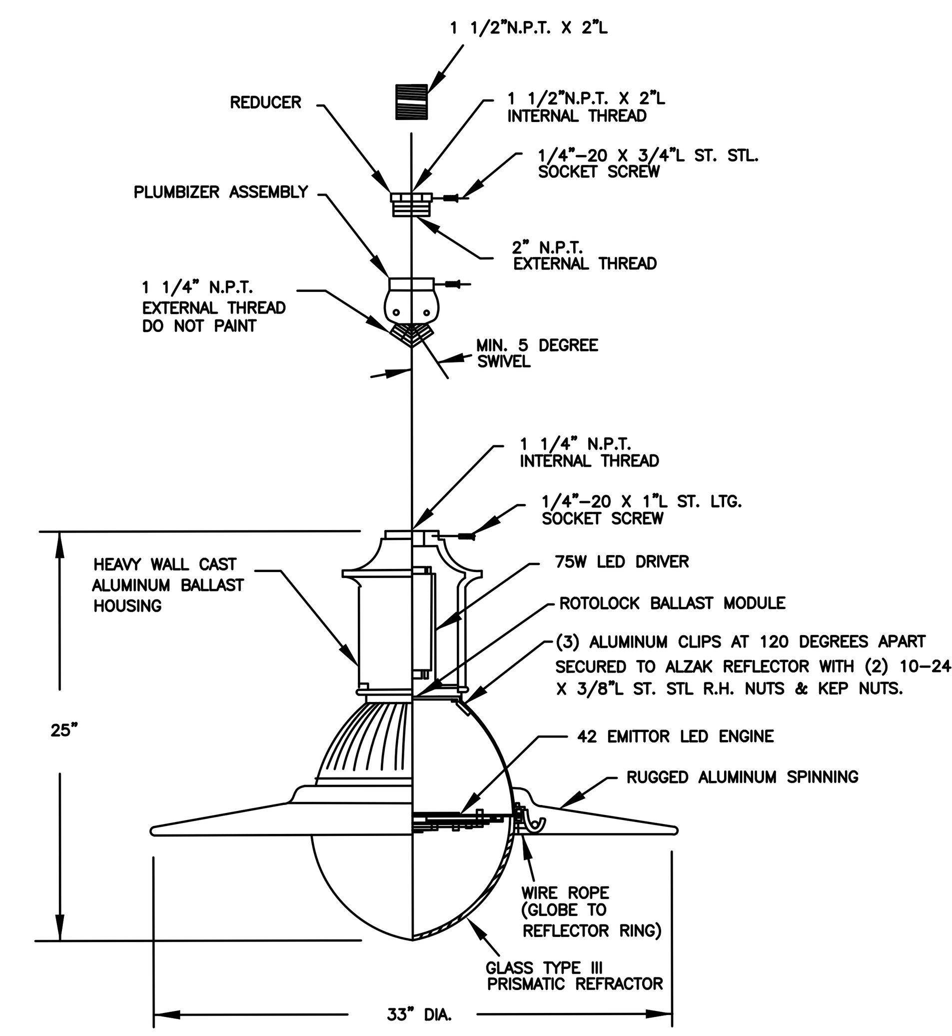


BOLT CIRCLE SECTION A-A
NOT TO SCALE

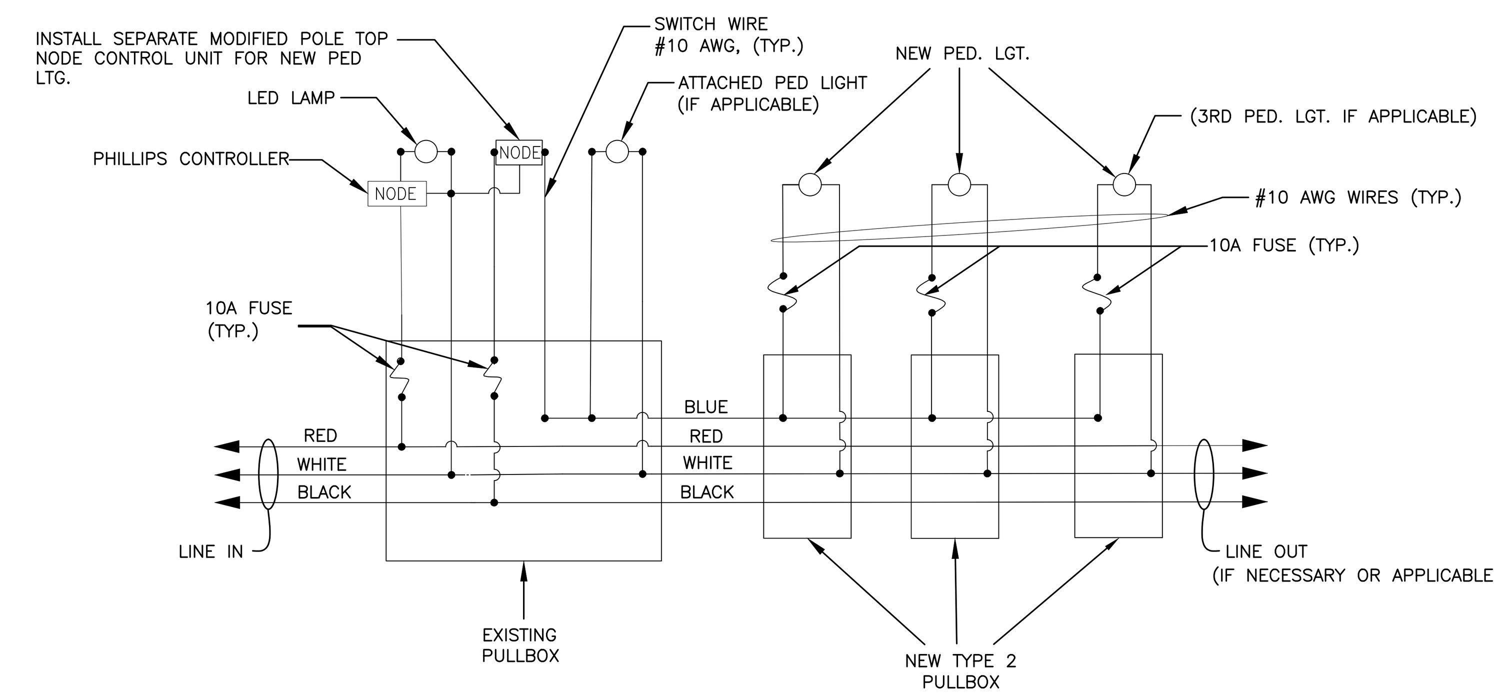
DETAIL "A" - PEDESTRIAN POLE AND ARM 31 34
NOT TO SCALE



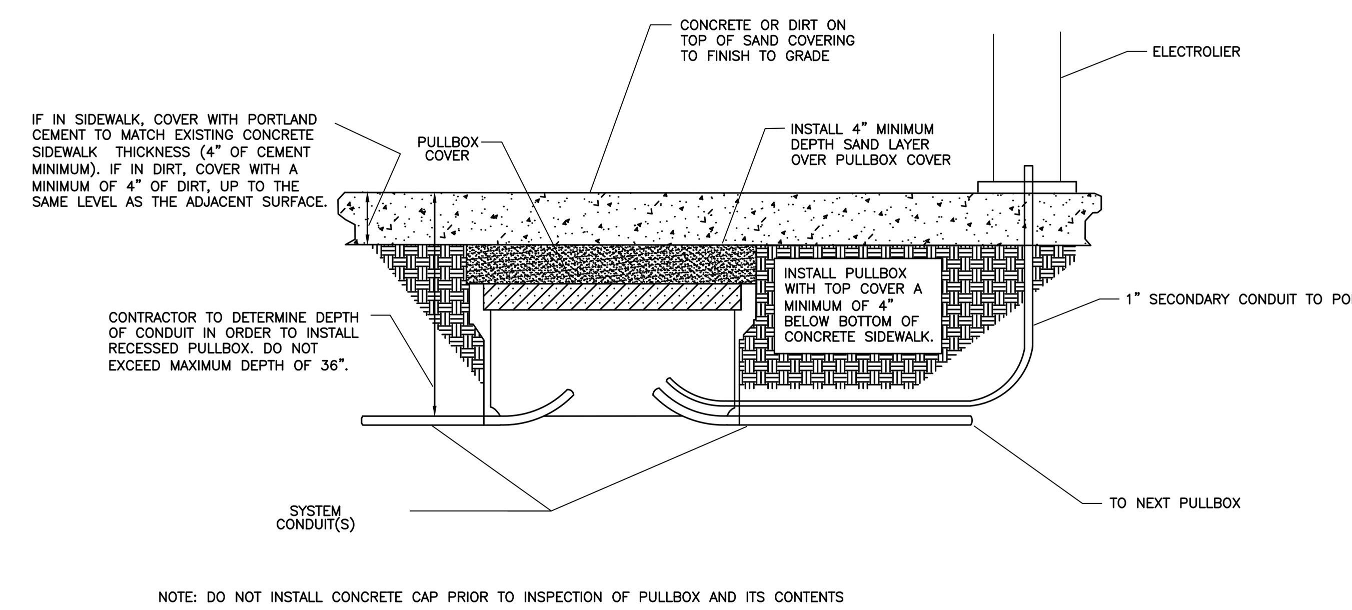
DETAIL "B" - FOUNDATION 31
NOT TO SCALE



DETAIL "C" - LUMINAIRE 33
NOT TO SCALE



DETAIL "E" - TYPICAL CIRCUIT DIAGRAM 28 30 35
NOT TO SCALE



NOTE: DO NOT INSTALL CONCRETE CAP PRIOR TO INSPECTION OF PULLBOX AND ITS CONTENTS

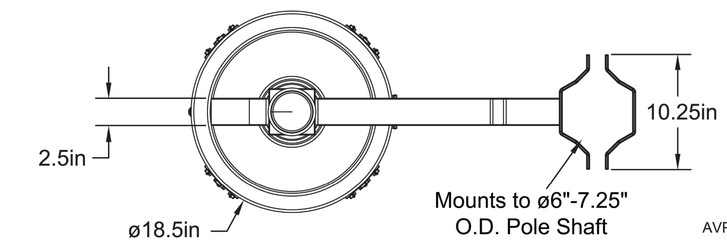
DETAIL "D" - INSTALLATION OF PULLBOX BELOW GRADE 41
NOT TO SCALE

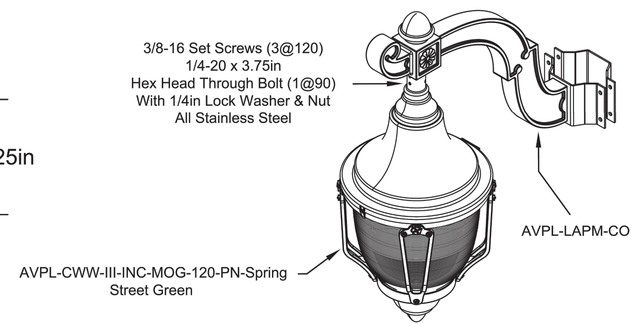
BOYLE HEIGHTS/CESAR CHAVEZ
FROM WARREN TO EVERGREEN AVE.

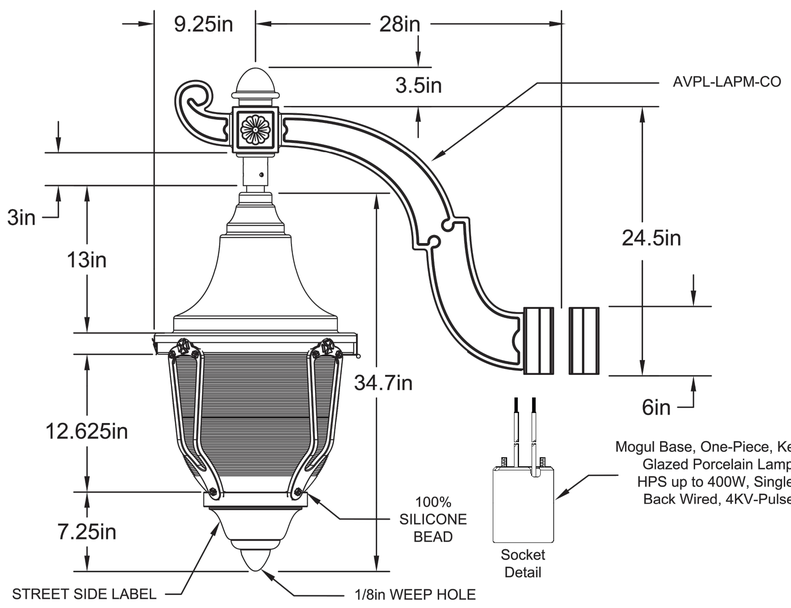
W.O. E1908099

CITY OF LOS ANGELES
FABIAN CHENG, ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING
STREET LIGHTING
DATE 9/11/23
For ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

SCALE OF ORIGINAL PLAN: NONE	SHEET 39 OF 40 SHEETS	INDEX NUMBER SL-13808





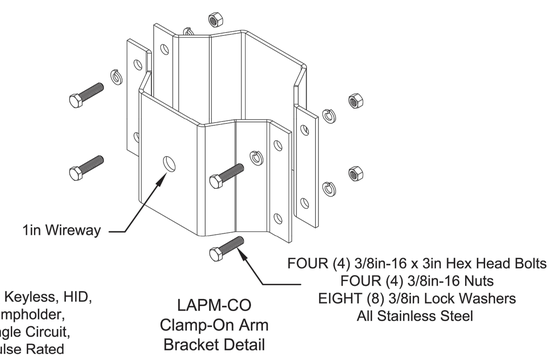


DECORATIVE ARM: A356 CAST ALUMINUM. MIN WALL THICKNESS .375in.

FIXTURE HOUSING: SPUN AND CAST ALUMINUM CONSTRUCTION.

POLE CLAMP: 0.188in HOT-ROLLED STEEL.

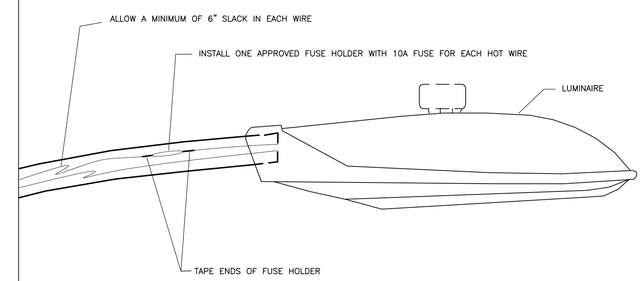
NOTES: 1) ALL EXTERIOR HARDWARE IS STAINLESS STEEL
2) EPDM CLOSED CELL GASKET
3) ASSEMBLY COMPLIES WITH AASHTO 2001



Mogul Base, One-Piece, Keyless, HID, Glazed Porcelain Lampholder, HPS up to 400W, Single Circuit, Back Wired, 4KV-Pulse Rated

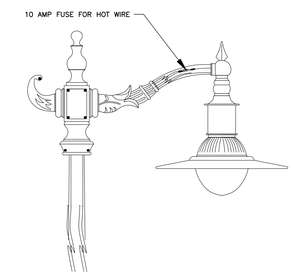
DETAIL "F" – LUMINAIRE CLAMP ON BRACKET WITH ARM DETAIL 32 43

NOT TO SCALE



DETAIL "G" – FUSE KIT INSIDE LUMINAIRE ARM 45

NOT TO SCALE



DETAIL "H" – INSTALLATION OF FUSE KIT FOR KING COACHMAN 45

NOT TO SCALE

BOYLE HEIGHTS/CESAR CHAVEZ
FROM WARREN TO EVERGREEN AVE.

W.O. E1908099

CONTRACTOR			
INSPECTED BY			
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DATE ENERGIZED	ELECTS:	LAMPS:	
DATE ENERGIZED	ELECTS:	LAMPS:	
CORRECTED TO "AS BUILT"			
BY		CHECKED	DATE

PLAN DRAFTING FILE NO.: H:\OPV\SECTION\GRANT FUNDED PROJ\MEHRBANOO'S PROJECTS\BOYLE HEIGHTS-CESAR CHAVEZ\CAD\E1908099 BOYLE HEIGHT-CESAR CHAVEZ PLAN.DWG

SYM.	REVISION	DESCRIPTION	DIVISION ENGINEER BUREAU OF ST. LTG.	DATE

CITY OF LOS ANGELES

FABIAN CHENG, ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

STREET LIGHTING

DATE 9/11/23

For/ ASSISTANT DIRECTOR BUREAU OF STREET LIGHTING

SCALE OF ORIGINAL PLAN: NONE

SHEET 40 OF 40 SHEETS

INDEX NUMBER SL-13808