Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	R32.4/R33.3	86	473

REGISTERED CIVIL ENGINEER — 2/3/10 DATE

6-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Lindsay J Juarez — No. C68432 — Exp. 9/30/11 — CIVIL — STATE OF CALIFORNIA

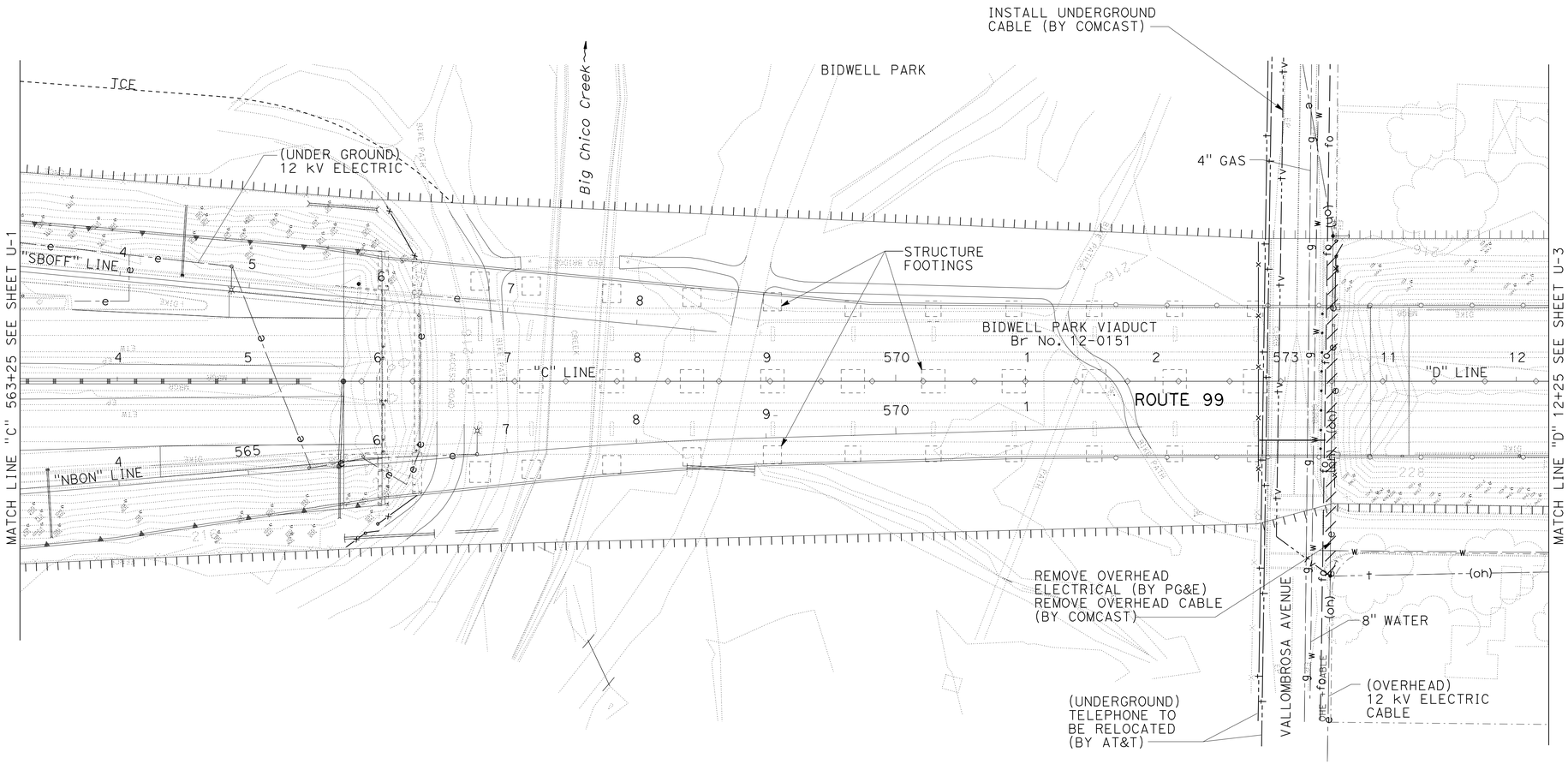
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

QUINCY ENGINEERING INC
3247 RAMOS CIRCLE
SACRAMENTO, CA 95827-2501

BUTTE COUNTY ASSOCIATION OF GOVERNMENTS
2580 SIERRA SUNRISE TERRACE, SUITE 100
CHICO, CA 95928

NOTES:

1. THIS PLAN ACCURATE FOR UTILITY INFORMATION ONLY.
2. FOR COMPLETE R/W AND ACCURATE ACCESS DATA, SEE R/W MAPS AT DISTRICT OFFICE.



2 REVISED PER ADDENDUM No. 2 DATED APRIL 29, 2011

UTILITY PLAN

SCALE: 1" = 50'

U-2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAROLYN DAVIS

CALCULATED-DESIGNED BY: L. JUAREZ

CHECKED BY: C. GIBSON

REVISED BY

DATE REVISED

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2011 | TIME PLOTTED => 09:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	R32.4/R33.3	96	473

REGISTERED CIVIL ENGINEER 2/3/10 DATE

6-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Lindsay J Juarez No. C68432 Exp. 9/30/11 CIVIL STATE OF CALIFORNIA

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QUINCY ENGINEERING INC
3247 RAMOS CIRCLE
SACRAMENTO, CA 95827-2501

BUTTE COUNTY ASSOCIATION OF GOVERNMENTS
2580 SIERRA SUNRISE TERRACE, SUITE 100
CHICO, CA 95928

NOTES:

1. PORTABLE CHANGEABLE MESSAGE SIGN AND SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.
2. THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.
3. STATION AND OFFSETS OF TEMPORARY RAILING ARE TAKEN AT CENTER LINE OF RAILING.
4. FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, SEE RIGHT OF WAY MAPS AT DISTRICT OFFICE.
5. EXACT MESSAGES ON PORTABLE CHANGEABLE MESSAGE SIGNS TO BE DETERMINED BY REGIONAL TRAFFIC MANAGEMENT CENTER.

STAGE 1: PHASE 1

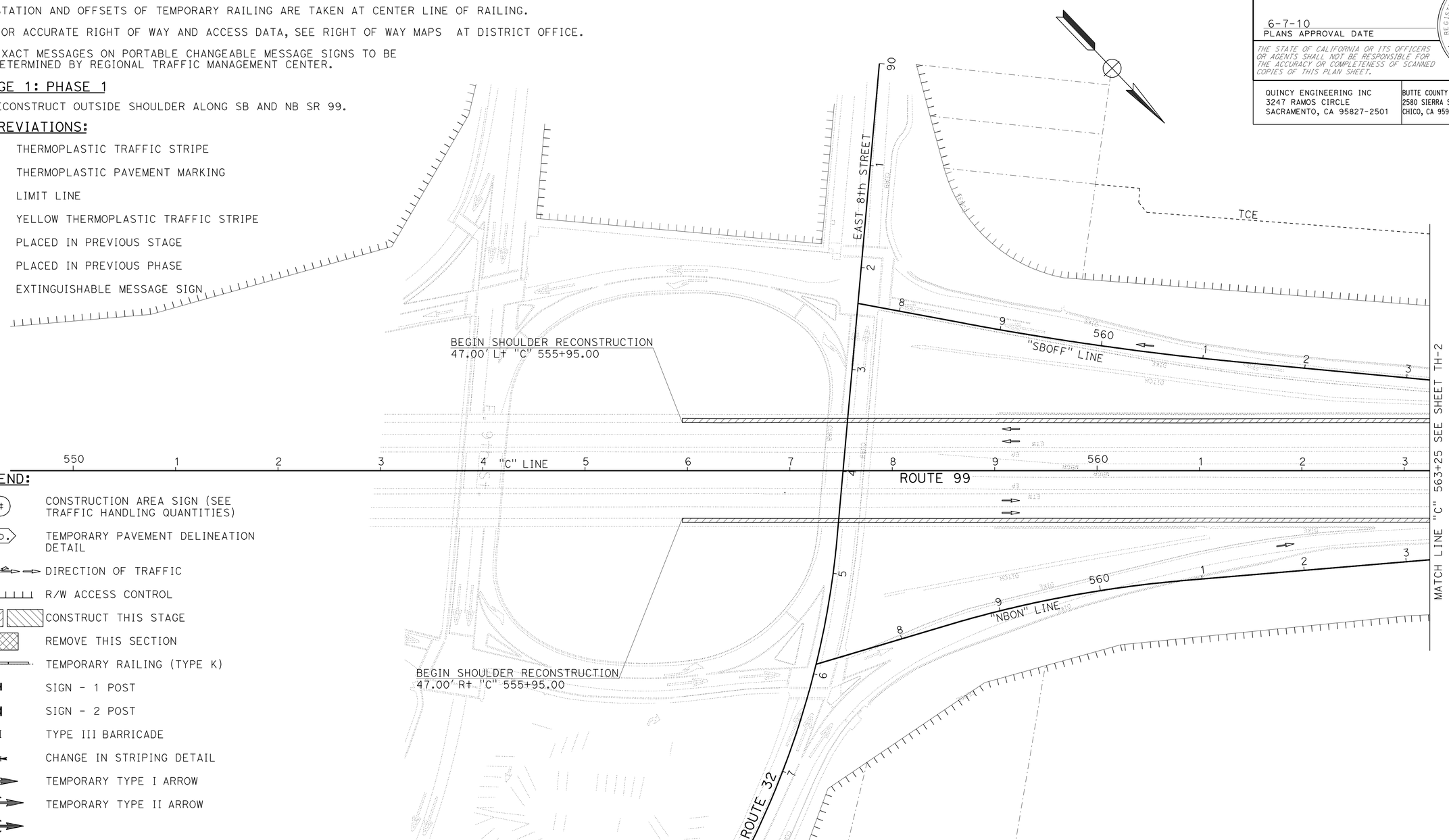
1. RECONSTRUCT OUTSIDE SHOULDER ALONG SB AND NB SR 99.

ABBREVIATIONS:

TTS	THERMOPLASTIC TRAFFIC STRIPE
TPM	THERMOPLASTIC PAVEMENT MARKING
LL	LIMIT LINE
YTTS	YELLOW THERMOPLASTIC TRAFFIC STRIPE
PPS	PLACED IN PREVIOUS STAGE
PPP	PLACED IN PREVIOUS PHASE
2 EMS	EXTINGUISHABLE MESSAGE SIGN

LEGEND:

- (#) CONSTRUCTION AREA SIGN (SEE TRAFFIC HANDLING QUANTITIES)
- (No.) TEMPORARY PAVEMENT DELINEATION DETAIL
- DIRECTION OF TRAFFIC
- R/W ACCESS CONTROL
- CONSTRUCT THIS STAGE
- REMOVE THIS SECTION
- TEMPORARY RAILING (TYPE K)
- SIGN - 1 POST
- SIGN - 2 POST
- TYPE III BARRICADE
- CHANGE IN STRIPING DETAIL
- TEMPORARY TYPE I ARROW
- TEMPORARY TYPE II ARROW
- TEMPORARY TYPE III ARROW
- TEMPORARY TYPE V ARROW
- CHANNELIZERS (SURFACE MOUNTED)
- TRAFFIC PLASTIC DRUMS
- (#) CURVE NUMBER
- PORTABLE CHANGEABLE MESSAGE SIGN OR EXTINGUISHABLE MESSAGE SIGN 2



2 REVISED PER ADDENDUM No. 2 DATED APRIL 29, 2011

STAGE 1 - PHASE 1 TRAFFIC HANDLING PLAN

SCALE: 1" = 50'

TH-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAROLYN DAVIS

CALCULATED-DESIGNED BY: M. RUBLE

CHECKED BY: C. GIBSON

REVISED BY / DATE REVISED

LAST REVISION 00-00-00

DATE PLOTTED => 29-APR-2011
TIME PLOTTED => 09:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	R32.4/R33.3	135	473

REGISTERED CIVIL ENGINEER — DATE 2/3/10

6-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Lindsay J Juarez — No. C68432 — Exp. 9/30/11 — CIVIL — STATE OF CALIFORNIA

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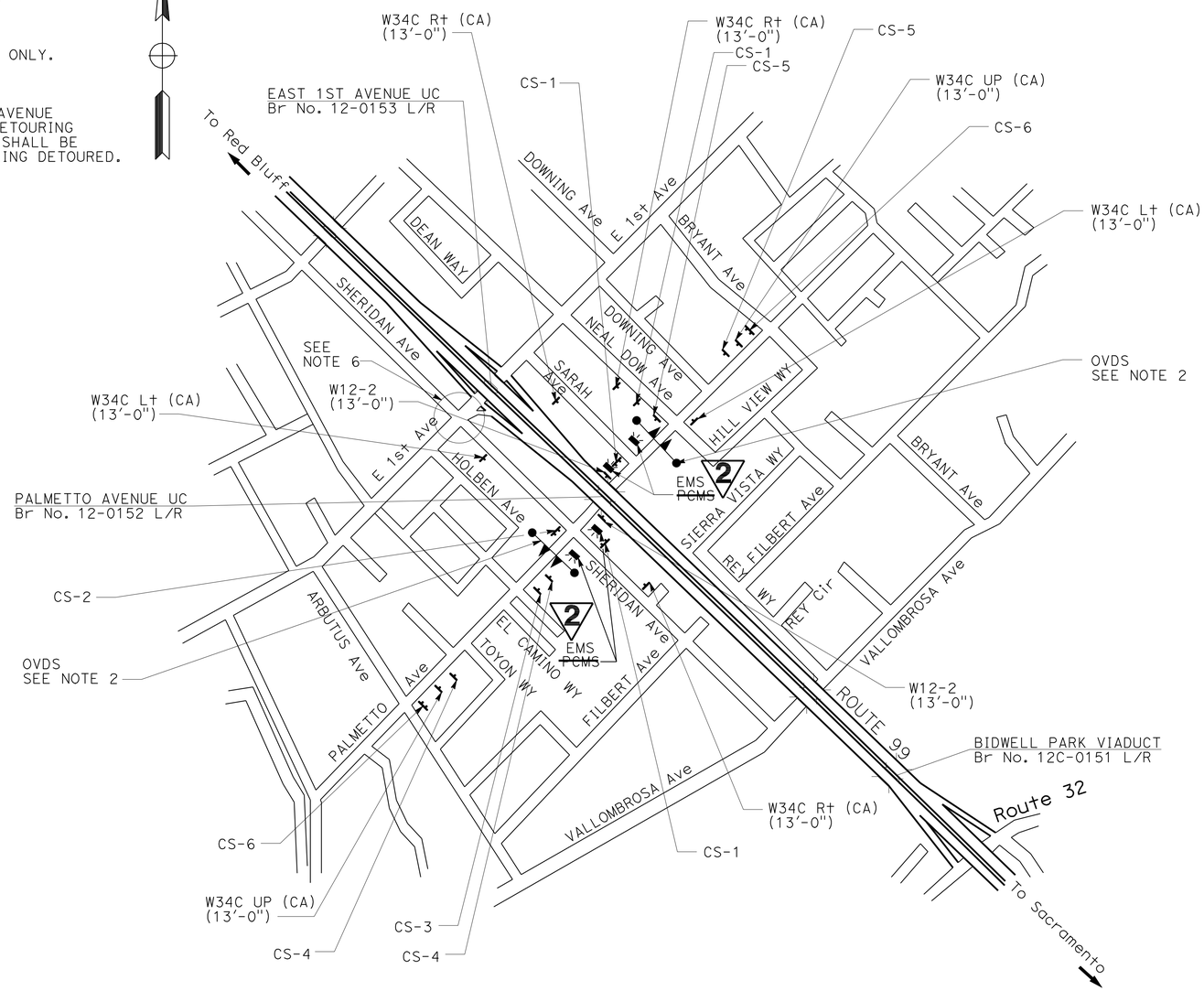
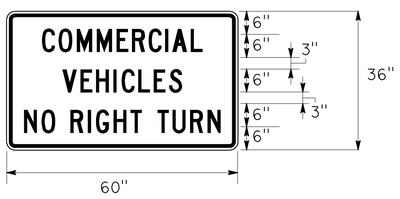
QUINCY ENGINEERING INC
3247 RAMOS CIRCLE
SACRAMENTO, CA 95827-2501

BUTTE COUNTY ASSOCIATION OF GOVERNMENTS
2580 SIERRA SUNRISE TERRACE, SUITE 100
CHICO, CA 95928

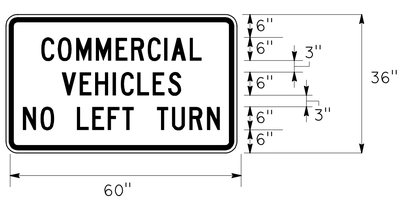
NOTES:

1. OVDS = OVERHEIGHT VEHICLE DETECTION SYSTEM.
2. FOR ADDITIONAL DETAILS SEE ELECTRICAL PLANS.
3. FOR LEGEND SEE TH-1.
4. THIS PLAN ACCURATE FOR TRAFFIC HANDLING WORK ONLY.
5. FOR ~~PCMS~~ EMS MESSAGES SEE ELECTRICAL PLANS. (2)
6. EXISTING RAISED CONCRETE ISLAND AT EAST 1ST AVENUE AND SHERIDAN AVENUE TO BE REMOVED PRIOR TO DETOURING ANY TRUCK TRAFFIC. NO RAISED CONCRETE ISLAND SHALL BE PLACED INTERSECTION WHILE TRUCK TRAFFIC IS BEING DETOURED.

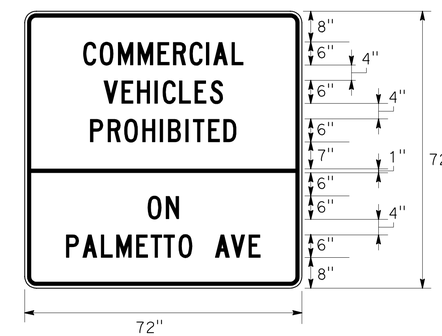




CS-1

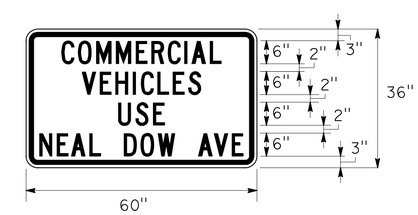


CS-2



CS-6

TEMPORARY VERTICAL CLEARANCE SIGNING FOR PALMETTO AVENUE



CS-5

GENERAL FEATURES

1. EXCEPT AS OTHERWISE SHOWN, THE LEGEND OF THE SIGN SHALL BE BLACK ON AN ORANGE BACKGROUND (RETRO-REFLECTIVE)
2. THE BORDER OF THE SIGNS SHALL BE BLACK.
3. ALL LETTERING SHALL BE 6" C SERIES

CS-3

CS-4

(2) **REVISED PER ADDENDUM No. 2 DATED APRIL 29, 2011**

TRAFFIC HANDLING PLAN
NO SCALE

TH-40

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

CONSULTANT FUNCTIONAL SUPERVISOR: CAROLYN DAVIS

CALCULATED-DESIGNED BY: M. RUBLE — CHECKED BY: C. GIBSON — REVISED BY — DATE REVISED

LAST REVISION 00-00-00 — DATE PLOTTED => 29-APR-2011 — TIME PLOTTED => 09:42

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	But	99	R32.4/R33.3	136	473

REGISTERED CIVIL ENGINEER 2/3/10 DATE

6-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Lindsay J Juarez No. C68432 Exp. 9/30/11 CIVIL STATE OF CALIFORNIA

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QUINCY ENGINEERING INC
3247 RAMOS CIRCLE
SACRAMENTO, CA 95827-2501

BUTTE COUNTY ASSOCIATION OF GOVERNMENTS
2580 SIERRA SUNRISE TERRACE, SUITE 100
CHICO, CA 95928

NOTES:

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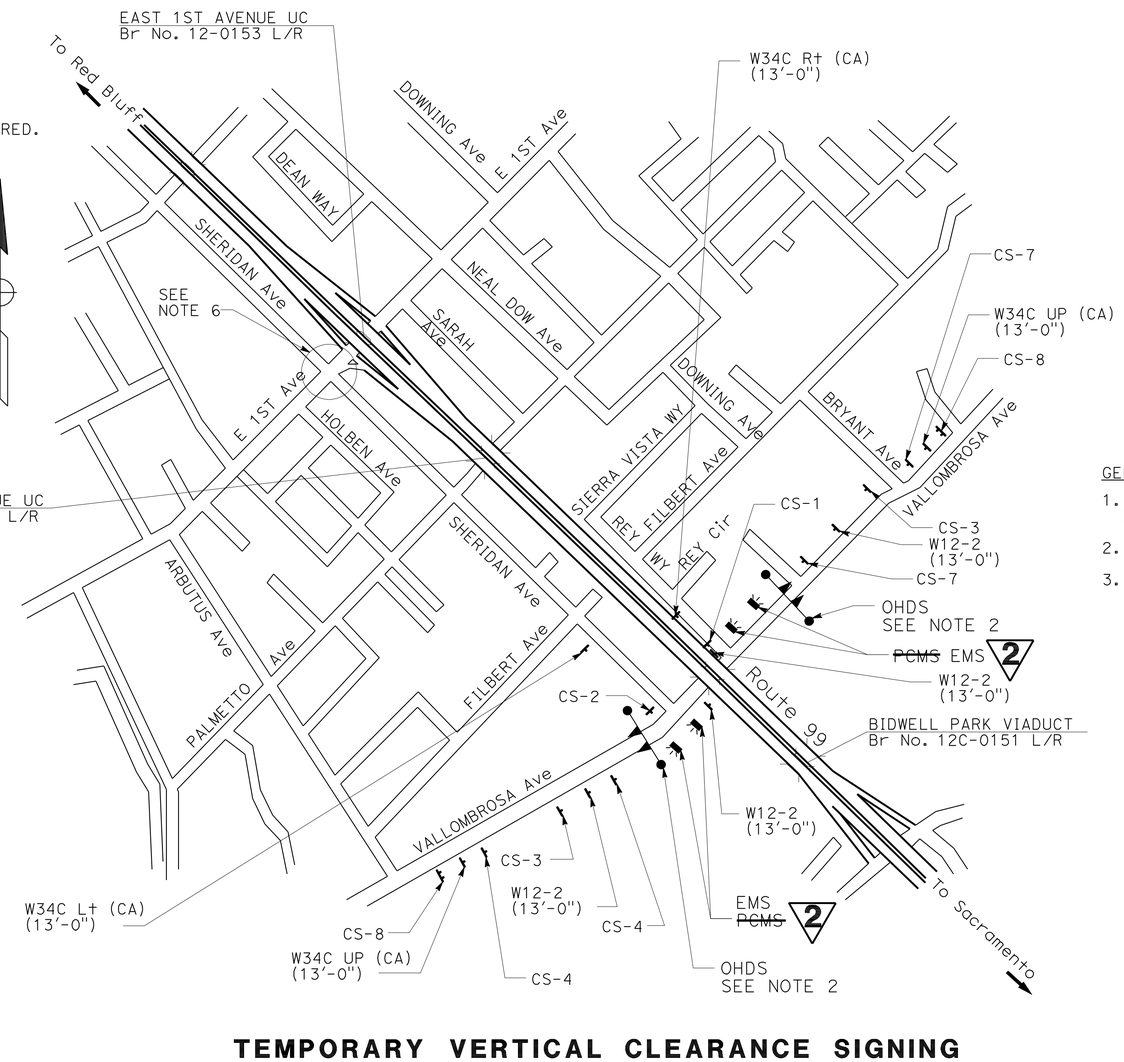

GENERAL FEATURES

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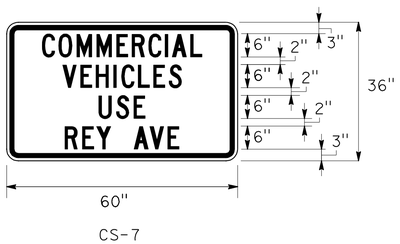
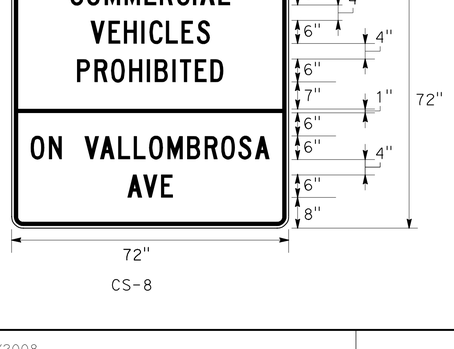
2. THE BORDER OF THE SIGNS SHALL BE BLACK.
3. ALL LETTERING SHALL BE 6" C SERIES



CS-7



CS-8

TEMPORARY VERTICAL CLEARANCE SIGNING FOR VALLOMBROSA AVENUE

(2) REVISED PER ADDENDUM No. 2 DATED APRIL 29, 2011

TRAFFIC HANDLING PLAN

NO SCALE

TH-41

REVISED BY | DATE REVISED | CALCULATED-DESIGNED BY | CHECKED BY | CONSULTANT FUNCTIONAL SUPERVISOR CAROLYN DAVIS

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 29-APR-2011 | TIME PLOTTED => 09:42

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	But	99	R32.4/R33.3	374	473

REGISTERED CIVIL ENGINEER 2/11/10 DATE

6-7-10
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Tim Osterkamp No. 46783 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA

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QUINCY ENGINEERING, INC
3247 Ramos Circle
Sacramento, CA 95827 - 2501

BUTTE COUNTY ASSOCIATION OF GOVERNMENTS
2580 SIERRA SUNRISE TERRACE, SUITE 100
CHICO, CA 95928

HYDROLOGIC SUMMARY

Drainage area: 75.56 Square Miles

	Design Flood	Base Flood	Overtopping Flood
Frequency (years)	50	100	>100
Discharge (cubic feet per second)	-	1731	>1731
Water Surface Elev at Bridge (ft)	-	215.13	-

Flood plain data based upon information available when the plans were prepared and are shown to meet Federal requirments.The accuracy of said information is not warranted by the County and interested or affected parties should made their own investigations.

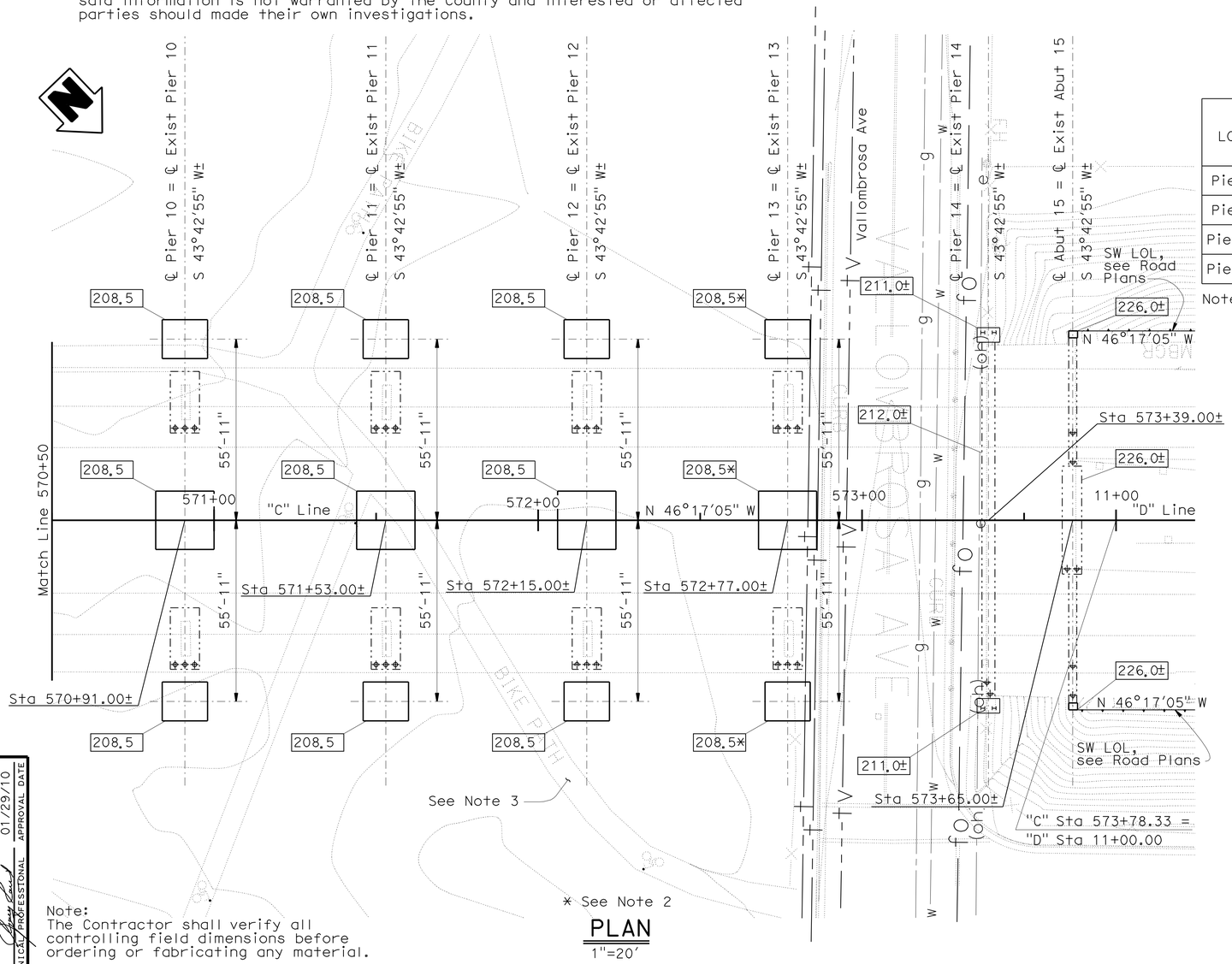
Notes:

1. Match existing front face of abutments and ℄ of piers.
2. Overexcavate to elevation 207.0 and backfill with compacted Class 2 Aggregate Base to bottom of footing elevation. For limits of special earthwork, see "Piers 3-13 Layout" sheet.
3. Bike paths closed to pedestrian traffic during construction.

Legend:

- Indicates bottom of footing
- Indicates HP 14x89 steel piles
- Indicates existing piles, not all piles shown
- (oh) Electric Utility (Existing)
- W Water Utility (Existing)
- g Gas Utility (Existing)

2



PLAN
1"=20'

Note:
The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

GEOTECHNICAL PROFESSIONAL APPROVAL DATE 01/29/10

LOAD AND RESISTANCE FACTOR DESIGN PILE DATA TABLE

LOCATION	PILE TYPE	NOMINAL RESISTANCE		DESIGN TIP ELEVATION	SPECIFIED TIP ELEVATION	NOMINAL DRIVING RESISTANCE kips
		COMPRESSION	TENSION			
Pier 2 (L)	HP 14x89	250 kips	135 kips	170.0(1), 177.0(2), 187.0(3)	170.0	253.0
Pier 2 (R)	HP 14x89	250 kips	130 kips	170.0(1), 178.0(2), 187.0(3)	170.0	253.0
Pier 14 (L)	HP 14x89	250 kips	110 kips	160.5(1), 166.5(2), 186.5(3)	160.5	253.0
Pier 14 (R)	HP 14x89	250 kips	110 kips	160.5(1), 166.5(2), 186.5(3)	160.5	253.0

Note: Design Tip Elevation is controlled by the following demands:
(1) Compression, (2) Tension, (3) Lateral Loads
Support locations denoted as follows:
(L) Left Structure, (M) Median Structure, (R) Right Structure

LOAD AND RESISTANCE FACTOR DESIGN SPREAD FOOTING DATA TABLE

LOCATION	NET PERMISSABLE CONTACT STRESS (SERVICE) (SETTLEMENT) ksf	FACTORED GROSS NOMINAL BEARING RESISTANCE (RESISTANCE FACTOR=0.45) (STRENGTH) ksf	FACTORED GROSS NOMINAL BEARING RESISTANCE (RESISTANCE FACTOR=1.00) (EXTREME EVENT) ksf
Pier 3	9.0(L), 7.0(M), 8.0(R)	18.0(L), 18.0(M), 18.0(R)	32.0(L), 32.0(M), 32.0(R)
Pier 4	9.0(L), 7.0(M), 9.0(R)	9.0(L), 9.0(M), 9.0(R)	22.0(L), 22.0(M), 22.0(R)
Pier 5	9.0(L), 7.0(M), 9.0(R)	9.0(L), 9.0(M), 9.0(R)	22.0(L), 22.0(M), 22.0(R)
Pier 6	6.0(L), 5.0(M), 6.0(R)	7.0(L), 7.0(M), 7.0(R)	15.0(L), 15.0(M), 15.0(R)
Pier 7	6.0(L), 5.0(M), 6.0(R)	7.0(L), 7.0(M), 7.0(R)	15.0(L), 15.0(M), 15.0(R)
Pier 8	8.0(L), 5.5(M), 8.0(R)	7.0(L), 7.0(M), 7.0(R)	15.0(L), 15.0(M), 15.0(R)
Pier 9	8.0(L), 5.5(M), 8.0(R)	7.0(L), 7.0(M), 7.0(R)	15.0(L), 15.0(M), 15.0(R)
Pier 10	8.0(L), 5.5(M), 8.0(R)	7.0(L), 7.0(M), 7.0(R)	15.0(L), 15.0(M), 15.0(R)
Pier 11	8.0(L), 5.5(M), 8.0(R)	7.0(L), 7.0(M), 7.0(R)	15.0(L), 15.0(M), 15.0(R)
Pier 12	8.0(L), 5.5(M), 8.0(R)	6.5(L), 6.5(M), 6.5(R)	14.0(L), 14.0(M), 14.0(R)
Pier 13	9.0(L), 6.0(M), 9.0(R)	8.0(L), 8.0(M), 8.0(R)	18.0(L), 18.0(M), 18.0(R)

Note: Support locations denoted as follows:
(L) Left Structure, (M) Median Structure, (R) Right Structure

BENCH MARK DATA

No.	NORTHING	EASTING	ELEVATION	LINE	STATION	OFFSET	DESCRIPTION
100	2393770.285	6612122.734	214.73	"C"	554+36.50	572.35'Lt	Nail & Shiner
101	2394442.268	6612878.992	219.75	"C"	553+54.28	435.98'Rt	Nail & Shiner
102	2394277.928	6612191.907	216.79	"C"	557+37.32	157.63'Lt	Nail & Shiner

2 **REVISED PER ADDENDUM No. 2 DATED APRIL 29, 2011**

Eric D. Fredrickson
DESIGN OVERSIGHT Eric D. Fredrickson
2-17-10
SIGN OFF DATE

SCALE: AS SHOWN	VERT.DATUM NGVD 1929	HORZ.DATUM NAD 1983	
PHOTOGRAMMETRY AS OF: 2/12/02	ALIGNMENT TIES A. Villagran		
SURVEYED BY A. Villagran	DRAFTED BY R. Monsour		
FIELD CHECKED BY J. Cooke	CHECKED BY J. Brainard		

	BY	CHECKED
DESIGN	M. Katt	V. Doctolero/ E. Dahl
DETAILS	J. Bland	M. Ouest
QUANTITIES	M. Katt	M. O'Hagan

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

Tim Osterkamp
PROJECT ENGINEER

BRIDGE NO. 12-0151
POST MILE 32.61

BIDWELL PARK VIADUCT (WIDEN)
FOUNDATION PLAN No. 2

CU 03-199
EA 3A0421

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 9/18/08 8/17/09 11/18/09 1/20/10 2/1/10 2/11/10

SHEET 5 OF 75

FOUNDATION PLAN SHEET (ENGLISH) (REV. 06-01-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

FILE => 12-0151ri-e-fp102.add

USERNAME => trmikesl DATE PLOTTED => 29-APR-2011 TIME PLOTTED => 09:59