Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	1	654

STATE OF CALIFORNIA

2 ~~SARRA-Q101(153)N~~ ~~ACNH-Q101(164)N~~

DEPARTMENT OF TRANSPORTATION

SARRA-Q101(153)N

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN THE CITY AND COUNTY OF SAN FRANCISCO FROM 1.3 MILE TO 0.3 MILE SOUTH OF ROUTE 101/1 SEPARATION

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

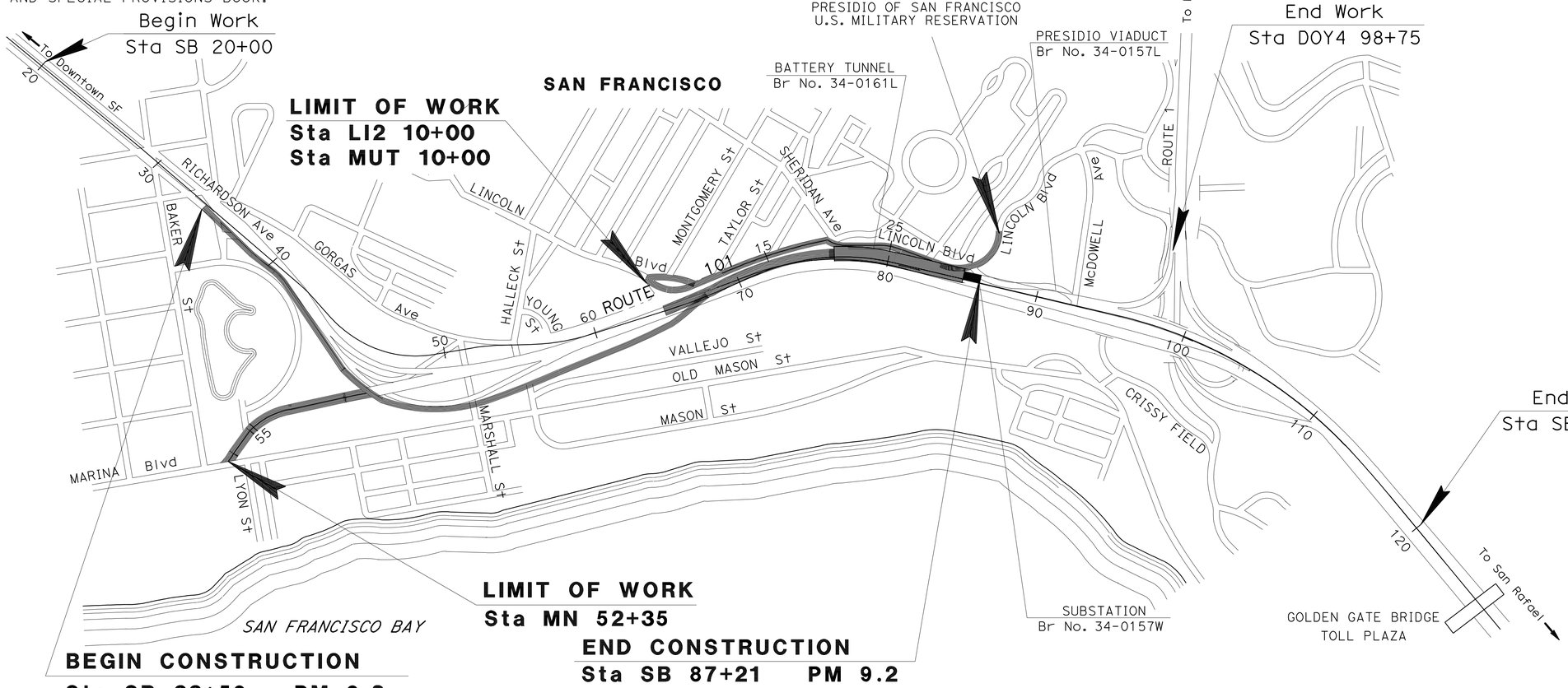
INDEX OF PLANS

SHEET No.	DESCRIPTION
1	TITLE AND LOCATION MAP
2-5	TYPICAL CROSS SECTIONS
6-9	LAYOUT AND CONTOUR GRADING
10-29	PROFILE AND SUPERELEVATION DIAGRAMS
30-38	CONSTRUCTION DETAILS
39-44	EROSION CONTROL PLAN, DETAILS AND QUANTITIES
45-86	DRAINAGE PLAN, PROFILES, DETAILS AND QUANTITIES
87-93	UTILITY PLAN, DETAILS AND QUANTITIES
94-104	CONSTRUCTION AREA SIGNS
105-122	STAGE CONSTRUCTION AND TRAFFIC HANDLING PLANS
123-127	DETOUR LAYOUT AND CONTOUR GRADING PLAN
128-140	PAVEMENT DELINEATION PLAN AND QUANTITIES
141-148	SIGN PLAN, DETAILS AND QUANTITIES
149-151	SUMMARY OF QUANTITIES
152-155	RETAINING WALL NO. 3, 4 AND 7A PLAN, TYPICAL, DETAILS, QUANTITIES
156-162	DETOUR ROAD LOG OF TEST BORINGS
163-359	ELECTRICAL PLANS
360-412	REVISED AND NEW STANDARD PLANS

STRUCTURE PLANS

413-416	MARINA VIADUCT Br No. 34-0014
417-436	BATTERY SUBSTATION (BRIDGE) Br No. 34-0157W
437-508	SOUTHBOUND BATTERY TUNNEL Br No. 34-0161L
509-545	RETAINING WALL A AND B Br No. 34-0161RL
546-568	SOUTHBOUND BATTERY TUNNEL SYSTEMS Br No. 34-0161L
569-633	RETAINING WALL No. 8 Br No. 34E-0014
634-654	BATTERY SUBSTATION Br No. 34-0157W

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



BEGIN CONSTRUCTION

Sta SB 33+58 PM 8.2

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

NO SCALE

2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

LOCATION MAP

Caltrans

DEFFERED APPROVALS

1. FIRE ALARM
2. FIRE SPRINKLER SYSTEM
3. STANDPIPE SYSTEM

CALIFORNIA STATE FIRE MARSHAL APPROVED

Approval of this plan does not authorize or approve any omission or deviation from applicable regulations. Final approval is subject to field inspection. One set of approved plans shall be available on the project site at all times.

Reviewed by: STEPHEN GUARINO

Approval date: 12-14-09

PROJECT ENGINEER REGISTERED CIVIL ENGINEER — 8-10-09 DATE

REGISTERED PROFESSIONAL ENGINEER — Hossein Khodabakhsh — No. 71650 — Exp. 12-31-09 — CIVIL — STATE OF CALIFORNIA

December 14, 2009

PLANS APPROVAL DATE

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: NIDAL TUQAN

DESIGN ENGINEER: ABOLFAZL EMADZADEH

LAST REVISION 12-09-09

DATE PLOTTED => 21-JAN-2010

TIME PLOTTED => 07:40

CONTRACT No. 04-163744

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	34	654

REGISTERED CIVIL ENGINEER 8-10-09 DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hossein Khodabakhsh No. 71650 Exp. 12-31-09 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.

CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: STEPHEN GUARINO
Approval date: 12-14-09

TEMPORARY FENCE (TYPE CL-6)

AREA	LF
C	2079
D	1110
H	2047
I	2603
J	3704
A	1755
F, G, L	1497
N	600
O	522
B	1170
K	501
M	660
P	1769
E	298
TOTAL	20315

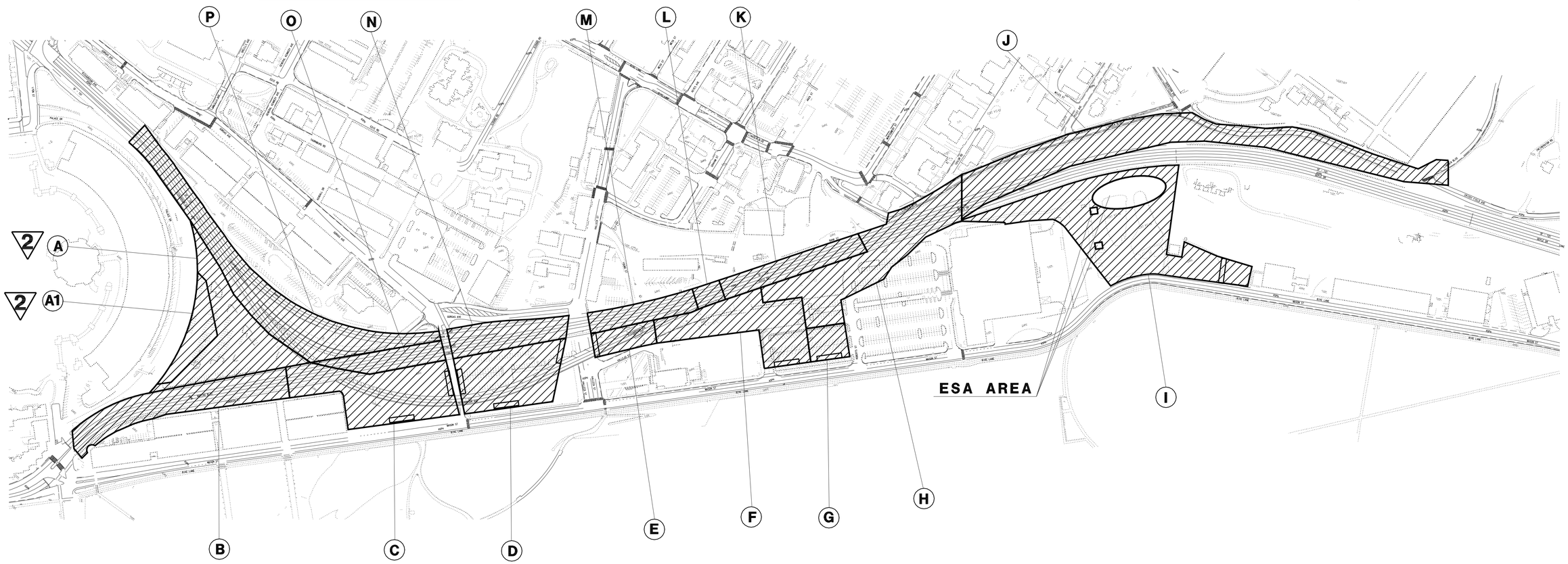
LEGEND:

AREA FOR CONTRACTOR'S USE

APPROXIMATE LOCATION FOR CHAIN LINK GATE

NOTE:

1. FOR AVAILABILITY AND RESTRICTIONS, SEE "AREA FOR CONTRACTOR'S USE" IN THE CONTRACT SPECIAL PROVISIONS.



2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

CONSTRUCTION DETAILS
AREA FOR CONTRACTOR'S USE
NO SCALE

C-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans DESIGN
FUNCTIONAL SUPERVISOR ABOLFAZL EMADZADEH
CALCULATED-DESIGNED BY GINA CHOI
CHECKED BY ROGER DAYOAN
REVISED BY GC
DATE REVISED 8/01/09

LAST REVISION 11-16-09 DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 07:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	98	654

REGISTERED CIVIL ENGINEER 8-11-09 DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Jerilyn L. Struven No. 49964 Exp. 12-31-10 CIVIL STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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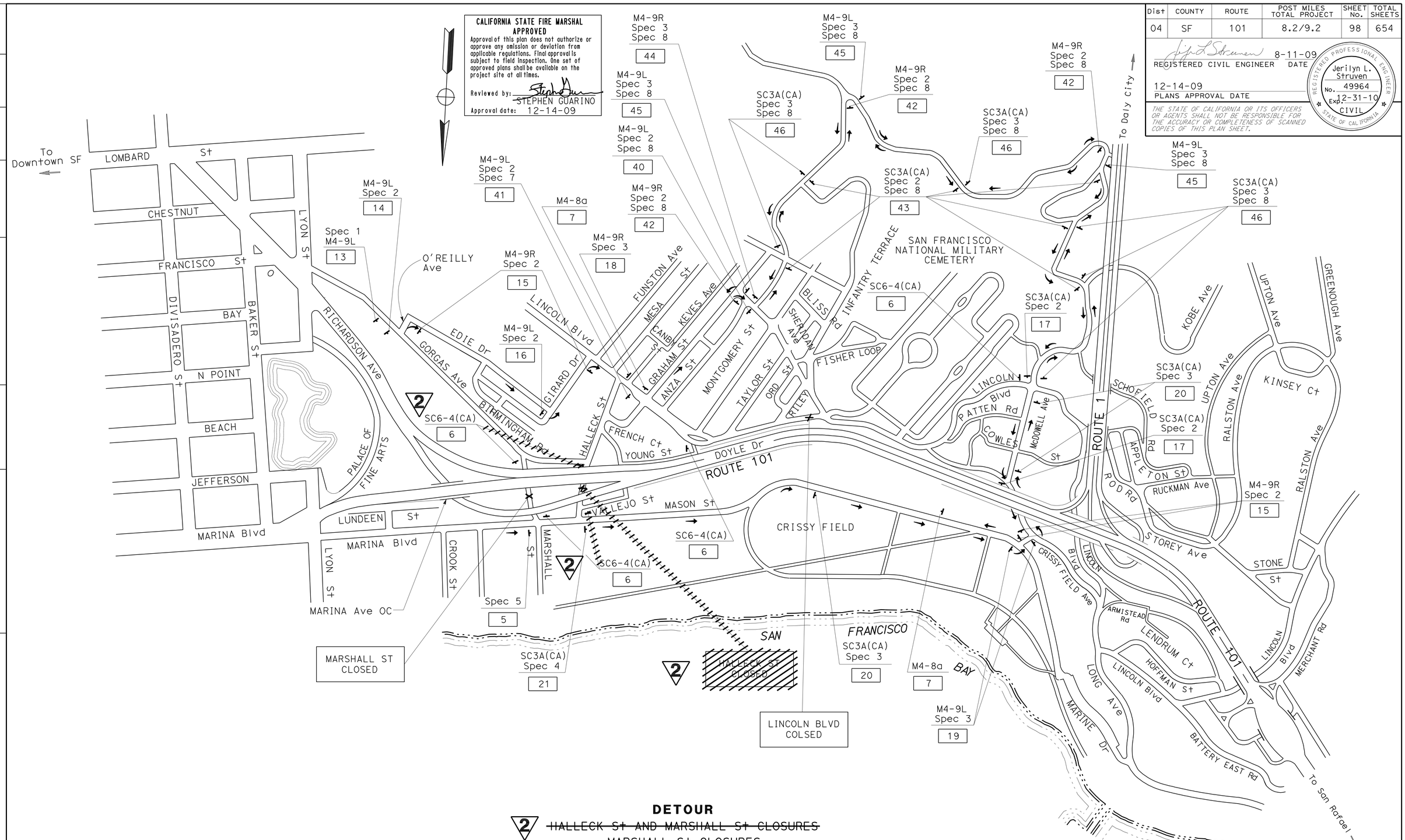
Reviewed by: STEPHEN GUARINO
Approval date: 12-14-09



DETOUR

2 ~~HALLECK St AND MARSHALL St CLOSURES~~
MARSHALL St CLOSURES

2 **REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010**

FOR NOTES, ABBREVIATIONS AND LEGEND, SEE SHEET CS-1

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGN WORK ONLY

CONSTRUCTION AREA SIGNS
NO SCALE

CS-5

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
TRAFFIC

FUNCTIONAL SUPERVISOR: ROLAND AU-YEUNG
CALCULATED-DESIGNED BY: ULICES VEGA
CHECKED BY: LILY TING
REVISED BY: UV
DATE REVISED: 8/01/09

LAST REVISION: DATE PLOTTED => 21-JAN-2010 11-24-09 TIME PLOTTED => 07:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	121	654

REGISTERED CIVIL ENGINEER 8-10-09 DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Hossein Khodabakhsh No. 71650 Exp. 12-31-09 CIVIL STATE OF CALIFORNIA

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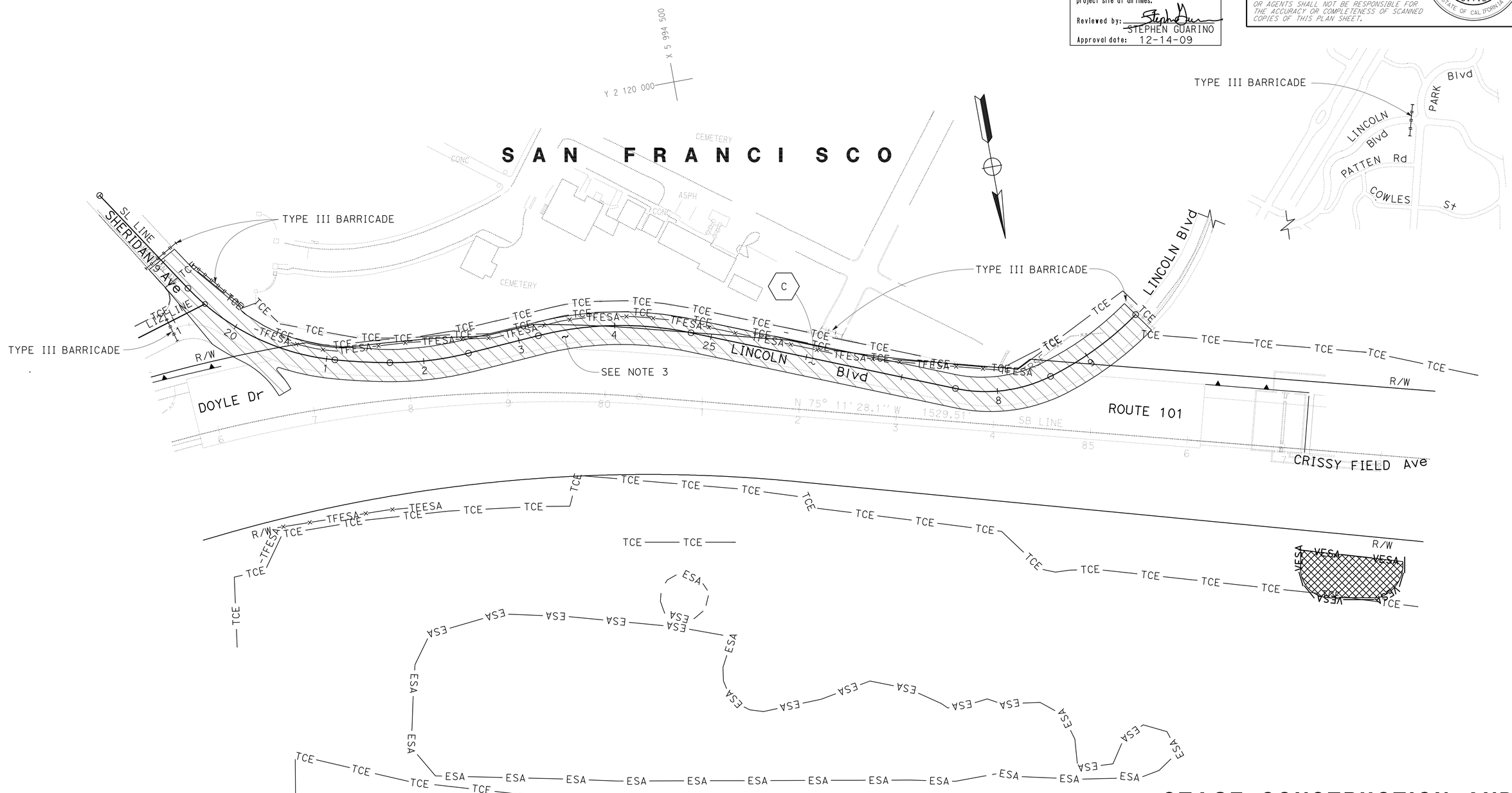
Reviewed by: STEPHEN GUARINO
Approval date: 12-14-09

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



STAGE CONSTRUCTION AND TRAFFIC HANDLING PLAN

~~STAGE 3~~
STAGE 1
SCALE: 1" = 50'

2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

FOR NOTES, SEE SHEET SC-6

FOR ABBREVIATIONS AND LEGEND, SEE SHEET SC-1

THIS PLAN ACCURATE FOR STAGE CONSTRUCTION WORK ONLY

SC-17

REVISED BY	DATE REVISED
RA	8/01/09

ROMY ACOB — GEORGE GIN — CALCULATED-DESIGNED BY — CHECKED BY

FUNCTIONAL SUPERVISOR: ABOLFAZL EMADZADEH

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — DESIGN — Caltrans

LAST REVISION 09-14-09 — DATE PLOTTED => 21-JAN-2010 — TIME PLOTTED => 07:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	197	654

Lionel J. Sudds 10-8-09
REGISTERED ELECTRICAL ENGINEER DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Lionel J. Sudds No. 15201 Exp 6-30-10 ELECT STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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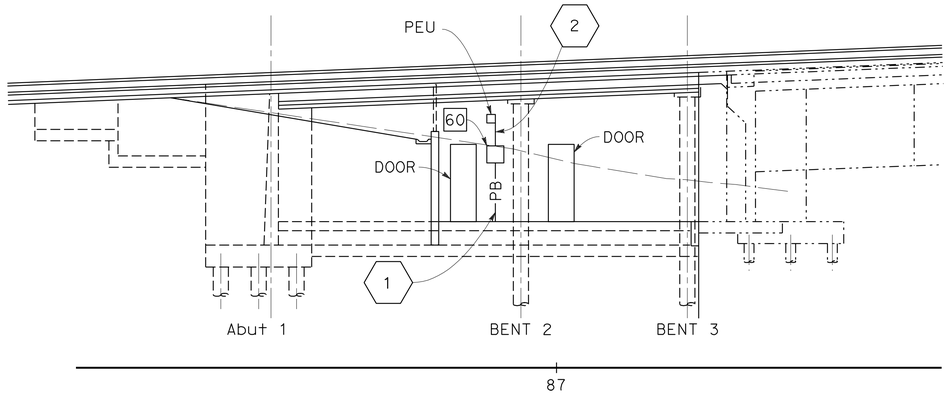
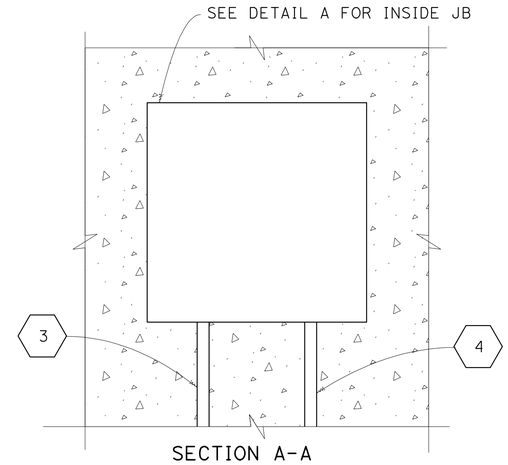
Reviewed by: STEPHEN GUARINO
Approval date: 12-14-09

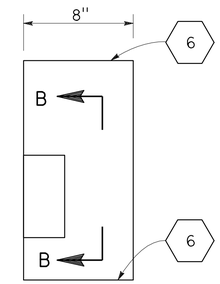
2



ELEVATION



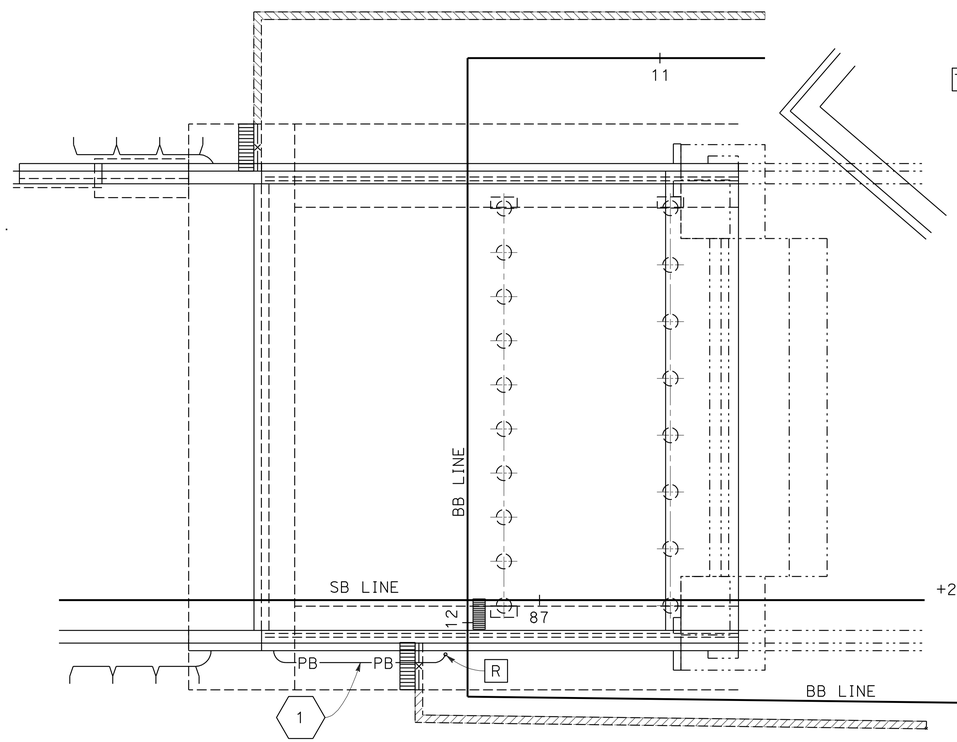
SECTION A-A



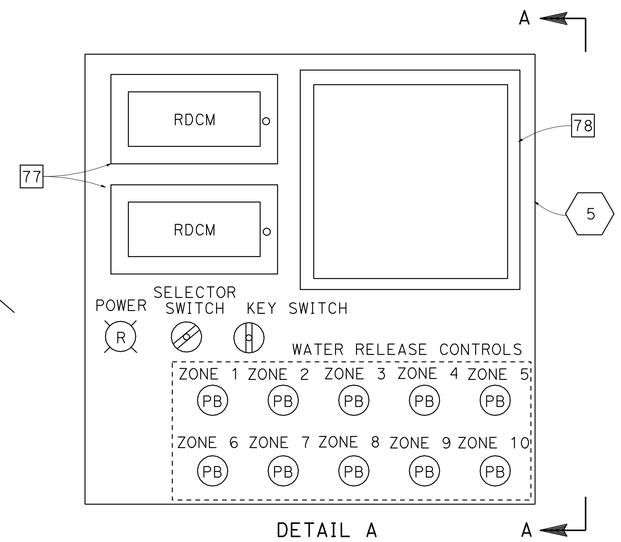
SECTION A-A

GENERAL NOTES: (THIS SHEET ONLY)

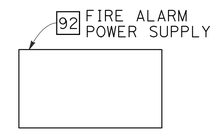
1. THE CONTRACTOR SHALL INSTALL PROVIDE AND A TUBULAR KEY SWITCH, MAINTAINED, SPDT WITH KEYS; TWO (2) POSITION SELECTOR SWITCH; RED LAMP; AND 10 PUSH BUTTONS N.O. ON THE PANEL SHOWN ON DETAIL A.
2. THE RELAYS SWR1, SWR2, AND SWR3 SHALL BE POWER CONTROL RELAYS; AND THE CONTRACTOR SHALL PROVIDE AND INSTALL THE RELAYS AS SHOWN ON THE PLANS.
3. THE RELAY KEY SHALL BE SCADA CONTROL AND INDICATION RELAY; AND THE CONTRACTOR SHALL PROVIDE AND INSTALL THE RELAY AS SHOWN ON THE PLANS.
4. 24 INSIDE JUNCTION BOX SHOWN IN SECTION A-A.



PLAN



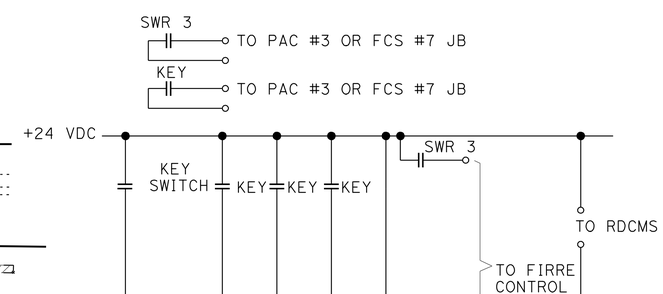
DETAIL A



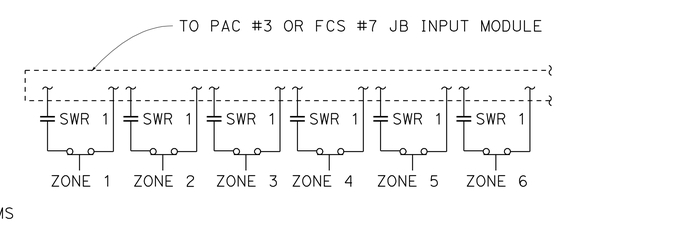
SECTION B-B

NOTES: (THIS SHEET ONLY)

1. INSTALL 4'' C, 1-4#14 CONDUCTOR CABLE.
2. INSTALL ¾'' C, 1-4#14 CONDUCTOR CABLE.
3. INSTALL 4'' C, 1-ETHERNET CABLE AND 2-RS-485 CABLES.
4. INSTALL 4'' C, 3#12 CONDUCTORS.
5. INSTALL BACK PANEL.
6. INSTALL 8'' HANGER BETWEEN BACK PANELS.



WIRING DIAGRAM OF FIRE



2 **REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010**

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

BATTERY SUBSTATION AND TUNNEL WORK

GENERAL PLAN

NO SCALE

E-35

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ELECTRICAL
FUNCTIONAL SUPERVISOR: BEHZAD GOLEMOHAMMADI
CALCULATED-DESIGNED BY: LIONEL J. SUDDS
CHECKED BY: LIONEL J. SUDDS
REVISED BY: LS
DATE REVISED: 8/01/09

LAST REVISION DATE PLOTTED => 21-JAN-2010
12-15-09 TIME PLOTTED => 07:41

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	198	654

REGISTERED ELECTRICAL ENGINEER DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Lionel J. Sudds No. 15201 Exp 6-30-10 ELECT STATE OF CALIFORNIA

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CALIFORNIA STATE FIRE MARSHAL APPROVED
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Reviewed by: STEPHEN GUARINO
Approval date: 12-14-09

208/120 V PANEL

POWER CKT No.	POLE No.	WIRE No.	TRIP RATING	LOAD	Max LOAD	CONDUCTORS
1	3	4	300 A	MAIN CIRCUIT BREAKER	100 kVA	5#350 KCMIL
2	1	2	15 A	SUBSTATION FIRE ALARM PANEL	0.10 kVA	3#12
3	3	4	175 A	TUNNEL CONTROL & T0.5 ROOM PANEL	50 kVA	5#3/0
4	1	2	60 A	INVERTER	5.70 kVA	3#6
5	1	2	15 A	RECEPTACLE	1.44 kVA	3#12
6	1	2	20 A	SUBSTATION ROOM LIGHTING	1.944 kVA	3#12
7	1	2	15 A	TUNNEL FIRE ALARM CONTROL PANEL FOR SOUTHBOUND TUNNEL	0.384 kVA	3#12
8	1	2	15 A	TUNNEL FIRE ALARM CONTROL PANEL FOR NORTHBOUND TUNNEL	0.384 kVA	3#12
9	1	2	20 A	RACK-MOUNTED INVERTER	2.00 kVA	3#12
10	3	3	25 A	SUBSTATION ROOM FAN #1	3.00 HP	4#10
11	3	3	25 A	SUBSTATION ROOM FAN #2	3.00 HP	4#10
12	1	2	15 A	EXIT LIGHTS	0.10 kVA	3#12

T.O.S. UPS PANEL

POWER CKT No.	POLE No.	WIRE No.	TRIP RATING	LOAD	Max LOAD	CONDUCTORS
1	2	3	70 A	MAIN CIRCUIT BREAKER	12.00 kVA	4#2
2	1	2	15 A	BASE CABINET #1	1.67 kVA	3#12
3	1	2	15 A	BASE CABINET #2	1.67 kVA	3#12
4	1	2	15 A	T.O.S CABINET #1	1.67 kVA	3#12
5	1	2	15 A	T.O.S CABINET #2	1.67 kVA	3#12
6	1	2	15 A	T.O.S CABINET #3	1.67 kVA	3#12
7	1	2	15 A	TRAFFIC CONTROL CABINET #1	1.67 kVA	3#12
8	1	2	15 A	TRAFFIC CONTROL CABINET #2	1,67 kVA	3#12

TUNNEL CONTROL AND T.O.S. ROOM PANEL

POWER CKT No.	POLE No.	WIRE No.	TRIP RATING	LOAD	Max LOAD	CONDUCTORS
1	3	4	175 A	MAIN CIRCUIT BREAKER	50 kVA	5#3/0
2	2	3	70 A	TUNNEL CONTROL UPS	13.4 kVA	4#2
3	2	3	70 A	T.O.S UPS	13.4 kVA	4#2
4	1	2	15 A	EXIT LIGHTS	0.10 kVA	3#12
5	1	2	15 A	RECEPTACLES	1.44 kVA	3#12
6	1	2	15 A	TUNNEL CONTROL & T.O.S ROOM	1.296 kVA	3#12
7	3	3	15 A	TUNNEL CONTROL & T.O.S ROOM	1-1/4 HP	4#10

TUNNEL CONTROL UPS PANEL

POWER CKT No.	POLE No.	WIRE No.	TRIP RATING	LOAD	Max LOAD	CONDUCTORS
1	2	3	70 A	MAIN CIRCUIT BREAKER	12.00 kVA	4#2
2	1	2	15 A	19'' COMPUTER CABIINET FOR	1.67 kVA	3#12
3	1	2	15 A	19'' COMPUTER CABINET FOR TC ROOM CABINET #2	1.67 kVA	3#12
4	1	2	15 A	19'' COMPUTER CABINET FOR TC ROOM CABINET #3	1.67 kVA	3#12
5	1	2	15 A	19'' COMPUTER CABINET FOR TC ROOM CABINET #4	1.67 kVA	3#12
6	1	2	15 A	19'' COMPUTER CABINET FOR FO CABINET FOR T.O.S	1.67 kVA	3#12

480 V PANEL

POWER CKT No.	POLE No.	WIRE No.	TRIP RATING	LOAD	Max LOAD	CONDUCTORS
1	3	4	200 A	MAIN CIRCUIT BREAKER	133 kVA	5#300 KCMIL
2	2	2	50 A	TRAILER	20 kVA	3#1

SL PANEL

POWER CKT No.	POLE No.	WIRE No.	TRIP RATING	LOAD	Max LOAD	CONDUCTORS
1	3	4	100 A	MAIN CIRCUIT BREAKER	66.5 kVA	5#300 KCMIL
2	3	3	20 A	T.O.S POWER	13.3 kVA	4#4 in CONDUIT #84

2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

THIS PLAN IS ACCURATE FOR ELECTRICAL WORK ONLY

BATTERY SUBSTATION AND TUNNEL WORK (PANELBOARDS)

E-36

REVISED BY	DATE REVISED
LS	8/01/09

LIONEL J. SUDDS — LIONEL J. SUDDS
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR: BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL

LAST REVISION 12-07-09 | DATE PLOTTED => 21-JAN-2010 | TIME PLOTTED => 07:41

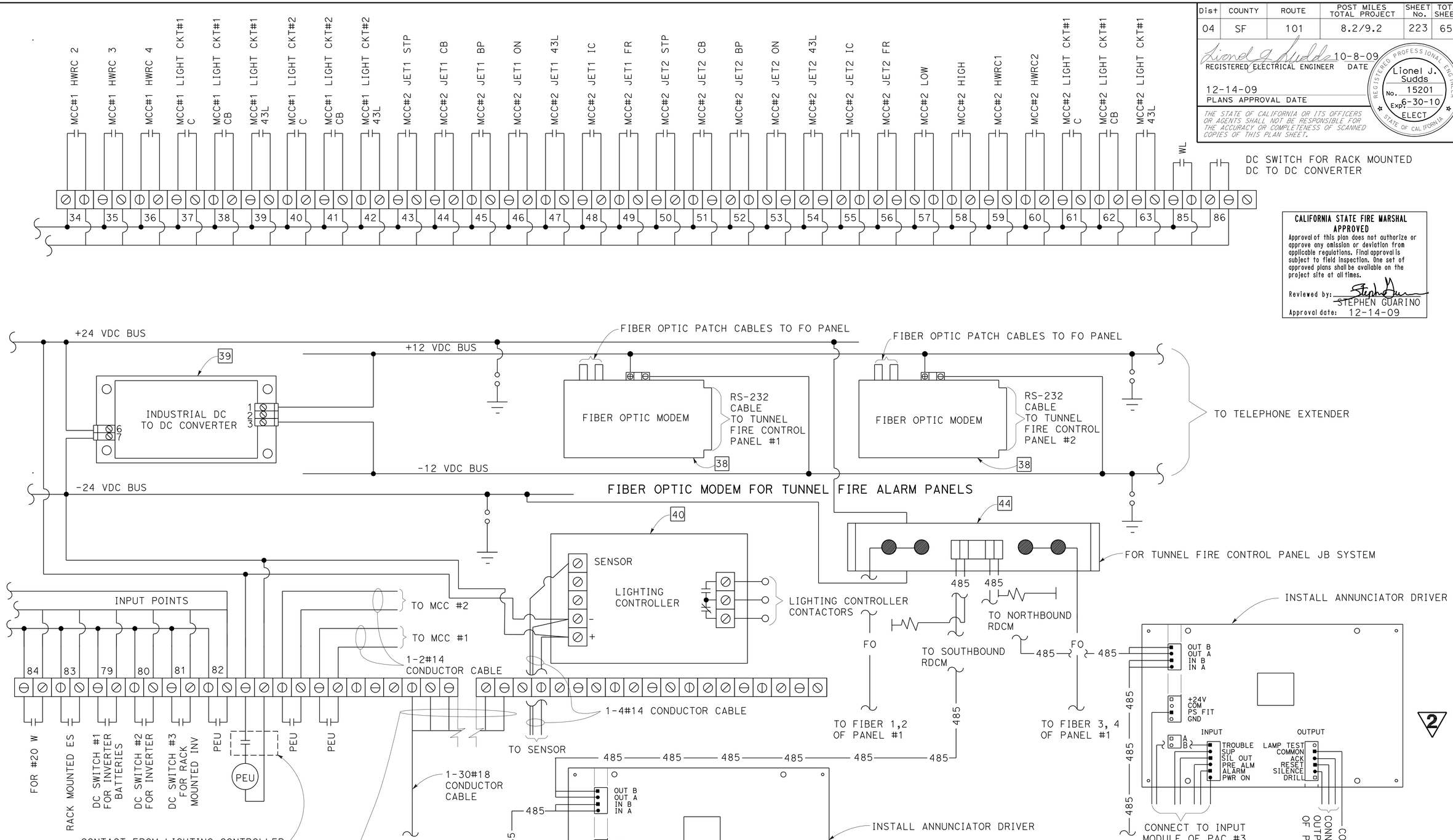
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	223	654

REGISTERED ELECTRICAL ENGINEER 10-8-09 DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Lionel J. Sudds No. 15201 Exp. 6-30-10 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.



CALIFORNIA STATE FIRE MARSHAL APPROVED

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Reviewed by: STEPHEN GUARINO

Approval date: 12-14-09

2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

BATTERY SUBSTATION
PAC #3 LAYOUT, AND WIRING DIAGRAM

NO SCALE

E-61

LS	8/01/09		
REVISED BY	DATE REVISED		
LIONEL J. SUDDS	LIONEL J. SUDDS		
CALCULATED-DESIGNED BY	CHECKED BY		
FUNCTIONAL SUPERVISOR	BEHZAD GOLEMOHAMMADI		
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	ELECTRICAL	Caltrans	

LAST REVISION DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 07:41

10-28-09

BORDER LAST REVISED 4/11/2008 | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | USERNAME => trlenard DGN FILE => 416374ua061.add | CU 04242 | EA 163741

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
04	SF	101	8.2/9.2	272	654

REGISTERED ELECTRICAL ENGINEER 10-8-09 DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER Lionel J. Sudds No. 15201 Exp 6-30-10 ELECT STATE OF CALIFORNIA

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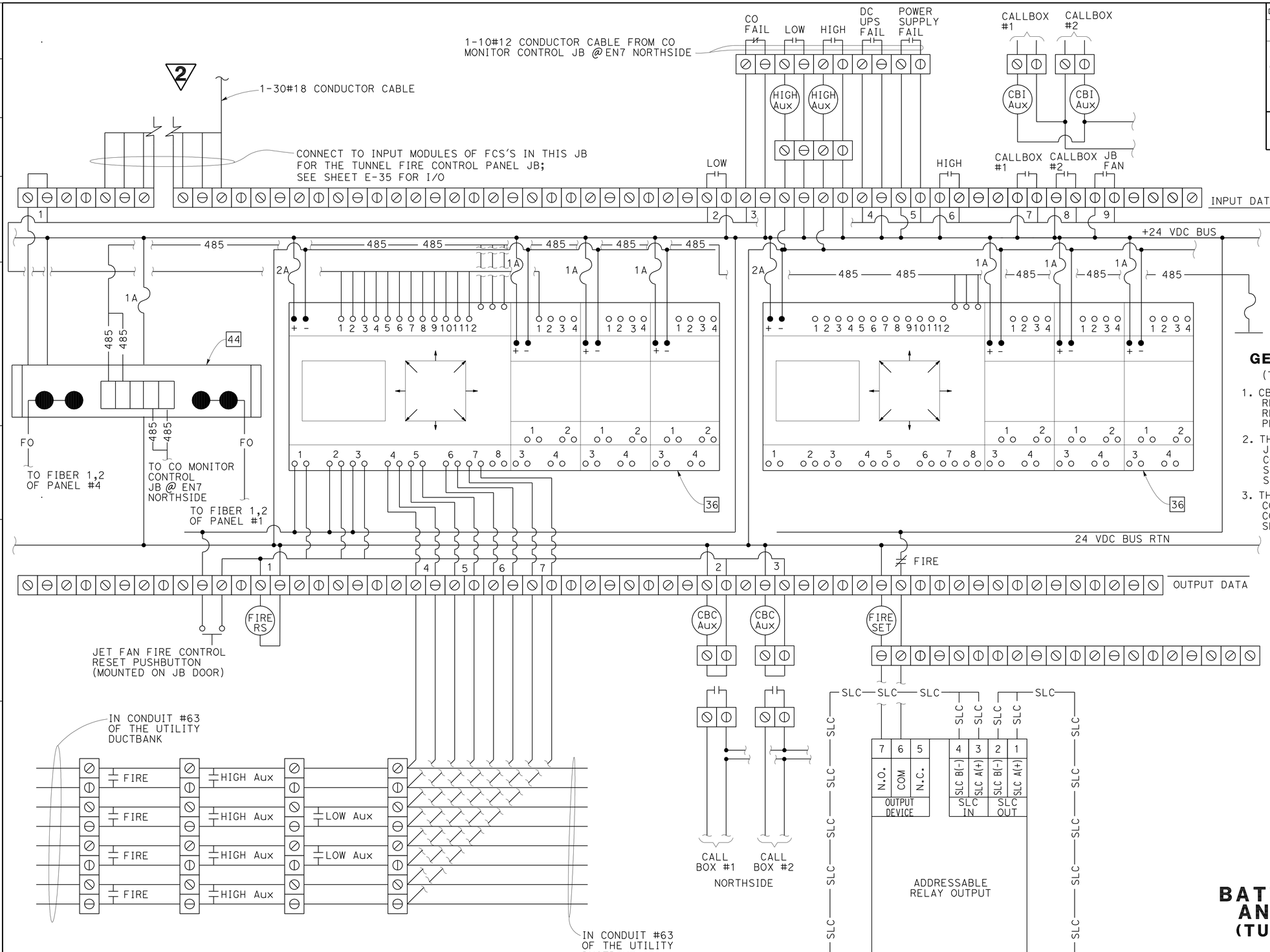
Approval date: 12-14-09



GENERAL NOTES:

(THIS SHEET ONLY)

1. CBI Aux, CBC Aux, HIGH Aux AND LOW Aux RELAYS SHALL BE POWER CONTROL RELAY AS SPECIFIED IN THE SPECIAL PROVISION.
2. THE FIELD CONTROL STATIONS IN THIS JB AS SHOWN ON THIS SHEET SHALL BE CONFIGURED IN ACCORDANCE TO THE SERIAL COMMUNICATION SYSTEM IN THE SPECIAL PROVISION.
3. THE FIRE RELAY SHALL BE A LATCHING POWER CONTROL RELAY AS SPECIFIED IN THE POWER CONTROL RELAY SPECIFICATION IN THE SPECIAL PROVISIONS.

2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

BATTERY SUBSTATION AND TUNNEL WORK (TUNNEL FCS #7 JB AT EN3 NORTHSIDE LAYOUT AND WIRING CONNECTION DIAGRAM)

NO SCALE

E-110

REVISED BY	DATE REVISED
LS	8/01/09

LIONEL J. SUDDS — LIONEL J. SUDDS
CALCULATED-DESIGNED BY — CHECKED BY
FUNCTIONAL SUPERVISOR — BEHZAD GOLEMOHAMMADI

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
ELECTRICAL

LAST REVISION 10-23-09 | DATE PLOTTED => 21-JAN-2010 | TIME PLOTTED => 07:41

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
04	SF	101	8.2/9.2	543	654

REGISTERED CIVIL ENGINEER 8/28/09 DATE

12-14-09
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER KEVIN BARRY CLINCH No. C-48926 Exp. 9/30/10 CIVIL STATE OF CALIFORNIA

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Arup PB Joint Venture
560 Mission Street, Suite 700
San Francisco, CA 94105

SOLDIER PILE SCHEDULE

Piles	Size	Top of Pile Elev	Bottom of Pile Elev	Cut & Remove Elev	Drilled Hole Dia.
PB177	W18x65	118.38	58.97	NA	30
PB178	W18x65	118.38	58.97	NA	30
PB179	W18x65	118.38	58.97	NA	30
PB180	W18x65	118.38	58.97	NA	30
PB181	W18x65	124.33	60.44	NA	30
PB182	W18x65	124.33	60.44	NA	30
PB183	W18x65	124.33	60.44	NA	30
PB184	W18x65	124.33	61.18	NA	30
PB185	W18x119	124.33	61.18	NA	30
PB186	W18x119	124.33	61.18	NA	30
PB187	W18x119	124.33	61.18	NA	30
PB188	W18x119	97.30	61.50	NA	30
PB189	W18x119	97.30	61.50	NA	30
PB190	W18x119	96.30	61.50	NA	30
PB191	W18x119	95.30	61.50	NA	30

LAGGING PANEL SCHEDULE

Between Piles		Top of Wall Elev	Bottom of Timber Lagging Elev	Bottom of Shotcrete Elev	Lagging Size
PB177	PB178	101.70	89.70	74.71	4x12
PB178	PB179	101.70	89.70	74.95	4x12
PB179	PB180	101.70	89.70	75.19	4x12
PB180	PB181	101.70	89.70	75.44	4x12
PB181	PB182	98.20	89.20	75.68	4x12
PB182	PB183	98.20	89.20	75.93	4x12
PB183	PB184	98.00	89.00	76.18	4x12
PB184	PB185	98.00	89.00	76.18	4x12
PB185	PB186	98.00	89.00	76.18	4x12
PB186	PB187	98.00	89.00	76.18	4x12
PB187	PB188	98.00	89.00	77.20	4x12
PB188	PB189	97.00	88.00	77.40	4x12
PB189	PB190	96.00	88.00	77.60	4x12
PB190	PB191	95.00	86.00	77.80	4x12

SOLDIER PILE AT RAKER SCHEDULE

Piles	Size	Top of Drilled Hole Elev	~~Bottom of Pile Elev~~ Top of Pile Elev	~~Top of Pile Elev~~ Bottom of Pile Elev	Drilled Hole Dia.
PR1-PR9	Not Used		2	2	
PR10	W14x99	90.20	93.20	61.28	30
PR11	W14x99	91.40	94.40	62.99	30
PR12	W14x99	91.50	94.50	63.84	30
PR13	W14x99	91.69	94.69	65.56	30
PR14	W14x99	91.78	94.78	66.41	30
PR15	W14x99	91.96	94.96	68.12	30
PR16	W14x99	92.05	95.05	68.98	30
PR17	W14x99	92.23	95.23	70.69	30
PR18	W14x99	92.30	95.30	71.55	30
PR19	W14x99	92.34	95.34	73.26	30
PR20	W14x99	92.36	95.36	74.12	30
PR21	W14x99	92.40	95.40	75.83	30
PR22	W14x99	92.42	95.42	76.68	30
PR23	W14x99	92.46	95.46	78.40	30
PR24	W14x99	92.50	95.50	79.25	30
PR25	W14x99	92.62	95.62	80.62	30
PR26	W14x99	92.68	95.68	80.68	30
PR27	W14x99	92.74	95.74	80.74	30
PR28	W14x99	92.80	95.80	80.80	30
PR29	W14x99	92.86	95.86	80.86	30
PR30	W14x99	92.92	95.92	80.92	30
PR31	W14x99	93.00	96.00	81.00	30
PR32	W14x99	93.05	96.05	81.05	30
PR33	W14x99	93.10	96.10	81.10	30
PR34	W14x99	93.15	96.15	81.15	30
PR35	W14x99	93.20	96.20	81.20	30
PR36	W14x99	93.25	96.25	81.25	30
PR37	W14x99	93.30	96.30	81.30	30
PR38	W14x99	93.35	96.35	81.35	30
PR39	W14x99	93.40	96.40	81.40	30
PR40	W14x99	93.52	96.52	81.52	30
PR41	W14x99	93.64	96.64	81.64	30
PR42	W14x99	93.76	96.76	81.76	30
PR43	W14x99	93.88	96.88	81.88	30
PR44	W14x99	94.00	97.00	82.00	30
PR45	W14x99	94.12	97.12	82.12	30
PR46	W14x99	94.24	97.24	82.24	30
PR47	W14x99	94.30	97.30	82.30	30
PR48	W14x99	94.42	97.42	82.42	30
PR49	W14x99	94.54	97.54	82.54	30
PR50	W14x99	94.66	97.66	82.66	30
PR51	W14x99	94.78	97.78	82.78	30

2 REVISED PER ADDENDUM No. 2 DATED JANUARY 21, 2010

RWAB-ST35

DESIGN	BY K.CLINCH	CHECKED M. YUCEKUL	
DETAILS	BY P.A.TONKIN	CHECKED M. YUCEKUL	
QUANTITIES	BY N.VIVAR	CHECKED J. YANG	

PREPARED FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION

QIYU LIU
PROJECT ENGINEER

BRIDGE NO. 34-0161RL
POST MILES 8.0/9.6

RETAINING WALL A & B
SCHEDULE SHEET NO.6

DESIGN DETAIL SHEET (ENGLISH) (REV. 06-01-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

CU 04
EA 163741

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY) 06/01/09 07/10/09 08/07/09 08/26/09

SHEET 35 OF 37

FILE => 34-0161rl-ab-st035.dgn

USERNAME => trlenord DATE PLOTTED => 21-JAN-2010 TIME PLOTTED => 07:42