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12-25 ROUTE 40 BRIDGES

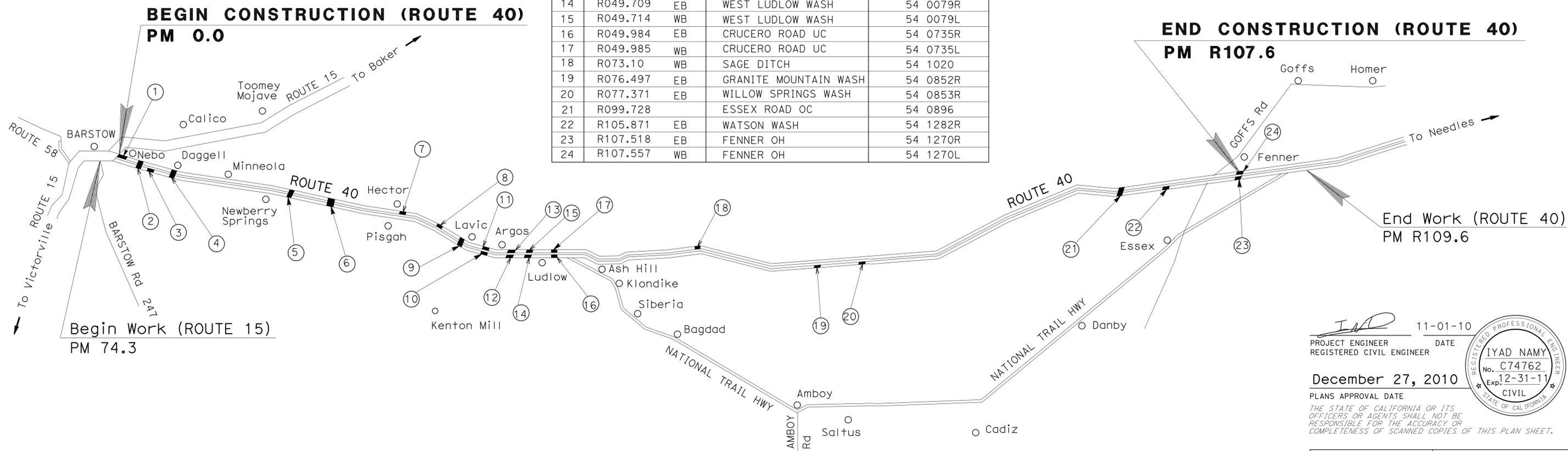
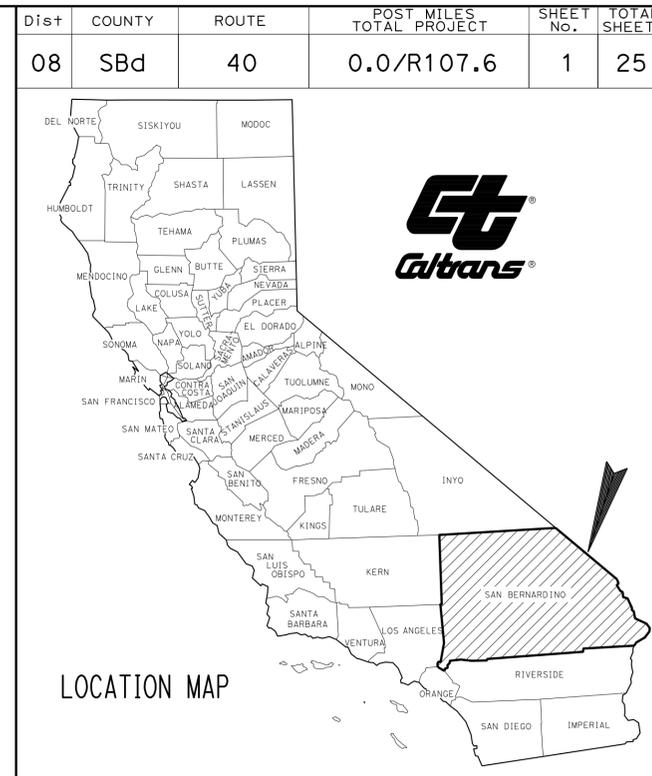
THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS BOOK.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION  
**PROJECT PLANS FOR CONSTRUCTION ON  
STATE HIGHWAY**  
IN SAN BERNARDINO COUNTY  
AT VARIOUS LOCATIONS FROM  
EAST OF INTERSTATE 15/40 SEPARATION  
TO 0.5 MILE EAST OF GOFFS ROAD

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2006

LOCATIONS OF CONSTRUCTION

Loc	POST MILE		NAME OF BRIDGE	BRIDGE NUMBER
1	0.01	WB	W40-S15-CONNECTOR OC	54 1175F
2	R002.667		CAPE GLOUCESTER OC	54 0657
3	R004.708	EB	NEBO STREET UC	54 0662R
4	R007.181		"A" STREET OC	54 0663
5	R020.268		NEWBERRY ROAD OC	54 0709
6	R023.334		FORT CADY ROAD OC	54 0710
7	R032.496	WB	HECTOR ROAD UC	54 0719L
8	R037.266	WB	PISGAH CRATER ROAD UC	54 0691L
9	R041.905		LAVIC ROAD OC	54 0734
10	R043.839	EB	ARGOS WASH	54 0737R
11	R043.850	WB	ARGOS WASH	54 0737L
12	R049.042	EB	SAND HILL WASH	54 0736R
13	R049.046	WB	SAND HILL WASH	54 0736L
14	R049.709	EB	WEST LUDLOW WASH	54 0079R
15	R049.714	WB	WEST LUDLOW WASH	54 0079L
16	R049.984	EB	CRUCERO ROAD UC	54 0735R
17	R049.985	WB	CRUCERO ROAD UC	54 0735L
18	R073.10	WB	SAGE DITCH	54 1020
19	R076.497	EB	GRANITE MOUNTAIN WASH	54 0852R
20	R077.371	EB	WILLOW SPRINGS WASH	54 0853R
21	R099.728		ESSEX ROAD OC	54 0896
22	R105.871	EB	WATSON WASH	54 1282R
23	R107.518	EB	FENNER OH	54 1270R
24	R107.557	WB	FENNER OH	54 1270L



PROJECT MANAGER  
CATALINO PINING

DESIGN ENGINEER  
IYAD NAMY

11-01-10  
DATE  
PROJECT ENGINEER  
REGISTERED CIVIL ENGINEER  
**IYAD NAMY**  
No. C74762  
Exp. 12-31-11  
CIVIL  
STATE OF CALIFORNIA

December 27, 2010  
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.

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

NO SCALE

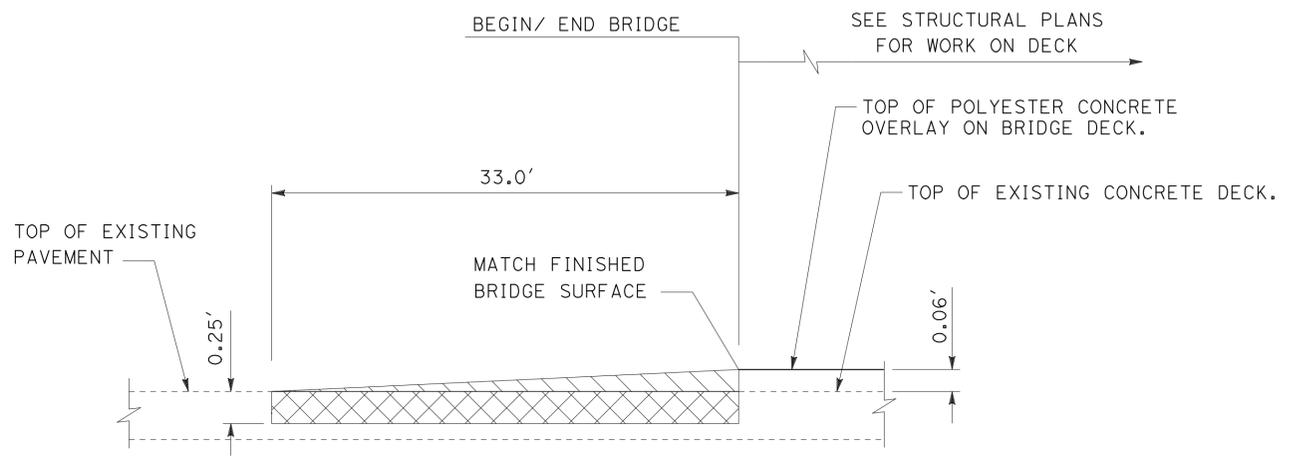
CONTRACT No.	<b>08-OP1504</b>
PROJECT ID	<b>080000554</b>

**LEGEND:**

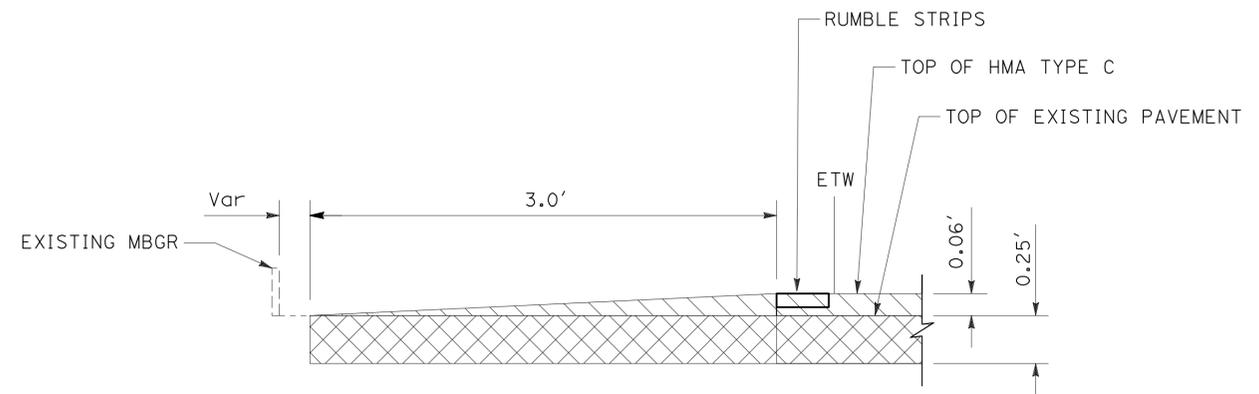
- LIMITS OF WORK
- 0.06' HOT MIX ASPHALT TYPE C
- 0.25' COLD PLANE ASPHALT CONCRETE PAVEMENT, AND REPLACE 0.25' HOT MIX ASPHALT TYPE C
- SHOULDER RUMBLE STRIP (HMA GROUND-IN INDENTATIONS)

**NOTES:**

1. RUMBLE STRIP LOCATIONS DETERMIND BY THE ENGINEER.
2. FOR HOT MIX ASPHALT PAVEMENT CONFORM LOCATIONS, SEE TABLE BELOW.



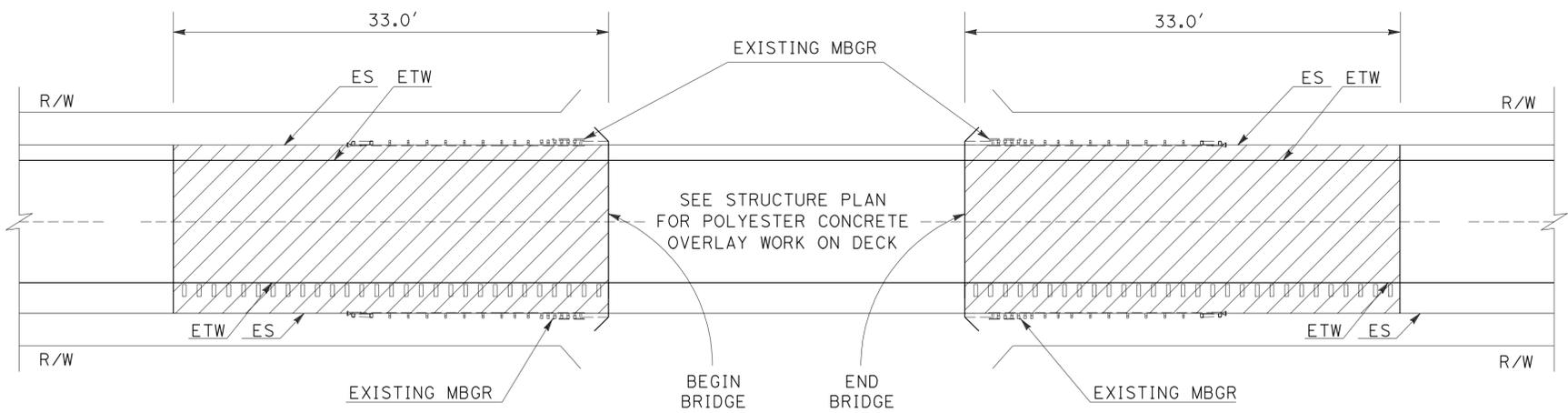
BEGIN AND END OF CONSTRUCTION, BRIDGE DECK  
**PAVEMENT CONFORM (LONGITUDINAL)**  
 (TYPICAL)



BEGIN AND END OF CONSTRUCTION, BRIDGE DECK  
 NEXT TO PAVED SHOULDER  
**PAVEMENT CONFORM (TRANSVERSE)**  
 (TYPICAL)

**LOCATIONS TABLE**

Loc	POST MILE (R+e 40)		NAME OF BRIDGE	BRIDGE NUMBER	BRIDGE WIDTH (FT)
3	R004.708	EB	NEBO STREET UC	54 0662R	42.0
4	R007.181		"A" STREET OC	54 0663	34.0
7	R032.496	WB	HECTOR ROAD UC	54 0719L	42.0
8	R037.266	WB	PISGAH CRATER ROAD UC	54 0691L	42.0
9	R041.905		LAVIC ROAD OC	54 0734	34.0
10	R043.839	EB	ARGOS WASH	54 0737R	42.0
11	R043.850	WB	ARGOS WASH	54 0737L	42.0
12	R049.042	EB	SAND HILL WASH	54 0736R	42.0
13	R049.046	WB	SAND HILL WASH	54 0736L	42.0
14	R049.709	EB	WEST LUDLOW WASH	54 0079R	45.0
15	R049.714	WB	WEST LUDLOW WASH	54 0079L	54.0
16	R049.984	EB	CRUCERO ROAD UC	54 0735R	42.0
17	R049.985	WB	CRUCERO ROAD UC	54 0735L	42.0
21	R099.728		ESSEX ROAD OC	54 0896	42.0



**LIMITS OF WORK FOR HMA PAVEMENT CONFORM,  
 FOR LOCATIONS SEE TABLE**  
 (TYPICAL)

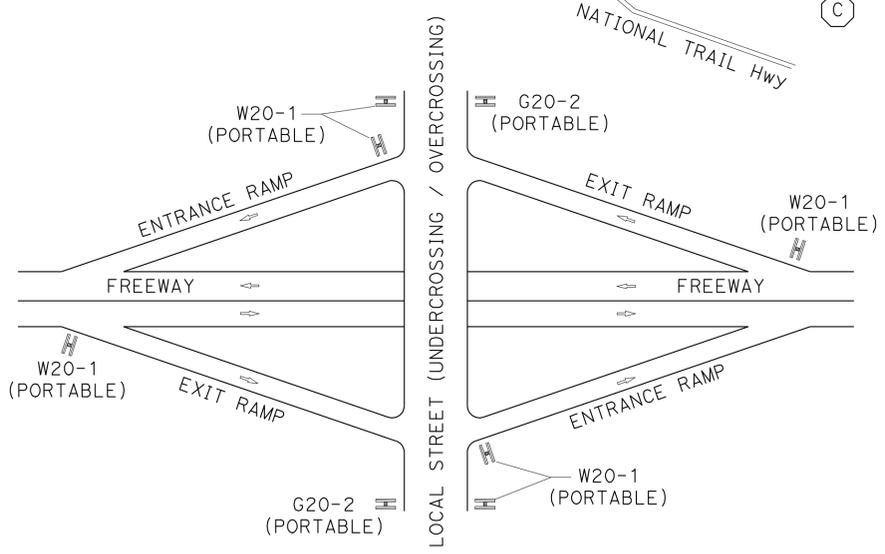
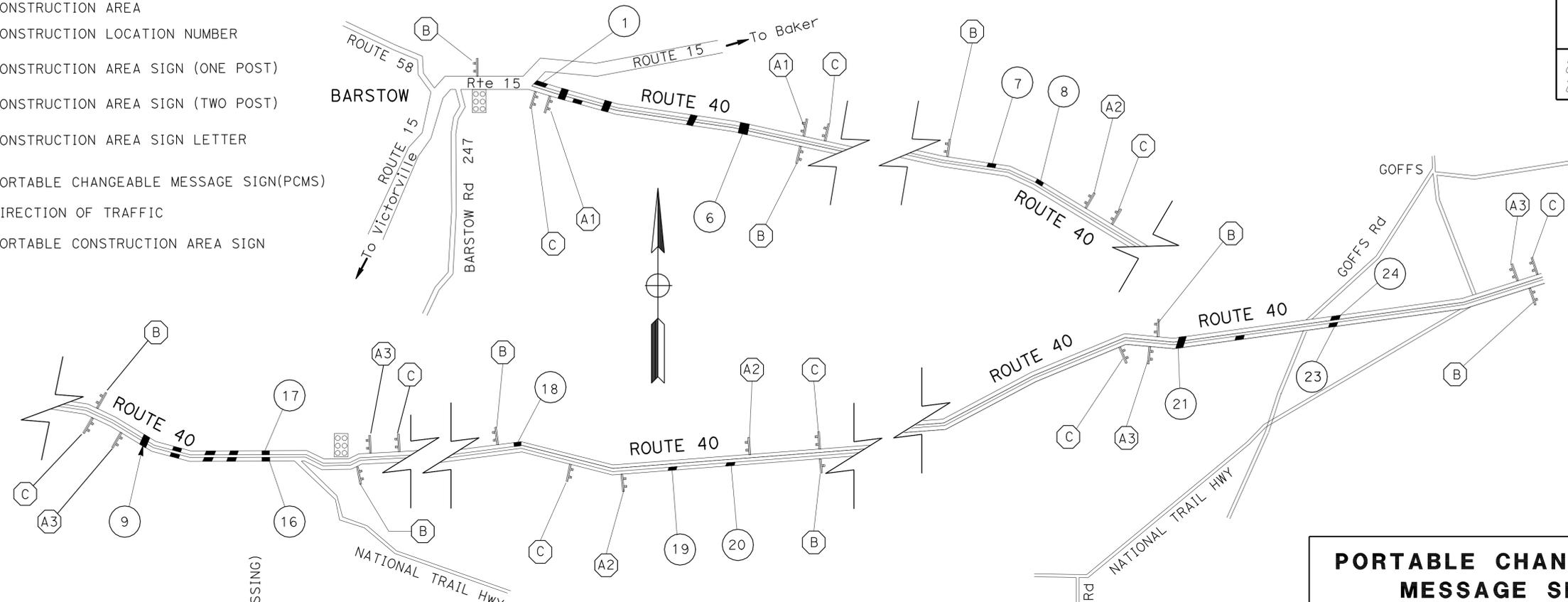
**CONSTRUCTION DETAILS**

NO SCALE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** MAINTENANCE DESIGN  
 FUNCTIONAL SUPERVISOR: KEVIN CHEN  
 CALCULATED/DESIGNED BY: KEVIN H. CHEN  
 REVISOR: IYAD NAMY  
 DATE: 11-01-10

**LEGEND:**

- CONSTRUCTION AREA
- ① CONSTRUCTION LOCATION NUMBER
- ⊥ CONSTRUCTION AREA SIGN (ONE POST)
- ⊥ CONSTRUCTION AREA SIGN (TWO POST)
- ⊗ CONSTRUCTION AREA SIGN LETTER
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN(PCMS)
- ⇨ DIRECTION OF TRAFFIC
- H PORTABLE CONSTRUCTION AREA SIGN



TYPICAL PORTABLE CONSTRUCTION AREA SIGN PLACEMENT ON THE LOCAL STREET AND FREEWAY RAMP DURING WORK

**NOTES:**

- CONSTRUCTION AREA SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
- REFER TO STANDARD PLANS T10, T11, T13 AND T14 FOR TRAFFIC CONTROL REQUIREMENTS WHEN LANE OR RAMP CLOSURES ARE REQUIRED.
- PORTABLE CONSTRUCTION AREA SIGNS SHALL BE REQUIRED AT EACH LOCATION WHERE THE CONTRACTOR IS WORKING. NUMBER OF PORTABLE CONSTRUCTION AREA SIGNS DEPENDS ON THE NUMBER OF LOCATIONS CONTRACTOR IS WORKING.
- LOCATIONS OF PORTABLE CHANGEABLE MESSAGE SIGNS TO BE DETERMINED BY THE ENGINEER. WHEN LANE CLOSURES ARE NEEDED ON RAMP, PORTABLE CHANGEABLE MESSAGE SIGNS WILL BE REQUIRED.

**PORTABLE CONSTRUCTION AREA SIGNS**

SIGN CODE	PANEL SIZE (in)	SIGN MESSAGE	No. OF SIGNS
W20-1	48 x 48	ROAD WORK AHEAD	SEE NOTE 4
G20-2	36 x 18	END ROAD WORK	SEE NOTE 4

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE	PANEL SIZE	SIGN MESSAGE	No. OF POST(S) AND SIZE	No. OF SIGNS
		(In X In)			TWO POST
A1	C11(CA)	90 X 48	ROAD WORK AHEAD NEXT 25 MILES	2 - 6" X 6"	2
A2	C11(CA)	90 X 48	ROAD WORK AHEAD NEXT 5 MILES	2 - 6" X 6"	3
A3	C11(CA)	90 X 48	ROAD WORK AHEAD NEXT 10 MILES	2 - 6" X 6"	4
B	C14(CA)	48 X 24	END ROAD WORK	2 - 4" X 4"	9
C	C40(CA)	72 X 36	TRAFFIC FINES DOUBLED IN CONSTRUCTION ZONES	2 - 4" X 6"	9

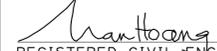
<b>PORTABLE CHANGEABLE MESSAGE SIGN (PCMS)</b>
(EA)
10

**CONSTRUCTION AREA SIGNS**

NO SCALE

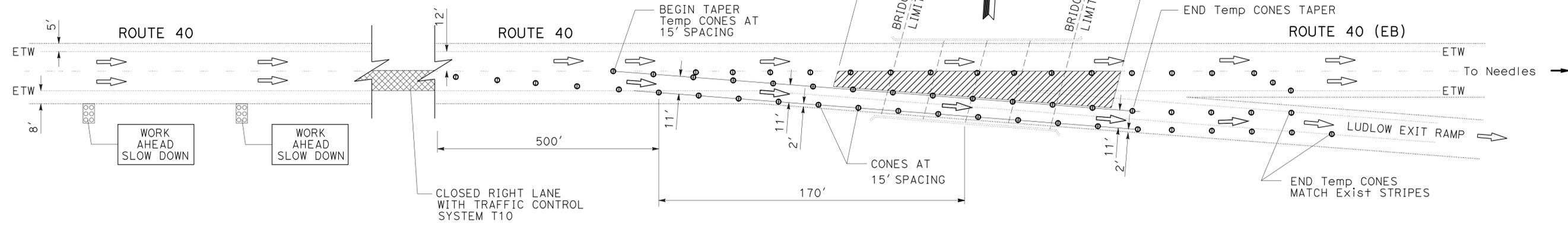
**CS-1**

THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	4	25
			11-01-10	DATE	
REGISTERED CIVIL ENGINEER					
12-27-10			PLANS APPROVAL DATE		
					
<small>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.</small>					

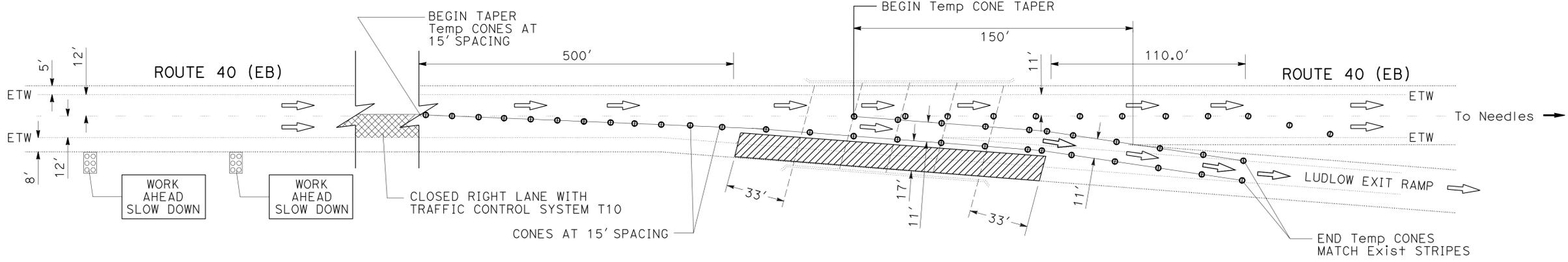
**LEGEND:**

-  CONSTRUCTION AREA
-  AREA CLOSED TO TRAFFIC DURING CONSTRUCTION
-  PORTABLE CHANGEABLE MESSAGE SIGN(PCMS)
-  DIRECTION OF TRAFFIC
-  CONES AT 15' SPACING



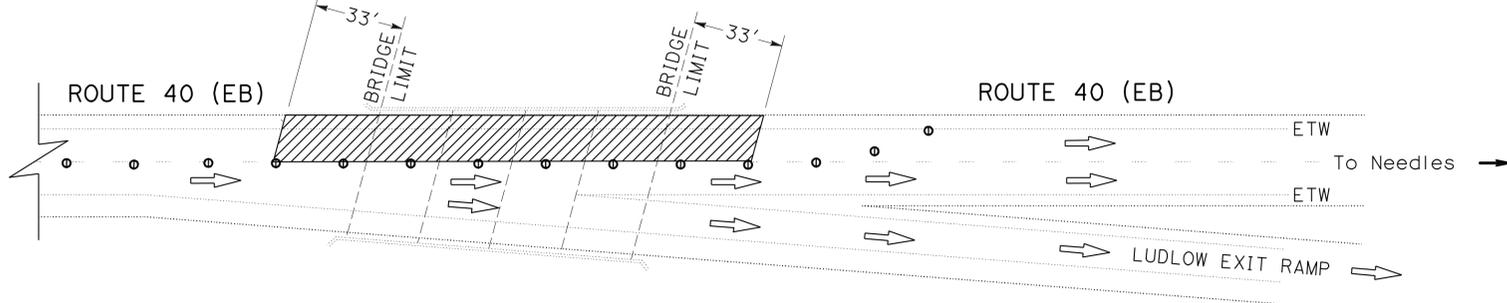
**TRAFFIC HANDLING FOR WORK ON LOCATION 14  
WEST LUDLOW WASH BRIDGE  
STAGE 1**

ROUTE 40 PM(R49.709) EAST BOUND



**TRAFFIC HANDLING FOR WORK ON LOCATION 14  
WEST LUDLOW WASH BRIDGE  
STAGE 2**

ROUTE 40 PM(R49.709) EAST BOUND  
SEE NOTE 1 FOR STAGE 3



**TRAFFIC HANDLING FOR WORK ON LOCATION 14  
WEST LUDLOW WASH BRIDGE  
STAGE 3**

ROUTE 40 PM(R49.709) EAST BOUND

**NOTE:**

1. FOR TRAFFIC HANDLING AT STAGE 3 USE TRAFFIC CONTROL SYSTEM T10 TO CLOSE LEFT THROUGH LANE.

**TRAFFIC HANDLING PLAN**

NO SCALE

**TH-1**

THIS PLAN ACCURATE FOR TRAFFIC HANDLING ONLY

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN 'B'  
 FUNCTIONAL SUPERVISOR: LARRY SARTORI  
 CALCULATED/DESIGNED BY: [blank]  
 CHECKED BY: [blank]  
 DARYUSH NAMI  
 TRAN HOANG  
 REVISED BY: [blank]  
 DATE REVISED: [blank]

USERNAME => trmartin  
DGN FILE => 80p150md001.dgn

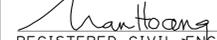
RELATIVE BORDER SCALE IS IN INCHES

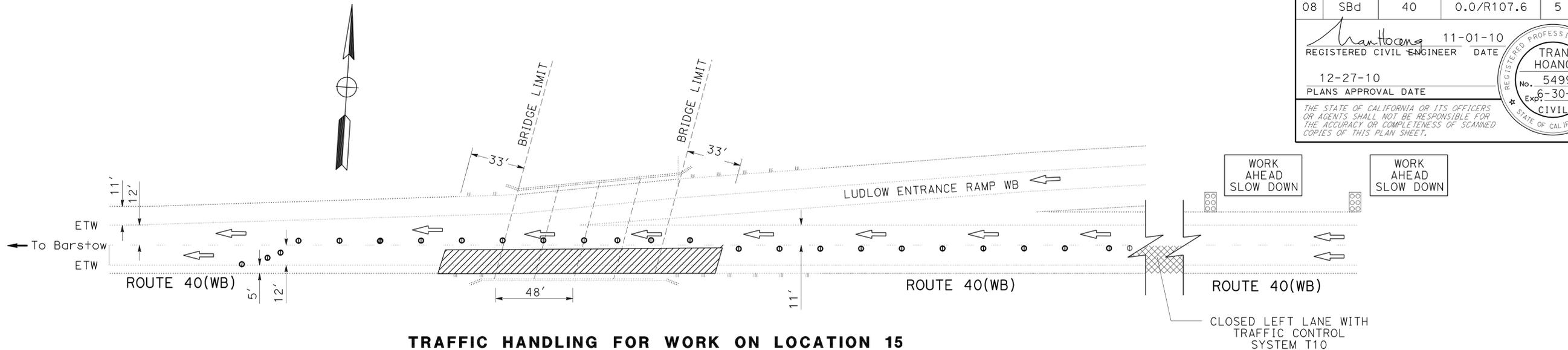


UNIT 2285

PROJECT NUMBER & PHASE

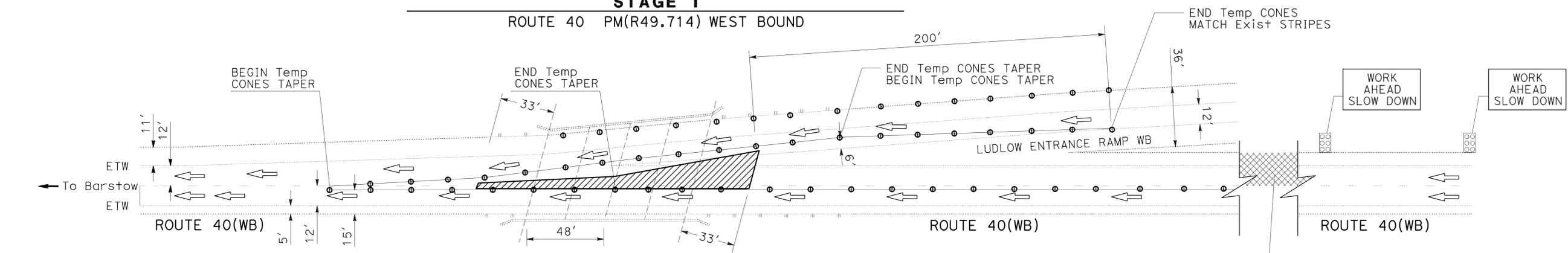
0800005541

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	5	25
			11-01-10	DATE	
REGISTERED CIVIL ENGINEER			DATE		
12-27-10			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.					
					



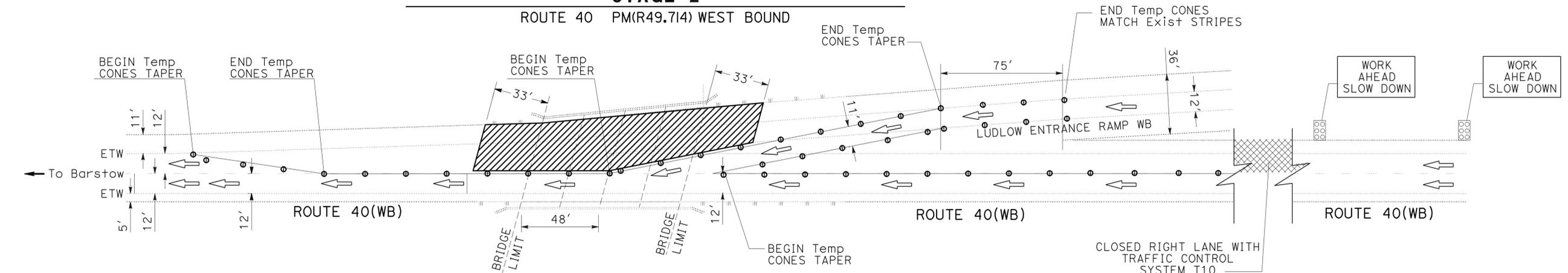
**TRAFFIC HANDLING FOR WORK ON LOCATION 15  
WEST LUDLOW WASH BRIDGE  
STAGE 1**

ROUTE 40 PM(R49.714) WEST BOUND



**TRAFFIC HANDLING FOR WORK ON LOCATION 15  
WEST LUDLOW WASH BRIDGE  
STAGE 2**

ROUTE 40 PM(R49.714) WEST BOUND



**TRAFFIC HANDLING FOR WORK ON LOCATION 15  
WEST LUDLOW WASH BRIDGE  
STAGE 3**

ROUTE 40 PM(R49.714) WEST BOUND

**TRAFFIC HANDLING PLAN**

NO SCALE

**TH-2**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	FUNCTIONAL SUPERVISOR	REVISOR	DATE
<b>Caltrans</b> TRAFFIC DESIGN 'B'	LARRY SARTORI	DARYUSH NAMI	TRAN HOANG
	CHECKED BY	DESIGNED BY	

THIS PLAN ACCURATE FOR TRAFFIC HANDLING ONLY

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	6	25
TRAN HOANG		11-01-10	REGISTERED CIVIL ENGINEER DATE		
12-27-10		PLANS APPROVAL DATE			
No. 54996		Exp. 6-30-12			
CIVIL		STATE OF CALIFORNIA			

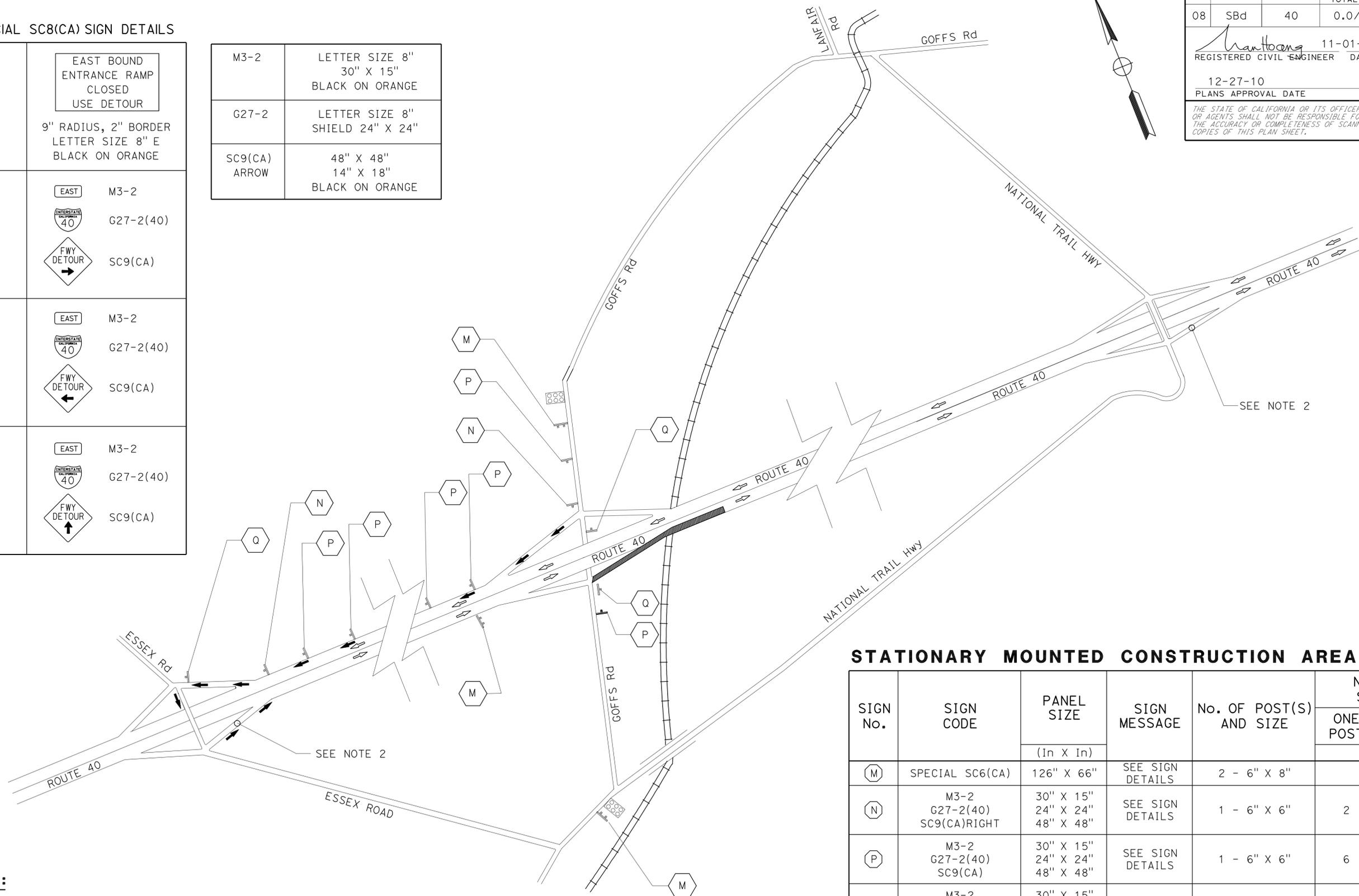
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**SPECIAL SC8(CA) SIGN DETAILS**

M	EAST BOUND ENTRANCE RAMP CLOSED USE DETOUR
N	9" RADIUS, 2" BORDER LETTER SIZE 8" E BLACK ON ORANGE
Q	48" X 48" ARROW

M3-2	LETTER SIZE 8" 30" X 15" BLACK ON ORANGE
G27-2	LETTER SIZE 8" SHIELD 24" X 24"
SC9(CA)	48" X 48" 14" X 18" BLACK ON ORANGE

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
**Caltrans** TRAFFIC DESIGN 'B'  
 FUNCTIONAL SUPERVISOR: LARRY SARTORI  
 CALCULATED/DESIGNED BY: DARYUSH NAMI  
 CHECKED BY: TRAN HOANG  
 REVISED BY: DATE REVISION



**NOTES:**

- DO NOT WORK ON THE ESSEX RD OC (LOCATION 21), AND FENNER OH (LOCATION 23) AT THE SAME TIME.
- DO NOT CLOSE ON RAMP DURING CLOSURE FOR WORK AT LOCATION 23.

**STATIONARY MOUNTED CONSTRUCTION AREA SIGNS**

SIGN No.	SIGN CODE	PANEL SIZE (In X In)	SIGN MESSAGE	No. OF POST(S) AND SIZE	No. OF SIGNS	
					ONE POST	TWO POST
					(EA)	
M	SPECIAL SC6(CA)	126" X 66"	SEE SIGN DETAILS	2 - 6" X 8"		3
N	M3-2 G27-2(40) SC9(CA)RIGHT	30" X 15" 24" X 24" 48" X 48"	SEE SIGN DETAILS	1 - 6" X 6"	2	
P	M3-2 G27-2(40) SC9(CA)	30" X 15" 24" X 24" 48" X 48"	SEE SIGN DETAILS	1 - 6" X 6"	6	
Q	M3-2 G27-2(40) SC9(CA)LEFT	30" X 15" 24" X 24" 48" X 48"	SEE SIGN DETAILS	1 - 6" X 6"	2	

**TRAFFIC HANDLING FOR WORK ON LOCATION 23 FENNER OH BRIDGE**

ROUTE 40 PM R107.17 EAST BOUND  
GOFFS ROAD ONRAMP

THIS PLAN ACCURATE FOR TRAFFIC HANDLING ONLY

**TRAFFIC HANDLING PLAN**

NO SCALE

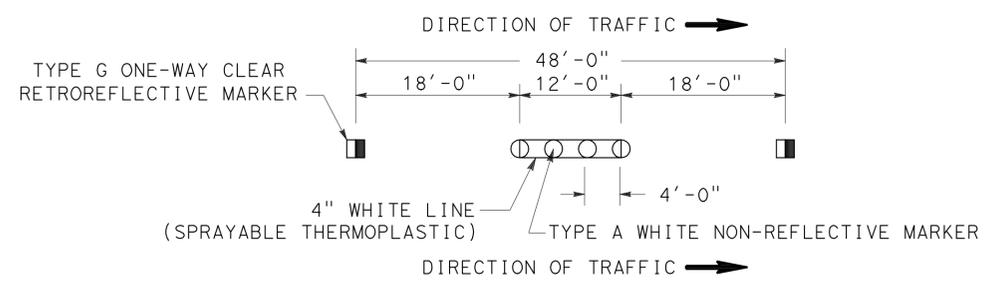
**TH-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	7	25

11-01-10  
 REGISTERED CIVIL ENGINEER DATE  
 12-27-10  
 PLANS APPROVAL DATE

TRAN HOANG  
 No. 54996  
 Exp. 6-30-12  
 CIVIL

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 13M**  
NO SCALE

**PAVEMENT DELINEATION QUANTITIES**

LOCATION & DIRECTION				REMOVE PAVEMENT MARKER	REMOVE THERMOPLASTIC TRAFFIC STRIPE		PAVEMENT MARKER				THERMOPLASTIC TRAFFIC STRIPE (SPRAYABLE) DETAIL No. AND QUANTITY						
					YELLOW	WHITE	NON-REFLECTIVE		RETROREFLECTIVE		4 in YELLOW		4 in WHITE		8 in WHITE		
PM	ROUTE	BRIDGE NUMBER	Dir	EA			A	D	G	H	DETAIL 22	DETAIL 25	DETAIL 13M	DETAIL 27B	DETAIL 36		
							EA	EA	EA	EA	FT	FT	FT	FT	FT		
0.01	Rte 40	54 1175F	WB/OC	122	925	1850	80	0	21	21	0	925	925	925			
R002.667	Rte 40	54 0657	OC	21	220	440		21			220			440			
R004.708	Rte 40	54 0662R	EB/UC	36	330	660	28			8		330	330	330			
R007.181	Rte 40	54 0663	OC	44	500	1000		44			500			1000			
R020.268	Rte 40	54 0709	OC	44	500	1000		44			500			1000			
R023.334	Rte 40	54 0710	OC	44	500	1000		44			500			1000			
R032.496	Rte 40	54 0719L	WB/UC	44	320	640	28		8	8		320	320	320			
R037.266	Rte 40	54 0691L	WB/UC	56	400	800	36		10	10		400	400	400			
R041.905	Rte 40	54 0734	OC	44	500	1000		44			500			1000			
R043.839	Rte 40	54 0737R	EB/UC	50	360	720	32		9	9		360	360	360			
R043.850	Rte 40	54 0737L	WB/UC	50	360	720	32		9	9		360	360	360			
R049.042	Rte 40	54 0736R	EB/UC	50	340	680	32		9	9		340	340	340			
R049.046	Rte 40	54 0736L	WB/UC	50	340	680	32		9	9		340	340	340			
R049.709	Rte 40	54 0079R	EB/UC	65	368	1036	32		24	9		368	368	368	300		
R049.714	Rte 40	54 0079L	WB/UC	59	368	896	32		18	9		368	368	368	160		
R049.984	Rte 40	54 0735R	EB/UC	50	370	740	32		9	9		370	370	370			
R049.985	Rte 40	54 0735L	WBUC	50	370	740	32		9	9		370	370	370			
R076.497	Rte 40	54 0852R	EB/UC	44	310	620	28		8	8		310	310	310			
R077.371	Rte 40	54 0853R	EB/UC	50	380	760	32		9	9		380	380	380			
R099.728	Rte 40	54 0896	OC	51	580	1160		51			580			1160			
R105.871	Rte 40	54 1282R	EB/UC	31	0	550	24		7				275	275			
R107.518	Rte 40	54 1270R	EB/OH	90	500	1500	44		34	12		500	500	500	500		
R107.557	Rte 40	54 1270L	WB/OH	68	500	1000	44		12	12		500	500	500	0		
SUB-TOTAL				1213	9341	20192	600	248	205	160	2800	6541	6816	12416	960		
SHEET TOTAL				1213	9341	20192	600	613		29533							

**PAVEMENT QUANTITIES**

DESCRIPTION	PM	COLD PLANE AC PAVEMENT	HOT MIX ASPHALT (TYPE C)	TACK COAT	RUMBLE STRIP (SHOULDER HMA GROUND-IN INDENTATIONS)
	VARIOUS LOCATIONS	(SQYD)	(TON)	(TON)	(Sta)
EB & WB	0.00 / R107.56	4305	908	1.43	7.26
TOTAL		4305	908	1.43	7.26

**PAVEMENT DELINEATION QUANTITIES PDQ-1**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

**Caltrans** TRAFFIC DESIGN 'B'

FUNCTIONAL SUPERVISOR: LARRY SARTORI

DESIGNED BY: DARYUSH NAMI

CHECKED BY: TRAN HOANG

REVISOR: REVISOR

DATE: DATE

REVISIONS:

LAST REVISION: 11-01-10  
 DATE PLOTTED => 29-DEC-2010  
 TIME PLOTTED => 09:50

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	8	25

*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

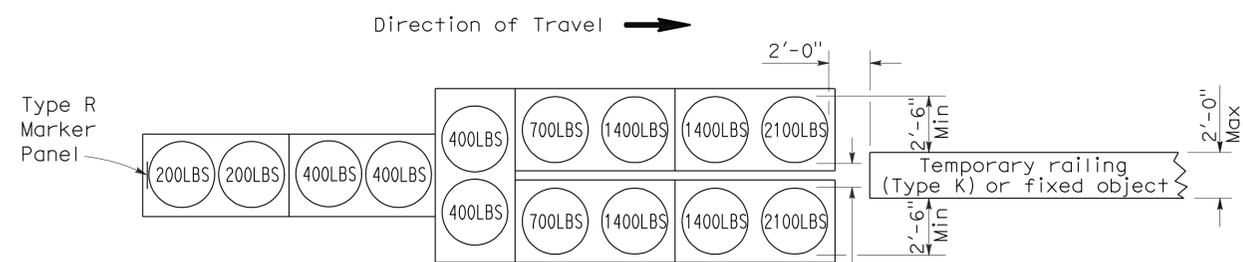
June 6, 2008  
PLANS APPROVAL DATE

*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
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.

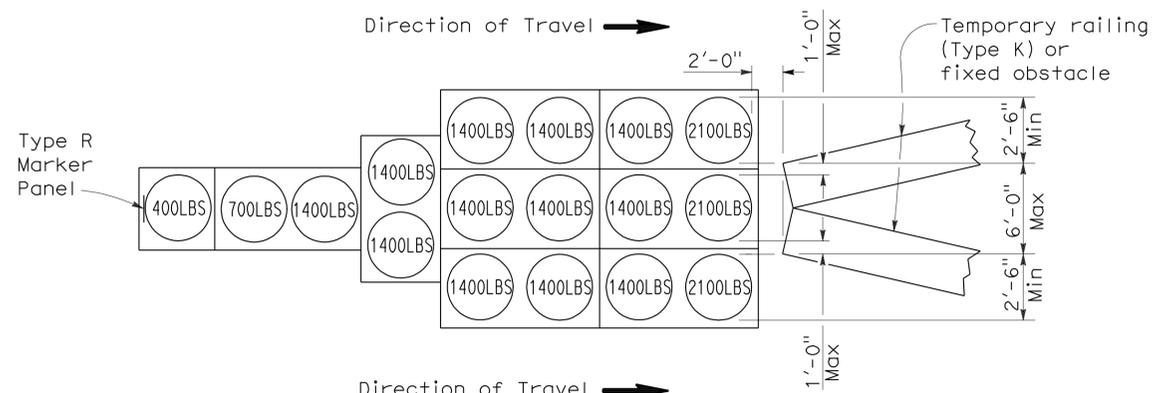
To accompany plans dated 12-27-10

2006 REVISED STANDARD PLAN RSP T1A



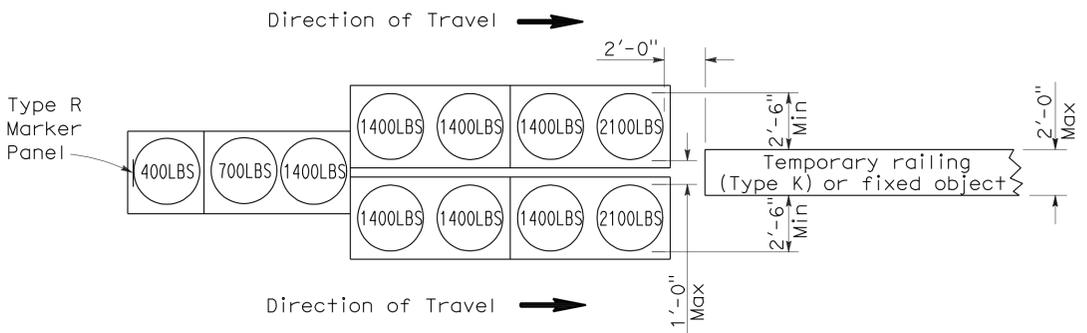
**ARRAY 'TU14'**

Approach speed 45 mph or more



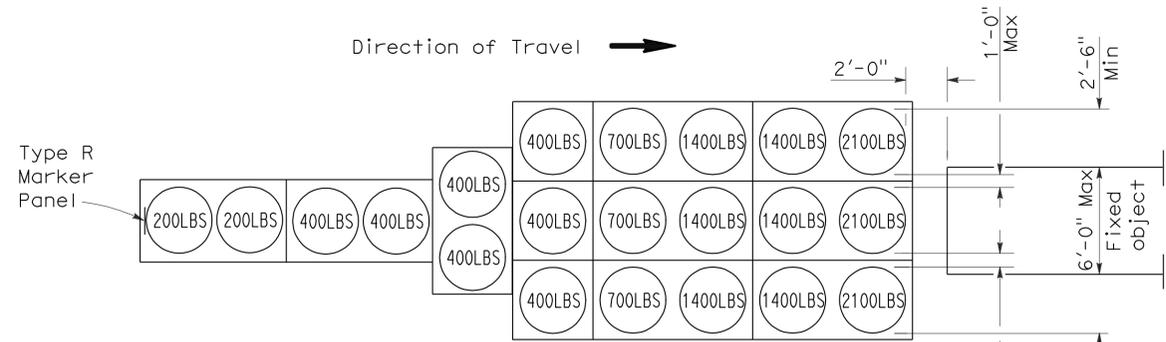
**ARRAY 'TU17'**

Approach speed less than 45 mph



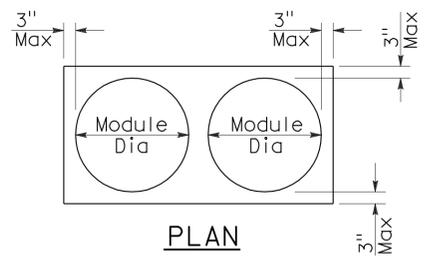
**ARRAY 'TU11'**

Approach speed less than 45 mph

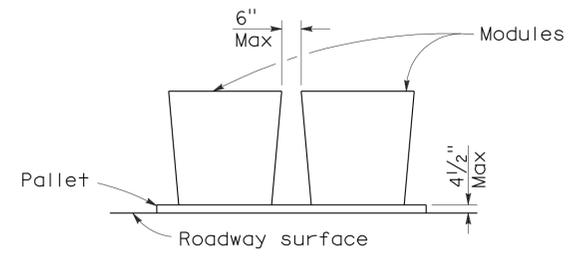


**ARRAY 'TU21'**

Approach speed 45 mph or more



**PLAN**



**ELEVATION**

**CRASH CUSHION PALLET DETAIL**

See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the top of Type R marker panel 1" below the module lid.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(UNIDIRECTIONAL)**

NO SCALE

RSP T1A DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1A  
DATED MAY 1, 2006 - PAGE 211 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1A**

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	9	25

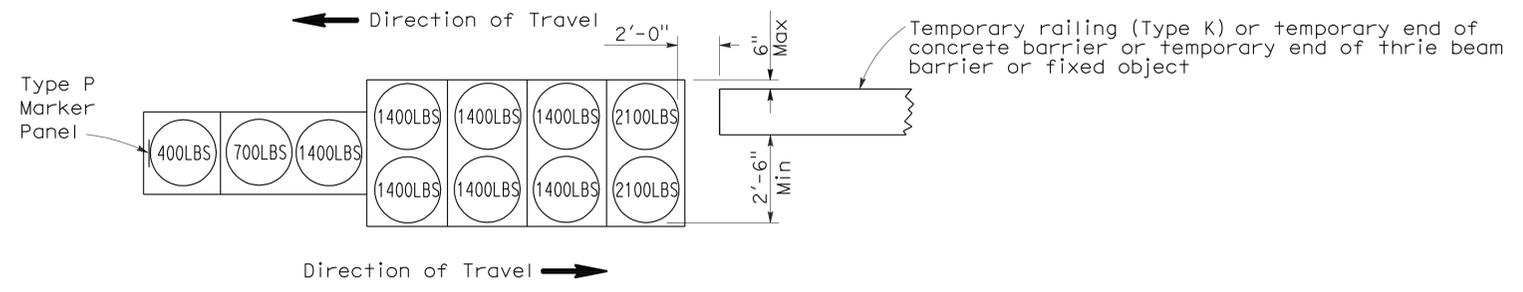
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

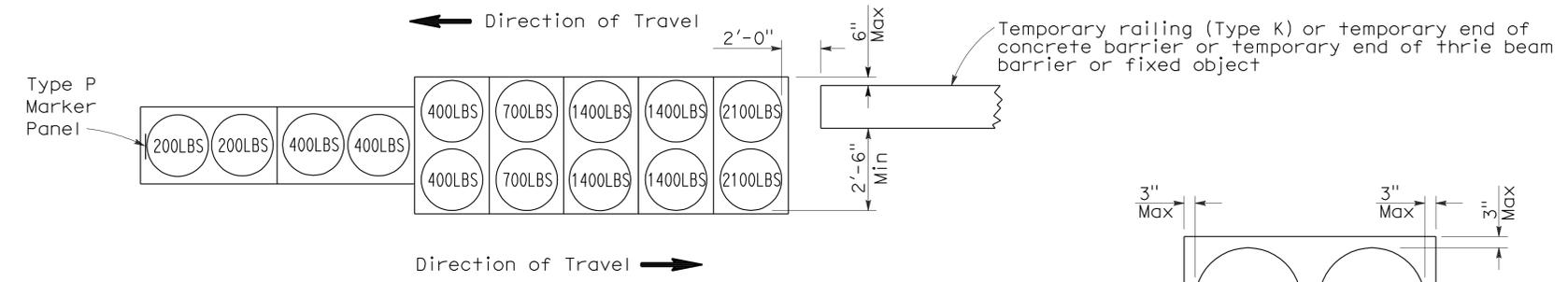
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

REGISTERED PROFESSIONAL ENGINEER  
Randell D. Hiatt  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

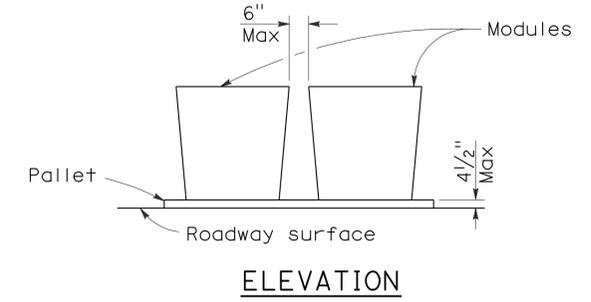
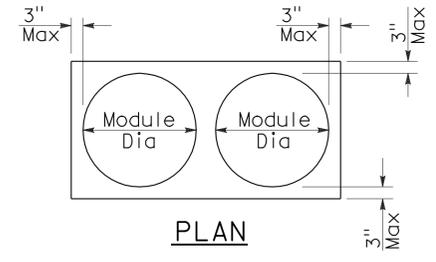
To accompany plans dated 12-27-10



**ARRAY 'TB11'**  
Approach speed less than 45 mph



**ARRAY 'TB14'**  
Approach speed 45 mph or more



**CRASH CUSHION PALLET DETAIL**  
See Note 7

**NOTES:**

1. (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
2. All sand weights are nominal.
3. Temporary crash cushion arrays shall not encroach on the traveled way.
4. Place the Type P marker panel so that the bottom of the panel rests upon the pallet.
5. Refer to Standard Plan A73B for marker details.
6. Approach speeds indicated conform to NCHRP 350 Report criteria.
7. Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(BIDIRECTIONAL)**

NO SCALE

RSP T1B DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T1B  
DATED MAY 1, 2006 - PAGE 212 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP T1B**

2006 REVISED STANDARD PLAN RSP T1B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
08	SBd	40	0.0/R107.6	10	25

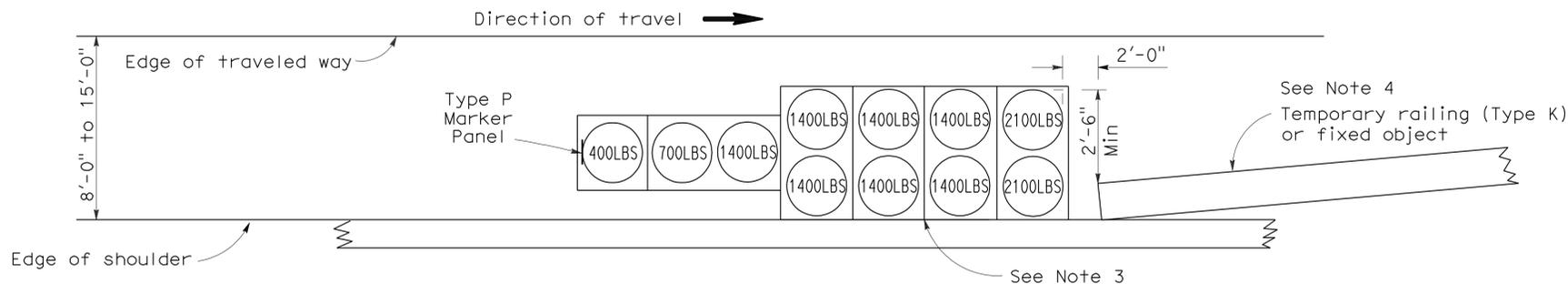
*Randell D. Hiatt*  
REGISTERED CIVIL ENGINEER

June 6, 2008  
PLANS APPROVAL DATE

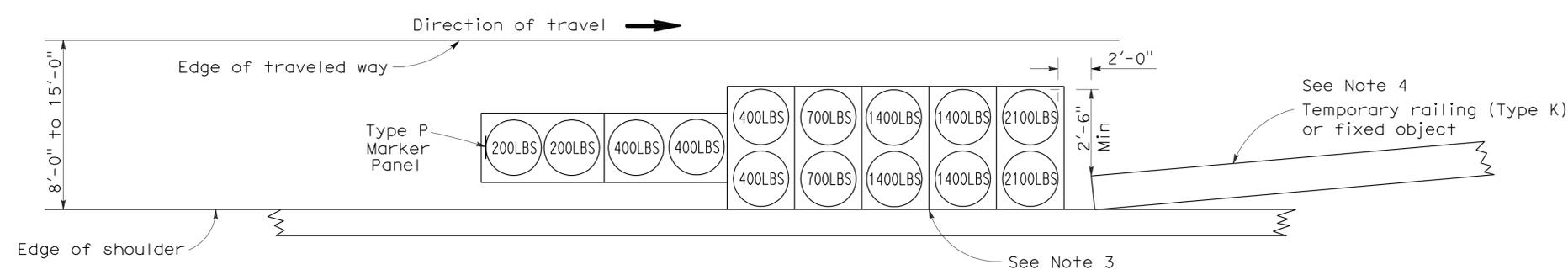
*Randell D. Hiatt*  
REGISTERED PROFESSIONAL ENGINEER  
No. C50200  
Exp. 6-30-09  
CIVIL  
STATE OF CALIFORNIA

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.

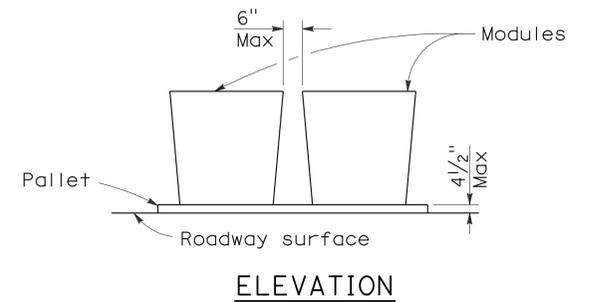
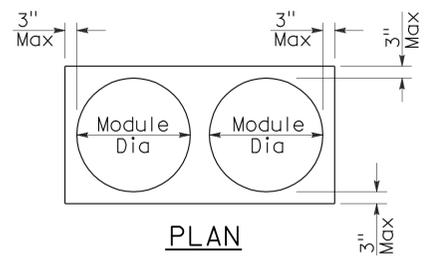
To accompany plans dated 12-27-10



**ARRAY 'TS11'**  
Approach speed less than 45 mph  
See Note 9



**ARRAY 'TS14'**  
Approach speed 45 mph or more  
See Note 9



**CRASH CUSHION PALLET DETAIL**  
See Note 11

**NOTES:**

- (XXX) Indicates sand filled module location and weight of sand in pounds for each module. Module spacing is based on the greater diameter of the module.
- All sand weights are nominal.
- The temporary crash cushion arrays shown on this plan shall be used only in locations where there will be traffic on one side of the temporary crash cushion array.
- If the fixed object or approach end of the temporary railing is less than 15'-0" from the edge of traveled way, a temporary crash cushion is required in a construction or work zone.
- Temporary crash cushion arrays shall not encroach on the traveled way.
- Arrays for median shoulders shall conform to details shown on this plan for outside shoulders.
- Place the Type P marker panel so that the bottom of the panel rests upon the pallet and faces traffic.
- Refer to Standard Plan A73B for marker details.
- For shoulder widths less than 8'-0", appropriate approved crash cushion protection, other than sand filled modules, shall be provided at fixed objects and at approach ends of temporary railing. The specific type of crash cushion shall be as shown on the project plans or as specified in the Special Provisions, or if not shown on the project plans or specified in the Special Provisions, shall be as approved by the Engineer.
- Approach speeds indicated conform to NCHRP 350 Report criteria.
- Use of pallets is optional.

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

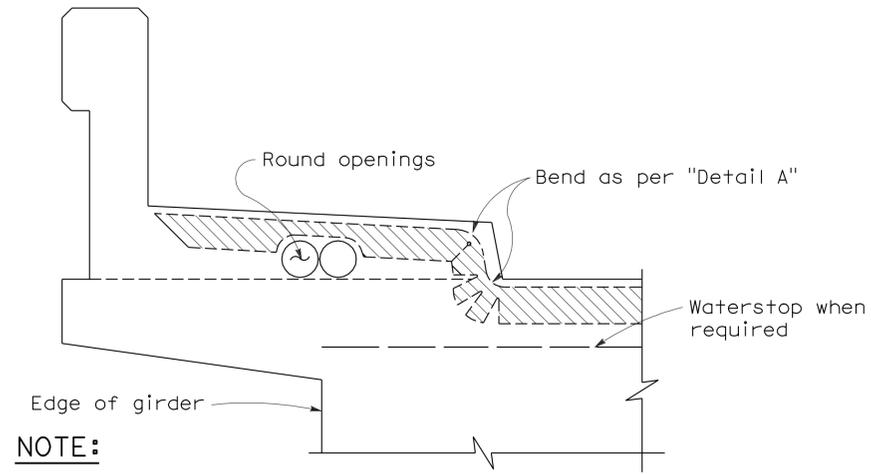
**TEMPORARY CRASH CUSHION,  
SAND FILLED  
(SHOULDER INSTALLATIONS)**

NO SCALE

RSP T2 DATED JUNE 6, 2008 SUPERSEDES STANDARD PLAN T2  
DATED MAY 1, 2006 - PAGE 213 OF THE STANDARD PLANS BOOK DATED MAY 2006.

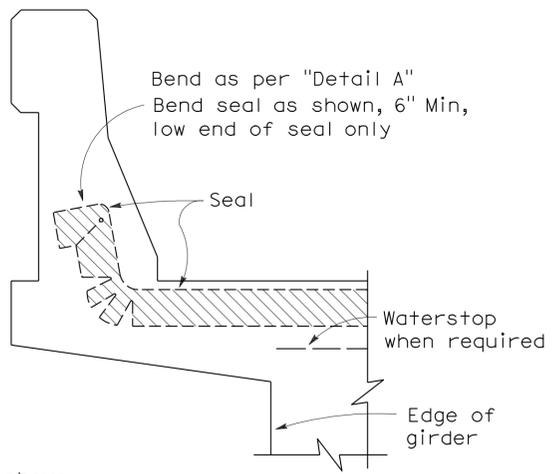
**REVISED STANDARD PLAN RSP T2**

2006 REVISED STANDARD PLAN RSP T2

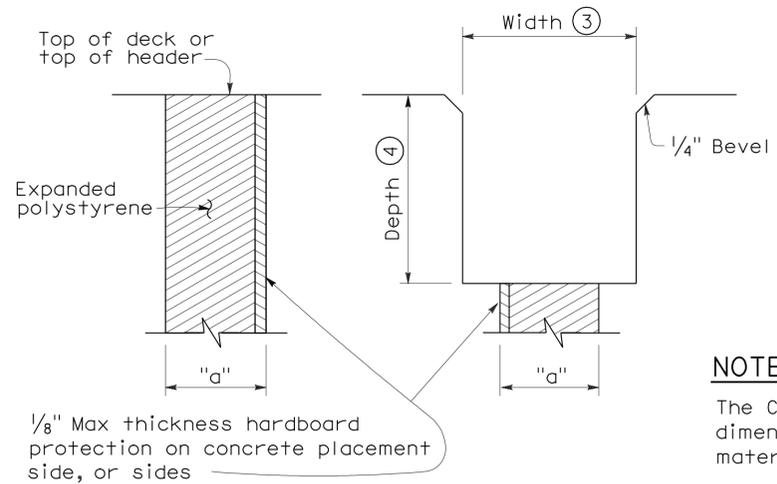


**NOTE:**  
 Type "B" seal shown. Type "A" seals to conform to the general path of seal shown, cuts for bending not required. Bend Type "A" seals 3" up into curb or barrier rail on only the low end of the seal.

**CONCRETE BARRIER AND SIDEWALK**



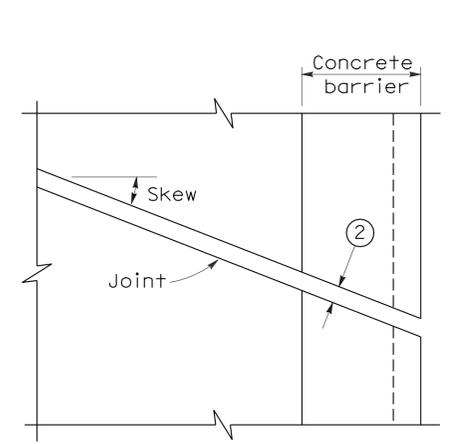
**CONCRETE BARRIER**



**FORMING DETAIL SAWCUT DETAIL**

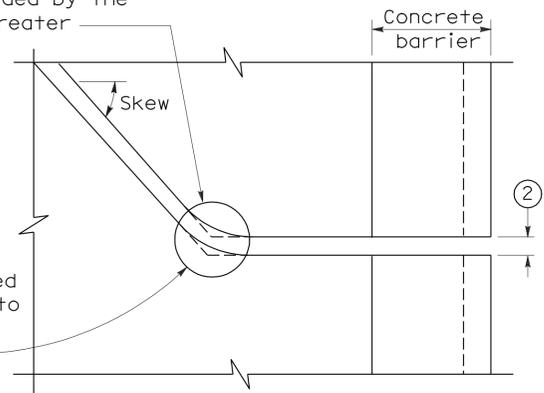
**NOTE:**  
 The Contractor shall verify all controlling field dimensions before ordering or fabricating any material.

**JOINT SEALS DETAILS**



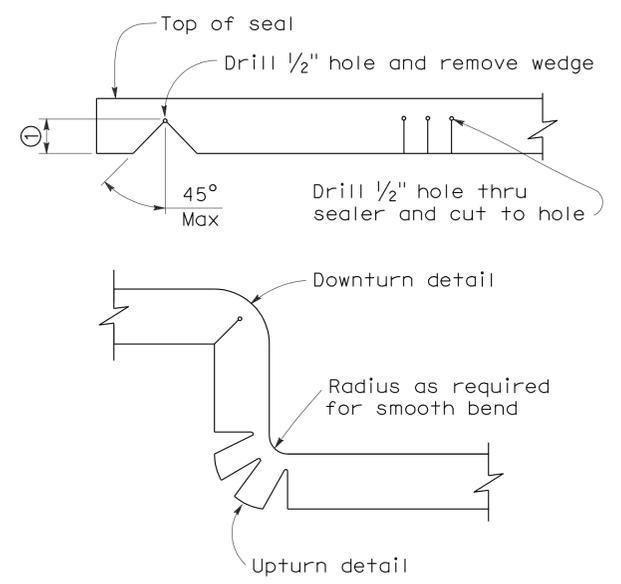
**PLAN OF JOINT (SKEW ≤ 20°)**

Min  $\phi$  radius to be 4 times uncompressed width of seal or as recommended by the manufacturer, whichever is greater



**PLAN OF JOINT (SKEW > 20°)**

In lieu of saw cutting, this area may be blocked out and reconstructed to match saw cutting on both sides.



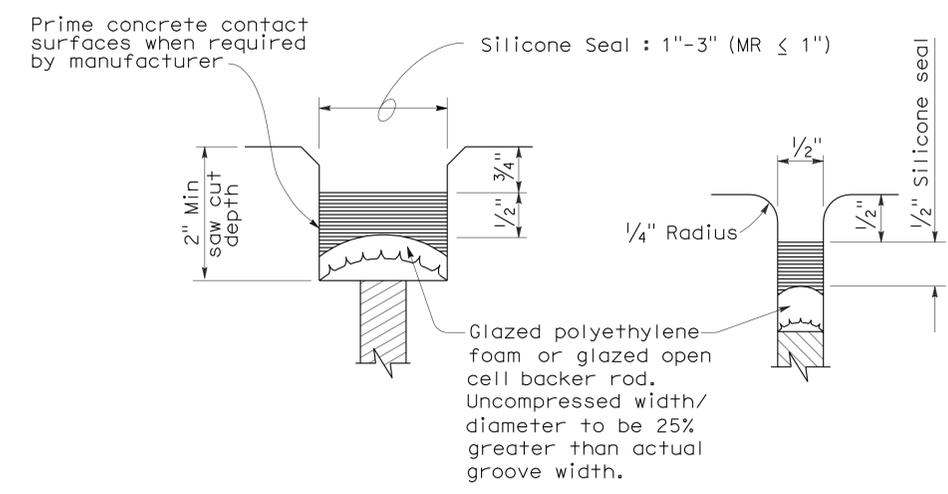
**DETAIL A**

- NOTES:**
- Make smooth cuts from the bottom of seal to 1 1/2" clear of top leaving at least one complete cell between the top of the cut and top of the seal. When necessary cut back of seal to clear conduit and round openings.
  - Opening in barrier to match width of sawn deck joint.
  - Sawcut groove widths shall be as ordered by the Engineer.
  - Depth of sawcut: Type A - Depth to be 2" minimum.  
 Type B - Depth to be equal to or greater than the depth of seal measured along the contact surface, when compressed to minimum width position (W<sub>2</sub>) plus dimensions shown.
  - MR (movement rating) as shown on other plan sheets.
  - Other depths must be approved by the Engineer.

**DIMENSIONS "a" OF JOINT REQUIRED**

Movement Rating (MR) ⑤	Bridge Type	"a" Dimension		
		Deck Concrete Placed		
		Winter	Fall-Spring	Summer
2"	All except CIP/PS	1 1/2"	1 1/4"	3/4"
	CIP/PS	1 1/4"	1"	1/2"
1 1/2"	All except CIP/PS	1 1/4"	1"	1/2"
	CIP/PS	1"	3/4"	1/2"
1"	All except CIP/PS	1"	3/4"	1/2"
	CIP/PS	3/4"	1/2"	1/2"
1/2"	All except CIP/PS	3/4"	3/4"	1/2"
	CIP/PS	1/2"	1/2"	1/2"

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION  
**JOINT SEALS**  
**(MAXIMUM MOVEMENT RATING = 2")**  
 NO SCALE

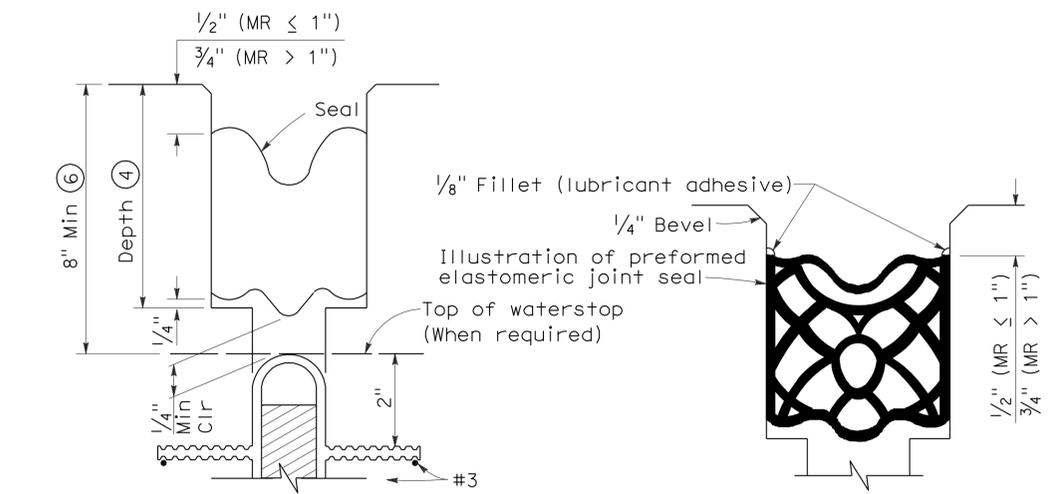


**TYPE A SEAL**

Movement rating : Silicone = 1" Max

**TYPE AL SEAL**

Longitudinal joints only



**TYPE B JOINT SEAL IN MINIMUM WIDTH POSITION (W<sub>2</sub>)**

**TYPE B SEAL**

Movement Rating ≤ 2"

RSP B6-21 DATED OCTOBER 5, 2007 SUPERSEDES STANDARD PLAN B6-21 DATED MAY 1, 2006 - PAGE 258 OF THE STANDARD PLANS BOOK DATED MAY 2006.

**REVISED STANDARD PLAN RSP B6-21**

2006 REVISED STANDARD PLAN RSP B6-21

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	12	25
		Edward Li		06-25-10	
		REGISTERED CIVIL ENGINEER		DATE	
		12-27-10		PLANS APPROVAL DATE	
		No. C56706		Exp. 06/30/11	
		CIVIL		STATE OF CALIFORNIA	

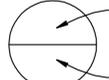
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

**LEGEND:**

- Indicates existing
- Indicates direction of traffic
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete

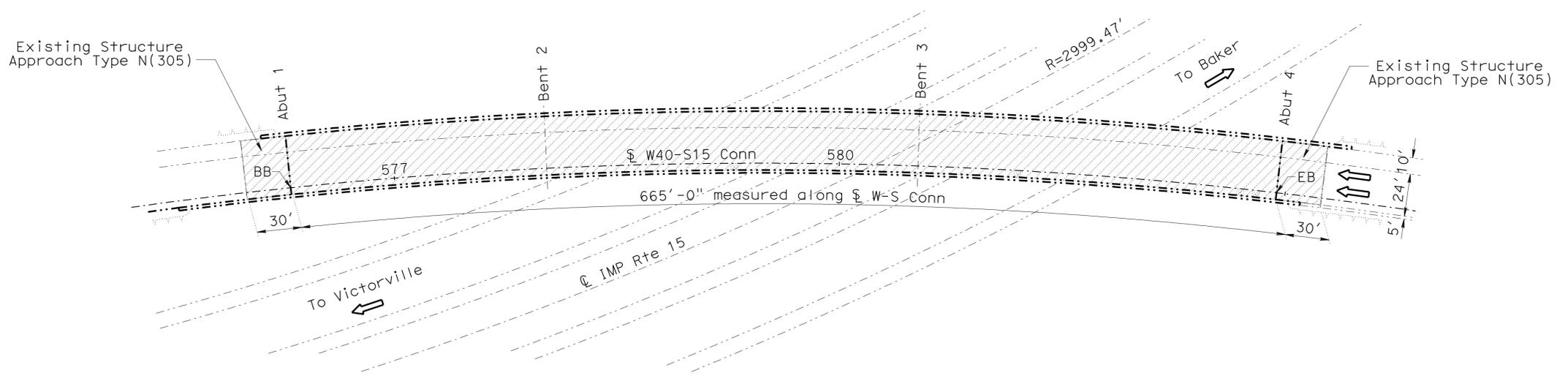
**STANDARD PLANS DATED MAY 2006**

SHEET No.	TITLE
A10A	ACRONYMS AND ABBREVIATIONS (SHEET 1 OF 2)
A10B	ACRONYMS AND ABBREVIATIONS (SHEET 2 OF 2)
A10C	SYMBOLS (SHEET 1 OF 2)
A10D	SYMBOLS (SHEET 2 OF 2)
RSP B6-21	JOINT SEALS (MAXIMUM MOVEMENT RATING = 2")

 STANDARD PLAN SHEET No.  
 DETAIL No.

**INDEX TO PLANS**

SHEET No.	TITLE
1	GENERAL PLAN NO. 1
2	GENERAL PLAN NO. 2
3	GENERAL PLAN NO. 3
4	GENERAL PLAN NO. 4
5	GENERAL PLAN NO. 5
6	GENERAL PLAN NO. 6
7	GENERAL PLAN NO. 7
8	GENERAL PLAN NO. 8
9	GENERAL PLAN NO. 9
10	GENERAL PLAN NO. 10
11	GENERAL PLAN NO. 11
12	MISCELLANEOUS DETAILS NO. 1
13	MISCELLANEOUS DETAILS NO. 2
14	MISCELLANEOUS DETAILS NO. 3



**W40-S15 CONNECTOR OC**  
 Br No. 54-1175F, Rte 40, PM .01  
 NO SCALE

W40-S15 CONNECTOR OC #54-1175F  
 QUANTITIES

REMOVE UNSOUND CONCRETE	71 CF
CLEAN BRIDGE DECK	28,275 SQFT
RAPID SETTING CONCRETE (PATCH)	71 CF
TREAT BRIDGE DECK	28,275 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	353 GAL

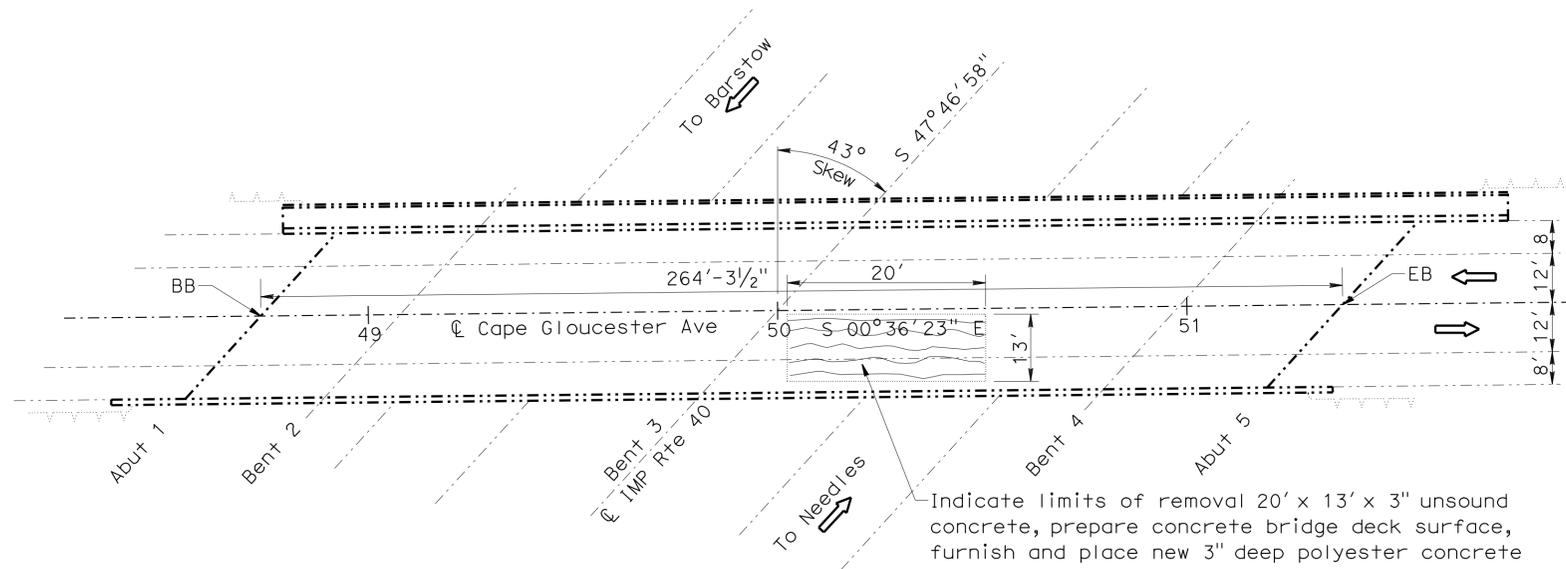
<b>TONY D. BRAKE</b> DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION	<b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	<b>ROUTES 40 BRIDGES</b> <b>GENERAL PLAN NO. 1</b>		
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE	
	QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson		VARIES	
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	CU 08 EA OP1501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 1 OF 14

FILE => 08-0P1501-a-gp01.dgn

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	13	25
Edward Li		06-25-10		REGISTERED CIVIL ENGINEER DATE	
12-27-10		PLANS APPROVAL DATE		REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA	
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

**LEGEND:**

- Indicates existing
- ⇒ Indicates direction of traffic
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete



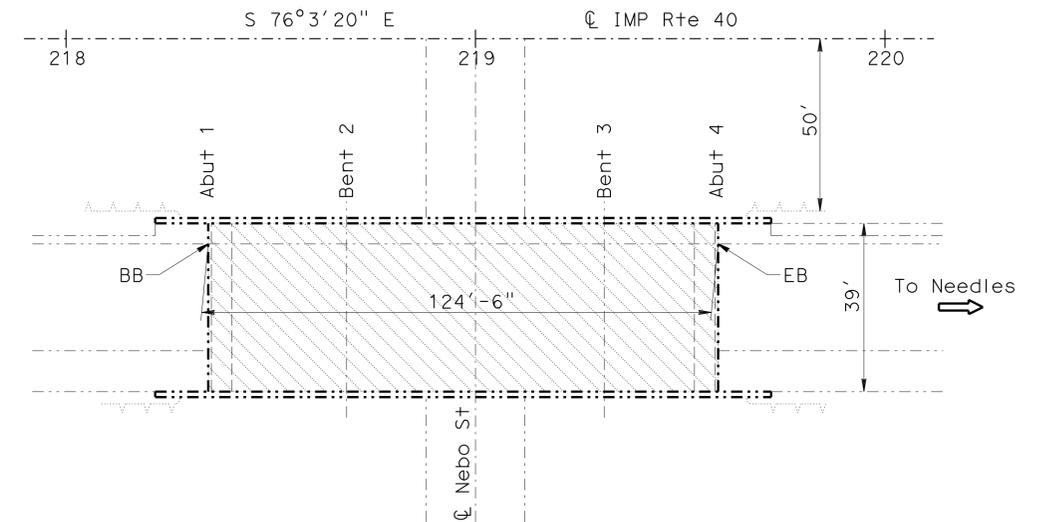
**CAPE GLOUCESTER AVENUE OC**

Br No. 54-0657, Rte 40, PM R2.67  
SCALE: 1" = 20'

CAPE GLOUCESTER AVE OC #54-0657

QUANTITIES

REMOVE UNSOUND CONCRETE	65 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	260 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	65 CF
PLACE POLYESTER CONCRETE OVERLAY	260 SQFT



**NEBO STREET UC**

Br No. 54-0662R, Rte 40, PM R4.71  
SCALE: 1" = 20'

NEBO STREET UC #54-0662R

QUANTITIES

REMOVE UNSOUND CONCRETE	12 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,856 SQFT
RAPID SETTING CONCRETE (PATCH)	12 CF
FURNISH POLYESTER CONCRETE OVERLAY	304 CF
PLACE POLYESTER CONCRETE OVERLAY	4,856 SQFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE  
DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 40 BRIDGES  
GENERAL PLAN NO. 2**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 08  
EA OP1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

03-11-10	05-17-10	04-16-10	05-18-10	05-11-10	06-28-10	07-07-10	09-01-10
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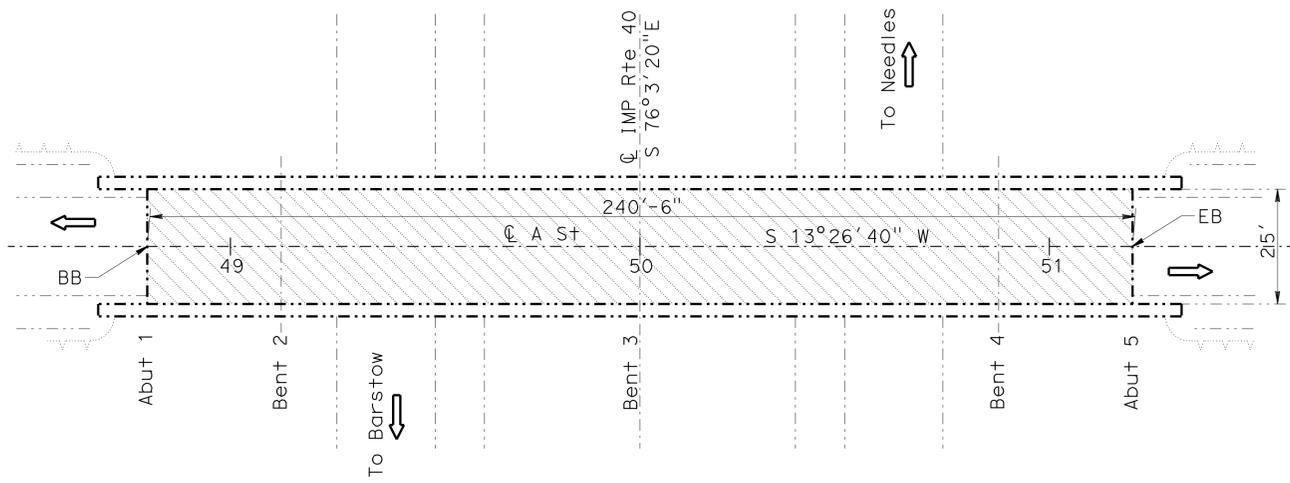
SHEET 2 OF 14

USERNAME => fprifice DATE PLOTTED => 29-DEC-2010 TIME PLOTTED => 08:49

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	14	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/11		
CIVIL			STATE OF CALIFORNIA		
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**LEGEND:**

- Indicates existing
- ➔ Indicates direction of traffic
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete

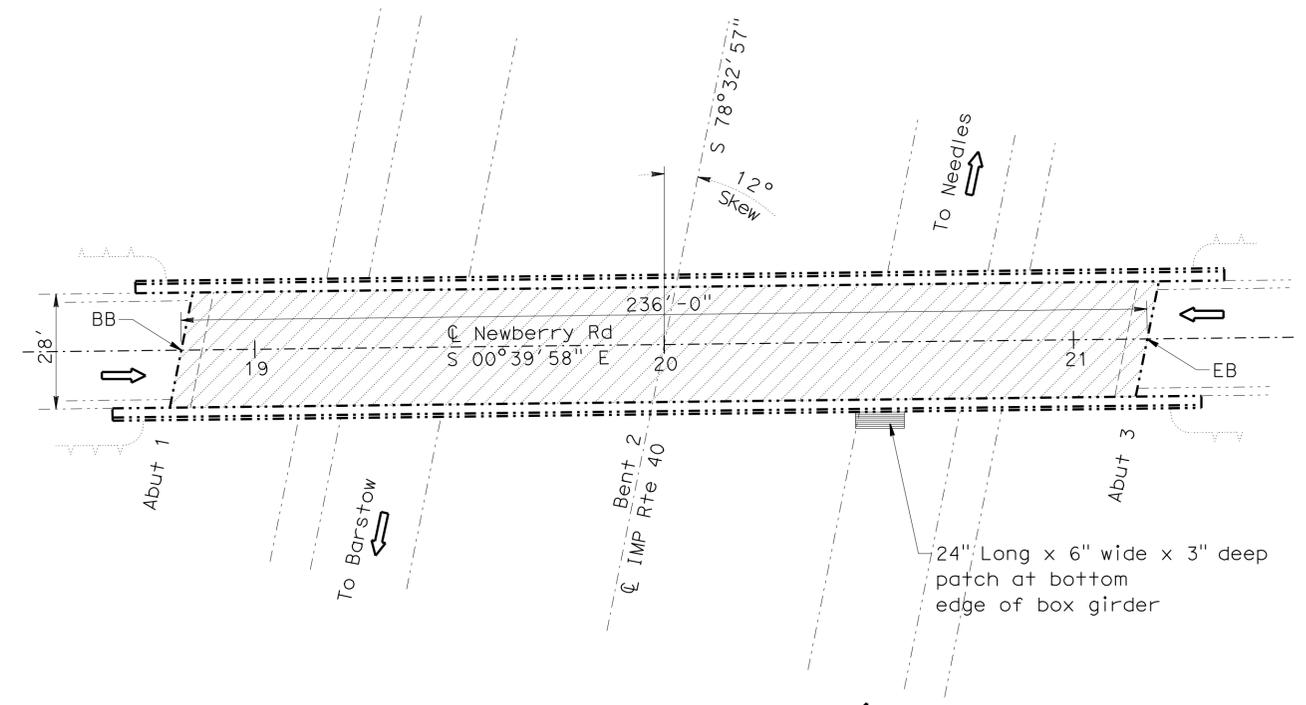


**A STREET OC**

Br No. 54-0663, Rte 40, PM R7.18  
SCALE: 1" = 20'

A STREET OC #54-0663  
QUANTITIES

REMOVE UNSOUND CONCRETE	15 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,013 SQFT
RAPID SETTING CONCRETE (PATCH)	15 CF
FURNISH POLYESTER CONCRETE OVERLAY	376 CF
PLACE POLYESTER CONCRETE OVERLAY	6,013 SQFT



**NEWBERRY ROAD OC**

Br No. 54-0709, Rte 40, PM R20.27  
SCALE: 1" = 20'

NEWBERRY RD OC #54-0709  
QUANTITIES

REMOVE UNSOUND CONCRETE	17 CF
CLEAN BRIDGE DECK	6,608 SQFT
RAPID SETTING CONCRETE (PATCH)	17 CF
REPAIR SPALLED SURFACE AREA	1 SQFT
TREAT BRIDGE DECK	6,608 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	83 GAL

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE	BRIDGE NO.
	STRUCTURE MAINTENANCE DESIGN	Various
		POST MILE

ROUTE 40 BRIDGES	
GENERAL PLAN NO. 3	
REVISION DATES	SHEET 3 OF 14

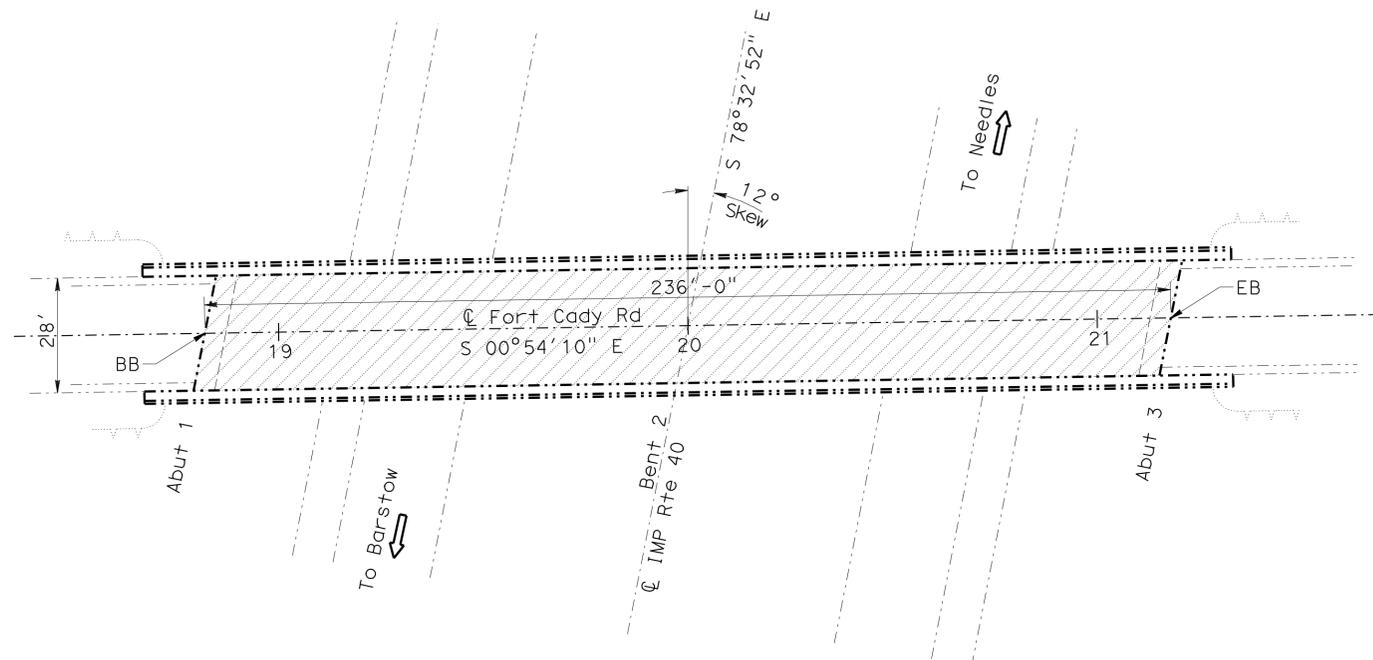
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	15	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/11		
CIVIL			STATE OF CALIFORNIA		

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**LEGEND:**

- Indicates existing
- ➔ Indicates direction of traffic
-  Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete

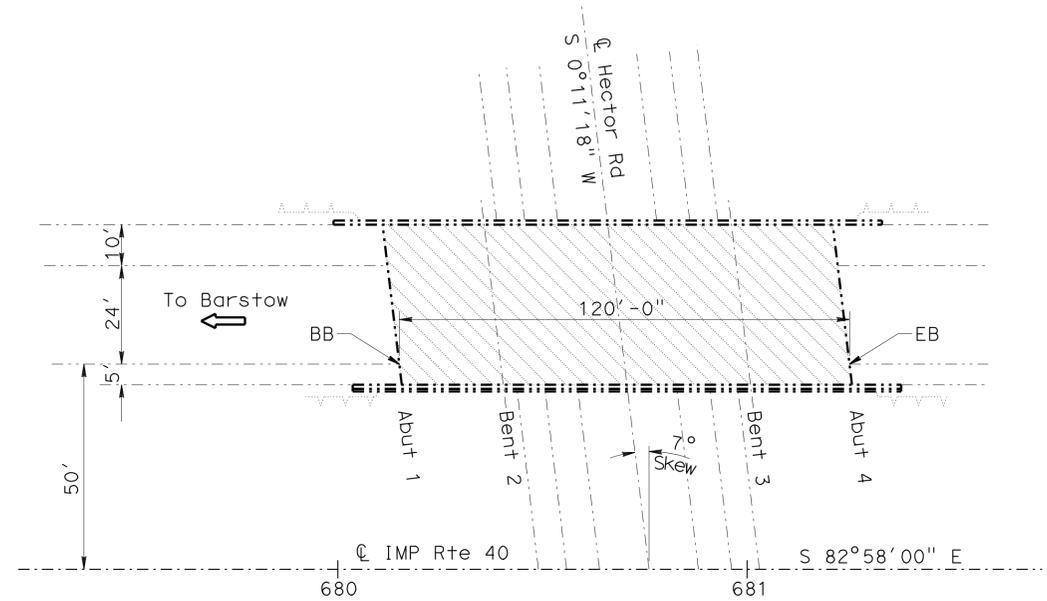


**FORT CADY ROAD OC**

Br No. 54-0710, Rte 40, PM R23.33  
SCALE: 1" = 20'

FORT CADY RD OC #54-0710  
QUANTITIES

REMOVE UNSOUND CONCRETE	17 CF
CLEAN BRIDGE DECK	6,608 SQFT
RAPID SETTING CONCRETE (PATCH)	17 CF
TREAT BRIDGE DECK	6,608 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	83 GAL



**HECTOR ROAD UC**

Br No. 54-0719L, Rte 40, PM R32.5  
SCALE: 1" = 20'

HECTOR RD UC #54-0719L  
QUANTITIES

REMOVE UNSOUND CONCRETE	12 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	4,680 SQFT
RAPID SETTING CONCRETE (PATCH)	12 CF
FURNISH POLYESTER CONCRETE OVERLAY	293 CF
PLACE POLYESTER CONCRETE OVERLAY	4,680 SQFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.  
Various  
POST MILE  
Varies

**ROUTE 40 BRIDGES  
GENERAL PLAN NO. 4**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 08  
EA OP1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

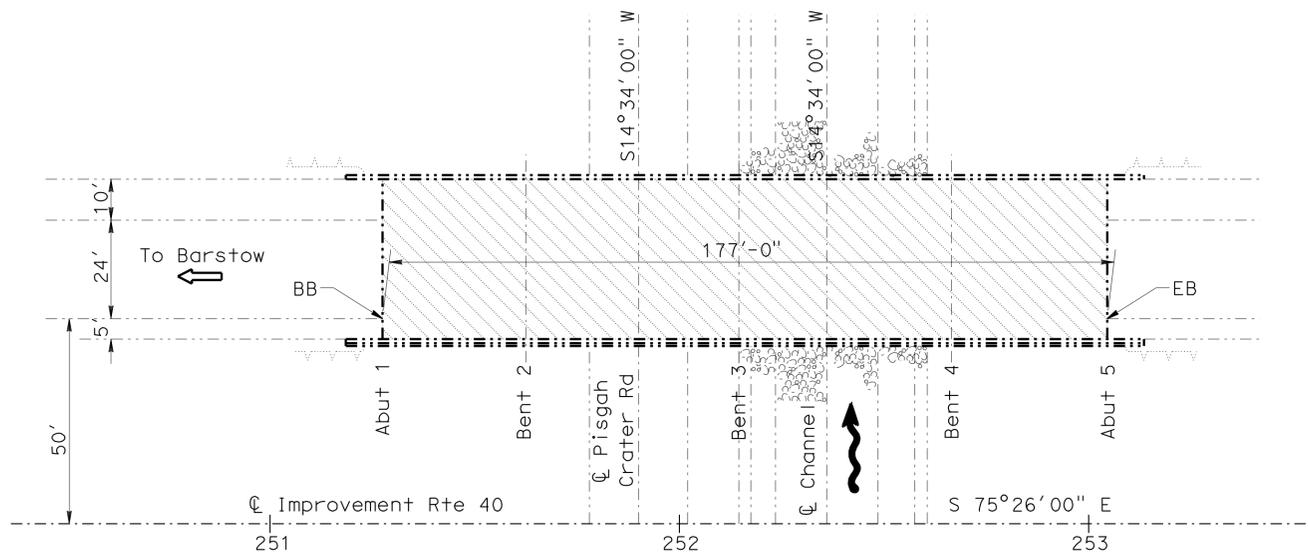
03-11-10	05-17-10	04-28-10	05-18-10	05-11-10	06-29-10	07-07-10	09-01-10
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SHEET 4 OF 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	16	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/11		
CIVIL			STATE OF CALIFORNIA		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.					

**LEGEND:**

- Indicates existing
- ➔ Indicates direction of traffic
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete

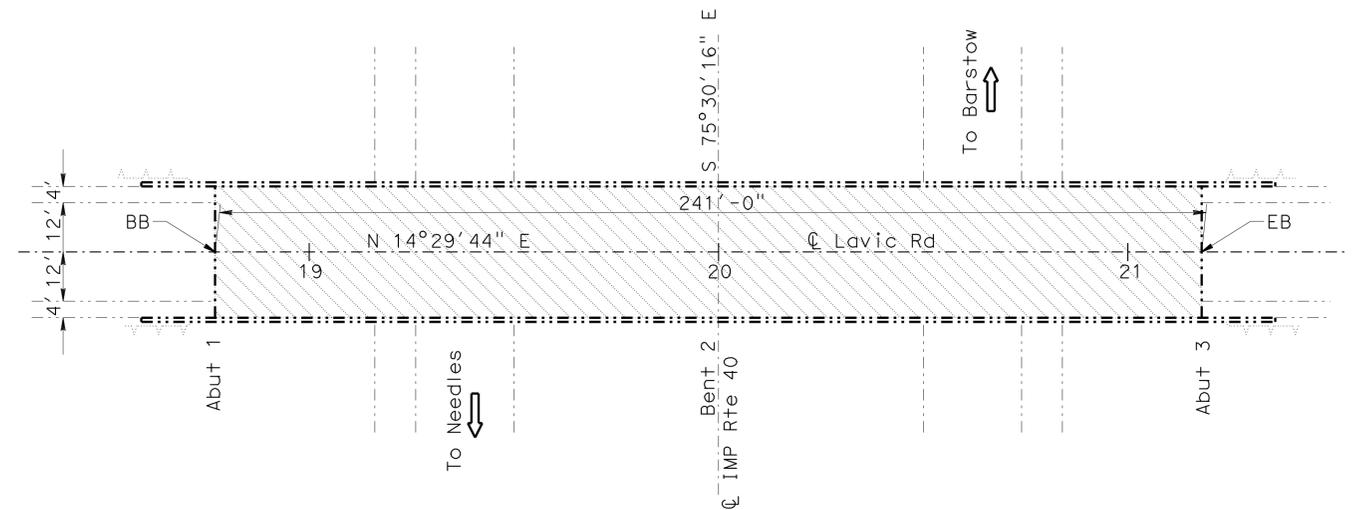


**PISGAH CRATER ROAD UC**

Br No. 54-0691L, Rte 40, PM R37.27  
SCALE: 1" = 20'

PISGAH CRATER RD UC #54-0691L  
QUANTITIES

REMOVE UNSOUND CONCRETE	17 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	6,903 SQFT
RAPID SETTING CONCRETE (PATCH)	17 CF
FURNISH POLYESTER CONCRETE OVERLAY	431 CF
PLACE POLYESTER CONCRETE OVERLAY	6,903 SQFT



**LAVIC ROAD OC**

Br No. 54-0734, Rte 40, PM R41.91  
SCALE: 1" = 20'

LAVIC RD OC #54-0734  
QUANTITIES

REMOVE UNSOUND CONCRETE	20 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	7,712 SQFT
RAPID SETTING CONCRETE (PATCH)	20 CF
FURNISH POLYESTER CONCRETE OVERLAY	482 CF
PLACE POLYESTER CONCRETE OVERLAY	7,712 SQFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE  
DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 40 BRIDGES  
GENERAL PLAN NO. 5**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 08  
EA OP1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

03-11-10	05-17-10	04-16-10	05-18-10	05-11-10	06-28-10	07-07-10	09-01-10
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SHEET 5 OF 14

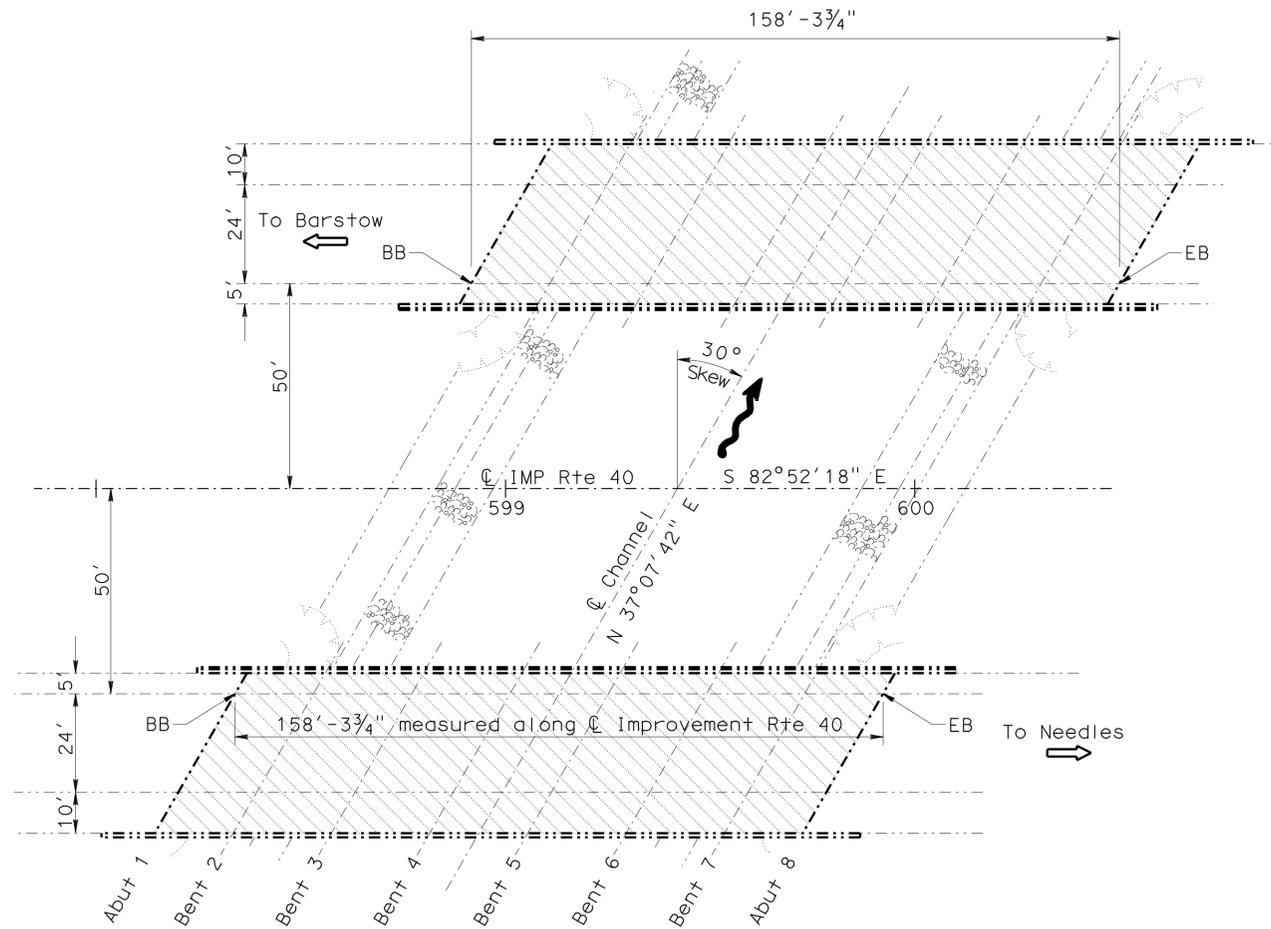
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	17	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.			REGISTERED PROFESSIONAL ENGINEER EDWARD GUOJUN LI No. C56706 Exp. 06/30/11 CIVIL STATE OF CALIFORNIA		

**LEGEND:**

- Indicates existing
- ⇒ Indicates direction of traffic
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete

SAND HILL WASH #54-0736L/R  
QUANTITIES

REMOVE UNSOUND CONCRETE	26 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	10,296 SQFT
RAPID SETTING CONCRETE (PATCH)	26 CF
FURNISH POLYESTER CONCRETE OVERLAY	644 CF
PLACE POLYESTER CONCRETE OVERLAY	10,296 SQFT



**ARGOS WASH BRIDGE**

Br No. 54-0737L/R, Rte 40, PM R43.84  
SCALE: 1" = 20'

ARGOS WASH #54-0737L/R  
QUANTITIES

REMOVE UNSOUND CONCRETE	32 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	12,348 SQFT
RAPID SETTING CONCRETE (PATCH)	32 CF
FURNISH POLYESTER CONCRETE OVERLAY	772 CF
PLACE POLYESTER CONCRETE OVERLAY	12,348 SQFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE  
DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

**ROUTE 40 BRIDGES  
GENERAL PLAN NO. 6**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3

CU 08  
EA OP1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

03-11-10	05-11-10	04-28-10	05-18-10	06-29-10	07-07-10	09-01-10
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SHEET 6 OF 14

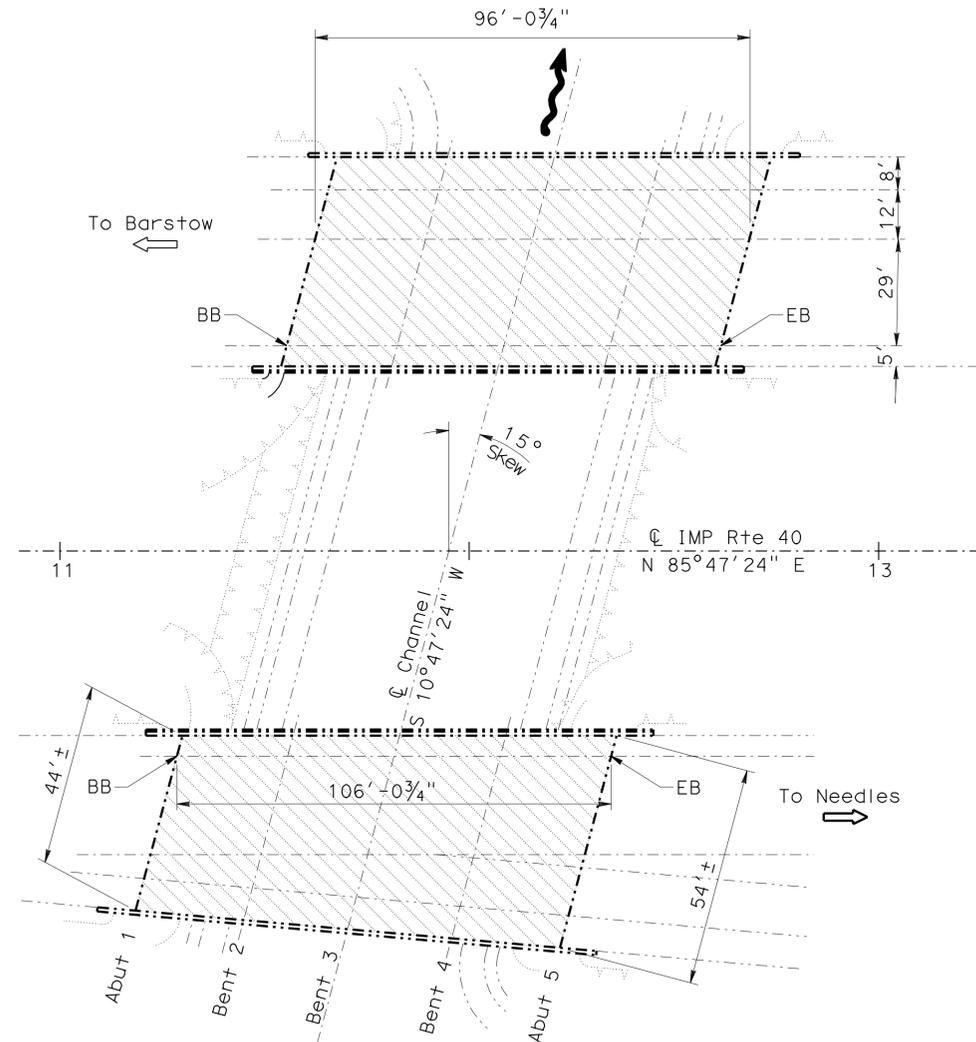
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	18	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/11		
CIVIL			STATE OF CALIFORNIA		

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**LEGEND:**

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- ➔ Indicates direction of traffic
- ▨ Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete



**WEST LUDLOW WASH BRIDGE**

Br No. 54-0079L/R, Rte 40, PM R49.71  
SCALE: 1" = 20'

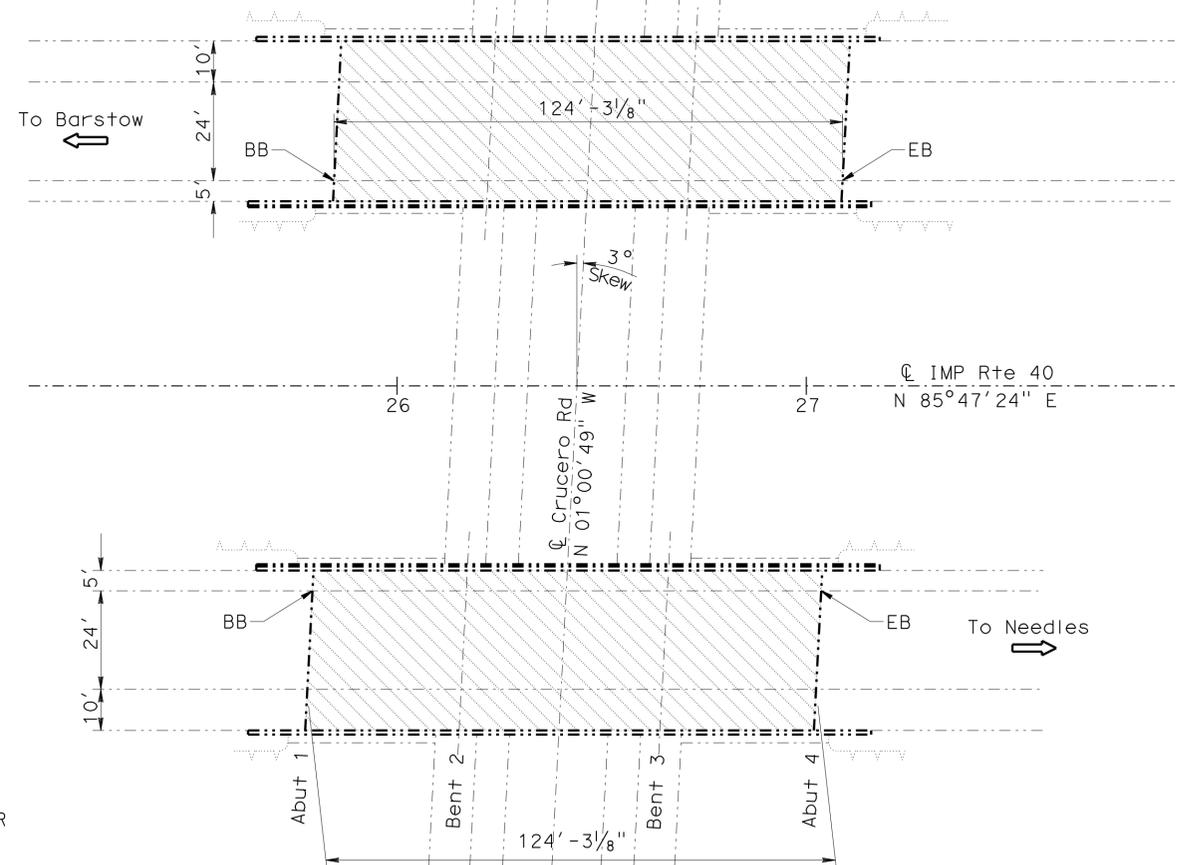


**WEST LUDLOW WASH #54-0079L/R**  
QUANTITIES

- REMOVE UNSOUND CONCRETE 27 CF
- PREPARE CONCRETE BRIDGE DECK SURFACE 10,440 SQFT
- RAPID SETTING CONCRETE (PATCH) 27 CF
- FURNISH POLYESTER CONCRETE OVERLAY 652 CF
- PLACE POLYESTER CONCRETE OVERLAY 10,440 SQFT

**CRUCERO RD UC #54-0735L/R**  
QUANTITIES

- REMOVE UNSOUND CONCRETE 24 CF
- PREPARE CONCRETE BRIDGE DECK SURFACE 9,692 SQFT
- RAPID SETTING CONCRETE (PATCH) 24 CF
- FURNISH POLYESTER CONCRETE OVERLAY 606 CF
- PLACE POLYESTER CONCRETE OVERLAY 9,692 SQFT



**CRUCERO ROAD UC**

Br No. 54-0735L/R, Rte 40, PM R49.98  
SCALE: 1" = 20'



NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
POST MILE Varies

ROUTE 40 BRIDGES  
GENERAL PLAN NO. 7

CU 08  
EA OP1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

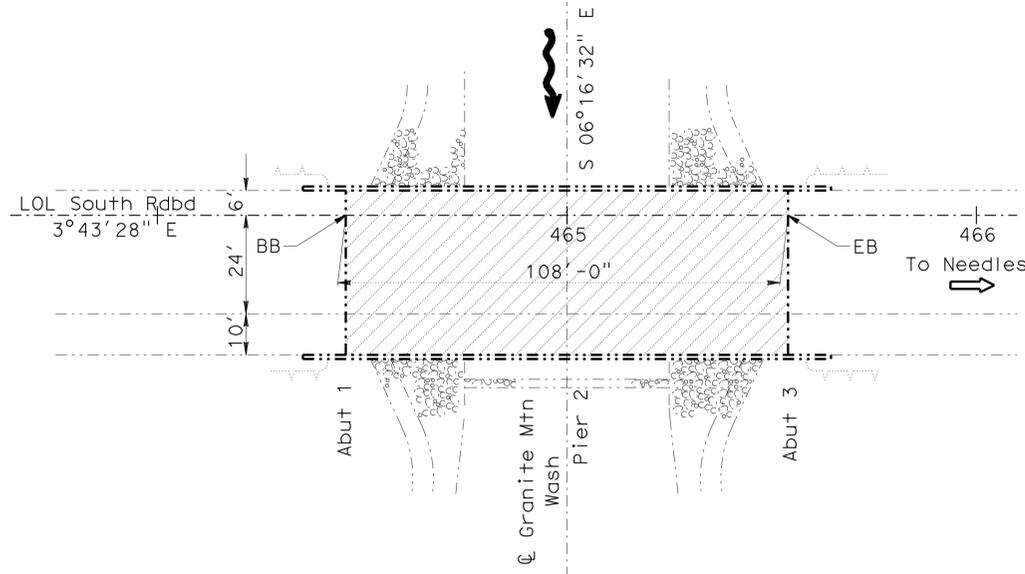
03-17-10	04-08-10	05-18-10	05-11-10	06-29-10	07-07-10	09-01-10
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SHEET 7 OF 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	19	25
		Edward Li 06-25-10		REGISTERED CIVIL ENGINEER DATE	
		12-27-10		PLANS APPROVAL DATE	
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**LEGEND:**

- Indicates existing
- ➔ Indicates direction of traffic
- ▨ Indicates limits of clean and treat bridge deck with high molecular weight methacrylate. Prior to bridge deck treatment, remove unsound concrete and patch with rapid setting concrete

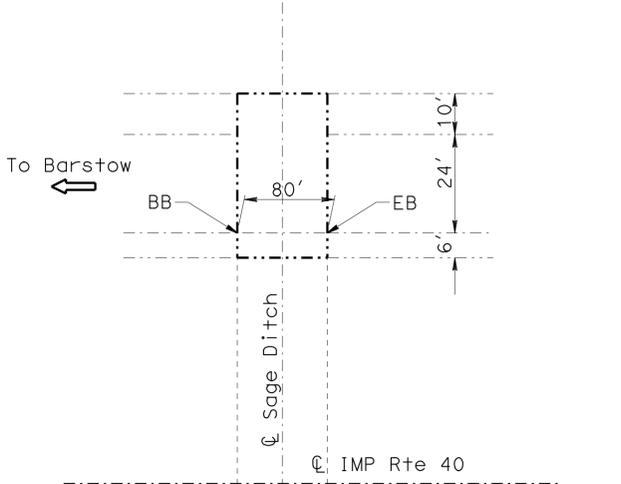


GRANITE MTN WASH #54-0852R  
QUANTITIES

REMOVE UNSOUND CONCRETE	11 CF
CLEAN BRIDGE DECK	4,320 SQFT
RAPID SETTING CONCRETE (PATCH)	11 CF
TREAT BRIDGE DECK	4,320 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	54 GAL

**GRANITE MOUNTAIN WASH BRIDGE**

Br No. 54-0852R, Rte 40, PM R76.5  
Scale 1"=20'



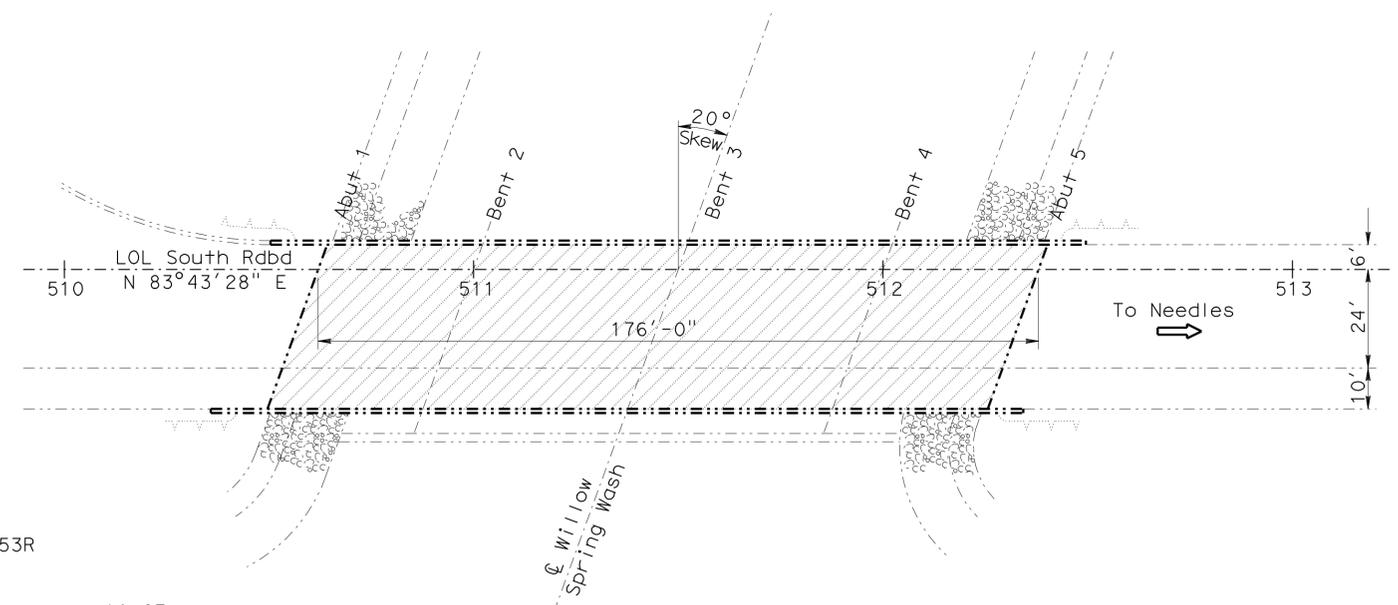
**SAGE DITCH**

Br No. 54-1020, Rte 40, PM R73.1  
SCALE: 1" = 20'

SAGE DITCH #54-1020  
QUANTITIES

REPAIR SPALLED SURFACE AREA	4 SQFT
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- Patch 18"x14"x3" spall at the soffit of culvert
- Patch 24"x14"x3" spall at the soffit of culvert



**WILLOW SPRING WASH BRIDGE**

Br No. 54-0853R, Rte 40, PM R77.37  
SCALE: 1" = 20'

WILLOW SPRING WASH #54-0853R  
QUANTITIES

REMOVE UNSOUND CONCRETE	18 CF
CLEAN BRIDGE DECK	7,040 SQFT
RAPID SETTING CONCRETE (PATCH)	18 CF
TREAT BRIDGE DECK	7,040 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	88 GAL

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

TONY D. BRAKE DESIGN ENGINEER	DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
	QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson

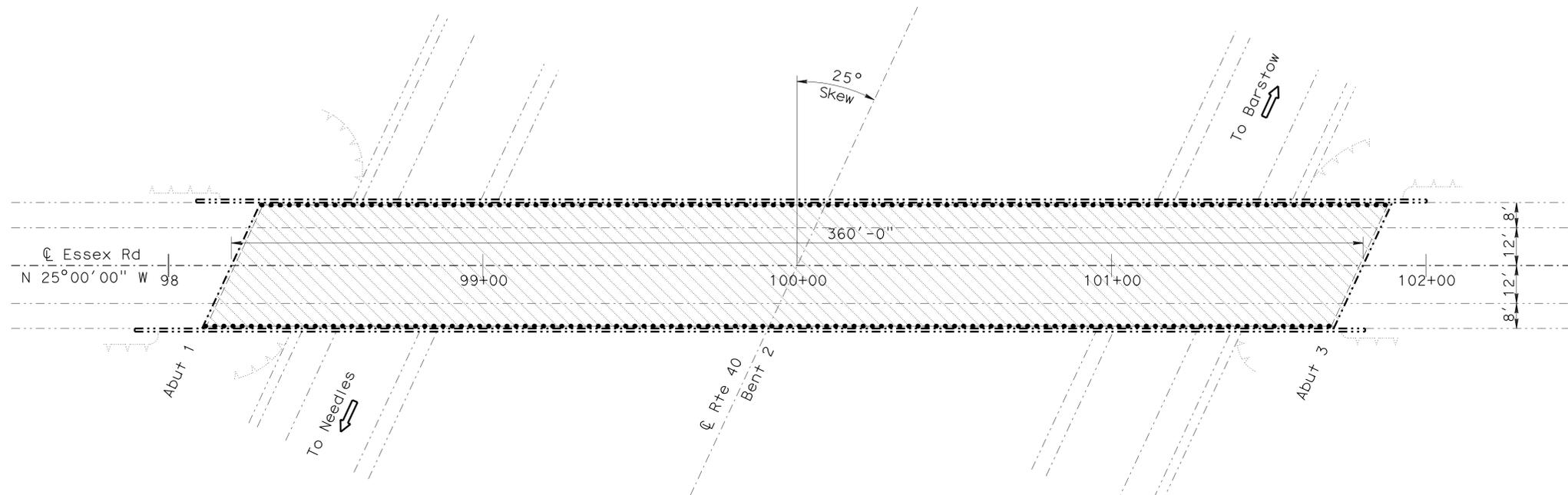
STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	BRIDGE NO.	Various
	POST MILE	Varies
	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	

ROUTE 40 BRIDGES GENERAL PLAN NO. 8		SHEET 8 OF 14
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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	20	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/11		
CIVIL			STATE OF CALIFORNIA		
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**LEGEND:**

- Indicates existing
- ➔ Indicates direction of traffic
-  Indicates limits of prepare concrete bridge deck surface, furnish and place new 3/4" thick polyester concrete overlay. Prior to placing new polyester concrete overlay, remove unsound concrete and patch with rapid setting concrete
- ..... Indicates limits of prepare existing Type 9 barrier by removing unsound concrete and patch with rapid setting concrete



**ESSEX ROAD OC**

Br No. 54-0896, Rte 40, PM R99.73  
SCALE: 1" = 20'



ESSEX RD OC #54-0896

**QUANTITIES**

REMOVE UNSOUND CONCRETE	36 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	14,400 SQFT
RAPID SETTING CONCRETE (PATCH)	36 CF
REPAIR SPALLED SURFACE AREA	18 SQFT
FURNISH POLYESTER CONCRETE OVERLAY	900 CF
PLACE POLYESTER CONCRETE OVERLAY	14,400 SQFT

NOTE:  
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

<p><b>TONY D. BRAKE</b> DESIGN ENGINEER</p>	DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD	<p><b>STATE OF CALIFORNIA</b> DEPARTMENT OF TRANSPORTATION</p>	<p><b>DIVISION OF MAINTENANCE</b> STRUCTURE MAINTENANCE DESIGN</p>	BRIDGE NO.	<p><b>ROUTE 40 BRIDGES</b> GENERAL PLAN NO. 9</p>	
	DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom			CHECKED Edward Li		POST MILE
	QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson			PLANS AND SPECS COMPARED Kevin Ellingson		Varies
STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)						ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA OP1501	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES	SHEET 9 OF 14

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	21	25

Edward Li 06-25-10  
 REGISTERED CIVIL ENGINEER DATE

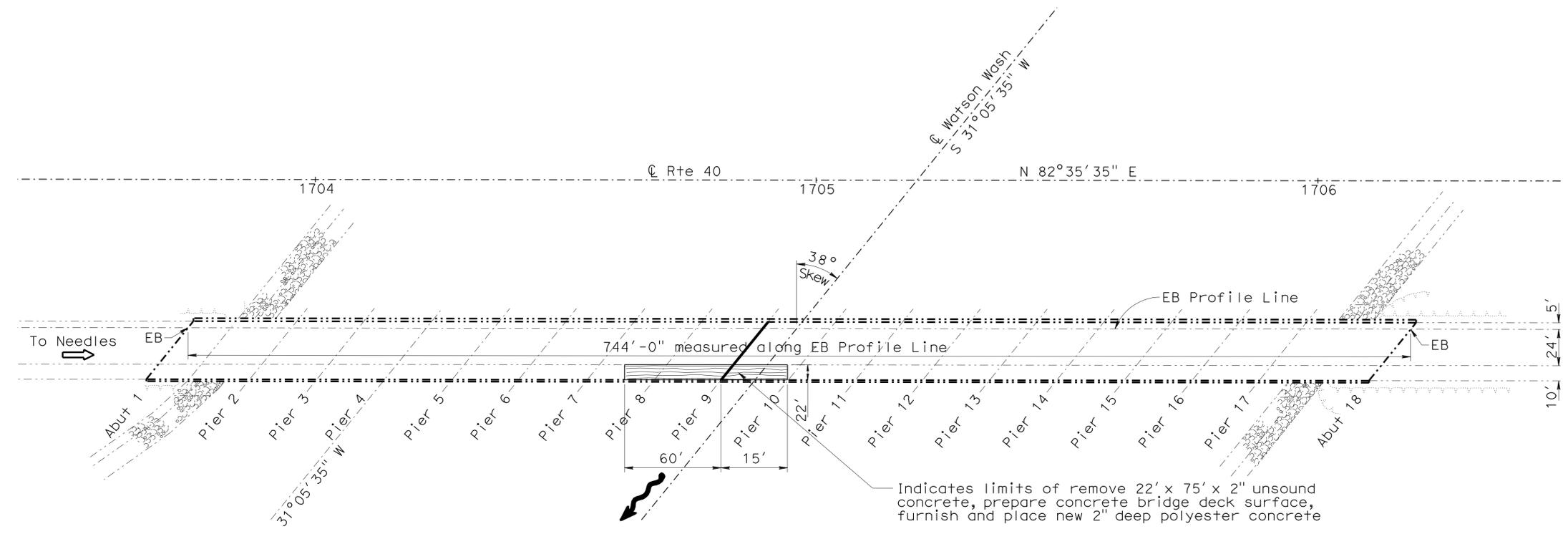
12-27-10  
 PLANS APPROVAL DATE

No. C56706  
 Exp. 06/30/11  
 CIVIL

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**LEGEND:**

- Indicates existing
- ⇒ Indicates direction of traffic
- ↘ Indicates limits of existing joint seal removal and placement of new joint seal. Prior to placement of new joint seal, repair joint spalls



Indicates limits of remove 22' x 75' x 2" unsound concrete, prepare concrete bridge deck surface, furnish and place new 2" deep polyester concrete

**WATSON WASH BRIDGE**

Br No. 54-1282R, Rte 40, PM 105.9  
 NO SCALE



WATSON WASH #54-1282R  
 QUANTITIES

REMOVE UNSOUND CONCRETE	275 CF
PREPARE CONCRETE BRIDGE DECK SURFACE	1,650 SQFT
CLEAN EXPANSION JOINT	50 LF
FURNISH POLYESTER CONCRETE OVERLAY	275 CF
PLACE POLYESTER CONCRETE OVERLAY	1,650 SQFT
JOINT SEAL (MR 1 1/2")	50 LF

TONY D. BRAKE  
 DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson
				CHECKED Edward Li
				PLANS AND SPECS COMPARED Kevin Ellingson

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO. Various  
 POST MILE Varies

**ROUTES 40 BRIDGES  
 GENERAL PLAN NO. 10**

STRUCTURES MAINTENANCE GENERAL PLAN SHEET (ENGLISH) (REV. 2/4/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



CU 08  
 EA OP1501

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES							
03-11-10	03-17-10	04-08-10	05-18-10	05-11-10	06-28-10	07-09-10	09-01-10

SHEET 10 OF 14

USERNAME => FP0115 DATE PLOTTED => 29-DEC-2010 TIME PLOTTED => 11:28

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	22	25

Edward Li 06-25-10  
REGISTERED CIVIL ENGINEER DATE

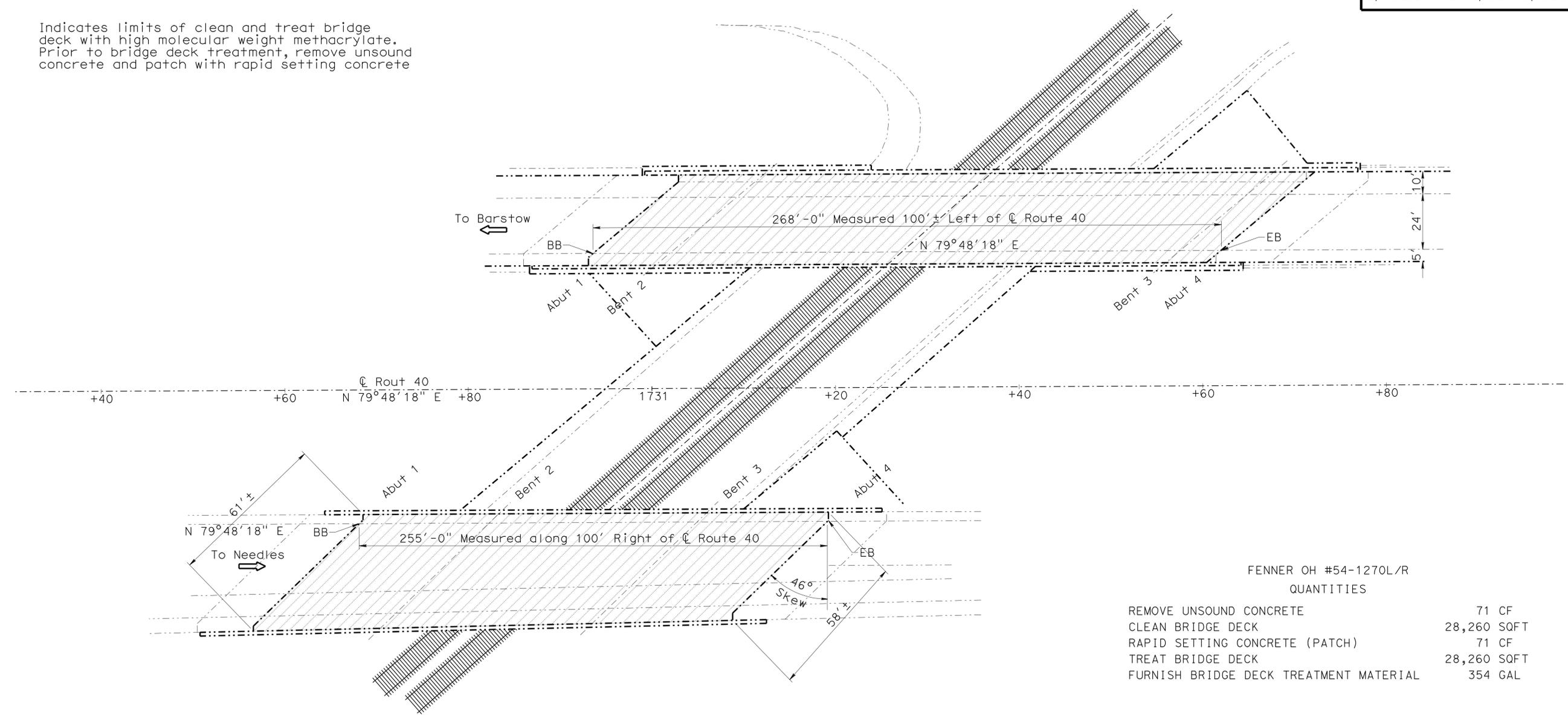
12-27-10  
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
EDWARD GUOJUN LI  
No. C56706  
Exp. 06/30/11  
CIVIL  
STATE OF CALIFORNIA

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FENNER OH #54-1270L/R  
QUANTITIES

REMOVE UNSOUND CONCRETE	71 CF
CLEAN BRIDGE DECK	28,260 SQFT
RAPID SETTING CONCRETE (PATCH)	71 CF
TREAT BRIDGE DECK	28,260 SQFT
FURNISH BRIDGE DECK TREATMENT MATERIAL	354 GAL

**FENNER OH**  
Br No. 54-1270L/R, Rte 40, PM R107.56  
NO SCALE

TONY D. BRAKE  
DESIGN ENGINEER

DESIGN	BY Edward Li	CHECKED Mazin Ibrahim	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE PERMIT DESIGN LOAD
DETAILS	BY Clayton Tom	CHECKED Edward Li	LAYOUT	BY Clayton Tom
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim	SPECIFICATIONS	BY Kevin Ellingson

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various	<b>ROUTES 40 BRIDGES GENERAL PLAN NO. 11</b>
POST MILE	Varies	
REVISION DATES		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	23	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			Exp. 06/30/11		
CIVIL			STATE OF CALIFORNIA		

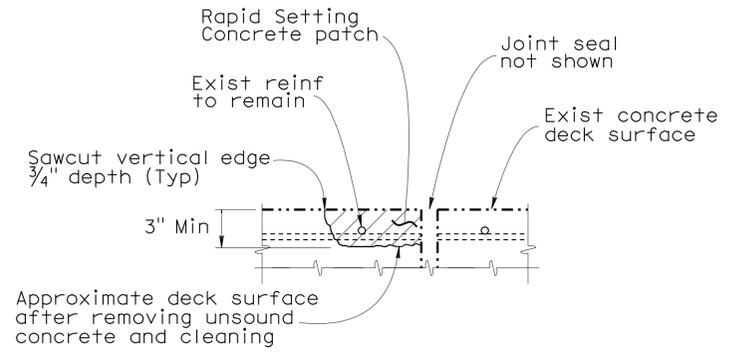
*The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.*

JOINT SEAL TABLE									
BRIDGE NAME	BRIDGE NUMBER	LOCATION	MINIMUM "MR" (INCHES)	APPROX LENGTH (FT)	EXISTING WATERSTOP	APPROX DEPTH TO CLEAN EXP JOINT (INCHES)	APPROX DEPTH OF JOINT SPALLS (INCHES)	APPROX WIDTH OF JOINT SPALLS (INCHES)	APPROX LENGTH OF JOINT SPALLS (FEET)
Watson Wash Bridge	54-1282R	Pier 9	1 1/2	50	No	18	5	6	5

**NOTES:**

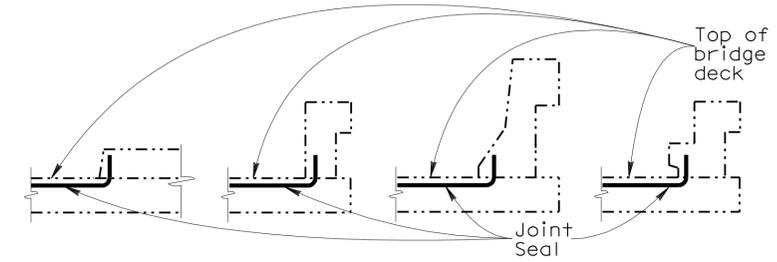
The following notes apply to JOINT SEAL TYPE A:  
 Install Joint Seal (MR = 1/2") or Silicone Joint Seal 3" up into curb or barrier rail on the low side of the deck where deck joint aligns with curb or barrier rail joint.  
 For details not shown see RSP B6-21 sheet.

The following notes apply to JOINT SEAL TYPE B:  
 1) Seal must satisfy both minimum Movement Rating (MR) and minimum W1 requirements.  
 2) Minimum W1 is the calculated maximum width of the joint based on field measurements. After the joints have been cleaned, minimum W1 is to be recalculated by the Engineer.  
 3) W1 shall be the smaller of the values determined as follows:  
 A) 0.85 times the manufacturer's designed minimum uncompressed width of the seal.  
 B) The width of the seal on the third successive test cycle of the pressure deflection test, when compressed to an average pressure of 3.0 PSI.  
 4) Bend Type B joint seal 6 inches up into curb or rail on the low side of the deck where deck joint matches curb or rail joint.  
 For details not shown see RSP B6-21 sheet.



**JOINT SPALL REPAIR DETAIL**

Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

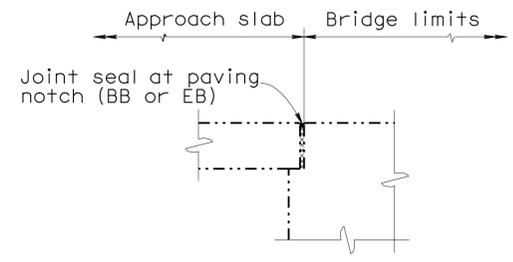


BARRIER RAIL

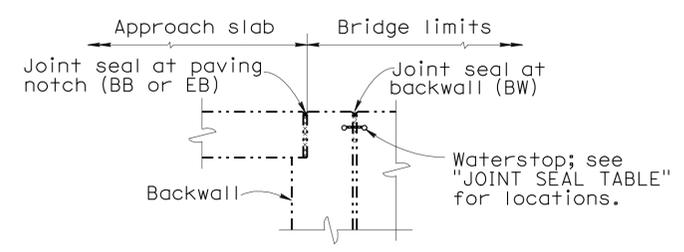
**JOINT SEAL AT LOW SIDE OF DECK**

Note: Details shown for illustration purposes only.

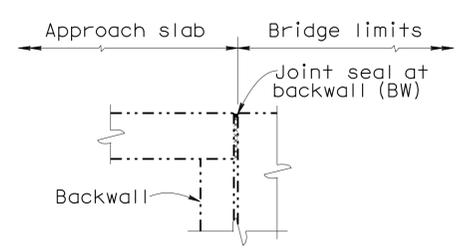
For use only where deck joint matches the sidewalk, curb or barrier rail joint.



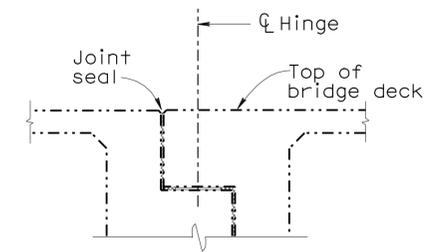
DIAPHRAGM ABUTMENT



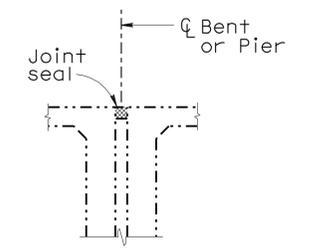
ABUTMENT WITH BACKWALL AND PAVING NOTCH



ABUTMENT WITH BACKWALL



HINGE



BENT OR PIER

**JOINT SEAL LOCATION**

NO SCALE

NOTE:  
 THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

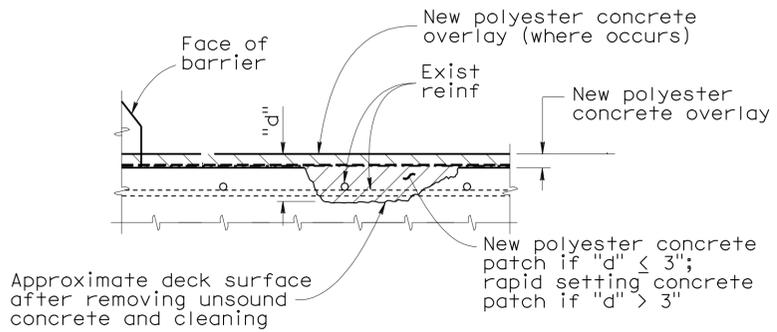
DESIGN	BY	Edward Li	CHECKED	Mazin Ibrahim	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF MAINTENANCE STRUCTURE MAINTENANCE DESIGN	BRIDGE NO.	Various	ROUTES 40 BRIDGES			
	DETAILS	BY	Clayton Tom	CHECKED			Edward Li			POST MILE	Varies	MISCELLANEOUS DETAILS NO. 1
	QUANTITIES	BY	Edward Li	CHECKED			Mazin Ibrahim			REVISION DATES		
STRUCTURES MAINTENANCE DETAIL SHEET (ENGLISH) (REV. 2/4/05)					ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	CU 08 EA 0P1501	DISREGARD PRINTS BEARING EARLIER REVISION DATES		03-11-10 05-11-10 04-08-10 05-18-10 05-11-10 06-28-10 07-07-10 09-01-10	12	14	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	24	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
No. C56706			REGISTERED PROFESSIONAL ENGINEER		
Exp. 06/30/11			EDWARD GUOJUN LI		
CIVIL			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.					

DECK REPAIR TABLE REMOVE UNSOUND CONCRETE AND RAPID SETTING CONCRETE (PATCH)			
BRIDGE NAME	BRIDGE NUMBER	APPROXIMATE AREA DAMAGED (%)	APPROXIMATE DEPTH (INCHES)
W40-S15 Connector OC	54-1175F	1	3
Nebo St UC	54-0662R	1	3
A Street OC	54-0663	1	3
Newberry Rd OC	54-0709	1	3
Fort Cady Rd OC	54-0710	1	3
Hector Rd UC	54-0719L	1	3
Pisgah Crater Rd UC	54-0691L	1	3
Lavic Rd OC	54-0734	1	3
Argos Wash (Lt)	54-0737L	1	3
Argos Wash (Rt)	54-0737R	1	3
Sand Hill Wash Br (Lt)	54-0736L	1	3
Sand Hill Wash Br (Rt)	54-0736R	1	3
West Ludlow Wash Br (Lt)	54-0079L	1	3
West Ludlow Wash Br (Rt)	54-0079R	1	3
Crucero Rd UC (Lt)	54-0735L	1	3
Crucero Rd UC (Rt)	54-0735R	1	3
Granite Mtn Wash	54-0852R	1	3
Willow Spring Wash	54-0853R	1	3
Essex Rd OC	54-0896	1	3
Fenner OH (Lt)	54-1270L	1	3
Fenner OH (Rt)	54-1270R	1	3

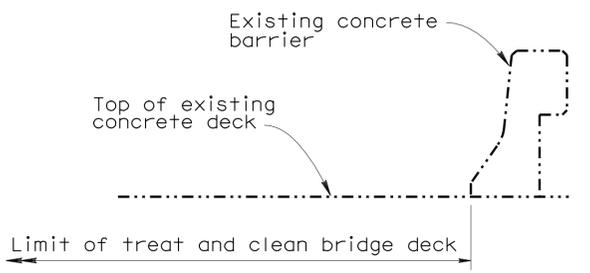
- DECK REPAIR NOTES:**
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
  - It is the responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
  - When existing transverse reinforcement is exposed in the deck surface, saw cutting may be waived with the approval of the Engineer.
  - The saw cut depth shall not exceed  $\frac{3}{4}$  inch or the concrete cover over the top steel reinforcing bars, whichever is less.
  - Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original deck surface with rapid setting concrete patch.

\* Only 1 cu ft Rapid Setting Concrete Patch  
 \*\* Only Unsound Concrete Remove, in hatched area.

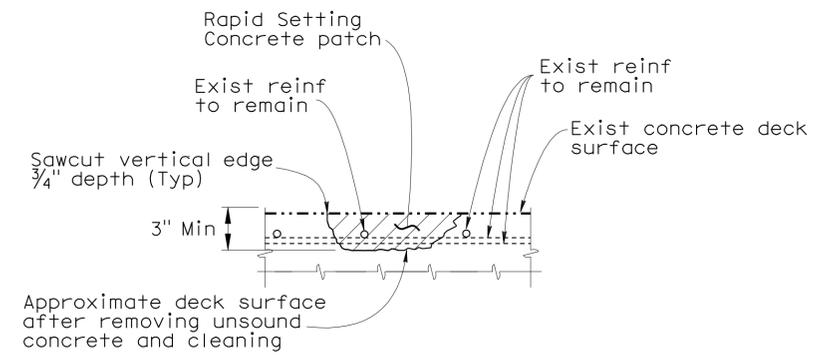


**DECK OVERLAY DETAIL**

Locations to be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.

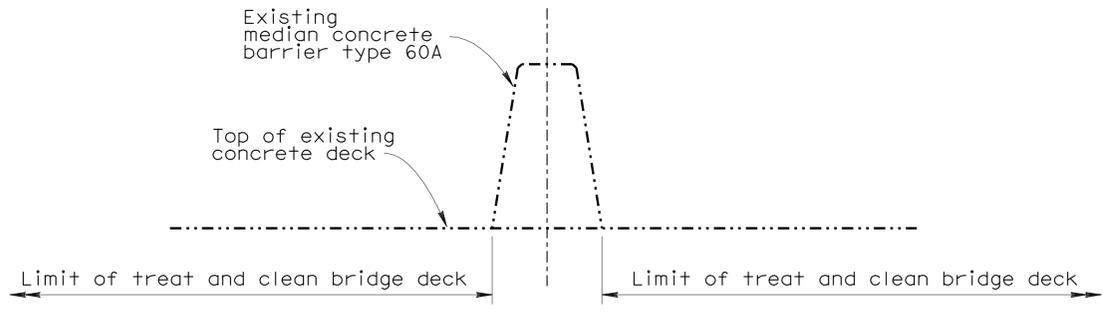


**EOD BARRIER**

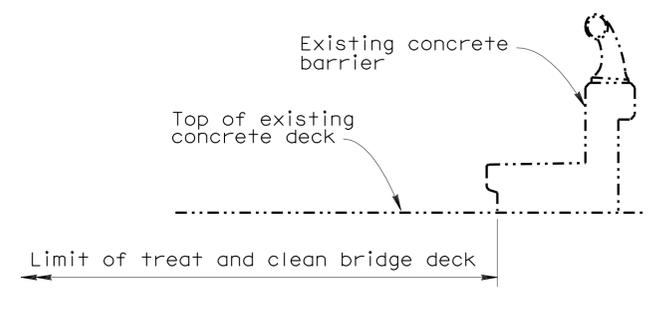


**DECK DAMAGE REPAIR DETAIL**

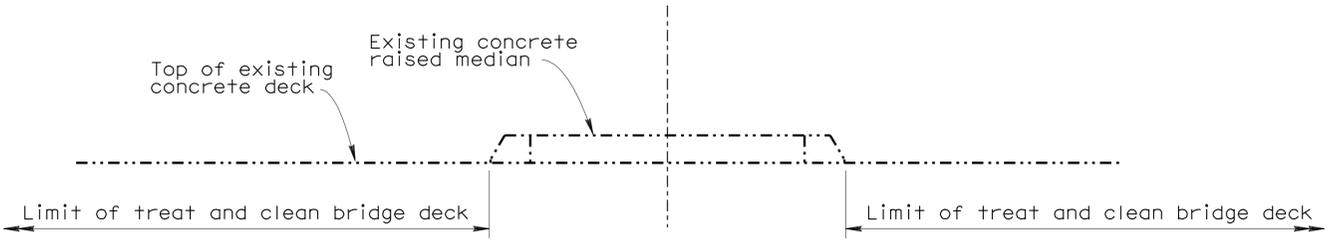
Location will be determined by the Engineer. Reinforcement may be encountered during deck concrete removal and is to remain undamaged.



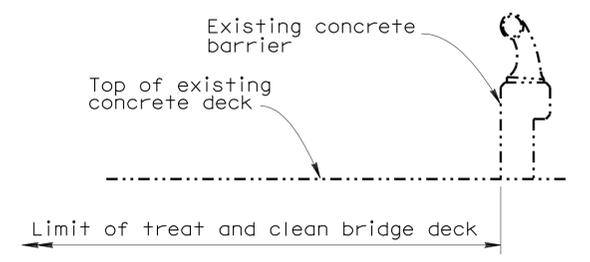
**MEDIAN BARRIER**



**SIDEWALK BARRIER TYPE 2**



**RAISED MEDIAN**



**SIDEWALK BARRIER TYPE 1**

**TYPICAL LIMITS OF DECK WORK**

NO SCALE

NOTE:  
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DESIGN	BY Edward Li	CHECKED Mazin Ibrahim
DETAILS	BY Clayton Tom	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim

STATE OF CALIFORNIA  
 DEPARTMENT OF TRANSPORTATION

DIVISION OF MAINTENANCE  
 STRUCTURE MAINTENANCE DESIGN

BRIDGE NO.	Various
POST MILE	Varies

ROUTE 40 BRIDGES  
 MISCELLANEOUS DETAILS NO. 2

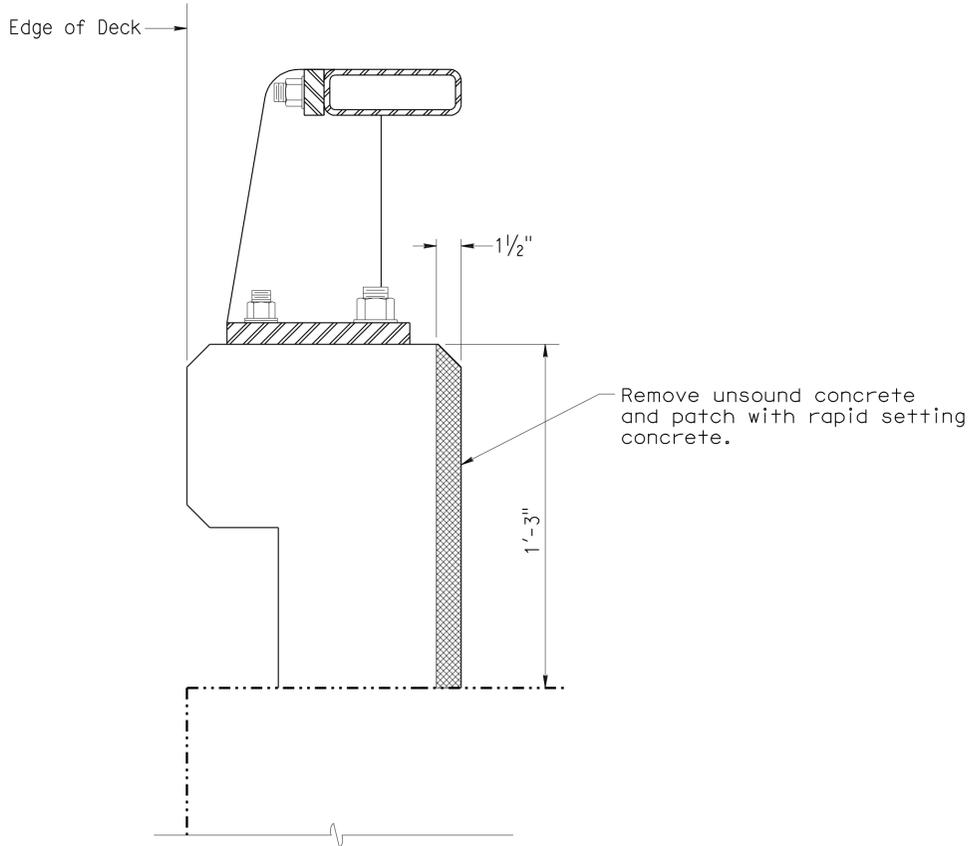
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
08	SBd	40	0.0/R107.6	25	25
Edward Li			06-25-10	REGISTERED CIVIL ENGINEER DATE	
12-27-10			PLANS APPROVAL DATE		
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BARRIER RAIL REPAIR					
BRIDGE NAME	BRIDGE NUMBER	BARRIER AREA (SQ FT)	APPROXIMATE AREA DAMAGED	REMOVE UNSOUND CONCRETE (CF)	RAPID SETTING CONCRETE PATCH (CF)
Essex Road OC	54-0896	900	2%	3	3

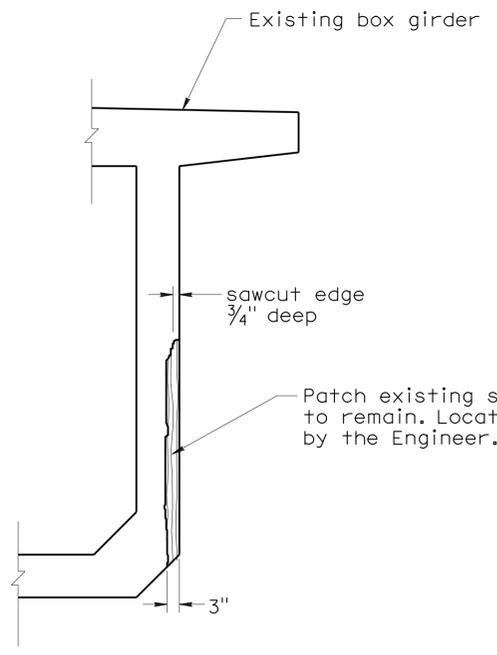
\*Approximate removal is 1.5"

**NOTES:**

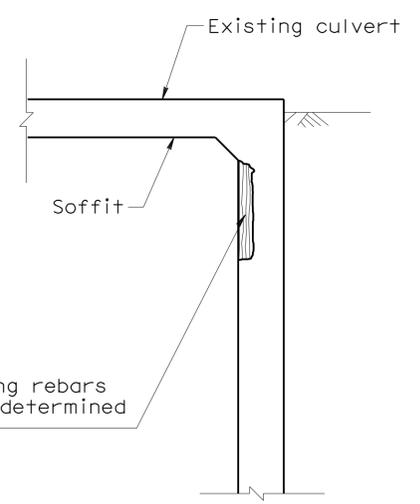
- Existing reinforcement shall be protected in place during unsound concrete removal and patching operations.
- It is the responsibility of the Contractor to repair any reinforcement that is accidentally cut by saw cutting operations.
- Remove unsound Portland Cement concrete and unsound concrete patches to expose sound, hard concrete substrate. Replace original surface with rapid setting.



**BARRIER RAILING TYPE 9 REPAIR DETAIL**



**BOX GIRDER PATCHING DETAIL**



**CULVERT SOFFIT REPAIR DETAIL**

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DETAILS	BY Clayton Tom	CHECKED Edward Li
QUANTITIES	BY Edward Li	CHECKED Mazin Ibrahim

**STATE OF CALIFORNIA**  
DEPARTMENT OF TRANSPORTATION

**DIVISION OF MAINTENANCE**  
**STRUCTURE MAINTENANCE DESIGN**

BRIDGE NO.	Various
POST MILE	Varies

**ROUTE 40 BRIDGES**  
**MISCELLANEOUS DETAILS NO. 3**

USERNAME => hp0115 DATE PLOTTED => 29-DEC-2010 TIME PLOTTED => 11:29