

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yolo, Sac	80	R10.9/R11.7, MO.0/M10.4	2	1012

REGISTERED CIVIL ENGINEER  
A. Y. FONG  
No. 64343  
Exp. 6-30-11  
CIVIL

6-15-10 DATE  
9-7-10 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.

**DESIGN DESIGNATIONS**

T = 6%  
D(EB) = 55-57%  
YOLO/SACRAMENTO COUNTY LINE  
WEST EL CAMINO AVENUE  
ROUTE 5/80 SEPARATION  
NORTHGATE BOULEVARD  
NORWOOD AVENUE  
RALEY BOULEVARD  
WINTERS STREET  
ROUTE 80 (MAIN LINE)  
AUXILIARY LANES  
ROUTE 80 HOV LANES

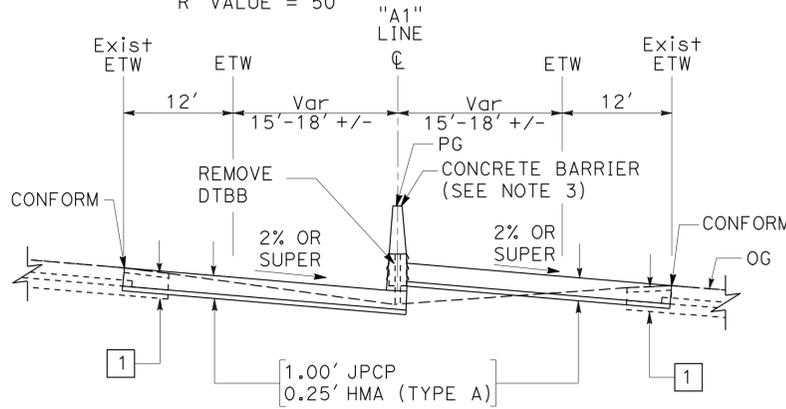
V = 70 MPH  
D(WB) = 53-64%  
AADT(2005) = 81,000  
AADT(2005) = 84,000  
AADT(2005) = 144,000  
AADT(2005) = 138,000  
AADT(2005) = 146,000  
AADT(2005) = 144,000  
AADT(2005) = 141,000  
TI = 15  
TI = 14.5  
TI = 12.5

AADT(2034) = 115,000  
AADT(2034) = 119,000  
AADT(2034) = 204,000  
AADT(2034) = 196,000  
AADT(2034) = 207,000  
AADT(2034) = 204,000  
AADT(2034) = 200,000  
"R" VALUE = 50  
"R" VALUE = 50  
"R" VALUE = 50

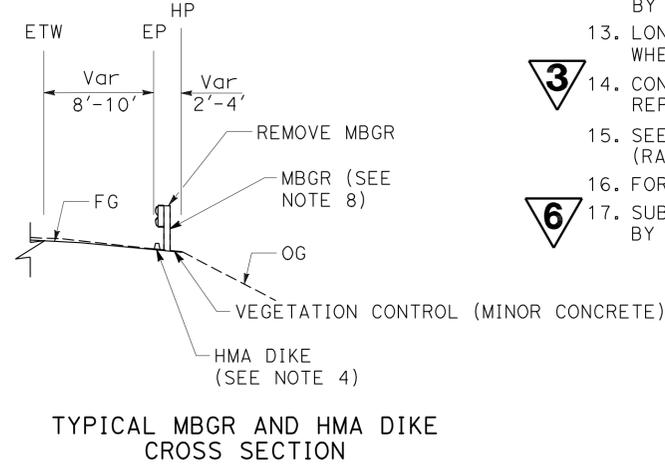
DDHV = 4,175  
DDHV = 4,329  
DDHV = 6,769  
DDHV = 5,737  
DDHV = 6,070  
DDHV = 6,455  
DDHV = 5,732

**ABBREVIATIONS**

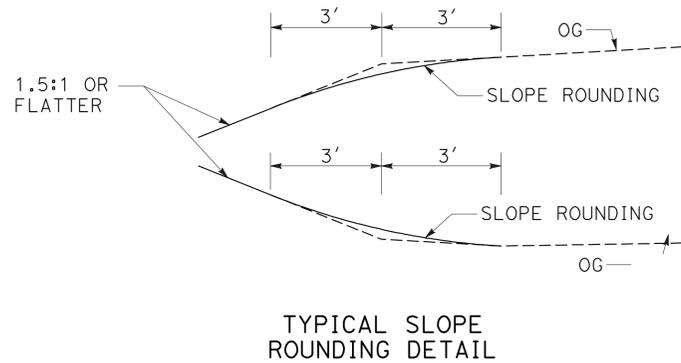
LTS LIME TREATED SOIL  
SUPER SUPERELEVATION  
TI TRAFFIC INDEX  
EOC EDGE OF CONCRETE  
GB GRADE BREAK  
LL LANE LINE  
CP CATCH POINT  
HOV HIGH OCCUPANCY VEHICLE  
RSC RAPID STRENGTH CONCRETE  
RHMA-O RUBBERIZED HOT MIX ASPHALT (TYPE O)  
FOB FACE OF BARRIER  
S/C SAWCUT  
TOB TOP OF BARRIER



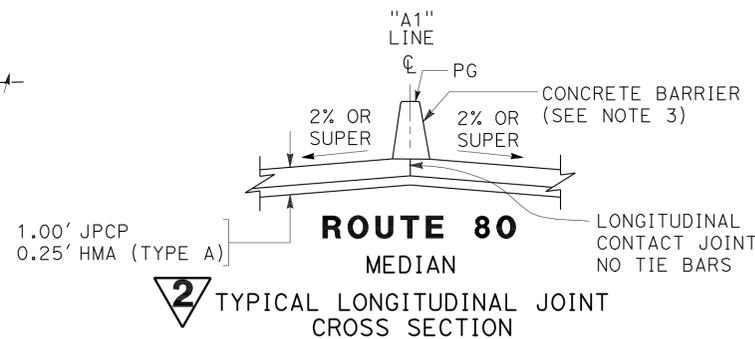
**ROUTE 80  
MEDIAN  
TYPICAL SUPERELEVATION  
CROSS SECTION**



**TYPICAL MBGR AND HMA DIKE  
CROSS SECTION**



**TYPICAL SLOPE  
ROUNDING DETAIL**



**ROUTE 80  
MEDIAN  
TYPICAL LONGITUDINAL JOINT  
CROSS SECTION**

**NOTES:**

- DIMENSIONS OF THE STRUCTURAL SECTIONS ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
- SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
- FOR BARRIER LOCATION AND TYPE, SEE LAYOUT SHEETS.
- FOR HMA DIKE AND CURB LOCATION AND TYPE, SEE LAYOUT SHEETS.
- EXISTING PAVEMENT SECTIONS SHOWN ARE BASED ON AS-BUILT INFORMATION AND ARE SUBJECT TO VARIATION DUE TO CONSTRUCTION TOLERANCES AND INTERIM ROADWAY MAINTENANCE ACTIVITIES.
- FOR LOCATION OF EDGE DRAINS, SEE DRAINAGE PLANS.
- SEE STRUCTURE PLANS FOR ADDITIONAL INFORMATION AND STRUCTURE QUANTITIES.
- FOR MBGR/DTBB LOCATION, SEE LAYOUT SHEETS.
- SEE LAYOUT AND CONSTRUCTION DETAILS FOR LOCATION OF TAPERS AND CONFIGURATION.
- FOR ACCURATE RIGHT OF WAY AND ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE DISTRICT OFFICE.
- SEE SUMMARY OF QUANTITIES FOR LOCATIONS AND LIMITS OF GRIND AND GROOVE CONCRETE PAVEMENT.
- CONTINUOUS OR INDIVIDUAL SLABS TO BE REPLACED AS DETERMINED BY THE ENGINEER.
- LONGITUDINAL FORMS SHALL BE USED TO PROVIDE CORRECT CROSS SLOPE WHEN REQUESTED BY ENGINEER.
- CONCRETE PAVEMENT SHALL BE GRIND AND GROOVED AFTER REPAIR/REPLACEMENT OF CONCRETE PAVEMENT.
- SEE QUANTITY SHEETS FOR LIMITS OF CONCRETE PAVEMENT (RAPID STRENGTH CONCRETE).
- FOR GUTTER LOCATIONS, SEE LAYOUT SHEETS.
- SUBGRADE ENHANCEMENT FABRIC TO BE PLACED AS DETERMINED BY THE ENGINEER.

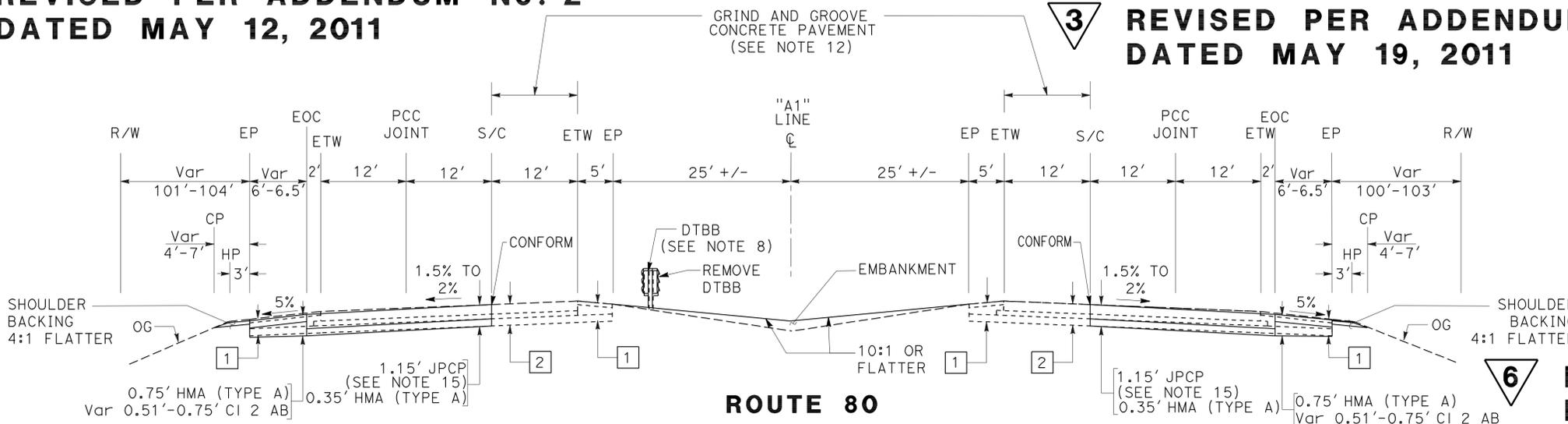
**TYPICAL STRUCTURAL SECTIONS**

**EXISTING**

- 0.25' HMA  
Var AB  
0.50' LTS
- 0.67' PCC  
0.33' CTB  
0.50' LTS
- 0.35' HMA  
0.65' CTB  
0.50' LTS
- 0.35' HMA  
Var AB  
0.50' LTS
- 0.06' HMA (OPEN GRADED)  
0.50' HMA  
0.25' ATPB  
0.90' CI AB  
1.10' CI AS
- 0.10' RHMA-O  
0.30' HMA  
0.50' ACB  
0.75' AS
- 0.15' RHMA-O  
0.50' HMA  
1.87' AB

**2** REVISED PER ADDENDUM No. 2  
DATED MAY 12, 2011

**3** REVISED PER ADDENDUM No. 3  
DATED MAY 19, 2011



**ROUTE 80  
WESTBOUND  
"A1" 239+22.5 TO 239+50**

**ROUTE 80  
EASTBOUND  
"A1" 239+22.5 TO 239+50**

**6** REVISED PER ADDENDUM No. 6  
DATED JUNE 7, 2011  
**TYPICAL CROSS SECTIONS**

NO SCALE

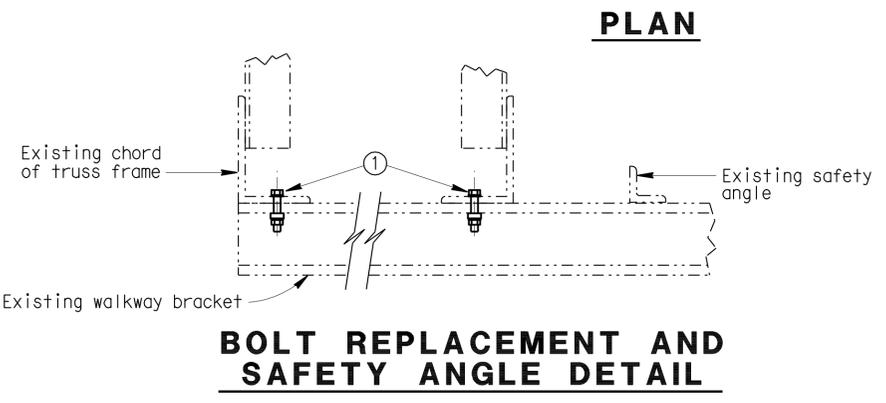
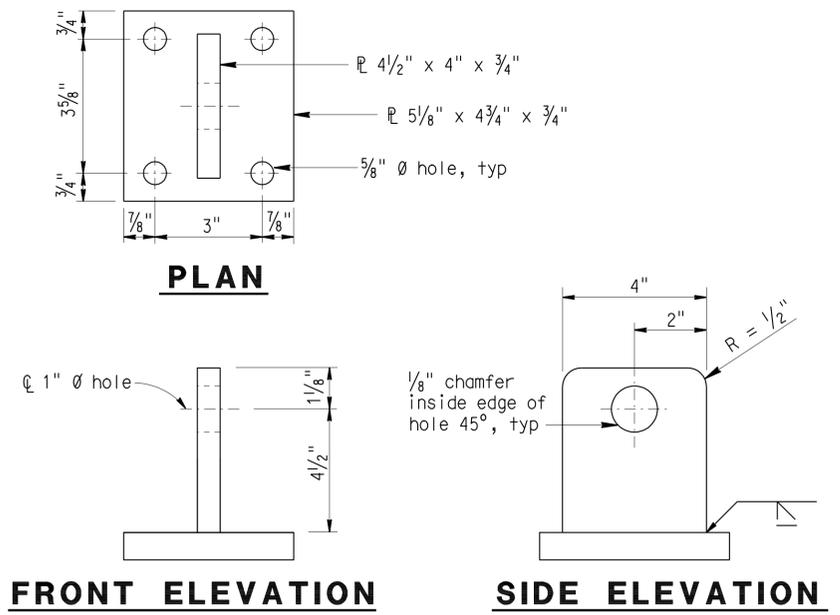
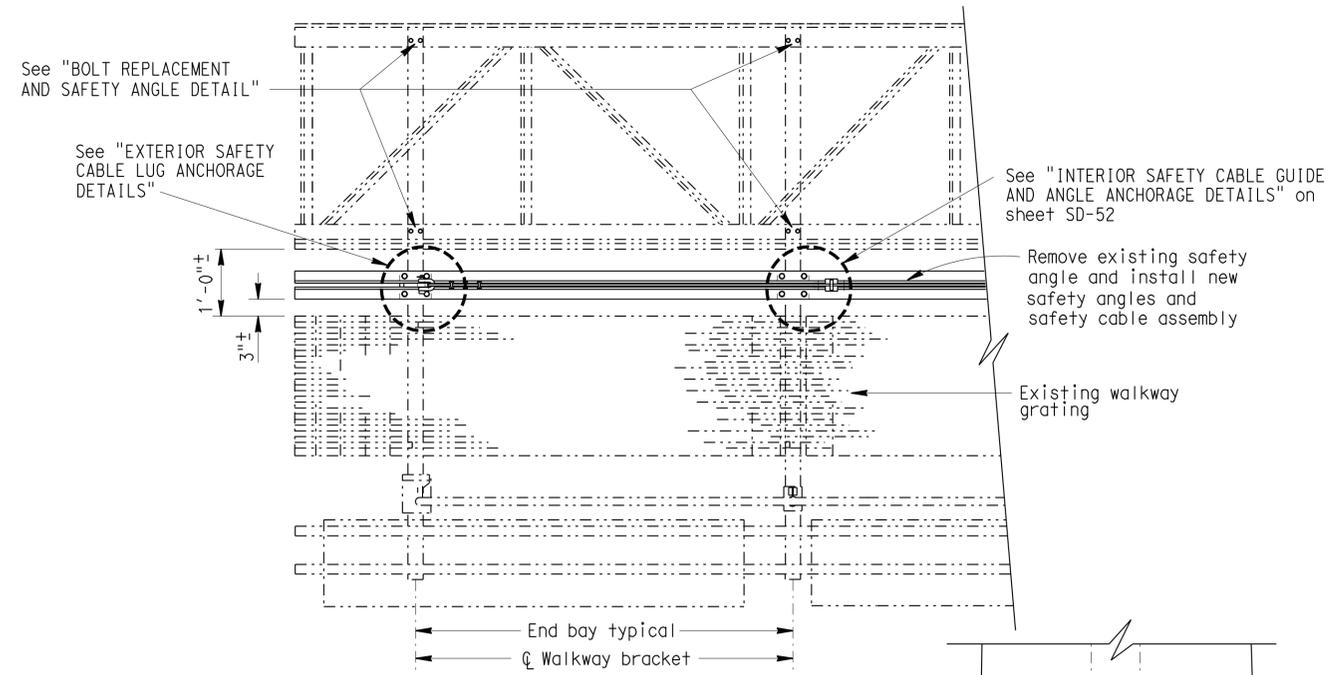
X-1

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Sac/Yuba	80	R10.9/R11.4 M0.0/M10.4	543	1012
			6-10-10		
			REGISTERED CIVIL ENGINEER DATE		
			9-7-10		
			PLANS APPROVAL DATE		
			REGISTERED PROFESSIONAL ENGINEER ANDREW BUI No. C63560 Exp. 9/30/12 CIVIL STATE OF CALIFORNIA		

6

**NOTES:**

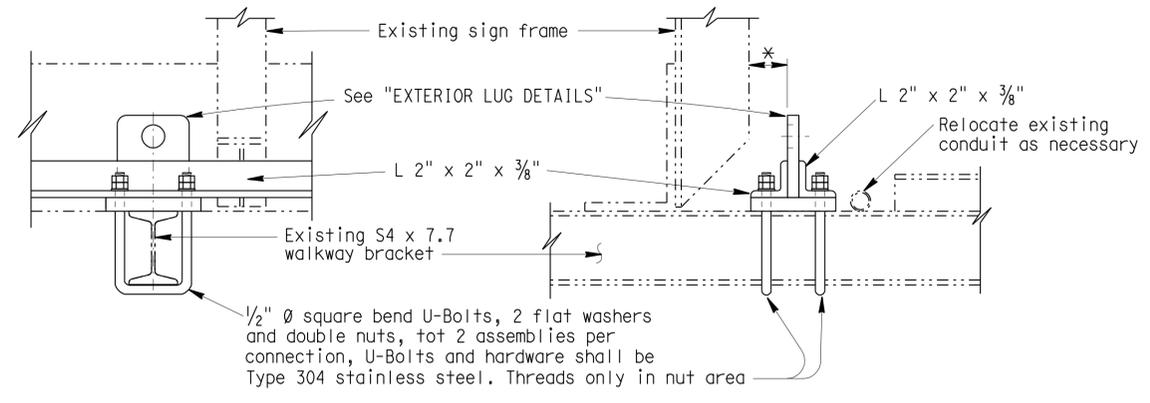
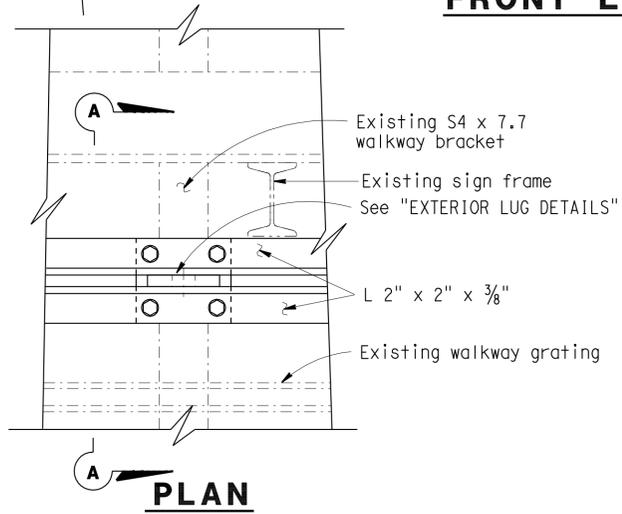
1. Safety cable not shown in all views for clarity.
2. Unless otherwise shown all steel shall be galvanized after fabrication.
3. For sign locations, see PAVEMENT DELINEATION AND SIGN PLANS".



① Remove existing 3/8" Ø bolts in both end bays and replace with 3/8" Ø SAE J429-Grade 8 bolts, ( Each end bay ), ASTM A563 Grade DH or DH3 or ASTM A194 grade 2H nut, mechanical galvanize nut and bolt per ASTM B695. Reuse washer, beveled washer, and lock washer if in good condition. Otherwise replace with galvanized washer, beveled washer and lock washer.

**LEGEND**

- Existing structure
- New construction



**ELEVATION SECTION A-A**  
**EXTERIOR SAFETY CABLE LUG ANCHORAGE DETAILS**

\* Minimum of 2" clear from sign face or sign frame

**6 REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011**

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

BRANCH CHIEF *Jeffrey B. Woody*

DESIGN	BY A GUTIERREZ	CHECKED S VU
DETAILS	BY D W JUSTICE Jr	CHECKED A GUTIERREZ
QUANTITIES	BY A GUTIERREZ	CHECKED S VU

STATE OF CALIFORNIA  
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES  
DESIGN AND TECHNICAL SERVICES  
SPECIAL DESIGNS BRANCH **A**

BRIDGE NO.	N/A
POST MILE	-

**SIGN DETAILS**  
**OVERHEAD SIGN SAFETY CABLE RETROFIT DETAILS NO. 1**

**SDS-31**

(ENGLISH) SPECIAL DESIGNS BRANCH BORDER SHEET (REV. 7-1-09)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS  
0 1 2 3  
CU 03  
EA 379701

DISREGARD PRINTS BEARING EARLIER REVISION DATES  
5-28-10 6-14-10 7-11-11

REVISION DATES					
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SHEET OF

USERNAME => hrlengard DATE PLOTTED => 06-JUN-2011 TIME PLOTTED => 06:50

**ROADWAY AND EARTHWORK QUANTITIES**

6

6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yolo, Sac	80	R10.9/R11.7, MO.0/M10.4	569	1012

REGISTERED CIVIL ENGINEER DATE 6-15-10  
 REGISTERED CIVIL ENGINEER DATE 9-7-10  
 PLANS APPROVAL DATE 9-7-10

A. Y. FONG  
 No. 64343  
 Exp 6-30-11  
 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.

PHASE	STAGE	LOCATION	STATION LIMITS	DIRECTION	JPCP	JPCP (RSC)	HMA (TYPE A)	CLASS 2 AGGREGATE BASE	REMOVE CONCRETE PAVEMENT AND BASE	EMBANKMENT (N)	ROADWAY EXCAVATION	REMOVE LTS	
					CY	CY	TON	CY	CY	CY	CY		
1	1	MEDIAN	"A1" 239+50.0 TO "A1" 482+00.0	EASTBOUND	26,639.6		13,396.4						
		MEDIAN	"A1" 239+50.0 TO "A1" 482+00.0	WESTBOUND	26,536.7		13,344.6						
				"A1" 239+50.0 TO "A1" 482+00.0	EB/WB					10,095.0	25,862.0		
				PHASE 1 STAGE 1 TOTAL		53,176.3	0.0	26,741.0	0.0	0.0	10,095.0	25,862.0	
	1E	-	REGIONAL TRANSIT Temp ACCES Rd	-			232.0				115.0		
				PHASE 1 STAGE 1E TOTAL				232.0				115.0	
	2		MEDIAN	"A1" 550+00.0 TO "A1" 567+80.2	EASTBOUND	1,780.0		895.1					
			MEDIAN	"A1" 570+58.0 TO "A1" 654+50.0	EASTBOUND	8,384.6		4,216.4					
			MEDIAN	"A1" 550+00.0 TO "A1" 567+80.0	WESTBOUND	1,778.8		894.5					
			MEDIAN	"A1" 570+58.0 TO "A1" 654+50.0	WESTBOUND	8,399.3		4,223.8					
				"A1" 550+00.0 TO "A1" 654+50.0	EB/WB					2,431.0	14,691.0		
				PHASE 1 STAGE 2 TOTAL		20,342.7	0.0	10,229.8	0.0	0.0	2,431.0	14,691.0	
	3		WIDENING	"A2" 705+00.0 TO "A2" 738+36.6	EASTBOUND			5,294.3	3,684.8				
			RAMP	"S2" 711+50.0 TO "S2" 713+00.0	EASTBOUND			176.7	114.2				
			RAMP	"S2" 711+50.0 TO "S2" 713+86.0	EASTBOUND					104.9			52.4
			RAMP	"S3" 720+50.0 TO "S3" 725+51.5	EASTBOUND			726.5	469.5				
				"A2" 704+97.0 TO "A2" 738+36.0	EASTBOUND						2,704.0	14,626.0	
				PHASE 1 STAGE 3 TOTAL		0.0	0.0	6,197.5	4,268.5	104.9	2,704.0	14,626.0	52.4
	4		MEDIAN	"A1" 654+50.0 TO "A1" 677+26.0	EASTBOUND	2,279.7		1,146.4					
			MEDIAN	"A1" 679+32.0 TO "A2" 687+50.0	EASTBOUND	814.0		409.3					
MEDIAN			"A1" 654+50.0 TO "A1" 677+26.0	WESTBOUND	2,264.9		1,139.0						
MEDIAN			"A1" 679+32.0 TO "A3" 687+50.0	WESTBOUND	861.3		433.1						
WIDENING			"A2" 702+09.5 TO "A2" 712+00.0	EASTBOUND			948.7	660.3					
WIDENING			"A3" 703+41.0 TO "A3" 713+12.5	WESTBOUND			1,114.1	553.9					
			"A1" 654+50.0 TO "A3" 713+12.0	EB/WB					1,103.0	7,291.0			
			PHASE 1 STAGE 4 TOTAL		6,219.9	0.0	5,190.6	1,214.2	0.0	1,103.0	7,291.0		
5		MEDIAN	"A1" 482+00.0 TO "A1" 494+90.0	EASTBOUND	1,289.6		648.5						
		MEDIAN	"A1" 503+31.0 TO "A1" 550+00.0	EASTBOUND	4,666.2		2,346.5						
		MEDIAN	"A1" 482+00.0 TO "A1" 494+90.0	WESTBOUND	1,289.7		648.6						
		MEDIAN	"A1" 503+31.0 TO "A1" 550+00.0	WESTBOUND	4,671.5		2,349.2						
			"A1" 482+00.0 TO "A1" 550+00.0	EB/WB					1,836.0	7,366.0			
			PHASE 1 STAGE 5 TOTAL		11,917.0	0.0	5,992.8	0.0	0.0	1,836.0	7,366.0		
2	1	#1 LANE	"A1" 479+00.0 TO "A1" 494+89.8	EASTBOUND	812.6		497.4		706.6			353.3	
		#1 LANE	"A1" 503+31.8 TO "A1" 547+85.0	EASTBOUND	2,276.1		1,393.4		1979.2			989.6	
		#2 LANE	"A1" 239+22.5 TO "A1" 251+00.0	EASTBOUND		601.8	368.4		523.3			261.7	
		#2 LANE	"A1" 251+00.0 TO "A1" 275+80.0	EASTBOUND	1,267.6		776.0		1102.2			551.1	
		#2 LANE	"A1" 275+80.0 TO "A1" 280+00.0	EASTBOUND		214.7	131.4		186.7			93.3	
		#2 LANE	"A1" 280+00.0 TO "A1" 291+00.0	EASTBOUND	562.2		344.2		488.9			244.4	
		#2 LANE	"A1" 291+00.0 TO "A1" 309+95.0	EASTBOUND		968.6	592.9		842.2			421.1	
		#2 LANE	"A1" 309+95.0 TO "A1" 329+56.0	EASTBOUND	1,002.3		613.6		871.6			435.8	
		#2 LANE	"A1" 329+56.0 TO "A1" 334+86.0	EASTBOUND		270.9	165.8		235.6			117.8	
		#2 LANE	"A1" 334+86.0 TO "A1" 359+50.0	EASTBOUND	1,259.4		771.0		1095.1			547.6	
			"A1" 359+50.0 TO "A1" 381+00.0	EASTBOUND		1,098.9	672.7	955.6			477.8		
			PHASE 2 STAGE 1 SUBTOTAL (Q-1)		7,180.2	3,154.9	6,326.8		8987		4493.5		
			<b>TOTAL Q-1</b>		<b>98,836.1</b>	<b>3,154.9</b>	<b>60,910.5</b>	<b>5,482.7</b>	<b>9091.9</b>	<b>18,169.0</b>	<b>69,951.0</b>	<b>4545.9</b>	

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

6

REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011

SUMMARY OF QUANTITIES

Q-1

**ROADWAY AND EARTHWORK QUANTITIES (CONTINUED)**

6

6

3

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yolo, Sac	80	R10.9/R11.7, MO.0/M10.4	570	1012

REGISTERED CIVIL ENGINEER DATE 6-15-10  
 9-7-10 PLANS APPROVAL DATE  
 A. Y. FONG No. 64343 Exp. 6-30-11 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.

PHASE	STAGE	LOCATION	STATION LIMITS	DIRECTION	JPCP	JPCP (RSC)	HMA (TYPE A)	CLASS 2 AGGREGATE BASE	REMOVE CONCRETE PAVEMENT AND BASE	EMBANKMENT (N)	ROADWAY EXCAVATION	REMOVE LTS
					CY	CY	TON	CY	CY	CY	CY	
2	1	#2 LANE	"A1" 381+00.0 TO "A1" 384+50.0	EASTBOUND		178.9	109.5		155.6			77.8
		#2 LANE	"A1" 384+50.0 TO "A1" 400+15.0	EASTBOUND		799.9	489.7		695.6			347.8
		#2 LANE	"A1" 400+15.0 TO "A1" 411+20.0	EASTBOUND	564.8		345.8		491.1			245.6
		#2 LANE	"A1" 411+20.0 TO "A1" 437+52.0	EASTBOUND		1,345.2	823.6		1169.8			584.9
		#2 LANE	"A1" 437+52.0 TO "A1" 473+35.0	EASTBOUND	1,831.3		1,121.1		1592.4			796.2
		#2 LANE	"A1" 473+35.0 TO "A1" 489+00.0	EASTBOUND	799.9		489.7		695.6			347.8
		#2 LANE	"A1" 489+00.0 TO "A1" 494+89.8	EASTBOUND	301.5		184.5		262.1			131.1
		#2 LANE	"A1" 503+31.8 TO "A1" 547+85.0	EASTBOUND	2,276.1		1,393.4		1979.2			989.6
		#2 LANE	"A1" 547+85.0 TO "A1" 567+73.1	EASTBOUND	1,016.1		622.1		883.6			441.8
		#2 LANE	"A1" 570+48.7 TO "A1" 677+26.4	EASTBOUND	5,457.5		3,341.1		4745.6			2372.8
		#2 LANE	"A1" 679+32.1 TO "A1" 688+54.5	EASTBOUND		471.4	288.6		410			205
		#3 LANE	"A1" 239+22.5 TO "A1" 251+00.0	EASTBOUND		702.1	429.8		523.3			261.7
		#3 LANE	"A1" 251+00.0 TO "A1" 275+80.0	EASTBOUND	1,478.8		905.3		1102.2			551.1
		#3 LANE	"A1" 275+80.0 TO "A1" 280+00.0	EASTBOUND		250.4	153.3		186.7			93.3
		#3 LANE	"A1" 280+00.0 TO "A1" 291+00.0	EASTBOUND	655.9		401.6		488.9			244.4
		#3 LANE	"A1" 291+00.0 TO "A1" 309+95.0	EASTBOUND		968.6	592.9		842.2			421.1
		#3 LANE	"A1" 309+95.0 TO "A1" 329+56.0	EASTBOUND	1,002.3		613.6		871.6			435.8
		#3 LANE	"A1" 329+56.0 TO "A1" 334+86.0	EASTBOUND		270.9	165.8		235.6			117.8
		#3 LANE	"A1" 334+86.0 TO "A1" 359+50.0	EASTBOUND	1,469.3		899.5		1095.1			547.6
		#3 LANE	"A1" 359+50.0 TO "A1" 381+00.0	EASTBOUND		1,282.0	784.9		955.6			477.8
		#3,4 LANE	"A1" 381+00.0 TO "A1" 384+50.0	EASTBOUND	55.9	387.6	271.5		311.1			155.6
		#3,4 LANE	"A1" 384+50.0 TO "A1" 400+00.0	EASTBOUND		1,716.5	1,061.0		1391.1			695.6
		#3 LANE	"A1" 400+00.0 TO "A1" 411+20.0	EASTBOUND	667.9		403.4		491.1			245.6
		#3 LANE	"A1" 411+20.0 TO "A1" 437+52.0	EASTBOUND		1,345.2	823.6		1169.8			548.9
		#3 LANE	"A1" 437+52.0 TO "A1" 473+35.0	EASTBOUND	1,831.3		1,121.1		1592.4			796.2
		#3 LANE	"A1" 473+35.0 TO "A1" 489+00.0	EASTBOUND	933.2		571.3		695.6			347.8
		#3 LANE	"A1" 489+00.0 TO "A1" 494+89.8	EASTBOUND	351.7		215.3		262.1			131.1
		#3 LANE	"A1" 503+31.8 TO "A1" 547+85.0	EASTBOUND	2,655.4		1,625.6		1979.2			989.6
		#3 LANE	"A1" 547+85.0 TO "A1" 567+73.1	EASTBOUND	1,185.5		725.8		883.6			441.8
		#3 LANE	"A1" 570+48.7 TO "A1" 677+26.4	EASTBOUND	6,367.1		3,897.9		4745.6			2372.8
		#3 LANE	"A1" 679+32.1 TO "A1" 688+54.5	EASTBOUND		550.0	336.7		410			205
		AUX LANE	"A1" 296+55.0 TO "A1" 309+95.0	EASTBOUND		799.0	489.2					
		AUX LANE	"A1" 309+95.0 TO "A1" 329+56.0	EASTBOUND	1,169.3		715.9					
		AUX LANE	"A1" 329+56.0 TO "A1" 333+22.5	EASTBOUND		218.5	133.7					
		Shld	"A1" 239+22.5 TO "A1" 276+16.5	EASTBOUND			1,645.7	818.2				
		Shld	"A1" 296+62.0 TO "A1" 308+79.6	EASTBOUND			1,247.5	620.2				
		Shld	"A1" 308+79.6 TO "A1" 332+22.5	EASTBOUND			1,092.0	542.9				
		Shld	"A1" 337+22.5 TO "A1" 359+50.0	EASTBOUND			995.7	495.0				
		Shld	"A1" 381+00.0 TO "A1" 393+30.0	EASTBOUND			549.8	273.3				
		Shld	"A1" 402+17.0 TO "A1" 409+42.0	EASTBOUND			324.1	161.1				
		Shld	"A1" 473+35.0 TO "A1" 479+45.0	EASTBOUND			272.7	135.6				
		Shld	"A1" 515+50.0 TO "A1" 528+12.0	EASTBOUND			564.1	280.4				
		Shld	"A1" 534+05.0 TO "A1" 542+40.0	EASTBOUND			373.2	185.6				
		RAMP	"A1" 296+62.0 TO "A1" 308+79.6	EASTBOUND			1,247.5	620.2				
			"A1" 239+22.5 TO "A1" 542+40.0	EASTBOUND						3,642.0	9,057.0	
PHASE 2 STAGE 1 SUBTOTAL (Q-2)					32,070.8	11,286.2	34,860.1	4,132.5	33313.4	3,642.0	9,057.0	16621
PHASE 2 STAGE 1 TOTAL					39,251.0	14,441.1	41,186.9	4,132.5	42300.4	3,642.0	9,057.0	21114.5
TOTAL Q-2					32,070.8	11,286.2	34,860.1	4,132.5	33313.4	3,642.0	9,057.0	16621

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

3

REVISED PER ADDENDUM No. 3 DATED MAY 19, 2011

6

REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011

SUMMARY OF QUANTITIES

Q-2

**ROADWAY AND EARTHWORK QUANTITIES (CONTINUED)** 6

6

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yolo, Sac	80	R10.9/R11.7, MO.0/M10.4	571	1012

6-15-10  
 REGISTERED CIVIL ENGINEER DATE

9-7-10  
 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER  
 A. Y. FONG  
 No. 64343  
 Exp 6-30-11  
 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.

PHASE	STAGE	LOCATION	STATION LIMITS	DIRECTION	JPCP	JPCP (RSC)	HMA (TYPE A)	CLASS 2 AGGREGATE BASE	REMOVE CONCRETE PAVEMENT AND BASE	EMBANKMENT (N)	ROADWAY EXCAVATION	REMOVE LTS
					CY	CY	TON	CY	CY	CY	CY	
3	1	#1 LANE	"A1" 483+12.0 TO "A1" 494+89.8	WESTBOUND	602.0		368.5		523.5			261.7
		#1 LANE	"A1" 503+31.8 TO "A1" 550+12.0	WESTBOUND	2,392.1		1,464.4		2,080.0			1,040.0
		#2 LANE	"A1" 239+22.5 TO "A1" 251+00.0	WESTBOUND		601.8	368.4		523.3			261.7
		#2 LANE	"A1" 251+00.0 TO "A1" 271+40.0	WESTBOUND	1,042.7		638.3		906.7			453.3
		#2 LANE	"A1" 271+40.0 TO "A1" 291+00.0	WESTBOUND		1,001.8	613.3		871.1			435.6
		#2 LANE	"A1" 291+00.0 TO "A1" 303+25.0	WESTBOUND	626.1		383.3		544.4			272.2
		#2 LANE	"A1" 303+25.0 TO "A1" 308+00.0	WESTBOUND		242.8	148.6		211.1			105.6
		#2 LANE	"A1" 308+00.0 TO "A1" 334+00.0	WESTBOUND	1,328.9		813.5		1,155.6			577.8
		#2 LANE	"A1" 334+00.0 TO "A1" 337+90.0	WESTBOUND		199.3	122.0		173.3			86.7
		#2 LANE	"A1" 337+90.0 TO "A1" 356+50.0	WESTBOUND		950.7	582.0		826.7			413.3
		#2 LANE	"A1" 356+50.0 TO "A1" 371+40.0	WESTBOUND	761.6		466.2		662.2			331.1
		#2 LANE	"A1" 371+40.0 TO "A1" 374+50.0	WESTBOUND	158.4		97.0		137.8			68.9
		#2 LANE	"A1" 374+50.0 TO "A1" 378+00.0	WESTBOUND		178.9	109.5		155.6			77.8
		#2 LANE	"A1" 378+00.0 TO "A1" 381+50.0	WESTBOUND		178.9	109.5		155.6			155.6
		#2 LANE	"A1" 381+50.0 TO "A1" 388+50.0	WESTBOUND	357.8		219.0		311.1			222.2
		#2 LANE	"A1" 388+50.0 TO "A1" 398+50.0	WESTBOUND		511.1	312.9		444.4			105.6
		#2 LANE	"A1" 398+50.0 TO "A1" 403+25.0	WESTBOUND	242.8		148.6		211.1			216.7
		#2 LANE	"A1" 403+25.0 TO "A1" 413+00.0	WESTBOUND		498.3	305.1		433.3			43.3
		#2 LANE	"A1" 413+00.0 TO "A1" 414+95.0	WESTBOUND	99.7		61.0		86.7			230.0
		#2 LANE	"A1" 414+95.0 TO "A1" 425+30.0	WESTBOUND	529.0		323.9		460.0			37.8
		#2 LANE	"A1" 425+30.0 TO "A1" 427+00.0	WESTBOUND	86.9		53.2		75.6			111.1
		#2 LANE	"A1" 427+00.0 TO "A1" 432+00.0	WESTBOUND		255.6	156.5		222.2			972.2
		#2 LANE	"A1" 432+00.0 TO "A1" 475+75.0	WESTBOUND	2,236.1		1,368.9		1,944.4			131.6
		#2 LANE	"A1" 475+75.0 TO "A1" 481+67.0	WESTBOUND	302.6		185.2		263.1			294.0
		#2 LANE	"A1" 481+67.0 TO "A1" 494+89.8	WESTBOUND	676.1		413.9		567.9			1,040.0
		#2 LANE	"A1" 503+31.8 TO "A1" 550+12.0	WESTBOUND	2,392.1		1,464.4		2,080.1			394.2
		#2 LANE	"A1" 550+12.0 TO "A1" 567+85.7	WESTBOUND	906.6		555.0		788.3			2,368.7
		#2 LANE	"A1" 570+67.3 TO "A1" 677+26.4	WESTBOUND	5,448.0		3,335.2		4,737.4			223.9
		#2 LANE	"A1" 679+32.1 TO "A1" 689+39.8	WESTBOUND		515.0	315.3		447.9			261.7
		#3 LANE	"A1" 239+22.5 TO "A1" 251+00.0	WESTBOUND		702.1	429.8		523.3			453.3
		#3 LANE	"A1" 251+00.0 TO "A1" 271+40.0	WESTBOUND	1,216.4		744.7		906.7			453.3
		#3 LANE	"A1" 271+40.0 TO "A1" 291+00.0	WESTBOUND		1,168.7	715.5		906.7			272.2
		#3 LANE	"A1" 291+00.0 TO "A1" 303+25.0	WESTBOUND	730.5		447.2		544.4			105.6
		#3 LANE	"A1" 303+25.0 TO "A1" 308+00.0	WESTBOUND		242.8	148.6		211.1			577.8
		#3 LANE	"A1" 308+00.0 TO "A1" 334+00.0	WESTBOUND	1,328.9		813.5		1,155.6			86.7
		#3 LANE	"A1" 334+00.0 TO "A1" 337+90.0	WESTBOUND		199.3	122.0		173.3			413.3
		#3 LANE	"A1" 337+90.0 TO "A1" 356+50.0	WESTBOUND		1,109.1	679.0		826.7			331.1
		#3 LANE	"A1" 356+50.0 TO "A1" 371+40.0	WESTBOUND	888.5		543.9		662.2			68.9
		#3 LANE	"A1" 371+40.0 TO "A1" 374+50.0	WESTBOUND	158.4		97.0		137.8			77.8
		#3 LANE	"A1" 374+50.0 TO "A1" 378+00.0	WESTBOUND	6.4	178.9	113.4		155.6			155.6
#3,4 LANE	"A1" 378+00.0 TO "A1" 381+50.0	WESTBOUND		387.6	237.3		311.1			311.1		
#3,4 LANE	"A1" 381+50.0 TO "A1" 388+50.0	WESTBOUND	775.2		474.6		622.2					
PHASE 3 STAGE 1 SUBTOTAL (Q-3)					25,293.8	9,122.7	21,069.1	0.0	29,137.1	0.0	0.0	14,578.8
TOTAL Q-3					25,293.8	9,122.7	21,069.1	0.0	29,137.1	0.0	0.0	14,578.8

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

6 **REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011** **SUMMARY OF QUANTITIES**

**Q-3**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yolo, Sac	80	R10.9/R11.7, M0.0/M10.4	572	1012

<i>Amy Long</i> REGISTERED CIVIL ENGINEER	6-15-10 DATE
9-7-10 PLANS APPROVAL DATE	

REGISTERED PROFESSIONAL ENGINEER A. Y. FONG No. 64343 Exp 6-30-11 CIVIL
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THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

**ROADWAY AND EARTHWORK QUANTITIES (CONTINUED)**

PHASE	STAGE	LOCATION	STATION LIMITS	DIRECTION	JPCP	JPCP (RSC)	HMA (TYPE A)	CLASS 2 AGGREGATE BASE	REMOVE CONCRETE PAVEMENT AND BASE	EMBANKMENT (N)	ROADWAY EXCAVATION	REMOVE LTS
					CY	CY	TON	CY	CY	CY	CY	
3	1	#3 LANE	"A1" 388+50.0 TO "A1" 398+50.0	WESTBOUND		1,107.4	678.0					
		#3 LANE	"A1" 398+50.0 TO "A1" 403+25.0	WESTBOUND	242.8		148.6					
		#3 LANE	"A1" 403+25.0 TO "A1" 413+00.0	WESTBOUND		498.3	305.1		888.6			444.4
		#3 LANE	"A1" 413+00.0 TO "A1" 414+95.0	WESTBOUND	99.7		61.0		211.1			105.6
		#3 LANE	"A1" 414+95.0 TO "A1" 425+30.0	WESTBOUND	617.2		377.8		433.3			216.7
		#3 LANE	"A1" 425+30.0 TO "A1" 427+00.0	WESTBOUND	86.9		53.2		86.7			43.3
		#3 LANE	"A1" 427+00.0 TO "A1" 432+00.0	WESTBOUND		255.6	156.5		460.0			230.0
		#3 LANE	"A1" 432+00.0 TO "A1" 475+75.0	WESTBOUND	2,220.8		1,359.6		75.6			37.8
		#3 LANE	"A1" 475+75.0 TO "A1" 481+67.0	WESTBOUND	370.9		227.1		222.2			111.1
		#3 LANE	"A1" 481+67.0 TO "A1" 494+89.8	WESTBOUND	788.8		482.9		1,944.4			972.2
		#3 LANE	"A1" 503+31.8 TO "A1" 550+12.0	WESTBOUND	2,790.8		1,708.5		263.1			131.6
		#3 LANE	"A1" 550+12.0 TO "A1" 567+85.7	WESTBOUND	1,057.7		647.5		587.9			294.0
		#3 LANE	"A1" 570+67.3 TO "A1" 677+26.4	WESTBOUND	6,356.0		3,891.1		2,080.1			1,040.0
		#3 LANE	"A1" 679+32.1 TO "A1" 689+39.8	WESTBOUND		600.9	367.9		788.3			394.2
		AUX LANE	"A1" 304+25.0 TO "A1" 308+00.0	WESTBOUND		223.6	136.9		7,106.4			2,368.7
		AUX LANE	"A1" 308+00.0 TO "A1" 334+00.0	WESTBOUND	1550.4		949.1		447.9			223.9
		AUX LANE	"A1" 334+00.0 TO "A1" 337+90.0	WESTBOUND		232.6	142.4					
		Shld	"A1" 239+22.5 TO "A1" 271+25.5	WESTBOUND			1,426.3	709.1				
		Shld	"A1" 304+25.0 TO "A1" 337+90.0	WESTBOUND			1,504.2	747.8				
		Shld	"A1" 359+00.0 TO "A1" 371+40.0	WESTBOUND			554.3	275.6				
Shld	"A1" 414+95.0 TO "A1" 425+30.0	WESTBOUND			462.6	230.0						
Shld	"A1" 486+47.0 TO "A1" 492+93.0	WESTBOUND			288.8	143.6						
Shld	"A1" 515+50.0 TO "A1" 522+84.0	WESTBOUND			328.1	163.1						
Shld	"A1" 536+32.0 TO "A1" 542+40.0	WESTBOUND			271.8	135.1						
Shld	"A1" 239+22.5 TO "A1" 542+40.0	WESTBOUND							3,642.0	9,057.0		
PHASE 3 STAGE 1 SUBTOTAL (Q-4)					16,182.0	2,918.4	16,529.3	2,404.3	15,595.9	3,642.0	9,057.0	6,613.5
PHASE 3 STAGE 1 TOTAL					41,475.8	12,041.1	37,598.4	2,404.3	44,732.1	3,642.0	9,057.0	21,192.3
SUBTOTAL SHEET Q-1					98,836.1	3,154.9	60,910.5	5,482.7	9,091.9	18,169.0	69,951.0	4,545.9
SUBTOTAL SHEET Q-2					32,070.8	11,286.2	34,860.1	4,132.5	33,313.4	3,642.0	9,057.0	1,662.1
SUBTOTAL SHEET Q-3					25,293.8	9,122.7	21,069.1	0.0	29,137.1	0.0	0.0	14,578.8
<b>TOTAL</b>					<b>172,382.7</b>	<b>26,482.2</b>	<b>133,369.0</b>	<b>12,019.5</b>	<b>87,138.3</b>	<b>25,453.0</b>	<b>88,065.0</b>	<b>42,359.2</b>

**HOT MIX ASPHALT (HMA) SUMMARY**

DESCRIPTION	TON
HMA DIKE (FROM Q-8)	348.8
OVERSIDE DRAIN (FROM Q-8)	10.0
HMA (TYPE A) (FROM Q-4)	133,369.0
<b>TOTAL</b>	<b>133,727.8</b>

(N) NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY.

**6** REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011  
**3** REVISED PER ADDENDUM No. 3 DATED MAY 19, 2011

**SUMMARY OF QUANTITIES**

**Q-4**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
 NORTH REGION  
 OFFICE OF DESIGN SOUTH  
 DESIGN BRANCH S7  
 FUNCTIONAL SUPERVISOR  
 CYRUS HUI  
 CALCULATED/DESIGNED BY  
 A. RANDHAWA  
 A. FONG  
 CHECKED BY  
 REVISOR  
 DATE REVISOR

**TACK COAT** 

LOCATION	STATION LIMITS	DIRECTION	TACK COAT
			TON
<del>SHLD</del>	<del>"A1" 239+22.5 TO "A1" 542+40.0</del>	<del>WB/EB</del>	<del>9.9</del>
<del>#1 LANE</del>	<del>"A1" 483+12.0 TO "A1" 550+12.0</del>	<del>WB</del>	<del>1.6</del>
<del>#1 LANE</del>	<del>"A1" 479+00.0 TO "A1" 547+85.0</del>	<del>EB</del>	<del>13.7</del>
<del>#2 LANE</del>	<del>"A1" 239+22.5 TO "A3" 689+39.8</del>	<del>WB</del>	<del>12.1</del>
<del>#2 LANE</del>	<del>"A1" 239+22.5 TO "A2" 688+54.5</del>	<del>EB</del>	<del>12.1</del>
<del>#3 LANE</del>	<del>"A1" 239+22.5 TO "A3" 689+39.8</del>	<del>WB</del>	<del>14.2</del>
<del>#3 LANE</del>	<del>"A1" 239+22.5 TO "A2" 688+54.5</del>	<del>EB</del>	<del>14.2</del>
<del>AUX1</del>	<del>"A1" 304+25.0 TO "A1" 337+90.0</del>	<del>WB</del>	<del>1.1</del>
<del>AUX1</del>	<del>"A1" 296+55.0 TO "A1" 333+22.5</del>	<del>EB</del>	<del>1.2</del>
<del>MEDIAN</del>	<del>"A1" 239+22.5 TO "A3" 689+69.8</del>	<del>WB</del>	<del>28.6</del>
<del>MEDIAN</del>	<del>"A1" 239+22.5 TO "A2" 689+24.3</del>	<del>EB</del>	<del>28.7</del>
<del>OVERLAYS</del>	<del>"A1" 239+22.5 TO "A2" 738+41.2</del>	<del>WB/EB</del>	<del>39.2</del>
<del>"A2" WIDENING</del>	<del>"A2" 702+10.0 TO "A2" 738+41.2</del>	<del>EB</del>	<del>6.5</del>
<del>"A2" WIDENING</del>	<del>"A3" 703+40.0 TO "A3" 728+87.5</del>	<del>WB</del>	<del>0.9</del>
<del>TOTAL</del>			<del>172.0</del>

**MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)**

STATION LIMITS	CURB TYPE		GUTTER	SLOPE
	A1-6	A3-6		
	CY	CY		
"A2" 688+43.4 TO "A2" 688+56.8	0.4			
"A2" 720+36.4 TO "A2" 725+00.0			15	
"A3" 701+43.3 TO "A3" 702+12.5		0.7		
"S3" 722+00.0 TO "S3" 725+46.7				91.3
<b>TOTAL</b>			107.4	

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yolo, Sac	80	R10.9/R11.7, MO.0/M10.4	576	1012

REGISTERED CIVIL ENGINEER *Amy Long* DATE 6-15-10

9-7-10 PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER **A. Y. FONG** No. 64343 Exp 6-30-11 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.

**PLACE HMA (Misc AREA)**

DESCRIPTION	SQYD	TON
HMA OVERSIDE DRAINS	59.3	10.0**

\*\* SEE Q-4 FOR TOTAL

**PLACE HMA DIKE**

STATION LIMITS	TYPE A	TYPE C	TYPE E	TYPE F	HMA
					TON
"A1" 239+22.5 TO "A1" 250+47.2 Lt				1,124.7	14.9
"A1" 239+22.5 TO "A1" 249+85.0 Rt				1,062.5	14.1
"A1" 249+85.0 TO "A1" 254+00.0 Rt			415.0		10.9
"A1" 250+47.5 TO "A1" 251+22.5 Lt		75.0			0.6
"A1" 251+22.5 TO "A1" 254+00.0 Lt			277.5		7.3
"A1" 298+49.3 TO "A1" 303+24.7 Rt			475.4		12.4
"A1" 304+25.0 TO "A1" 304+88.5 Lt				63.5	0.8
"A1" 304+88.5 TO "A1" 305+63.5 Lt		75.0			0.6
"A1" 305+37.7 TO "A1" 307+66.5 Rt			228.8		6.0
"A1" 305+63.5 TO "A1" 310+00.0 Lt			436.5		11.4
"A1" 307+66.5 TO "A1" 308+41.5 Rt				50.0	0.6
"A1" 308+41.5 TO "A1" 308+91.5 Rt		75.0			0.7
"A1" 308+91.5 TO "A1" 310+00.0 Rt			108.5		2.8
"A1" 310+13.0 TO "A1" 315+00.0 Lt			487.0		12.7
"A1" 310+13.0 TO "A1" 315+00.0 Rt			487.0		12.7
"A1" 315+13.0 TO "A1" 320+00.0 Lt			487.0		12.7
"A1" 315+13.0 TO "A1" 320+24.7 Rt			511.7		13.4
"A1" 320+13.0 TO "A1" 330+00.0 Lt			987.0		25.8
"A1" 320+37.1 TO "A1" 328+90.0 Rt			852.9		22.3
"A1" 329+03.0 TO "A1" 332+33.5 Rt			330.5		8.6
"A1" 330+13.0 TO "A1" 335+88.5 Lt			575.5		15.0
"A1" 332+33.5 TO "A1" 333+08.5 Rt		75.0			0.6
"A1" 333+08.5 TO "A1" 333+22.5 Rt				14.0	0.2
"A1" 335+88.5 TO "A1" 336+38.5 Lt				50.0	0.7
"A1" 336+38.5 TO "A1" 337+13.5 Lt		75.0			0.6
"A1" 337+13.5 TO "A1" 337+90.0 Lt			76.5		2.0
"A1" 515+50.0 TO "A1" 516+50.5 Lt				100.5	1.3
"A1" 515+50.0 TO "A1" 517+00.0 Rt				150.0	2.0
"A1" 516+50.5 TO "A1" 517+13.0 Lt		62.5			0.5
"A1" 517+13.0 TO "A1" 521+88.0 Lt			475.0		12.4
"A1" 517+00.0 TO "A1" 528+12.0 Rt			1,112.0		29.1
"A1" 521+88.0 TO "A1" 522+84.0 Lt		96.0			0.7
"A1" 534+05.0 TO "A1" 542+30.0 Rt			825.0		21.6
"A1" 536+32.0 TO "A1" 542+20.0 Lt			588.0		15.4
"S2" 709+50.0 TO "S2" 712+00.0 Rt			250.0		6.5
"S3" 720+50.0 TO "A2" 738+41.2 Rt			1,791.2		46.8
REGIONAL TRANSIT	80.0				2.0
<b>TOTAL</b>	80.0	533.5	11,778.0	2,615.2	348.8*

\* SEE Q-4 FOR TOTAL

**RELOCATE GATE**

STATION LIMITS	RELOCATE GATE
"A3" 695+50.0	EA 1
<b>TOTAL</b>	1

**TACK COAT** 

LOCATION	TACK COAT
OVERLAYS	TON 55.9
CONSTRUCTION JOINTS	6.6
<b>TOTAL</b>	62.5

**EROSION CONTROL (HYDROSEED)**

LOCATION	AREA
AREA 1	0.03
AREA 2	0.08
AREA 3	2.30
AREA 4	2.12
AREA 5	0.13
AREA 6	0.01
AREA 7	0.16
AREA 8	0.40
AREA 9	0.05
AREA 10	0.12
AREA 11	0.36
AREA 12	0.95
<b>TOTAL</b>	6.71

**LIQUID ASPHALT (PRIME COAT)** 

STATION LIMITS	DIRECTION	LIQUID ASPHALT (PRIME COAT)
"A1" 239+22.5 TO "A1" 240+22.5	WB	TON 0.1
"A1" 240+22.5 TO "A1" 271+25.5	WB	2.0
"A1" 304+25.0 TO "A1" 337+90.0	WB	3.1
"A1" 359+00.0 TO "A1" 371+40.0	WB	1.1
"A1" 414+95.0 TO "A1" 425+30.0	WB	0.9
"A1" 486+47.0 TO "A1" 492+93.0	WB	0.6
"A1" 515+50.0 TO "A1" 522+84.0	WB	0.7
"A1" 536+32.0 TO "A1" 542+40.0	WB	0.6
"A1" 239+22.5 TO "A1" 240+22.5	EB	0.1
"A1" 240+22.5 TO "A1" 276+16.5	EB	3.3
"A1" 296+55.0 TO "A1" 303+76.2	EB	0.6
"A1" 298+49.3 TO "A1" 303+76.2	EB	1.2
"A1" 303+76.2 TO "A1" 308+80.0	EB	0.8
"A1" 308+79.6 TO "A1" 332+22.5	EB	2.2
"A1" 337+22.5 TO "A1" 359+50.0	EB	2.0
"A1" 381+00.0 TO "A1" 393+30.0	EB	1.1
"A1" 402+17.0 TO "A1" 409+42.0	EB	0.7
"A1" 473+35.0 TO "A1" 479+45.0	EB	0.6
"A1" 515+50.0 TO "A1" 528+12.0	EB	1.2
"A1" 534+05.0 TO "A1" 542+40.0	EB	0.8
"A2" 702+09.5 TO "A2" 712+00.0	EB	1.9
"A2" 704+00.0 TO "A2" 738+36.6	EB	11.1
"S2" 711+50.0 TO "S2" 713+00.0	EB	0.5
"S2" 711+50.0 TO "S2" 713+00.0	EB	0.3
"S2" 711+50.0 TO "S2" 713+86.0	EB	0.3
"S3" 720+50.0 TO "S3" 725+50.0	EB	2.2
"S3" 703+41.0 TO "S3" 713+12.5	EB	2.3
<b>TOTAL</b>		43.1

**TEMPORARY WATER POLLUTION CONTROL**

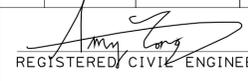
ITEM DESCRIPTION	QTY	UNIT
TEMPORARY FIBER ROLL	24,834	LF
TEMPORARY SILT FENCE	43,314	LF
TEMPORARY GRAVEL BAG BERM	3,065	LF
TEMPORARY CONSTRUCTION ENTRANCE	56	EA
TEMPORARY COVER	24,200	SQYD
TEMPORARY CHECK DAM	277	LF
TEMPORARY DRAINAGE INLET PROTECTION	178	EA
TEMPORARY EROSION CONTROL BLANKET	161,100	SQYD
TEMPORARY SOIL BINDER	20,600	SQYD

**REVISOR**  **REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011**

**SUMMARY OF QUANTITIES**

**Q-8**

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Yo  Sac	80	R10.9/R11.7, MO.0/M10.4	578	1012

  
 REGISTERED CIVIL ENGINEER DATE 6-15-10  
 9-7-10  
 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.

REGISTERED PROFESSIONAL ENGINEER  
 No. 64343  
 Exp 6-30-11  
 CIVIL  
 STATE OF CALIFORNIA

### EXTEND IRRIGATION CROSSOVERS

LINE	STATION	SIDE	EXTEND CONDUIT	(N) CB	(N) OL	(N)
			SIZE 6"			SPRINKLER CONTROL CROSSOVER
			LENGTH (LF)			SIZE (INCH)
"A1"	360+00	MEDIAN	52	X	X	
"A1"	491+00	MEDIAN	46	X	X	
"A1"	511+00	MEDIAN	46	X	X	2
"A1"	534+00	MEDIAN	46	X	X	
"A1"	540+00	MEDIAN	46	X	X	
"A1"	546+00	MEDIAN	46	X	X	
TOTAL			282			

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY  
 X - DENOTES REQUIREMENT  
 CB - COUPLING BAND  
 OL - OVERLAP

### 4" CONDUIT

LOCATION	LF
REGIONAL TRANSIT GATE FOUNDATION TO CONTROLLER CABINET	40
TOTAL	40

### REMOVE PAVEMENT

LOCATION	CY
REGIONAL TRANSIT TEMPORARY ACCESS ROAD	114
TOTAL	114

### 6 SUBGRADE ENHANCEMENT FABRIC

LOCATION	LF
VARIES	347,725
TOTAL TOTAL	347,725


**REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011**

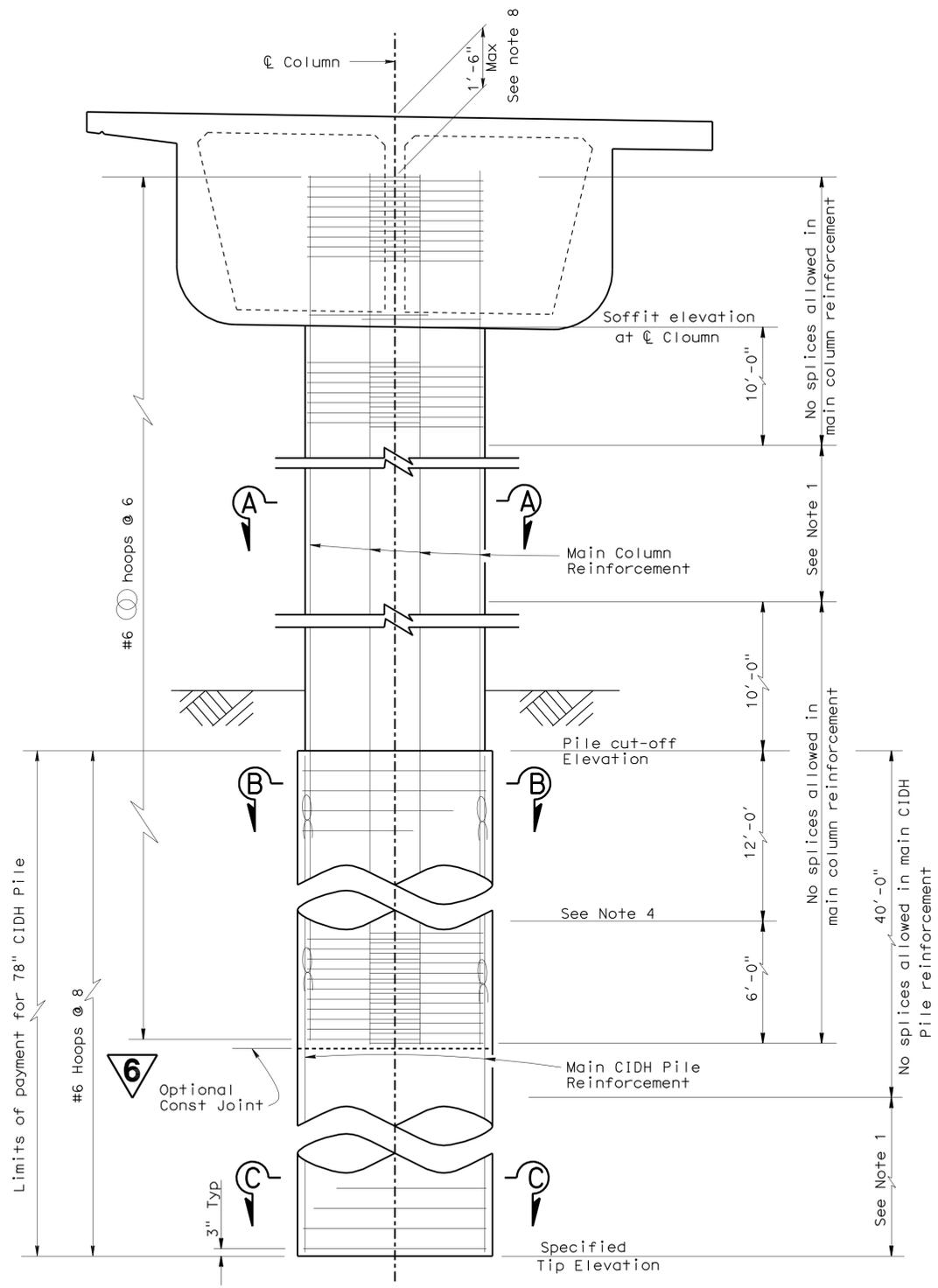
## SUMMARY OF QUANTITIES

**Q-10**

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION  
  
 NORTH REGION  
 OFFICE OF DESIGN SOUTH  
 DESIGN BRANCH S7  
 FUNCTIONAL SUPERVISOR  
 CYRUS HUI  
 CALCULATED/DESIGNED BY  
 CHECKED BY  
 A. RANDHAWA  
 A. FONG  
 REVISED BY  
 DATE REVISED

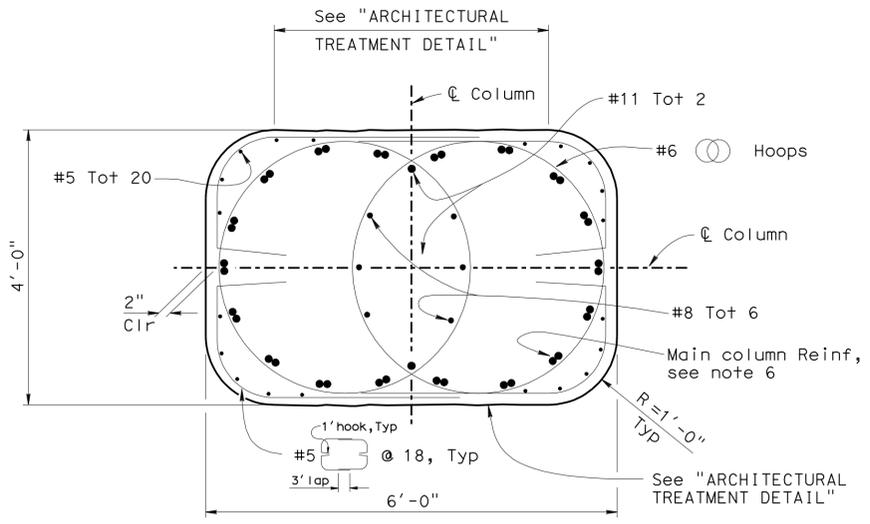
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yol,Sac	80	R10.9/R11.7, MO.0/M10.4	828	1012

Eric Watson 3/26/10  
 REGISTERED CIVIL ENGINEER DATE  
 9-7-10  
 PLANS APPROVAL DATE  
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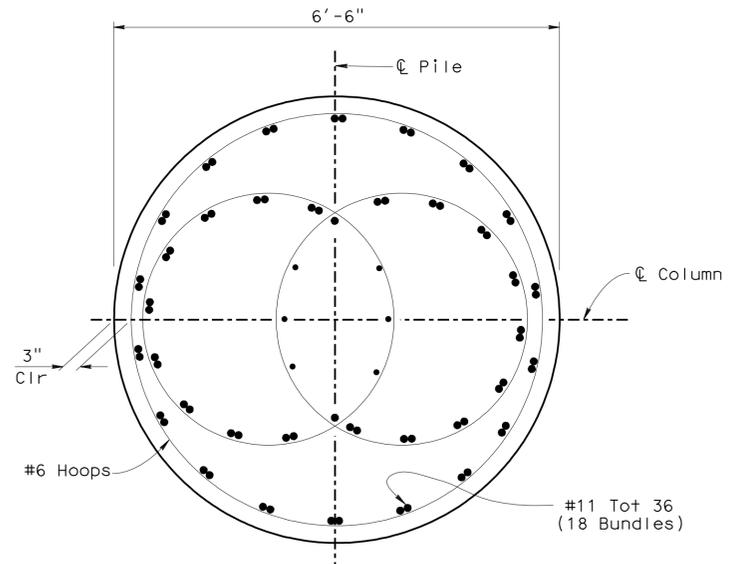


**BENT 2 ELEVATION (SHOWN)**  
**BENT 3,4,5,6,7 AND 8 (SIMILAR)**

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

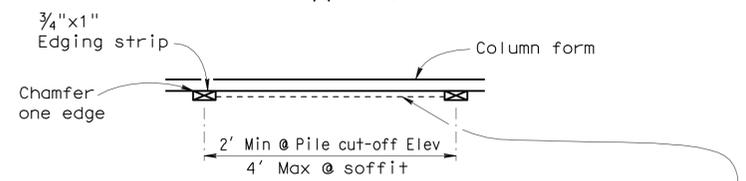


**SECTION A-A**  
 $\frac{3}{4}''=1'-0''$



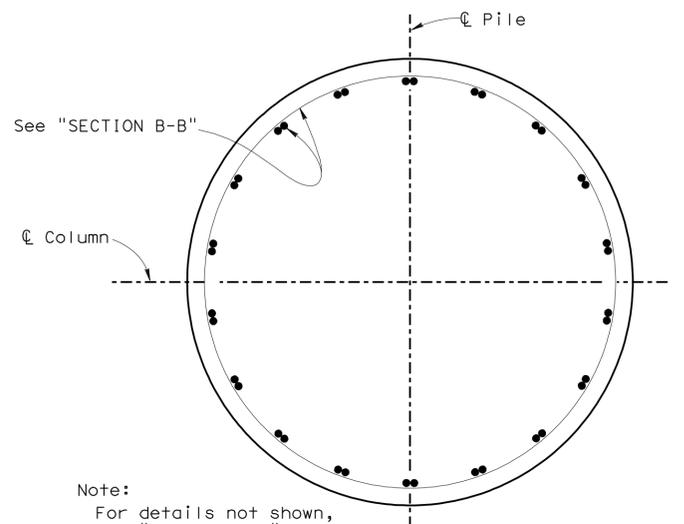
**SECTION B-B**  
 $\frac{3}{4}''=1'-0''$

Note:  
 For reinforcement not shown, see "SECTION A-A"



Architectural treatment to consist of vertically aligned striations produced by stapling 10ga 2" X 2" bright basic woven wire mesh to column form with individual squares aligned vertically. After forms are removed, the fabric shall be torn out of the concrete.

**ARCHITECTURAL TREATMENT DETAIL**  
 NO SCALE



**SECTION C-C**  
 $\frac{3}{4}''=1'-0''$

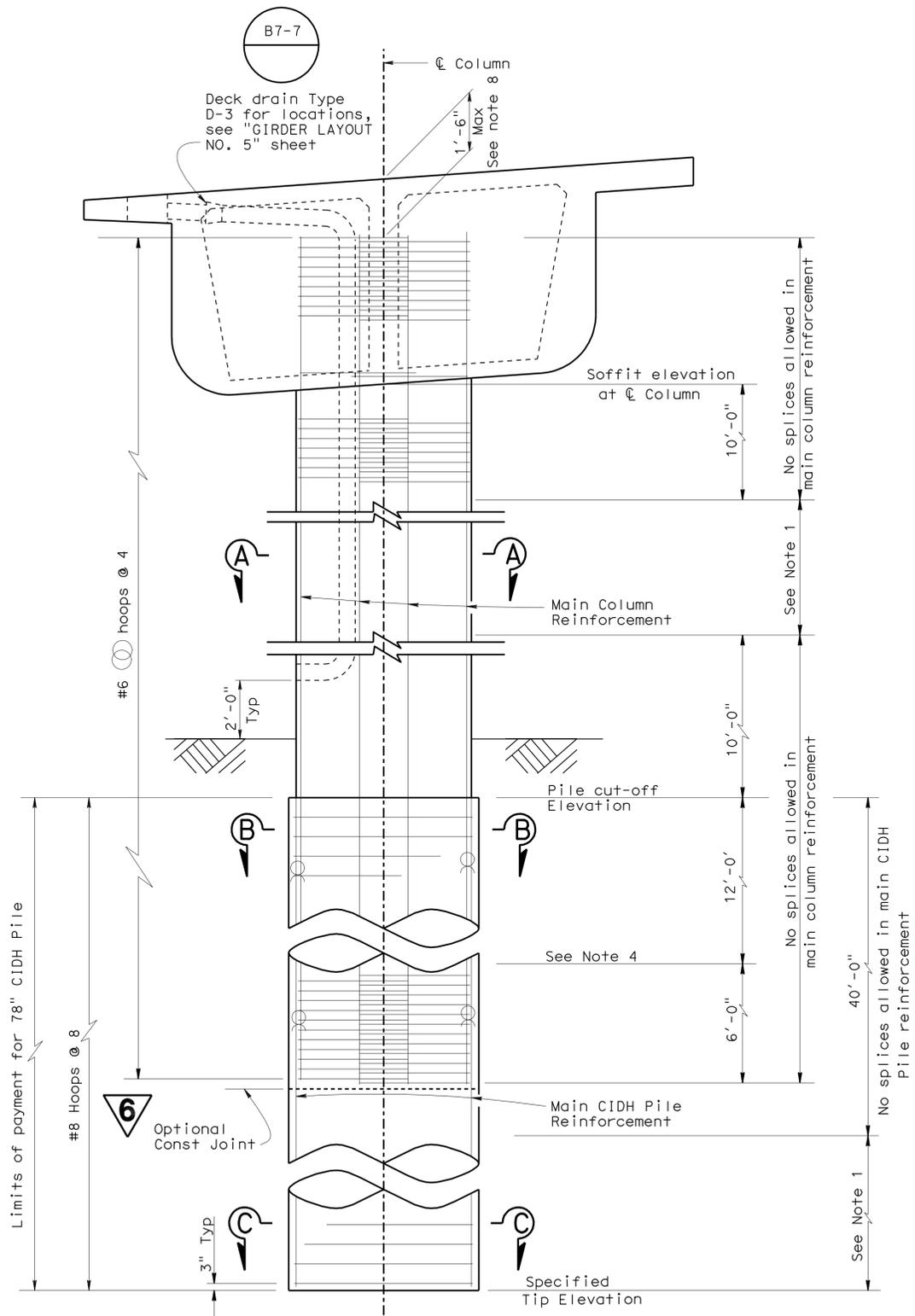
- Note:  
 For details not shown, see "SECTION A-A"
- Notes:
1. Only staggered ultimate butt splices are allowed in main CIDH pile and main column reinforcement within this zone. splices shall be staggered a minimum of 5 ft.
  2. Not all column or CIDH pile reinforcement shown in elevation.
  3. For pile data see "INDEX TO PLANS" sheet.
  4. Terminate every other main column Reif at this location.
  5. For bent cap details see "BENT DETAILS NO. 3" sheet.
  6. For main column Reinf, see "COLUMN REINF TABLE" on "BENT DETAILS NO. 3" sheet
  7. All hoops are ultimate butt spliced continuous.
  8. Main column Reinf which interferes with post-tensioning ducts may be terminated 2 inches below the bottom of the ducts
  9. Indicate bundled reinforcement

**REVISOR PER ADDENDUM No. 6**  
**DATED JUNE 7, 2011**

DESIGN	BY Kyoung Lee	CHECKED Asnaashari/Aquino	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	24-0193R	DEL PASO PARK OVERHEAD (WIDEN)	
DETAILS	BY Jie Tang/Shumei Jiang	CHECKED Asnaashari/Aquino			POST MILE	9.0		BENT DETAILS NO. 1
QUANTITIES	BY Greg Thornton	CHECKED Jinrong Zhou			CU 03 EA 379701	REVISION DATES		
STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)			ORIGINAL SCALE IN INCHES FOR REDUCED PLANS	0 1 2 3	DISREGARD PRINTS BEARING EARLIER REVISION DATES	SHEET 10 OF 58		

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yol, Sac	80	R10.9/R11.7, MO.0/M10.4	829	1012

Eric Watson 3/26/10  
 REGISTERED CIVIL ENGINEER DATE  
 9-7-10  
 PLANS APPROVAL DATE  
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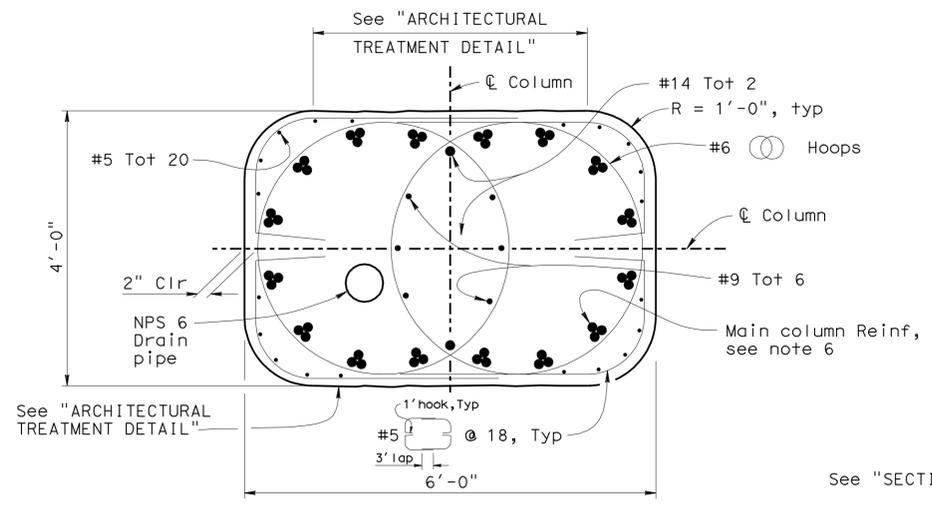


**BENT 9 ELEVATION (SHOWN)**

**BENT 10 (SIMILAR)**

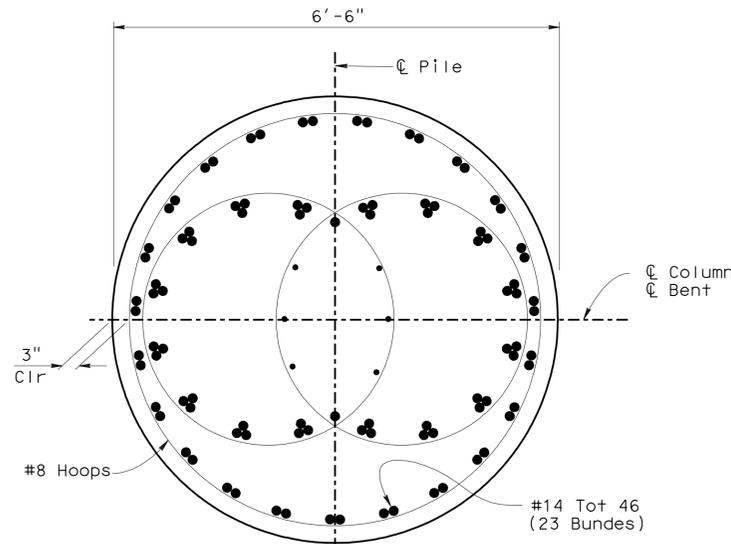
3/8"=1'-0"

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



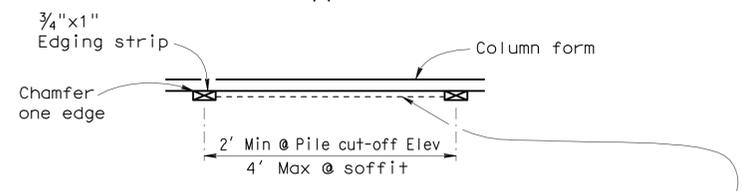
**SECTION A-A**

3/4"=1'-0"



**SECTION B-B**

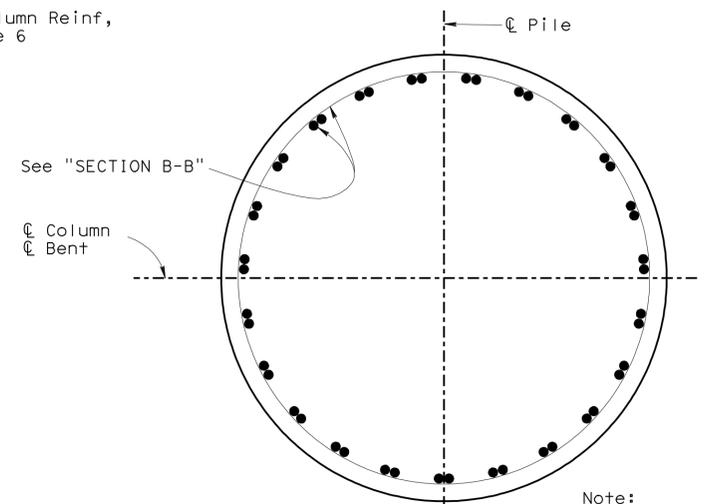
3/4"=1'-0"



Architectural treatment to consist of vertically aligned striations produced by stapling 10ga 2" X 2" bright basic woven wire mesh to column form with individual squares aligned vertically. After forms are removed, the fabric shall be torn out of the concrete.

**ARCHITECTURAL TREATMENT DETAIL**

NO SCALE



**SECTION C-C**

3/4"=1'-0"

Note:  
For details not shown, see "SECTION B-B"

- Notes:
1. Only staggered ultimate butt splices are allowed in main CIDH pile and main column reinforcement within this zone. splices shall be staggered a minimum of 7 ft.
  2. Not all column or CIDH pile reinforcement shown in elevation.
  3. For pile data see "INDEX TO PLANS" sheet.
  4. Terminate every other main column Reinf at this location.
  5. For bent cap details see "BENT DETAILS NO. 3" sheet.
  6. For main column Reinf, see "COLUMN REINF TABLE" on "BENT DETAILS NO. 3" sheet
  7. All hoops are ultimate butt spliced continuous.
  8. Main column Reinf which interferes with post-tensioning ducts may be terminated 2 inches below the bottom of the ducts.
  9. Q indicates bundled reinforcement.

**REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011**

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)	DESIGN	By Kyoung Lee	CHECKED Asnaashari/Aquino	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	24-0193R	DEL PASO PARK OVERHEAD (WIDEN) BENT DETAILS NO. 2
	DETAILS	By Jie Tang/Shumei Jiang	CHECKED Asnaashari/Aquino			POST MILE	9.0	
	QUANTITIES	By Greg Thornton	CHECKED Jinrong Zhou			CU 03 EA 379701	REVISION DATES	
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS				0 1 2 3	FILE => 24-0193r-h-bd02.add	DISREGARD PRINTS BEARING EARLIER REVISION DATES		SHEET 11 OF 58

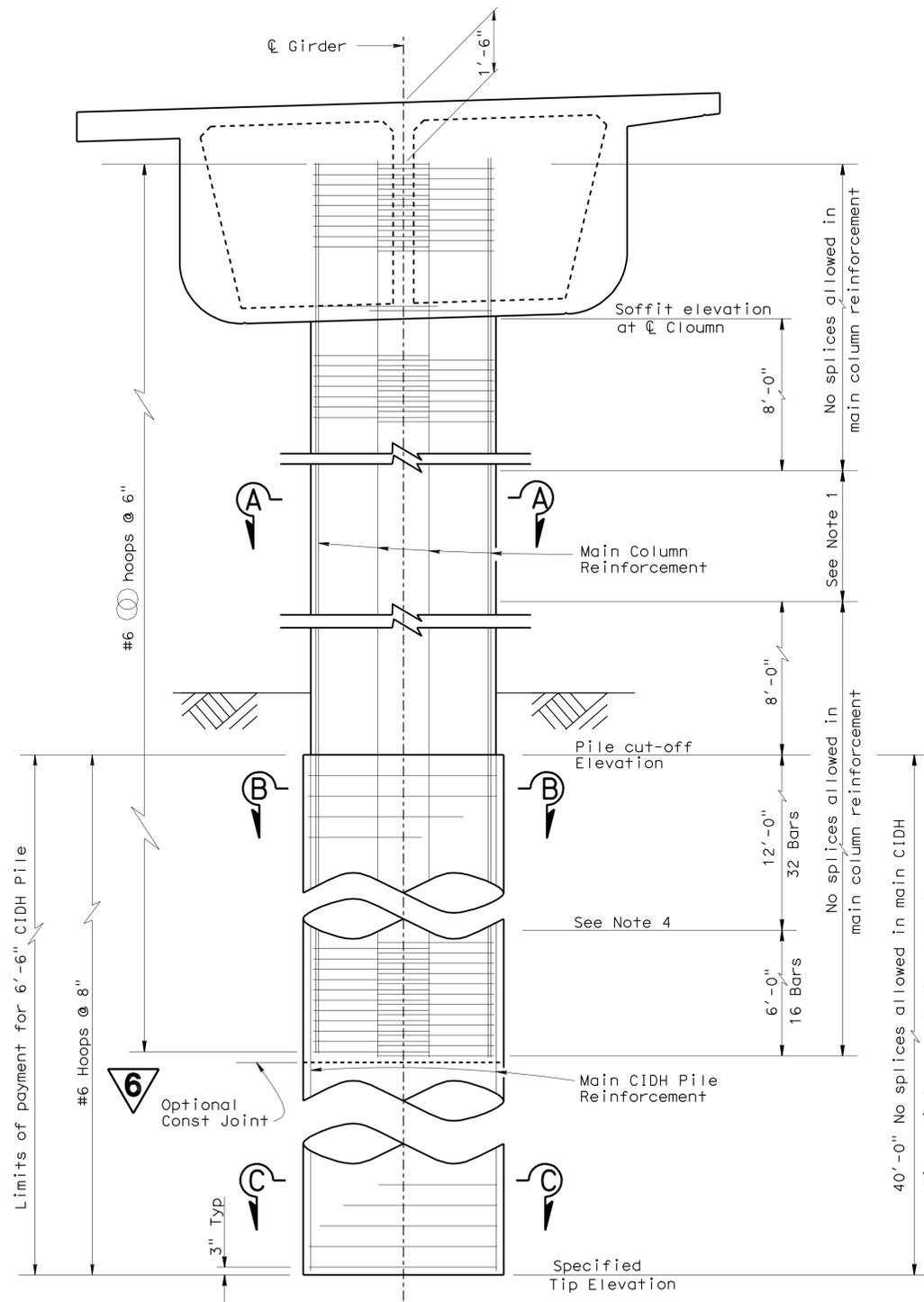
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yol, Sac	80	R10.9/R11.7, M0.0/M10.4	886	1012

Eric Watson 3/29/10  
 REGISTERED CIVIL ENGINEER DATE

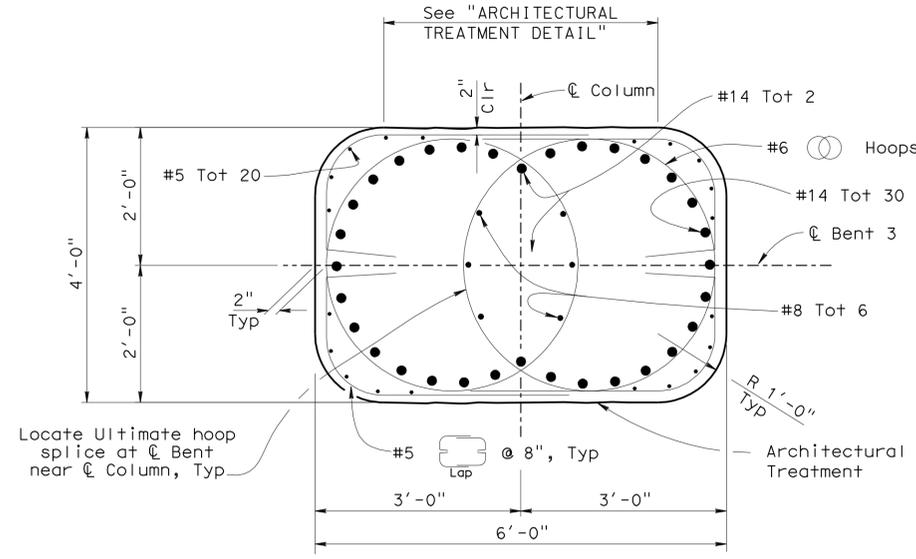
9-7-10  
 PLANS APPROVAL DATE

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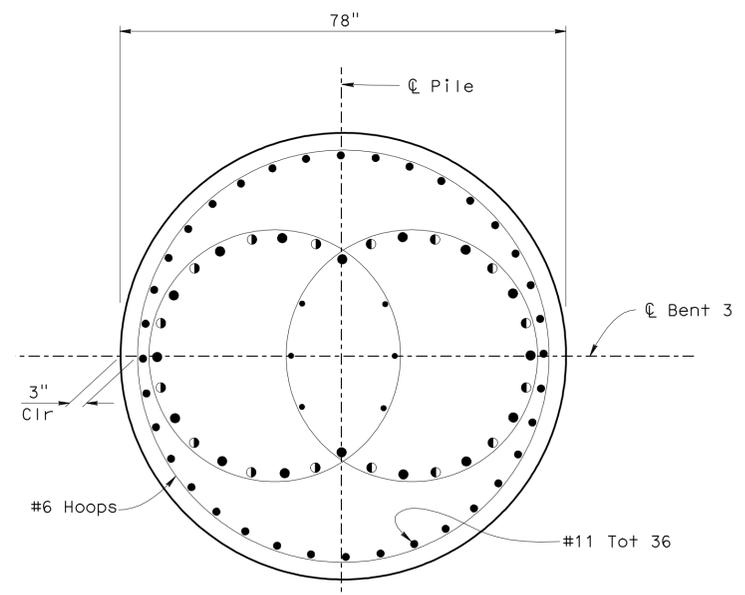
Eric Watson  
 No. 64273  
 Exp. 6-30-11  
 CIVIL  
 STATE OF CALIFORNIA



**BENT ELEVATION**  
 $\frac{3}{8}''=1'$

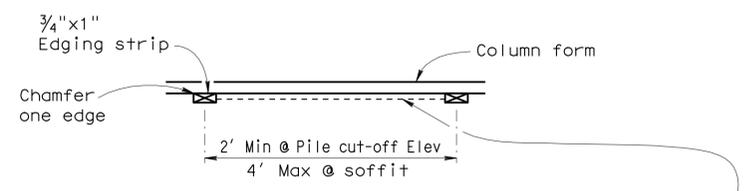


**SECTION A-A**  
 $\frac{3}{4}''=1'$



**SECTION B-B**  
 $\frac{3}{4}''=1'$

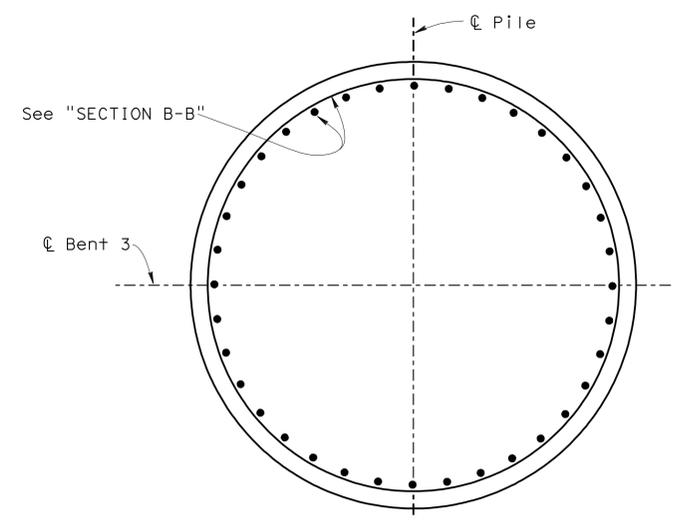
● & ● - With 32 bars  
 ● - With 16 bars



**ARCHITECTURAL TREATMENT DETAIL**  
 NO SCALE

Architectural treatment to consist of vertically aligned striations produced by stapling 10ga 2" X 2" bright basic woven wire mesh to column form with individual squares aligned vertically. After forms are removed, the fabric shall be torn out of the concrete.

- Notes:
1. Only staggered ultimate butt splices are allowed in main CIDH pile and main column reinforcement within this zone. Splices shall be staggered a minimum of 5 ft.
  2. Not all column or CIDH pile reinforcement shown in elevation.
  3. For pile data see "INDEX TO PLANS" sheet.
  4. Terminate every other column longitudinal bar at this location.
  5. All hoops are ultimate butt spliced continuous.



**SECTION C-C**  
 $\frac{3}{4}''=1'$

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

**6 REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011**

DESIGN	BY Eric Watson	CHECKED G Jones/V Shostak	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO.	DEL PASO PARK OVERHEAD (WIDEN)
DETAILS	BY Jie Tang	CHECKED Greg Jones			24-0193L	
QUANTITIES	BY D Sessions/V Shostak	CHECKED A Pearson/Y Huang			POST MILE 9.0	

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
03	Yol,Sac	80	R10.9/R11.7, M0.0/M10.4	969	1012

Eric Watson 4/12/10  
REGISTERED CIVIL ENGINEER DATE

9-7-10  
PLANS APPROVAL DATE

Eric Watson  
No. 64273  
Exp. 6-30-11  
CIVIL  
STATE OF CALIFORNIA

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### GENERAL NOTES LOAD AND RESISTANCE FACTOR DESIGN

DESIGN: AASHTO LRFD Specifications, Third Edition With the 2006 Interim Revisions and Caltrans Amendments V 0.06.

SEISMIC DESIGN: Caltrans Seismic Design Criteria (SDC), Version 1.4 June, 2006.

DEAD LOAD: Includes 35 psf for future wearing surface.

LIVE LOADING: HL-93 and permit design load.

SEISMIC LOADING: SDC ARS Curve For Soil Profile Type D (M=6.5±0.25) (Peak Rock Acceleration = 0.2g).

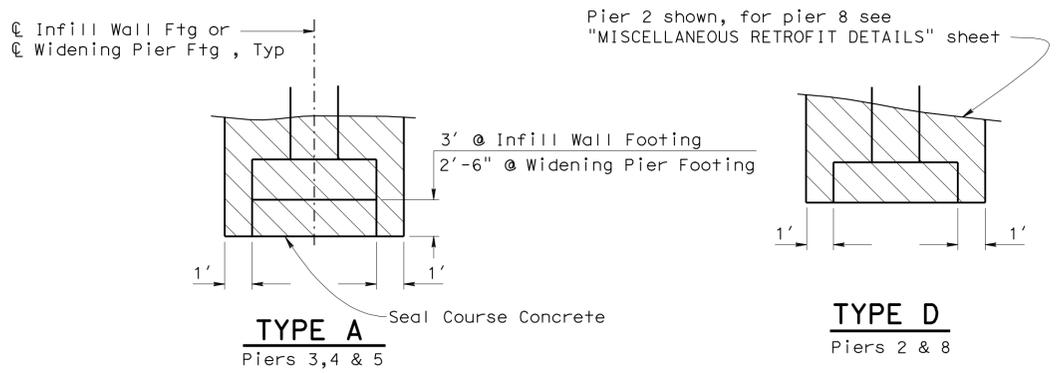
REINFORCED CONCRETE:  $f_y = 60$  ksi  
 $f'_c = 3.6$  ksi,  $n = 8$   
 $f'_c = 6.0$  ksi,  $n = 6$

Pile Data Table

Location	Pile Type	Design Load (Kips)	Nominal Resistance		Design Pile Tip Elevation (ft)	Specific Pile Tip Elevation (ft)	Nominal Driving Resistance (Kips)
			Compression (Kips)	Tension (Kips)			
<b>Bridge Widening</b>							
Abut 1	HP 10X57	140	280	0	-14.0 (1)	-14.0	280
Pier 2	HP 10X57	140	280	0	-47.0 (1)(2)	-47.0	280
Pier 3	HP 10X57	140	280	0	-54.5 (1)(2)	-54.5	280
Pier 4	HP 10X57	140	280	0	-54.5 (1)(2)	-54.5	280
Pier 5	HP 10X57	140	280	0	-52.5 (1)(2)	-52.5	280
Pier 6	HP 10X57	140	280	0	-34.0 (1)	-34.0	280
Pier 7	HP 10X57	140	280	0	-50.0 (1)	-50.0	280
Pier 8	HP 10X57	140	280	0	-61.0 (1)	-61.0	280
Abut 9	HP 10X57	140	280	0	-8.0 (1)	-8.0	280
<b>In-Fill Walls</b>							
Pier 2	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-9.5 (1)(2)	-9.5	180
Pier 3	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-20.5 (1)(2)	-20.5	180
Pier 4	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-21.0 (1)(2)	-21.0	180
Pier 5	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-19.0 (1)(2)	-19.0	180
Pier 6	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-0.5 (1)(2)	-0.5	180
Pier 7	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-16.5 (1)(2)	-16.5	180
Pier 8	PP14 X 0.250 ALT "V" (Close - Ended)	90	180	0	-28.5 (1)(2)	-28.5	180

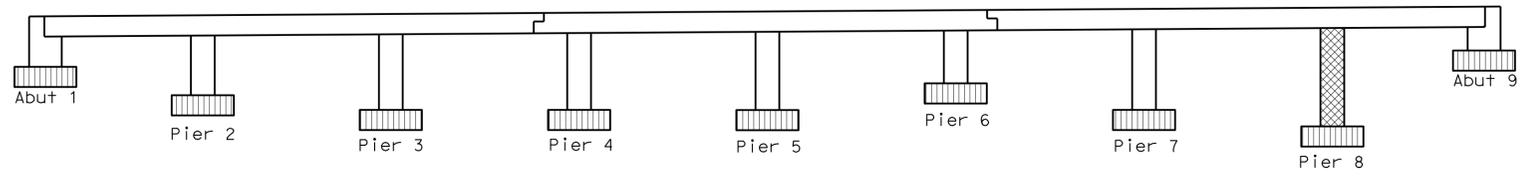
Note: Design Pile Tip Elevation is controlled by the following demands:

- Compression.
  - Scour Potential exists to an approximate elevation of 5.0 ft at Pier 2 and an approximate elevation of 0.0 ft at Piers 3, 4 and 5.
- Bottom of predrilled hole elevation at Piers 2 & 5 is 0.0 ft for both bridge widening and infill walls.



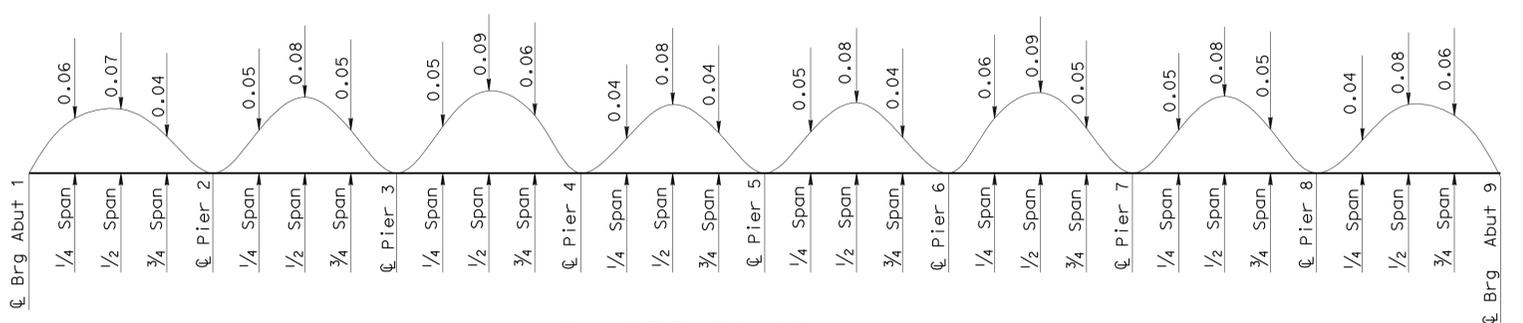
### 6 REVISED PER ADDENDUM No. 6 DATED JUNE 7, 2011

### LIMITS OF PAYMENT - EXCAVATION NO SCALE



### CONCRETE STRENGTH AND TYPE LIMITS NO SCALE

- Legend :
- Structural Concrete, Bridge
  - Structural Concrete, Bridge ( $f'_c = 6.0$  ksi)
  - Structural Concrete, Bridge Footing
  - Structure Excavation (Type A & D), (Including Infill Walls)



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

### 1 CAMBER DIAGRAM NO SCALE REVISED PER ADDENDUM No. 1 DATED MARCH 24, 2011

Note: Camber values do not include information on of formwork or falsework settlement.

QUANTITIES	
BRIDGE REMOVAL (PORTION), LOCATION E	LUMP SUM
STRUCTURE EXCAVATION (BRIDGE)	635 CY
STRUCTURE EXCAVATION (TYPE A)	1,070 CY
STRUCTURE EXCAVATION (TYPE D)	374 CY
STRUCTURE BACKFILL (BRIDGE)	513 CY
AGGREGATE BASE (APPROACH SLAB)	25 CY
FURNISH STEEL PILING (HP 10 X 57)	7,987 LF
DRIVE STEEL PILE (HP 10 X 57)	132 EA
FURNISH PILING (CLASS 90) (ALTERNATIVE V)	1,176 LF
DRIVE PILE (CLASS 90) (ALTERNATIVE V)	42 EA
STRUCTURAL CONCRETE, BRIDGE FOOTING	261 CY
STRUCTURAL CONCRETE, BRIDGE	4,060 CY
STRUCTURAL CONCRETE, BRIDGE (CHANNEL)	14 CY
STRUCTURAL CONCRETE, SEAL SLAB	132 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE N)	93 CY
STRUCTURAL CONCRETE, APPROACH SLAB (TYPE R)	253 CY
DRILL AND BOND DOWEL	3,170 LF
PTFE BEARING	12 EA
JOINT SEAL (MR 1")	165 LF
JOINT SEAL (MR 1 1/2")	294 LF
BONDED JOINT SEAL	147 LF
BAR REINFORCING STEEL (BRIDGE)	1,709,736 LB
HEADED BAR REINFORCEMENT	35,700 EA
ABUTMENT LUMBER BLOCKING	8 MFBM
ROCK SLOPE PROTECTION (NO. 1, METHOD B)	1,750 CY
ROCK SLOPE PROTECTION (NO. 3, METHOD B)	630 CY
SLOPE PAVING (CONCRETE)	169 CY
MISCELLANEOUS METAL (RESTRAINER - BAR TYPE)	3,214 LB
CHAIN LINK RAILING (TYPE 7 MODIFIED)	184 LF
CONCRETE BARRIER (TYPE 60A)	842 LF
CONCRETE BARRIER (TYPE 736 MODIFIED)	1,684 LF
REMOVE ASPHALT CONCRETE SURFACING	80,100 SQFT
STRUCTURAL STEEL (BRIDGE)	2,675 LB

DESIGN BY Greg Thornton	CHECKED Vadim Shostak	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 1	BRIDGE NO. 24-0218	NATOMAS EAST CANAL BOH (WIDEN) GENERAL NOTES
DETAILS BY Jinrong Zhou	CHECKED Vadim Shostak			POST MILE 5.21	
QUANTITIES BY Eric Watson	CHECKED Jie Tang				

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 10/25/05)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

CU 03  
EA 379701

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
06/18/07 04/28/09 03/28/10 04/28/10 6/2/10 3-10-11 12/08/08 12/16/08 01/15/09	2	26

FILE => 24-0218-b-gnote.odd