ACNH-P060(138)E

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	1	124

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON
STATE HIGHWAY

IN LOS ANGELES COUNTY
IN DIAMOND BAR AND POMONA
FROM 0.8 MILE WEST OF GRAND AVENUE OVERCROSSING
TO SAN BERNARDINO COUNTY LINE

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
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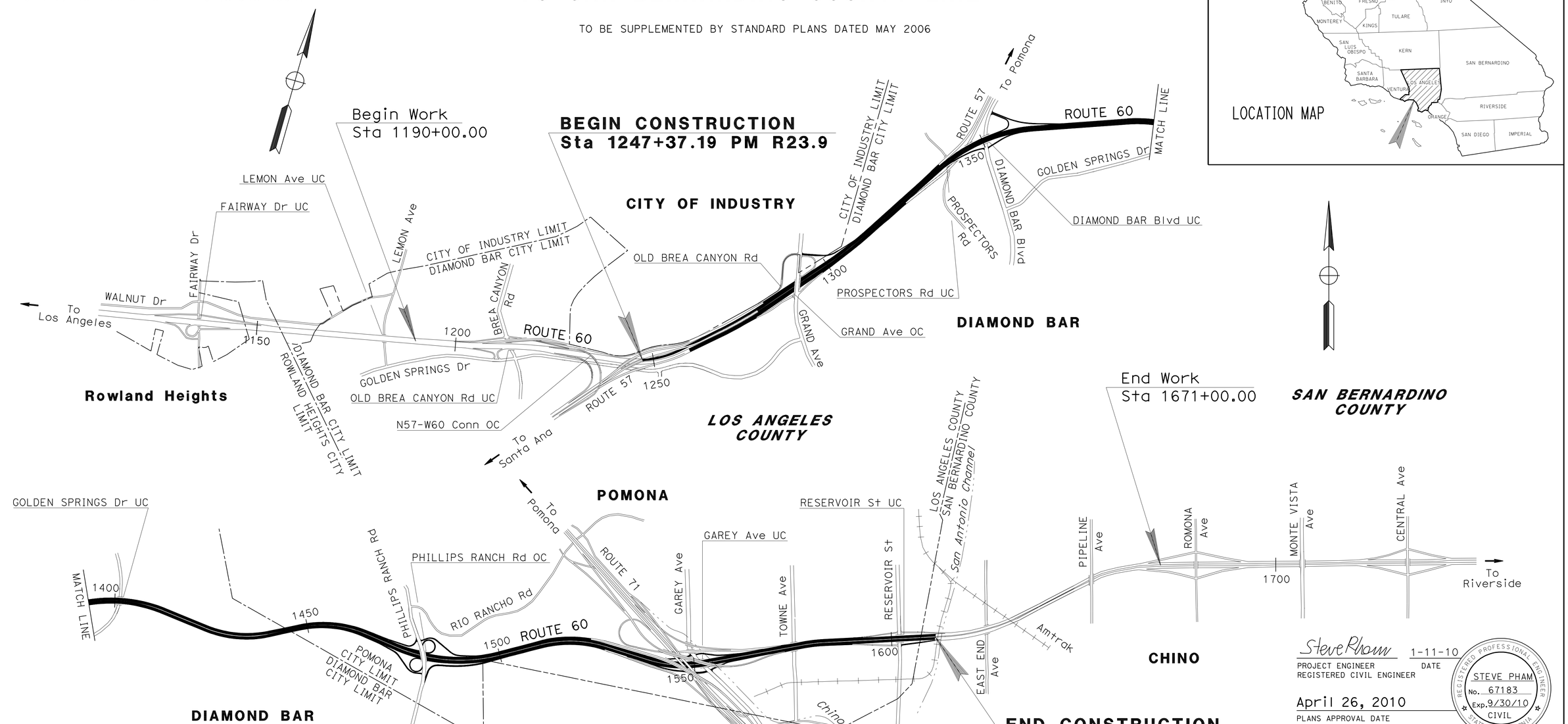
35-38	CONSTRUCTION DETAILS
39-66	UTILITY PLANS
67	CONSTRUCTION AREA SIGNS
68-77	TRAFFIC HANDLING DETAILS
78-90	PAVEMENT DELINEATION QUANTITIES
91-92	SUMMARY OF QUANTITIES
93-98	ELECTRICAL PLANS
99-124	REVISED AND NEW STANDARD PLANS

THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

LOCATION MAP



THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS."

Steve Pham 1-11-10
PROJECT ENGINEER DATE
REGISTERED CIVIL ENGINEER

April 26, 2010
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PROJECT MANAGER JIWANJIT PALAHA
DESIGN ENGINEER STEVE PHAM

LAST REVISION 00-00-00
DATE PLOTTED => 15-JUN-2010
TIME PLOTTED => 10:17

CONTRACT No. 07-253304

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	2	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. SUPERELEVATIONS AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. LOCATIONS AND LIMITS OF PAVEMENT STRUCTURAL SECTIONS ARE SHOWN ON THE LAYOUTS AND CONSTRUCTION DETAILS.
4. REPLACEMENT OF DAMAGED BASE WILL BE DETERMINED BY THE ENGINEER.
5. OMIT GRINDING ON AC PAVEMENT, BRIDGE DECKS, AND APPROACH AND DEPARTURE SLABS.
6. FOR ACCURATE COMPLETE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
7. THE CONTRACTOR SHALL REMOVE EXISTING PAVEMENT MARKERS PRIOR TO GRINDING.

ABBREVIATIONS:

CTPBRS	CEMENT TREATED PERMEABLE BASE RAPID SETTING
LCBRS	LEAN CONCRETE BASE RAPID SETTING
RHMA-G	RUBBERIZED HOT MIXED ASPHALT (GAP GRADED)
RSC	RAPID STRENGTH CONCRETE

TYPICAL PAVEMENT STRUCTURAL SECTIONS

EXISTING

A
- 0.95′ AC
- 0.60′ LCB
- 1.10′ CL 3 AB

B
- 0.67′ PCC
- 0.35′ CTB (CI A)
- 0.33′ CI 3 AB
- 0.65′ CI 4 AS

C
- 0.75′ PCC
- 0.50′ CTB (CI A)
- 0.25′ CI 3 AB
- 0.50′ CI 4 AS

D
- 0.35′ AC (TYPE B)
- 0.70′ CI 2 AB
- 0.95′ CI 4 AS

E
- Var CI 4
- AGGREGATE
- SUB-BASE

F
- 0.85′ PCC
- 0.50′ LCB
- 0.70′ CI 3 AB

G
- 0.95′ PCC
- 0.50′ LCB
- 0.70′ CI 3 AB

H
- 0.85′ PCC
- 0.50′ LCB
- 0.70′ CI 3 AB

I
- 0.65′-0.75′ AC
- 0.55′-0.75′ LCB
- 0.90′, 0.95′ & Var AS

J
- 0.35′ AC
- 0.65′-0.75′ PCC
- 0.35′-0.50′ CTB
- 0.25′-0.55′ AB
- 0-0.65′ AS

K
- 0.35′ AC
- 0.85′ PCC
- 0.50′ LCB
- 0.70′ AB

L
- 0.30′-0.40′ AC
- 0.55′-0.75′ LCB
- 0.90′, 0.95′ & Var AS

M
- 0.65′-0.75′ PCC
- 0.35′-0.50′ CTB
- 0.25′-0.55′ AB
- 0-0.65′ AB

N
- 0.35′ AC
- 0.65′-0.70′ PCC
- 0.45′ CTPB
- 0.50′-0.55′ AB

PROPOSED

1
- 0.75′ RSC
- ---- BOND BREAKER
- 0.50′ LCBRS

2
- 0.95′ RSC
- ---- BOND BREAKER
- 0.50′ LCBRS

3
- COLD PLANE AC Pvmt (0.35′ Max)
- 0.20′ RHMA-G
- ---- GEOSYNTHETIC Pvmt INTERLAYER
- 0.15′ HMA (TYPE B)

4
- COLD PLANE AC Pvmt (0.20′ Max)
- 0.20′ RHMA-G

5
- 0.85′ RSC
- ---- BOND BREAKER
- 0.50′ LCBRS

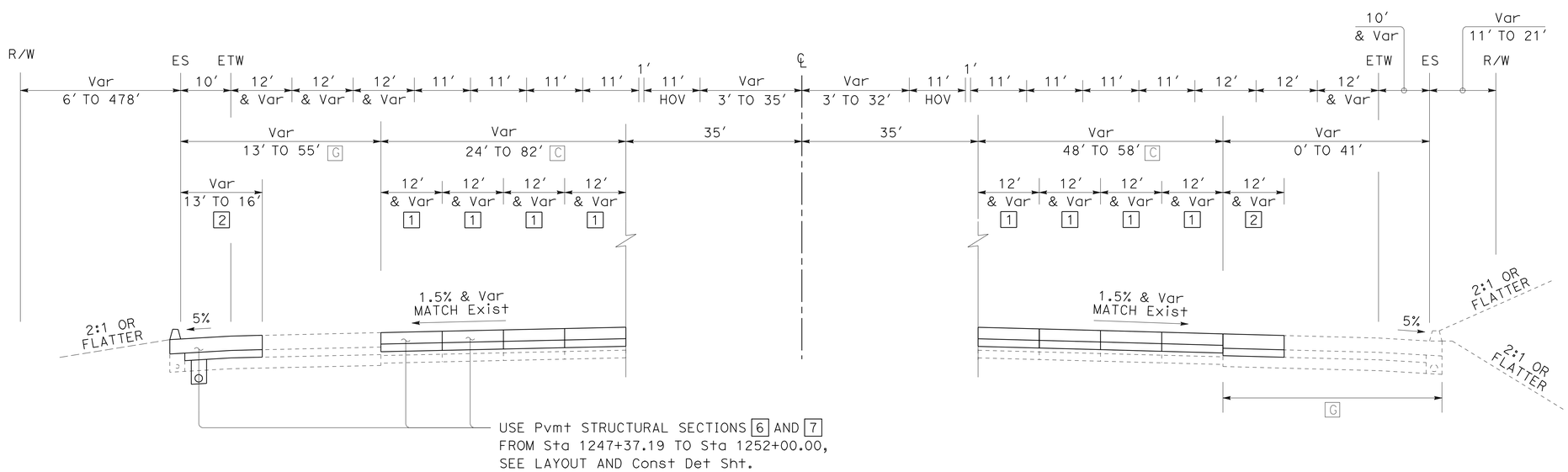
6
- 0.95′ RSC
- ---- BOND BREAKER
- 0.50′ LCBRS
- 2.05′ CTPBRS

7
- 0.75′ RSC
- ---- BOND BREAKER
- 0.50′ LCBRS
- 2.25′ CTPBRS

8
- 0.65′-0.75′ HMA (TYPE B)
- 0.55′-0.75′ LCBRS
- 2.00′-2.30′ CTPBRS

9
- COLD PLANE AC Pvmt (0.35′ Max)
- 0.20′ RHMA-G
- ---- GEOSYNTHETIC Pvmt INTERLAYER
- 0.15′ HMA (TYPE B)
- 0.85′ RSC
- ---- BOND BREAKER
- 0.50′ LCBRS
- 1.80′ CTPBRS

10
- COLD PLANE AC Pvmt (0.35′ Max)
- 0.20′ RHMA-G
- ---- GEOSYNTHETIC Pvmt INTERLAYER
- 0.15′ HMA (TYPE B)
- 0.65′-0.75′ RSC
- ---- BOND BREAKER
- 0.35′-0.50′ LCBRS
- 1.90′-2.15′ CTPBRS



WESTBOUND
Sta 1247+37.19 TO 1305+25.93

ROUTE 60

EASTBOUND
Sta 1259+32.00 TO 1310+69.31

TYPICAL CROSS SECTIONS

NO SCALE

X-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:43

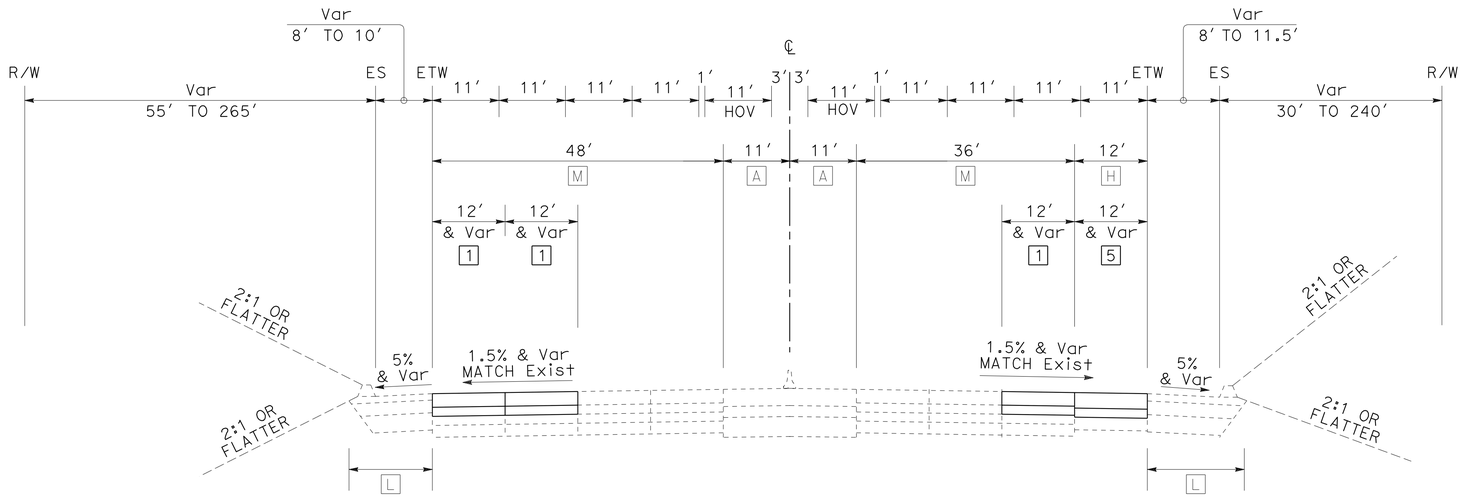
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	3	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



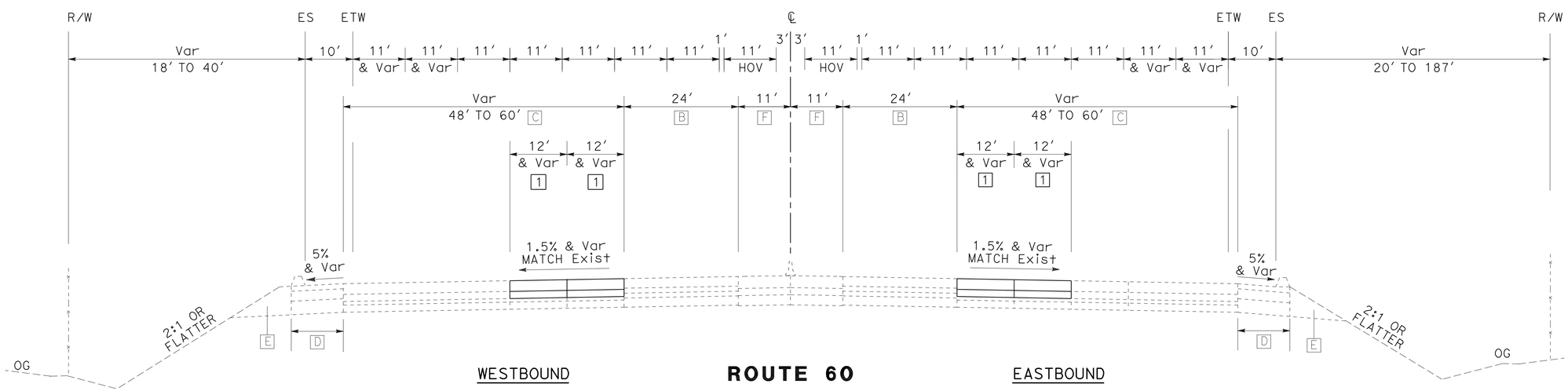
WESTBOUND

Sta 1346+88.25 TO Sta 1349+77.50
Sta 1340+75.00 TO Sta 1344+78.00

ROUTE 60

EASTBOUND

Sta 1344+92.00 TO Sta 1349+38.02



WESTBOUND

Sta 1305+25.93 TO Sta 1339+08.37

ROUTE 60

EASTBOUND

Sta 1310+69.31 TO Sta 1338+73.42

TYPICAL CROSS SECTIONS

NO SCALE

X-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	4	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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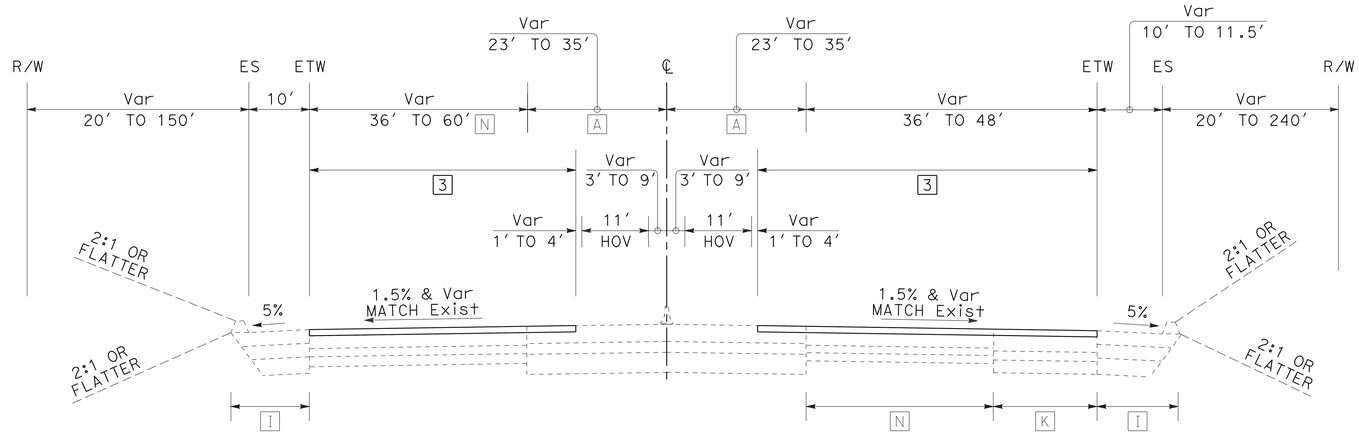
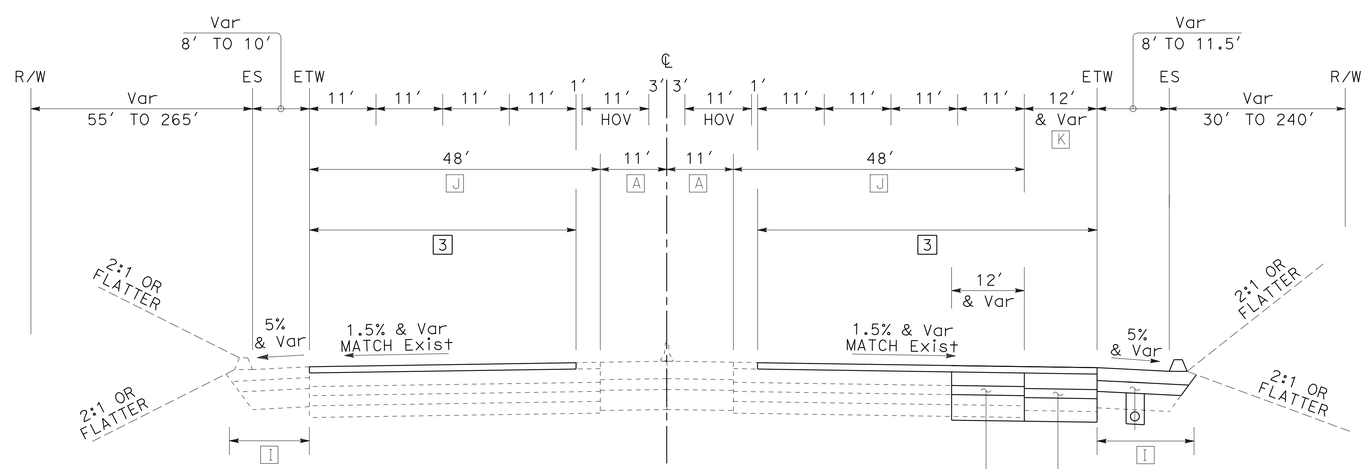


WESTBOUND **ROUTE 60** EASTBOUND

Sta 1375+80.22 TO Sta 1400+29.08
Sta 1402+28.75 TO Sta 1404+30.22
Sta 1444+10.22 TO Sta 1528+00.22



USE Pvmt STRUCTURAL SECTIONS 8 , 9 , AND 10 FROM Sta 1362+19.85 TO Sta 1368+00.00, SEE LAYOUT AND Const Det Sht.

WESTBOUND **ROUTE 60** EASTBOUND

Sta 1351+85.00 TO Sta 1375+80.22 Sta 1351+70.75 TO Sta 1375+80.22

TYPICAL CROSS SECTIONS

NO SCALE **X-3**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY SHAO-CHIANG LIU
CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:44

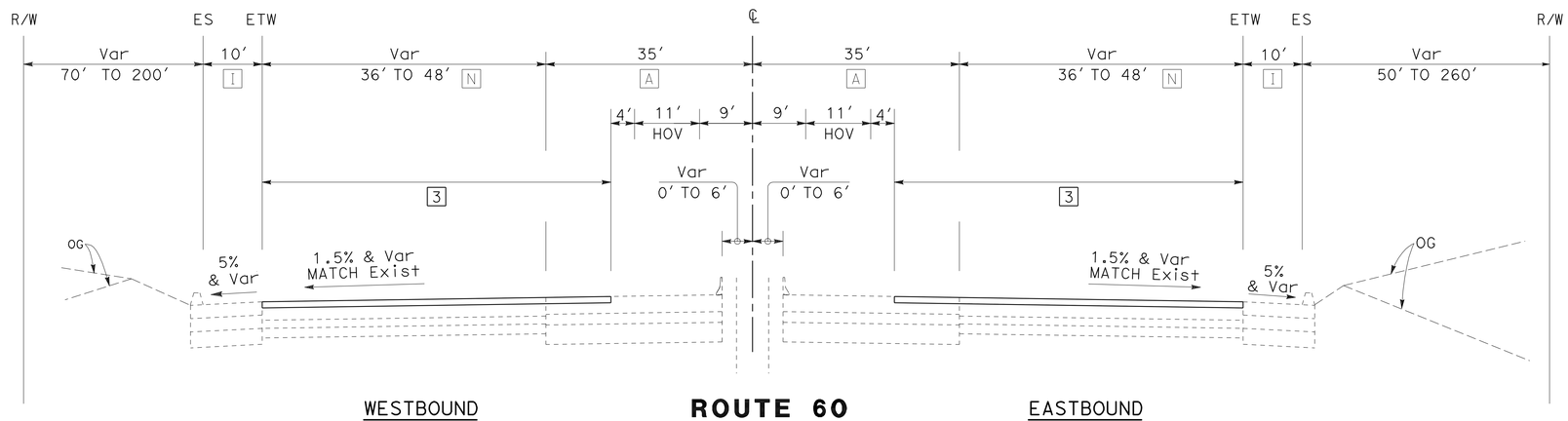
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	5	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

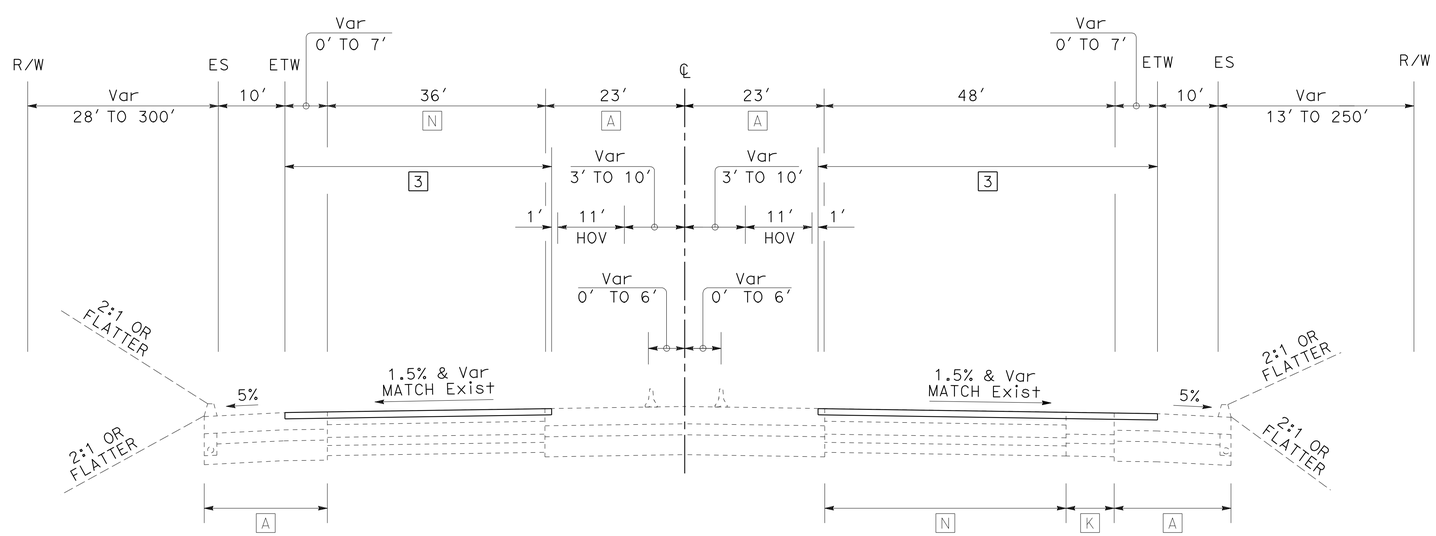
REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



WESTBOUND **ROUTE 60** EASTBOUND

Sta 1528+00.22 TO Sta 1550+50.50
Sta 1552+64.61 TO Sta 1574+34.41
Sta 1576+50.00 TO Sta 1600+94.02
Sta 1603+10.63 TO Sta 1611+14.08



WESTBOUND **ROUTE 60** EASTBOUND

Sta 1404+30.22 TO Sta 1444+10.22

TYPICAL CROSS SECTIONS

NO SCALE

X-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:44

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trcarol
DGN FILE => 725330ca004.dgn
CU 07247
EA 253301

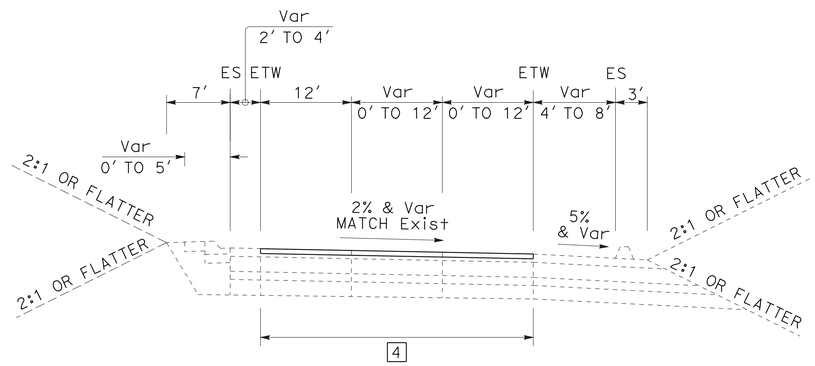
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	6	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



TYPICAL ON-RAMP AND OFF-RAMP

No.	LOCATION	EXISTING STRUCTURAL SECTION
1	WB OFF-RAMP TO GRAND Ave	0.10' RUBBERIZED AC (TYPE G) 0.25' AC (TYPE B) 0.65' CTB (CI A) 0.25' CI 3 AB 0.75' CI 4 AS
2	EB OFF-RAMP TO DIAMOND BAR Blvd	0.35' AC (TYPE B) 0.55' CTB (CI A) 0.25' CI 3 AB 0.50' CI 4 AS
3	EB ON-RAMP FROM DIAMOND BAR Blvd	
4	WB ON-RAMP FROM DIAMOND BAR Blvd	
5	WB OFF-RAMP TO DIAMOND BAR Blvd	
6	EB OFF-RAMP TO PHILLIPS RANCH Rd	
7	WB OFF-RAMP TO PHILLIPS RANCH Rd	
8	WB ON-RAMP FROM PHILLIPS RANCH Rd SB	
9	EB ON-RAMP FROM PHILLIPS RANCH Rd SB (LOOP)	0.25' AC (TYPE B) 0.55' CTB (CI B) 0.25' CI 3 AB 0.50' CI 4 AS

No.	LOCATION	EXISTING STRUCTURAL SECTION
10	EB ON-RAMP FROM PHILLIPS RANCH Rd	0.45' AC (TYPE B) 0.25' ATPB 0.60' CI 2 AB 0.75' CI 4 AS
11	WB ON-RAMP FROM PHILLIPS RANCH Rd NB (LOOP)	
12	EB OFF-RAMP TO GAREY Ave	0.35' AC (TYPE B) 0.55' CTB (CI B) 0.25' CI 3 AB 0.50' CI 4 AS
13	EB ON-RAMP FROM GAREY Ave	
14	WB OFF-RAMP TO GAREY Ave	
15	WB ON-RAMP FROM GAREY Ave	0.30' AC (TYPE B) 0.50' CTB (CI A) 1.05' CI 3 AB
16	EB ON-RAMP FROM RESERVOIR St	0.35' AC (TYPE B) 0.55' CTB (CI B) 0.25' CI 3 AB 0.50' CI 4 AS

TYPICAL CROSS SECTIONS

NO SCALE

X-5

REVISED BY | DATE REVISED
SHAO-CHIANG LIU | STEVE PHAM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	7	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. NO ALIGNMENT DATA IS PROVIDED FOR RAMPS. RAMP STATION LINES ARE USED FOR DISTANCE MEASUREMENT ONLY.

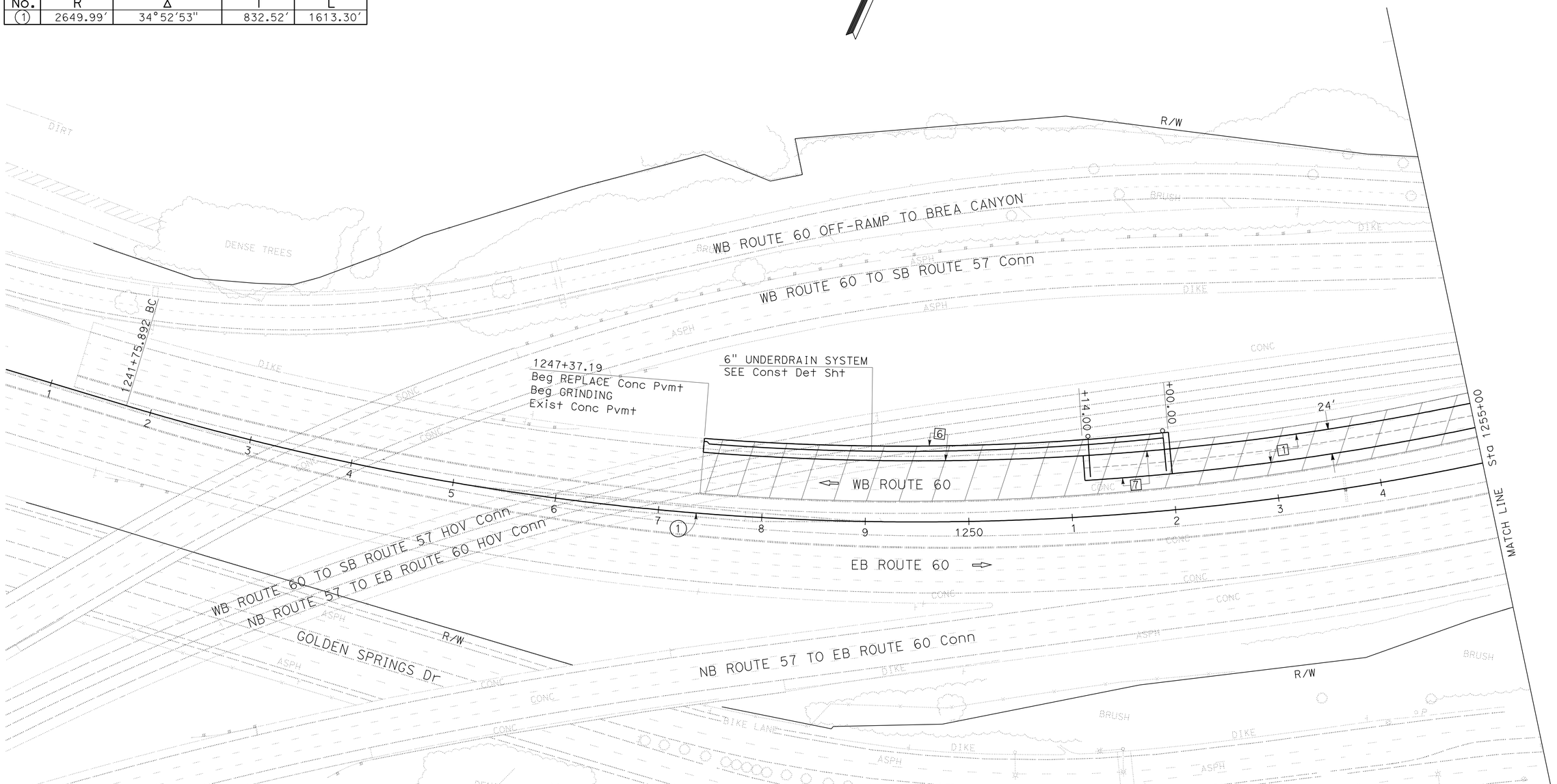
LEGENDS:

GRIND EXISTING CONCRETE PAVEMENT

DIRECTION OF TRAFFIC

CURVE DATA

No.	R	Δ	T	L
1	2649.99′	34°52′53″	832.52′	1613.30′



LAYOUT

SCALE: 1" = 50′

L-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU

REVISED BY | DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	8	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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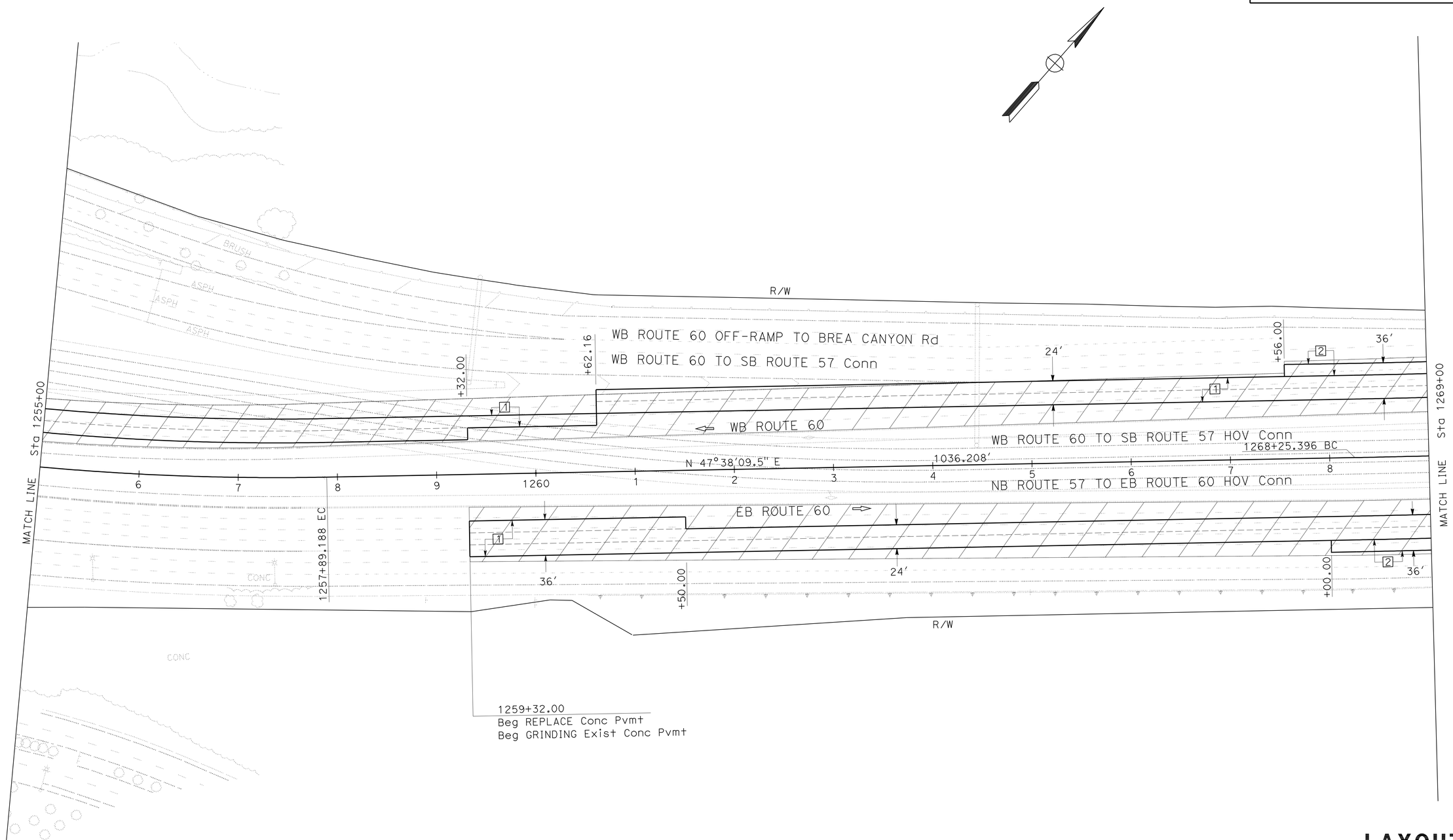
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1" = 50'

L-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	9	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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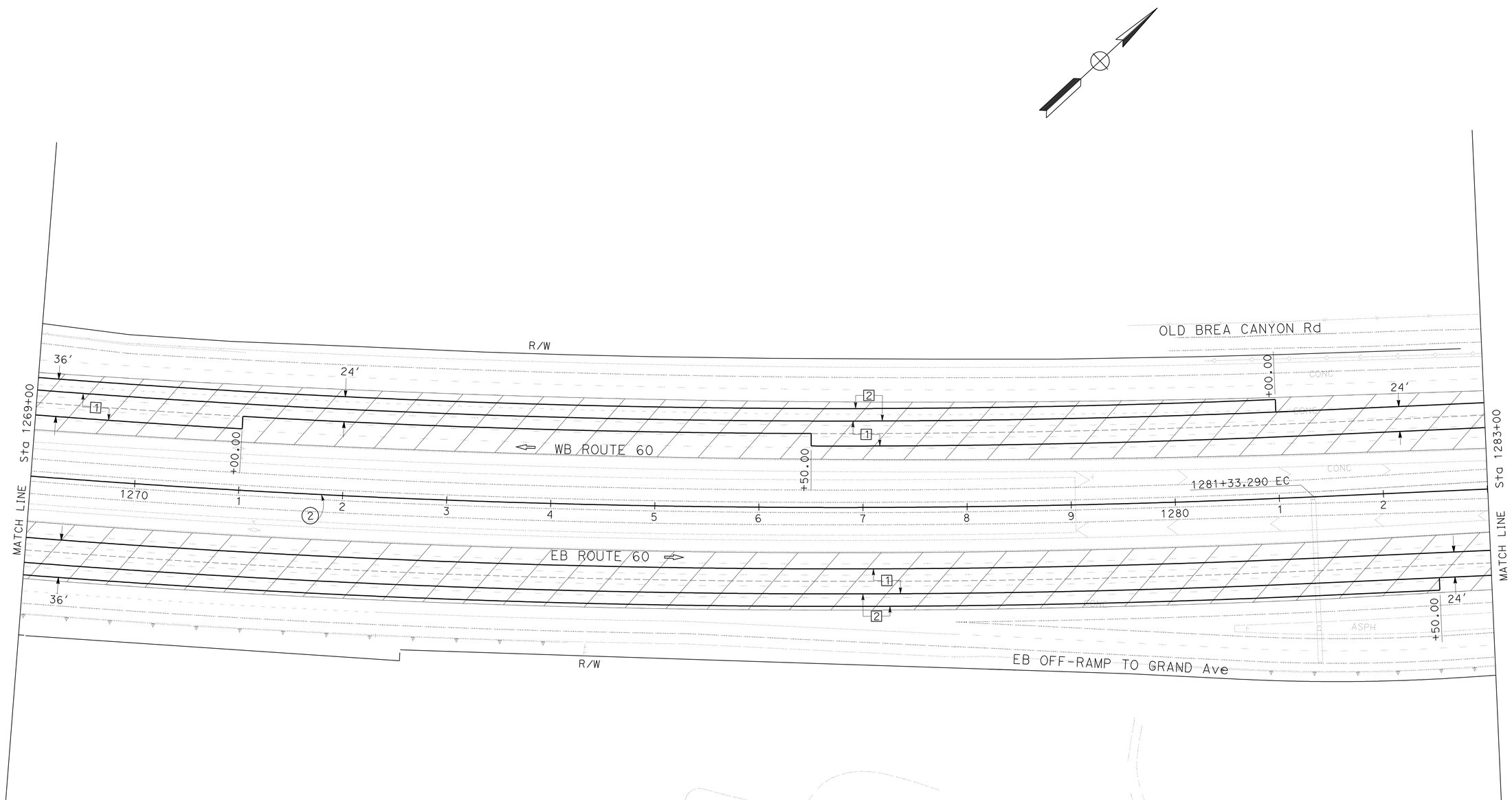
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
(2)	10082.78′	7°25′56"	654.87′	1307.89′



LAYOUT

SCALE: 1" = 50′

L-3

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
STEVE PHAM	SHAO-CHIANG LIU

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	10	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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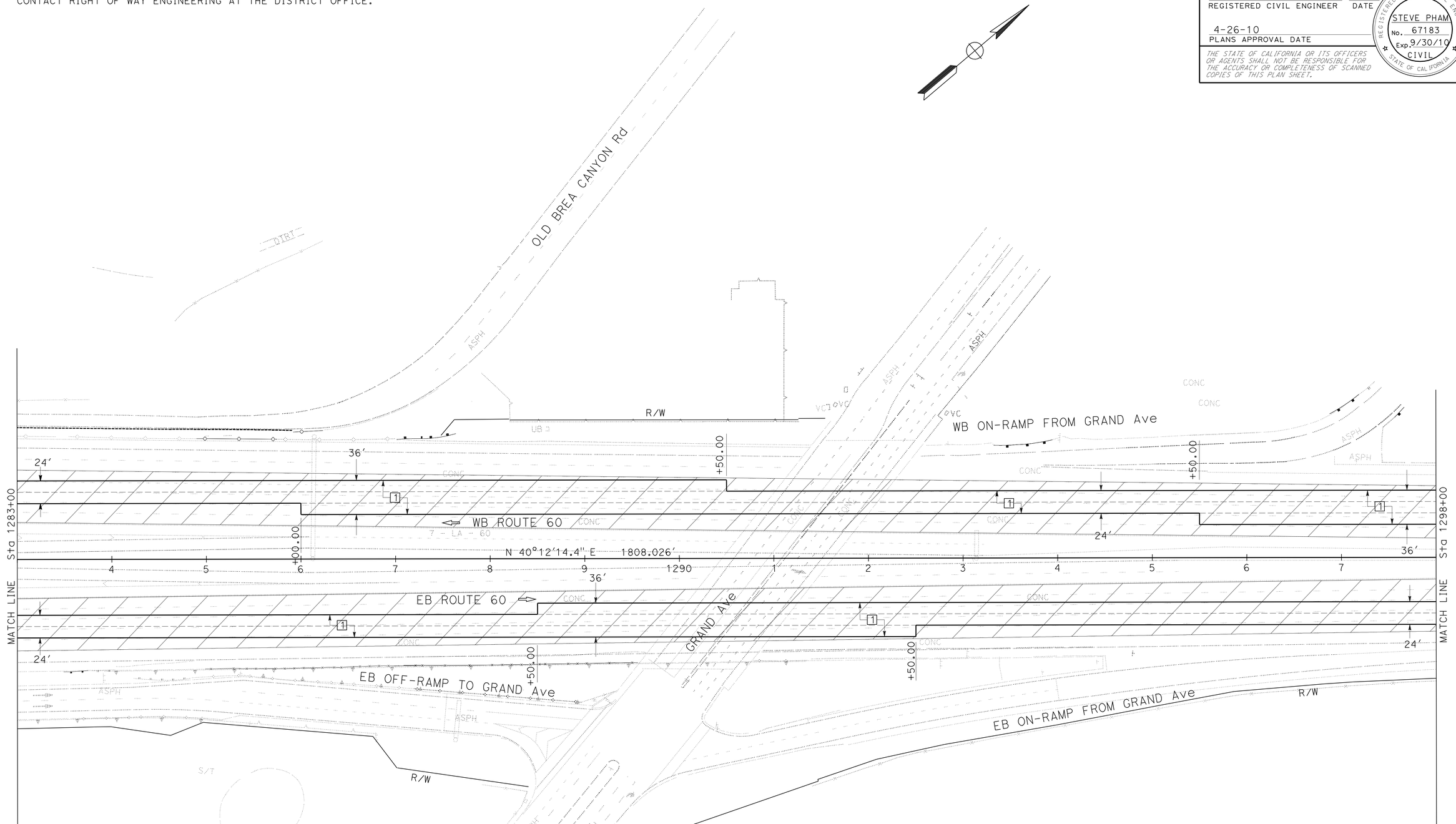
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1″ = 50′ **L-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	11	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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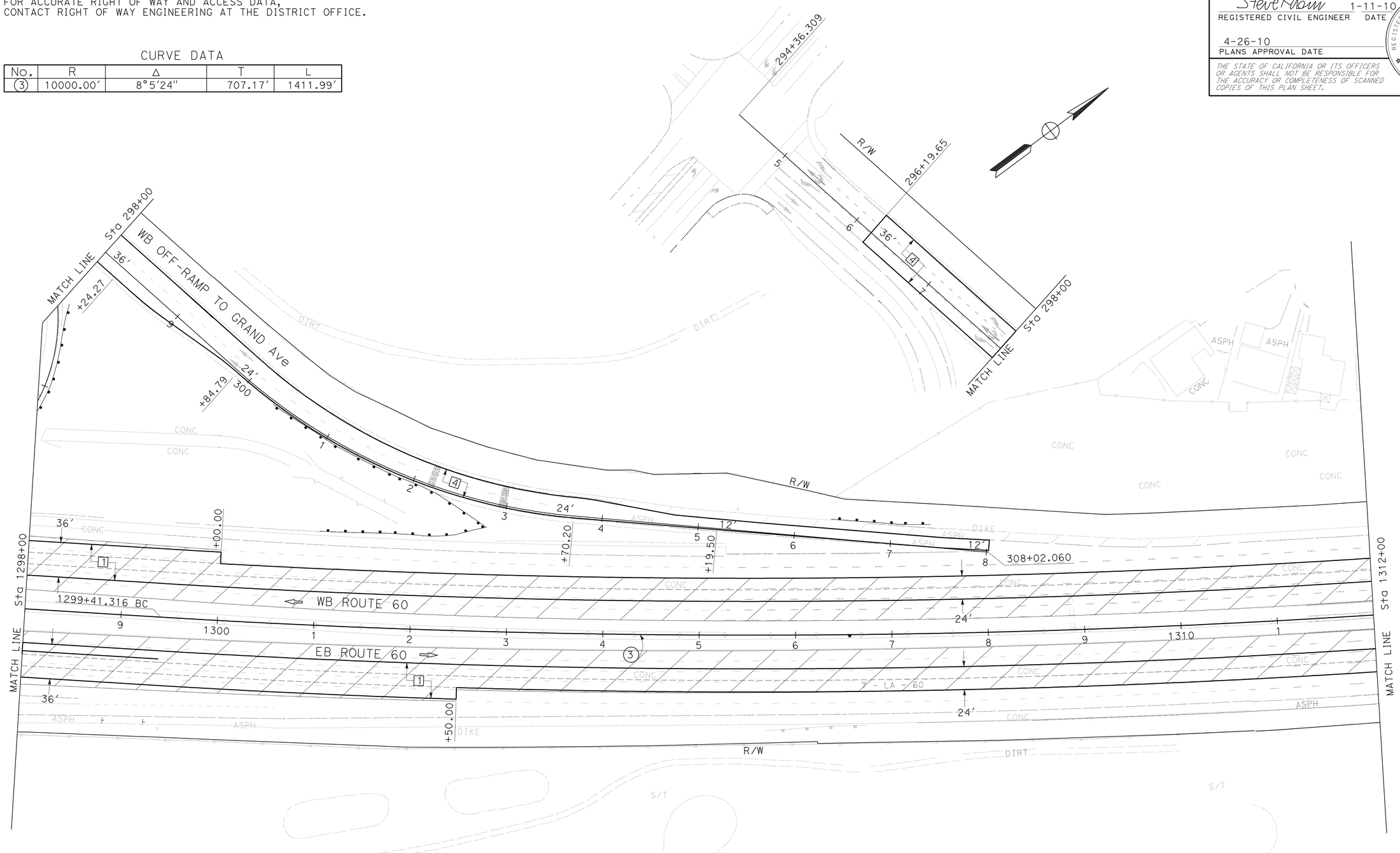
NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
3	10000.00′	8°5′24″	707.17′	1411.99′



LAYOUT
SCALE: 1" = 50′

L-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY
REVISED BY
DATE REVISED
STEVE PHAM

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:43

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmikesl | DGN FILE => 725330ea005.dgn | CU 07247 | EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	12	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

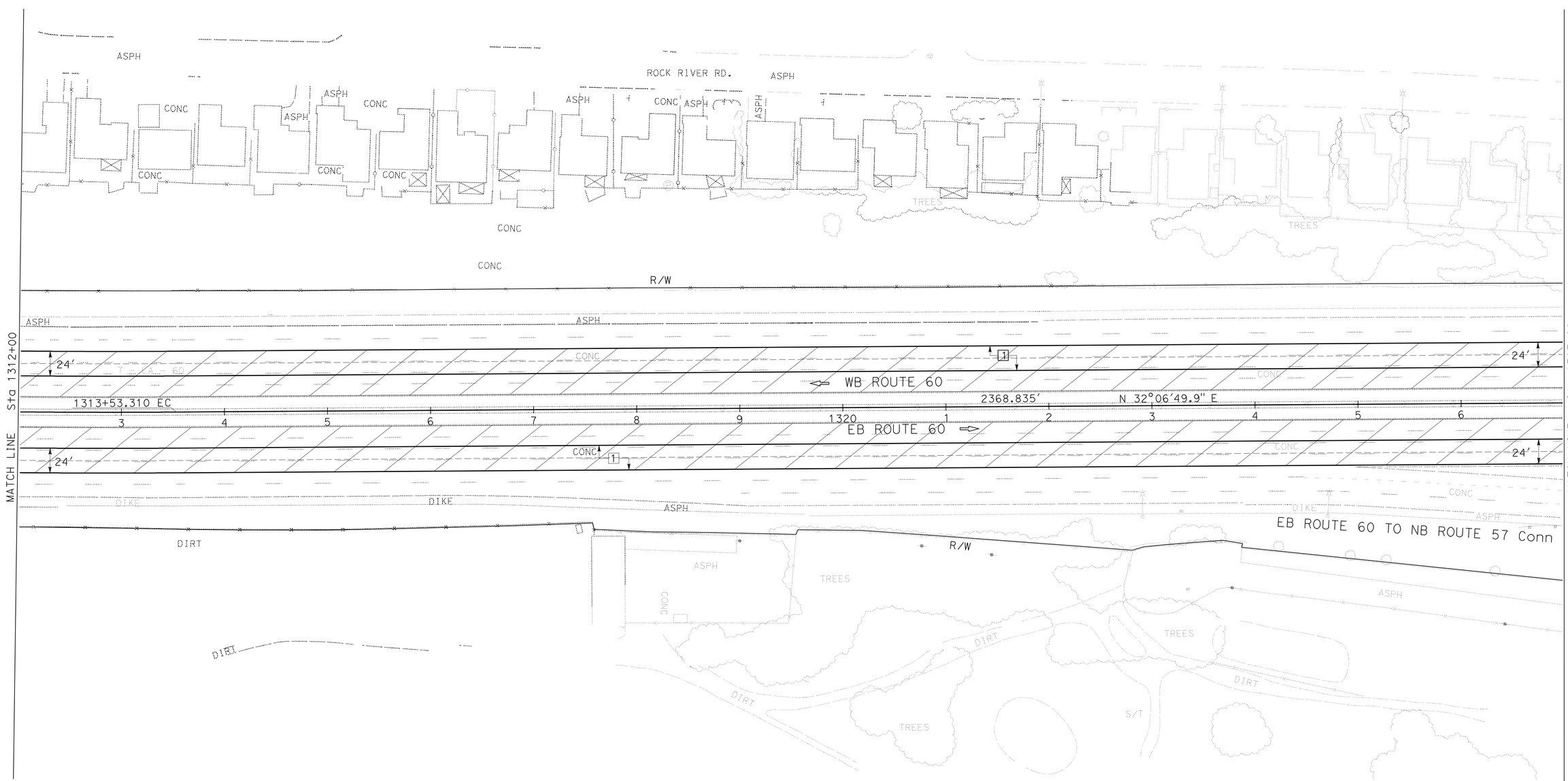
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT
SCALE: 1" = 50'

L-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	13	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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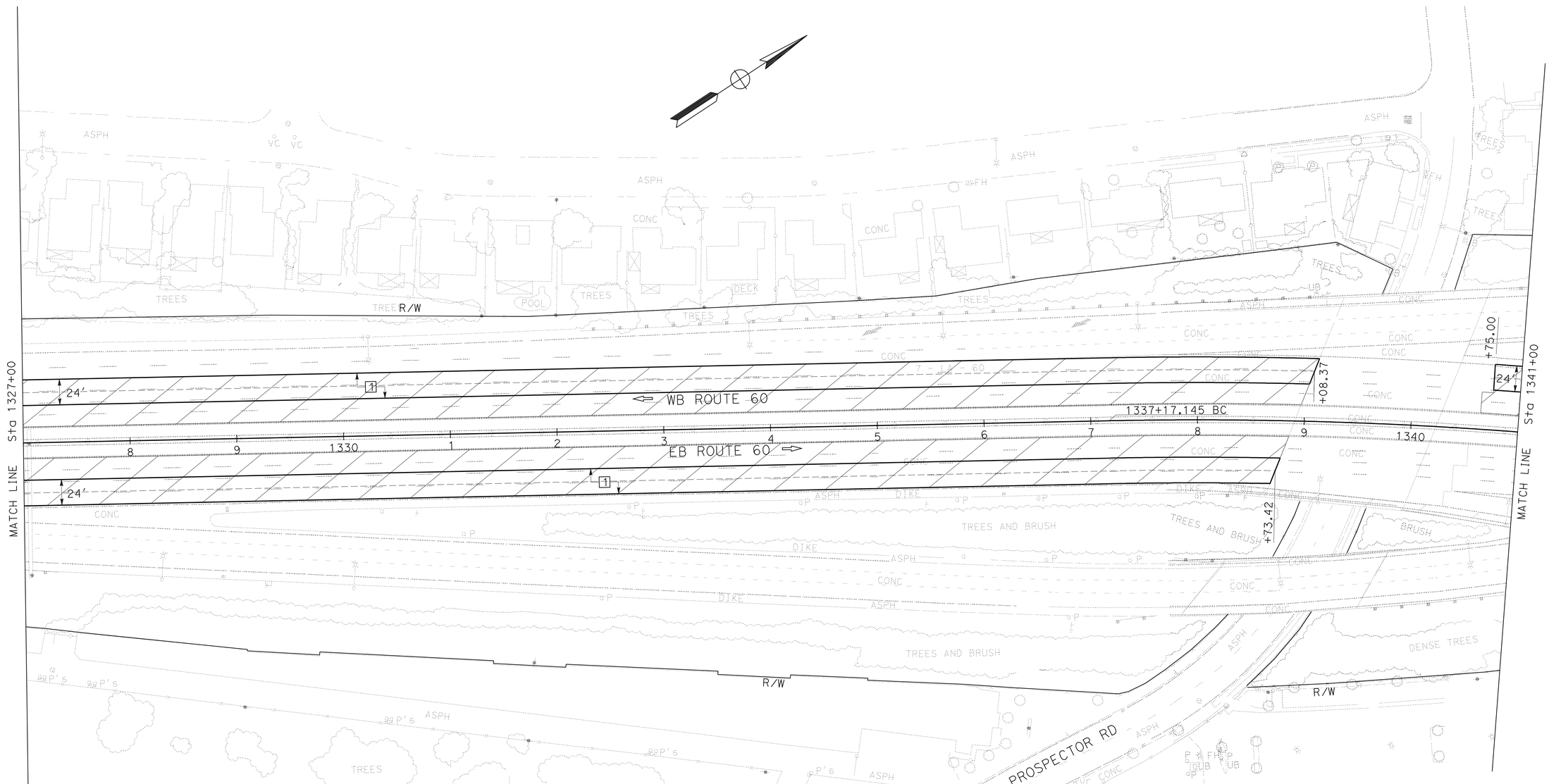
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1" = 50'

L-7

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	14	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

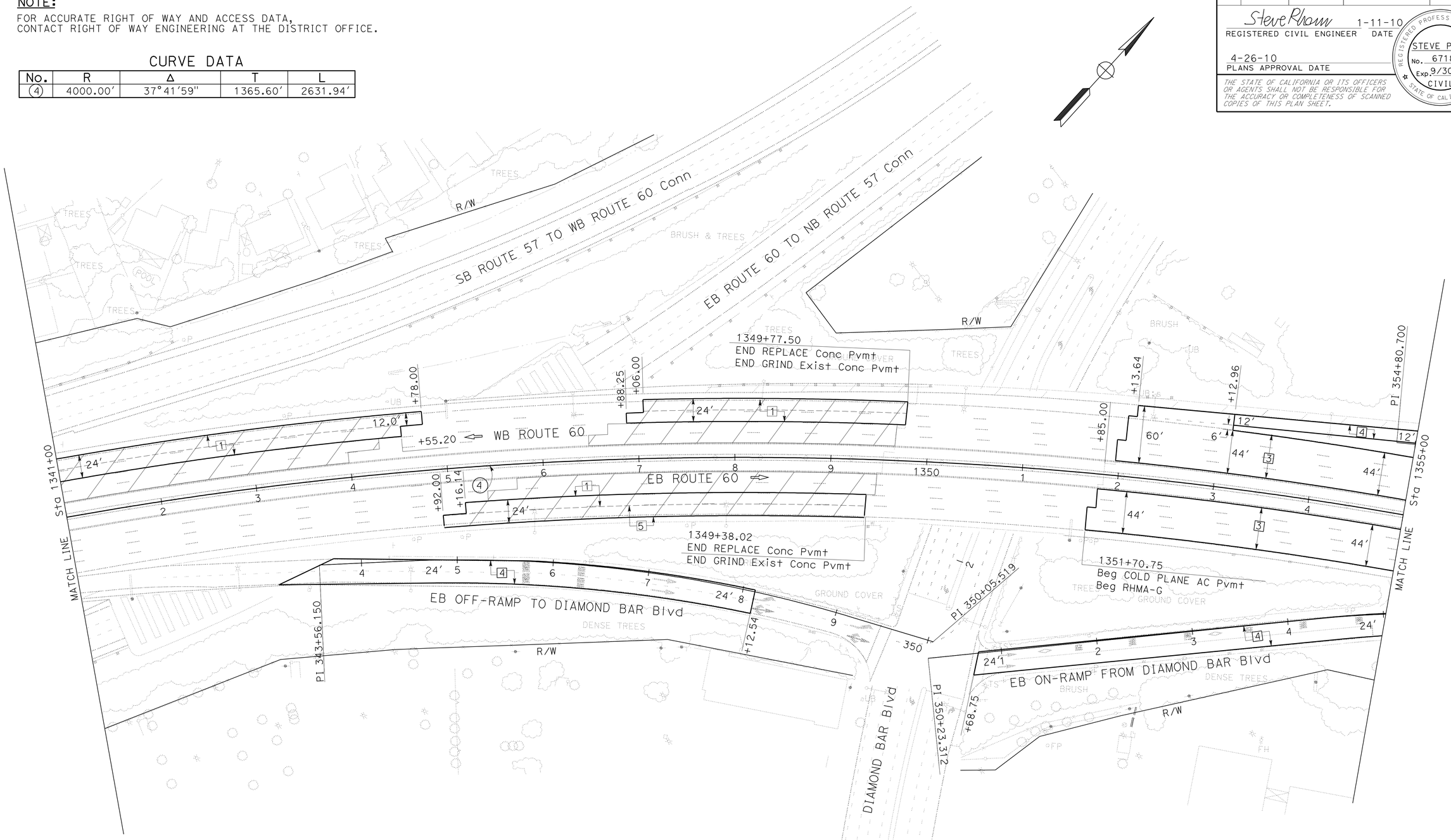
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
(4)	4000.00′	37°41′59″	1365.60′	2631.94′



LAYOUT

SCALE: 1" = 50′

L-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN

CALCULATED-DESIGNED BY
STEVE PHAM

CHECKED BY
SHAO-CHIANG LIU

REVISED BY

DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	15	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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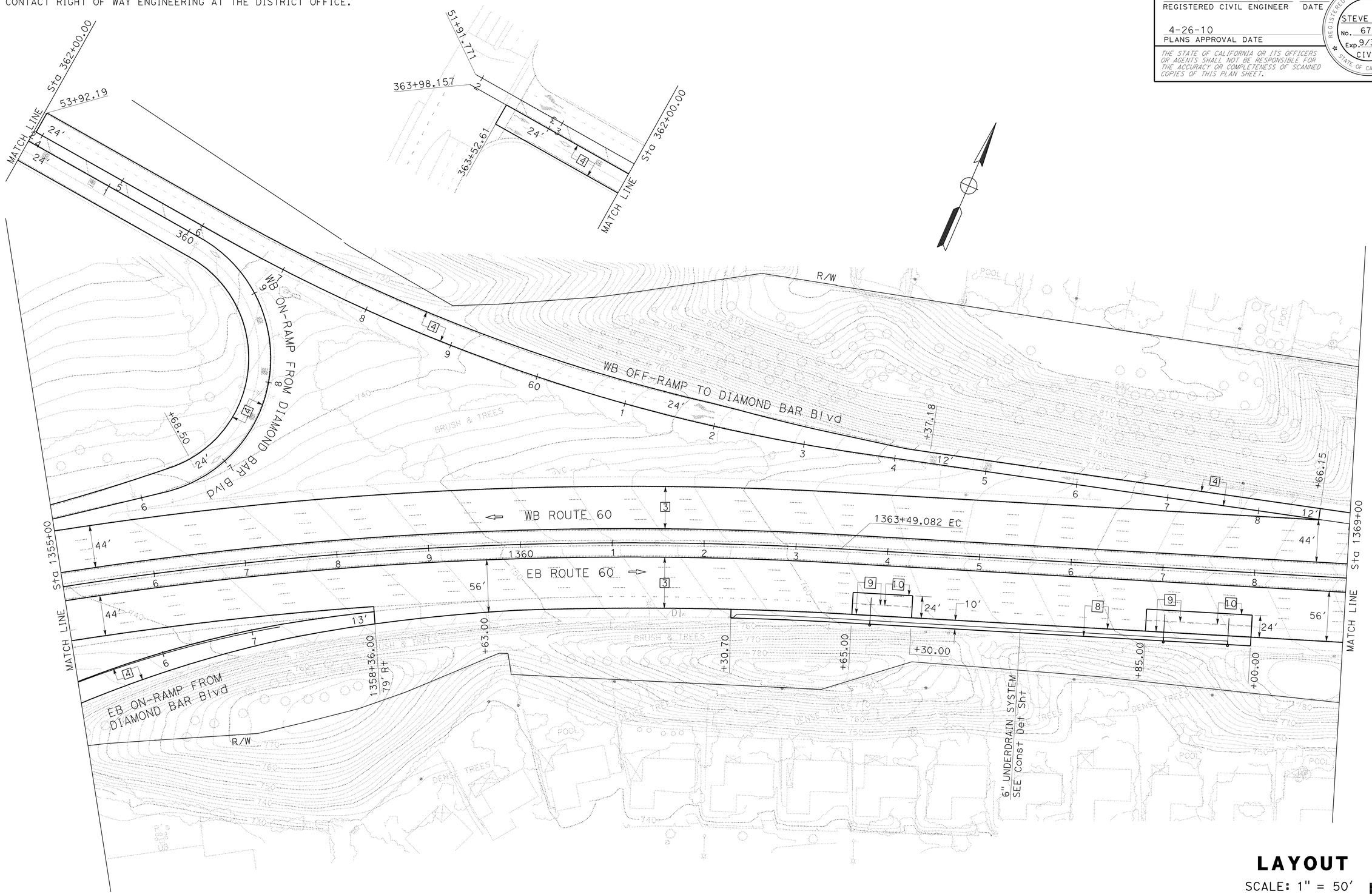
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1" = 50'

L-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	16	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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NOTE:
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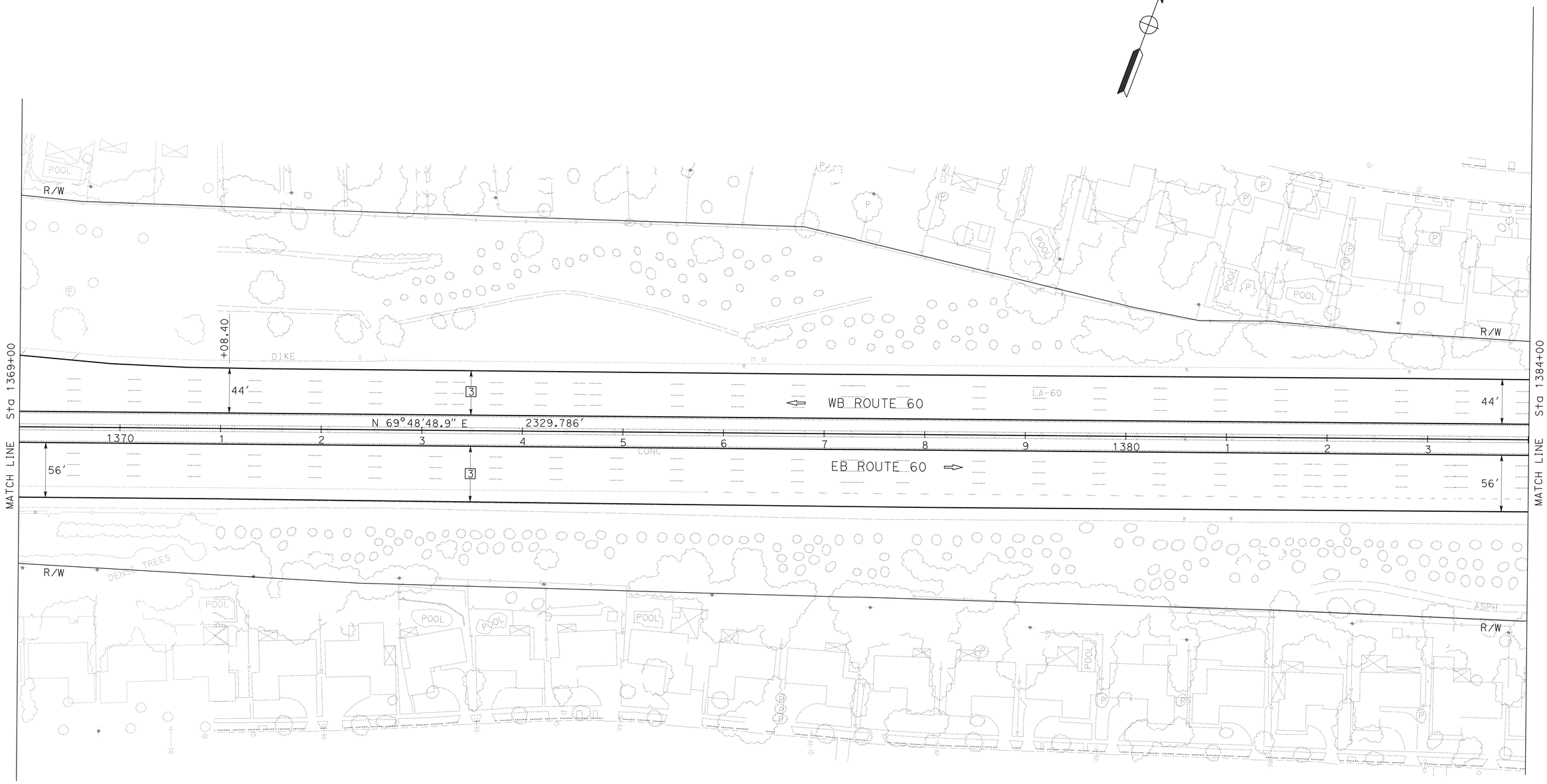
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT
SCALE: 1″ = 50′

L-10

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	STEVE PHAM
CHECKED BY	SHAO-CHIANG LIU
FUNCTIONAL SUPERVISOR	MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:43

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	17	124

REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
No.
Exp.
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
5	3500.00′	42°30′15″	1361.22′	2596.43′

LAYOUT

SCALE: 1" = 50′

L-11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

CALCULATED-DESIGNED BY: SHAO-CHIANG LIU

CHECKED BY: STEVE PHAM

REVISED BY

DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	18	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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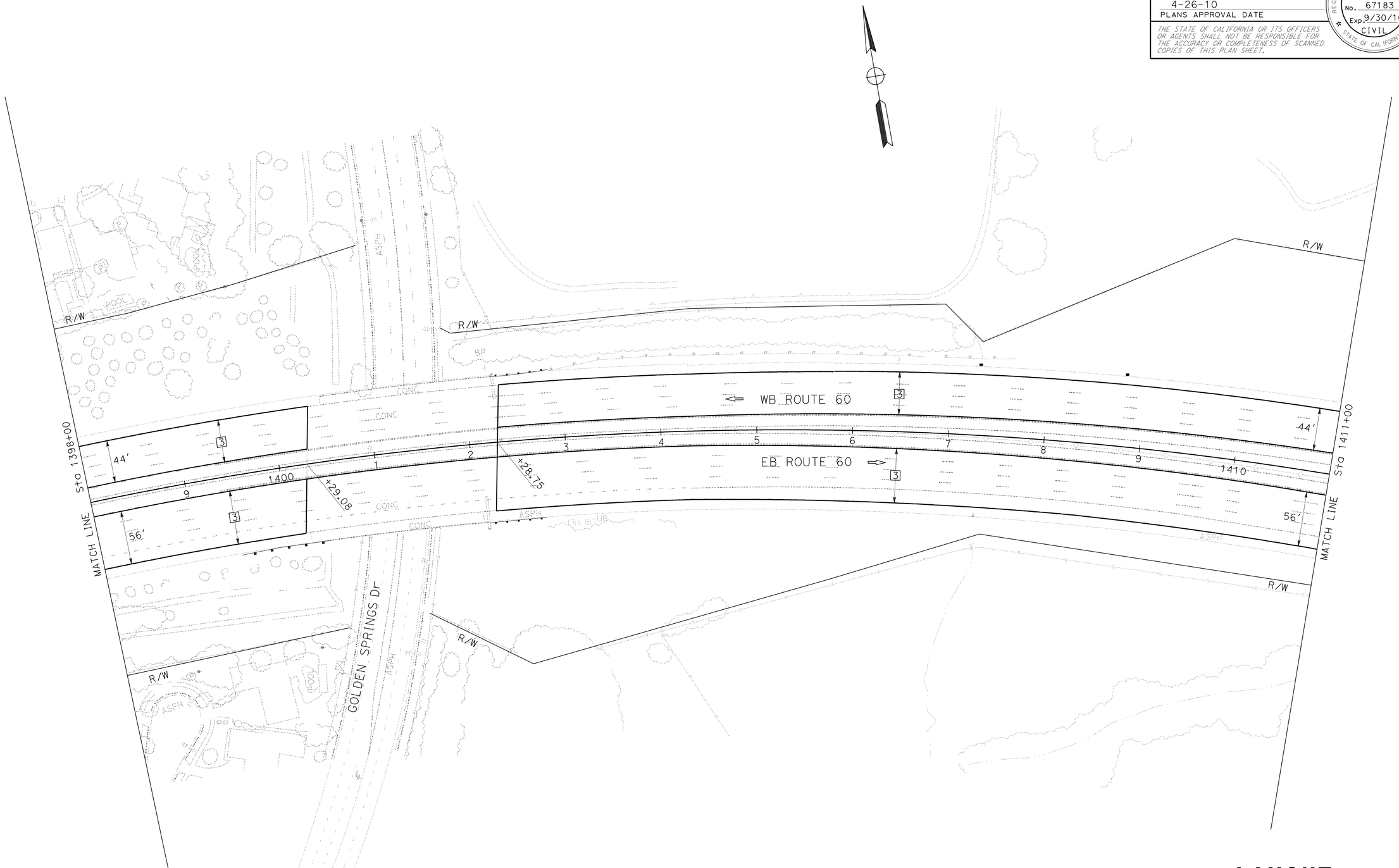
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1" = 50'

L-12

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
STEVE PHAM	SHAO-CHIANG LIU

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	19	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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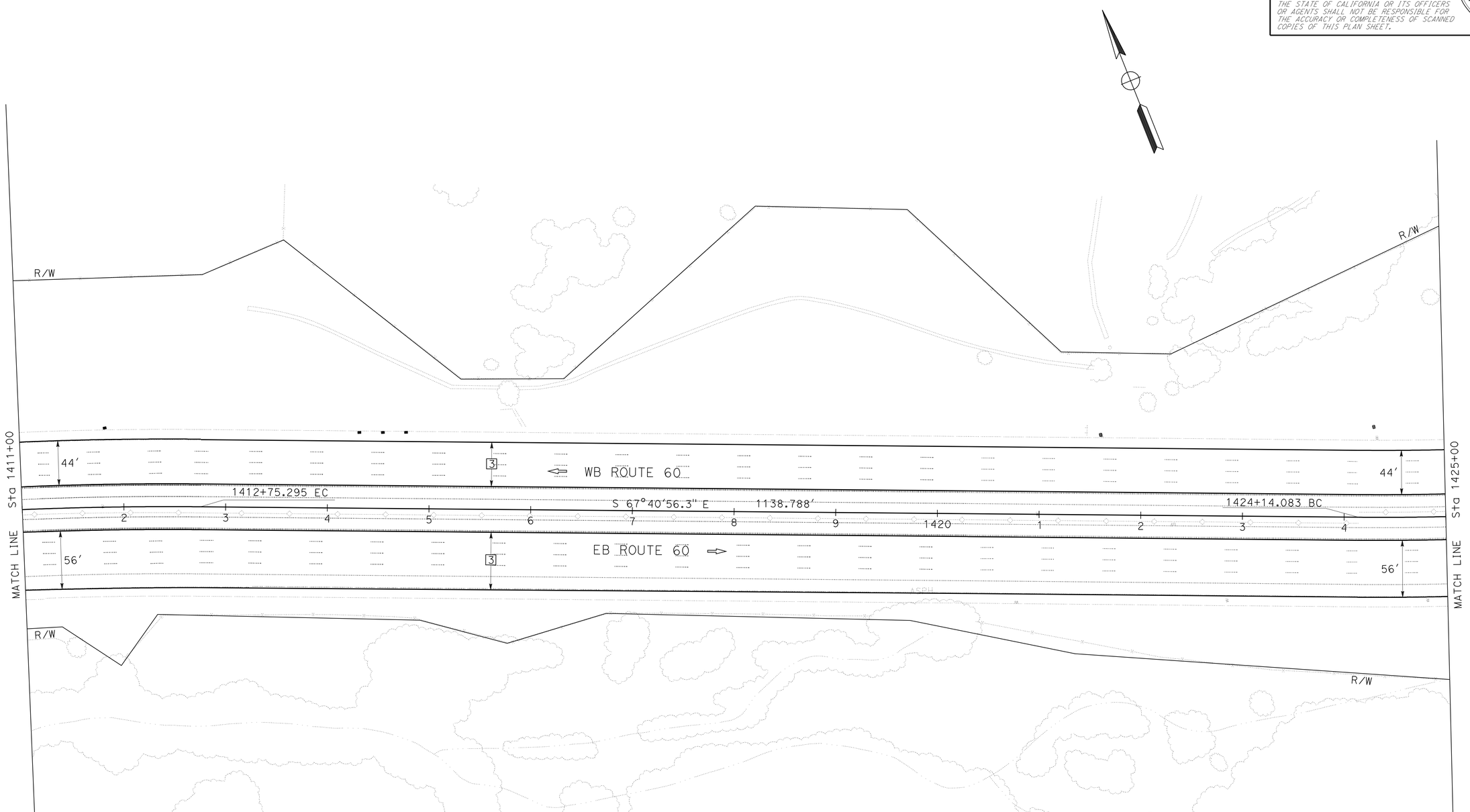
NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1″ = 50′ **L-13**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
STEVE PHAM	SHAO-CHIANG LIU

FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	20	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

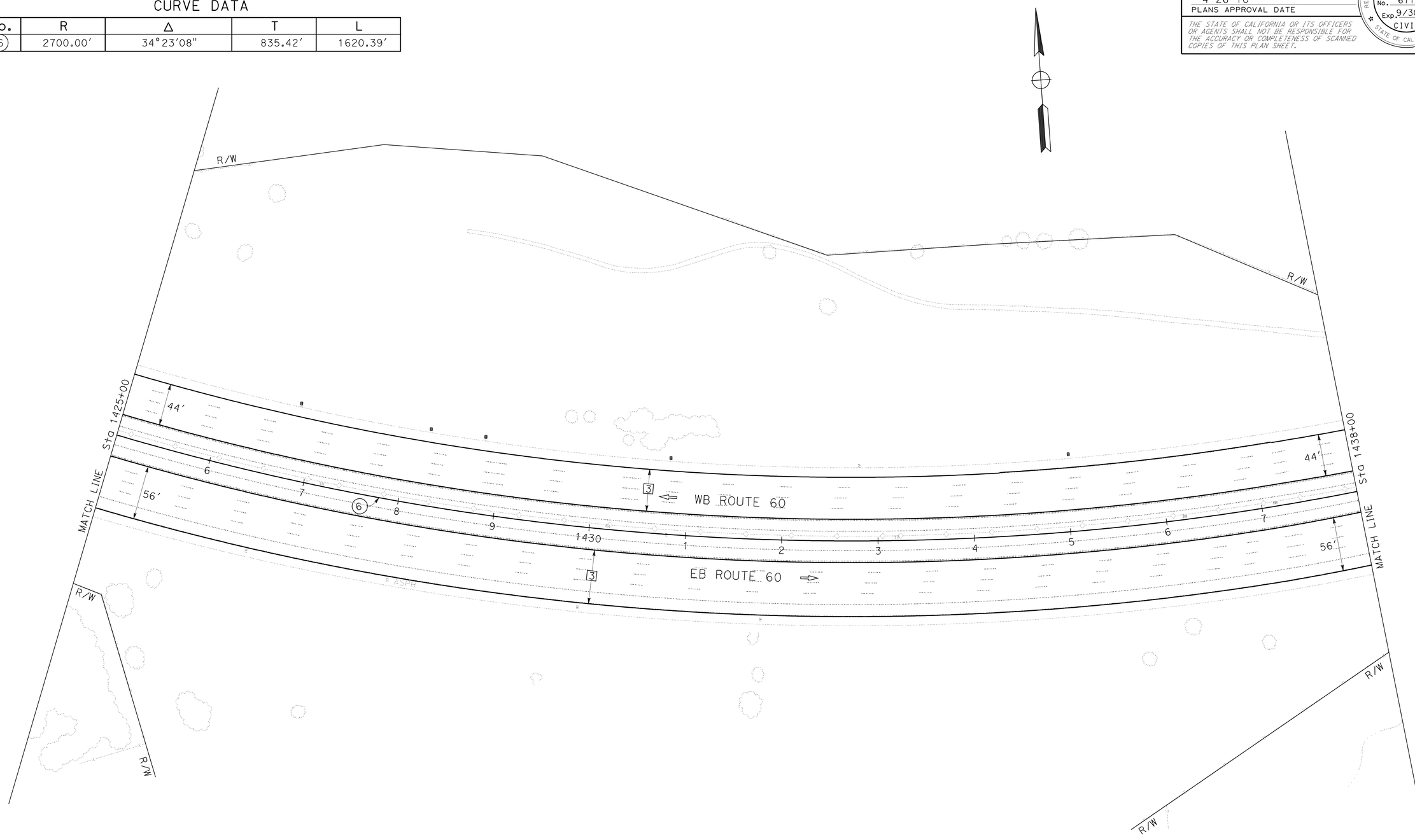
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
6	2700.00′	34°23′08″	835.42′	1620.39′



LAYOUT

SCALE: 1" = 50′ **L-14**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	21	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

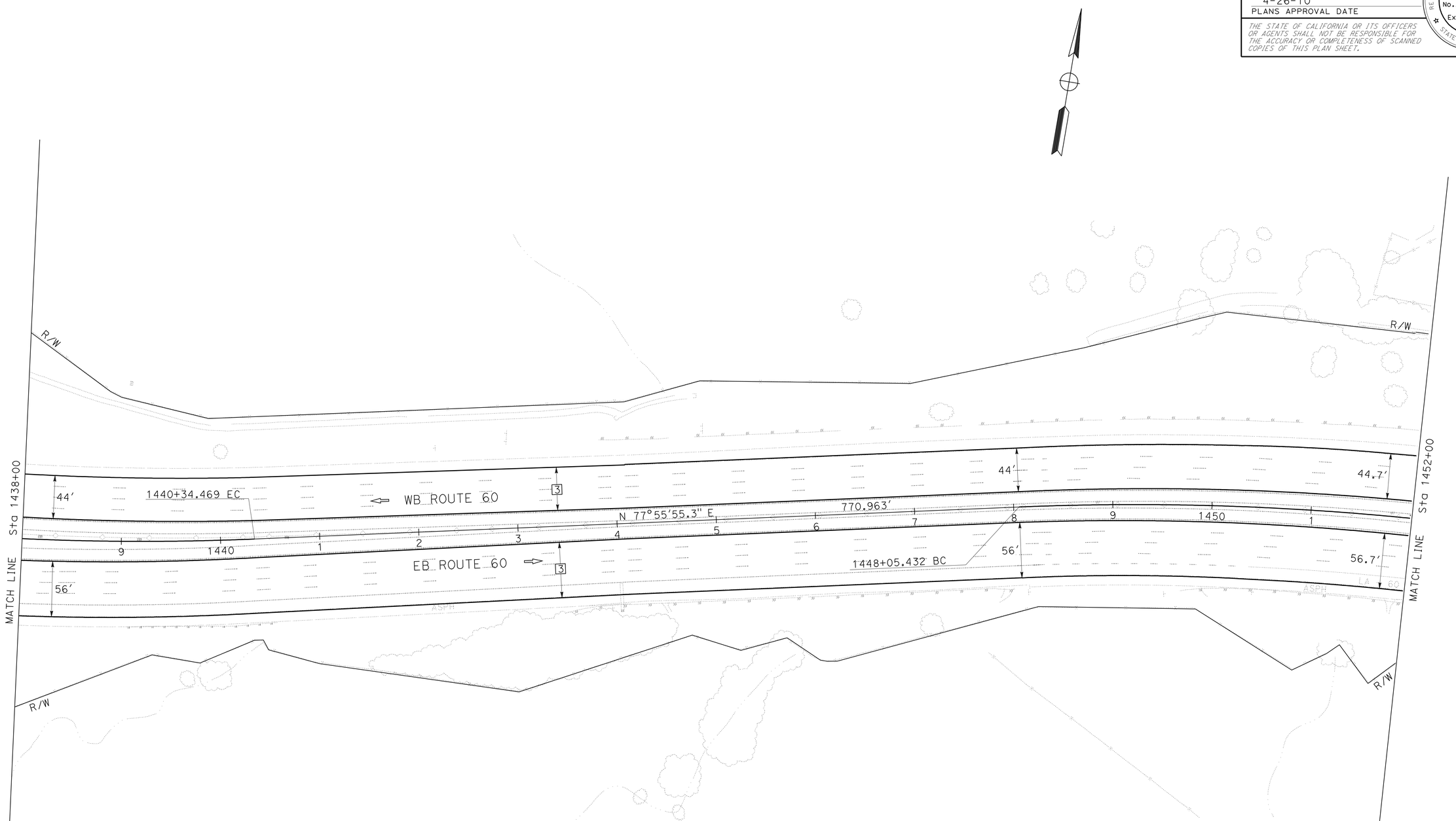
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1″ = 50′ **L-15**

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
STEVE PHAM	SHAO-CHIANG LIU

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	22	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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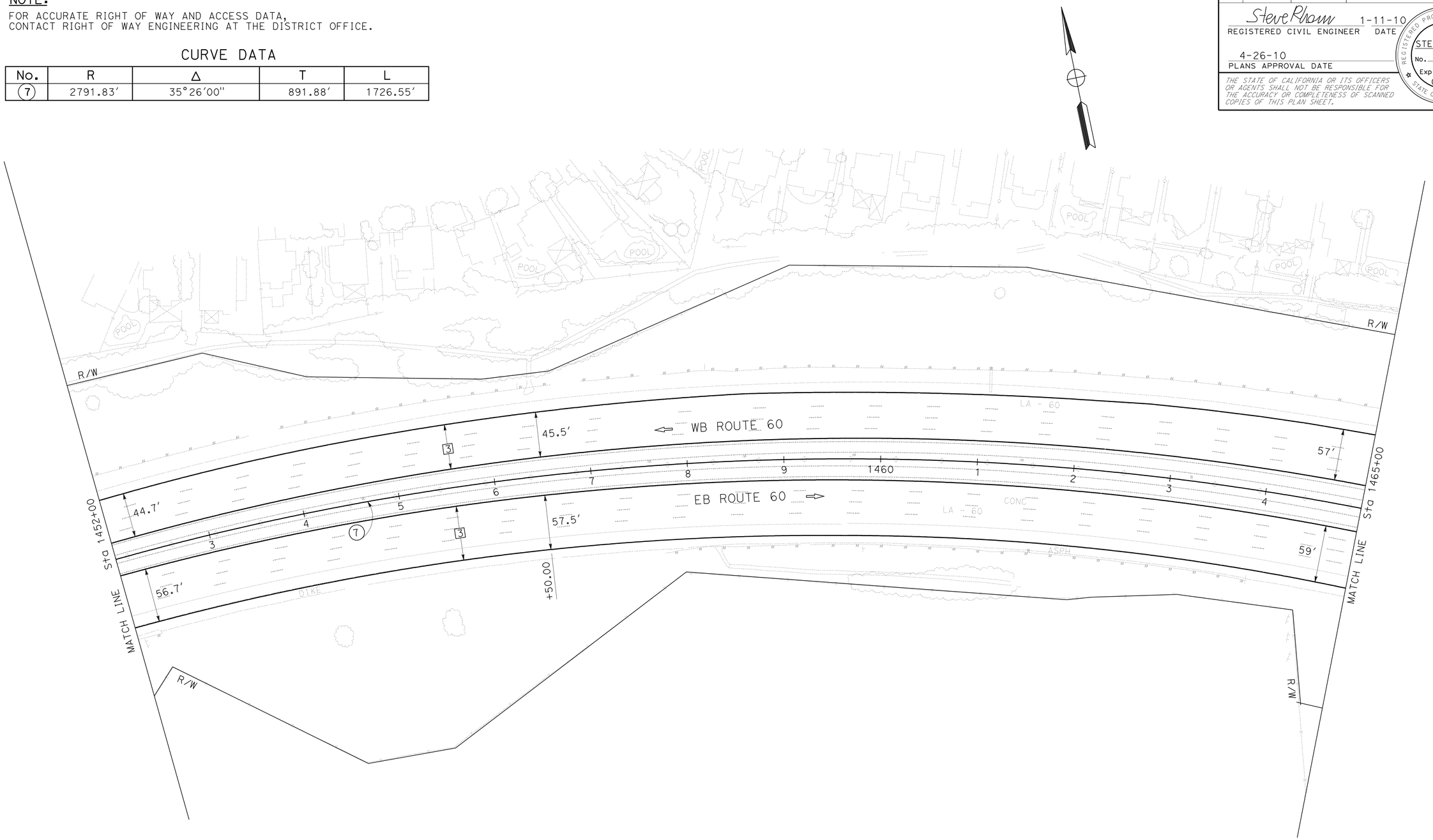
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
7	2791.83′	35°26′00″	891.88′	1726.55′



LAYOUT

SCALE: 1" = 50′

L-16

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN

CALCULATED-DESIGNED BY
STEVE PHAM

CHECKED BY
SHAO-CHIANG LIU

REVISED BY

DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:44

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	23	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
8	4000.00′	37°49′29″	1370.47′	2640.67′

LAYOUT

SCALE: 1" = 50′

L-17

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:45

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trmikesl | DGN FILE => 725330ea017.dgn | CU 07247 | EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	24	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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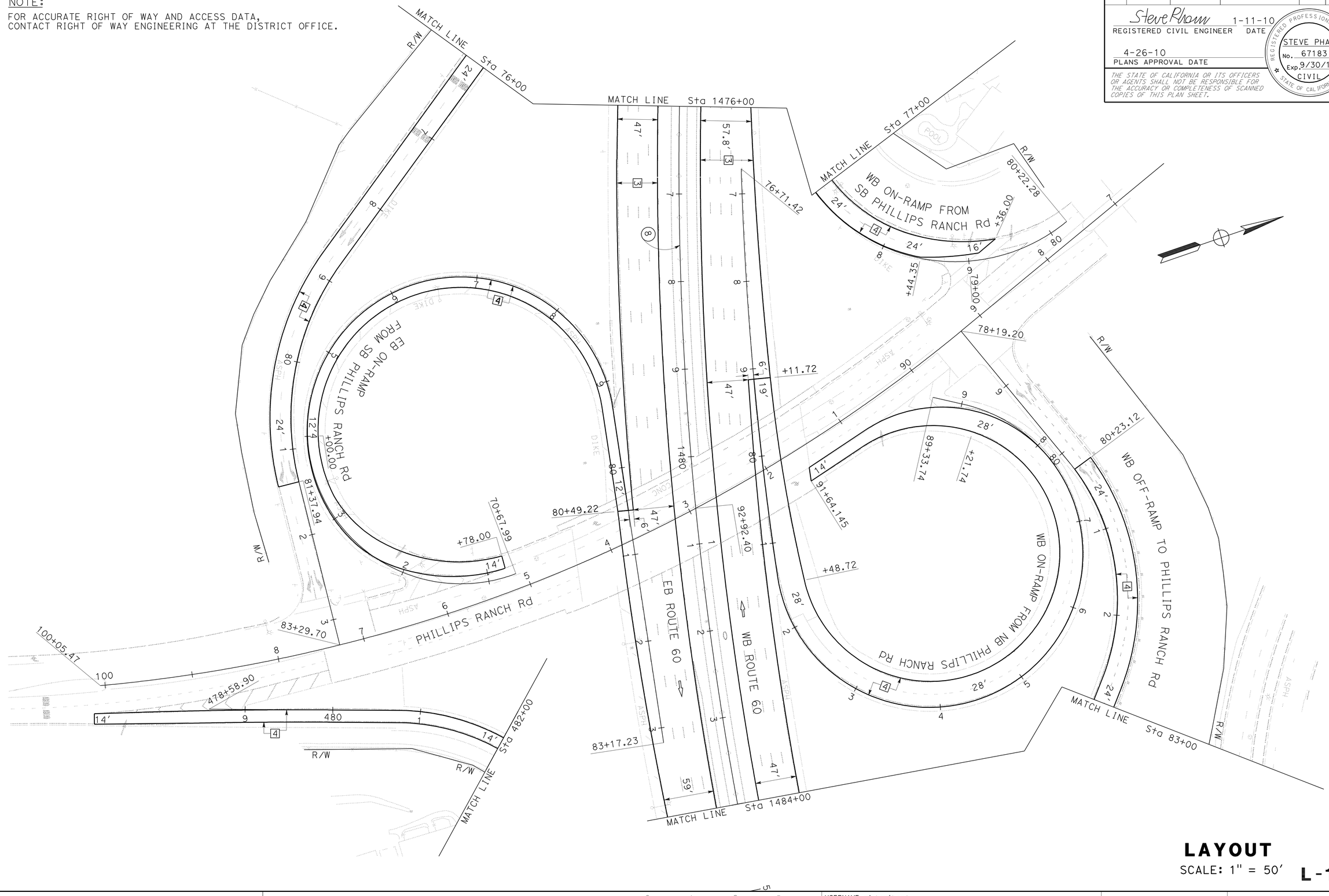
NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1" = 50'

L-18

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	25	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LAYOUT

SCALE: 1" = 50'

L-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN

CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	26	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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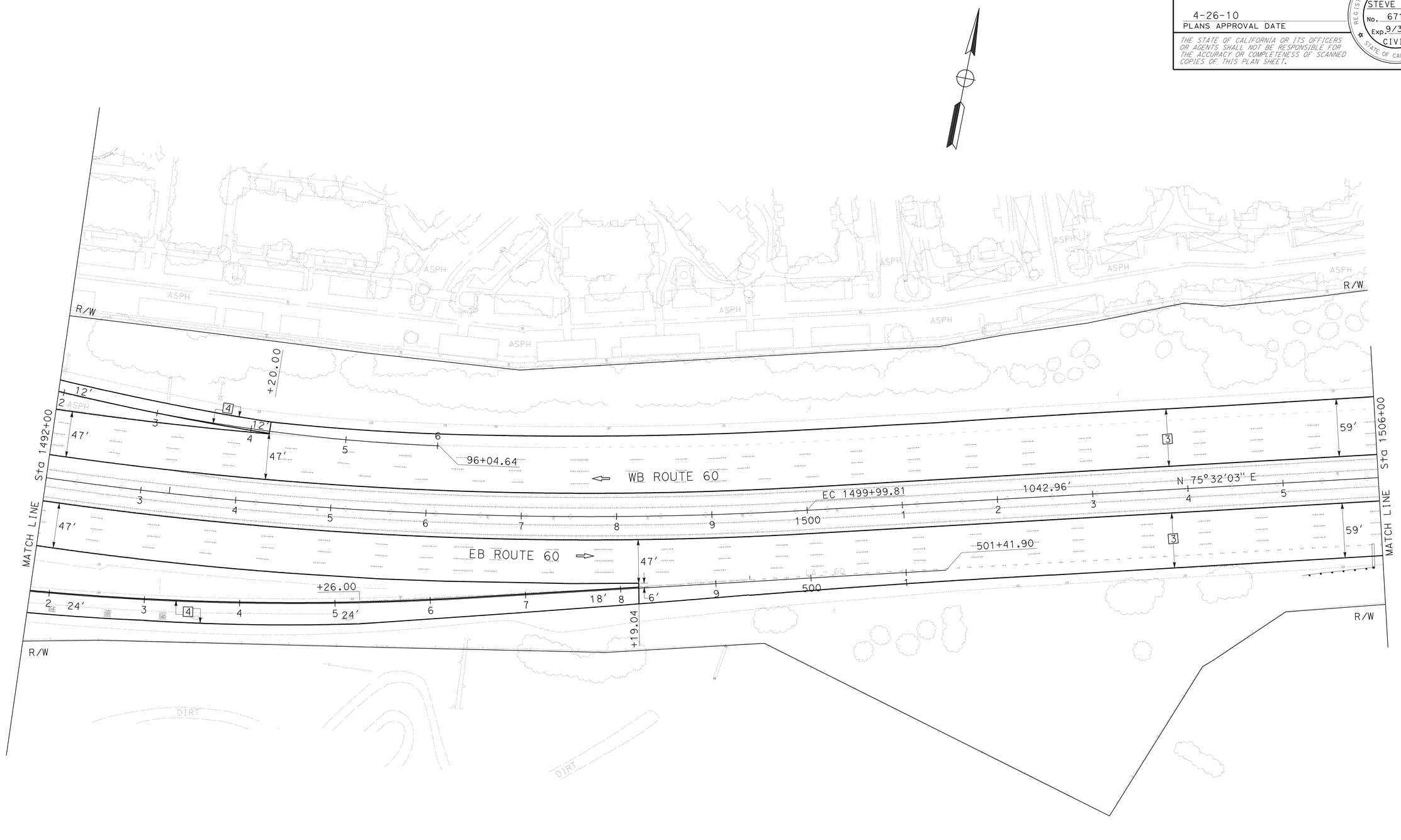
NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT
SCALE: 1" = 50′ **L-20**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN

CALCULATED-DESIGNED BY
STEVE PHAM

CHECKED BY
SHAO-CHIANG LIU

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	27	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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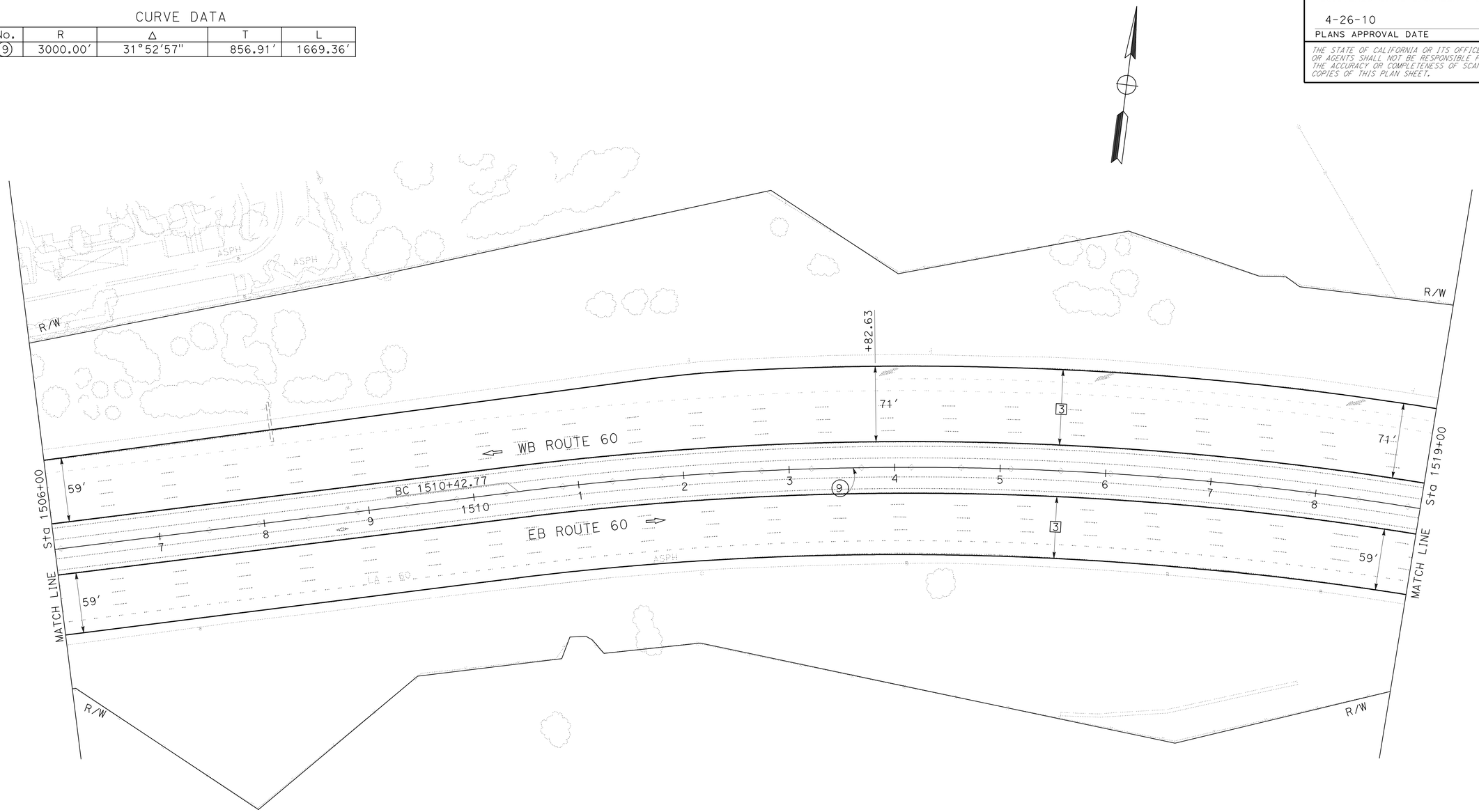
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
9	3000.00′	31°52′57″	856.91′	1669.36′



LAYOUT

SCALE: 1" = 50′

L-21

REVISED BY	DATE REVISED

STEVE PHAM — CALCULATED-DESIGNED BY
SHAO-CHIANG LIU — CHECKED BY

FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	28	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

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STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

LAYOUT

SCALE: 1" = 50'

L-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	29	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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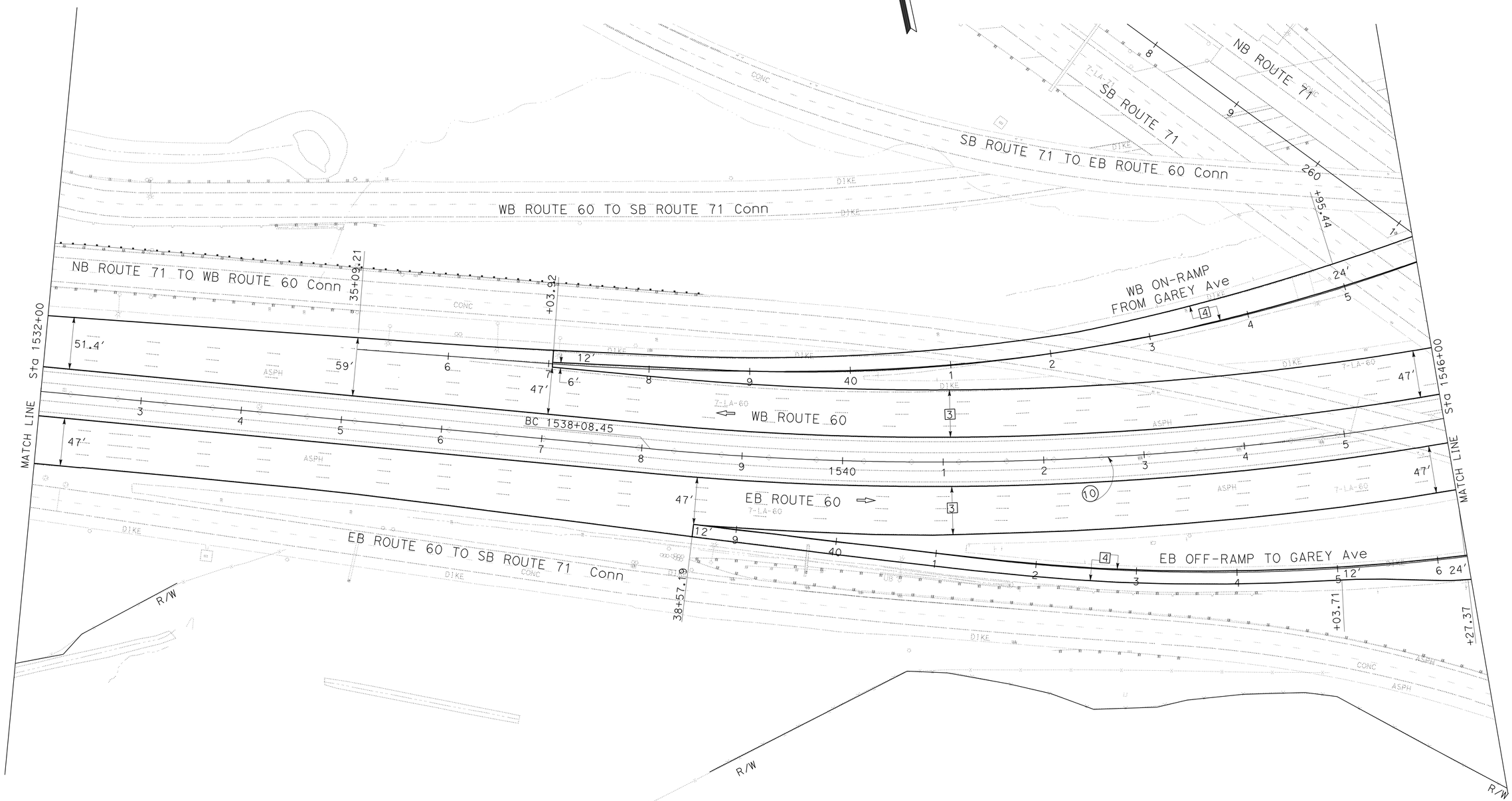
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
10	3000.00′	27°48′38″	742.72′	1456.16′



LAYOUT
SCALE: 1" = 50′ **L-23**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	30	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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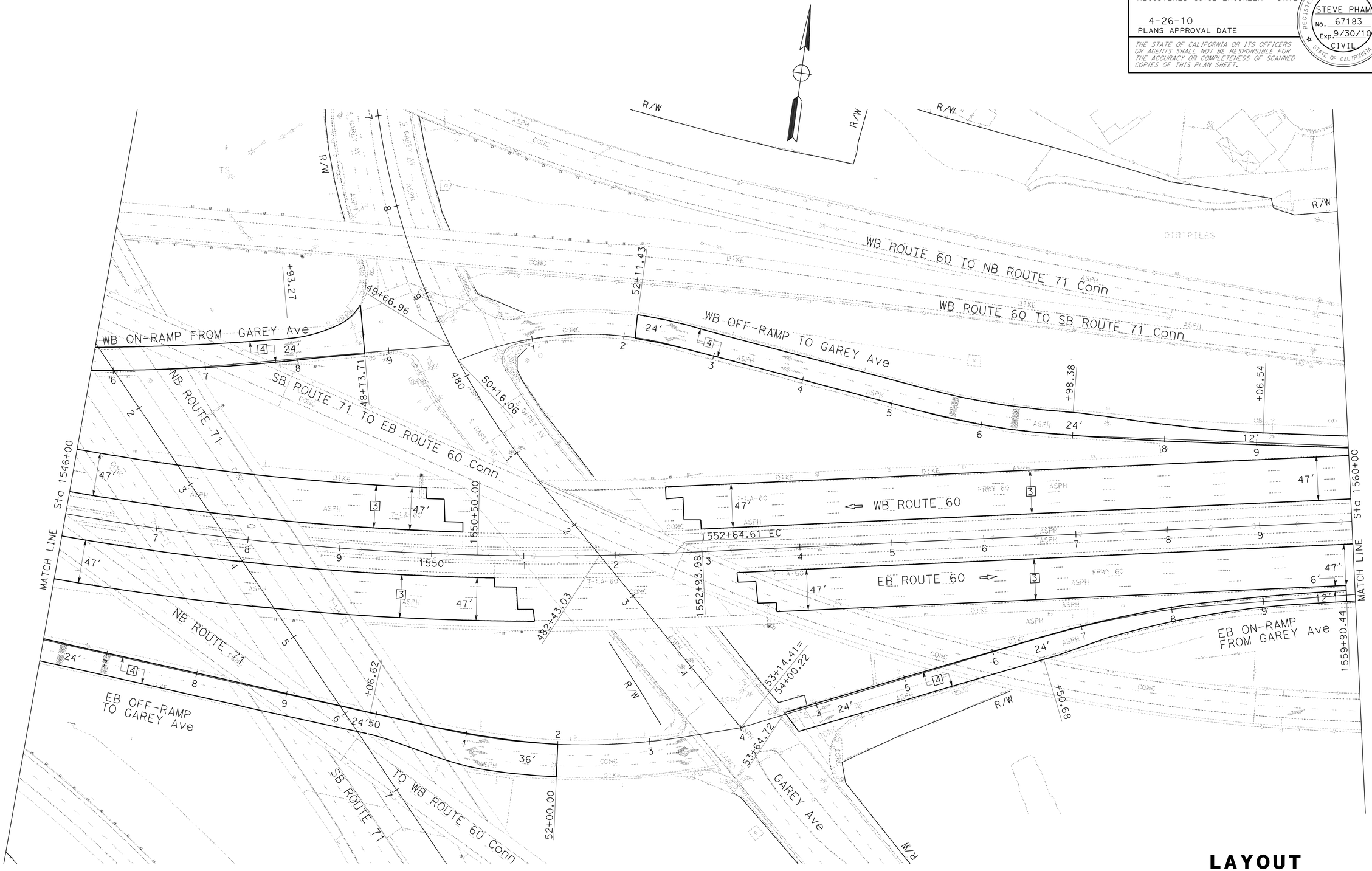

LAYOUT

SCALE: 1" = 50' **L-24**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	31	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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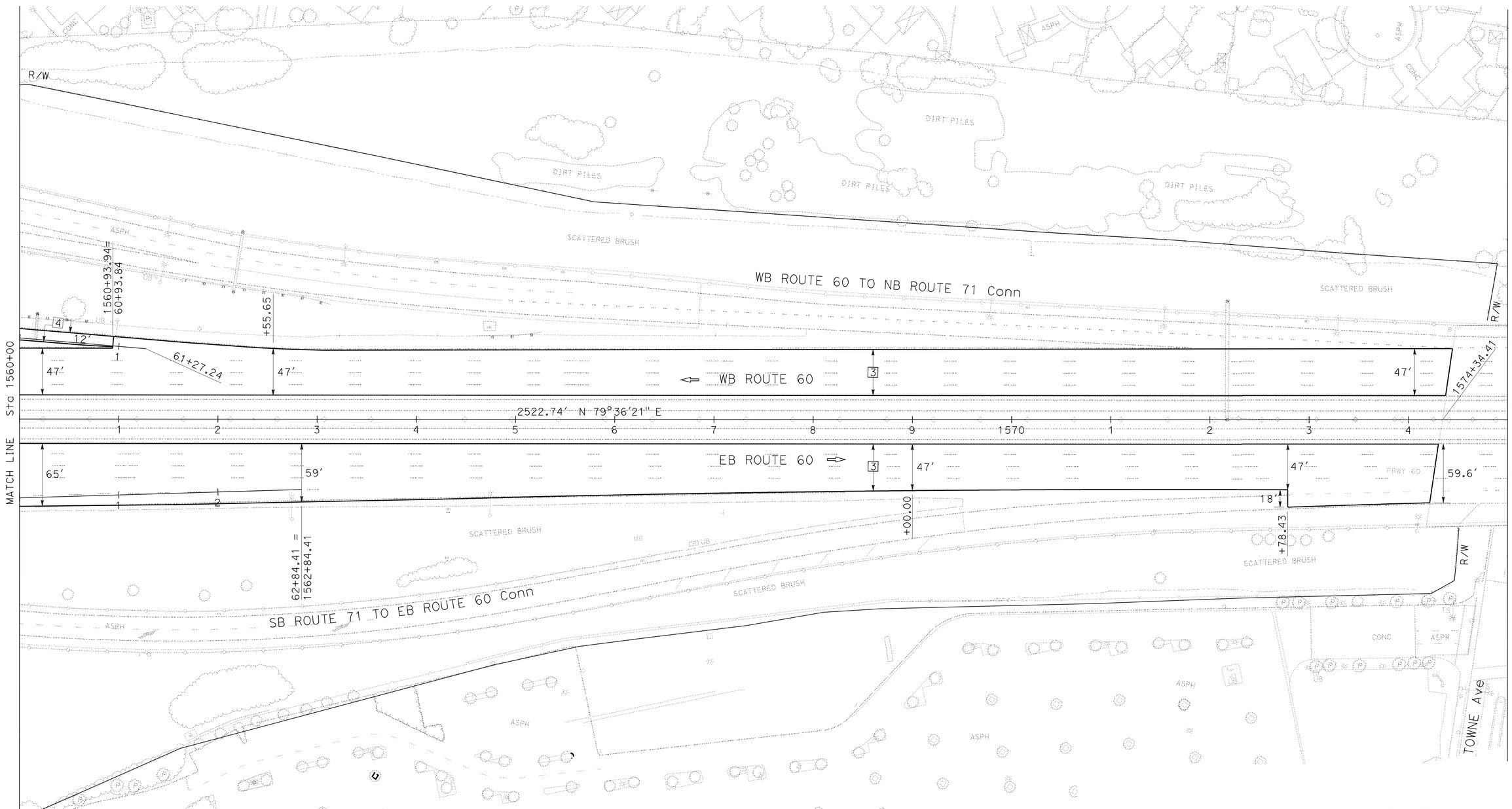
NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT

SCALE: 1" = 50'

L-25

REVISED BY	
DATE REVISED	
STEVE PHAM	
SHAO-CHIANG LIU	
CALCULATED-DESIGNED BY	
CHECKED BY	
FUNCTIONAL SUPERVISOR	MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:45

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	32	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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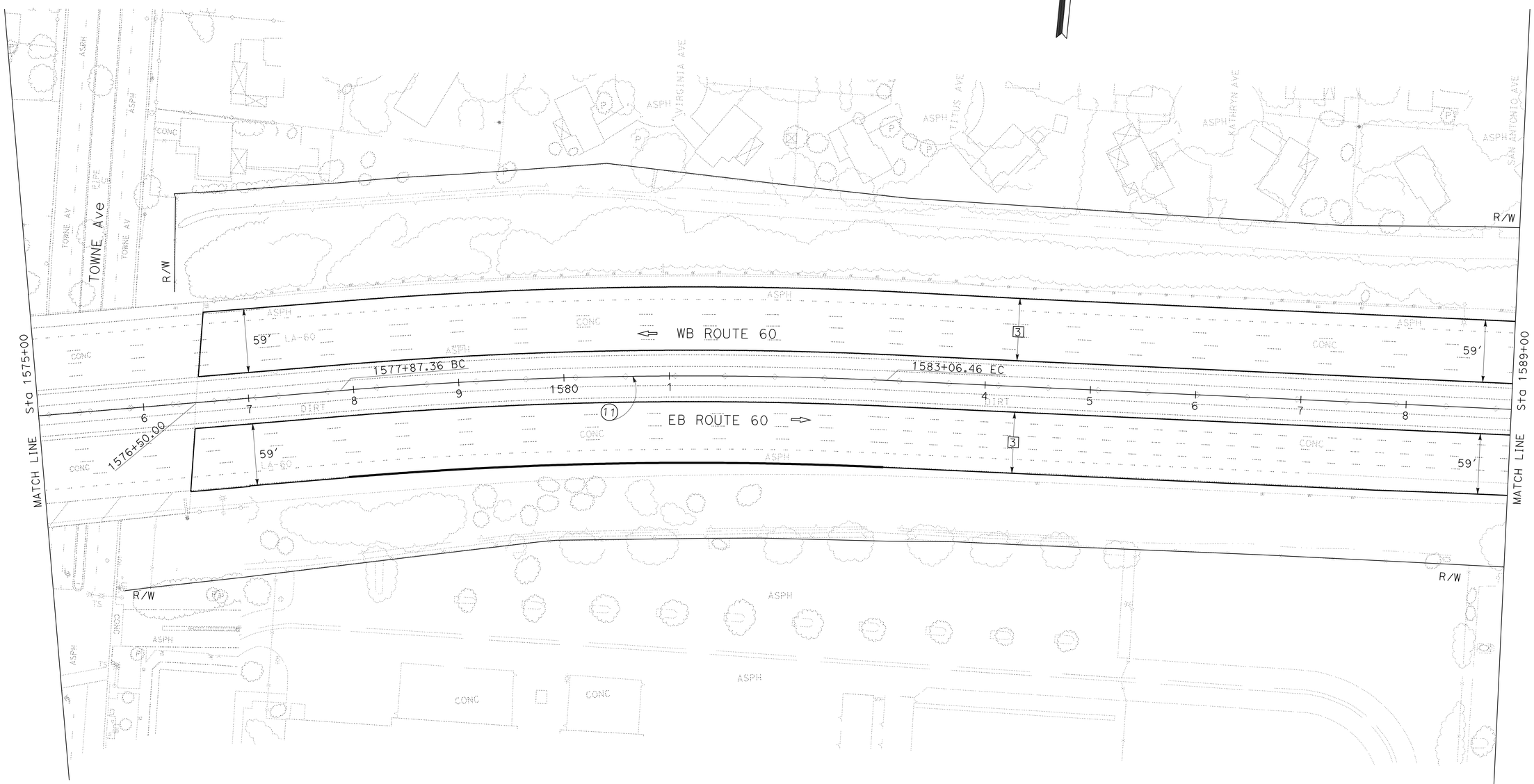
NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

CURVE DATA

No.	R	Δ	T	L
11	3999.99′	7°26′08″	259.92′	519.10′



LAYOUT

SCALE: 1" = 50′ **L-26**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	33	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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NOTE:
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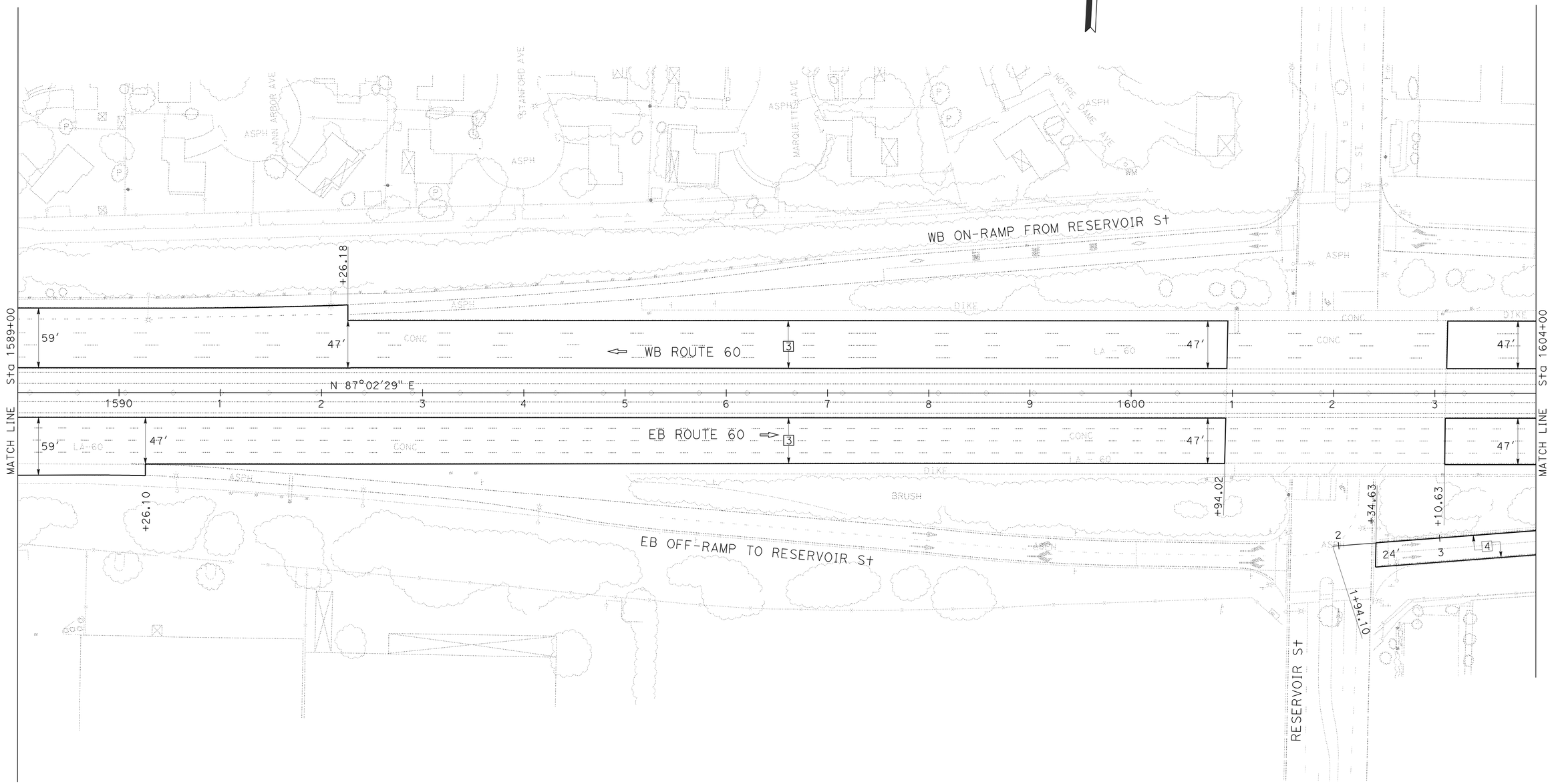
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



LAYOUT
SCALE: 1" = 50' **L-27**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN
CALCULATED-DESIGNED BY
STEVE PHAM
CHECKED BY
SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	34	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
STEVE PHAM
No. 67183
Exp. 9/30/10
CIVIL
STATE OF CALIFORNIA

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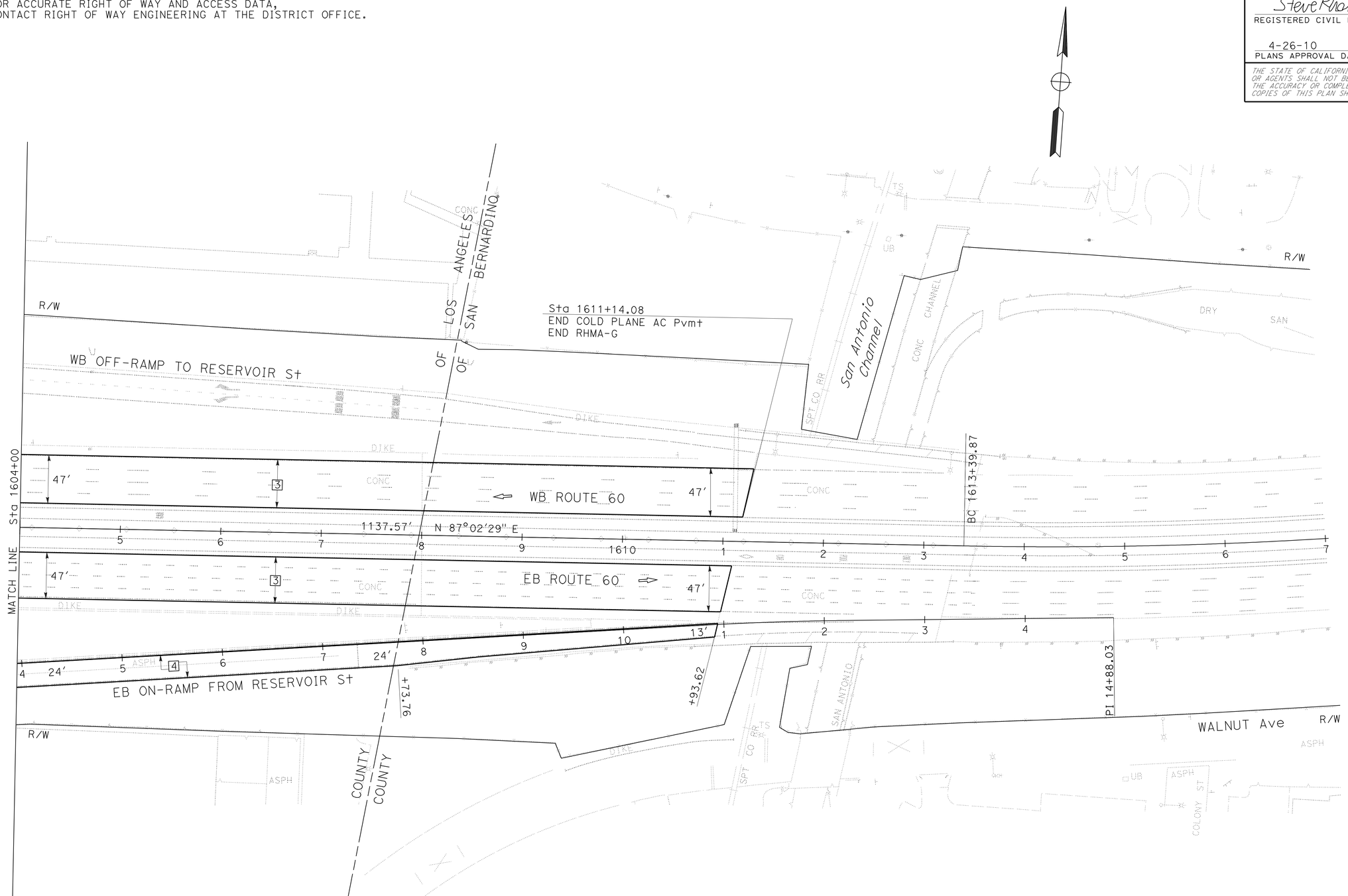


LAYOUT

SCALE: 1" = 50'

L-28

REVISED BY	DATE REVISED

CALCULATED-DESIGNED BY	CHECKED BY
STEVE PHAM	SHAO-CHIANG LIU

FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	35	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

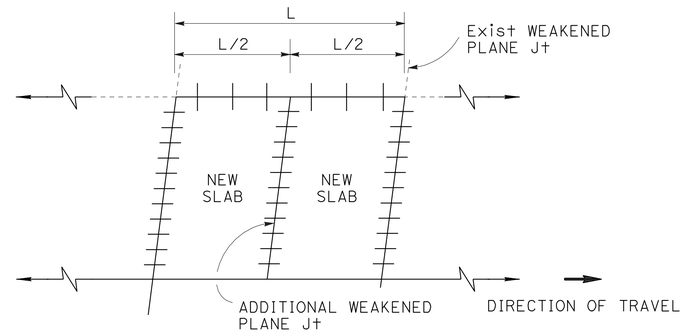
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

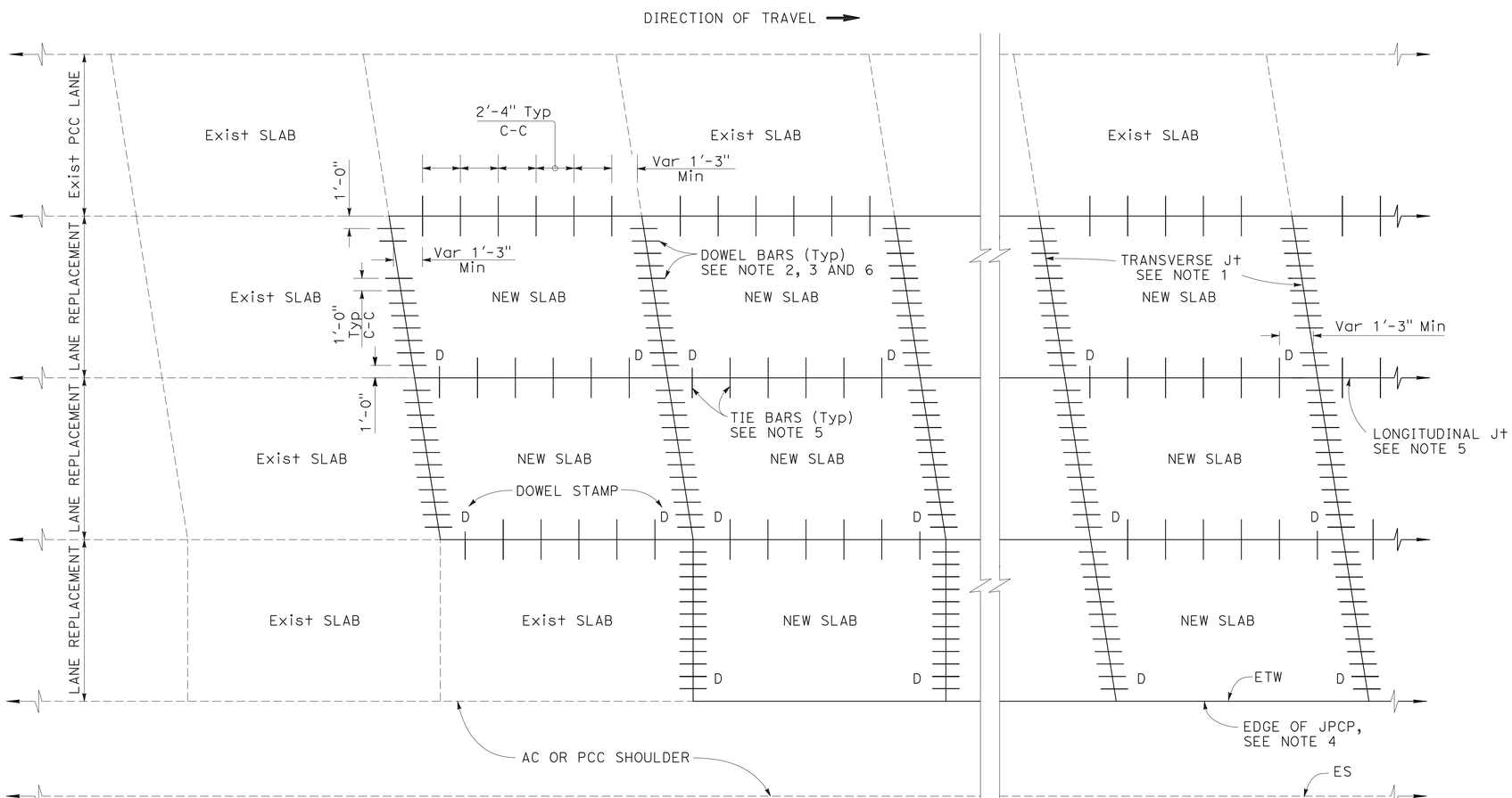
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

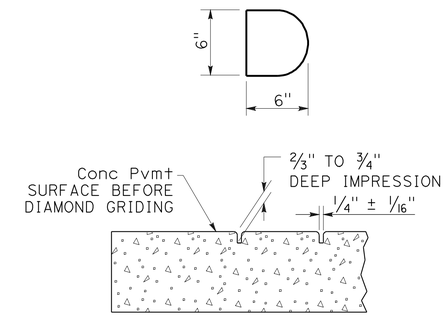
1. NEW TRANSVERSE JOINTS SHALL MATCH THE SKEWED OFFSET AND SPACING OF THE ADJACENT EXISTING TRANSVERSE JOINTS AS SHOWN.
2. DOWELS INSTALLED AT TRANSVERSE JOINTS SHALL BE PARALLEL TO THE DIRECTION OF TRAVEL.
3. DOWELS INSTALLED AT TRANSVERSE JOINTS BETWEEN FRESH SLABS SHALL USE DOWEL BAR BASKETS. FOR DOWEL BAR BASKET DETAILS, SEE REVISED STANDARD PLAN P10 AND CONSTRUCTION DETAILS C-2.
4. SIDE FORM SHALL BE USED WHERE EDGE OF PAVEMENT IS ADJACENT TO ASPHALT CONCRETE.
5. FOR LONGITUDINAL JOINT AND TIE BAR DETAILS, SEE REVISED STANDARD PLAN P1, P18 AND P20.
6. FOR TRANSVERSE JOINT AND DOWEL BAR DETAILS NOT SHOWN, SEE REVISED STANDARD PLAN P10, P12, AND P20.



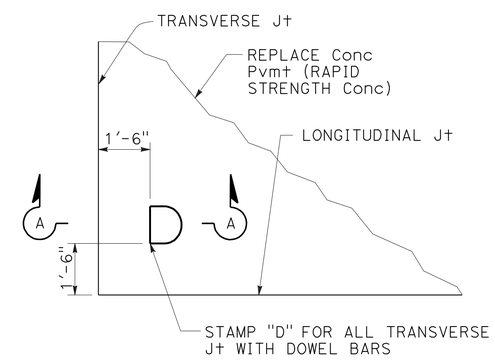
ADDITIONAL WEAKENED PLANE JOINT ON NEW SLAB REPLACEMENT (LENGTH GREATER THAN 15')



PLAN



SECTION A-A



DOWEL STAMP DETAIL

JOINTED PLAIN CONCRETE PAVEMENT REPLACEMENT

CONSTRUCTION DETAILS

NO SCALE

C-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
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CALCULATED-DESIGNED BY SHAO-CHIANG LIU
CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 DATE PLOTTED => 29-APR-2010 TIME PLOTTED => 10:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	36	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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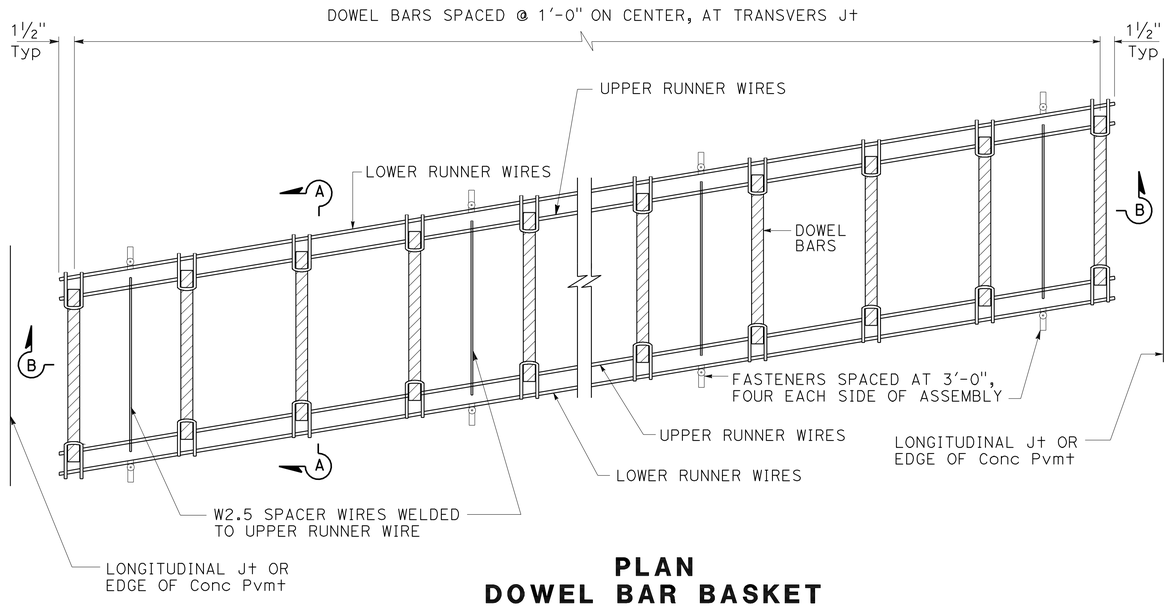
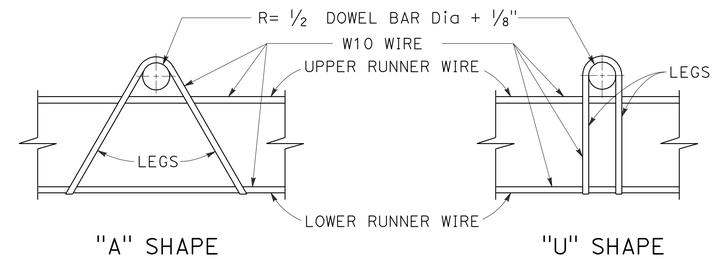


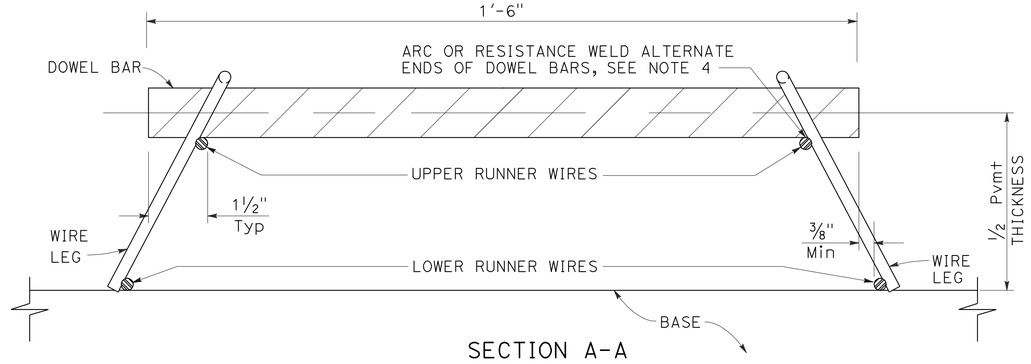
PLAN
DOWEL BAR BASKET
(SKEWED TRANSVERSE JOINT)

NOTES:

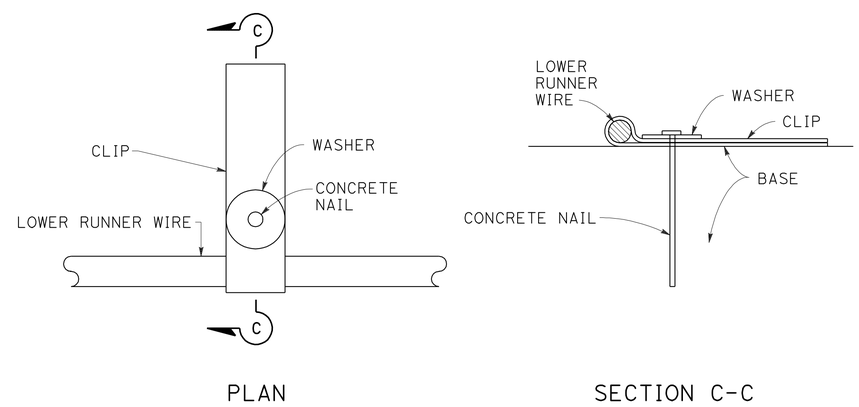
1. "U" FRAME SHAPE ASSEMBLY SHOWN. "U" FRAME SHAPE OR "A" FRAME SHAPE ARE ACCEPTABLE.
2. WIRE SIZES SHOWN ARE MINIMUM REQUIRED.
3. ALL WIRE INTERSECTIONS ARE TO BE RESISTANCE WELDED.
4. WELD MAY BE AT TOP OR BOTTOM OF DOWEL BAR.



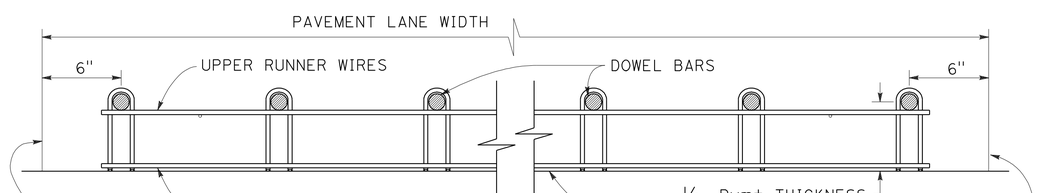
ASSEMBLY FRAME DETAILS



SECTION A-A



FASTENER DETAILS



SECTION B-B
SEE NOTE 1

CONCRETE PAVEMENT-
DOWEL BAR BASKET DETAILS

CONSTRUCTION DETAILS
NO SCALE

C-2

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CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:20

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07	LA	60	R23.9/R30.5	37	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
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REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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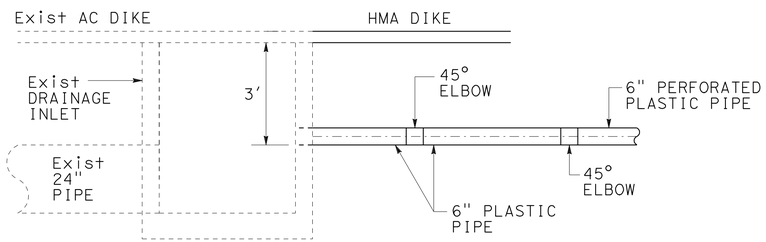
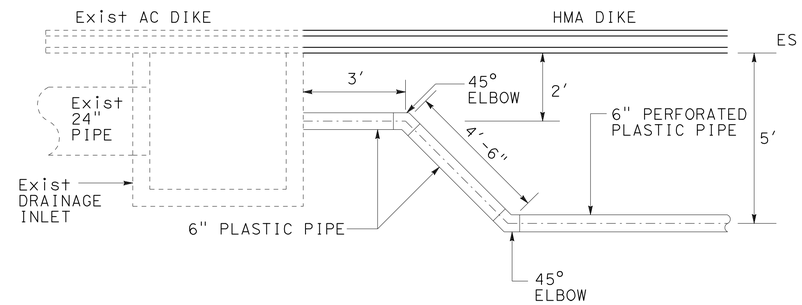
LEGEND

+20 CR 1.0	STATION CLEANOUT RISER LENGTH OF 6" PLASTIC PIPE UNDERDRAIN IN FOOT
←	DIRECTION OF FLOW

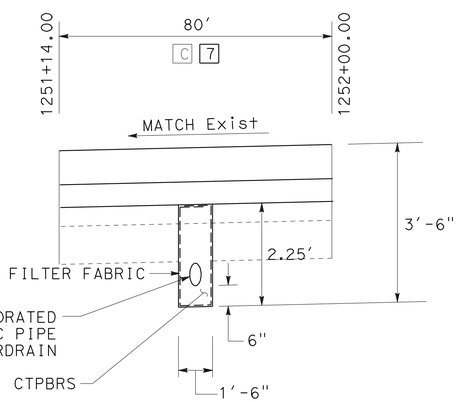


ELEVATION

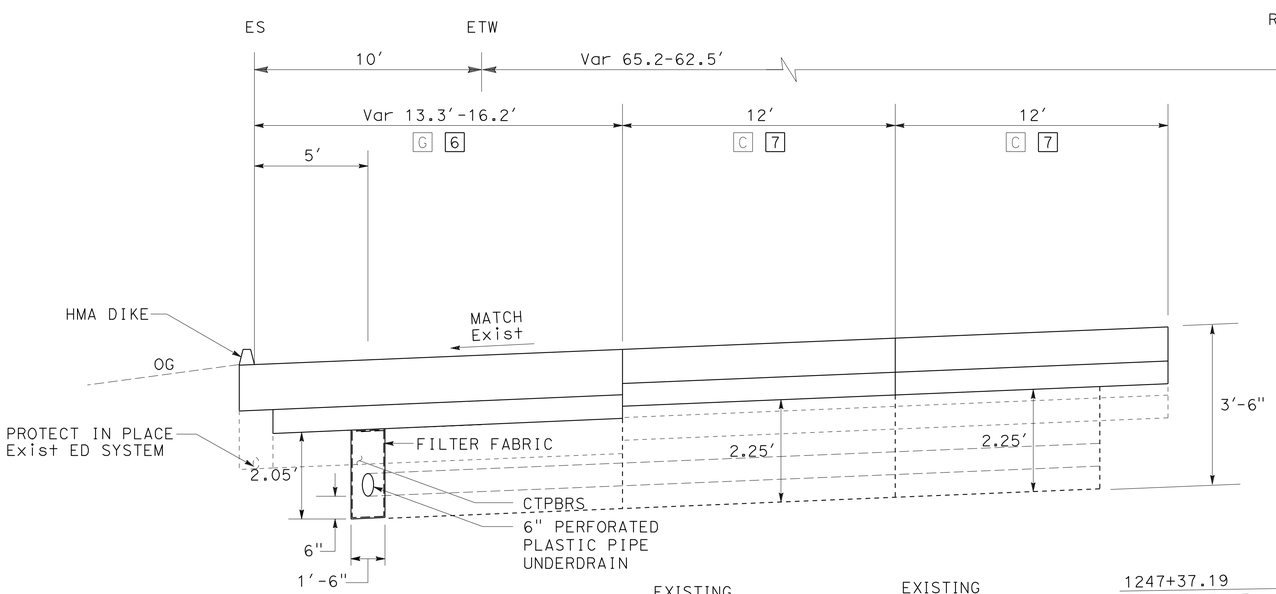


TOP

CONNECTION AT EXISTING DRAINAGE INLET DETAIL



TYPICAL CROSS SECTION
AT LANE No. 2, AND No. 3



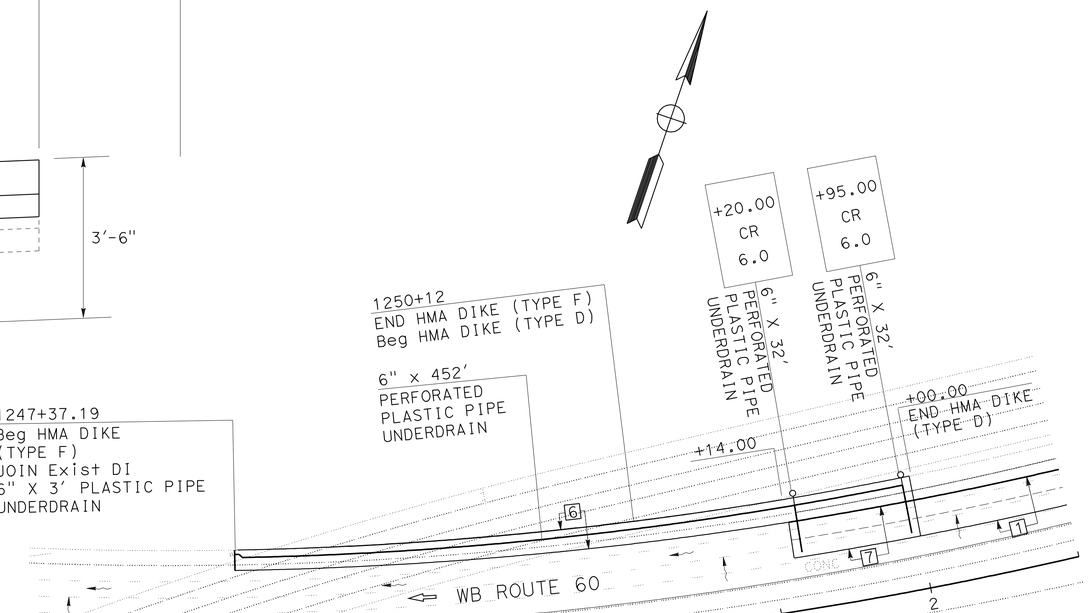
TYPICAL CROSS SECTION

	EXISTING
G	0.95' PCC 0.50' LCB 0.70' CI 3 AB

	PROPOSED
6	0.95' RSC --- BOND BREAKER 0.50' LCBRS 2.05' CTPBRS

	EXISTING
C	0.75' PCC 0.50' CTB (CI A) 0.25' CI 3 AB 0.50' CI 4 AS

	PROPOSED
7	0.75' RSC ------ BOND BREAKER 0.50' LCBRS 2.25' CTPBRS



CONSTRUCTION DETAILS

NO SCALE

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY STEVE PHAM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	38	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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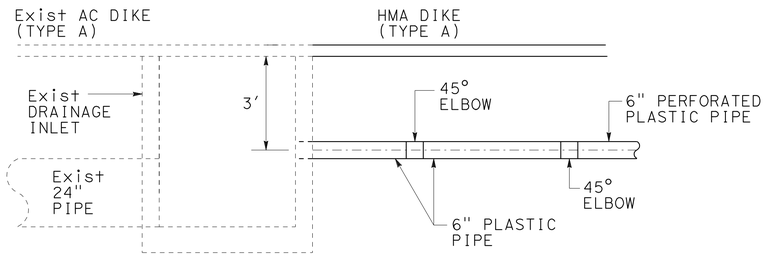
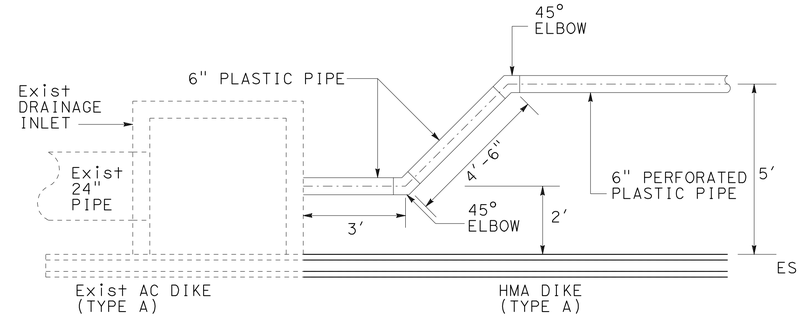
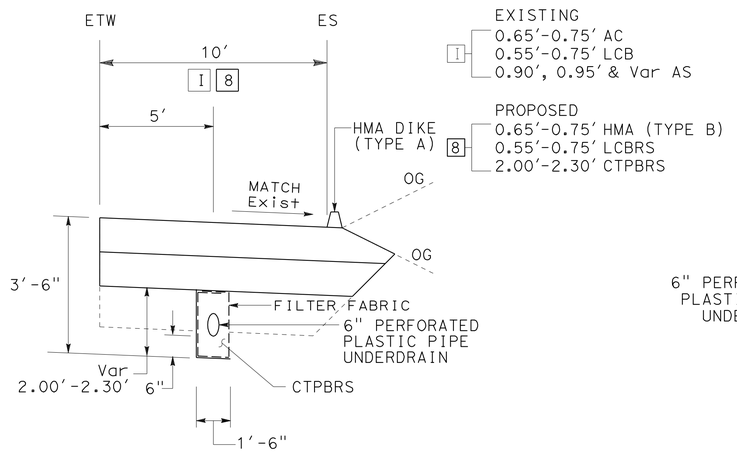


ELEVATION

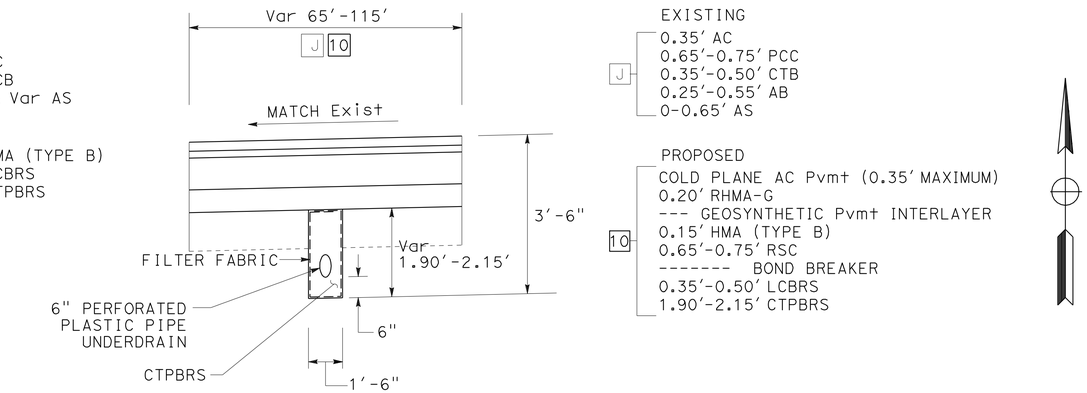


TOP

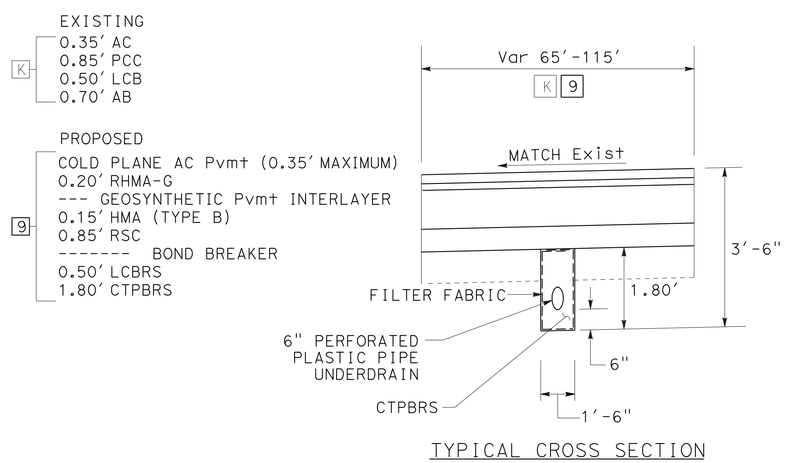
CONNECTION AT EXISTING DRAINAGE INLET DETAIL



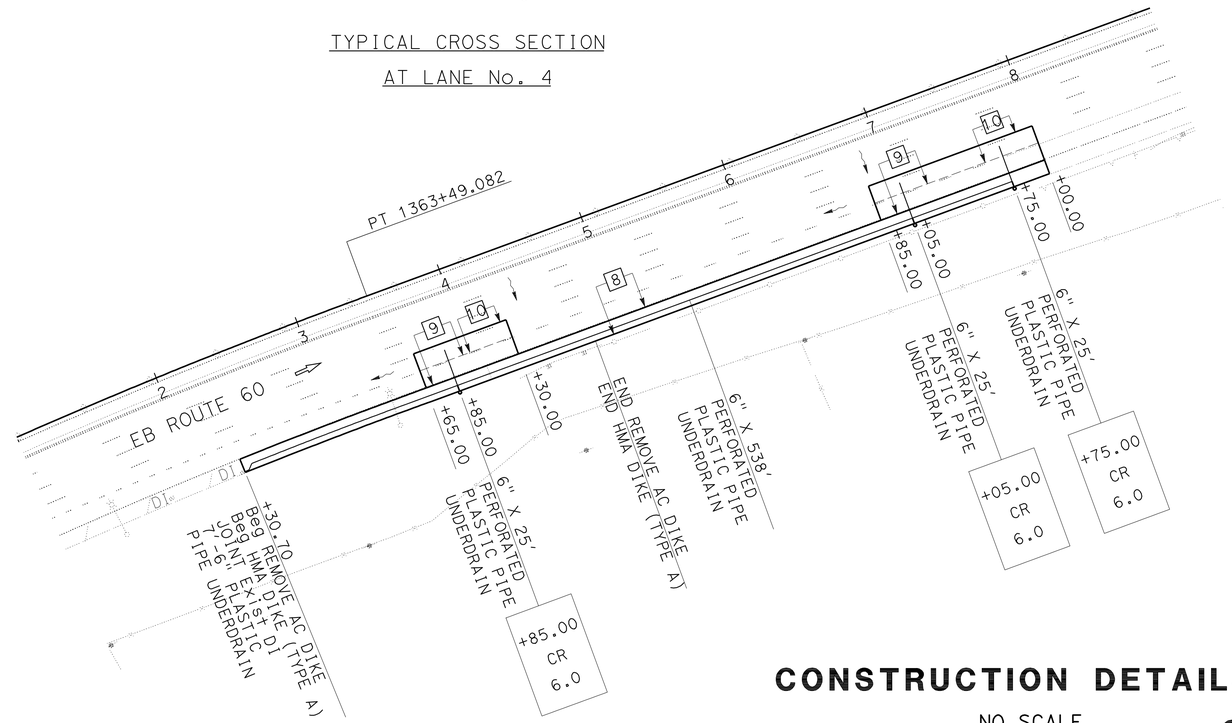
TYPICAL CROSS SECTION AT SHOULDER



TYPICAL CROSS SECTION AT LANE No. 4



TYPICAL CROSS SECTION AT LANE No. 5



CONSTRUCTION DETAILS

NO SCALE

C-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN
FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	39	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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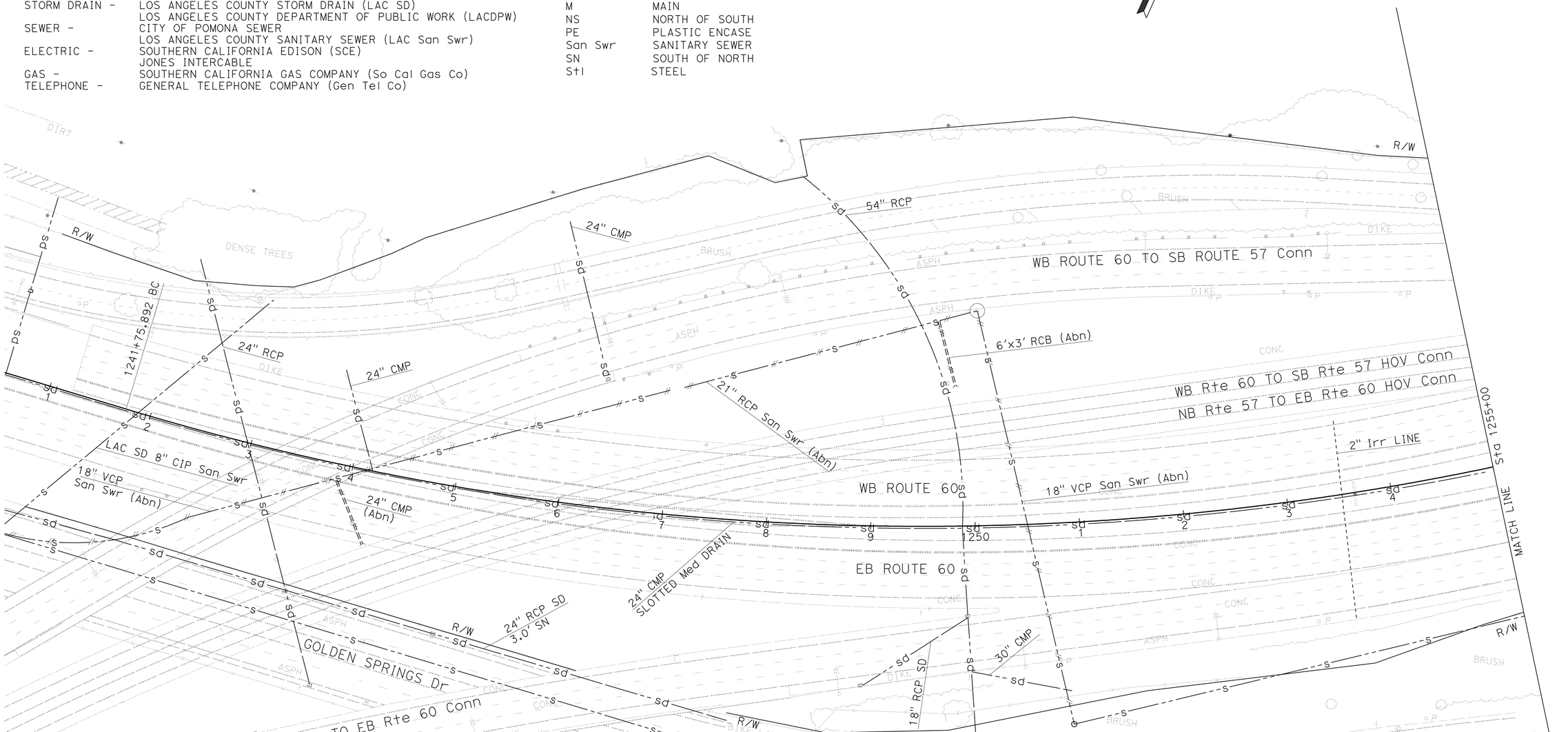
NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. LOCATIONS OF UTILITY FACILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. UTILITY OWNERSHIP ON THIS PROJECT:

WATER -	CITY OF POMONA WATER
	CITY OF YORBA LINDA FEEDER WATER
	METROPOLITAN WATER DISTRICT (MWD)
	WALNUT VALLEY WATER DISTRICT
	DIAMOND BAR WATER COMPANY
STORM DRAIN -	LOS ANGELES COUNTY STORM DRAIN (LAC SD)
	LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORK (LACDPW)
SEWER -	CITY OF POMONA SEWER
	LOS ANGELES COUNTY SANITARY SEWER (LAC San Swr)
ELECTRIC -	SOUTHERN CALIFORNIA EDISON (SCE)
	JONES INTERCABLE
GAS -	SOUTHERN CALIFORNIA GAS COMPANY (So Cal Gas Co)
TELEPHONE -	GENERAL TELEPHONE COMPANY (Gen Tel Co)

ABBREVIATIONS:

ACD	ASBESTOS CEMENT DUCT
Bu Ca	BURIED CABLE
CB	CATCH BASIN
CCP	CENTRIFUGAL CONCRETE PIPE
CSG	CASING
CP	CONCRETE PIPE
Du	DUCT
EW	EAST OF WEST
GDO	DRAINAGE INLET (TYPE GDO)
GO	DRAINAGE INLET (TYPE GO)
H	HIGH PRESSURE
M	MAIN
NS	NORTH OF SOUTH
PE	PLASTIC ENCASE
San Swr	SANITARY SEWER
SN	SOUTH OF NORTH
Stl	STEEL



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:20

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.

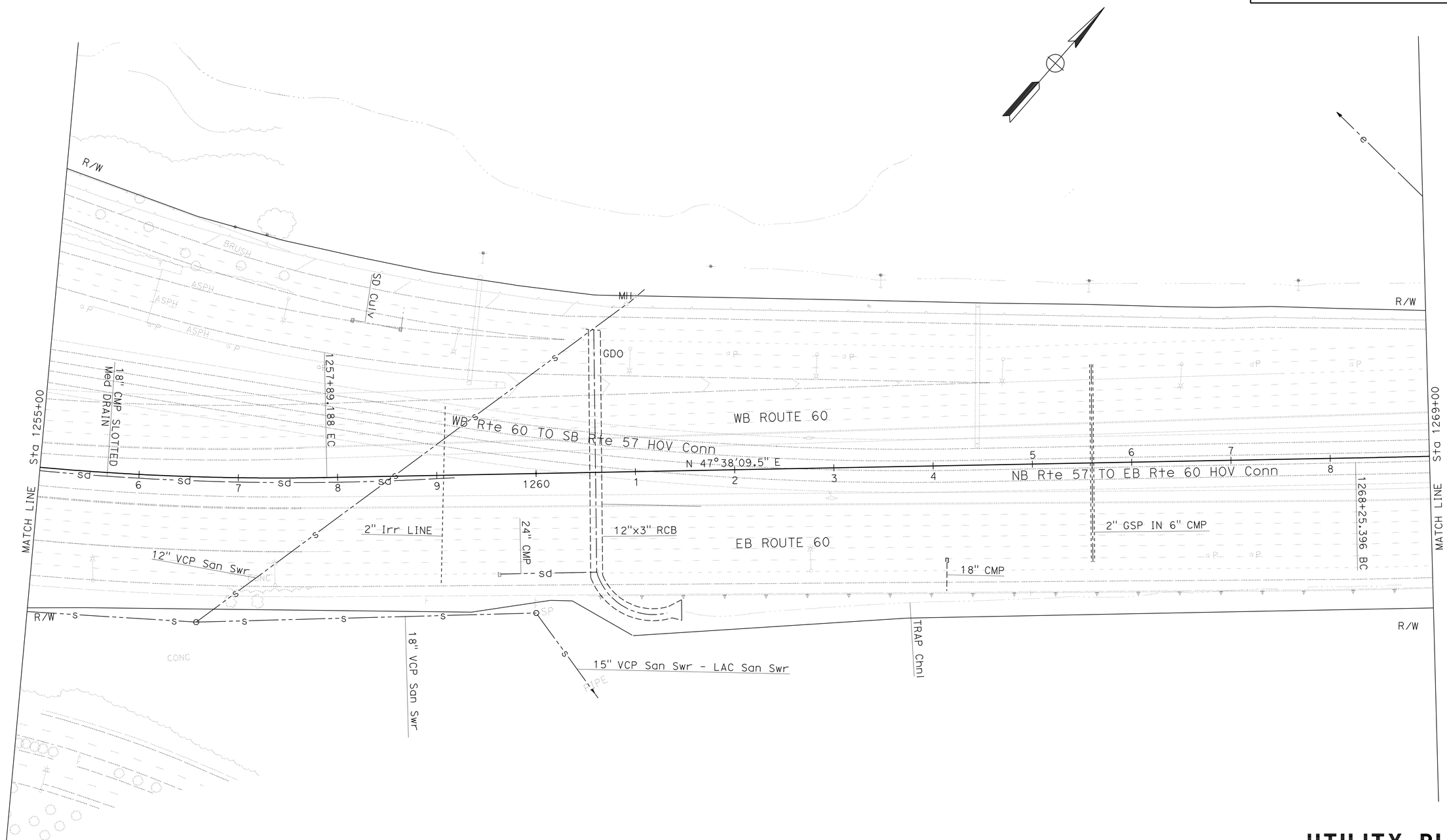
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	40	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



UTILITY PLAN

SCALE: 1" = 50'

U-2

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:20

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	41	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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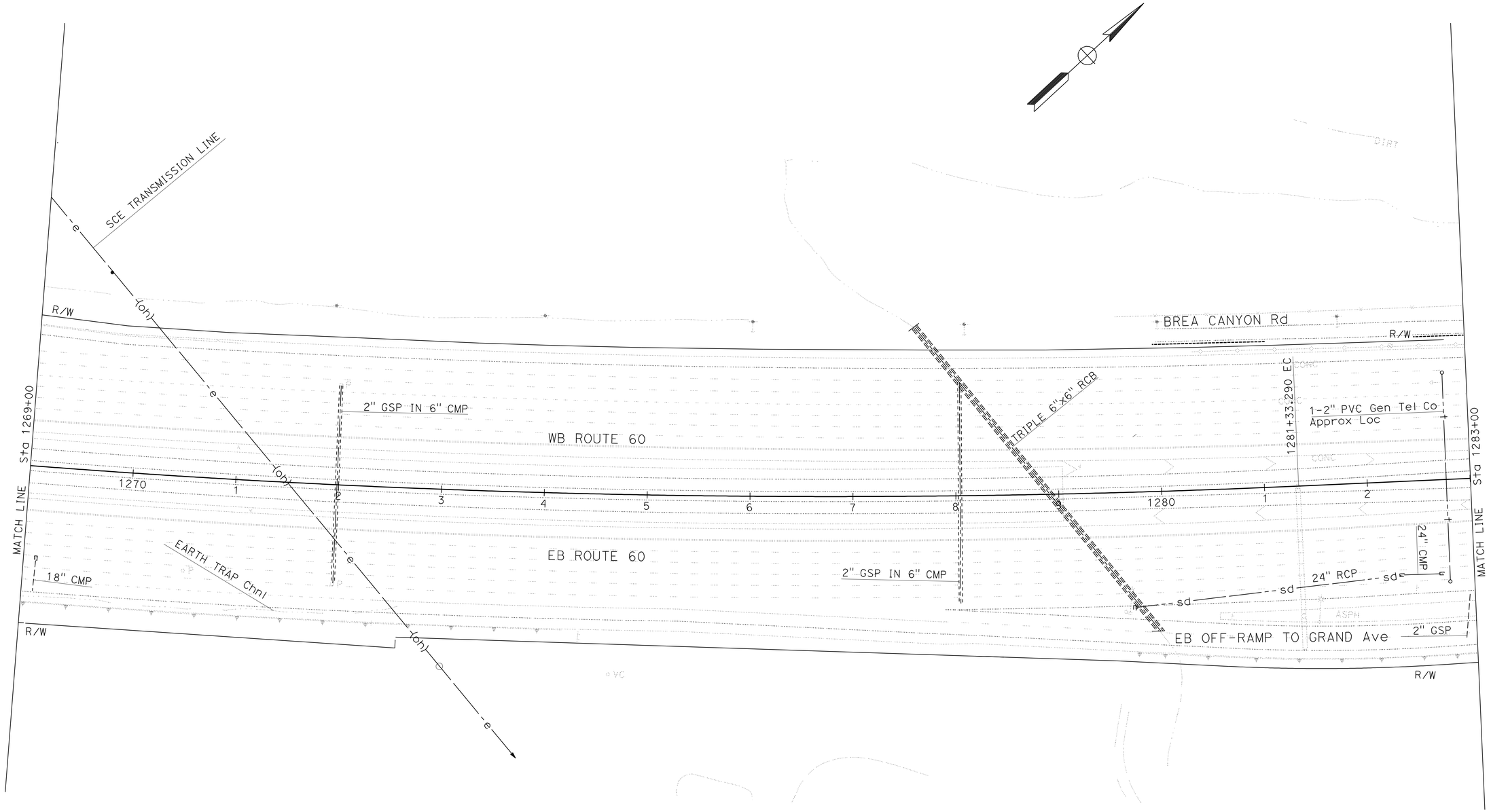
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-3

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	42	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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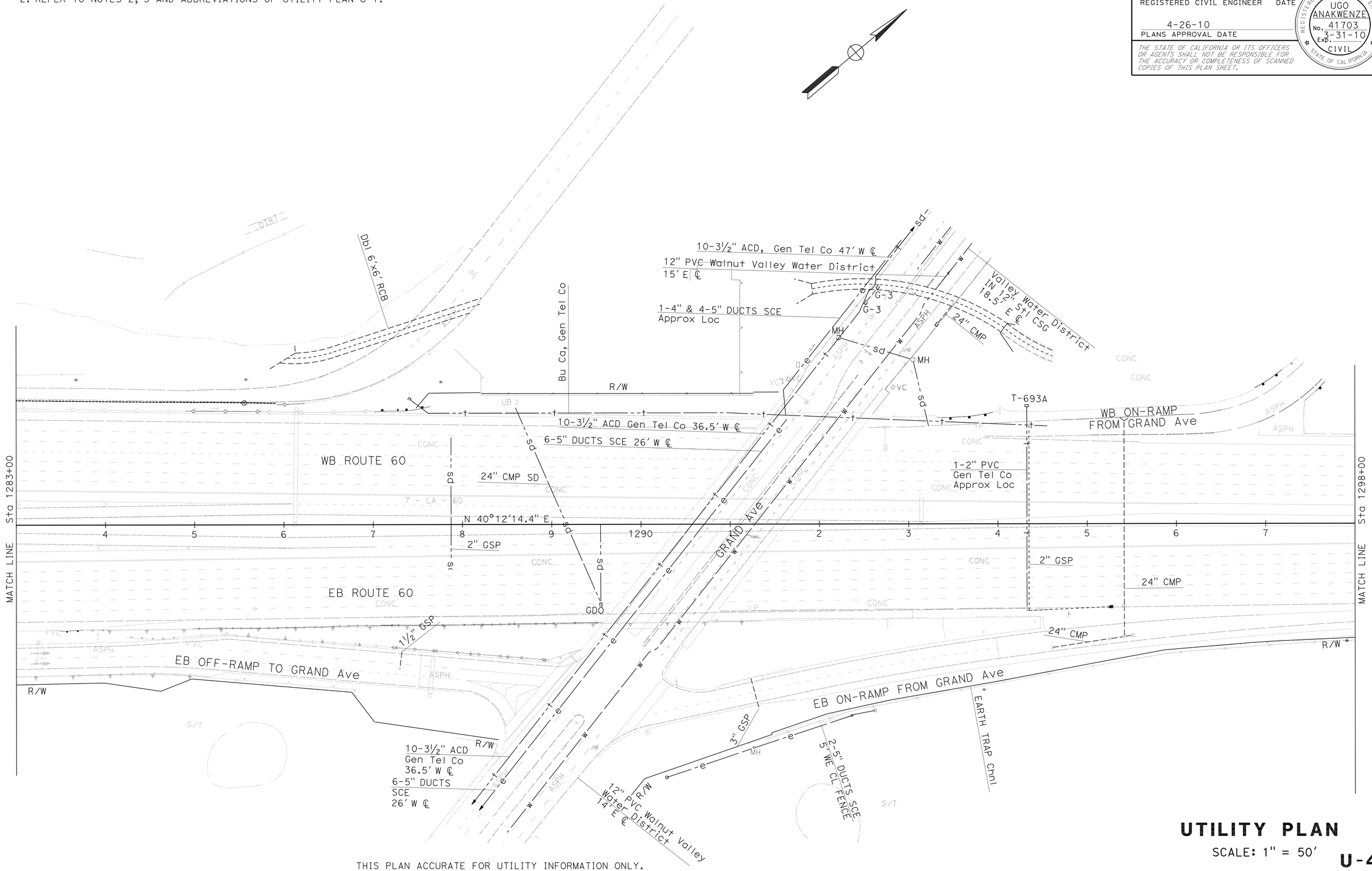

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:53

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrene
DGN FILE => 725330ka004.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	43	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

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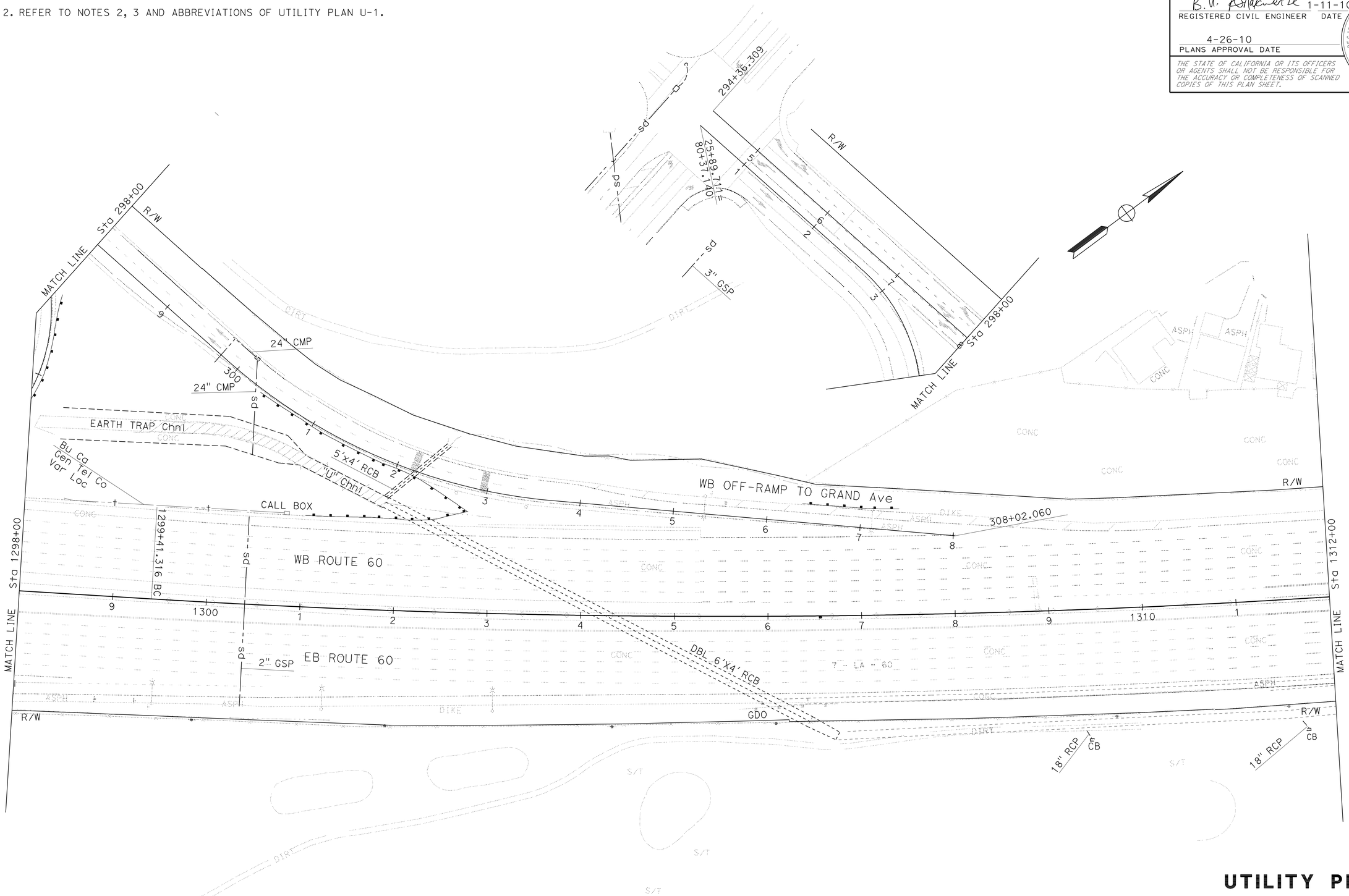
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:53

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrene
DGN FILE => 725330ka005.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	44	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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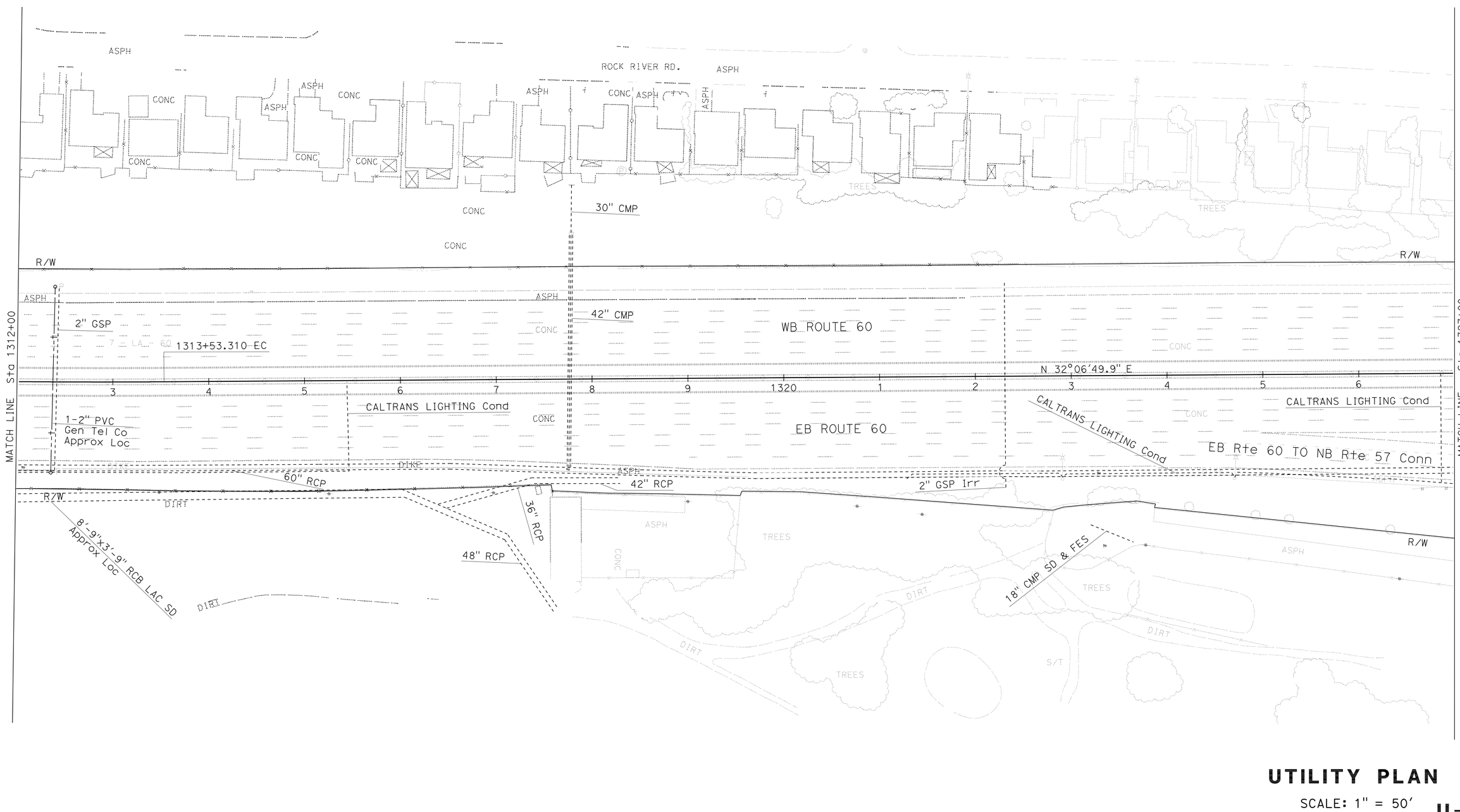

UTILITY PLAN

SCALE: 1" = 50'

U-6

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:53

NOTES:

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2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	45	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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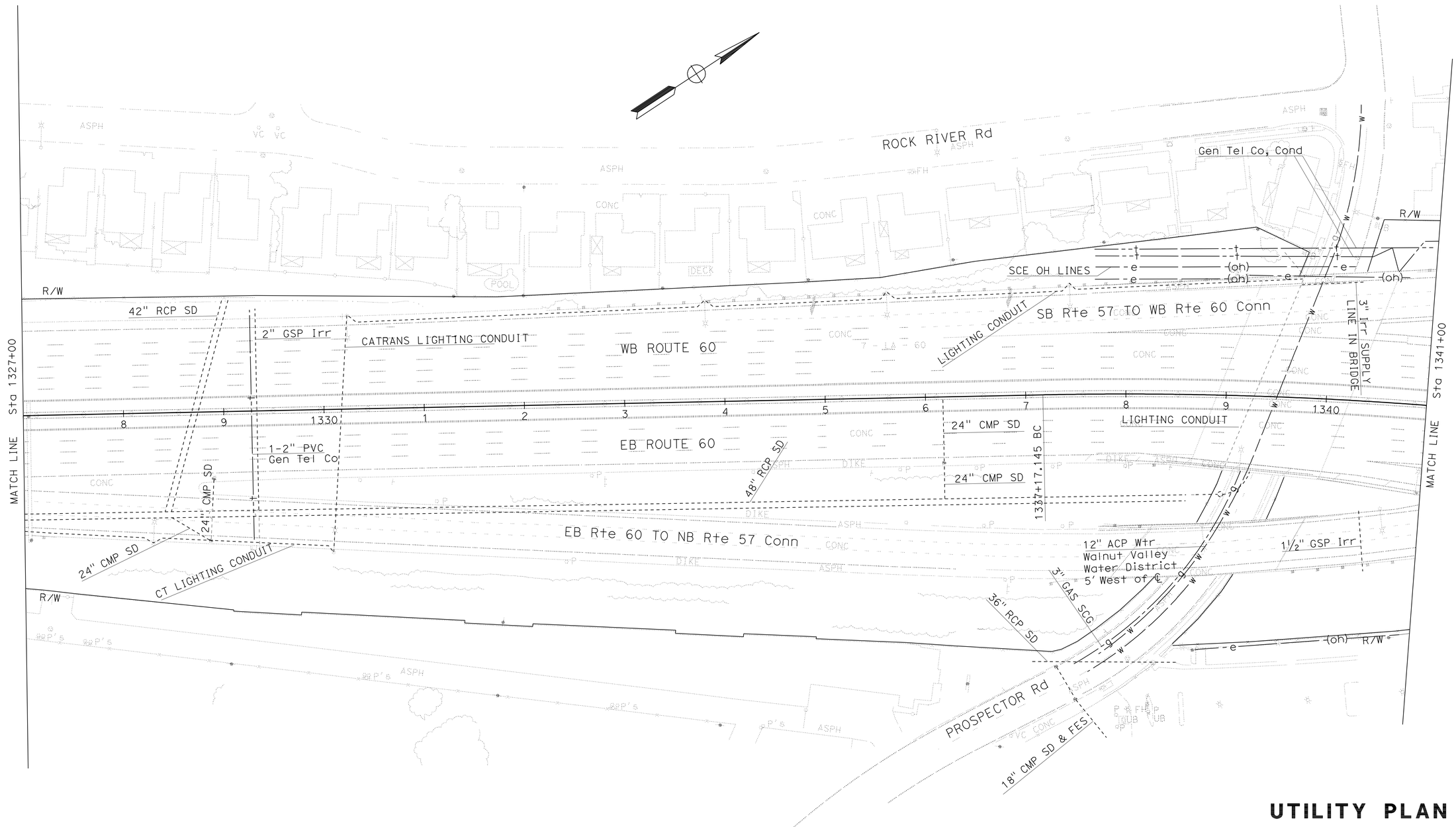

UTILITY PLAN

SCALE: 1" = 50'

U-7

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:53

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	46	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

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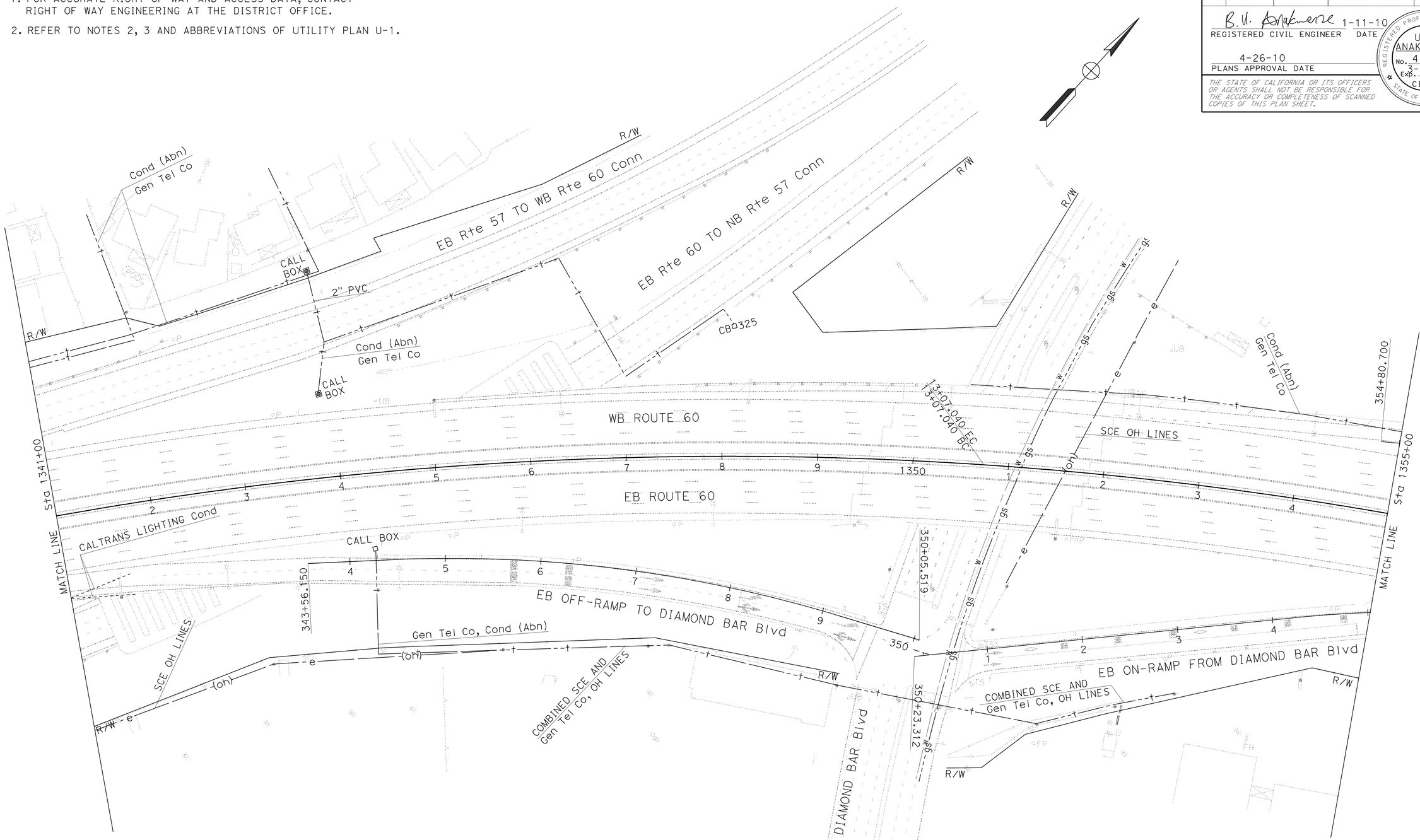

UTILITY PLAN

SCALE: 1" = 50'

U-8

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:25

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => 725330ka008.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	47	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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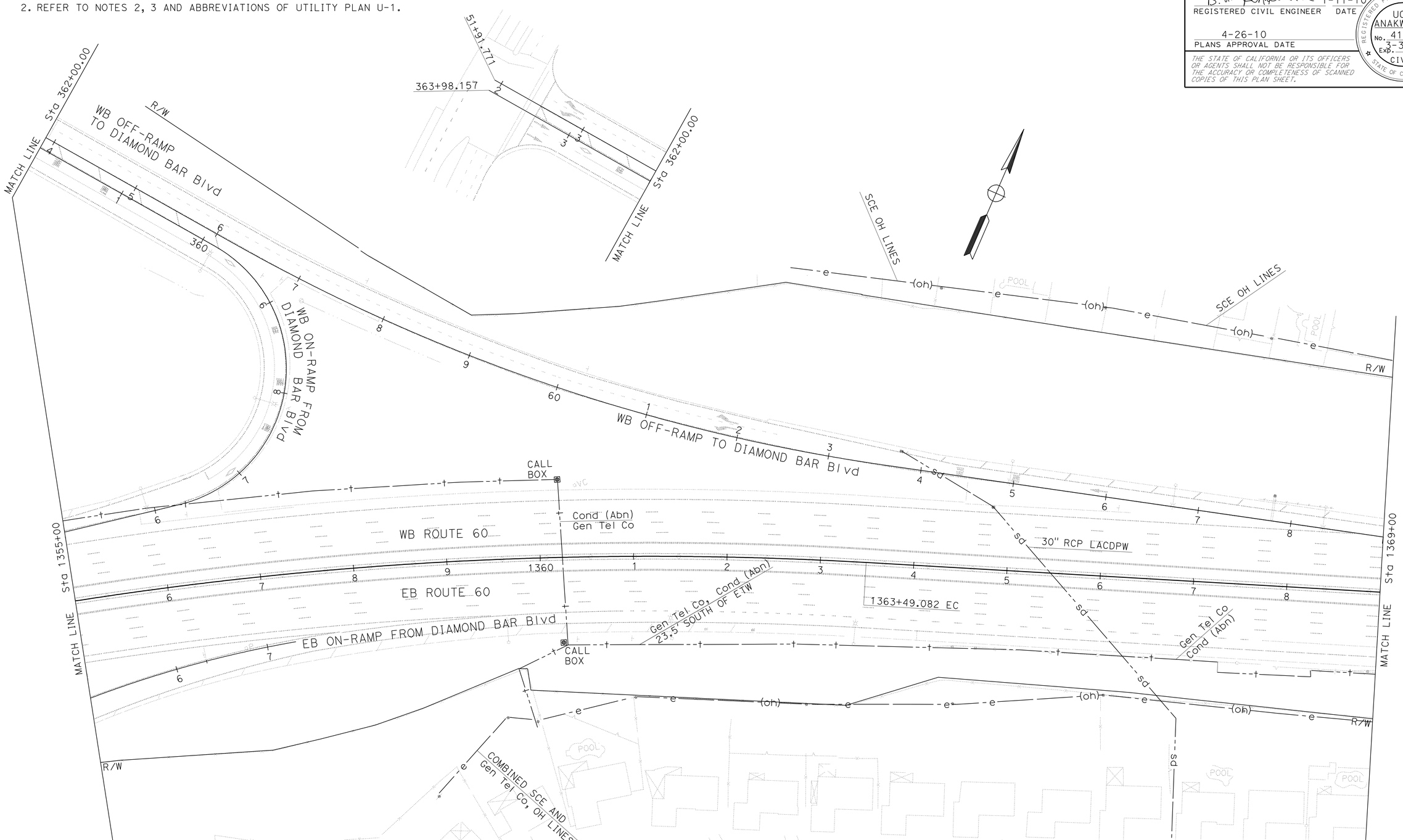

UTILITY PLAN

SCALE: 1" = 50'

U-9

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 | TIME PLOTTED => 11:25

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trrichf | DGN FILE => 725330ka009.dgn | CU 07247 | EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	48	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

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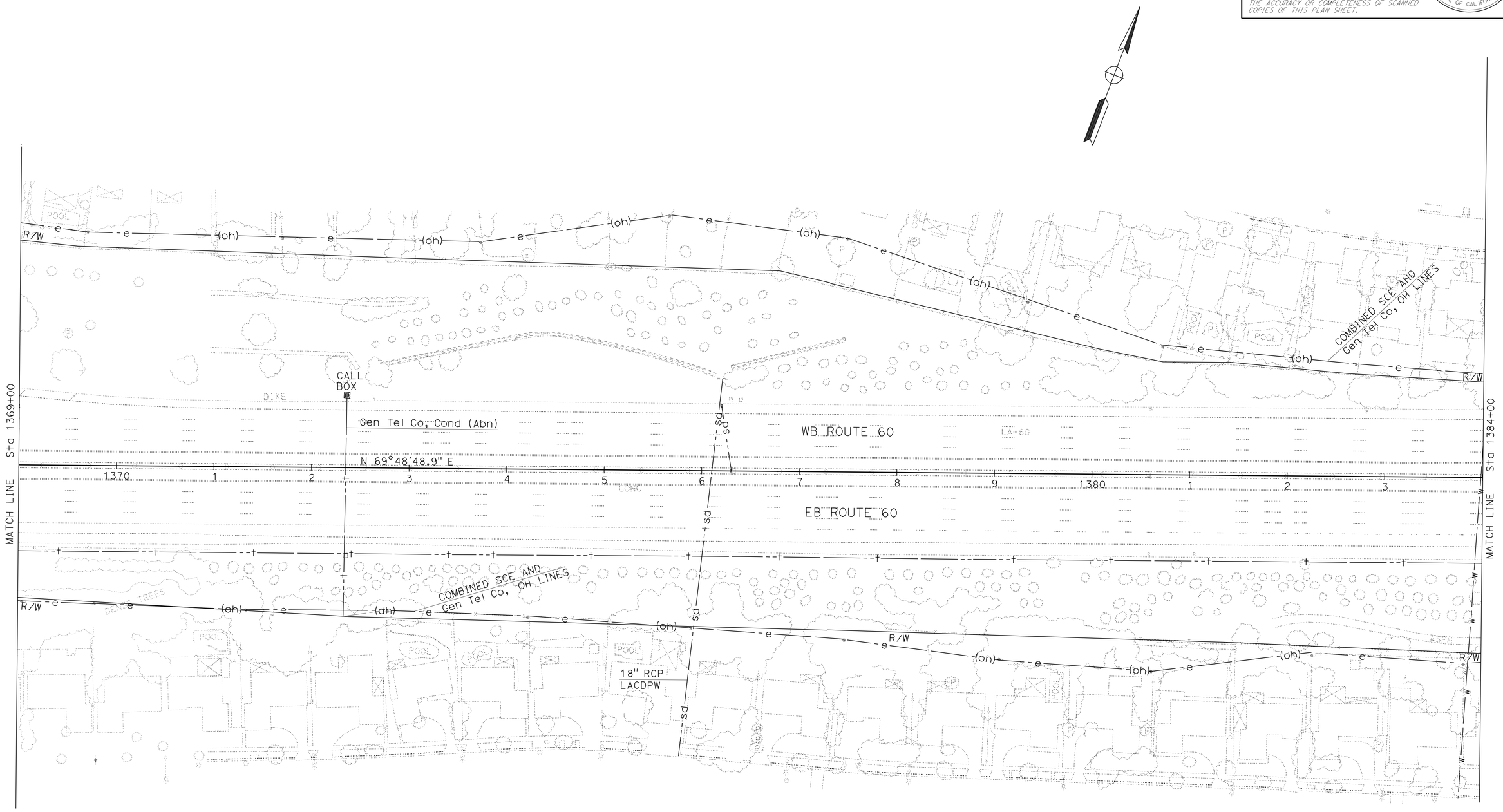

UTILITY PLAN

SCALE: 1" = 50'

U-10

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

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DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:25

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	49	124

B.U. Anakwenze 1-11-10
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4-26-10
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No. 41703
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UTILITY PLAN

SCALE: 1" = 50'

U-11

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => 725330ka011.dgn
CU 07247
EA 253301

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	50	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

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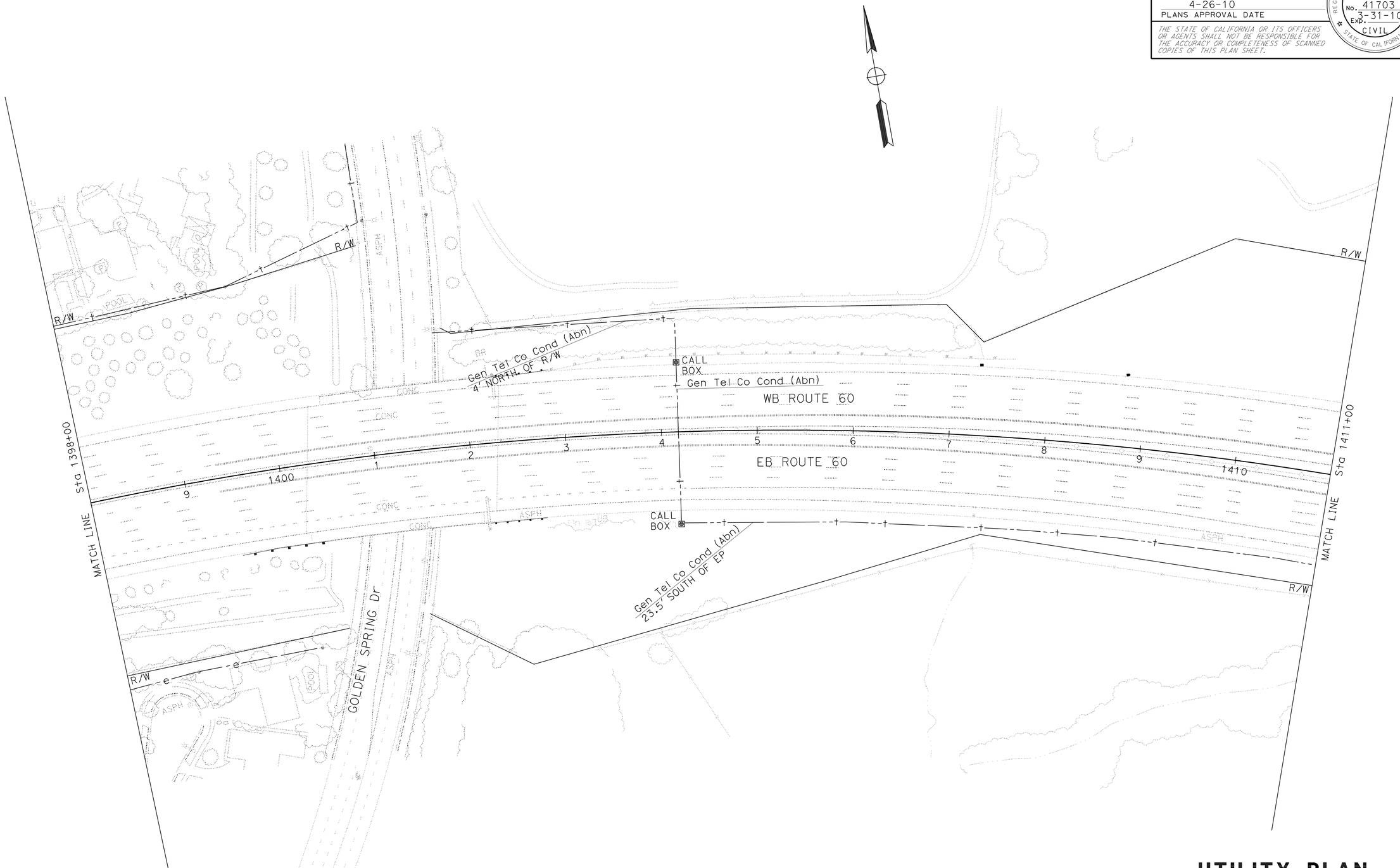

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-12

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	51	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

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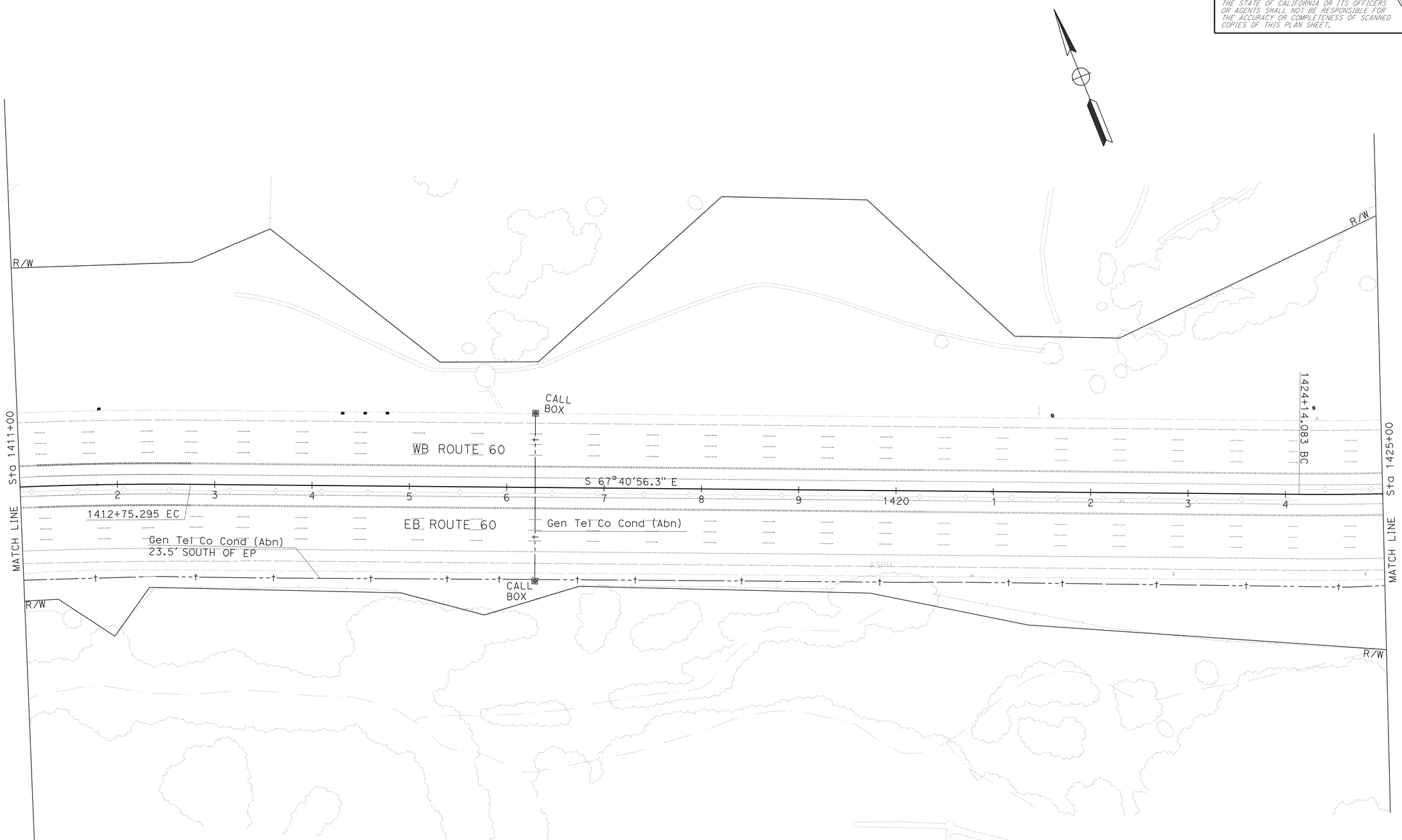

UTILITY PLAN

SCALE: 1" = 50'

U-13

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	52	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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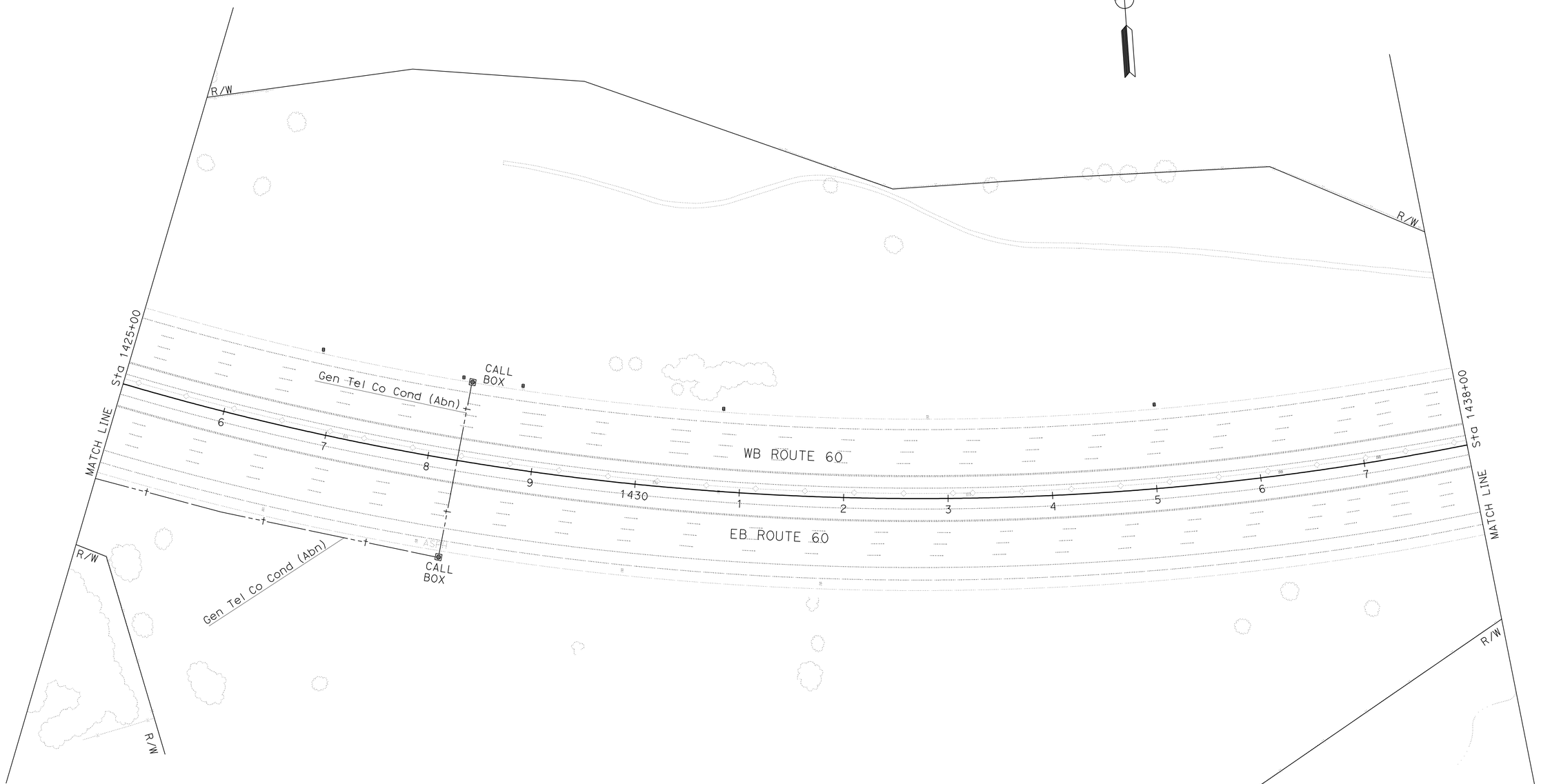

UTILITY PLAN

SCALE: 1" = 50'

U-14

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	53	124

B.U. Anakwenze 1-11-10
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4-26-10
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No. 41703
Exp. 3-31-10
CIVIL
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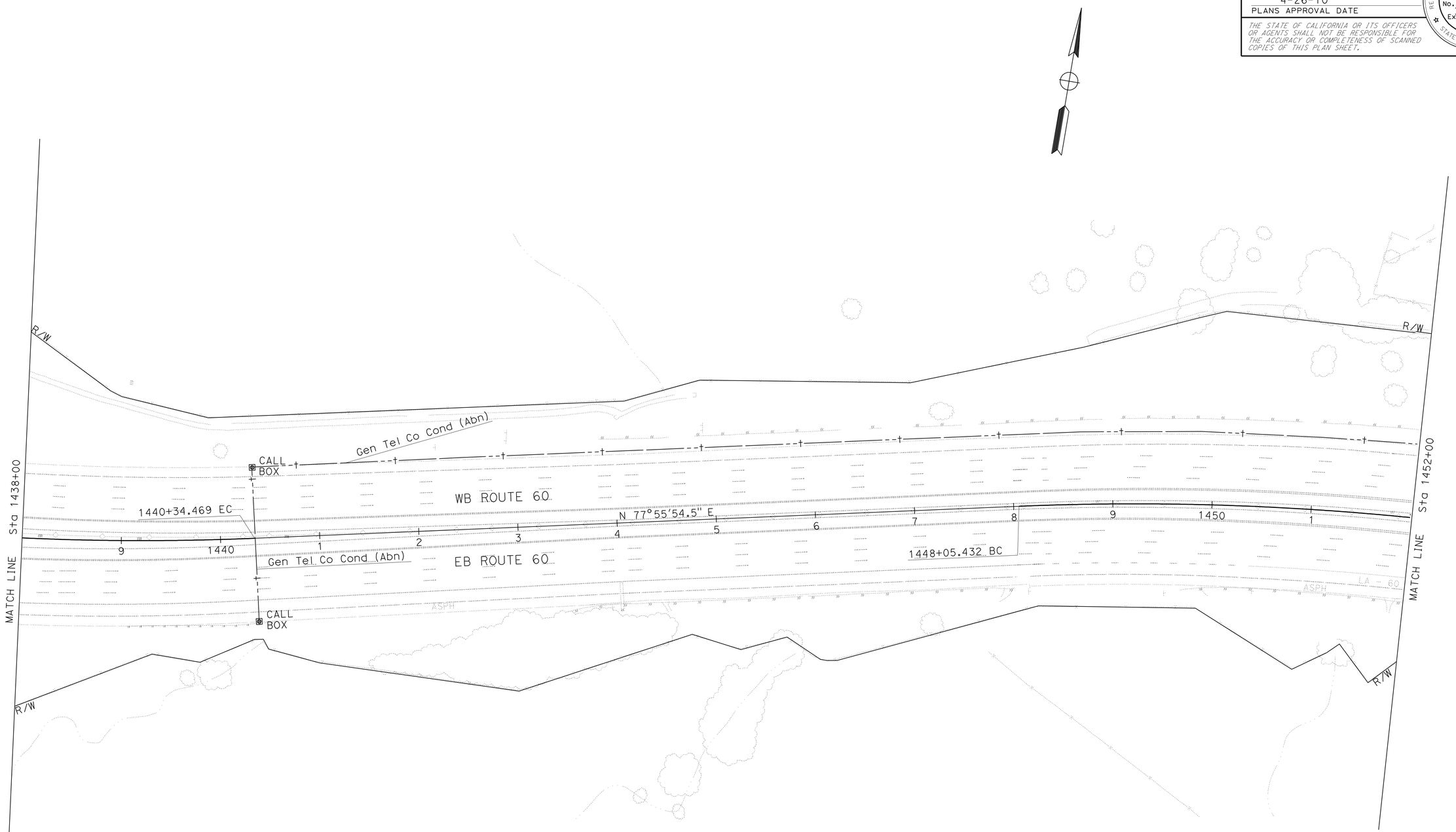


UTILITY PLAN

SCALE: 1" = 50'

U-15

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	54	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

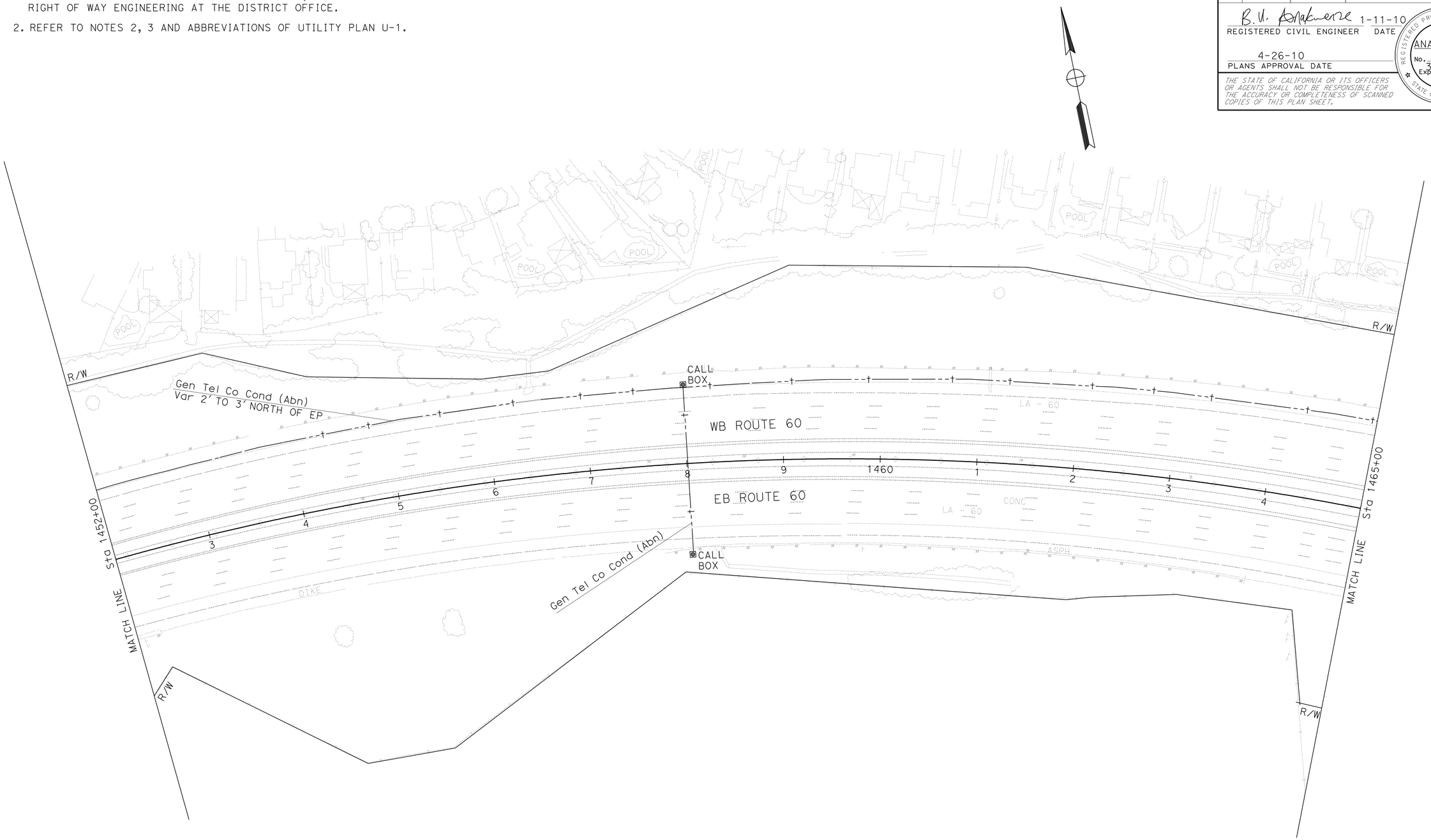
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-16

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	55	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

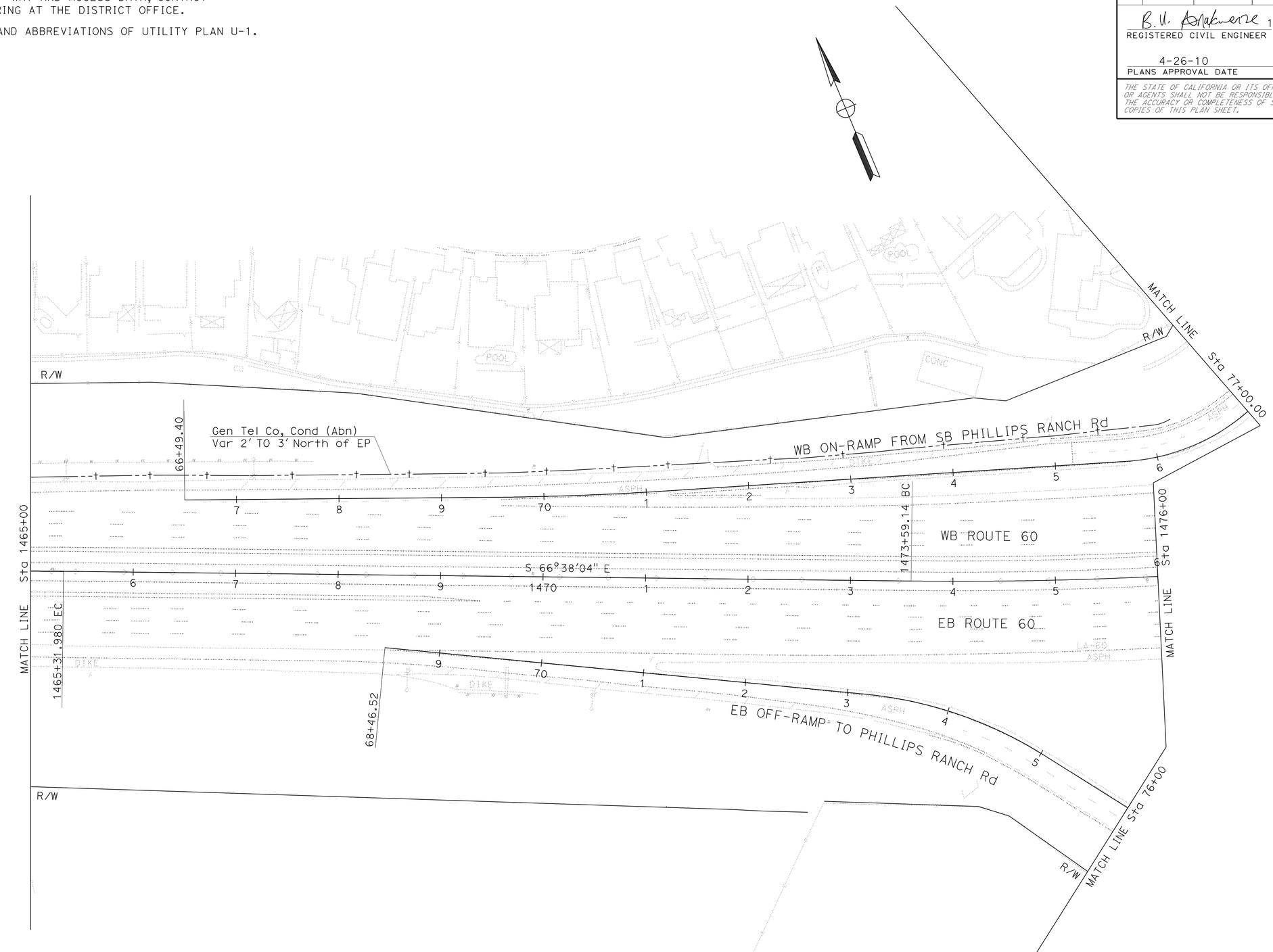
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-17

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:26

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	56	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.

UTILITY PLAN

SCALE: 1" = 50'

U-18

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	57	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

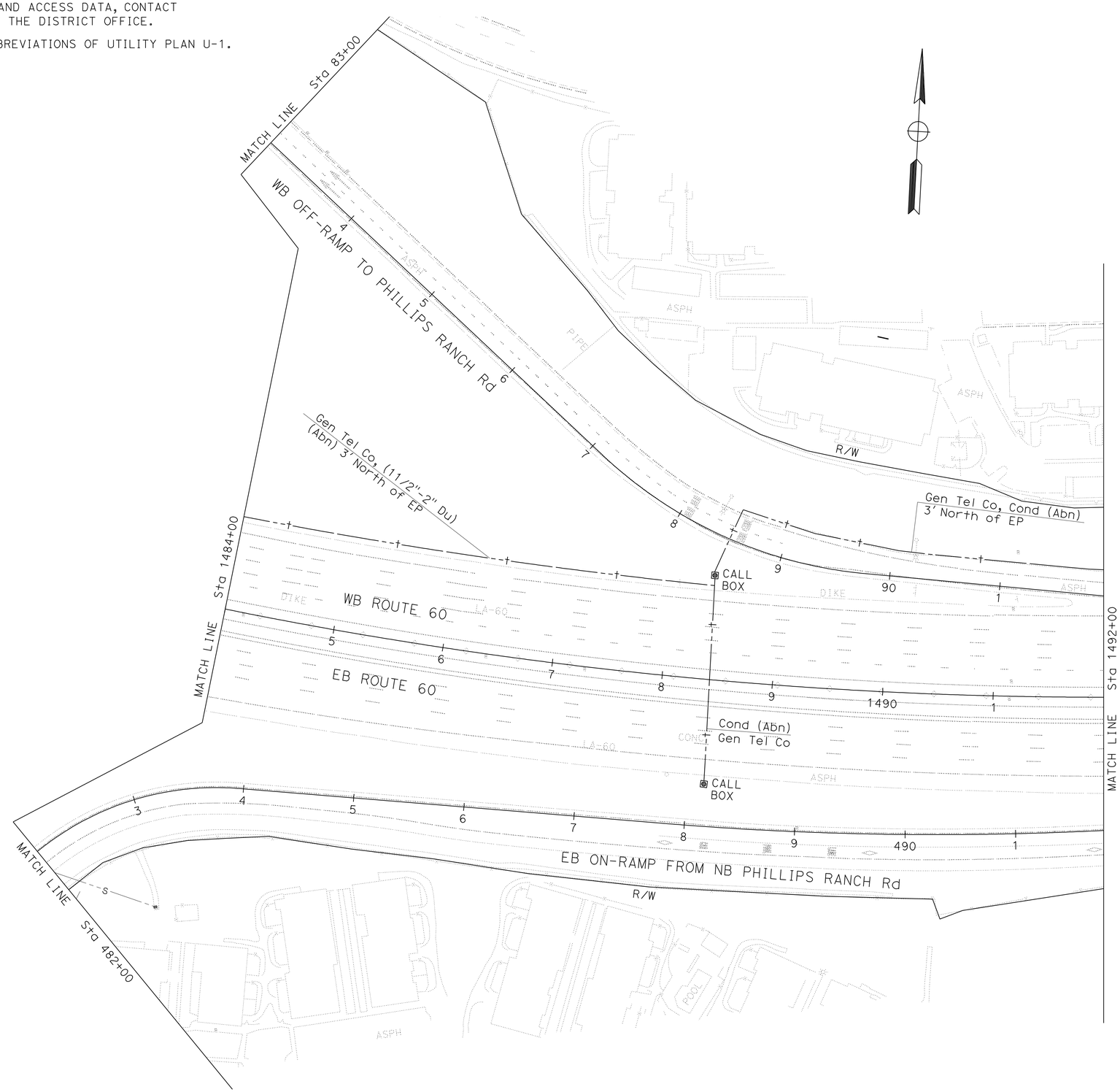
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-19

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: UGO ANAKWENZE
CHECKED BY
REVISED BY: MITRA VAHID
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 09:58

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	58	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

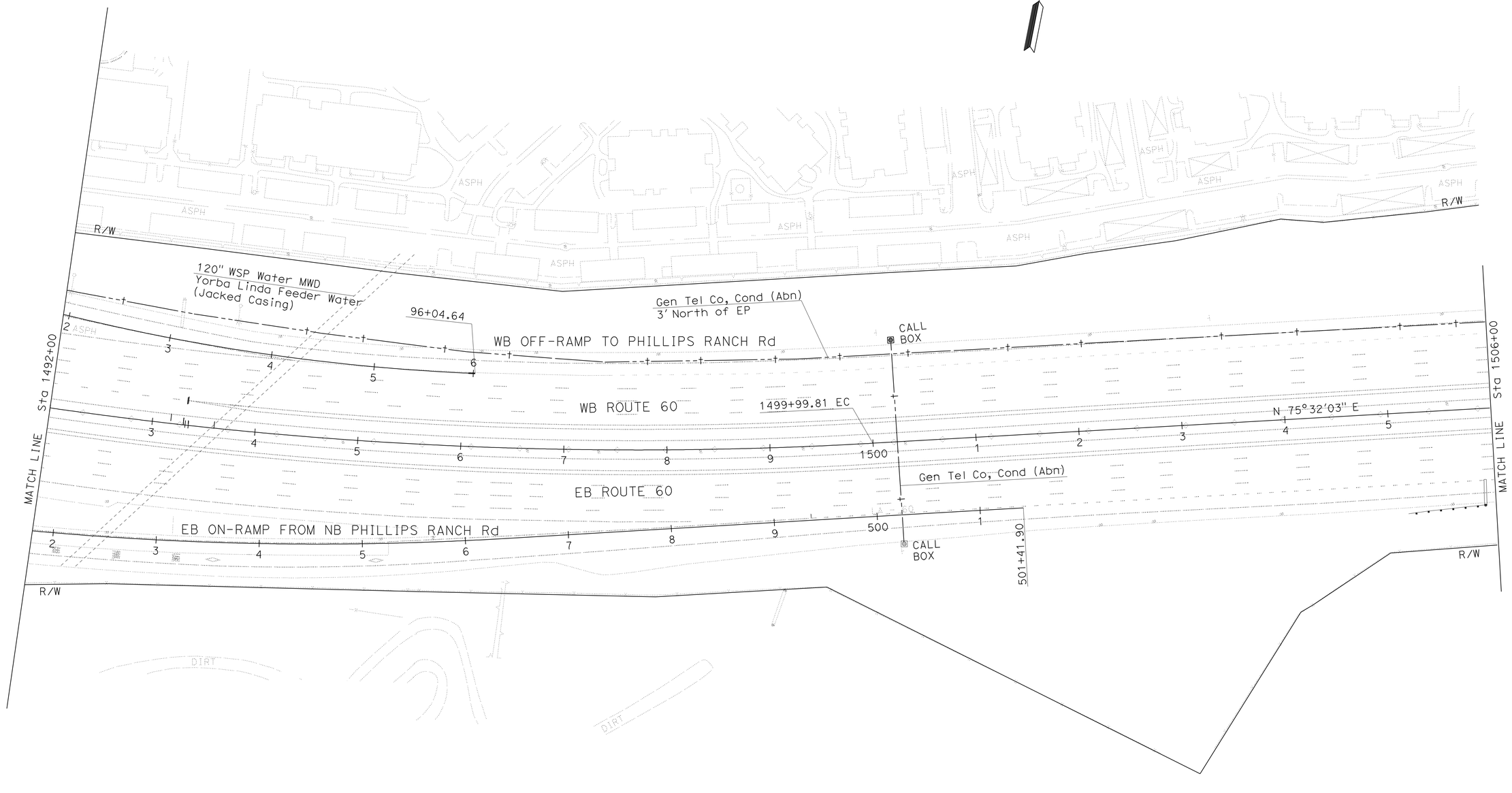
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-20

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	59	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

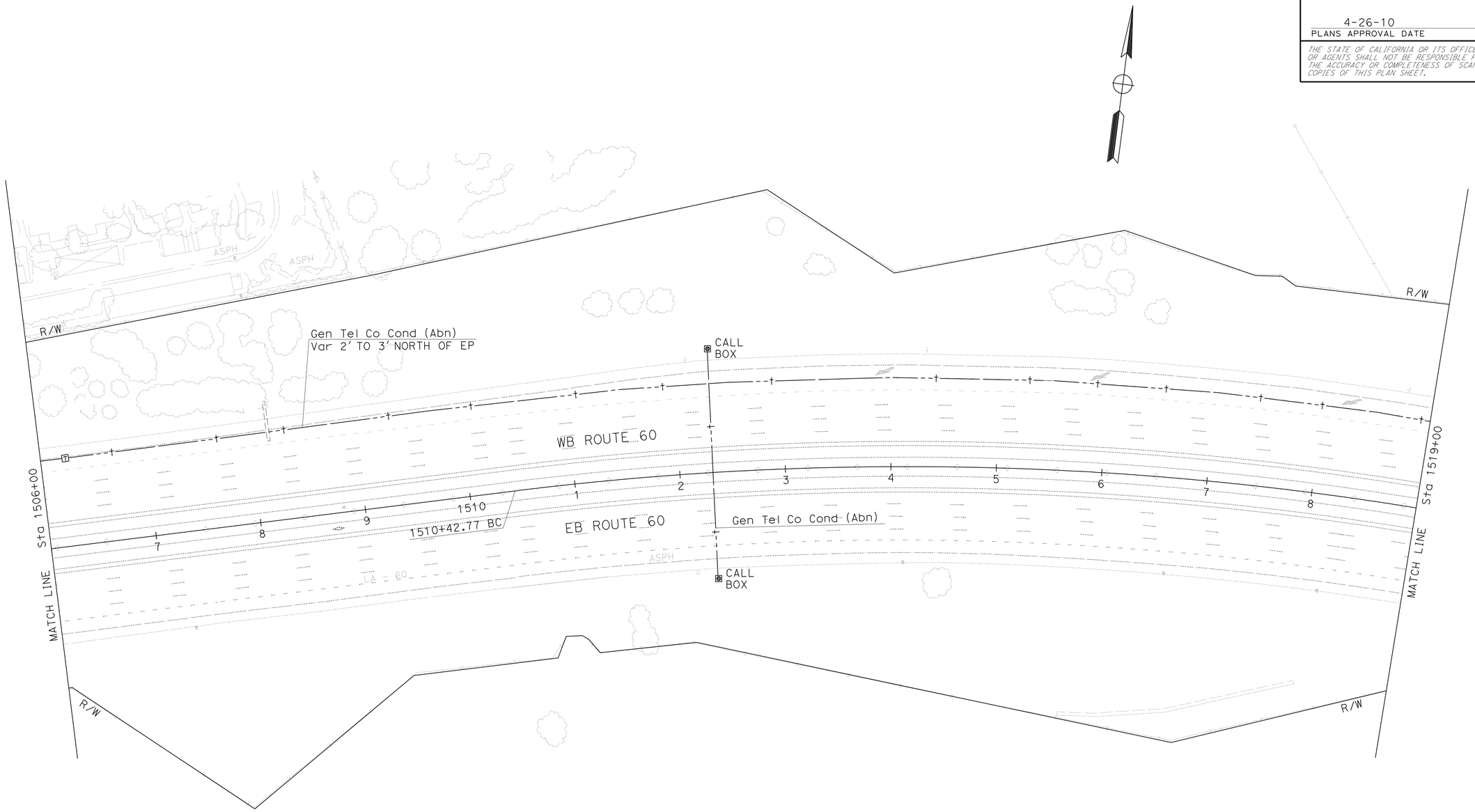
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-21

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:33

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trphils
DGN FILE => 725330ka021.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	60	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

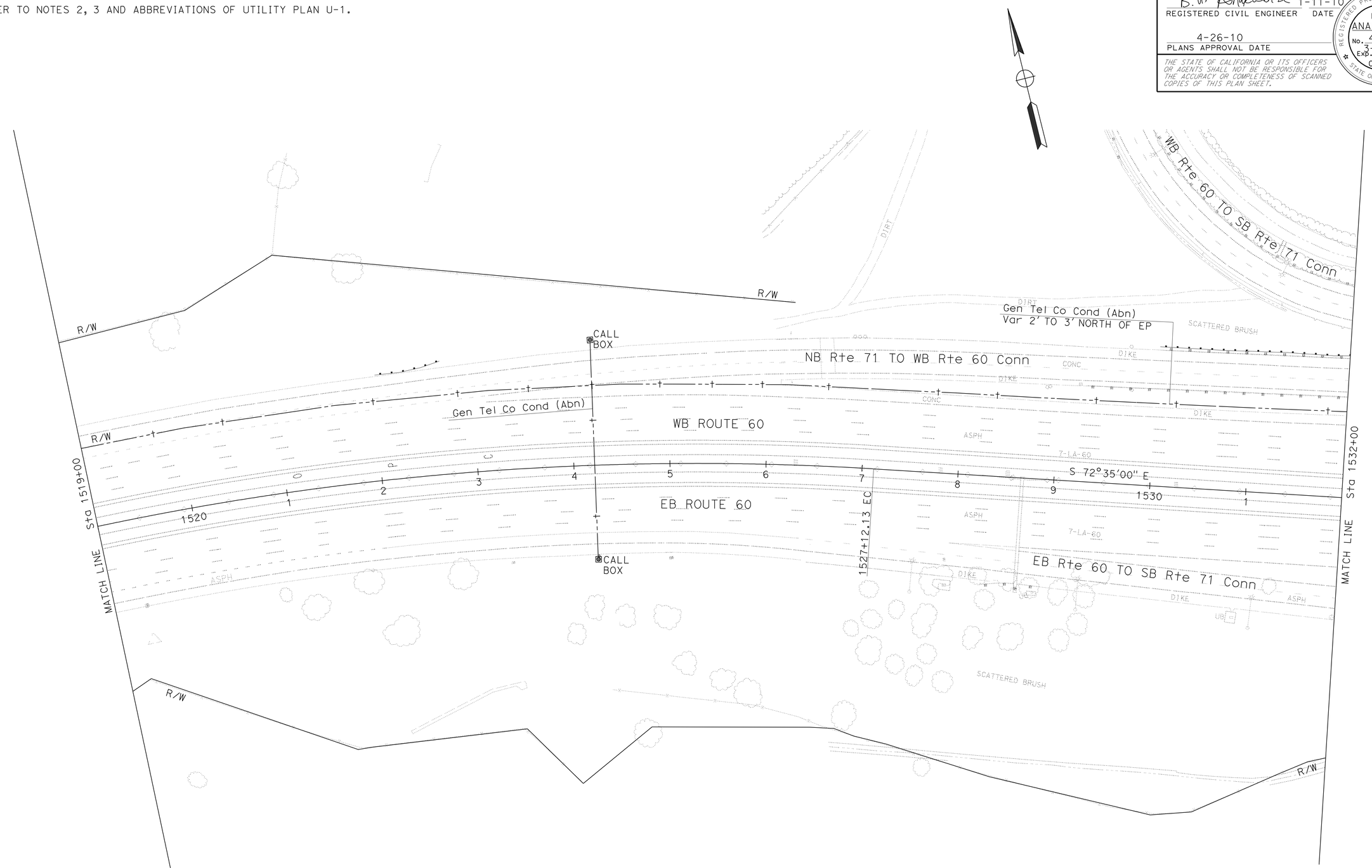
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-22

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:33

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trphils
DGN FILE => 725330ka022.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	61	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

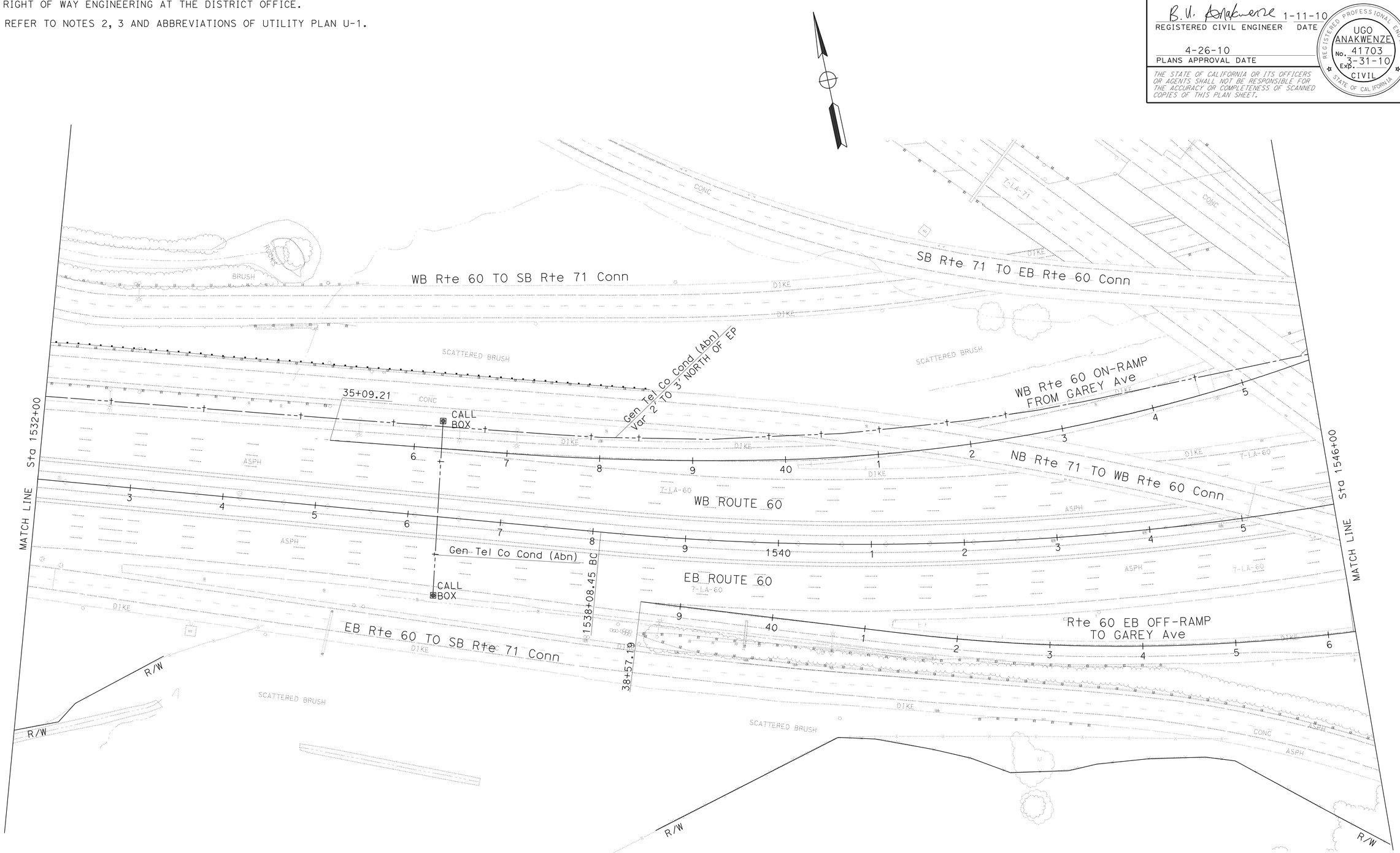
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-23

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:33

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	62	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

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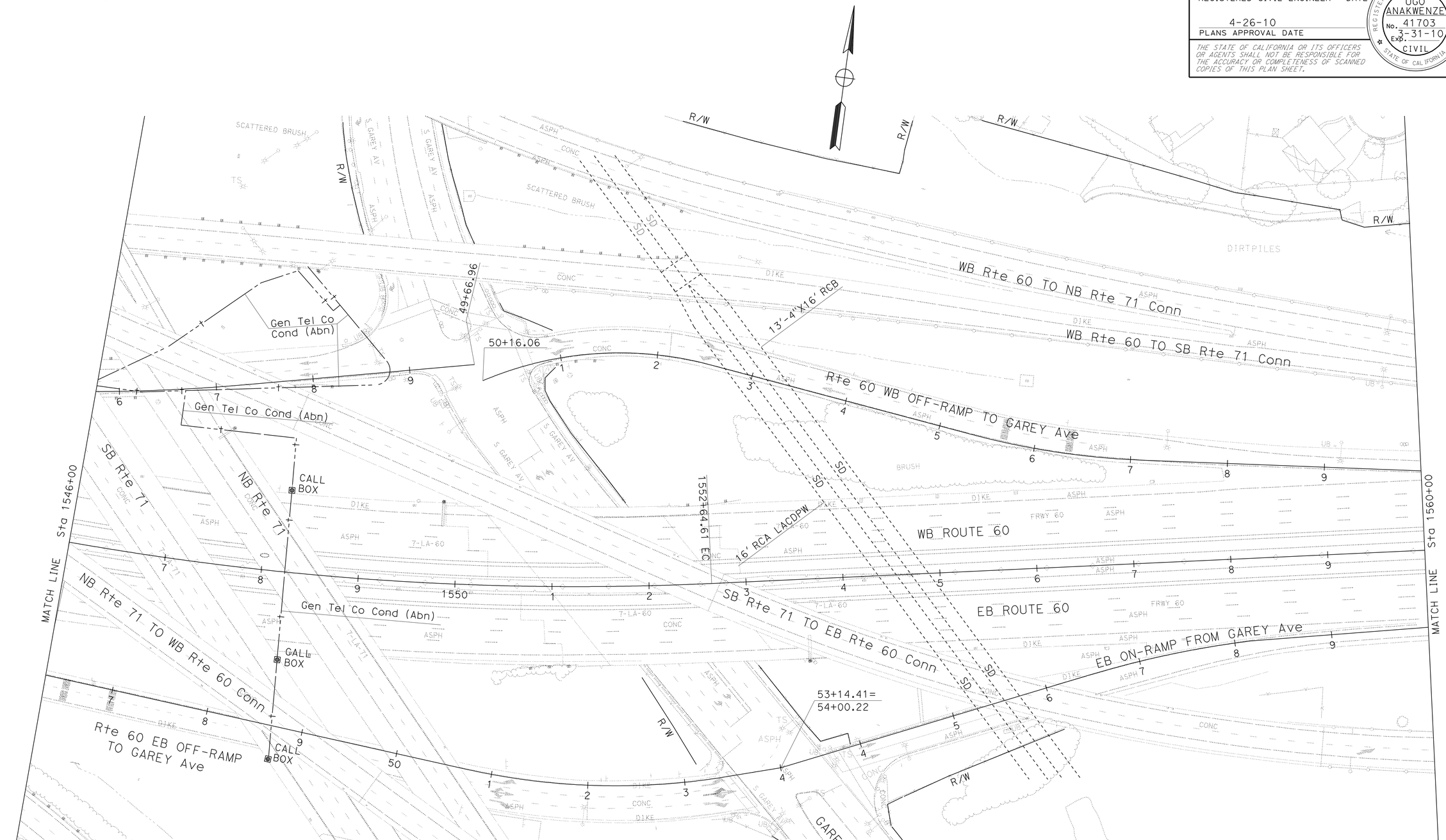
NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-24

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY / DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:34

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	63	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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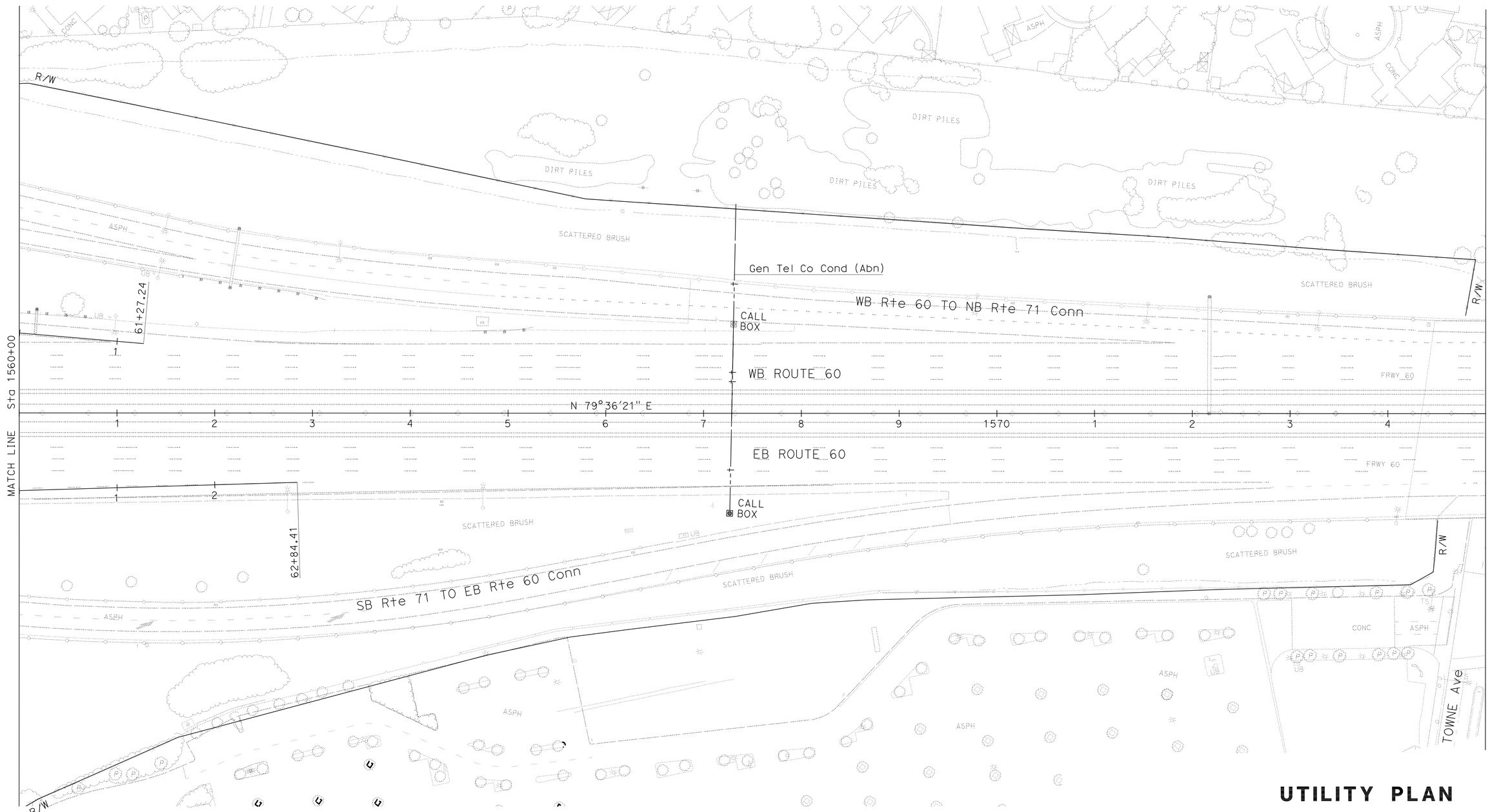
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

UTILITY PLAN

SCALE: 1" = 50'

U-25

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE
CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:32

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => s135318
DGN FILE => 725330ka025.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	64	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

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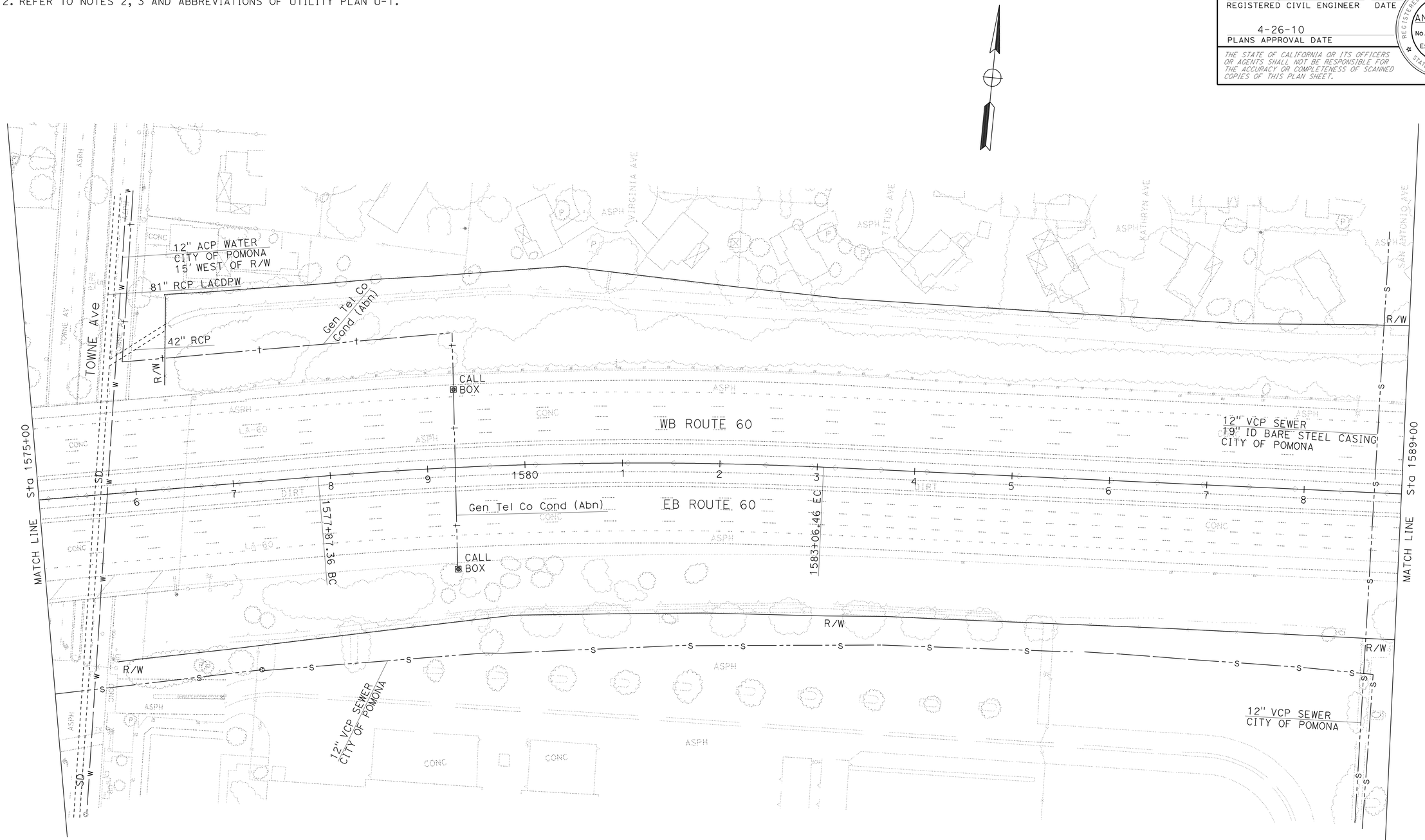
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-26

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:32

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.

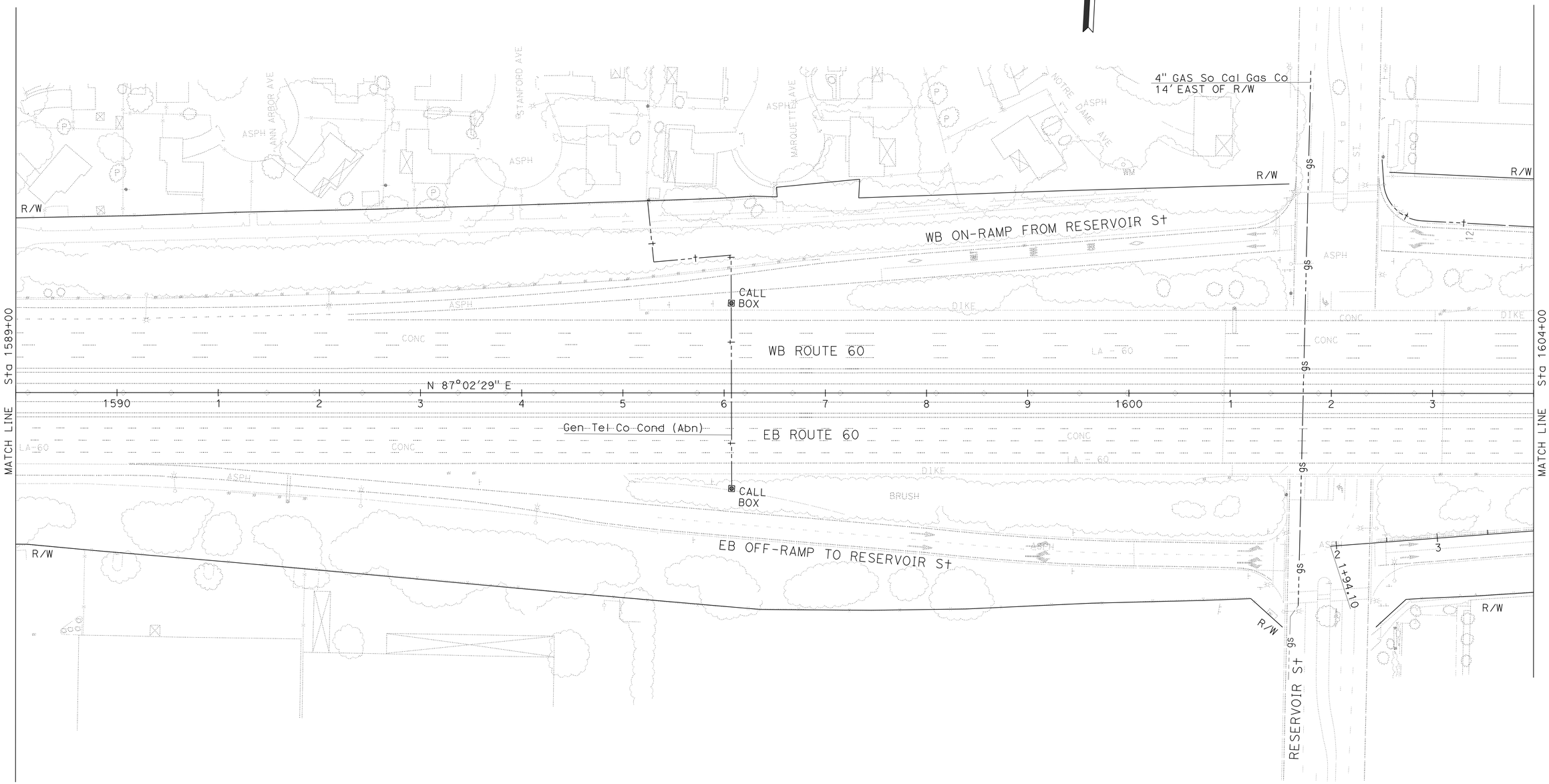
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	65	124

B. U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
UGO ANAKWENZE
No. 41703
Exp. 3-31-10
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



UTILITY PLAN

SCALE: 1" = 50'

U-27

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

MITRA VAHID | UGO ANAKWENZE

REVISED BY | DATE REVISED

CALCULATED-DESIGNED BY | CHECKED BY

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 | TIME PLOTTED => 11:32

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => s135318
DGN FILE => 725330ka027.dgn

CU 07247

EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	66	124

B.U. Anakwenze 1-11-10
REGISTERED CIVIL ENGINEER DATE

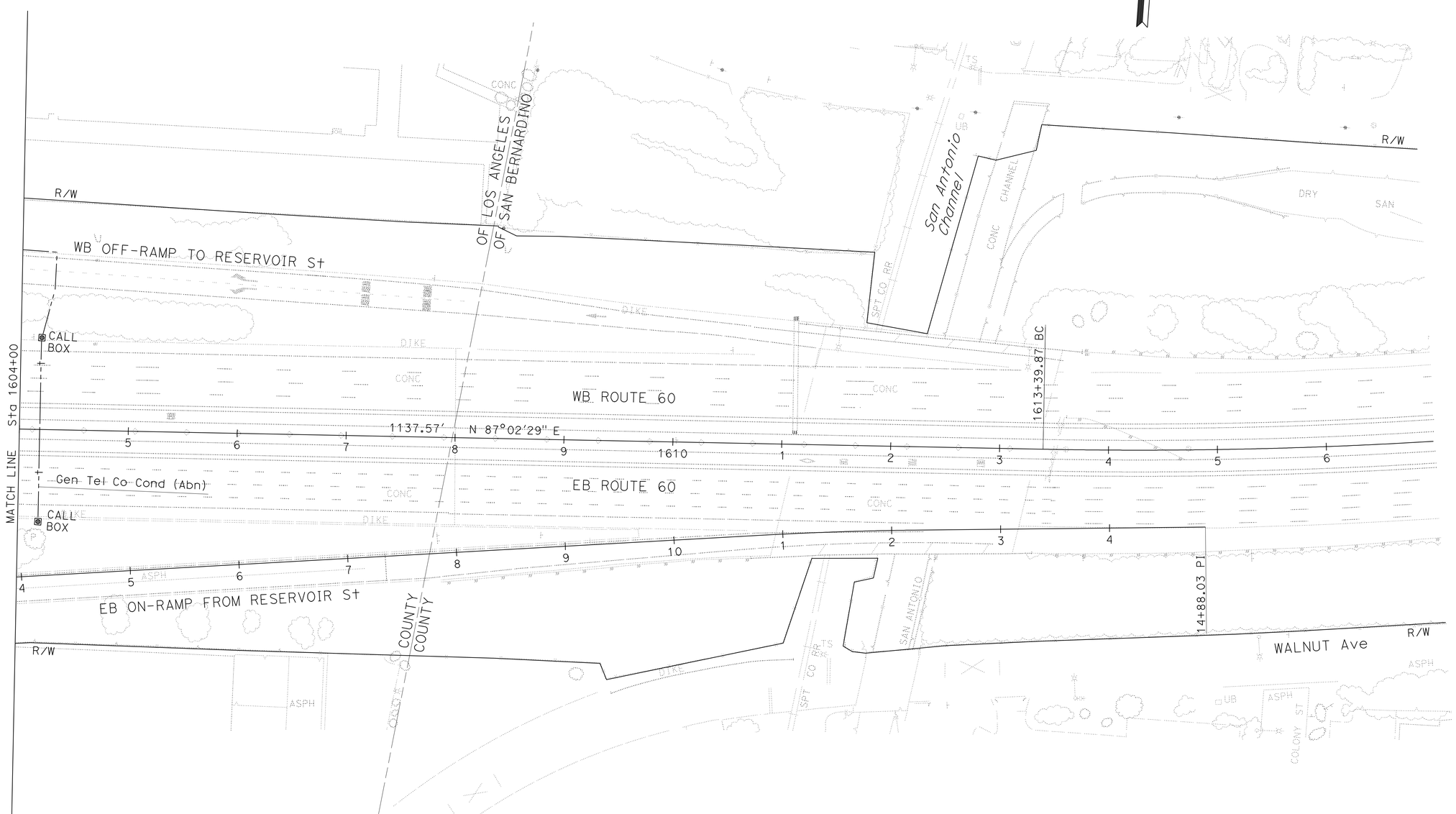
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER UGO ANAKWENZE No. 41703 Exp. 3-31-10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
2. REFER TO NOTES 2, 3 AND ABBREVIATIONS OF UTILITY PLAN U-1.



UTILITY PLAN

SCALE: 1" = 50'

U-28

THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: UGO ANAKWENZE

CALCULATED-DESIGNED BY: MITRA VAHID
CHECKED BY: UGO ANAKWENZE

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:46

BORDER LAST REVISED 4/11/2008

RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3

USERNAME => trphils
DGN FILE => 725330ka028.dgn

CU 07247

EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	67	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

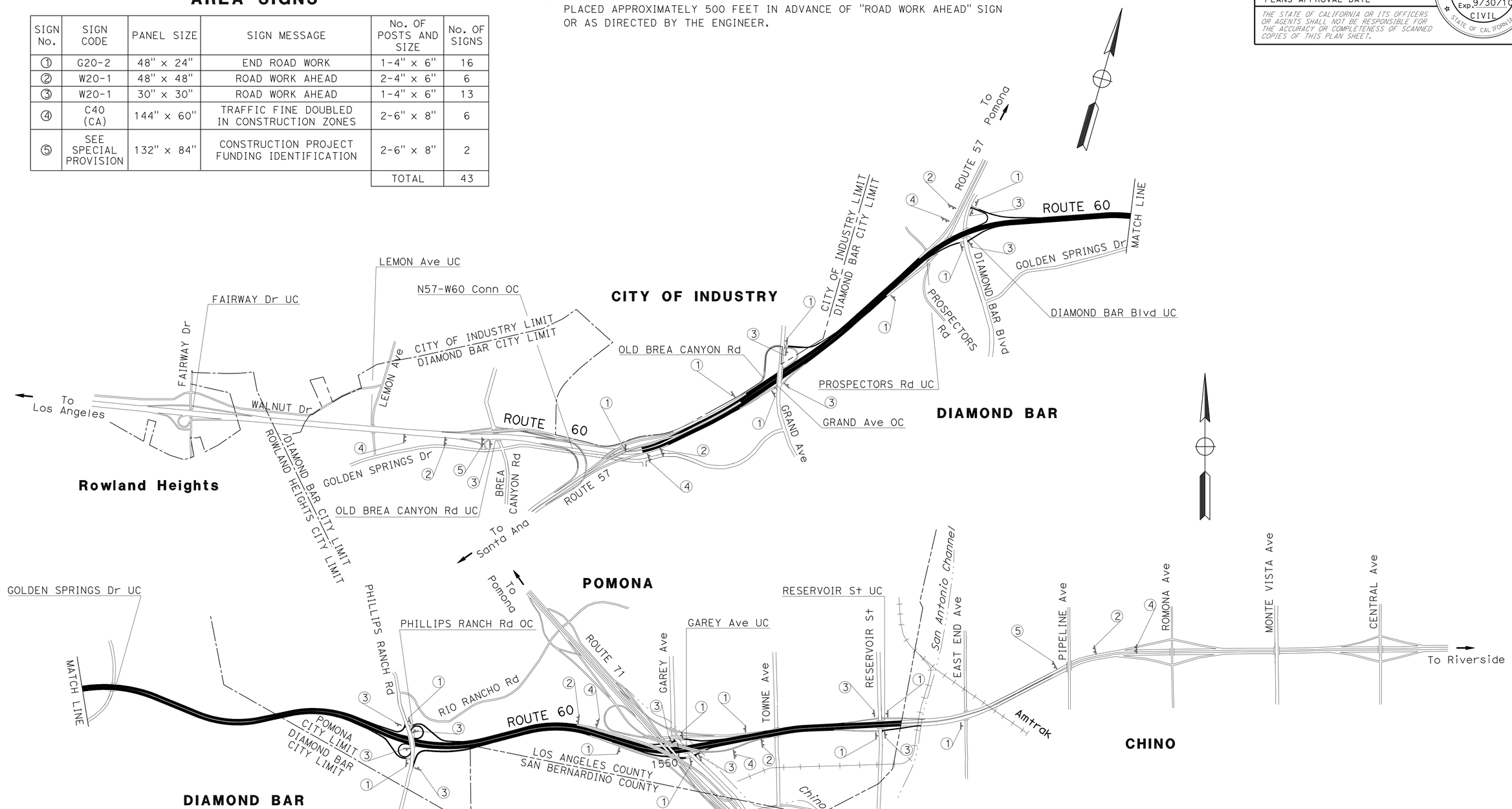
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

STATIONARY MOUNTED CONSTRUCTION AREA SIGNS

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POSTS AND SIZE	No. OF SIGNS
①	G20-2	48" x 24"	END ROAD WORK	1-4" x 6"	16
②	W20-1	48" x 48"	ROAD WORK AHEAD	2-4" x 6"	6
③	W20-1	30" x 30"	ROAD WORK AHEAD	1-4" x 6"	13
④	C40 (CA)	144" x 60"	TRAFFIC FINE DOUBLED IN CONSTRUCTION ZONES	2-6" x 8"	6
⑤	SEE SPECIAL PROVISION	132" x 84"	CONSTRUCTION PROJECT FUNDING IDENTIFICATION	2-6" x 8"	2
				TOTAL	43

NOTES:

1. LOCATIONS OF CONSTRUCTION AREA SIGNS SHOWN ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
2. "TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES" SIGN SHALL BE PLACED APPROXIMATELY 500 FEET IN ADVANCE OF "ROAD WORK AHEAD" SIGN OR AS DIRECTED BY THE ENGINEER.



THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY.

CONSTRUCTION AREA SIGNS

NO SCALE

CS-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	68	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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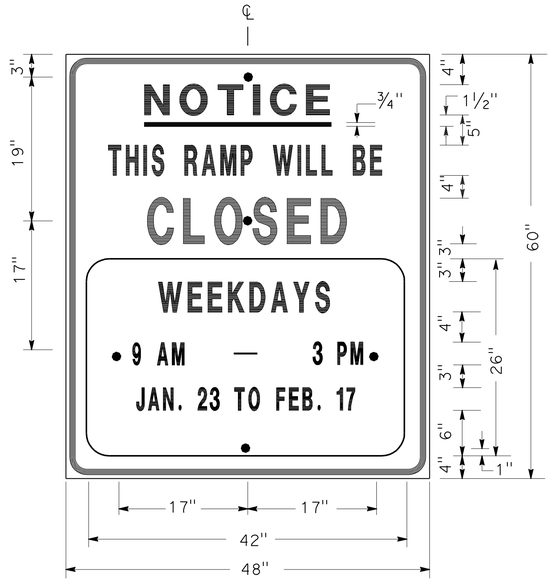
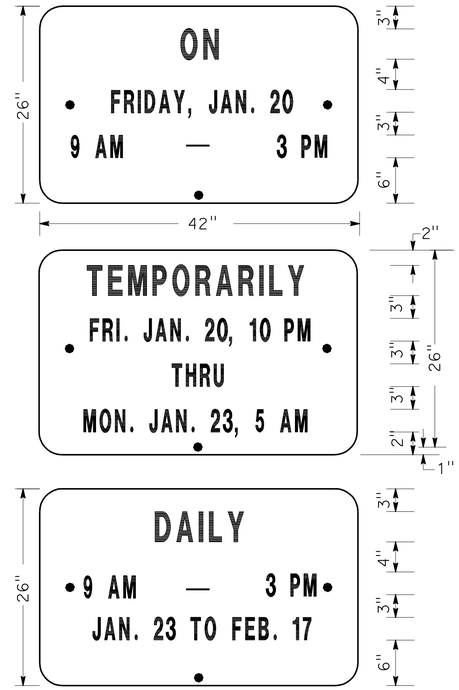


SIGN SP-1



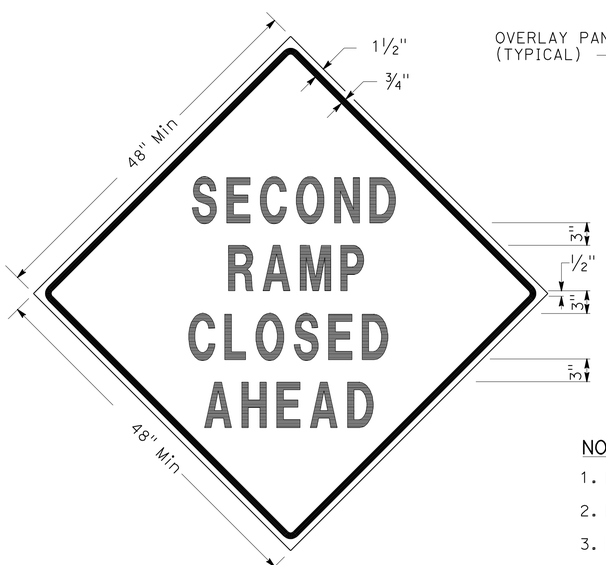
ALTERNATE OVERLAY PANELS (TYPICAL)

NOTES: (SIGN SP-1)

1. SIGNS SHALL HAVE ORANGE RETROREFLECTORIZED BACKGROUND WITH BLACK BORDER AND LETTERS.
2. BOLT HOLES SHALL BE 3/8" DIAMETER.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SIZE	BORDER WIDTH	MARGIN WIDTH	LETTER SIZE					CORNER RADIUS
			LINE 1	LINE 2*	LINE 3	LINE 4	LINE 5,6 & 7*	
48"x60"	1 1/4"	3/4"	4E	4D	6E	4D		3"
42"x26"	OVERLAY						3D	1 1/2"
* CONDENSED SPACING IF NECESSARY								

SPECIAL ADVANCE NOTICE PUBLICITY SIGN



SIGN SP-3

SIGN SP-5

NOTES: (SIGNS SP-3 & SP-5)

1. LETTERS - 6" SERIES D.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND.

SPECIAL SIGN FOR EXIT RAMP CLOSURES

SIGN SP-4

NOTES: (SIGN SP-4)

1. LETTERS - 6" SERIES C.
2. LETTERS AND BORDERS - BLACK ON RETROREFLECTORIZED WHITE BACKGROUND.
3. BASE MATERIAL SHALL BE ALUMINUM (MINIMUM 0.06").
4. SIGNS SHALL BE PLACED AT RAMP ENTRANCES IN ADDITION TO SIGNS POSTED IN ACCORDANCE WITH STANDARD PLAN T14.

SPECIAL SIGN FOR ENTRANCE RAMP CLOSURES

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS
SHEET 1 OF 2

NO SCALE **THD-1**

JC	9/08		
JC	8/08		
JC	7/08		
REVISED BY	DATE REVISED		
ALBERT K YU	JOCELYN C CHIANG		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	JOHN YANG		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 | TIME PLOTTED => 10:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	69	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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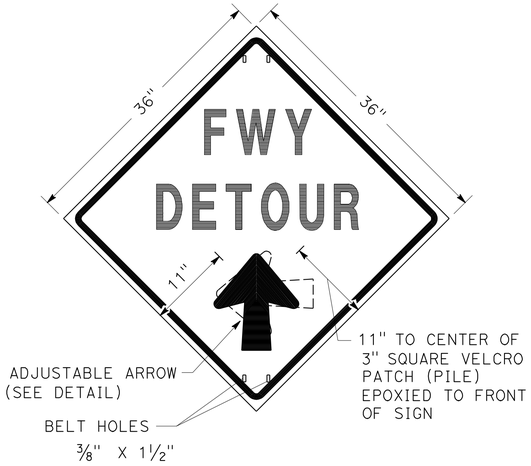
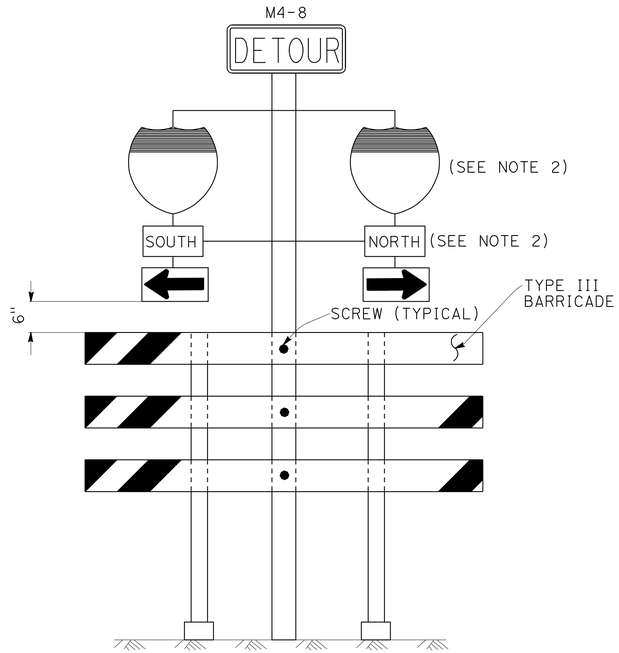
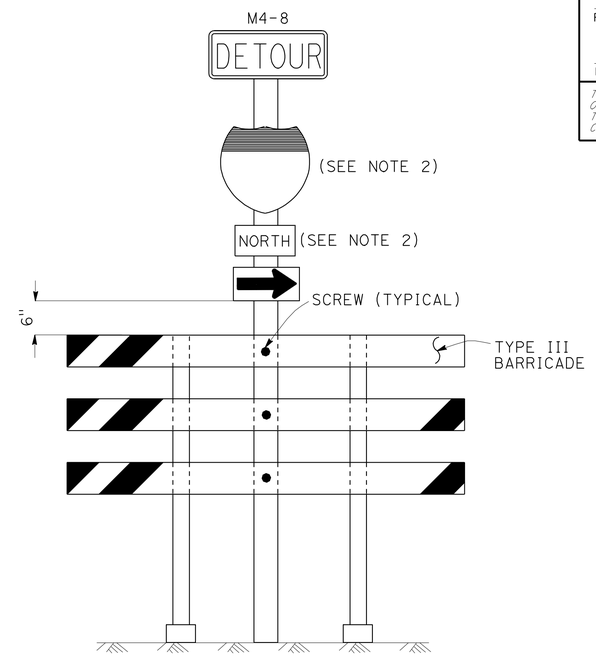


SIGN SP-2



SIGN SP-6 (SEE NOTE 1)



SIGN SP-7 (SEE NOTE 1)

NOTES: (SIGN SP-2)

1. LETTERS -6" SERIES E.
2. LETTERS, BORDER AND ARROW - BLACK ON RETROREFLECTORIZED ORANGE BACKGROUND.
3. BASE MATERIAL FOR SIGNS AND ARROWS SHALL BE ALUMINUM (MINIMUM 0.06").
4. BELTS (LUGGAGE STRAPS) SHALL BE 1" WIDE BY 48" LONG, MADE OF COTTON OR POLYPROPYLENE WEB MATERIAL.
5. SIGNS SHALL BE MOUNTED WITH BOTTOMS OF SIGNS A MINIMUM OF 6' ABOVE GROUND EXCEPT AS OTHERWISE SHOWN ON OTHER TRAFFIC HANDLING DETAILS PLANS.

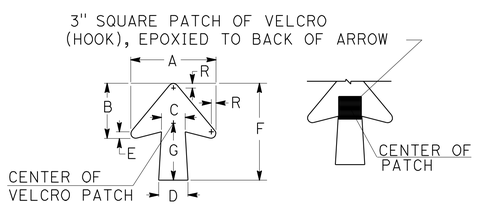
ABBREVIATION

(CA) CALIFORNIA CODE

NOTES: (SIGNS SP-6 & SP-7)

1. IN LIEU OF PLACING SIGNS ON TYPE III BARRICADES, SIGNS, INCLUDING POSTS, MAY BE PLACED INTO THE GROUND OR FASTENED ONTO ELECTROLIERS.
2. USE APPROPRIATE ROUTE SHIELD [G26-2(CA), G27-2(CA), G28-2(CA)] AND CARDINAL DIRECTION [NORTH (M3-1), SOUTH (M3-3), EAST (M3-2), WEST (M3-4)]

SPECIAL PORTABLE FREEWAY DETOUR SIGNS



DIMENSIONS							
A	B	C	D	E	F	G	R
11 1/4"	7 1/4"	3 1/8"	4"	7/8"	13"	7 1/2"	5/8"

SPECIAL PORTABLE FREEWAY DETOUR SIGN

ADJUSTABLE ARROW DETAIL

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS

SHEET 2 OF 2

NO SCALE

THD-2

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 | TIME PLOTTED => 10:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	70	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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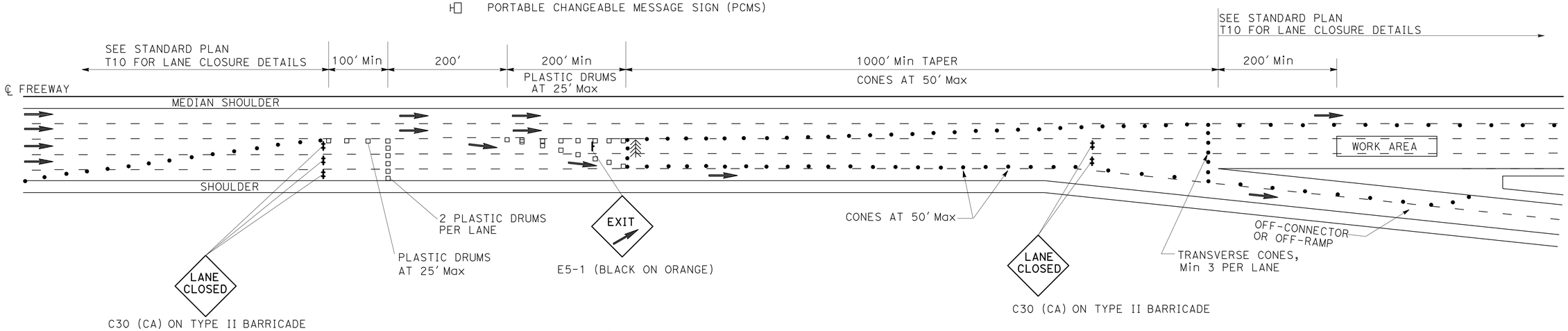
LEGEND

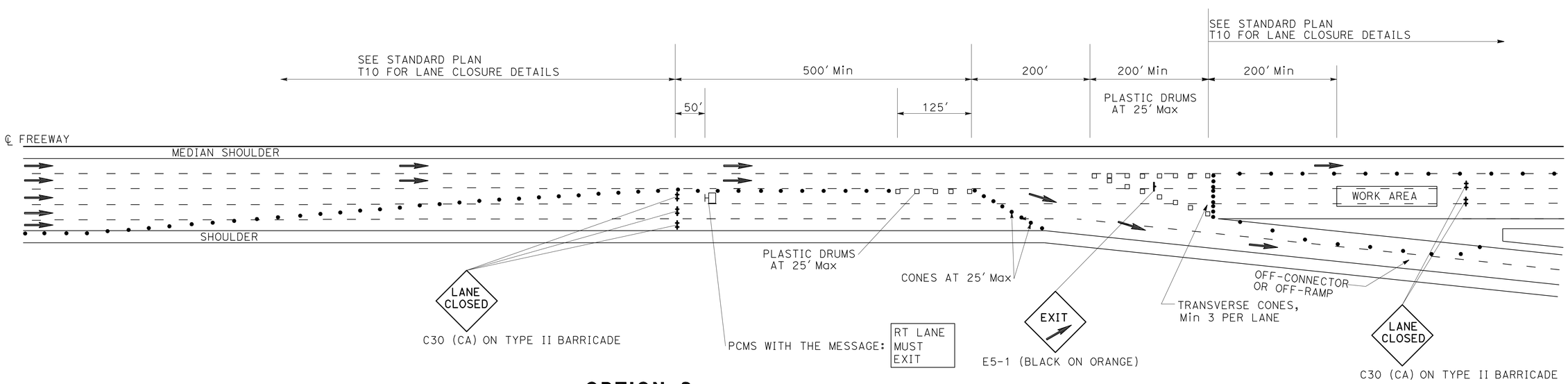
- CONE
- TRAFFIC PLASTIC DRUM
- FLASHING ARROW SIGN
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

ABBREVIATIONS

(CA) CALIFORNIA CODE



OPTION 1



OPTION 2

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR SLIP-RAMP AT OFF-CONNECTOR OR OFF-RAMP

NO SCALE

THD-3

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® DTM

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:00

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	71	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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NOTES:

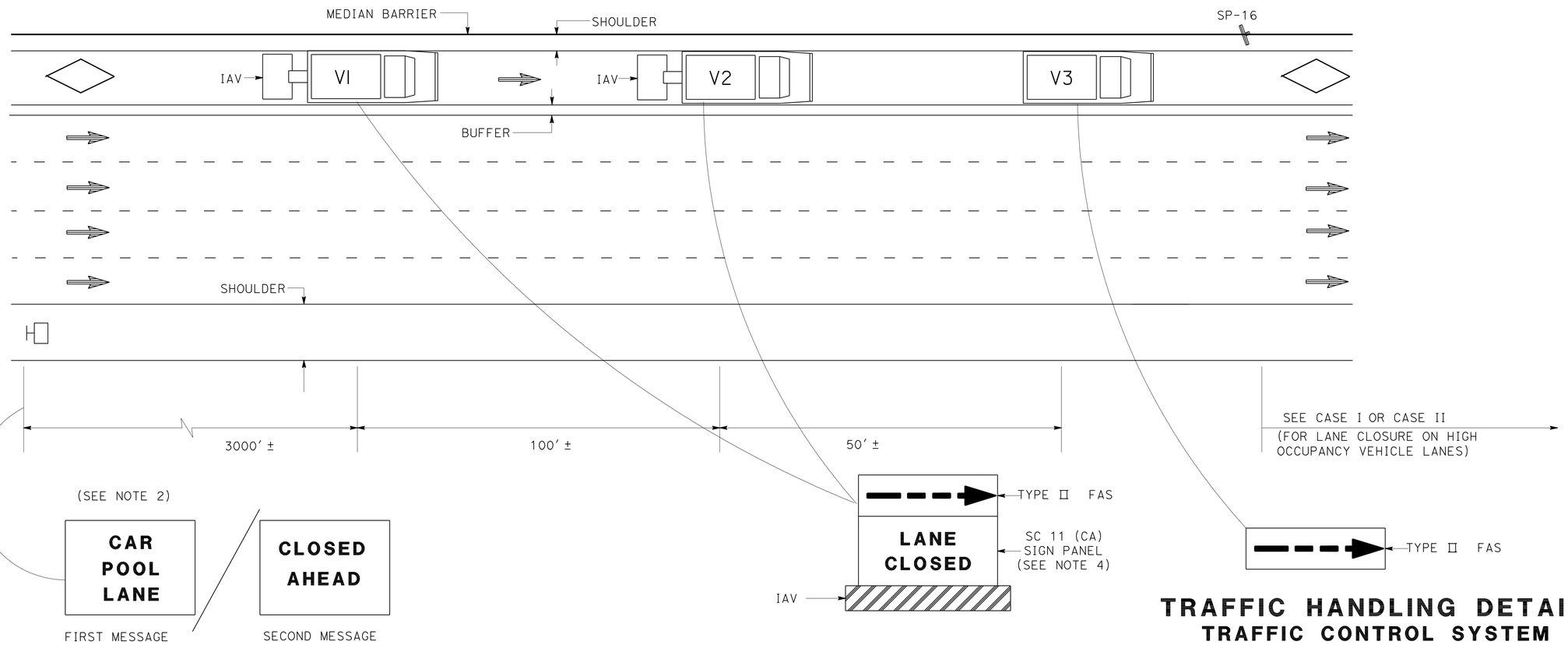
1. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
2. PCMS SHALL BE ACTIVATED PRIOR TO TRAFFIC CONTROL ACTIVITIES ON THE HOV LANE.
3. A MINIMUM SIGHT DISTANCE OF 1500′ SHALL BE PROVIDED IN ADVANCE OF PCMS.
4. VEHICLE-MOUNTED SIGN PANELS SHALL BE TYPE III OR IV RETROREFLECTORIZED SHEETING, BLACK ON WHITE OR BLACK ON ORANGE WITH 8" MINIMUM SERIES D LETTERS PER CALTRANS SIGN SPECIFICATIONS.
5. PLACE PCMS ON THE MEDIAN SHOULDER WHERE SUFFICIENT ROOM (SUCH AS CHP ENFORCEMENT AREAS) EXISTS.

LEGEND

V1, V2	SHADOW VEHICLE
V3	WORK/APPLICATION VEHICLE
	PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
	DIRECTION OF TRAVEL
	HOV LANE

ABBREVIATIONS

FAS	FLASHING ARROW SIGN
IAV	IMPACT ATTENUATOR VEHICLE
CMS	CHANGEABLE MESSAGE SIGN
(CA)	CALIFORNIA CODE
PCMS	PORTABLE CHANGEABLE MESSAGE SIGN
HOV	HIGH OCCUPANCY VEHICLE



PCMS/TRUCK MOUNTED CMS
(SEE NOTE 5)

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES WITH MEDIAN SHOULDERS LESS THAN 8 FEET

NO SCALE

THD-4

JC	9/08	ALBERT K YU	CALCULATED-DESIGNED BY
JC	7/08	JOCELYN C CHIANG	CHECKED BY
REVISED BY	DATE REVISED	JOHN YANG	FUNCTIONAL SUPERVISOR

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Caltrans DTM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	72	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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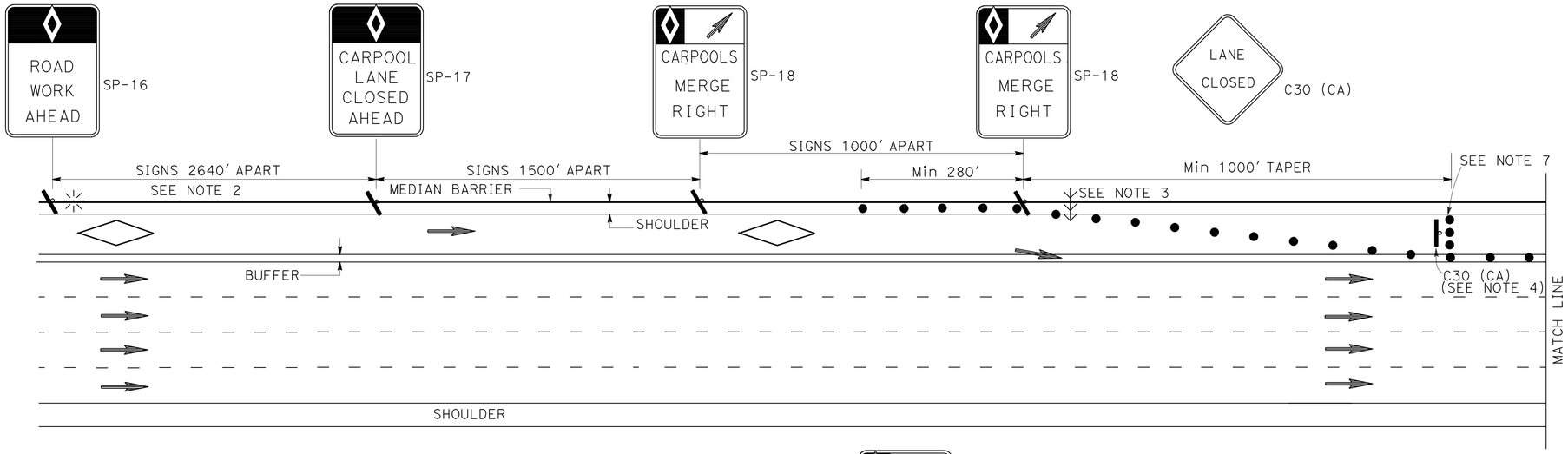

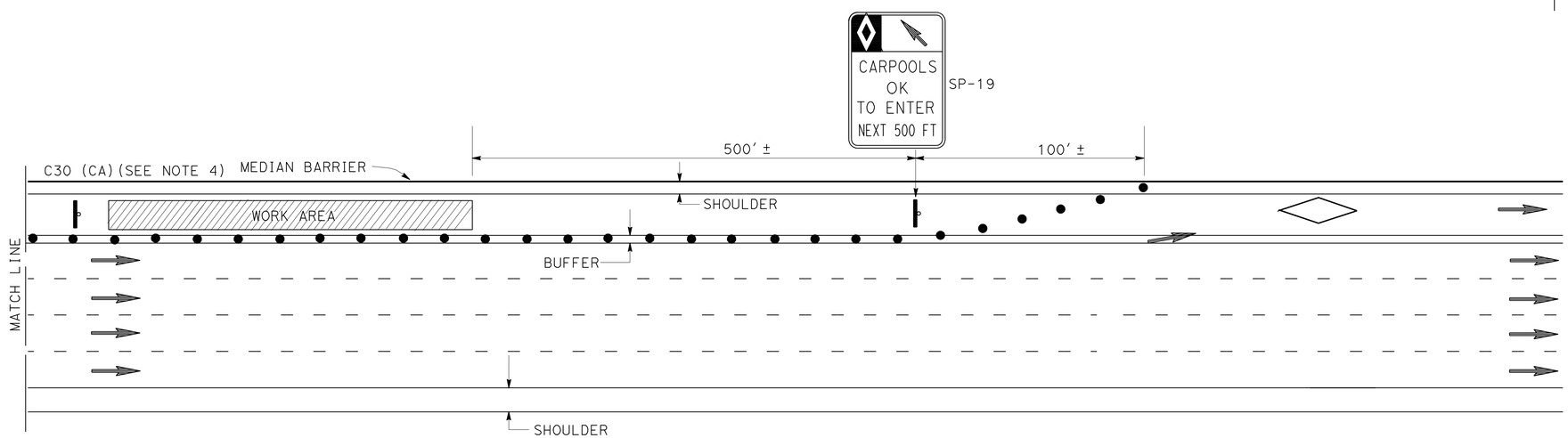

ABBREVIATIONS

(CA) CALIFORNIA CODE

HOV HIGH OCCUPANCY VEHICLE

NOTES: FOR CASE I AND CASE II

1. AT LEAST ONE PERSON SHALL BE ASSIGNED TO FULL TIME MAINTENANCE OF TRAFFIC CONTROL DEVICES ON NIGHT LANE CLOSURES OR DAY-TIME CLOSURES EXCEEDING 1 MILE LENGTH, INCLUDING TAPERS.
2. ADVANCE WARNING SIGN INSTALLATIONS SHALL BE EQUIPPED WITH FLAGS FOR DAYTIME CLOSURES. TYPE B HIGH INTENSITY FLASHING WARNING LIGHTS SHALL BE USED ON SP-16 SIGNS DURING NIGHT LANE CLOSURES. FLAGS AND WARNING LIGHTS SHALL BE ATTACHED TO SIGNS AS APPROVED BY THE ENGINEER.
3. THE FLASHING ARROW SIGN SHALL BE TYPE I.
4. PLACE C30 (CA) SIGNS EVERY 2000' THROUGHOUT THE LENGTH OF LANE CLOSURE.
5. A MINIMUM 1500' OF SIGHT DISTANCE SHALL BE PROVIDED WHERE POSSIBLE FOR VEHICLES APPROACHING THE FLASHING ARROW SIGN. LANE CLOSURES SHALL NOT BE PLACED ON CREST VERTICAL CURVES OR ON HORIZONTAL CURVES.
6. PORTABLE DELINEATORS PLACED AT ONE-HALF THE SPACING INDICATED FOR TRAFFIC CONES MAY BE USED INSTEAD OF CONES FOR DAYTIME CLOSURES.
7. A MINIMUM OF 3 CONES SHALL BE PLACED TRANSVERSELY ACROSS CLOSED LANES WHERE TAPERS END AND EVERY 2000'. TWO TYPE II BARRICADES MAY BE USED INSTEAD OF 3 CONES. THE ALIGNMENT OF CONES OR BARRICADES MAY BE SHIFTED FROM THE TRANSVERSE ALIGNMENT TO PROVIDE ACCESS TO WORK.
8. IF AN INGRESS/EGRESS AREA IS WITHIN 5250' UPSTREAM OR DOWNSTREAM OF THE WORK AREA, LANE CLOSURES SHALL BE EXTENDED TO THAT AREA AS SHOWN IN CASE II.
9. SIGNS SP-16, 17, 18, AND 19 MAY BE OVERLAID ON EXISTING CARPOOL SIGNS IN MEDIANS AS APPROVED BY THE ENGINEER.
10. SIGNS SP-16, 17, 18, AND C30 (CA) SHALL BE BLACK ON ORANGE BACKGROUND. SIGN SP-19 SHALL BE BLACK ON WHITE BACKGROUND. DIAMONDS ON SIGNS SHALL BE WHITE.
11. FOR CLOSURE OF LANE(S) ADJACENT TO HOV LANES, SEE CASE II.
12. THE MAXIMUM SPACING BETWEEN CONES SHALL BE APPROXIMATELY 50' IN TAPERS AND 100' ON TANGENTS.

LEGEND

- CONE
- FLASHING BEACON
- HOV LANE
- FLASHING ARROW SIGN
- PORTABLE SIGN
- DIRECTION OF TRAVEL

SIGN PANEL

SIZE (MIN)

SP-16 36" X 54"
SP-17 36" X 54"
SP-18 36" X 48"
SP-19 36" X 60"
C30 (CA) 30" X 30"
G20-2 48" X 24"

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES AT NON-INGRESS/EGRESS AREAS
CASE I

NO SCALE

THD-5

JC	9/08	ALBERT K YU	CALCULATED-DESIGNED BY
JC	7/08	JOCELYN C CHIANG	CHECKED BY
REVISED BY	DATE REVISED		

FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans DTM

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Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	73	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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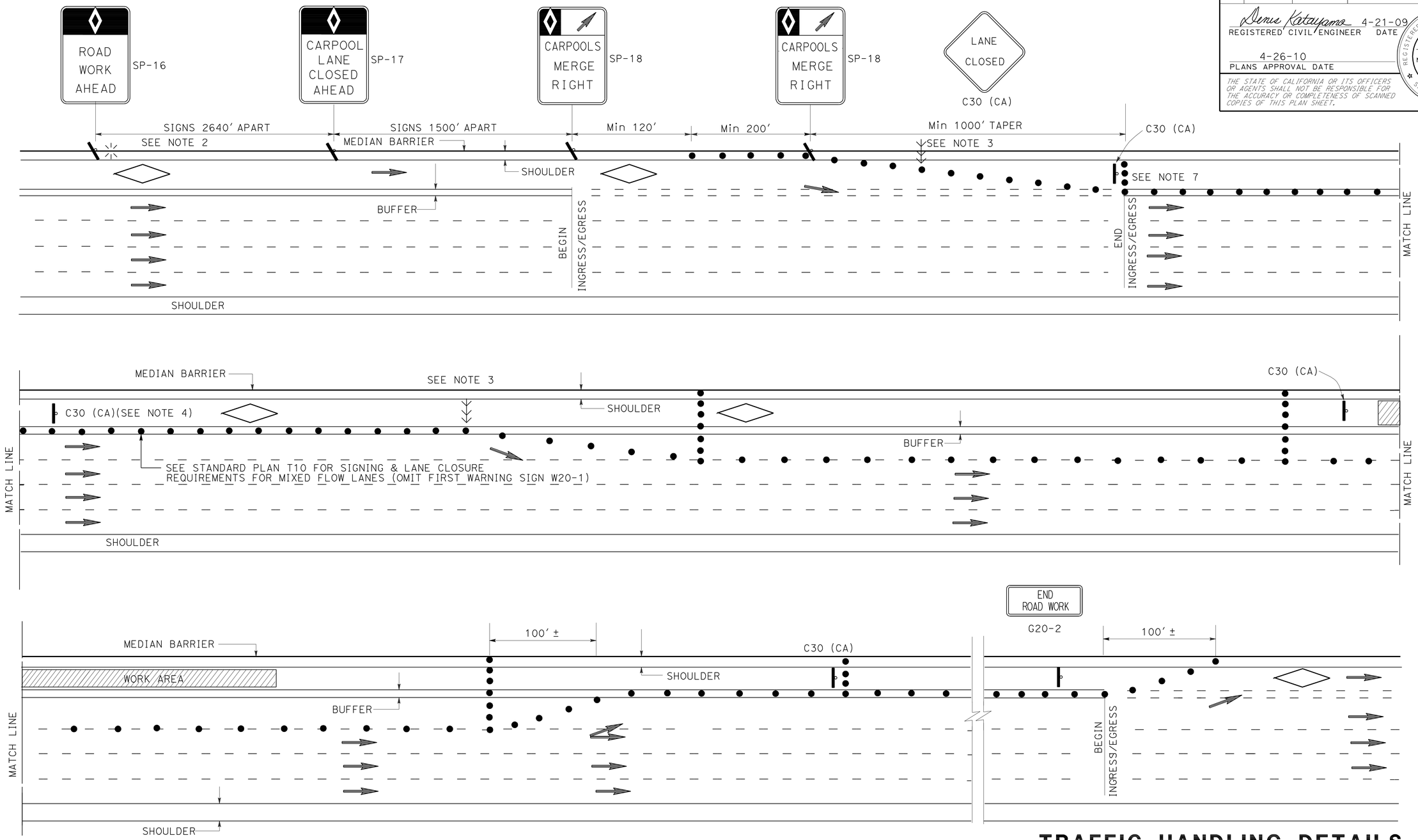

NOTES:

1. SEE CASE I FOR NOTES, LEGENDS AND ABBREVIATIONS FOR THIS SHEET.
2. CLOSURES OF ONE MIXED FLOW TRAFFIC LANE ADJACENT TO HOV LANE SHOWN. MULTIPLE MIXED FLOW LANE CLOSURES ARE SIMILAR.

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR HIGH OCCUPANCY VEHICLE LANES AND ADJACENT FREEWAY LANES BETWEEN INGRESS/EGRESS AREAS CASE II

NO SCALE

THD-6

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

ALBERT K YU
JOCELYN C CHIANG
CALCULATED-DESIGNED BY
CHECKED BY
FUNCTIONAL SUPERVISOR
JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:01

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	74	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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NOTES:

1. WORDING DISPLAYED ON PCMS WILL BE APPROVED BY THE ENGINEER.
2. EXACT LOCATIONS OF PCMS WILL BE DETERMINED BY THE ENGINEER.
3. CHANGE PCMS MESSAGE AT THE BEGINNING OF CURE PERIOD TO REFLECT NUMBER OF CLOSED LANES.

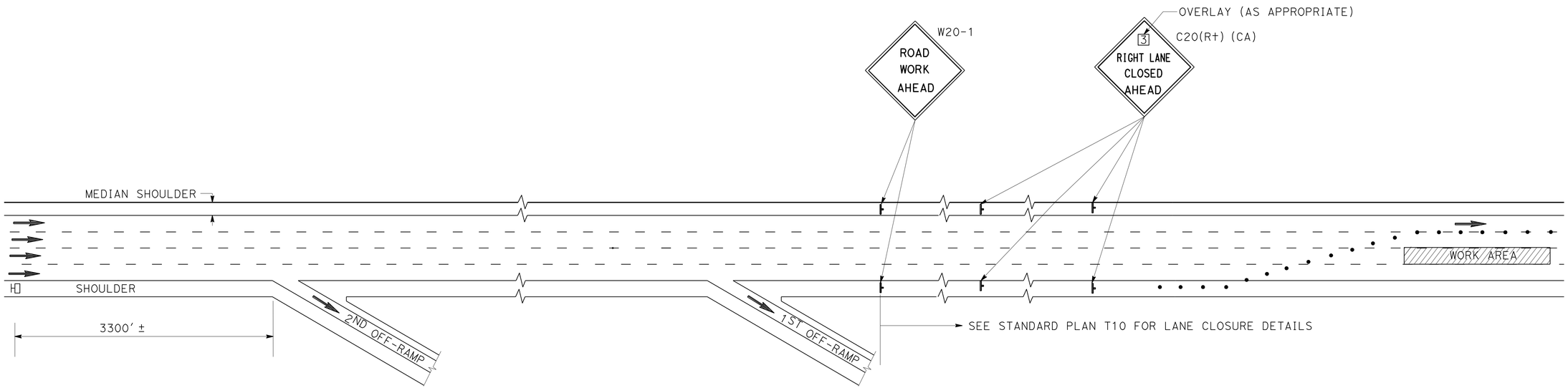
ABBREVIATIONS

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

(CA) CALIFORNIA CODE

LEGEND

- • CONE
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)
- (CA) CALIFORNIA CODE



FIRST FLASH MESSAGE	X (NO OF LANES) RIGHT/LEFT	1ST LINE (TYPICAL)
	LANES	2ND LINE (TYPICAL)
	CLOSED	3RD LINE (TYPICAL)
SECOND FLASH MESSAGE	A ST	LIMIT OF CLOSURE (TYPICAL)
	TO	
	B DR	LIMIT OF CLOSURE (TYPICAL)

WORDING FOR PORTABLE CHANGEABLE MESSAGE SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR CONCRETE PAVEMENT AND APPROACH SLAB REPLACEMENT
NO SCALE

THD-7

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	75	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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LEGEND

- IAV V1 — TRAFFIC CONTROL CREW No. 1
- IAV V2 — TRAFFIC CONTROL CREW No. 2
- CHP — CALIFORNIA HIGHWAY PATROL CAR
- ● CONES FOR INITIAL LANE CLOSURE
- △ CONES FOR SECOND STAGE LANE CLOSURE
- 1 → DIRECTION OF TRAVEL FOR INITIAL LANE CLOSURE
- 2 → DIRECTION OF TRAVEL FOR SECOND STAGE LANE CLOSURE
- FLASHING ARROW SIGN
- PORTABLE SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)

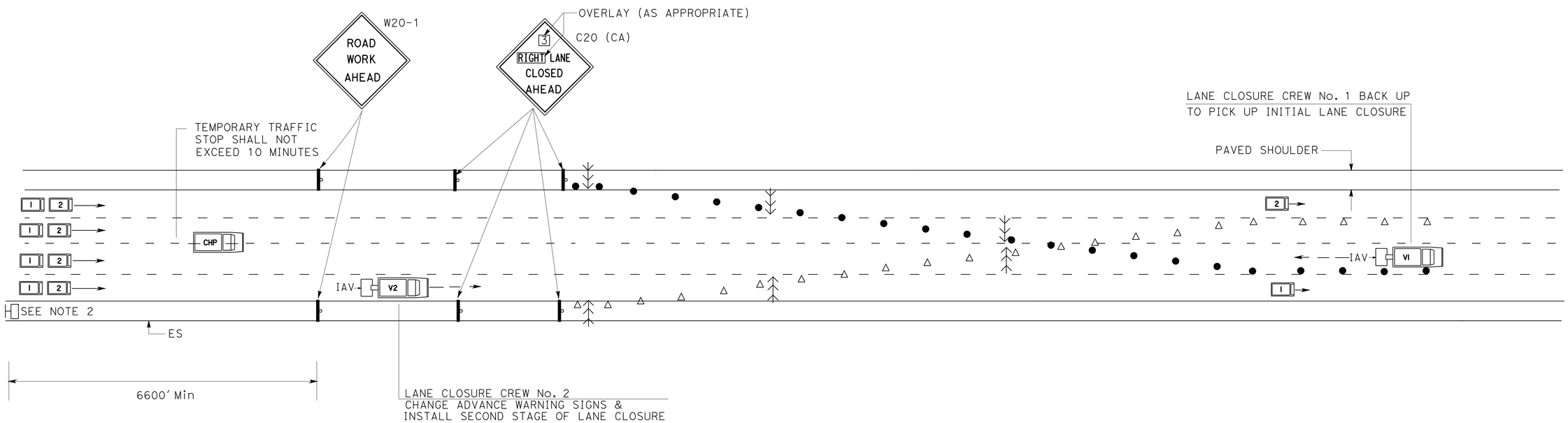
NOTES:

1. SEE STANDARD PLAN T10 FOR LANE CLOSURE DETAILS NOT SHOWN.
2. ACTIVATE PCMS ONLY DURING SECOND STAGE LANE CLOSURE INSTALLATION.
3. THE MESSAGE FOR PCMS IS: "SLOW - PREPARE/TO/STOP".

ABBREVIATIONS

(CA) CALIFORNIA CODE

PCMS PORTABLE CHANGEABLE MESSAGE SIGN



TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR "FLIP-FLOP" OPERATIONS

NO SCALE

THD-8

JC	9/08	
JC	7/08	
REVISED BY	DATE REVISED	
ALBERT K YU	JOCELYN C CHIANG	
CALCULATED-DESIGNED BY	CHECKED BY	
FUNCTIONAL SUPERVISOR	JOHN YANG	

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 | TIME PLOTTED => 10:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	76	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

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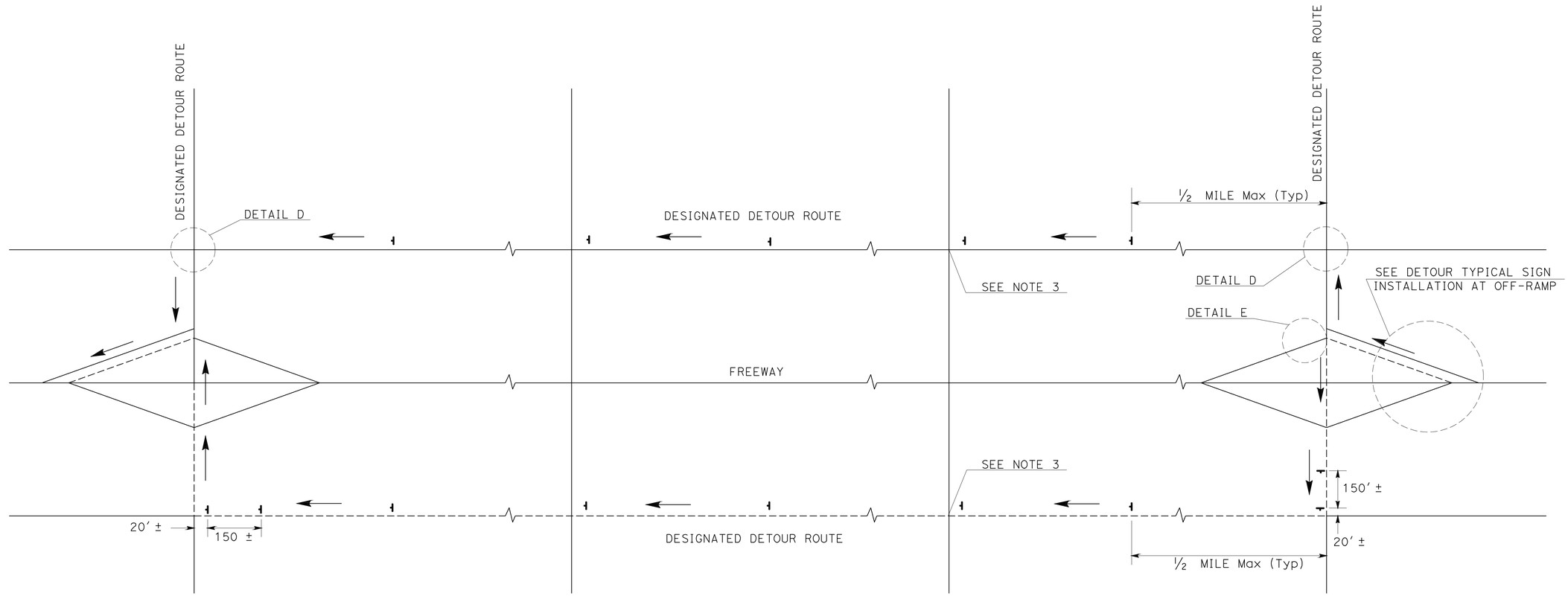


TYPICAL DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

LEGEND

- SIGN SP-2
- AND/OR DESIGNATED DETOUR ROUTE
- DIRECTION OF TRAVEL

NOTES:

1. SP-2 SIGNS SHALL NOT BE INSTALLED ON BARRICADES EXCEPT AS OTHERWISE SHOWN.
2. SIGN LOCATIONS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
3. SP-2 SIGNS SHALL BE POSTED AT SIGNALIZED INTERSECTIONS ALONG THE DESIGNATED DETOUR ROUTE OR ½ MILE MAXIMUM APART.

TRAFFIC HANDLING DETAILS

TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE

SHEET 1 OF 2

NO SCALE

THD-9

JC	JC	REVISED BY
9/08	7/08	DATE REVISED

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DTM

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:06

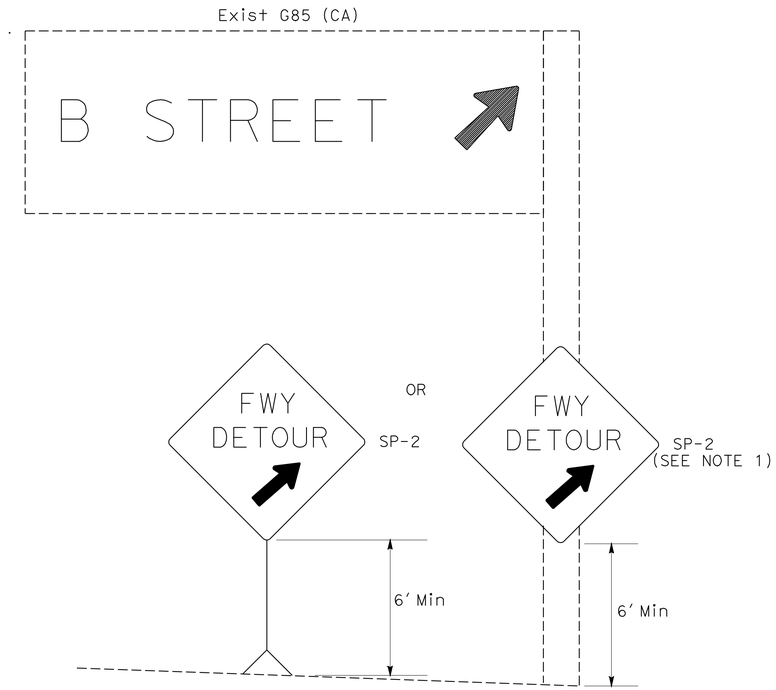
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	77	124

Denis Katayama 4-21-09
REGISTERED CIVIL ENGINEER DATE

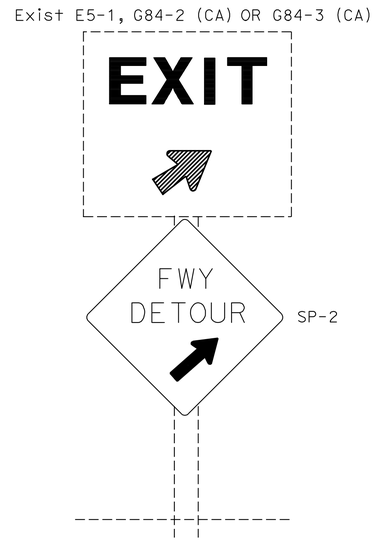
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER D.S. KATAYAMA No. C50648 Exp. 9-30-11 CIVIL STATE OF CALIFORNIA

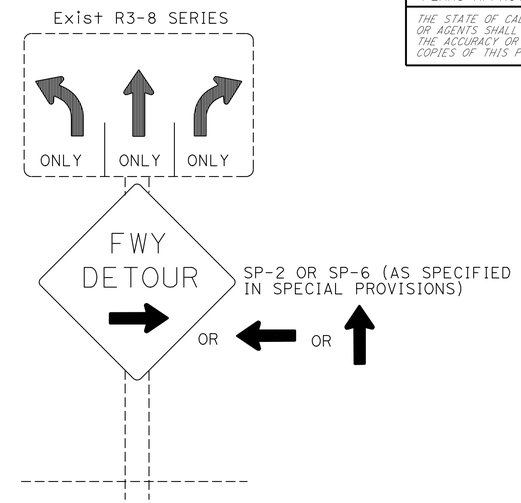
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.



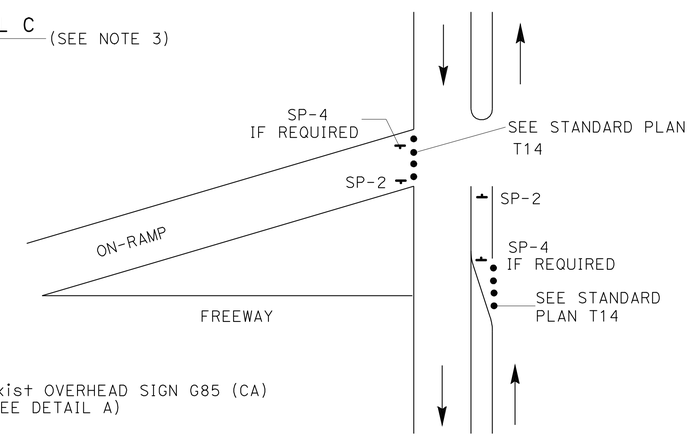
DETAIL A (SEE NOTE 2)



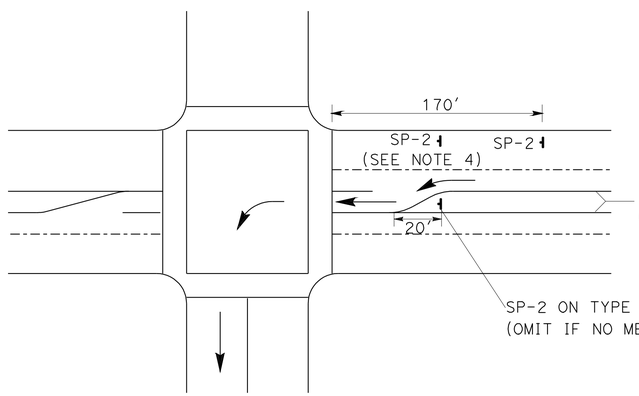
DETAIL B (SEE NOTE 2)



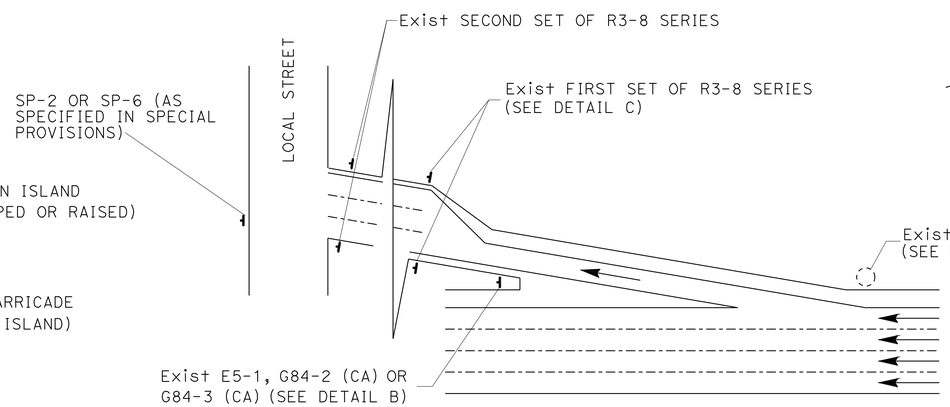
DETAIL C (SEE NOTE 3)



DETAIL E



DETAIL D



TYPICAL DETOUR SIGN INSTALLATION AT OFF-RAMP

NOTES:

1. SP-2 MAY BE STRAPPED ON EXISTING ELECTROLIER SIGNAL POSTS OR SIGN POSTS.
2. OMIT DETAIL A AND DETAIL B FOR FULL FREEWAY CLOSURES.
3. SEE TRAFFIC HANDLING DETAILS PLAN-TRAFFIC CONTROL SYSTEM FOR RAMP CLOSURES, DETOUR SIGNS AND MISCELLANEOUS DETAILS SHEET 2 OF 2 FOR SP-6.
4. OMIT IF MEDIAN ISLAND EXIST.

ABBREVIATIONS

(CA) CALIFORNIA CODE

LEGENDS

- CONE
- PORTABLE SIGN
- DIRECTION OF TRAVEL
- EXISTING OVERHEAD SIGN

TRAFFIC HANDLING DETAILS
TRAFFIC CONTROL SYSTEM FOR DETOUR SIGN INSTALLATION ALONG DESIGNATED DETOUR ROUTE
SHEET 2 OF 2

NO SCALE

THD-10

REVISED BY	DATE REVISED
JC	9/08
JC	7/08

CALCULATED-DESIGNED BY: ALBERT K YU
CHECKED BY: JOCELYN C CHIANG
FUNCTIONAL SUPERVISOR: JOHN YANG

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DTM

LAST REVISION 00-00-00 DATE PLOTTED => 29-APR-2010 TIME PLOTTED => 10:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	78	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

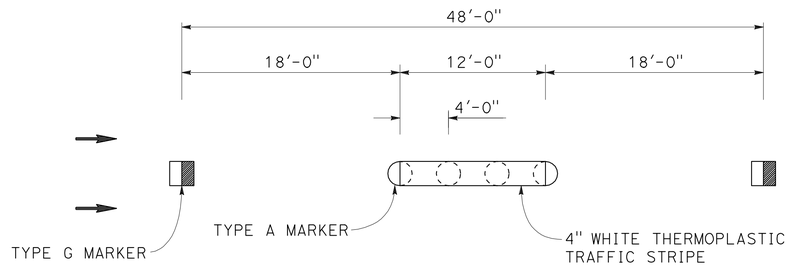
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

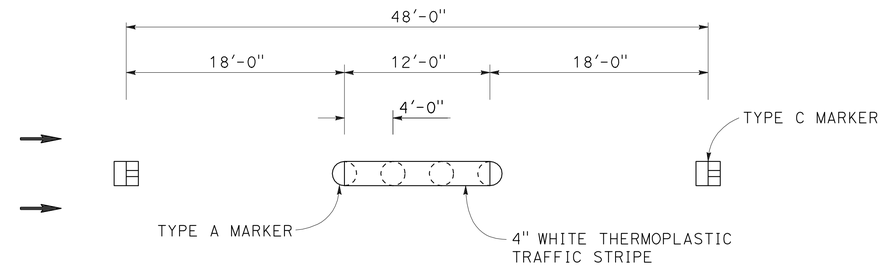
APPLY 4" WIDE WHITE THERMOPLASTIC TRAFFIC STRIPE ON TOP OF TYPE A NOR-REFLECTIVE MARKERS.

LEGEND:

→ DIRECTION OF TRAVEL



DETAIL 13 (Mod)
NO SCALE



DETAIL 14 (Mod)
NO SCALE

PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1247+37 TO 1255+00	WB	1	DETAIL 27B										763				763		
1247+37 TO 1255+00	WB	3	DETAIL 13 (Mod)	194		49				2,289						243	2,289		97
1255+00 TO 1259+75	WB	1	DETAIL 27B										475				475		
1255+00 TO 1267+56	WB	3	DETAIL 13 (Mod)	314		80				3,768						394	3,768		157
1259+75 TO 1264+56	WB	1	DETAIL 36			21						481				21	481		20
1264+56 TO 1267+56	WB	1	DETAIL 38B			27						300				27	300		13
1267+56 TO 1269+00	WB	1	DETAIL 13 (Mod)	12		4				144						16	144		6
1267+56 TO 1269+00	WB	1	DETAIL 37		9	2					144					11	144		6
1267+56 TO 1269+00	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1259+32 TO 1269+00	EB	5	DETAIL 13 (Mod)	403		102				4,840						505	4,840		202
1269+00 TO 1283+00	WB	1	DETAIL 37		93	2					1,400					95	1,400		58
1269+00 TO 1283+00	WB	4	DETAIL 13 (Mod)	467		118				5,600						585	5,600		233
1269+00 TO 1271+00	EB	5	DETAIL 13 (Mod)	83		22				1,000						105	1,000		42
1271+00 TO 1272+44	EB	5	DETAIL 14 (Mod)	60	16					720						76	720		30
1272+44 TO 1283+00	EB	5	DETAIL 13 (Mod)	440		111				5,280						551	5,280		220
1283+00 TO 1293+81	WB	4	DETAIL 13 (Mod)	360		91				4,323						451	4,323		180
1283+00 TO 1293+81	WB	1	DETAIL 37		72	2					1,081					74	1,081		45
1293+81 TO 1295+25	WB	5	DETAIL 14 (Mod)	60	16					720						76	720		30
1295+25 TO 1298+00	WB	5	DETAIL 13 (Mod)	115		30				1,377						145	1,377		57
1283+00 TO 1285+00	EB	5	DETAIL 13 (Mod)	83		22				1,000						105	1,000		42
SUBTOTAL				2,624	216	683				31,493	2,625	781	1,238			3,523	36,137		1,454

PAVEMENT DELINEATION QUANTITIES
PDQ-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:14

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	79	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1285+00 TO 1298+00	EB	4	DETAIL 13 (Mod)	433		109				5,200						542	5,200		217
1285+00 TO 1298+00	EB	1	DETAIL 37		86	2					1,300					88	1,300		54
1298+00 TO 1300+00	WB	5	DETAIL 13 (Mod)	83		22				1,000						105	1,000		42
1300+00 TO 1312+00	WB	4	DETAIL 13 (Mod)	400		101				4,800						501	4,800		200
1298+00 TO 1312+00	EB	4	DETAIL 13 (Mod)	467		118				5,600						585	5,600		233
1298+00 TO 1312+00	EB	1	DETAIL 37		93	2					1,400					95	1,400		58
1312+00 TO 1327+00	WB	4	DETAIL 13 (Mod)	500		126				6,000						626	6,000		250
1312+00 TO 1327+00	EB	3	DETAIL 13 (Mod)	375		95				4,500						470	4,500		188
1312+00 TO 1325+00	EB	1	DETAIL 13 (Mod)	108		28				1,300						136	1,300		54
1312+00 TO 1322+00	EB	1	DETAIL 37		66	2					1,000					68	1,000		42
1322+00 TO 1325+00	EB	1	DETAIL 38B			27						300				27	300		13
1325+00 TO 1327+00	EB	1	DETAIL 36			9						200				9	200		8
1327+00 TO 1334+75	WB	4	DETAIL 13 (Mod)	258		66				3,100						324	3,100		129
1334+75 TO 1337+75	WB	1	DETAIL 38B			27						300				27	300		13
1334+75 TO 1337+75	WB	3	DETAIL 13 (Mod)	75		20				900						95	900		38
1337+75 TO 1339+08	WB	1	DETAIL 36			7						133				7	133		6
1337+75 TO 1339+08	WB	3	DETAIL 13 (Mod)	33		9				400						42	400		17
1340+75 TO 1341+00	WB	1	DETAIL 27B										25				25		
1340+75 TO 1341+00	WB	3	DETAIL 13 (Mod)	6		3				75						9	75		3
1327+00 TO 1328+75	EB	3	DETAIL 13 (Mod)	44		12				525						56	525		22
1327+00 TO 1328+75	EB	1	DETAIL 36			8						175				8	175		7
1328+75 TO 1338+73	EB	3	DETAIL 13 (Mod)	250		63				2,995						313	2,995		125
1328+75 TO 1338+73	EB	1	DETAIL 27B										998				998		
1340+42 TO 1341+00	EB	3	DETAIL 13 (Mod)	15		5				174						20	174		7
1340+42 TO 1341+00	EB	1	DETAIL 36			3						58				3	58		2
1341+00 TO 1378+00	WB	1	DETAIL 27B										3,700				3,700		
1341+00 TO 1344+78	WB	1	DETAIL 13 (Mod)	32		9				378						41	378		16
1341+00 TO 1344+60	WB	2	DETAIL 13 (Mod)	60		16				720						76	720		30
1347+10 TO 1349+78	WB	1	DETAIL 27B										268				268		
1346+88 TO 1349+78	WB	3	DETAIL 13 (Mod)	72		19				868						91	868		36
1352+00 TO 1355+00	WB	3	DETAIL 13 (Mod)	75		20				900						95	900		38
1352+00 TO 1353+70	WB	1	DETAIL 8						170								170		7
1352+14 TO 1353+13	WB	1	DETAIL 27B										100				100		
1341+00 TO 1342+46	EB	3	DETAIL 13 (Mod)	37		10				439						47	439		18
1341+00 TO 1342+14	EB	1	DETAIL 36			6						114				6	114		5
1344+92 TO 1349+36	EB	1	DETAIL 27B										444				444		
1344+92 TO 1349+38	EB	1	DETAIL 13 (Mod)	37		10				446						47	446		19
1345+16 TO 1349+38	EB	1	DETAIL 13 (Mod)	35		10				422						45	422		18
1345+40 TO 1349+50	EB	1	DETAIL 13 (Mod)	34		10				410						44	410		17
1351+71 TO 1355+00	EB	1	DETAIL 27B										329				329		
1351+71 TO 1355+00	EB	2	DETAIL 13 (Mod)	55		15				659						70	659		27
1351+85 TO 1355+00	EB	1	DETAIL 13 (Mod)	26		8				315						34	315		13
SUBTOTAL				3,510	245	997			170	42,126	3,700	1,280	5,864			4,752	53,140		1,972

PAVEMENT DELINEATION QUANTITIES
PDQ-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:06

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	80	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1355+00 TO 1366+25	WB	1	DETAIL 27B										1,125				1,125		
1355+00 TO 1369+00	WB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1366+25 TO 1368+66	WB	1	DETAIL 36			11						241				11	241		10
1355+00 TO 1369+00	EB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1355+00 TO 1369+00	EB	1	DETAIL 27B										1,400				1,400		
1358+36 TO 1361+00	EB	1	DETAIL 38B			24						264				24	264		11
1361+00 TO 1369+00	EB	1	DETAIL 37		53	2					800					55	800		33
1369+00 TO 1373+26	WB	3	DETAIL 13 (Mod)	106		28				1,277						134	1,277		53
1369+00 TO 1384+00	WB	1	DETAIL 27B										1,500				1,500		
1373+26 TO 1374+70	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1374+70 TO 1384+00	WB	3	DETAIL 13 (Mod)	233		59				2,791						292	2,791		116
1369+00 TO 1381+86	EB	3	DETAIL 13 (Mod)	321		81				3,857						402	3,857		161
1369+00 TO 1384+00	EB	1	DETAIL 37		100	2					1,500					102	1,500		63
1369+00 TO 1384+00	EB	1	DETAIL 27B										1,500				1,500		
1381+86 TO 1383+30	EB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1383+30 TO 1384+00	EB	3	DETAIL 13 (Mod)	18		5				211						23	211		9
1384+00 TO 1398+00	WB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1384+00 TO 1398+00	WB	1	DETAIL 27B										1,400				1,400		
1384+00 TO 1398+00	EB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1384+00 TO 1398+00	EB	1	DETAIL 37		93	2					1,400					95	1,400		58
1384+00 TO 1398+00	EB	1	DETAIL 27B										1,400				1,400		
1398+00 TO 1400+29	WB	3	DETAIL 13 (Mod)	57		15				687						72	687		29
1398+00 TO 1400+29	WB	1	DETAIL 27B										229				229		
1402+29 TO 1402+44	WB	3	DETAIL 14 (Mod)	4	2					46						6	46		2
1402+29 TO 1411+00	WB	1	DETAIL 27B										871				871		
1402+44 TO 1411+00	WB	3	DETAIL 13 (Mod)	214		55				2,568						269	2,568		107
1398+00 TO 1402+29	EB	3	DETAIL 13 (Mod)	107		28				1,287						135	1,287		54
1398+00 TO 1400+29	EB	1	DETAIL 27B										229				229		
1398+00 TO 1400+29	EB	1	DETAIL 37		15	2					229					17	229		10
1402+29 TO 1409+58	EB	3	DETAIL 13 (Mod)	182		47				2,188						229	2,188		91
1402+29 TO 1411+00	EB	1	DETAIL 37		58	2					871					60	871		36
1402+29 TO 1411+00	EB	1	DETAIL 27B										871				871		
1409+58 TO 1411+00	EB	3	DETAIL 14 (Mod)	36	10					426						46	426		18
1411+00 TO 1425+00	WB	1	DETAIL 27B										1,400				1,400		
1411+00 TO 1425+00	WB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1411+00 TO 1411+02	EB	3	DETAIL 14 (Mod)		1					6						1	6		
1411+00 TO 1411+02	EB	1	DETAIL 37			2					2					2	2		
1411+00 TO 1411+02	EB	1	DETAIL 27B										2				2		
1411+02 TO 1425+00	EB	3	DETAIL 13 (Mod)	350		88				4,194						438	4,194		175
1411+02 TO 1425+00	EB	1	DETAIL 37		93	2					1,398					95	1,398		58
1411+02 TO 1425+00	EB	1	DETAIL 27B										1,398				1,398		
1425+00 TO 1428+95	WB	3	DETAIL 13 (Mod)	99		26				1,184						125	1,184		49
SUBTOTAL				3,549	445	926				42,586	6,200	505	13,325			4,920	62,616		2,054

PAVEMENT DELINEATION QUANTITIES

PDQ-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	81	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1425+00 TO 1438+00	WB	1	DETAIL 27B										1,300				1,300		
1428+95 TO 1430+39	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1430+39 TO 1438+00	WB	3	DETAIL 13 (Mod)	190		49				2,284						239	2,284		95
1425+00 TO 1437+27	EB	3	DETAIL 13 (Mod)	307		78				3,682						385	3,682		153
1425+00 TO 1438+00	EB	1	DETAIL 37		86	2					1,300					88	1,300		54
1425+00 TO 1438+00	EB	1	DETAIL 27B										1,300				1,300		
1437+27 TO 1438+00	EB	3	DETAIL 14 (Mod)	18	6					218						24	218		9
1438+00 TO 1452+00	WB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1438+00 TO 1452+00	WB	1	DETAIL 27B										1,400				1,400		
1438+00 TO 1438+71	EB	3	DETAIL 14 (Mod)	18	5					214						23	214		9
1438+00 TO 1450+30	EB	1	DETAIL 37		82	2					1,230					84	1,230		51
1438+00 TO 1452+00	EB	1	DETAIL 27B										1,400				1,400		
1438+71 TO 1452+00	EB	3	DETAIL 13 (Mod)	332		84				3,986						416	3,986		166
1450+30 TO 1452+00	EB	1	DETAIL 38B			16						170				16	170		7
1452+00 TO 1465+00	WB	3	DETAIL 13 (Mod)	325		82				3,900						407	3,900		163
1452+00 TO 1465+00	WB	1	DETAIL 27B										1,300				1,300		
1452+00 TO 1464+31	EB	3	DETAIL 13 (Mod)	308		78				3,693						386	3,693		154
1452+00 TO 1465+00	EB	1	DETAIL 38B			110						1,300				110	1,300		54
1452+00 TO 1465+00	EB	1	DETAIL 27B										1,300				1,300		
1464+31 TO 1465+00	EB	3	DETAIL 14 (Mod)	17	5					207						22	207		9
1465+00 TO 1479+00	WB	1	DETAIL 27B										1,400				1,400		
1465+00 TO 1479+00	WB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1467+22 TO 1469+60	WB	1	DETAIL 8						238								238		10
1476+50 TO 1479+00	WB	1	DETAIL 8						250								250		10
1465+00 TO 1465+75	EB	3	DETAIL 14 (Mod)	19	6					225						25	225		9
1465+00 TO 1468+52	EB	1	DETAIL 38B			31						352				31	352		15
1465+75 TO 1479+00	EB	3	DETAIL 13 (Mod)	331		84				3,975						415	3,975		166
1468+52 TO 1471+37	EB	1	DETAIL 36			13						285				13	285		12
1471+37 TO 1479+00	EB	1	DETAIL 27B										763				763		
1479+00 TO 1492+00	WB	1	DETAIL 27B										1,300				1,300		
1479+00 TO 1484+69	WB	3	DETAIL 13 (Mod)	142		37				1,708						179	1,708		71
1484+69 TO 1486+13	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1486+13 TO 1492+00	WB	3	DETAIL 13 (Mod)	147		38				1,760						185	1,760		73
1479+00 TO 1492+00	EB	3	DETAIL 13 (Mod)	325		82				3,900						407	3,900		163
1479+00 TO 1492+00	EB	1	DETAIL 27B										1,300				1,300		
1480+54 TO 1483+05	EB	1	DETAIL 8						251								251		10
1492+00 TO 1494+29	WB	1	DETAIL 36			11						229				11	229		10
1492+00 TO 1497+61	WB	3	DETAIL 13 (Mod)	140		36				1,683						176	1,683		70
1494+29 TO 1506+00	WB	1	DETAIL 27B										1,171				1,171		
1494+29 TO 1497+29	WB	1	DETAIL 38B			27						300				27	300		13
1497+29 TO 1506+00	WB	1	DETAIL 37		58	2					871					60	871		36
1497+61 TO 1499+05	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
SUBTOTAL				3,427	278	1,040			739	41,131	3,401	2,636	13,934			4,745	61,841		1,996

PAVEMENT DELINEATION QUANTITIES

PDQ-4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	82	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1499+05 TO 1506+00	WB	3	DETAIL 13 (Mod)	174		44				2,085						218	2,085		87
1492+00 TO 1496+41	EB	3	DETAIL 13 (Mod)	110		29				1,322						139	1,322		55
1492+00 TO 1506+00	EB	1	DETAIL 27B										1,400				1,400		
1496+41 TO 1497+85	EB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1497+85 TO 1506+00	EB	3	DETAIL 13 (Mod)	204		52				2,446						256	2,446		102
1498+22 TO 1499+40	EB	1	DETAIL 37		8	2					118					10	118		5
1499+40 TO 1506+00	EB	1	DETAIL 38B			57						660				57	660		28
1506+00 TO 1519+00	WB	1	DETAIL 27B										1,300				1,300		
1506+00 TO 1513+83	WB	1	DETAIL 37		52	2					783					54	783		33
1506+00 TO 1513+83	WB	3	DETAIL 13 (Mod)	196		50				2,348						246	2,348		98
1513+83 TO 1519+00	WB	1	DETAIL 37		34	2					517					36	517		22
1513+83 TO 1519+00	WB	4	DETAIL 13 (Mod)	172		44				2,070						216	2,070		86
1513+83 TO 1519+00	WB	3	TYPE VI ARROW					126										126	
1506+00 TO 1519+00	EB	3	DETAIL 13 (Mod)	325		82				3,900						407	3,900		163
1506+00 TO 1519+00	EB	1	DETAIL 37		86	2					1,300					88	1,300		54
1506+00 TO 1519+00	EB	1	DETAIL 27B										1,300				1,300		
1519+00 TO 1532+00	WB	1	DETAIL 27B										414				414		
1519+00 TO 1523+14	WB	1	DETAIL 37		27	2					414					29	414		17
1519+00 TO 1523+14	WB	4	DETAIL 13 (Mod)	138		36				1,657						174	1,657		69
1523+14 TO 1529+35	WB	3	DETAIL 13 (Mod)	155		40				1,862						195	1,862		78
1529+35 TO 1530+79	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1530+79 TO 1532+00	WB	3	DETAIL 13 (Mod)	30		9				363						39	363		15
1519+00 TO 1520+78	EB	3	DETAIL 13 (Mod)	44		12				533						56	533		22
1519+00 TO 1522+22	EB	1	DETAIL 37		21	2					322					23	322		13
1519+00 TO 1527+95	EB	1	DETAIL 27B										895				895		
1520+78 TO 1522+22	EB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1522+22 TO 1531+28	EB	3	DETAIL 13 (Mod)	227		58				2,718						285	2,718		113
1522+22 TO 1527+95	EB	1	DETAIL 38B			50						573				50	573		24
1527+95 TO 1532+00	EB	1	DETAIL 36			18						405				18	405		17
1531+28 TO 1532+00	EB	3	DETAIL 14 (Mod)	18	6					217						24	217		9
1532+00 TO 1537+04	WB	1	DETAIL 27B										504				504		
1532+00 TO 1546+00	WB	3	DETAIL 13 (Mod)	350		89				4,200						439	4,200		175
1534+42 TO 1537+04	WB	1	DETAIL 8						261								261		11
1537+04 TO 1546+00	WB	1	DETAIL 27B										896				896		
1532+00 TO 1532+72	EB	3	DETAIL 14 (Mod)	18	5					215						23	215		9
1532+00 TO 1533+00	EB	1	DETAIL 36			5						100				5	100		4
1532+72 TO 1546+00	EB	3	DETAIL 13 (Mod)	332		84				3,985						416	3,985		166
1533+00 TO 1538+57	EB	1	DETAIL 27B										557				557		
1538+57 TO 1541+23	EB	1	DETAIL 36			12						266				12	266		11
1541+23 TO 1546+00	EB	1	DETAIL 27B										477				477		
1546+00 TO 1549+92	WB	1	DETAIL 27B										392				392		
1546+00 TO 1550+13	WB	3	DETAIL 13 (Mod)	103		27				1,239						130	1,239		52
SUBTOTAL				2,704	269	810		126	261	32,456	3,454	2,004	8,135			3,783	46,310	126	1,592

PAVEMENT DELINEATION QUANTITIES

PDQ-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	83	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1550+13 TO 1550+33	WB	1	DETAIL 13 (Mod)	2		1				20						3	20		1
1552+57 TO 1558+41	WB	1	DETAIL 27B										584				584		
1552+57 TO 1552+76	WB	1	DETAIL 13 (Mod)	2		1				18						3	18		1
1552+76 TO 1560+00	WB	3	DETAIL 13 (Mod)	181		46				2,173						227	2,173		91
1558+41 TO 1560+00	WB	1	DETAIL 36			8						159				8	159		7
1546+00 TO 1550+93	EB	3	DETAIL 13 (Mod)	123		32				1,478						155	1,478		62
1546+00 TO 1551+11	EB	1	DETAIL 27B										511				511		
1550+93 TO 1551+11	EB	1	DETAIL 13 (Mod)	2		1				18						3	18		1
1553+08 TO 1559+80	EB	3	DETAIL 13 (Mod)	168		43				2,016						211	2,016		84
1553+08 TO 1559+90	EB	1	DETAIL 27B										682				682		
1559+80 TO 1560+00	EB	3	DETAIL 14 (Mod)	5	2					59						7	59		2
1559+90 TO 1560+00	EB	1	DETAIL 8						10								10		
1560+00 TO 1560+94	WB	1	DETAIL 36			5						94				5	94		4
1560+00 TO 1565+62	WB	3	DETAIL 13 (Mod)	140		36				1,685						176	1,685		70
1560+94 TO 1567+86	WB	1	DETAIL 27B										692				692		
1565+62 TO 1567+06	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1567+06 TO 1574+41	WB	3	DETAIL 13 (Mod)	184		47				2,207						231	2,207		92
1567+86 TO 1571+82	WB	1	DETAIL 36			17						396				17	396		16
1560+00 TO 1561+24	EB	3	DETAIL 14 (Mod)	31	9					373						40	373		16
1560+00 TO 1563+20	EB	1	DETAIL 8						320								320		13
1560+00 TO 1572+78	EB	1	DETAIL 27B										1,278				1,278		
1561+24 TO 1574+34	EB	3	DETAIL 13 (Mod)	328		83				3,931						411	3,931		164
1572+78 TO 1574+34	EB	1	DETAIL 37		10	2					156					12	156		6
1572+78 TO 1574+34	EB	1	DETAIL 27B										156				156		
1576+50 TO 1589+00	WB	1	DETAIL 27B										1,250				1,250		
1576+50 TO 1589+00	WB	1	DETAIL 37		83	2					1,250					85	1,250		52
1576+50 TO 1577+24	WB	3	DETAIL 13 (Mod)	19		6				222						25	222		9
1577+24 TO 1578+68	WB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1578+68 TO 1589+00	WB	3	DETAIL 13 (Mod)	258		65				3,096						323	3,096		129
1576+50 TO 1586+07	EB	3	DETAIL 13 (Mod)	239		61				2,871						300	2,871		120
1576+50 TO 1587+12	EB	1	DETAIL 37		71	2					1,062					73	1,062		44
1576+50 TO 1589+00	EB	1	DETAIL 27B										1,250				1,250		
1586+07 TO 1587+51	EB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1587+12 TO 1589+00	EB	1	DETAIL 38B			18						188				18	188		8
1587+51 TO 1589+00	EB	3	DETAIL 13 (Mod)	37		10				447						47	447		19
1589+00 TO 1592+47	WB	1	DETAIL 27B										347				347		
1589+00 TO 1592+47	WB	1	DETAIL 37		23	2					347					25	347		14
1589+00 TO 1600+94	WB	3	DETAIL 13 (Mod)	299		76				3,582						375	3,582		149
1592+47 TO 1600+94	WB	1	DETAIL 27B										847				847		
1603+11 TO 1604+00	WB	1	DETAIL 27B										89				89		
1603+11 TO 1603+73	WB	3	DETAIL 13 (Mod)	16		5				186						21	186		8
1603+73 TO 1604+00	WB	3	DETAIL 14 (Mod)	7	3					82						10	82		3
SUBTOTAL				2,149	231	569			330	25,760	2,815	837	7,686			2,949	37,428		1,239

PAVEMENT DELINEATION QUANTITIES
PDQ-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	84	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	DIRECTION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER				THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE						REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				NON-REFLECTIVE	RETROREFLECTIVE				WHITE					YELLOW					
				TYPE A	TYPE C	TYPE G	TYPE H		4" BROKEN (17-7)	4" BROKEN (36-12)	8" BROKEN (12-3)	8" SOLID	4" SOLID	4" SOLID					
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
1589+00 TO 1600+94	EB	3	DETAIL 13 (Mod)	299		76				3,582						375	3,582		149
1589+00 TO 1590+12	EB	1	DETAIL 38B			11						112				11	112		5
1589+00 TO 1590+26	EB	1	DETAIL 27B										126				126		
1590+12 TO 1595+00	EB	1	DETAIL 36			21						488				21	488		20
1595+00 TO 1601+94	EB	1	DETAIL 27B										694				694		
1603+11 TO 1604+00	EB	3	DETAIL 13 (Mod)	22		7				268						29	268		11
1603+11 TO 1604+00	EB	1	DETAIL 27B										89				89		
1604+00 TO 1611+14	WB	1	DETAIL 27B										714				714		
1604+00 TO 1605+17	WB	3	DETAIL 14 (Mod)	29	8					350						37	350		15
1605+17 TO 1611+14	WB	3	DETAIL 13 (Mod)	149		38				1,792						187	1,792		75
1604+00 TO 1605+55	EB	3	DETAIL 13 (Mod)	39		11				464						50	464		19
1605+55 TO 1606+99	EB	3	DETAIL 14 (Mod)	36	10					432						46	432		18
1604+00 TO 1611+14	EB	1	DETAIL 27B										714				714		
1606+99 TO 1611+14	EB	3	DETAIL 13 (Mod)	104		27				1,247						131	1,247		52
SUBTOTAL				678	18	191				8,135		600	2,337			887	11,072		364

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY SHAO-CHIANG LIU
CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED
LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07
BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trrichf
DGN FILE => 725330nc007.dgn
CU 07247
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	85	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
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REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	RAMP LOCATION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER NON-REFLECTIVE TYPE A	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (17-7)	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (36-12)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" BROKEN (12-3)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" SOLID	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" SOLID	THERMOPLASTIC TRAFFIC STRIPE YELLOW 4" SOLID	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
296+20 TO 297+40	WB OFF-RAMP TO GRAND Ave	1	DETAIL 27B										120				120		
296+20 TO 297+40		2	DETAIL 9			6			241							6	241		10
296+20 TO 297+40		1	DETAIL 27				4							241	241	4	241		
297+40 TO 298+00		1	DETAIL 27B										60				60		
297+40 TO 298+00		2	DETAIL 9			4			120							4	120		5
297+40 TO 298+00		1	DETAIL 25A				4							60	60	4	60		
297+40 TO 298+00			TYPE II ARROW					59										59	
297+40 TO 298+00			TYPE III ARROW					84										84	
298+00 TO 303+42		1	DETAIL 27B										542				542		
298+00 TO 303+42		1	DETAIL 9			12			542							12	542		23
298+00 TO 303+42		1	DETAIL 25A				24							542	542	24	542		
298+00 TO 303+42			SIGNAL AHEAD					126										126	
298+00 TO 303+42			TYPE V ARROW					66										66	
303+42 TO 305+00		1	DETAIL 27B										158				158		
303+42 TO 305+00		1	DETAIL 25A				8							158	158	8	158		
305+00 TO 308+02		1	DETAIL 27B										302				302		
305+00 TO 308+02		1	DETAIL 36			14						302				14	302		13
60+00 TO 62+42	WB OFF-RAMP TO DIAMOND BAR Blvd	1	DETAIL 27B										242				242		
60+00 TO 62+42		1	DETAIL 10	30		30										60			10
60+00 TO 62+42		1	DETAIL 25A				11							242	242	11	242		
60+00 TO 62+42			TYPE III ARROW					84										84	
62+42 TO 65+76		1	DETAIL 27B										334				334		
62+42 TO 65+76		1	DETAIL 25A				15							334	334	15	334		
62+42 TO 65+76			SIGNAL AHEAD					63										63	
65+76 TO 68+66		1	DETAIL 27B										290				290		
65+76 TO 68+66		1	DETAIL 36			13						290				13	290		12
53+92 TO 60+00		1	DETAIL 27B										608				608		
53+92 TO 60+00		1	DETAIL 10	76		76										152			25
53+92 TO 60+00		1	DETAIL 25A				26							608	608	26	608		
353+10 TO 356+00	WB ON-RAMP FROM DIAMOND BAR Blvd	1	DETAIL 27B										290				290		
353+10 TO 356+00		1	DETAIL 36			13						290				13	290		12
356+00 TO 356+68		1	DETAIL 27B										68				68		
356+00 TO 356+68		1	DETAIL 25A				4							68	68	4	68		
356+68 TO 363+53		1	DETAIL 27B										685				685		
356+68 TO 363+53		1	4" SOLID			15							685			15	685		
356+68 TO 363+53		1	DETAIL 25A				30							685	685	30	685		
356+68 TO 363+53			CAR POOL ONLY					124										124	
356+68 TO 363+53			TYPE I (24) ARROW					62										62	
356+68 TO 363+53			DIAMOND					33										33	
356+68 TO 363+53			LIMIT LINE					36										36	
SUBTOTAL				106		183	126	737	903			882	4,384	2,938	2,938	415	9,107	737	110

PAVEMENT DELINEATION QUANTITIES

PDQ-8

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY SHAO-CHIANG LIU
CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	86	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	RAMP LOCATION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER NON-REFLECTIVE TYPE A	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (17-7)	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (36-12)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" BROKEN (12-3)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" SOLID	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" SOLID	THERMOPLASTIC TRAFFIC STRIPE YELLOW 4" SOLID	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
350+69 TO 354+84	EB ON-RAMP FROM DIAMOND BAR Blvd	1	DETAIL 25A				18							415	415	18	415		
350+69 TO 354+84		1	4" SOLID			10							415			10	415		
350+69 TO 354+84		1	DETAIL 36			18						415				18	415		17
350+69 TO 354+84			LIMIT LINE					100										100	
350+69 TO 354+84			CAR POOL ONLY					124										124	
350+69 TO 354+84			TYPE I (24) ARROW					62										62	
350+69 TO 354+84			DIAMOND					22										22	
354+84 TO 356+31		1	DETAIL 25A				7							146	146	7	146		
354+84 TO 356+31		1	DETAIL 27B										146				146		
356+31 TO 358+36		1	DETAIL 38			10						205				10	205		9
356+31 TO 358+36		1	DETAIL 27B										205				205		
	EB OFF-RAMP TO DIAMOND BAR Blvd	1	DETAIL 36			3						55				3	55		2
		1	DETAIL 27B										65				65		
		1	DETAIL 25A				4							79	79	4	79		
		1	DETAIL 27B										20				20		
343+14 TO 343+70		1	DETAIL 27B										56				56		
343+70 TO 348+13		1	DETAIL 25A				19							443	443	19	443		
343+70 TO 348+13		1	DETAIL 10	55		55										110			18
343+70 TO 348+13		1	DETAIL 27B										443				443		
343+70 TO 348+13			TYPE V ARROW					66										66	
343+70 TO 348+13			SIGNAL AHEAD					126										126	
69+59 TO 71+11	WB ON-RAMP FROM PHILLIPS RANCH Rd	1	DETAIL 27B										152				152		
69+59 TO 71+11		1	DETAIL 36A			7						152				7	152		6
71+11 TO 75+17		1	DETAIL 27B										406				406		
71+11 TO 75+17		1	DETAIL 25A				18							406	406	18	406		
75+17 TO 79+00		1	DETAIL 27B										383				383		
75+17 TO 78+50		1	DETAIL 10	42		42										84			14
75+17 TO 79+00		1	DETAIL 25A				17							383	383	17	383		
75+17 TO 79+00			8" SOLID									187					187		
75+17 TO 79+00			LIMIT LINE					258										258	
75+17 TO 79+00			TYPE I (24) ARROW					31										31	
SUBTOTAL				97		145	83	789				1,014	2,291	1,872	1,872	325	5,177	789	66

PAVEMENT DELINEATION QUANTITIES

PDQ-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY SHAO-CHIANG LIU
CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	87	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	RAMP LOCATION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER NON-REFLECTIVE TYPE A	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (17-7)	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (36-12)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" BROKEN (12-3)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" SOLID	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" SOLID	THERMOPLASTIC TRAFFIC STRIPE YELLOW 4" SOLID	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
68+47 TO 71+17	EB OFF-RAMP TO PHILLIPS RANCH Rd	1	DETAIL 36A			12						271				12	271		11
68+47 TO 71+17		1	DETAIL 27B										271				271		
71+17 TO 74+25		1	DETAIL 25A				14							308	308	14	308		
71+17 TO 74+25		1	DETAIL 27B										308				308		
74+25 TO 77+00		1	DETAIL 25A				12							275	275	12	275		
74+25 TO 77+00		1	DETAIL 10	34		34										68			11
74+25 TO 77+00		1	DETAIL 27B										275				275		
74+25 TO 77+00			SIGNAL AHEAD					126										126	
77+00 TO 81+38		1	DETAIL 25A				19							438	438	19	438		
77+00 TO 81+38		1	DETAIL 10	55		55										110			18
77+00 TO 81+38		1	DETAIL 27B										438				438		
77+00 TO 81+38			TYPE V ARROW					66										66	
77+00 TO 81+38			TYPE III ARROW					84										84	
79+12 TO 81+59	WB ON-RAMP FROM PHILLIPS RANCH Rd (LOOP)	1	DETAIL 27B										247				247		
79+12 TO 81+59		1	DETAIL 36A			11						247				11	247		10
81+59 TO 81+90		1	DETAIL 27B										31				31		
81+59 TO 81+90		1	DETAIL 25A				2							31	31	2	31		
81+90 TO 82+50		1	DETAIL 27B										60				60		
81+90 TO 82+50		1	4" SOLID										60				60		
81+90 TO 82+50		1	DETAIL 25A				4							60	60	4	60		
82+50 TO 88+00		1	DETAIL 27B										550				550		
82+50 TO 88+00		1	DETAIL 9			12			550							12	550		23
82+50 TO 88+00		1	DETAIL 25A				24							550	550	24	550		
88+00 TO 88+75		1	DETAIL 27B										75				75		
88+00 TO 88+75		1	DETAIL 25A				4							75	75	4	75		
88+75 TO 90+51		1	DETAIL 38			8						176				8	176		7
88+75 TO 90+51		1	DETAIL 27B										176				176		
90+51 TO 91+64		1	DETAIL 38B			7						113				7	113		5
90+51 TO 91+64		1	DETAIL 27B										113				113		
90+51 TO 91+64		1	TYPE V ARROW					33										33	
70+68 TO 71+83	EB ON-RAMP FROM PHILLIPS RANCH Rd (LOOP)	1	DETAIL 27B										115				115		
70+68 TO 71+83		1	DETAIL 38			6						115				6	115		5
70+68 TO 71+83		1	LIMIT LINE					73										73	
70+68 TO 71+83		1	TYPE I (24) ARROW					31										31	
71+83 TO 73+50		1	DETAIL 27B										167				167		
71+83 TO 73+50		1	DETAIL 25A				8							167	167	8	167		
73+50 TO 79+30		1	DETAIL 27B										580				580		
73+50 TO 79+30		1	DETAIL 25A				25							580	580	25	580		
79+30 TO 80+49		1	DETAIL 27B										119				119		
79+30 TO 80+49		1	DETAIL 36A			6						119				6	119		5
SUBTOTAL				89		151	112	413	550			1,041	3,585	2,484	2,484	352	7,660	413	95

PAVEMENT DELINEATION QUANTITIES

PDQ-10

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	88	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	RAMP LOCATION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER NON-REFLECTIVE TYPE A	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (17-7)	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (36-12)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" BROKEN (12-3)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" SOLID	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" SOLID	THERMOPLASTIC TRAFFIC STRIPE YELLOW 4" SOLID	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
477+47 TO 481+00	EB ON-RAMP FROM PHILLIPS RANCH Rd	1	DETAIL 27B										353				353		
477+47 TO 481+00		1	DETAIL 38			16						353				16	353		15
477+47 TO 481+00		1	TYPE V ARROW					33										33	
481+00 TO 482+00		1	DETAIL 25A				5							100	100	5	100		
481+00 TO 482+00		1	DETAIL 27B										100				100		
482+00 TO 487+77		1	DETAIL 25A				25							577	577	25	577		
482+00 TO 487+77		1	DETAIL 27B										577				577		
487+77 TO 495+25		1	DETAIL 27B										749				749		
487+77 TO 495+25		1	4" SOLID			32							749			32	749		
487+77 TO 495+25		1	DETAIL 25A				32							749	749	32	749		
487+77 TO 495+25			DIAMOND					33										33	
487+77 TO 495+25			CAR POOL ONLY					124										124	
487+77 TO 495+25			LIMIT LINE					24										24	
495+25 TO 498+19		1	DETAIL 36A			13						294				13	294		12
495+25 TO 498+19		1	DETAIL 27B										294				294		
80+23 TO 85+00	WB OFF-RAMP TO PHILLIPS RANCH Rd	1	DETAIL 27B										477				477		
80+23 TO 85+00		1	DETAIL 10	60		60										120			20
80+23 TO 85+00		1	DETAIL 25A				21							477	477	21	477		
80+23 TO 85+00			TYPE III ARROW					84										84	
80+23 TO 85+00			TYPE V ARROW					66										66	
85+00 TO 88+80		1	DETAIL 27B										380				380		
85+00 TO 88+80		1	DETAIL 10	48		48										96			16
85+00 TO 88+80		1	DETAIL 25A				17							380	380	17	380		
85+00 TO 88+80			SIGNAL AHEAD					126										126	
88+80 TO 91+70		1	DETAIL 27B										290				290		
88+80 TO 91+70		1	DETAIL 25A				13							290	290	13	290		
91+70 TO 94+25		1	DETAIL 27B										255				255		
91+70 TO 94+25		1	DETAIL 36			12						255				12	255		11
53+65 TO 55+48	EB ON-RAMP FROM GARVEY Ave	1	DETAIL 25A				9							183	183	9	183		
53+65 TO 55+48		1	DETAIL 10	23		23										46			8
53+65 TO 55+48		1	DETAIL 27B										183				183		
53+65 TO 55+48			LIMIT LINE					48										48	
53+65 TO 55+48			TYPE I (24) ARROW					62										62	
55+48 TO 56+48		1	DETAIL 10	12		12										24			4
55+48 TO 56+48		1	4" SOLID			5							100			5	100		
55+48 TO 56+48		1	DETAIL 27B										100				100		
56+48 TO 57+08		1	DETAIL 25A				4							60	60	4	60		
56+48 TO 57+08		1	DETAIL 27B										60				60		
57+08 TO 59+90		1	DETAIL 36A			13						283				13	283		12
57+08 TO 59+90		1	DETAIL 27B										283				283		
SUBTOTAL				143		234	126	600				1,185	4,950	2,816	2,816	503	8,951	600	98

PAVEMENT DELINEATION QUANTITIES

PDQ- 11

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY SHAO-CHIANG LIU
CHECKED BY STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	89	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	RAMP LOCATION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER NON-REFLECTIVE TYPE A	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (17-7)	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (36-12)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" BROKEN (12-3)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" SOLID	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" SOLID	THERMOPLASTIC TRAFFIC STRIPE YELLOW 4" SOLID	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
52+11 TO 56+73	WB OFF-RAMP TO GARVEY Ave	1	DETAIL 27B										461				461		
52+11 TO 56+73		1	DETAIL 10	58		58										116			19
52+11 TO 56+73		1	DETAIL 25A				20							461	461	20	461		
52+11 TO 56+73			SIGNAL AHEAD					126										126	
52+11 TO 56+73			TYPE III ARROW					84										84	
52+11 TO 56+73			TYPE V ARROW					66										66	
56+73 TO 57+75		1	DETAIL 27B										102				102		
56+73 TO 57+75		1	DETAIL 25A				5							102	102	5	102		
57+75 TO 61+00		1	DETAIL 27B										325				325		
57+75 TO 61+00		1	DETAIL 36			15						325				15	325		14
38+57 TO 41+50	EB OFF-RAMP TO GARVEY Ave	1	DETAIL 36			13						293				13	293		12
38+57 TO 41+50		1	DETAIL 27B										293				293		
41+50 TO 46+50		1	DETAIL 25A				22							500	500	22	500		
41+50 TO 46+50		1	DETAIL 27B										500				500		
46+50 TO 50+90		1	DETAIL 25A				19							440	440	19	440		
46+50 TO 50+90		1	DETAIL 10	55		55										110			18
46+50 TO 50+90		1	DETAIL 27B										440				440		
46+50 TO 50+90			SIGNAL AHEAD					126										126	
46+50 TO 50+90			TYPE V ARROW					66										66	
50+90 TO 52+00		1	DETAIL 25A				6							110	110	6	110		
50+90 TO 52+00		1	DETAIL 10	14		14										28			5
50+90 TO 52+00		1	DETAIL 27B										110				110		
50+90 TO 52+00			TYPE III ARROW					84										84	
50+90 TO 52+00			TYPE II ARROW					59										59	
37+04 TO 40+13	WB ON-RAMP FROM GARVEY Ave	1	DETAIL 27B										309				309		
37+04 TO 40+13		1	DETAIL 36A			14						309				14	309		13
40+13 TO 44+70		1	DETAIL 27B										457				457		
40+13 TO 44+70		1	DETAIL 25A				20							457	457	20	457		
40+13 TO 44+70			LIMIT LINE					24										24	
44+70 TO 48+74		1	DETAIL 27B										404				404		
44+70 TO 48+74		1	4" SOLID			9							404			9	404		
44+70 TO 48+74		1	DETAIL 25A				18							404	404	18	404		
44+70 TO 48+74			TYPE I (24) ARROW					62										62	
44+70 TO 48+74			CAR POOL ONLY					124										124	
44+70 TO 48+74			DIAMOND					22										22	
44+70 TO 48+74			LIMIT LINE					95										95	
SUBTOTAL				127		178	110	938				927	3,805	2,474	2,474	415	7,206	938	81

REVISED BY | DATE REVISED
SHAO-CHIANG LIU | STEVE PHAM
CALCULATED-DESIGNED BY | CHECKED BY
FUNCTIONAL SUPERVISOR
MANSOOR A. KHAN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

PAVEMENT DELINEATION QUANTITIES
PDQ-12

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 | TIME PLOTTED => 10:08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	90	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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PAVEMENT DELINEATION QUANTITIES

STATION LIMITS	RAMP LOCATION	No. OF STRIPING LINES	DETAIL No. OR PAVEMENT MARKINGS WORDS	PAVEMENT MARKER NON-REFLECTIVE TYPE A	PAVEMENT MARKER RETROREFLECTIVE TYPE C	PAVEMENT MARKER RETROREFLECTIVE TYPE G	PAVEMENT MARKER RETROREFLECTIVE TYPE H	THERMOPLASTIC PAVEMENT MARKING	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (17-7)	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" BROKEN (36-12)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" BROKEN (12-3)	THERMOPLASTIC TRAFFIC STRIPE WHITE 8" SOLID	THERMOPLASTIC TRAFFIC STRIPE WHITE 4" SOLID	THERMOPLASTIC TRAFFIC STRIPE YELLOW 4" SOLID	REMOVE PAINTED TRAFFIC STRIPE	REMOVE PAVEMENT MARKER	TEMPORARY TRAFFIC STRIPE (PAINT)	TEMPORARY PAVEMENT MARKING (PAINT)	TEMPORARY PAVEMENT MARKER
				EA	EA	EA	EA	SQFT	LF	LF	LF	LF	LF	LF	LF	EA	LF	SQFT	EA
2+35 TO 7+34	EB ON-RAMP FROM RESERVOIR Ave	1	DETAIL 27B										500				500		
2+35 TO 7+34		1	DETAIL 25A				22							500	500	22	500		
2+35 TO 7+34		1	4" SOLID			11							500			11	500		
2+35 TO 7+34			LIMIT LINE					72										72	
2+35 TO 7+34			TYPE I (24) ARROW					62										62	
7+34 TO 9+82		1	DETAIL 27B										247				247		
7+34 TO 9+82		1	DETAIL 25A				11							247	247	11	247		
9+82 TO 10+84		1	DETAIL 36A			5						102				5	102		4
9+82 TO 10+84		1	DETAIL 27B										102				102		
SUBTOTAL						16	33	134				102	1,349	747	747	49	2,198	134	4
TOTAL				19,203	1,702	6,123	590	3,737	2,953	223,687	22,195	13,794	72,883	13,331	13,331	27,618	348,843	3,737	11,125
GRAND TOTAL				19,203	8,415			3,737	2,953	223,687	22,195	13,794	86,214		13,331	27,618	348,843	3,737	11,125

PAVEMENT DELINEATION QUANTITIES

PDQ-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: SHAO-CHIANG LIU
CHECKED BY: STEVE PHAM
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:08

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	91	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ROADWAY QUANTITIES

SHEET No.	LOCATION	LEAN CONCRETE BASE (RAPID SETTING)	CEMENT TREATED PERMEABLE BASE (RAPID SETTING)	ROADWAY EXCAVATION	REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	COLD PLANE ASPHALT CONCRETE PAVEMENT 0.35′	COLD PLANE ASPHALT CONCRETE PAVEMENT 0.20′	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE B)	TIE BAR	DOWEL BAR	GRIND EXISTING CONCRETE PAVEMENT	TACK COAT	GEOSYNTHETIC PAVEMENT INTERLAYER	SEAL PAVEMENT JOINT	SEAL ISOLATION JOINT	6" PERFORATIC PLASTIC PIPE UNDERDRAIN	6" PLASTIC PIPE	ADJUST INLET	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE D)	PLACE HOT MIX ASPHALT DIKE (TYPE F)	TEMPORARY DRAINAGE INLET PROTECTION
		CY	CY	CY	CY	SQYD	SQYD	TON	TON	EA	EA	SQYD	TON	SQYD	LF	LF	LF	LF	EA	LF	LF	LF	LF	EA
L-1	1247+37.19 TO 1255+00.00	298	62	62	453				5	454	859	3,730			772	763	452	20	1	524		188	274	1
L-2	1255+00.00 TO 1269+00.00	1,126			1,711					2,989	3,463	13,060			6,324	1,112								1
L-3	1269+00.00 TO 1283+00.00	1,689			2,760					4,237	5,079	17,422			7,600	2,800								1
L-4	1283+00.00 TO 1298+00.00	1,578			2,367					4,114	4,769	18,667			8,950	1,700								4
L-5	1298+00.00 TO 1312+00.00	1,389			2,083					3,687	4,167	14,556			9,050									1
L-6	1312+00.00 TO 1327+00.00	1,333			2,000					3,666	4,000	14,667			9,000									
L-7	1327+00.00 TO 1341+00.00	1,736			1,605					2,942	3,290	12,050			6,047									2
L-8	1341+00.00 TO 1349+77.50	485			727					1,341	1,502	5,213			3,257									1
L-8	1351+70.75 TO 1355+00.00					3,294		445	333				3.9	3,294										2
L-9	1355+00.00 TO 1369+00.00	198	50	50	210	15,233		2,056	1,865	146	288		18.4	15,233			538	26	1	250	250			1
L-10	1369+00.00 TO 1384+00.00					16,765		2,263	1,697				20.3	16,765										4
L-11	1384+00.00 TO 1398+00.00					15,556		2,100	1,575				18.8	15,556										4
L-12	1398+00.00 TO 1411+00.00					12,226		1,651	1,238				14.7	12,226										4
L-13	1411+00.00 TO 1425+00.00					15,556		2,100	1,575				18.8	15,556										4
L-14	1425+00.00 TO 1438+00.00					14,444		1,950	1,463				17.4	14,444										4
L-15	1438+00.00 TO 1452+00.00					15,556		2,100	1,575				18.8	15,556										4
L-16	1452+00.00 TO 1465+00.00					15,184		2,050	1,537				18.3	15,184										4
L-17	1465+00.00 TO 1476+00.00					12,505		1,688	1,266				15.2	12,505										2
L-18	1476+00.00 TO 1484+00.00					8,648		1,168	876				10.5	8,648										4
L-19	1484+00.00 TO 1492+00.00					8,380		1,131	849				10.2	8,380										6
L-20	1492+00.00 TO 1506+00.00												22.0	18,230										6
L-21	1506+00.00 TO 1519+00.00					18,230		2,461	1,846				19.0	15,741										4
L-22	1519+00.00 TO 1532+00.00					15,741		2,125	1,594				18.8	15,515										4
L-23	1532+00.00 TO 1546+00.00					15,515		2,095	1,571				13.8	11,402										3
L-24	1546+00.00 TO 1560+00.00					11,402		1,539	1,154															5
L-25	1560+00.00 TO 1574+34.41					15,473		2,089	1,567				18.7	15,473										2
L-26	1576+50.00 TO 1589+00.00					16,389		2,213	1,659				19.8	16,389										3
L-27	1589+00.00 TO 1604+00.00					14,107		1,904	1,428				17.1	14,107										3
L-28	1604+00.00 TO 1611+14.08					7,458		1,007	755				9.0	7,458										3
SUB TOTAL (SHEET 1)		9,832	112	112	13,916	267,662		36,135	27,428	23,576	27,417	99,365	323.5	267,662	51,000	6,375	990	46	2	774	250	188	274	87

SUMMARY OF QUANTITIES

Q-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
DESIGN

FUNCTIONAL SUPERVISOR: MANSOOR A. KHAN
CALCULATED-DESIGNED BY: STEVE PHAM
CHECKED BY: SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 30-APR-2010 | TIME PLOTTED => 09:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	92	124

Steve Pham 1-11-10
REGISTERED CIVIL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER STEVE PHAM No. 67183 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

ROADWAY QUANTITIES

SHEET No.	LOCATION	LEAN CONCRETE BASE (RAPID SETTING)	CEMENT TREATED PERMEABLE BASE (RAPID SETTING)	ROADWAY EXCAVATION	REPLACE CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE)	COLD PLANE ASPHALT CONCRETE PAVEMENT 0.35′	COLD PLANE ASPHALT CONCRETE PAVEMENT 0.20′	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE B)	TIE BAR	DOWEL BAR	GRIND EXISTING CONCRETE PAVEMENT	TACK COAT	GEOSYNTHETIC PAVEMENT INTERLAYER	SEAL PAVEMENT JOINT	SEAL ISOLATION JOINT	6" PERFORATIC PLASTIC PIPE UNDERDRAIN	6" PLASTIC PIPE	ADJUST INLET	REMOVE ASPHALT CONCRETE DIKE	PLACE HOT MIX ASPHALT DIKE (TYPE A)	PLACE HOT MIX ASPHALT DIKE (TYPE D)	PLACE HOT MIX ASPHALT DIKE (TYPE F)	TEMPORARY DRAINAGE INLET PROTECTION
		CY	CY	CY	CY	SQYD	SQYD	TON	TON	EA	EA	SQYD	TON	SQYD	LF	LF	LF	LF	EA	LF	LF	LF	LF	EA
L-5	WB OFF-RAMP TO GRAND Ave						2,988	403					0.5	2,988										1
L-8	EB OFF-RAMP TO DIAMOND BAR Blvd						1,523	206					0.3	1,523										1
L-8, L-9	EB ON-RAMP FROM DIAMOND BAR Blvd						1,804	244					0.3	1,804										1
L-9	WB OFF-RAMP TO DIAMOND BAR Blvd						3,184	430					0.5	3,184										1
L-8, L-9	WB ON-RAMP FROM DIAMOND BAR Blvd						2,417	326					0.4	2,417										1
L-17, L-18	EB OFF-RAMP TO PHILLIPS RANCH Rd						2,869	387					0.5	2,869										1
L-18	EB ON-RAMP FROM SB PHILLIPS RANCH Rd						1,377	186					0.2	1,377										1
L-18, L-19, L-20	EB ON-RAMP FROM NB PHILLIPS RANCH Rd						4,376	591					0.7	4,376										
L-17, L-18	WB ON-RAMP FROM SB PHILLIPS RANCH Rd						1,855	250					0.3	1,855										1
L-18, L-19, L-20	WB OFF-RAMP TO PHILLIPS RANCH Rd						3,167	428					0.5	3,167										
L-18	WB ON-RAMP FROM NB PHILLIPS RANCH Rd						3,079	416					0.5	3,079										1
L-23, L-24	EB OFF-RAMP TO GAREY Ave						2,895	391					0.5	2,895										1
L-23, L-24	WB ON-RAMP FROM GAREY Ave						2,574	347					0.4	2,574										1
L-24	EB ON-RAMP FROM GAREY Ave						1,333	180					0.2	1,333										
L-24, L-25	WB OFF-RAMP TO GAREY Ave						2,041	276					0.3	2,041										1
L-27, L-28	EB ON-RAMP FROM RESERVOIR St						2,056	278					0.3	2,056										1
SUB TOTAL (SHEET 2)							39,538	5,339					6.4	39,538										13
SUB TOTAL (SHEET 1)		9,832	112	112	13,916	267,662		36,135	27,428	23,576	27,417	99,365	323.5	267,662	51,000	6,375	990	46	2	774	250	188	274	87
GRAND TOTAL		9,832	112	112	13,916	307,200		41,474	27,428	23,576	27,417	99,365	329.9	307,200	51,000	6,375	990	46	2	774	250	188	274	100

SUMMARY OF QUANTITIES
Q-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR MANSOOR A. KHAN
CALCULATED-DESIGNED BY STEVE PHAM
CHECKED BY SHAO-CHIANG LIU
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 30-APR-2010
TIME PLOTTED => 09:46

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	93	124

REGISTERED ELECTRICAL ENGINEER 11/05/09 DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C.BURCIAGA No. E015302 Exp. 3/31/11 ELECT STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

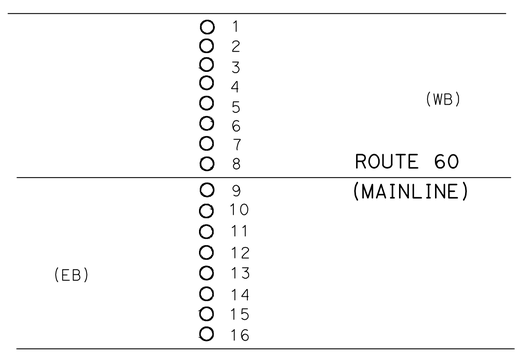
MODIFY TRAFFIC MONITORING STATION

PM	LOCATION	SEE DETAIL "A" THIS SHEET FOR TYPICAL LOCATION OF LOOP DETECTORS																No. OF STUBOUTS (REPLACE)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
24.00	WB ROUTE 60 W OF GRAND Ave	X	X	X	X	X	X	X	X									1
24.00	EB ROUTE 60 W OF GRAND Ave									X	X	X	X	X	X	X	X	1
25.45	WB ROUTE 60 W OF Jct ROUTE 57		X	X	X	X	X	X	X									1
25.45	EB ROUTE 60 W OF Jct ROUTE 57									X	X	X	X	X				1
26.57	WB ROUTE 60 E OF Jct ROUTE 57		X	X	X	X	X	X	X									1
26.57	EB ROUTE 60 E OF Jct ROUTE 57									X	X	X	X	X	X			1
26.60	WB ROUTE 60 E OF GOLDEN SPRING Dr				XX	XX	XX	XX	XX									
26.60	EB ROUTE 60 E OF GOLDEN SPRING Dr									XX	XX	XX	XX	XX	XX			
28.40	WB ROUTE 60 E OF PHILLIPS RANCH Rd				X	X	X	X	X									1
28.40	EB ROUTE 60 E OF PHILLIPS RANCH Rd									X	X	X	X	X				1
28.80	WB ROUTE 60 W OF Jct ROUTE 71				X	X	X	X	X									1
28.80	EB ROUTE 60 W OF Jct ROUTE 71									X	X	X	X	X				1
29.80	WB ROUTE 60 E OF Jct ROUTE 71				X	X	X	X	X									1
29.80	EB ROUTE 60 E OF Jct ROUTE 71									X	X	X	X	X				1

X - INSTALL TYPE E INDUCTIVE LOOP DETECTOR. ABANDON EXISTING INDUCTIVE LOOP DETECTOR AT SAME LOCATION.
XX - EXISTING AUTOMATIC VEHICLE CLASSIFICATION STATION LOOP DETECTORS TO REMAIN IN PLACE.

ABBREVIATIONS:

SCE : SOUTHERN CALIFORNIA EDISON
GTE : GENERAL TELEPHONE AND ELECTRONICS



DETAIL "A"

DETAIL FOR TYPICAL LOOP DETECTOR INSTALLATION.

GENERAL NOTES: (SHEET E-1 THROUGH E-3)

1. NEW TERMINATION SHALL BE 2". ABANDON EXISTING CONDUITS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL LOCATE EXISTING INDUCTIVE LOOP DETECTORS.
3. NEW INDUCTIVE LOOP DETECTOR SHALL BE SPLICED TO EXISTING dlc IN ADJACENT PULL BOX.
4. TAG EXISTING dlc IN ADJACENT PULL BOX AND IN CONTROLLER CABINET.

MODIFY TRAFFIC MONITORING STATION
NO SCALE

E-1

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

REVISED BY | DATE REVISED
FARIDA MAHMOOD | CECILIO BURCIAGA
CALCULATED-DESIGNED BY | CHECKED BY
SUPERVISING ENGINEER: YI TSAU
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2010 TIME PLOTTED => 11:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	94	124

11/05/09
REGISTERED ELECTRICAL ENGINEER DATE

4-26-10
PLANS APPROVAL DATE

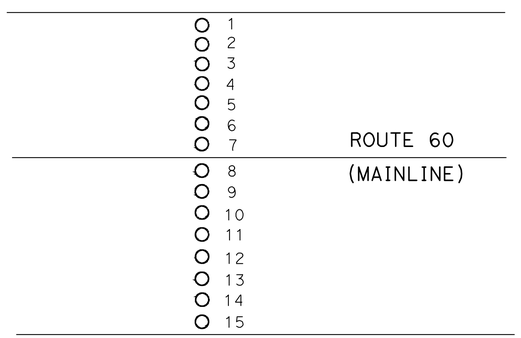
REGISTERED PROFESSIONAL ENGINEER
C.BURCIAGA
No. E015302
Exp. 3/31/11
ELECT
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MODIFY RAMP METERING SYSTEM

PM	LOCATION	SEE DETAIL "B" THIS SHEET FOR TYPICAL LOCATION OF LOOP DETECTORS															No. OF STUBOUTS (REPLACE)
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
24.55	EB ROUTE 60 AT GRAND Ave								X	X	X	X	X	X	X	X	1
24.71	WB ROUTE 60 AT GRAND Ave	X	X	X	X	X	X	X									1
25.66	WB ROUTE 60 AT DIAMOND BAR Blvd			X	X	X	X	X									1
25.71	EB ROUTE 60 AT DIAMOND BAR Blvd								X	X	X	X	X				1
28.33	EB ROUTE 60 E OF PHILLIPS RANCH Rd								X	X	X	X	X				1
28.34	WB ROUTE 60 E OF PHILLIPS RANCH Rd			X	X	X	X	X									1
29.16	WB ROUTE 60 W OF GAREY Ave			X	X	X	X	X									1
29.16	EB ROUTE 60 W OF GAREY Ave								X	X	X	X	X				1
29.40	WB ROUTE 60 E OF GAREY Ave			X	X	X	X	X									1
29.40	EB ROUTE 60 E OF GAREY Ave								X	X	X	X	X				1
30.19	WB ROUTE 60 AT RESERVOIR St			X	X	X	X	X									1
30.30	EB ROUTE 60 AT RESERVOIR St								X	X	X	X	X				1

X - INSTALL TYPE E INDUCTIVE LOOP DETECTOR. ABANDON EXISTING INDUCTIVE LOOP DETECTOR AT SAME LOCATION.



DETAIL "B"

DETAIL FOR TYPICAL LOOP DETECTOR INSTALLATION ON MAINLINE

MODIFY RAMP METERING SYSTEM

NO SCALE

E-2

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

SUPERVISING ENGINEER: YI TSAU

CALCULATED-DESIGNED BY: FARIDA MAHMOOD
CHECKED BY: CECILIO BURCIAGA

REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:47

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	95	124

REGISTERED ELECTRICAL ENGINEER 11/05/09 DATE

4-26-10
PLANS APPROVAL DATE

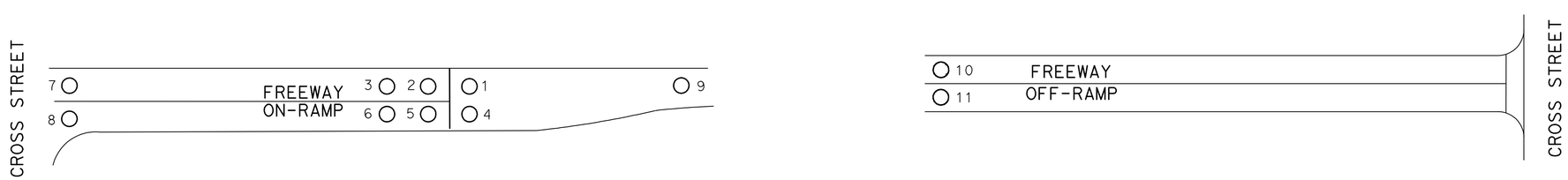
REGISTERED PROFESSIONAL ENGINEER C.BURCIAGA No. E015302 Exp. 3/31/11 ELECT STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ELECTRONIC COPIES OF THIS PLAN SHEET.

MODIFY RAMP METERING SYSTEM

PM	LOCATION	SEE DETAIL "C" THIS SHEET FOR TYPICAL LOCATION OF LOOP DETECTORS												No. OF STUBOUTS (REPLACE)
		1	2	3	4	5	6	7	8	9	10	11		
24.71	WB OFF-RAMP TO GRAND Ave										X	X		1
25.44	EB OFF-RAMP TO DIAMOND BAR Blvd										X	X		1
25.66	WB ON-RAMP FROM DIAMOND BAR Blvd	X	X	X		X		X		X				5
25.71	EB ON-RAMP FROM DIAMOND BAR Blvd		X		X	X	X		X	X				5
25.88	WB OFF-RAMP TO DIAMOND BAR Blvd										X	X		1
28.33	EB ON-RAMP FROM NB PHILLIPS RANCH Rd	X	X	X	X	X	X	X		X				3
28.34	WB ON-RAMP FROM NB PHILLIPS RANCH Rd	X	X	X	X	X	X	X	X	X				4
29.16	WB ON-RAMP FROM GAREY Ave	X	X	X	X	X	X	X	X	X				4
29.18	EB OFF-RAMP TO GAREY Ave										X			1
29.40	EB ON-RAMP FROM GAREY Ave	X	X	X	X	X	X	X	X	X				4
29.42	WB OFF-RAMP TO GAREY Ave										X	X		1
30.30	EB ON-RAMP FROM RESERVOIR St	X	X	X	X	X	X	X	X	X				7

X - INSTALL TYPE E INDUCTIVE LOOP DETECTOR. ABANDON EXISTING INDUCTIVE LOOP DETECTOR AT SAME LOCATION.



DETAIL "C"

TYPICAL LOOP DETECTOR INSTALLATION FOR ON AND OFF-RAMPS

MODIFY RAMP METERING SYSTEM

NO SCALE

E-3

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

SUPERVISING ENGINEER: YI TSAU
CALCULATED-DESIGNED BY: FARIDA MAHMOOD
CHECKED BY: CECILIO BURCIAGA
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:07

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	96	124

REGISTERED ELECTRICAL ENGINEER 11/05/09 DATE

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C. BURCIAGA No. E015302 Exp. 3/31/11 ELECT STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTE:

FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.

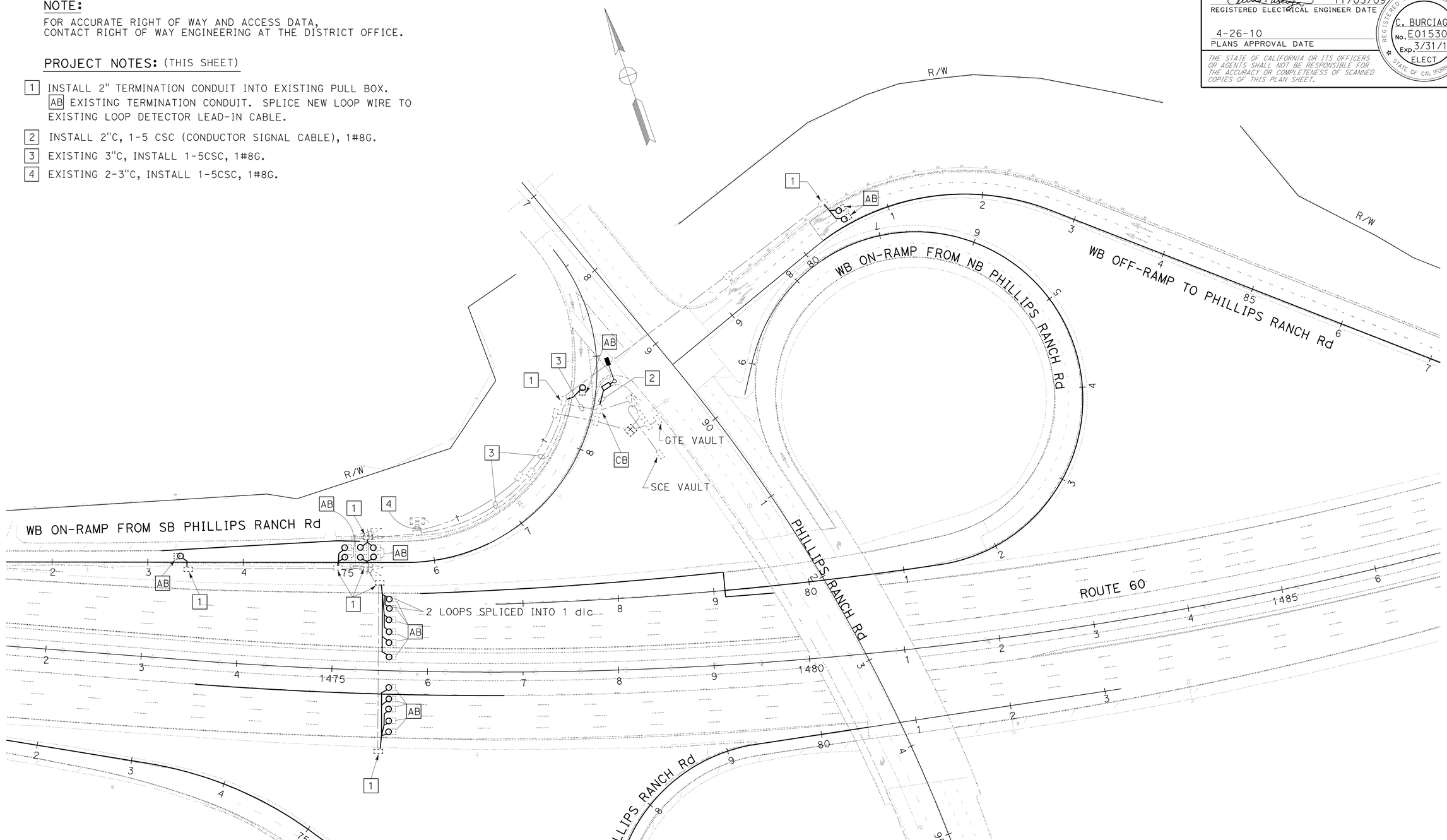
PROJECT NOTES: (THIS SHEET)

1 INSTALL 2" TERMINATION CONDUIT INTO EXISTING PULL BOX.
AB EXISTING TERMINATION CONDUIT. SPLICE NEW LOOP WIRE TO EXISTING LOOP DETECTOR LEAD-IN CABLE.

2 INSTALL 2"C, 1-5 CSC (CONDUCTOR SIGNAL CABLE), 1#8G.

3 EXISTING 3"C, INSTALL 1-5CSC, 1#8G.

4 EXISTING 2-3"C, INSTALL 1-5CSC, 1#8G.



MODIFY RAMP METERING SYSTEM

SCALE: 1" = 50'

E-4

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: FARIDA MAHMOOD
CHECKED BY: CECILIO BURCIAGA
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:35

BORDER LAST REVISED 4/11/2008
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
USERNAME => trmartin
DGN FILE => 725330ua004.dgn
CU 07383
EA 253301

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	97	124

REGISTERED ELECTRICAL ENGINEER 11/05/09

4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER C. BURCIAGA No. E015302 Exp. 3/31/11 ELECT STATE OF CALIFORNIA

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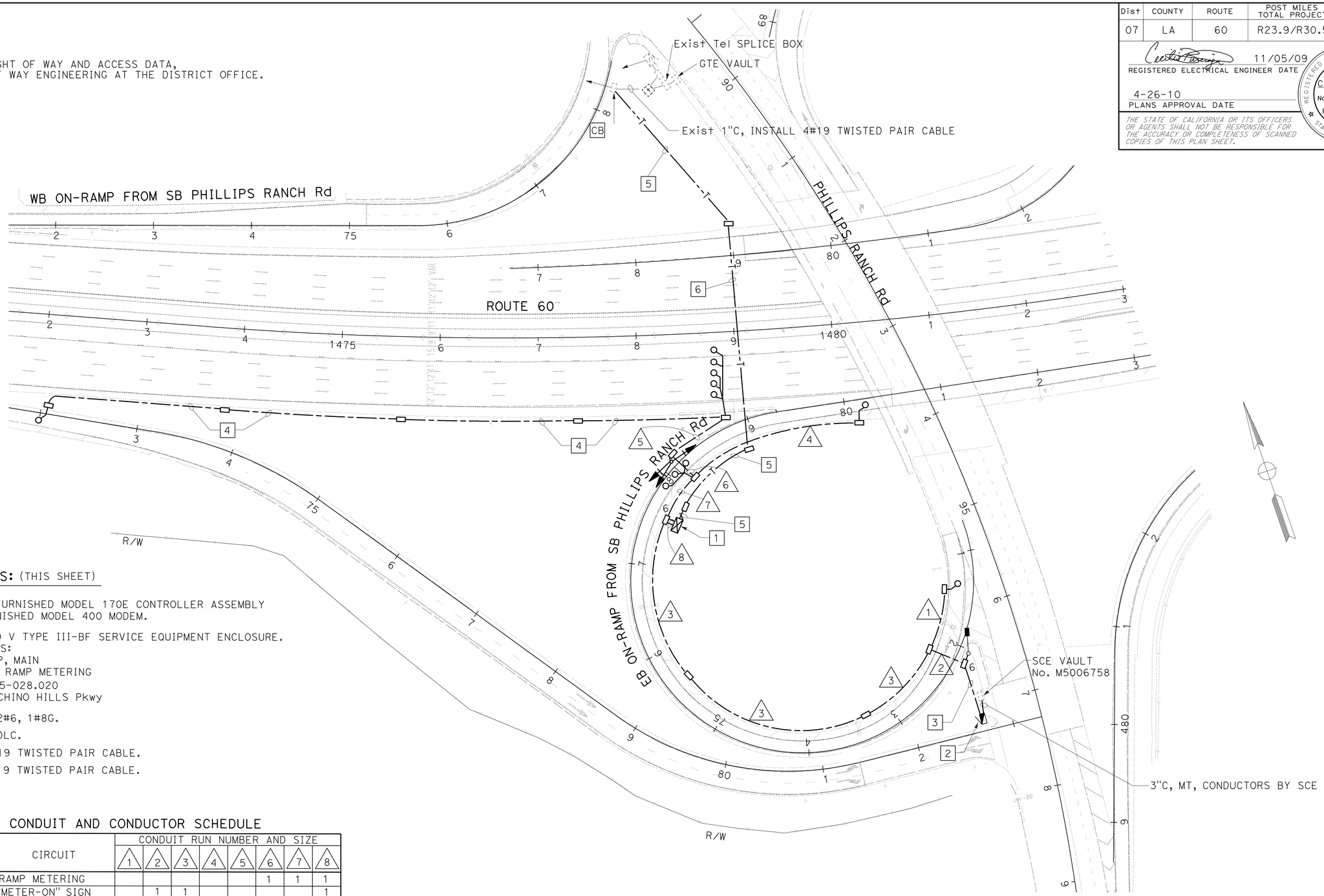
NOTE:
FOR ACCURATE RIGHT OF WAY AND ACCESS DATA,
CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.



PROJECT NOTES: (THIS SHEET)

1. INSTALL STATE-FURNISHED MODEL 170E CONTROLLER ASSEMBLY WITH STATE-FURNISHED MODEL 400 MODEM.
2. INSTALL 120/240 V TYPE III-BF SERVICE EQUIPMENT ENCLOSURE.
   CIRCUIT BREAKERS:
   100 A, 240 V, 2P, MAIN
   30 A, 120 V, IP, RAMP METERING
   ID No. 07-53-605-028.020
   ADDRESS: 3 ½ CHINO HILLS Pkwy
3. INSTALL 2-3"C, 2#6, 1#8G.
4. INSTALL 2"C, 1 DLC.
5. INSTALL 2"C, 4#19 TWISTED PAIR CABLE.
6. INSTALL 3"C, 4#19 TWISTED PAIR CABLE.

CONDUIT AND CONDUCTOR SCHEDULE

AWG OR CONDUCTOR	CIRCUIT	CONDUIT RUN NUMBER AND SIZE							
		1	2	3	4	5	6	7	8
9CSC	RAMP METERING						1	1	1
5CSC	"METER-ON" SIGN		1	1					1
DLC	QUEUE DETECTOR	1		1					1
	DEMAND DETECTOR							1	1
	PASSAGE DETECTOR							1	1
	MAINLINE DETECTOR					5	5	5	5
	COUNT DETECTOR				1	1	1	2	2
#6	SERVICE		2	2					2
#8	GROUND		1	1			1	1	1
	CONDUIT SIZE	2"	2"	2"	2"	3"	3"	3"	2-3"

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

RAMP METERING SYSTEM

SCALE: 1" = 50'

E-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans® TRAFFIC DESIGN

FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: FARIDA MAHMOOD
CHECKED BY: CECILIO BURCIAGA
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 10:35

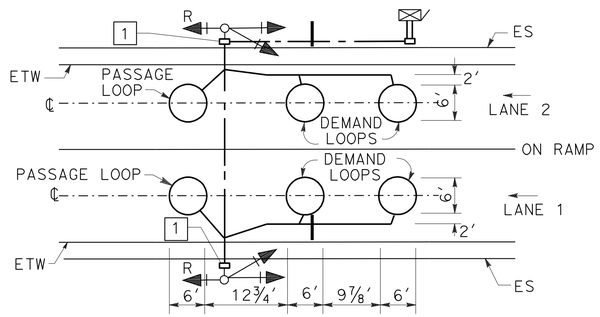
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	98	124

REGISTERED ELECTRICAL ENGINEER 11/05/09 DATE

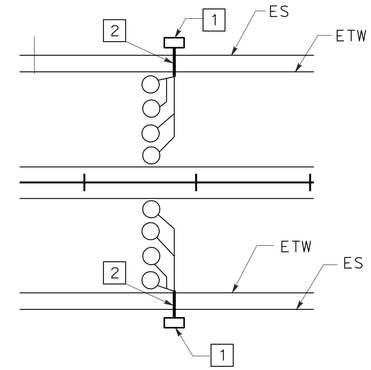
4-26-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER CECILIO BURCIAGA No. E015302 Exp. 03-31-11 ELECTRICAL STATE OF CALIFORNIA

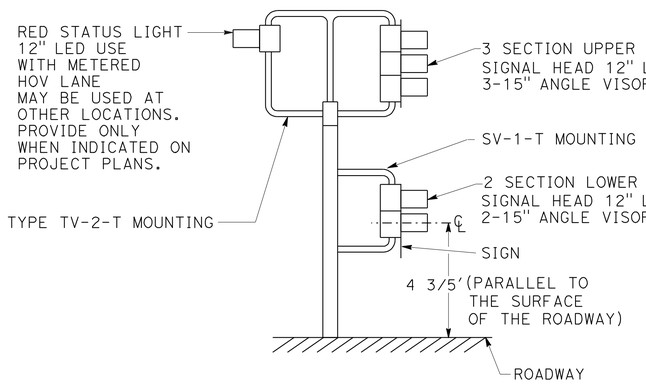
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

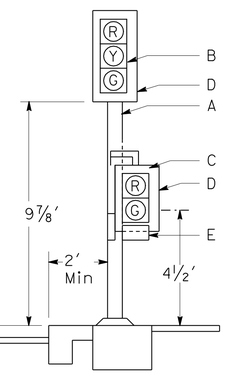


TYPICAL 2-LANE RAMP
METERING SYSTEM INSTALLATION



TYPICAL TRAFFIC
MONITORING LOOP CONFIGURATION





RAMP METER SIGNAL

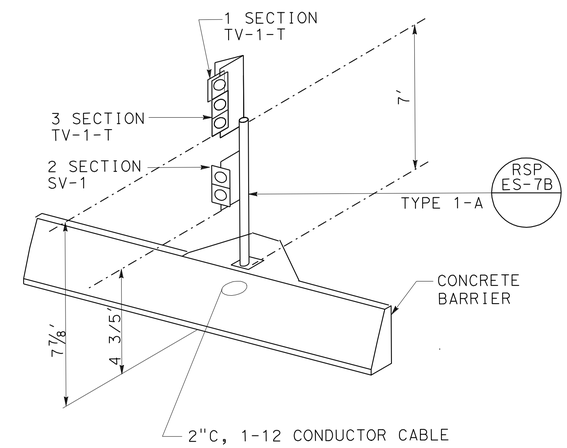
A. TYPE 1-A SIGNAL STANDARD.

B. 3-SECTION 12" LED SIGNAL HEAD (RED, YELLOW, GREEN). 18" x 7⅞" ANGLED VISORS ARE REQUIRED WHERE SHOWN ON PLANS.

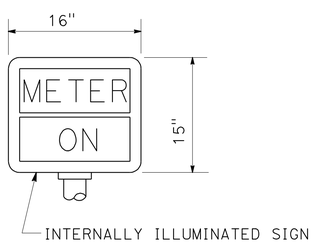
C. 2-SECTION 12" LED SIGNAL HEAD (RED, GREEN). 12" FULL CIRCLE VISORS TYPE SV-1-T BRACKET MOUNTING ON SIDE OF STANDARD, AWAY FROM TRAFFIC.

D. BACKPLATE.

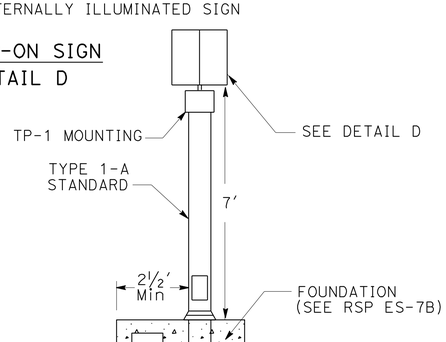
E. R89(CA) MOUNT ON BACK PLATE AND CENTER BETWEEN GREEN SECTION AND BOTTOM OF BACK PLATES AND SIDES. ATTACH WITH ¼" x ¾" BOLTS, HEX NUTS, PLAIN AND LOCK WASHERS.

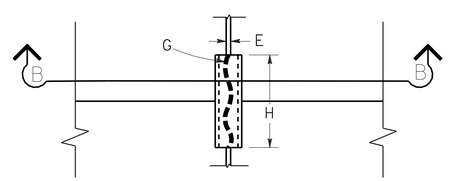


TYPICAL DETAIL FOR RAMP METER SIGNAL ON CONCRETE BARRIER

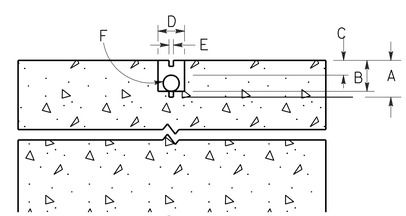


METER-ON SIGN
DETAIL D





PLAN VIEW



SECTION B-B

A. SAW-CUT DEPTH TO ACCOMMODATE SPECIFIED NUMBER OF CONDUCTORS WITH A MINIMUM OF ½" FROM TOP OF WIRE TO PAVEMENT SURFACE (3 ¼" Max).

B. SLOT SAW-CUT DEPTH TO ACCOMMODATE 1" TYPE 3 CONDUIT WITH ½" MINIMUM FROM TOP OF CONDUIT TO PAVEMENT SURFACE.

C. ½" MINIMUM BETWEEN TOP OF CONDUIT AND PAVEMENT SURFACE.

D. SAW-CUT WIDTH TO ACCOMMODATE 1" TYPE 3 CONDUIT WITH ½" CLEARANCE.

E. SAW-CUT 2/5" WIDE (Max).

F. 1" TYPE 3 CONDUIT, 6" LONG, PLUG BOTH ENDS WITH CAULKING COMPOUND TO KEEP OUT EPOXY.

G. CONDUCTORS WITH ½" MINIMUM SLACK INSIDE CONDUIT.

H. SAW-CUT LENGTH OF SLOT ⅛" LONGER THAN CONDUIT.

TYPICAL LOOP LEAD-IN
DETAIL AT PAVEMENT JOINT

NOTES: (THIS SHEET ONLY)

1. SEE PLANS FOR CONDUIT SIZES & TYPES OF PULL BOXES. SEE TYPICAL LOOP LEAD-IN DETAIL AT PAVEMENT JOINT ON THIS SHEET.

2. SEE ES-5D.

3. THE CONTRACTOR SHALL VERIFY ALL CONTROLLER FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING MATERIAL.

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY.

RAMP METERING SYSTEM
(DETAILS)

NO SCALE

E-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans TRAFFIC DESIGN
FUNCTIONAL SUPERVISOR: YI TSAU
CALCULATED-DESIGNED BY: FARIDA MAHMOOD
CHECKED BY: CECILIO BURCIAGA
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
DATE PLOTTED => 29-APR-2010
TIME PLOTTED => 11:47

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	99	124

REGISTERED CIVIL ENGINEER

June 6, 2008
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Donald E. Howe
No. C46402
Exp. 3-31-09
CIVIL
STATE OF CALIFORNIA

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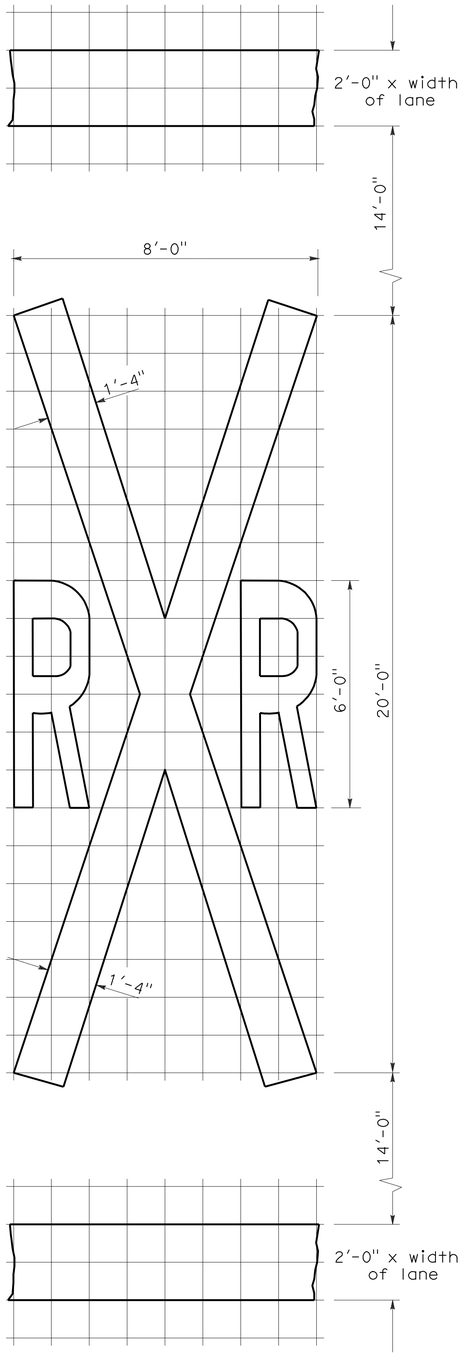
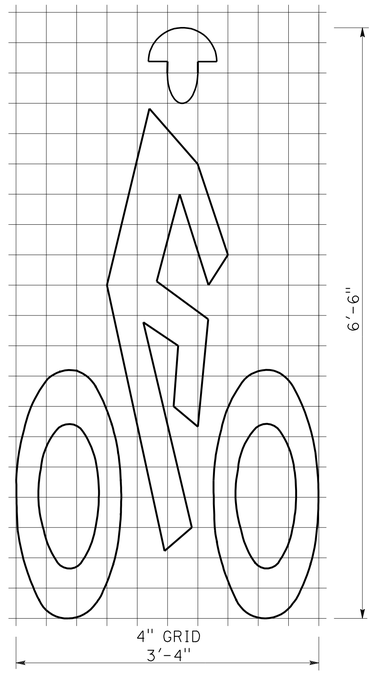
To accompany plans dated 4-26-10

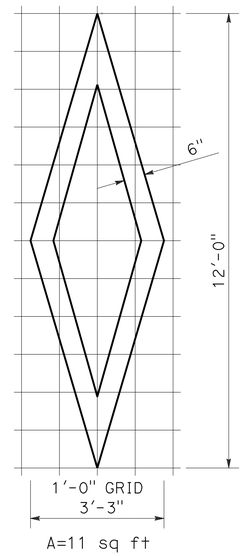


RAILROAD CROSSING SYMBOL

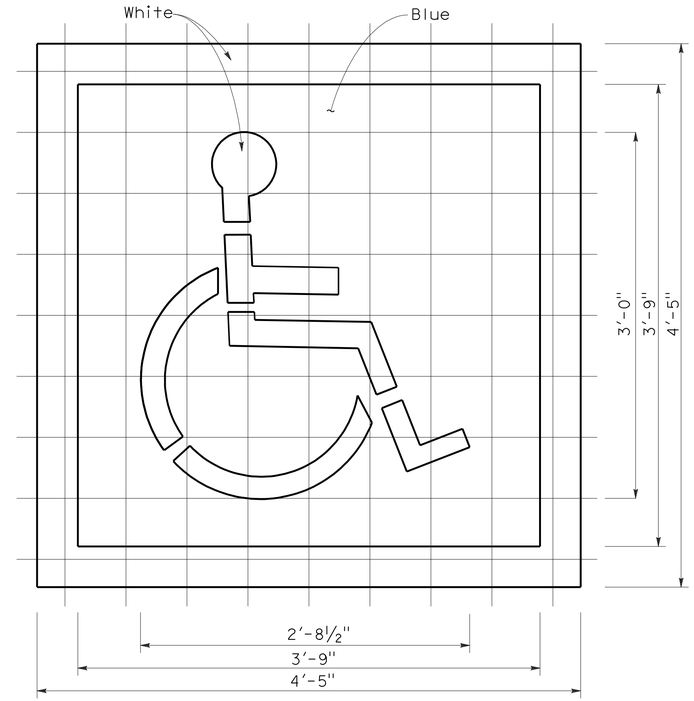
✳70 sq ft DOES NOT INCLUDE THE 2'-0" x VARIABLE WIDTH TRANSVERSE LINES.



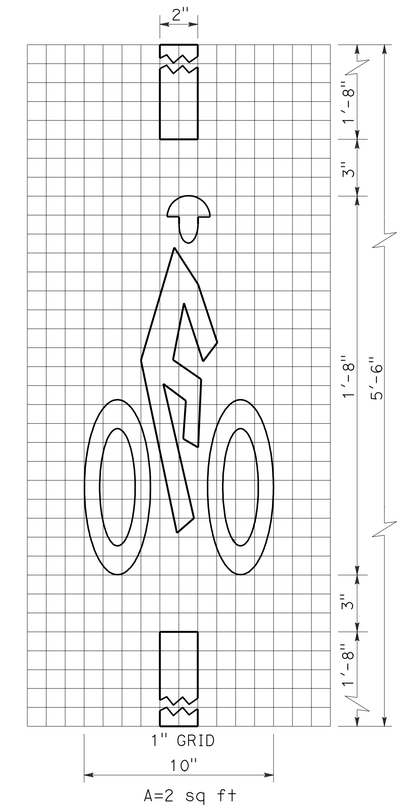
BIKE LANE SYMBOL



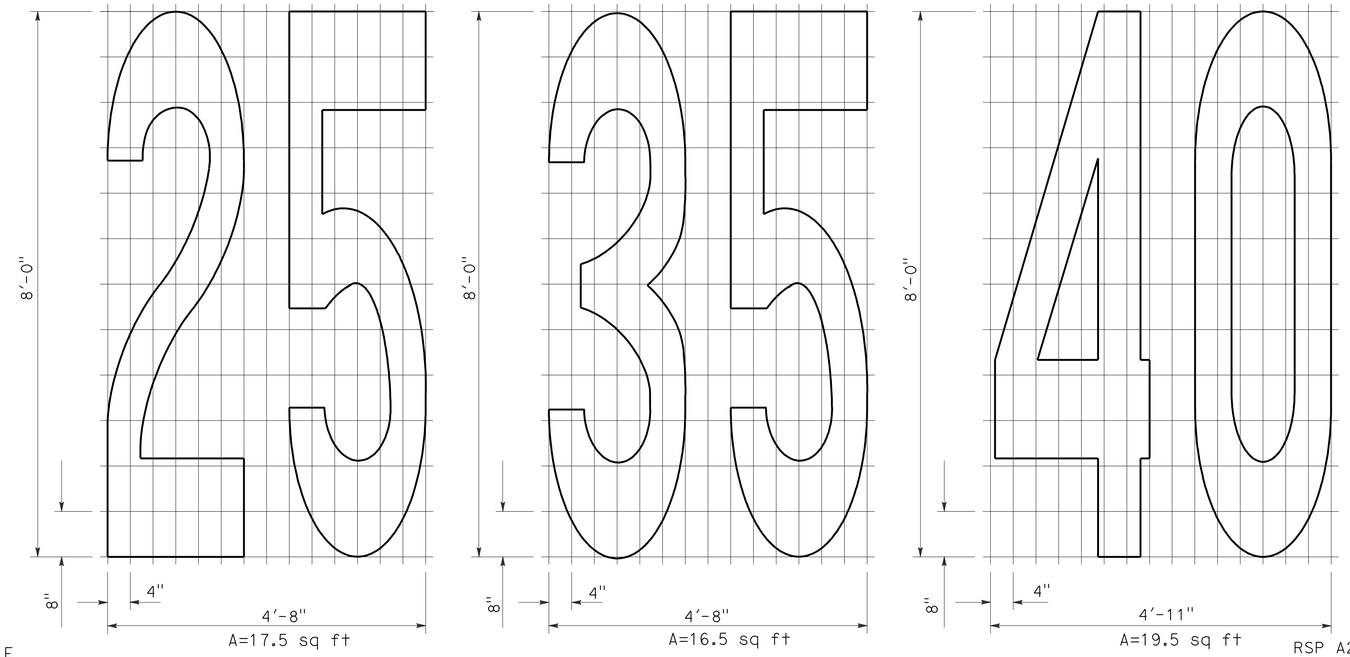
DIAMOND SYMBOL



INTERNATIONAL SYMBOL OF ACCESSIBILITY MARKING



BICYCLE LOOP DETECTOR SYMBOL



NUMERALS

NOTE:

1. Minor variations in dimensions may be accepted by the Engineer.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS SYMBOLS AND NUMERALS

NO SCALE

RSP A24C DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN A24C DATED MAY 1, 2006 - PAGE 11 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP A24C

2006 REVISED STANDARD PLAN RSP A24C

5-27-08

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	R23.9/R30.5	100	124

William K. Farnbach
REGISTERED CIVIL ENGINEER

May 15, 2009
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER William K. Farnbach No. C49042 Exp. 9-30-10 CIVIL STATE OF CALIFORNIA

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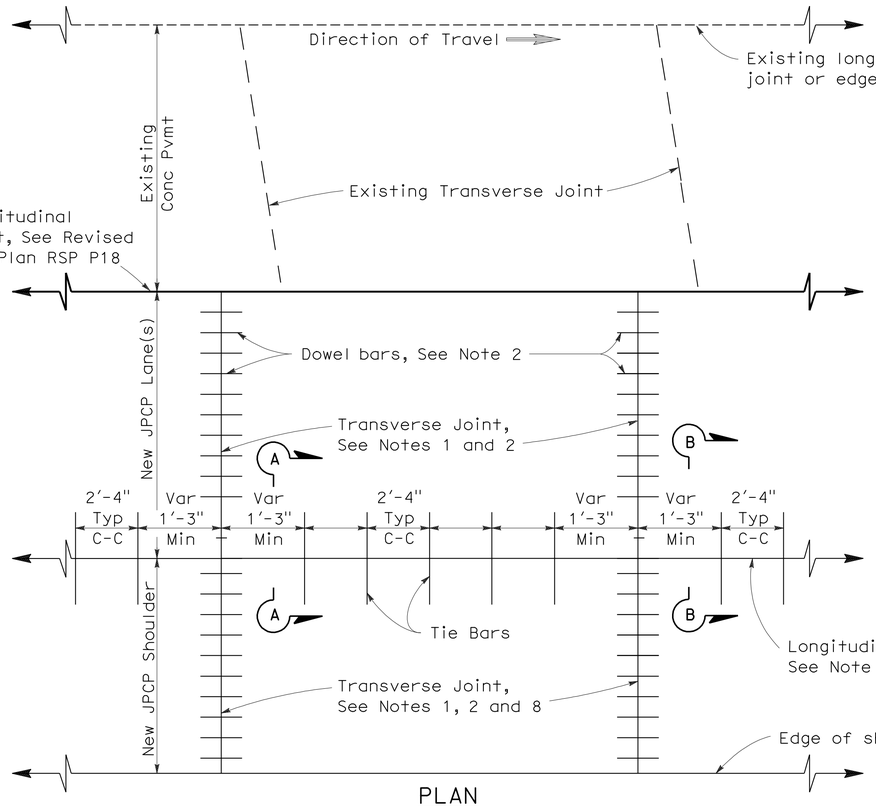
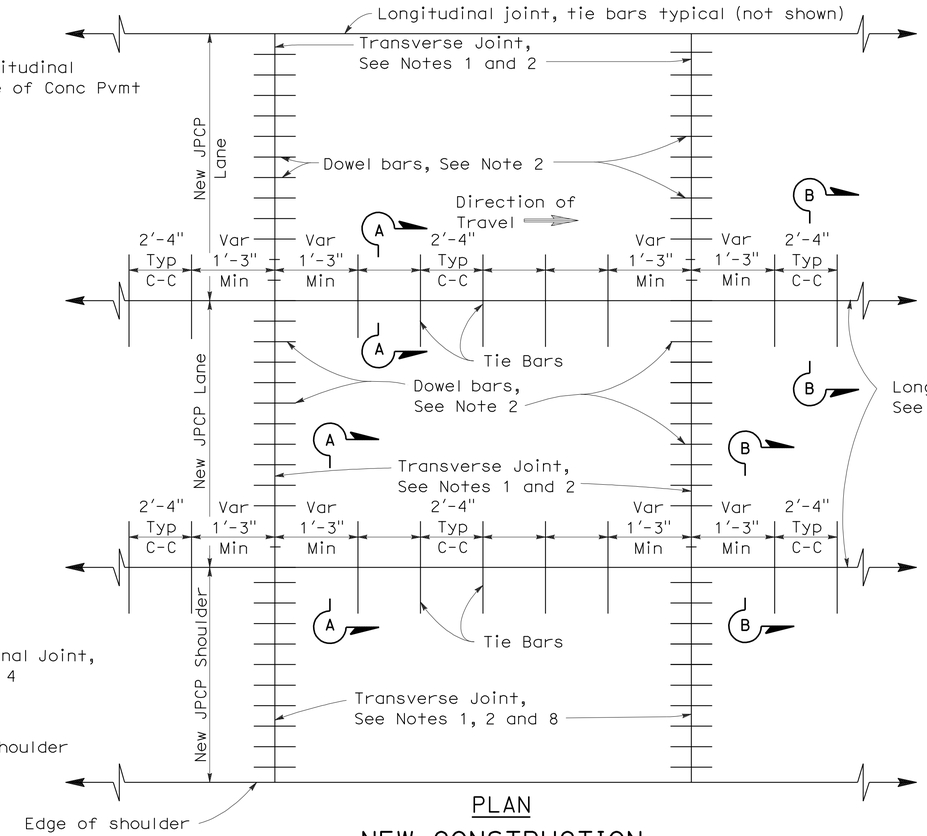
To accompany plans dated 4-26-10



PLAN

LANE/SHOULDER ADDITION OR RECONSTRUCTION

See Notes 6 and 7



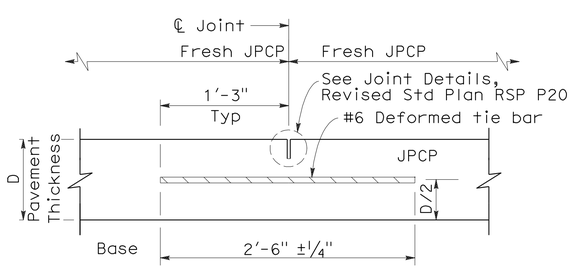
PLAN

NEW CONSTRUCTION

See Notes 6 and 7

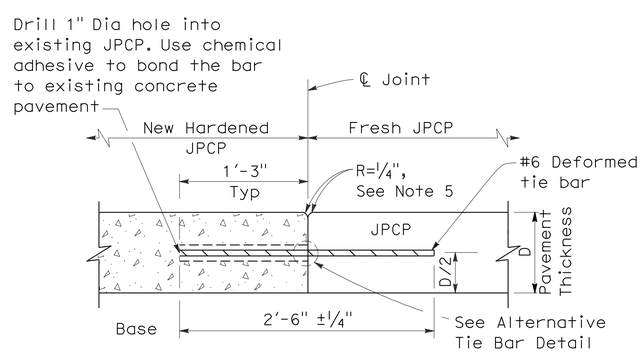
NOTES:

1. Transverse joints shall be constructed at right angles to the longitudinal pavement joints in new jointed plain concrete pavement and spaced at successive repeated intervals of 12', 15', 13' and 14'.
2. For transverse joint and dowel bar details not shown, See Revised Standard Plan RSP P10.
3. Construct longitudinal contraction joints as shown in Section A-A when more than one lane or shoulder widths are placed at one time. If constructing one lane at a time, use longitudinal construction joint, as shown in Section B-B.
4. For additional longitudinal joint details, see Revised Standard Plan RSP P18.
5. If fresh concrete is placed adjacent to existing concrete, the top corner of the new hardened concrete does not need to be rounded to the 1/4" radius as shown.
6. Joint spacing patterns do not apply to intersections.
7. Details can also apply to inside widening.
8. Dowel bars may be omitted from shoulders when the shoulder cross slope is not the same as the adjacent traffic lane.



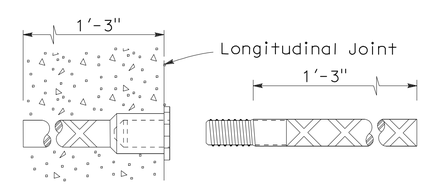
SECTION A-A

LONGITUDINAL CONTRACTION JOINT



SECTION B-B

LONGITUDINAL CONSTRUCTION JOINT



ALTERNATIVE TIE BAR SPLICE DETAIL

(Splice Coupler)

TIE BAR DETAILS

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

JOINTED PLAIN CONCRETE PAVEMENT

NO SCALE

RSP P1 DATED MAY 15, 2009 SUPERSEDES STANDARD PLAN P1
DATED MAY 1, 2006 - PAGE 119 OF THE STANDARD PLANS BOOK DATED MAY 2006.

REVISED STANDARD PLAN RSP P1

2006 REVISED STANDARD PLAN RSP P1

5-8-09