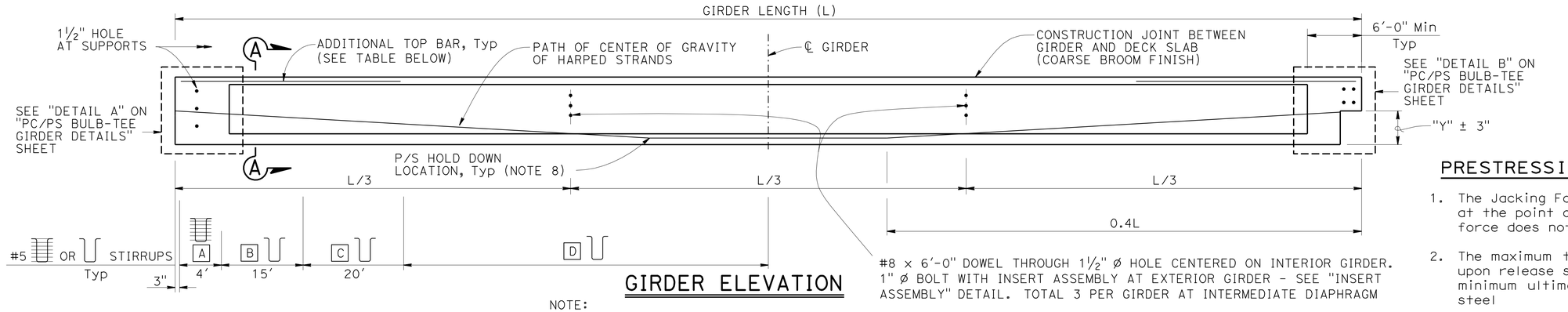
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	101	114

Dawit Tadella Geez 01/20/12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Dawit T Worku — No. C60711 — Exp. 12-31-12 — 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.



GIRDER ELEVATION

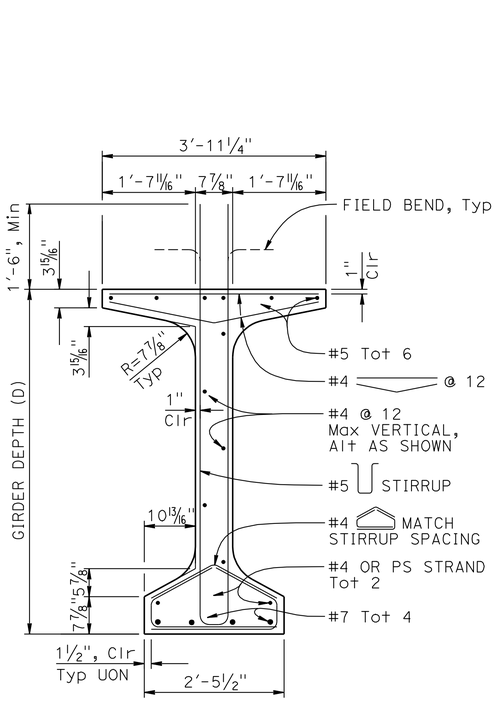
NOTE:
Girder ends to be cast such that a level surface is provided at bearing pads

LOCATION	A	B	C	D
ALL GIRDERS	#5 @ 4"	#5 @ 6"	#5 @ 9"	#5 @ 12"

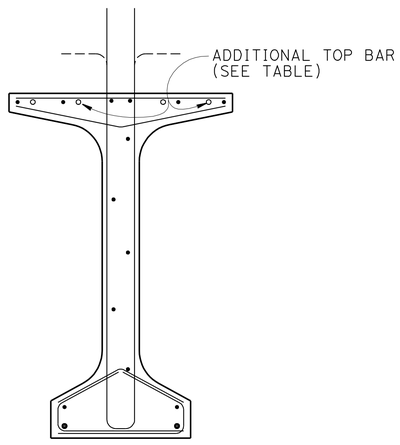
LOCATION	GIRDER LENGTH (L)	GIRDER DEPTH (D)	"X" (in)	JACKING FORCE (P) (kips)	As, Min (in²)	"Y" (in)	CONCRETE STRENGTH (ksi) f'ci	CONCRETE STRENGTH (ksi) f'c	MIDSPAN DEAD LOAD DEFLECTION (in) DECK	MIDSPAN DEAD LOAD DEFLECTION (in) RAIL	ADDITIONAL TOP BAR (EACH END)
GIRDERS A1 to Q1	122'-2"	55"	5"	1670	8.24	19	5.5	7	1.78	0.06	#6 x 8'-0" Tot 4
			7.0"	1755	8.66						
GIRDERS A2 to Q2	122'-0"	55"	5"	1670	8.24	19	5.5	7	1.78	0.06	#6 x 8'-0" Tot 4
			7.0"	1755	8.66						

PRESTRESSING NOTES

1. The Jacking Force (P) is the jacking force required at the point of control along the span. The jacking force does not include any fabrication specific losses
2. The maximum tensile stress in the prestressing steel upon release shall not exceed 75% of thespecified minimum ultimate tensile strength of the prestressing steel
3. The maximum temporary tensile stress (jacking stress) in the prestressing steel shall not exceed 80% of the specified minimum ultimate tensile strength of the prestressing steel
4. Concrete strength:
   f'ci is at time of initial stressing
   f'c is at 28 days
5. Deflection components are informational and will be used to set screed line elevations
6. Screed line elevations for deck concrete will be determined by the Engineer
7. Contractor may interpolate "P" and "X" values between the limits shown, as approved by the Engineer
8. There shall be a minimum of two hold downs per girder for the prestressing
9. Prestressing strand shall be 270 ksi low relaxation
10. As, Min is the minimum area required of prestressing steel

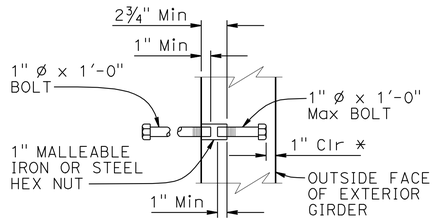


TYPICAL GIRDER SECTION



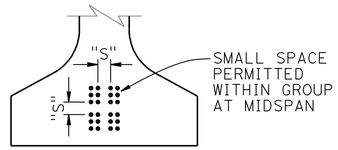
SECTION A-A

NOTE:
For details shown but not noted, see "TYPICAL GIRDER SECTION" detail.



* DIMENSION MAY BE INCREASED WHEN INSERT ASSEMBLY IS USED AT END BLOCK

INSERT ASSEMBLY



CLEARANCES FOR PRETENSIONED STRANDS

NOTES:

1. Strands may be bundled in groups consisting of 3 vertically, 2 horizontally, and separated at the ends
2. The minimum distance "S" between groups or individual strands is 1¾" for 0.5" ø strand and 2" for 0.6" ø strand
3. "S" is measured between centers of adjacent strands
4. Approval by Engineer is required for deviation

NOTE: For "WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE", see "PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)" sheet

NO SCALE

	BY	CHECKED
DESIGN	Kumar Ghosh	Dawit Worku
DETAILS	Antonette Ong	Dawit Worku
QUANTITIES	Homa Iraninejadian	Brijesh Patel

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO. 53-3076
POST MILE R 7.8

PARAMOUNT BLVD OC (REPLACE)
PC/PS BULB-TEE GIRDER (ALTERNATE HARPED STRANDS)

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3622
PROJECT NUMBER & PHASE: 0712000254 1
CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
01/05/12	01/20/12			17	27

FILE => 53-3076-1-gdt_harped_str.dgn

USERNAME => s1216l4 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	102	114

Dawit Tadella Worku 01/20/12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Dawit T Worku — No. C60711 — Exp. 12-31-12 — CIVIL — STATE OF CALIFORNIA

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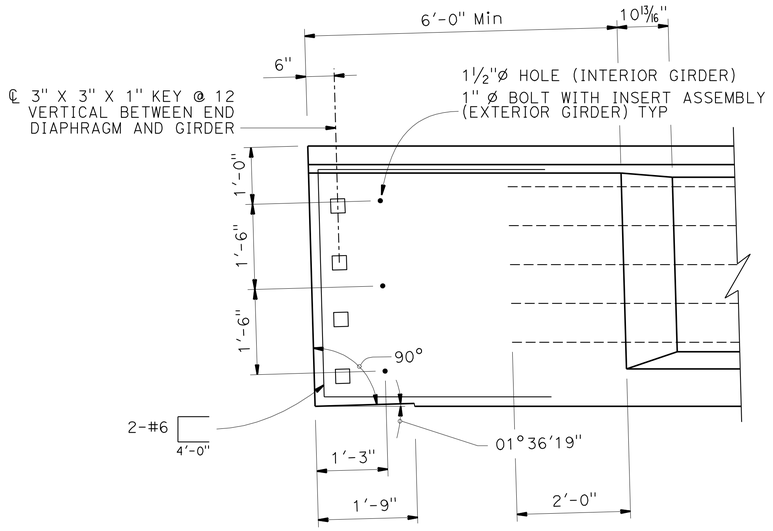
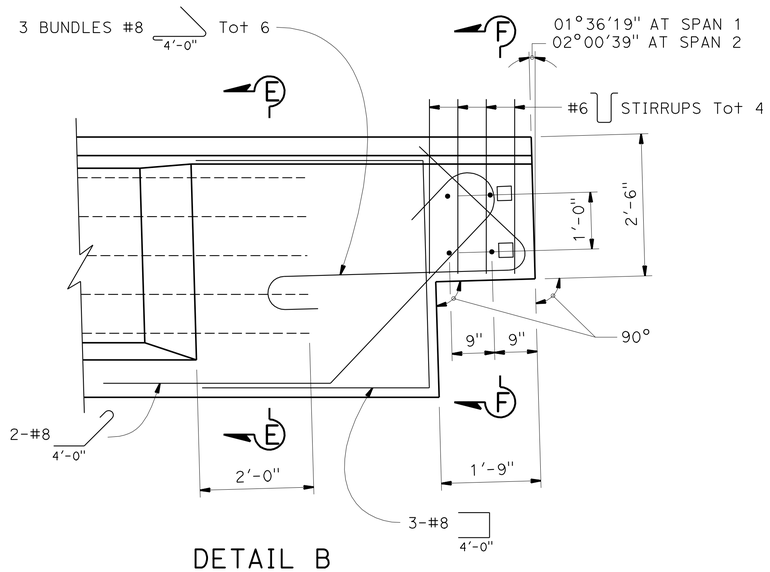
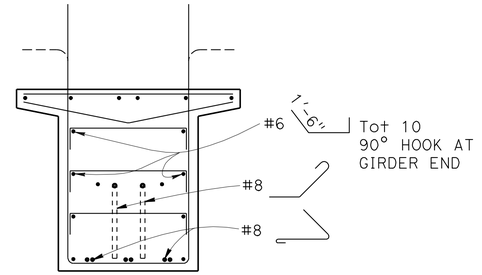


DETAIL A (SPAN 1)
3/4" = 1'-0"



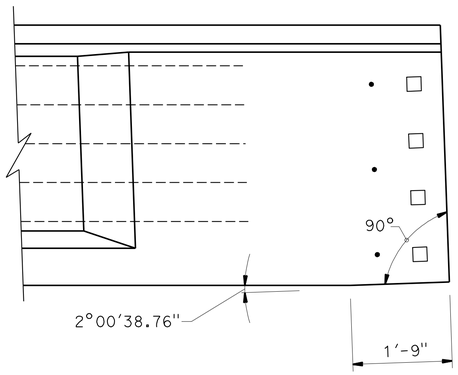
DETAIL B
3/4" = 1'-0"



SECTION F-F
NO SCALE

NOTE:

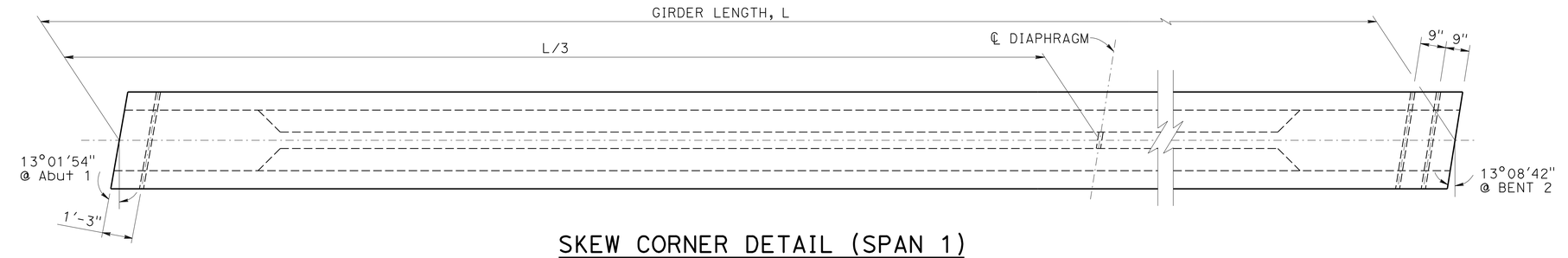
For details shown but not noted, see "SECTION E-E".



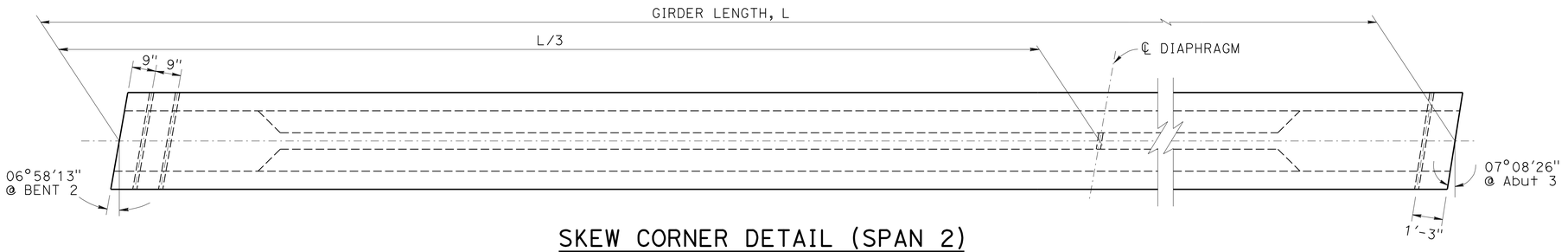
DETAIL A (SPAN 2)
3/4" = 1'-0"

NOTE:

For details not shown, see "DETAIL A (SPAN 1)"



SKEW CORNER DETAIL (SPAN 1)
NO SCALE



SKEW CORNER DETAIL (SPAN 2)
NO SCALE

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

	BY	CHECKED
DESIGN	Kumar Ghosh	Dawit Worku
DETAILS	Paulo Perez	Dawit Worku
QUANTITIES	Homa Iraninejadian	Brijesh Patel

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO. 53-3076
POST MILE R 7.8

PARAMOUNT BLVD OC (REPLACE)
PC/PS BULB-TEE GIRDER DETAILS

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3622
PROJECT NUMBER & PHASE: 0712000254 1
CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
01/02/12	01/20/12			18	27

FILE => 53-3076-1-glr_dt.dgn

USERNAME => s1216l4 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	103	114

Dawit Tadella Worku 01/20/12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

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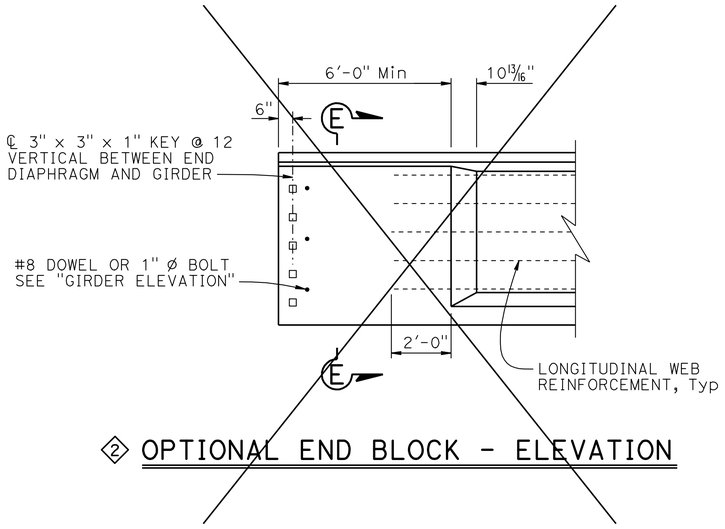
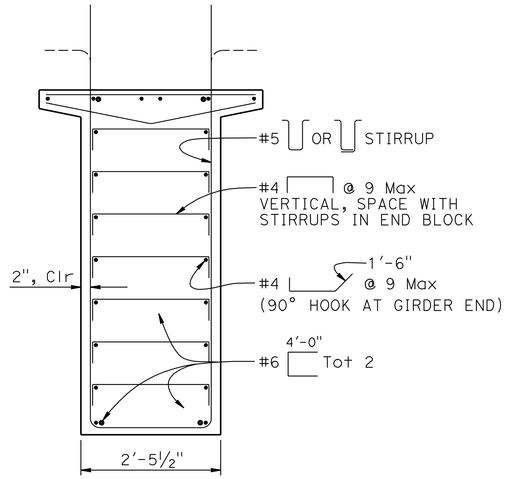
REGISTERED PROFESSIONAL ENGINEER — Dawit T Worku — No. C60711 — Exp.12-31-12 — CIVIL — STATE OF CALIFORNIA



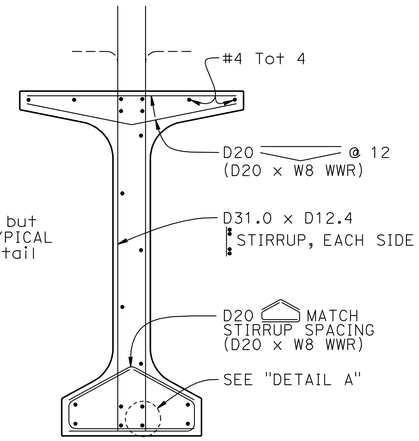
② OPTIONAL END BLOCK - ELEVATION



NOTE:
For details not shown, see "TYPICAL GIRDER SECTION" detail

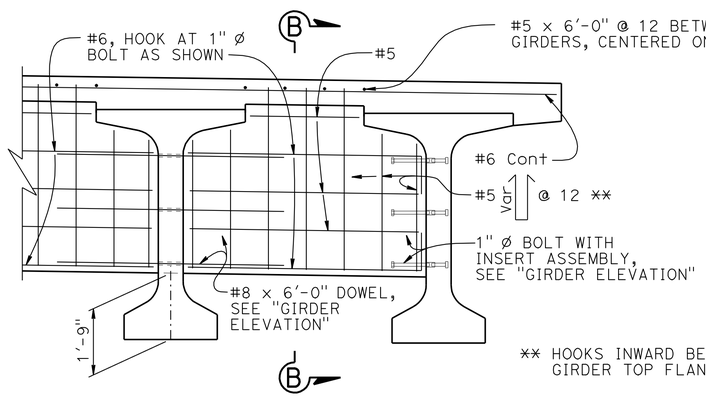
SECTION E-E

NOTES:
1. For details shown but not noted, see "TYPICAL GIRDER SECTION" detail
2. W8 WWR not shown

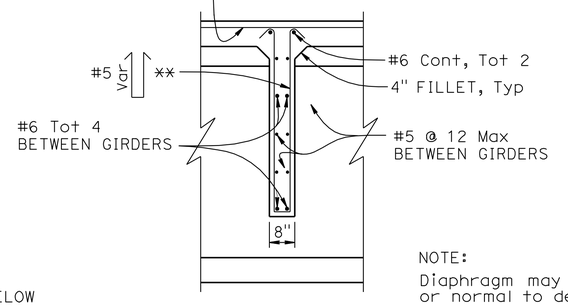


WELDED WIRE REINFORCEMENT (WWR) ALTERNATIVE

NOTE:
For "GIRDER ELEVATION" and "TYPICAL GIRDER SECTION", see "PC/PS BULB-TEE GIRDER (DEBONDED STRANDS)" sheet

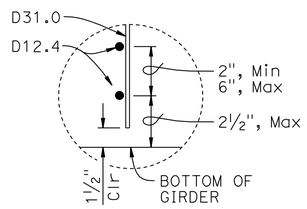


INTERMEDIATE DIAPHRAGM



NOTE:
Diaphragm may be vertical or normal to deck grade

SECTION B-B



DETAIL A

NOTES:
1. Bottom of stirrup WWR detail shown, top similar
2. Longitudinal wire area shall be 40% or greater of vertical deformed wire's area

① NOTES:
1. For intermediate diaphragm locations, see "GIRDER LAYOUT" sheets.
2. For Insert Assembly details, see "PC/PS BULB-TEE GIRDER DETAILS NO. 1" sheet

SPECIAL DETAILS

NO SCALE

REVISED STANDARD DRAWING

FILE NO. xs1-121-2

APPROVAL DATE July 2011

① Additional Details and Notes
② Deleted Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-3076
POST MILE R 7.8

PARAMOUNT BLVD OC (REPLACE)
PC/PS BULB-TEE GIRDER (MISCELLANEOUS DETAILS)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3622
PROJECT NUMBER & PHASE: 0712000254 1
CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
01/20/12	01/20/12			19	27

FILE => 53-3076-1-gir_misc_dt.dgn

USERNAME => s121614 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	104	114

Dawit Tadella Worku 01/20/12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
Dawit T Worku
No. C60711
Exp.12-31-12
CIVIL
STATE OF CALIFORNIA

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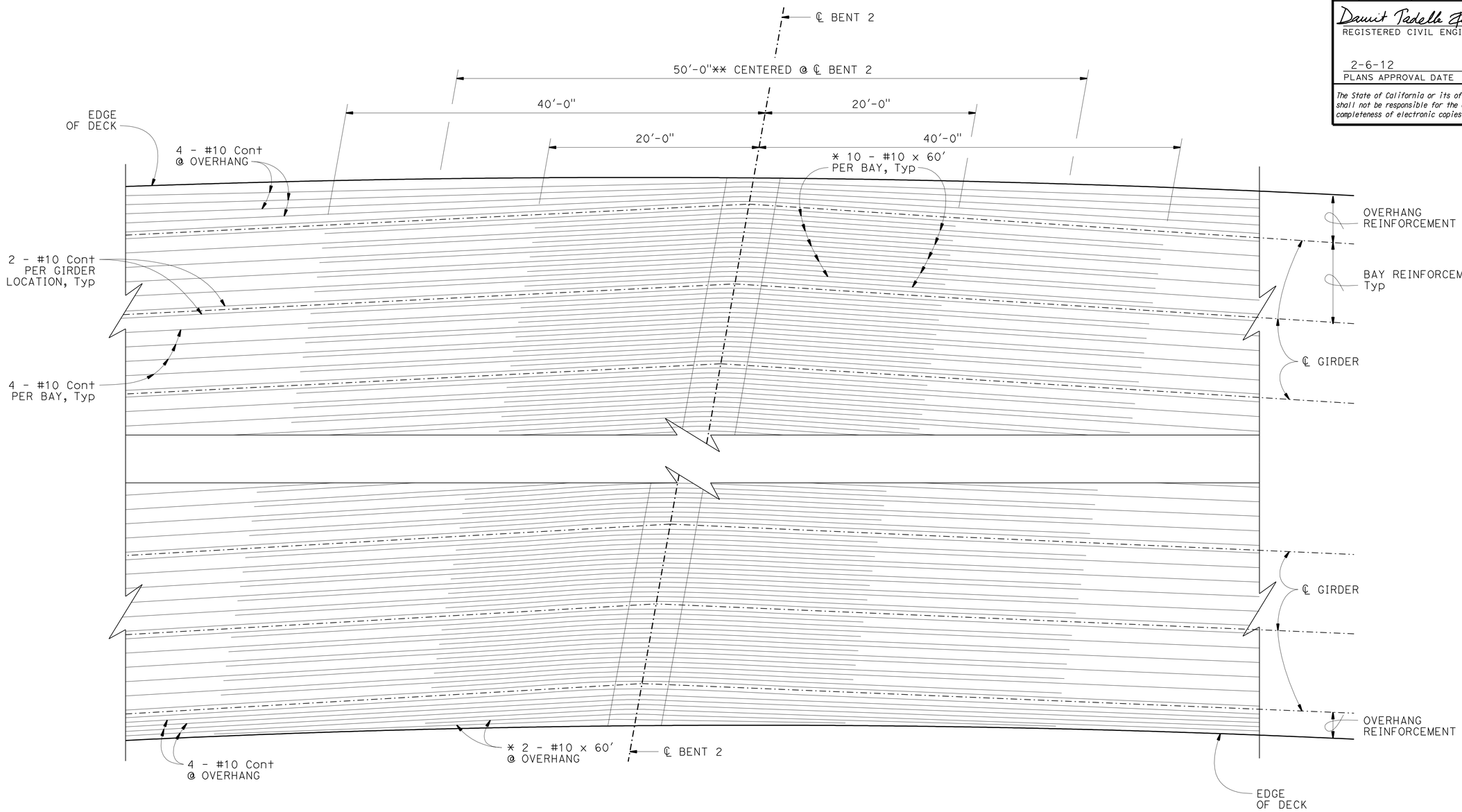

ADDITIONAL LONGITUDINAL REINFORCEMENT

1" = 5'-0"

Notes:

1. Reinforcement spaced evenly between girders and at overhang.
2. No lap or mechanical splices allowed in main longitudinal reinforcement. Only service splice is allowed in #10 continuous bars.

* No splice allowed for all non-continuous bars

** No splice zone for all reinforcement

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

	BY	CHECKED
DESIGN	Kumar Ghosh	Dawit Worku
DETAILS	Paulo Perez	Dawit Worku
QUANTITIES	Homa Iraninejadian	Brijesh Patel

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

BRIDGE NO. 53-3076
POST MILE R 7.8

PARAMOUNT BLVD OC (REPLACE)
ADDITIONAL GIRDER REINFORCEMENT

STRUCTURES DESIGN DETAIL SHEET (ENGLISH) (REV. 09-01-10)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3622
PROJECT NUMBER & PHASE: 0712000254 1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
12/31/11	01/20/12			20	27

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USERNAME => s121614 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:04

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	105	114

Dawit Tadella Gee 01/20/12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

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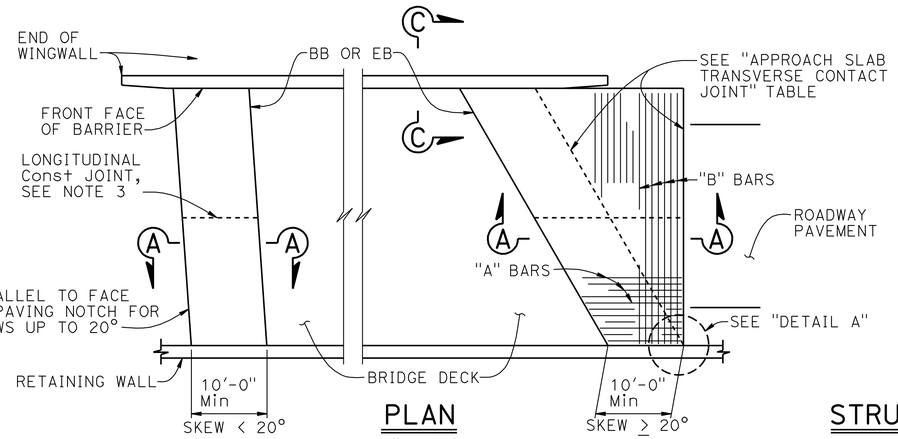
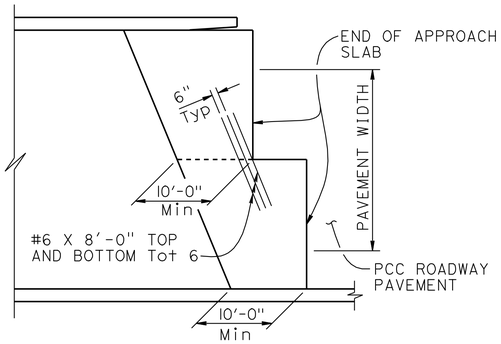
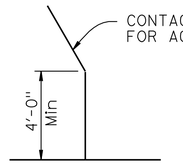
REGISTERED PROFESSIONAL ENGINEER — Dawit T Worku — No. C60711 — Exp. 12-31-12 — CIVIL — STATE OF CALIFORNIA



PLAN
1" = 10'

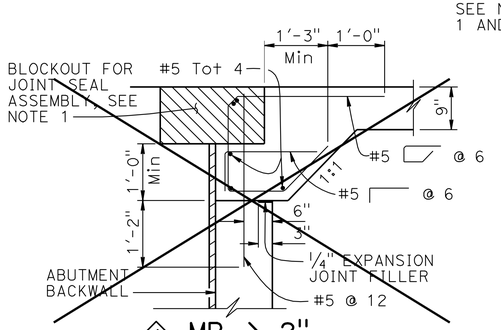


STRUCTURE APPROACH - END STAGGER DETAIL
NO SCALE

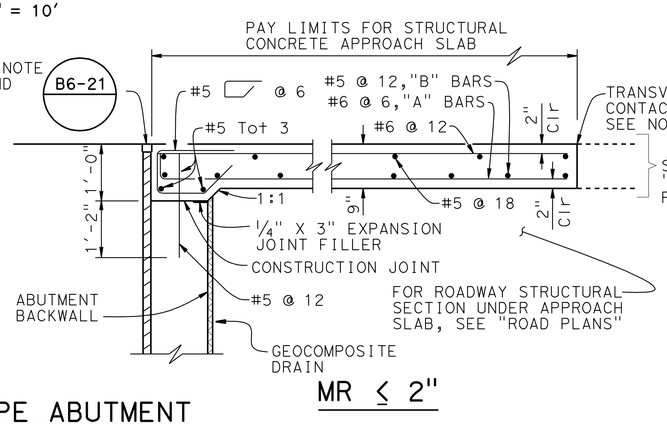


DETAIL A
No Scale

APPROACH SLAB TRANSVERSE CONTACT JOINT		
APPROACH SKEW	AC ROADWAY PAVEMENT	WITH PCC ROADWAY PAVEMENT
< 20°	PARALLEL TO FACE OF PN	PARALLEL TO FACE OF PN
20° - 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER LINES 24' TO 36' APART
> 45°	PARALLEL TO FACE OF PN USE "DETAIL A"	STAGGER AT EACH LANE LINE



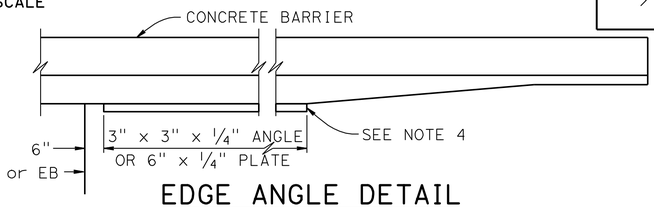
① MR > 2"



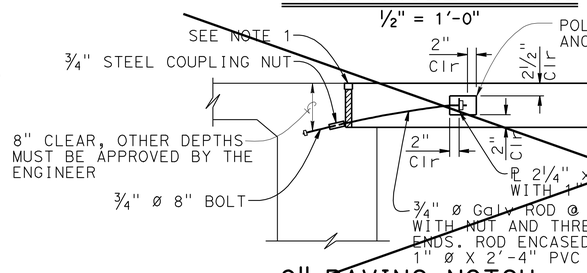
MR ≤ 2"

SEAT TYPE ABUTMENT
SECTION A-A
3/4" = 1'-0"

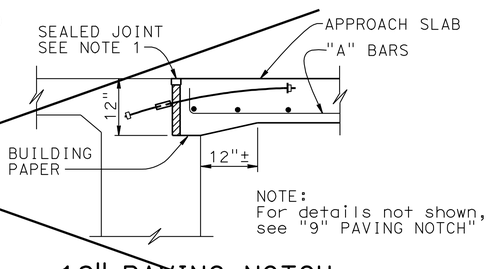
NOTE: Seat type abutment shown, for diaphragm type abutment, see "ABUTMENT TIE DETAILS"



EDGE ANGLE DETAIL
1/2" = 1'-0"

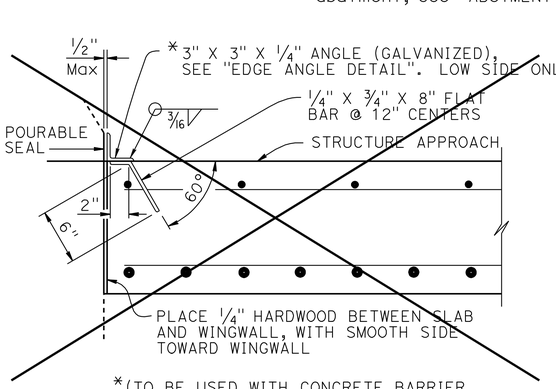


9" PAVING NOTCH

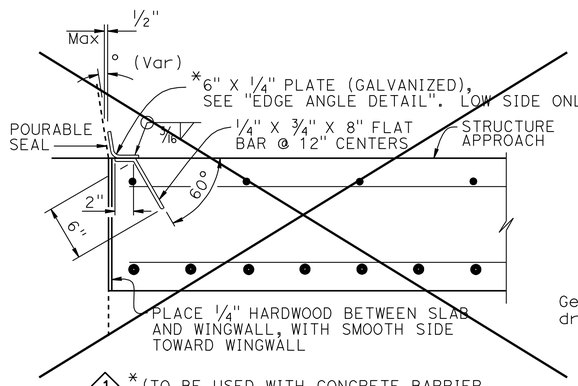


NOTE:
For details not shown, see "9" PAVING NOTCH"

12" PAVING NOTCH

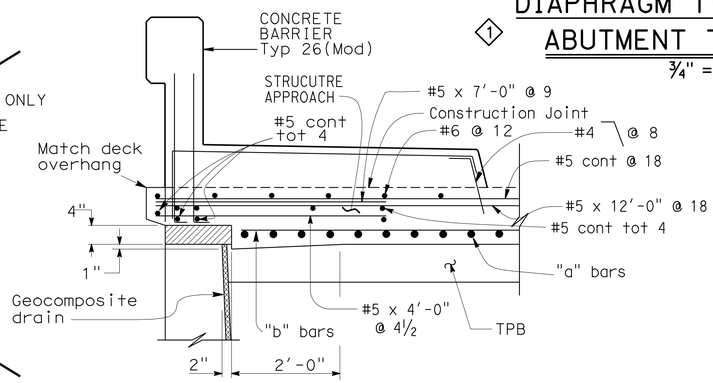


*(TO BE USED WITH CONCRETE BARRIER WITH VERTICAL FACE)



① *(TO BE USED WITH CONCRETE BARRIER WITH SLOPING FACE)

DETAIL B
1 1/2" = 1'-0"



Remove all polystyrene

② SECTION C-C
No Scale

① DIAPHRAGM TYPE ABUTMENT
ABUTMENT TIE DETAILS
3/4" = 1'-0"

NOTES:
1. For details not noted or shown, see Structure Plans. Adjust bar reinforcement to clear a sawcut for sealed joint, when required
2. For transverse contact joint with new PCC paving, refer to Standard Plan P10
3. Longitudinal construction joints, when permitted by the Engineer, shall be located on lane lines
4. End angle or plate at beginning of barrier transition, end of wingwall or end of structure approach as applicable
5. At the Contractor's option, approach slab transverse reinforcement may be placed parallel to paving notch. Spacing of transverse reinforcement is measured along ℄ roadway
6. For drainage details, see Structure Plans.

STANDARD DRAWING
FILE NO. xs3-160
APPROVAL DATE July 2011

① Deleted Detail
② Modified Detail

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

BRIDGE NO. 53-3076
POST MILE R 7.8

PARAMOUNT BLVD OC (REPLACE)
STRUCTURE APPROACH TYPE EQ(10)

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3622
PROJECT NUMBER & PHASE: 0712000254 1
CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
01/05/12	01/20/12			21	27

FILE => 53-3076-s-sap.dgn

USERNAME => s121614 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	106	114

Dawit Tadella Gebeyehu 01/20/12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

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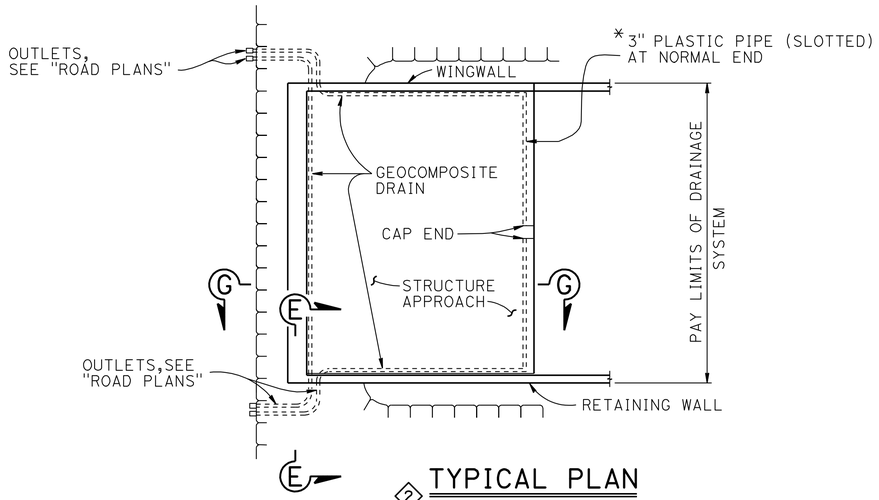
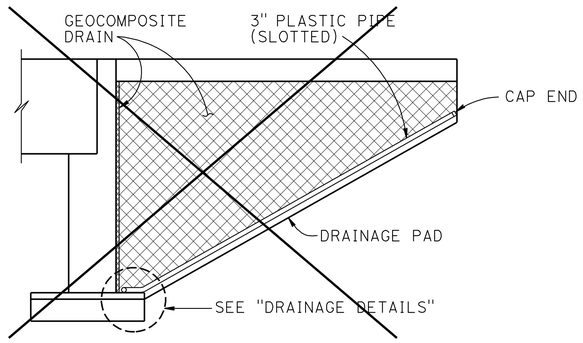
REGISTERED PROFESSIONAL ENGINEER — Dawit T Worku — No. C60711 — Exp.12-31-12 — CIVIL — STATE OF CALIFORNIA



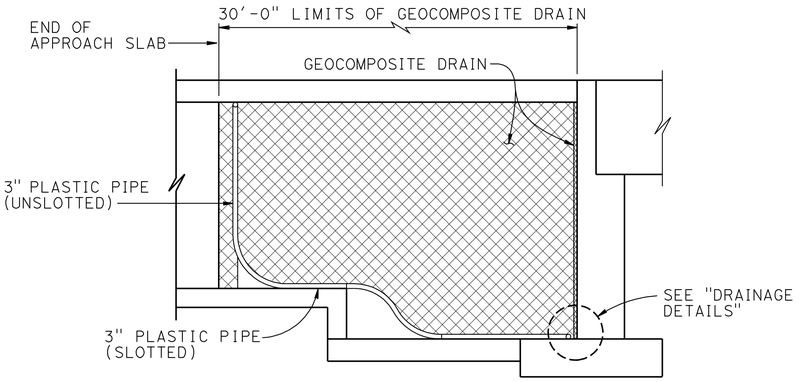
② TYPICAL PLAN
1" = 10'

* FOR PIPE LAYOUT AT STAGGERED END, SEE "DETAIL B"

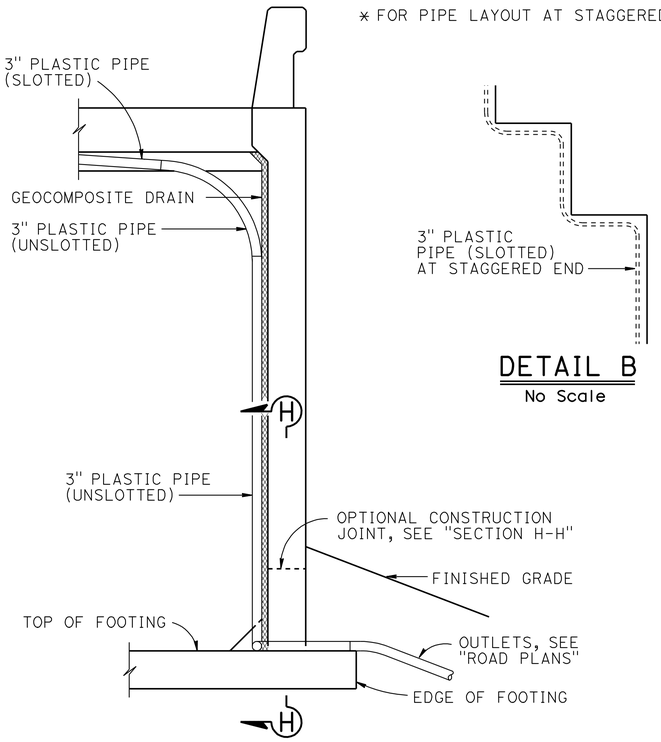


CANTILEVER WINGWALL

① SECTION F-F
1/4" = 1'-0"



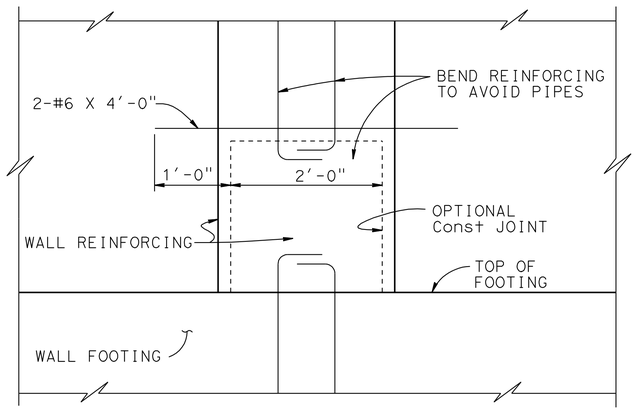
RETAINING WALL WINGWALL DRAINAGE DETAILS



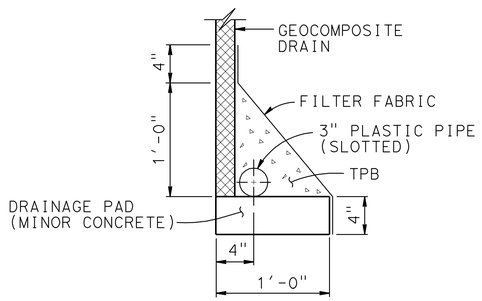
SECTION E-E
1/2" = 1'-0"

NOTE: Bends and junctions in 3" plastic pipe are 30" radius Min

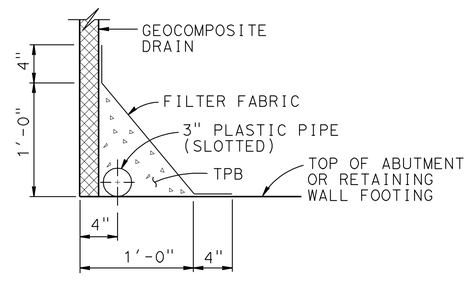
DETAIL B
No Scale



SECTION H-H
1" = 1'-0"



WITHOUT FOOTING



WITH FOOTING

DRAINAGE DETAILS
1 1/2" = 1'-0"

STANDARD DRAWING		① Deleted Detail	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES	BRIDGE NO. 53-3076	PARAMOUNT BLVD OC (REPLACE)
FILE NO. xs3-110	APPROVAL DATE July 2011	② Modified Detail			POST MILE R 7.8	STRUCTURE APPROACH DRAINAGE DETAILS

DS OSD 2147A (ENGLISH STANDARD DRAWING "XS" BORDER REV. (02-02-11)

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3622
PROJECT NUMBER & PHASE: 0712000254 1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

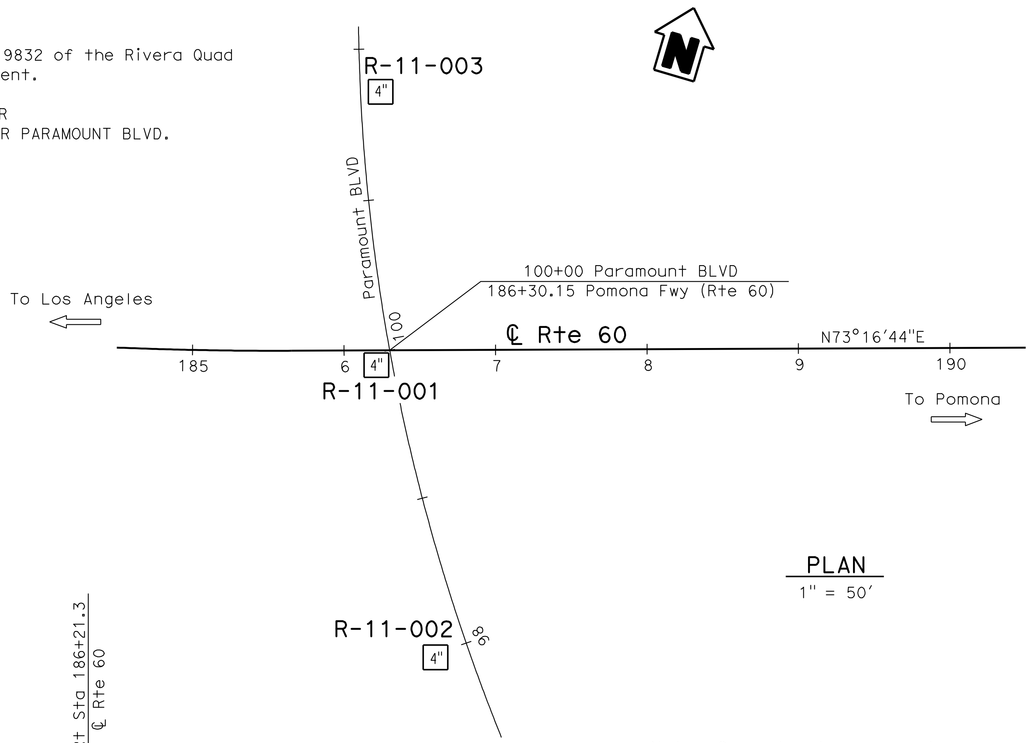
REVISION DATES				SHEET	OF
01/05/12	01/20/12			22	27

FILE => 53-3076-s-sap_ddt.dgn

USERNAME => s12614 DATE PLOTTED => 03-FEB-2012 TIME PLOTTED => 03:05

BENCH MARK

L.A. County Bench # 9832 of the Rivera Quad
NAVD88 2005 Adjustment.
Elev.: 304.104',
L&T IN S CB ARRPYO DR
1FT E/O BCR at SW COR PARAMOUNT BLVD.



PLAN
1" = 50'

Note: Ground water was not measured during field investigation.

9.83' Rt Sta 186+21.3
℄ Rte 60

R-11-001

352.5'

350	8 | 1.4	4"	CONCRETE PAVEMENT (12").
			SILTY SAND (SM); medium dense; greenish gray; moist; mostly from coarse to fine SAND; little fines; trace from coarse to fine subangular GRAVEL.
340	17 | 1.4		
	19 | 1.4		
330	5 | 1.4		CLAYEY SAND (SC); loose; olive gray; moist; mostly from coarse to fine SAND; little fines; trace coarse to fine subangular GRAVEL.
	14 | 1.4		SILTY SAND (SM); medium dense; light gray; moist; mostly from coarse to fine SAND; little fines; trace from coarse to fine subangular GRAVEL.
320	13 | 1.4		
	26 | 1.4		
310	60 | 1.4		-very dense; light brown.
	110 | 1.4		
300	97/11" | 1.4		-few from coarse to fine subangular GRAVEL.
	100/10" | 1.4		
290	87 | 1.4		-trace from coarse to fine subangular GRAVEL.
	77 | 1.4		
280	97/9" | 1.4		-few from coarse to fine subangular GRAVEL.
	97/10" | 1.4		
270	97/11" | 1.4		SILTY SAND with GRAVEL(SM); very dense; light brown; moist; mostly from coarse to fine SAND; little fines; little from coarse to fine subangular GRAVEL.
	50/4" | 1.4		
260	100/10" | 1.4		
	50/3" | 1.4		
250	50/3" | 1.4		
240	50/3" | 1.4		
230	50/5" | 1.4		
220	50/4" | 1.4		
210	50/3" | 1.4		
200			
190	50/4" | 1.4		
180			
170	50/3" | 1.4		

12-22-11
Boring terminated at Elev 171.0'
ERi = 93%

PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

186+00

187+00

This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

Sungro Cho
REGISTERED CIVIL ENGINEER
1-10-12
DATE

2-6-12
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER
Sungro Cho
No. C75151
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	60	R7.8	107	114

ENGINEERING SERVICES
MATERIALS AND GEOTECHNICAL SERVICES

FUNCTIONAL SUPERVISOR
NAME: D. Jong

DRAWN BY: F. Nguyen
CHECKED BY: S. Han

FIELD INVESTIGATION BY:
S. Cho

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES
STRUCTURE DESIGN
DESIGN BRANCH 20

UNIT: 3643
PROJECT NUMBER & PHASE: 0712000254 1
CONTRACT NO.: 07-293901

BRIDGE NO. 53-3076
POST MILE R 7.8

PARAMOUNT BLVD OC (REPLACE)
LOG OF TEST BORINGS 1 OF 5

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES	SHEET	OF
	23	27

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS
0 1 2 3

OSS CIVIL LOG OF TEST BORINGS SHEET

FILE => 53-3076-2-ltb01.dgn

USERNAME => s121614 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:05

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	108	114

Sungro Cho 1-10-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Sungro Cho — No. C75151 — Exp. 12-31-13 — CIVIL — STATE OF CALIFORNIA

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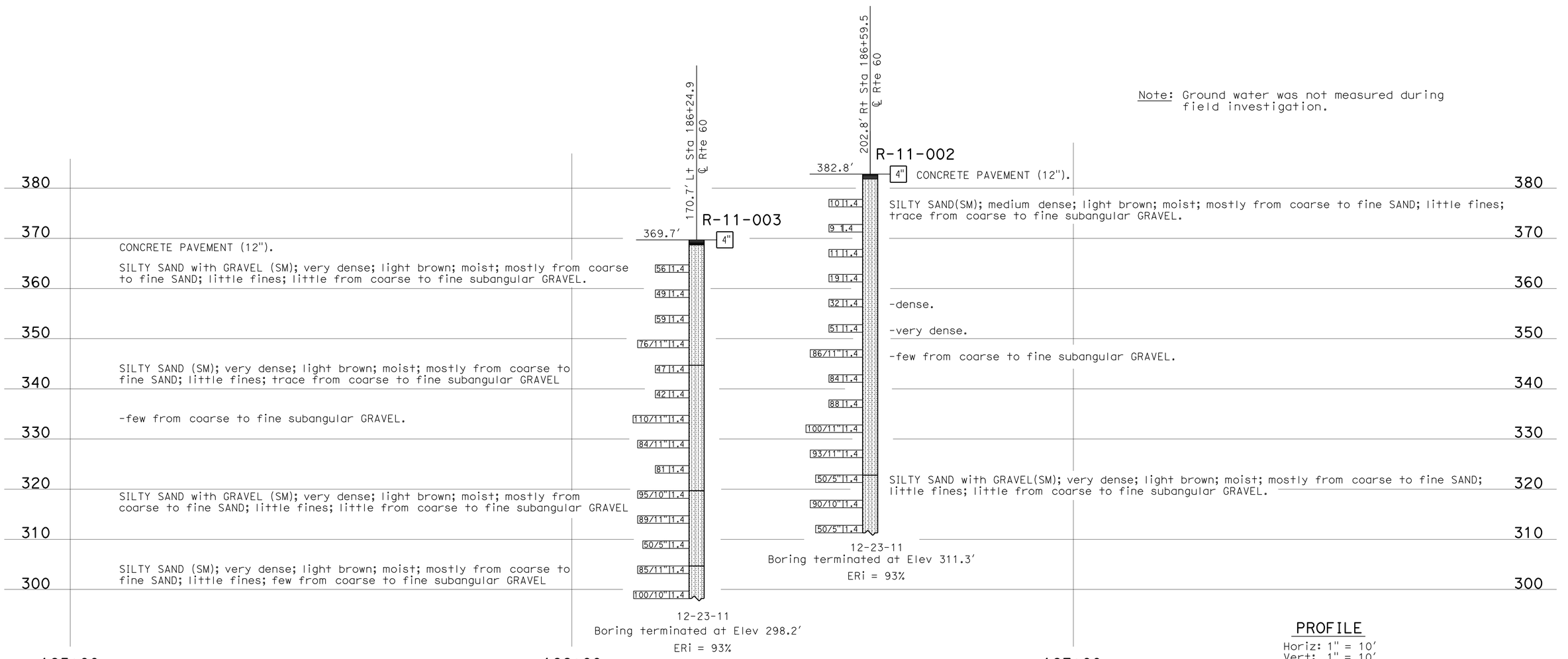
This LOTB sheet was prepared in accordance with the Caltrans Soil & Rock Logging, Classification, & Presentation Manual (2010 Edition).

FOR PLAN VIEW, SEE
"LOG OF TEST BORINGS 1 OF 5"

Note: Ground water was not measured during field investigation.



PROFILE
Horiz: 1" = 10'
Vert: 1" = 10'

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-3076	PARAMOUNT BLVD OC (REPLACE)
FUNCTIONAL SUPERVISOR NAME: D. Jang	DRAWN BY: F. Nguyen; CHECKED BY: S. Han	FIELD INVESTIGATION BY: S. Cho		POST MILE R 7.8	LOG OF TEST BORINGS 2 OF 5

OGS CIVIL LOG OF TEST BORINGS SHEET — ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0712000254 1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
01-05-12	01-06-12	01-09-12		24	27

FILE => 53-3076-z-1tb02.dgn

USERNAME => s121614 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:05

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	109	114

Sungro Cho 1-10-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Sungro Cho — No. C75151 — Exp. 12-31-13 — CIVIL — STATE OF CALIFORNIA

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CEMENTATION

Description	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

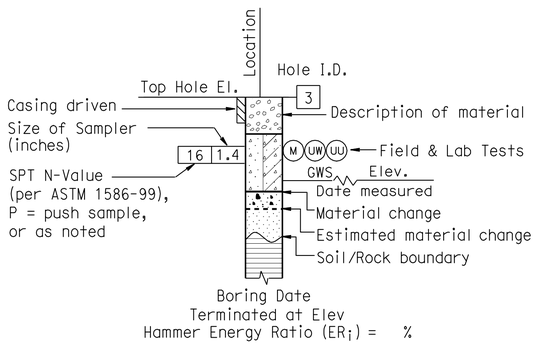
BOREHOLE IDENTIFICATION

Symbol	Hole Type	Description
Size	A	Auger Boring (hollow or solid stem bucket)
Size	R RW RC P	Rotary drilled boring (conventional) Rotary drilled with self-casing wire-line Rotary core with continuously-sampled, self-casing wire-line Rotary percussion boring (air)
Size	R RC	Rotary drilled diamond core Rotary drilled rock core
Size	HD HA	Hand driven (1-inch soil tube) Hand Auger
●	D	Dynamic Cone Penetration Boring
▲	CPT	Cone Penetration Test (ASTM D 5778)
⬚	O	Other (note on LOTB)

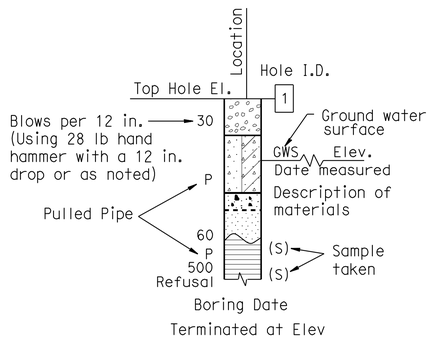
Note: Size in inches.

CONSISTENCY OF COHESIVE SOILS

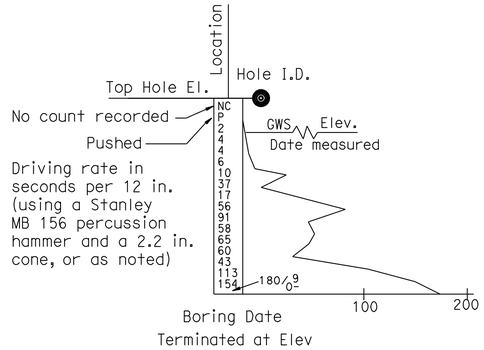
Description	Shear Strength (tsf)	Pocket Penetrometer Measurement, PP, (tsf)	Torvane Measurement, TV, (tsf)	Vane Shear Measurement, VS, (tsf)
Very Soft	Less than 0.12	Less than 0.25	Less than 0.12	Less than 0.12
Soft	0.12 - 0.25	0.25 - 0.5	0.12 - 0.25	0.12 - 0.25
Medium Stiff	0.25 - 0.5	0.5 - 1	0.25 - 0.5	0.25 - 0.5
Stiff	0.5 - 1	1 - 2	0.5 - 1	0.5 - 1
Very Stiff	1 - 2	2 - 4	1 - 2	1 - 2
Hard	Greater than 2	Greater than 4	Greater than 2	Greater than 2



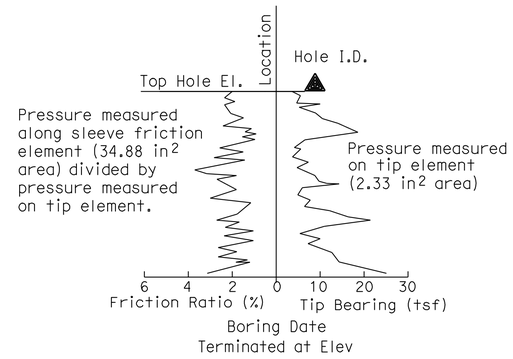
ROTARY BORING



HAND BORING



DYNAMIC CONE PENETRATION BORING



CONE PENETRATION TEST (CPT) BORING

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-3076 / POST MILE R 7.8	PARAMOUNT BLVD OC (REPLACE) LOG OF TEST BORINGS 3 OF 5
	PREPARED BY: F. Nguyen				

GS LOTB SOIL LEGEND

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0712000254 1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
01-05-12	01-06-12			25	27

FILE => 53-3076-z-ltb03.dgn

USERNAME => s121614 DATE PLOTTED => 03-FEB-2012 TIME PLOTTED => 09:05

REFERENCE: CALTRANS SOIL & ROCK LOGGING, CLASSIFICATION, AND PRESENTATION MANUAL (2010)

GROUP SYMBOLS AND NAMES

Graphic/Symbol	Group Names	Graphic/Symbol	Group Names
GW	Well-graded GRAVEL Well-graded GRAVEL with SAND	CL	Lean CLAY Lean CLAY with SAND Lean CLAY with GRAVEL SANDY lean CLAY SANDY lean CLAY with GRAVEL GRAVELLY lean CLAY GRAVELLY lean CLAY with SAND
GP	Poorly-graded GRAVEL Poorly-graded GRAVEL with SAND		
GW-GM	Well-graded GRAVEL with SILT Well-graded GRAVEL with SILT and SAND	CL-ML	SILTY CLAY SILTY CLAY with SAND SILTY CLAY with GRAVEL SANDY SILTY CLAY SANDY SILTY CLAY with GRAVEL GRAVELLY SILTY CLAY GRAVELLY SILTY CLAY with SAND
GW-GC	Well-graded GRAVEL with CLAY (or SILTY CLAY) Well-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
GP-GM	Poorly-graded GRAVEL with SILT Poorly-graded GRAVEL with SILT and SAND	ML	SILT SILT with SAND SILT with GRAVEL SANDY SILT SANDY SILT with GRAVEL GRAVELLY SILT GRAVELLY SILT with SAND
GP-GC	Poorly-graded GRAVEL with CLAY (or SILTY CLAY) Poorly-graded GRAVEL with CLAY and SAND (or SILTY CLAY and SAND)		
GM	SILTY GRAVEL SILTY GRAVEL with SAND	OL	ORGANIC lean CLAY ORGANIC lean CLAY with SAND ORGANIC lean CLAY with GRAVEL SANDY ORGANIC lean CLAY SANDY ORGANIC lean CLAY with GRAVEL GRAVELLY ORGANIC lean CLAY GRAVELLY ORGANIC lean CLAY with SAND
GC	CLAYEY GRAVEL CLAYEY GRAVEL with SAND		
GC-GM	SILTY, CLAYEY GRAVEL SILTY, CLAYEY GRAVEL with SAND	OL	ORGANIC SILT ORGANIC SILT with SAND ORGANIC SILT with GRAVEL SANDY ORGANIC SILT SANDY ORGANIC SILT with GRAVEL GRAVELLY ORGANIC SILT GRAVELLY ORGANIC SILT with SAND
SW	Well-graded SAND Well-graded SAND with GRAVEL		
SP	Poorly-graded SAND Poorly-graded SAND with GRAVEL	CH	Fat CLAY Fat CLAY with SAND Fat CLAY with GRAVEL SANDY fat CLAY SANDY fat CLAY with GRAVEL GRAVELLY fat CLAY GRAVELLY fat CLAY with SAND
SW-SM	Well-graded SAND with SILT Well-graded SAND with SILT and GRAVEL		
SW-SC	Well-graded SAND with CLAY (or SILTY CLAY) Well-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)	MH	Elastic SILT Elastic SILT with SAND Elastic SILT with GRAVEL SANDY elastic SILT SANDY elastic SILT with GRAVEL GRAVELLY elastic SILT GRAVELLY elastic SILT with SAND
SP-SM	Poorly-graded SAND with SILT Poorly-graded SAND with SILT and GRAVEL		
SP-SC	Poorly-graded SAND with CLAY (or SILTY CLAY) Poorly-graded SAND with CLAY and GRAVEL (or SILTY CLAY and GRAVEL)	OH	ORGANIC fat CLAY ORGANIC fat CLAY with SAND ORGANIC fat CLAY with GRAVEL SANDY ORGANIC fat CLAY SANDY ORGANIC fat CLAY with GRAVEL GRAVELLY ORGANIC fat CLAY GRAVELLY ORGANIC fat CLAY with SAND
SM	SILTY SAND SILTY SAND with GRAVEL		
SC	CLAYEY SAND CLAYEY SAND with GRAVEL	OH	ORGANIC elastic SILT ORGANIC elastic SILT with SAND ORGANIC elastic SILT with GRAVEL SANDY ORGANIC elastic SILT SANDY ORGANIC elastic SILT with GRAVEL GRAVELLY ORGANIC elastic SILT GRAVELLY ORGANIC elastic SILT with SAND
SC-SM	SILTY, CLAYEY SAND SILTY, CLAYEY SAND with GRAVEL		
PT	PEAT	OL/OH	ORGANIC SOIL ORGANIC SOIL with SAND ORGANIC SOIL with GRAVEL SANDY ORGANIC SOIL SANDY ORGANIC SOIL with GRAVEL GRAVELLY ORGANIC SOIL GRAVELLY ORGANIC SOIL with SAND
	COBBLES COBBLES and BOULDERS BOULDERS		

FIELD AND LABORATORY TESTING

- (C) Consolidation (ASTM D 2435)
- (CL) Collapse Potential (ASTM D 5333)
- (CP) Compaction Curve (CTM 216)
- (CR) Corrosivity Testing (CTM 643, CTM 422, CTM 417)
- (CU) Consolidated Undrained Triaxial (ASTM D 4767)
- (DS) Direct Shear (ASTM D 3080)
- (EI) Expansion Index (ASTM D 4829)
- (M) Moisture Content (ASTM D 2216)
- (OC) Organic Content-% (ASTM D 2974)
- (P) Permeability (CTM 220)
- (PA) Particle Size Analysis (ASTM D 422)
- (PI) Plasticity Index (AASHTO T 90) Liquid Limit (AASHTO T 89)
- (PL) Point Load Index (ASTM D 5731)
- (PM) Pressure Meter
- (R) R-Value (CTM 301)
- (SE) Sand Equivalent (CTM 217)
- (SG) Specific Gravity (AASHTO T 100)
- (SL) Shrinkage Limit (ASTM D 427)
- (SW) Swell Potential (ASTM D 4546)
- (UC) Unconfined Compression-Soil (ASTM D 2166) Unconfined Compression-Rock (ASTM D 2938)
- (UU) Unconsolidated Undrained Triaxial (ASTM D 2850)
- (UW) Unit Weight (ASTM D 4767)

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
07	LA	60	R7.8	110	114

Sungro Cho 1-10-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — Sungro Cho No. C75151 Exp. 12-31-13 CIVIL — STATE OF CALIFORNIA

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APPARENT DENSITY OF COHESIONLESS SOILS

Description	SPT N_{60} (Blows / 12 in.)
Very Loose	0 - 5
Loose	5 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

MOISTURE

Description	Criteria
Dry	No discernable moisture
Moist	Moisture present, but no free water
Wet	Visible free water

PERCENT OR PROPORTION OF SOILS

Description	Criteria
Trace	Particles are present but estimated to be less than 5%
Few	5% - 10%
Little	15% - 25%
Some	30% - 45%
Mostly	50% - 100%

PARTICLE SIZE

Description		Size (in.)
Boulder		Greater than 12
Cobble		3 - 12
Gravel	Coarse	3/4 - 3
	Fine	1/5 - 3/4
Sand	Coarse	1/16 - 1/5
	Medium	1/64 - 1/16
	Fine	1/300 - 1/64
Silt and Clay		Less than 1/300

ENGINEERING SERVICES	MATERIALS AND GEOTECHNICAL SERVICES	STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF ENGINEERING SERVICES STRUCTURE DESIGN DESIGN BRANCH 20	BRIDGE NO. 53-3076 / POST MILE R 7.8	PARAMOUNT BLVD OC (REPLACE) LOG OF TEST BORINGS 4 OF 5
	PREPARED BY: F. Nguyen				

GS LOTB SOIL LEGEND

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3643
PROJECT NUMBER & PHASE: 0712000254 1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
01-05-12	01-06-12			26	27

FILE => 53-3076-z-ltb04.dgn

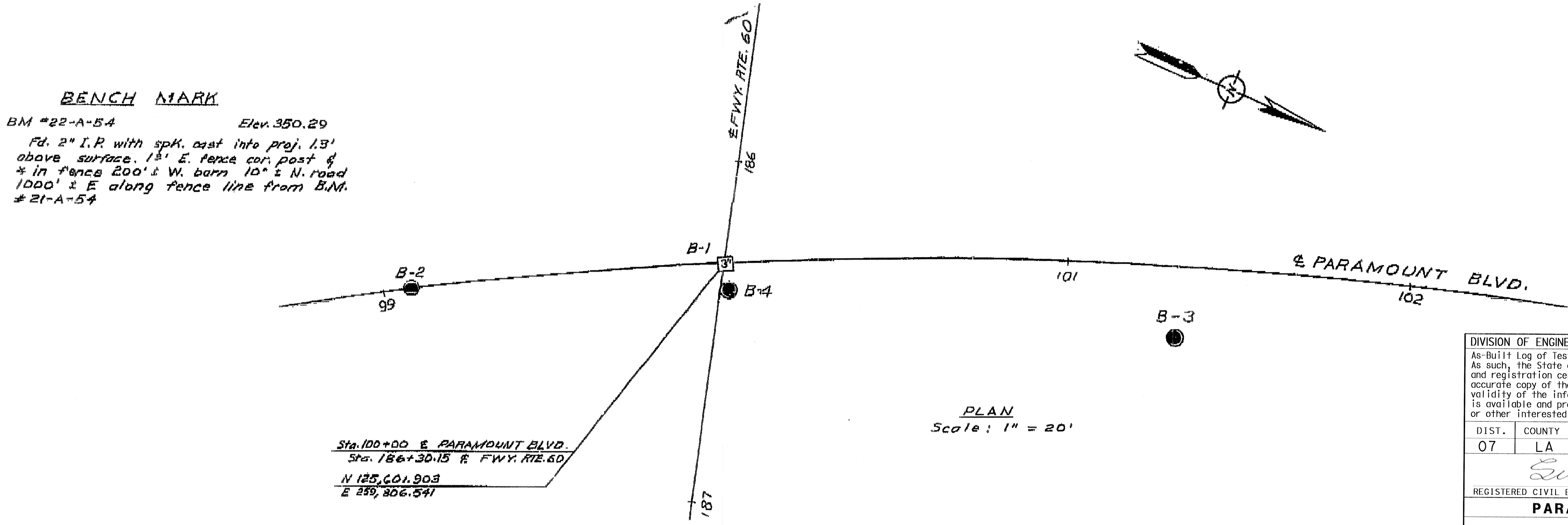
USERNAME => s121614 DATE PLOTTED => 09-FEB-2012 TIME PLOTTED => 09:06

FED. ROAD DIV. No.	STATE	F. A. PROJECT No.	SHEET No.	TOTAL SHEETS
7	CALIF.			

DIST.	COUNTY	ROUTE	SECTION	SHEET No.	TOTAL SHEETS
07	LA	60	R7.9	50	50

BRIDGE ENGINEER — CIVIL ENGINEER—LICENSE

DATE APPROVED March 6, 1967



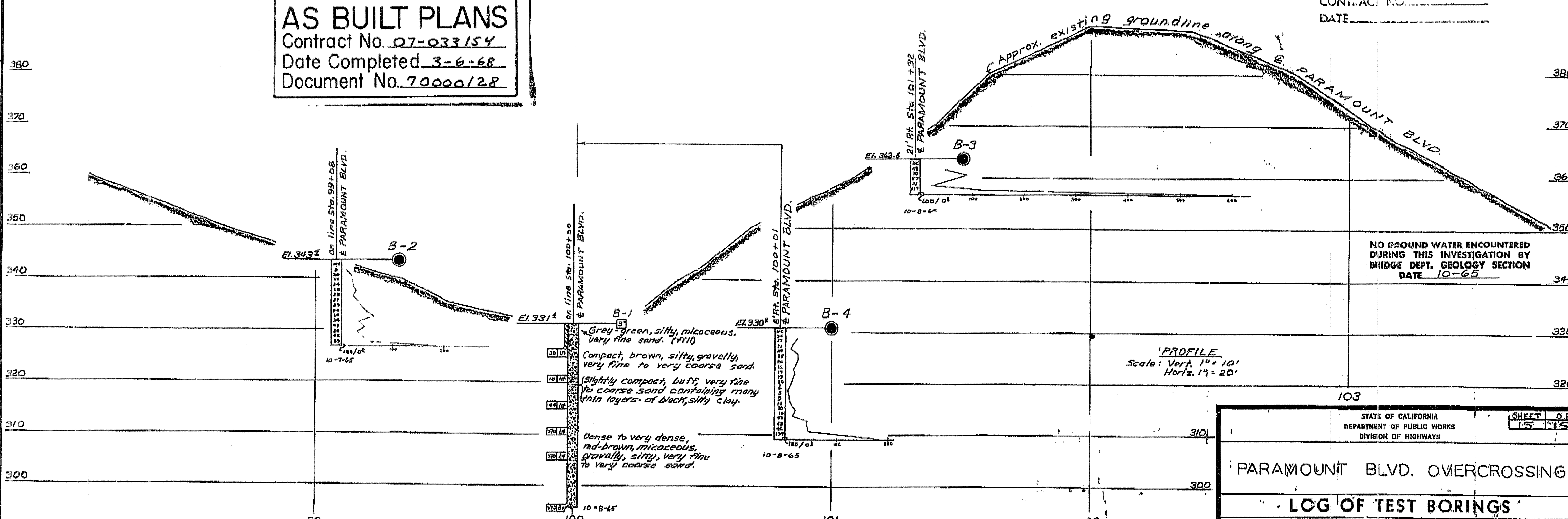
DIVISION OF ENGINEERING SERVICES - MATERIALS AND GEOTECHNICAL SERVICES					
As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date confirm that this is a true and accurate copy of the original document. It does not attest to the accuracy or validity of the information contained in the original document. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.					
DIST.	COUNTY	ROUTE	POST MILE-TOTAL PROJECT	Sheet No.	Total Sheets
07	LA	60	R7.8	111	114
REGISTERED CIVIL ENGINEER			DATE 1/10/2012		
PARAMOUNT BLVD OC (REPLACE)					
LOG OF TEST BORINGS 5 OF 5					
UNIT: 3643 PROJ. No. & PHASE: 07120002423			CONTRACT No. 07-3X7003	BRIDGE No. 53-3076	
AS-BUILT VERT DATUM:	CONVERSION:			Sheet	of
NOTE: A COPY OF THIS LOG OF TEST BORINGS IS AVAILABLE AT OFFICE OF STRUCTURE MAINTENANCE AND INVESTIGATIONS, SACRAMENTO, CALIFORNIA				27	27

REGISTERED PROFESSIONAL ENGINEER
Sungro Cho
No. C75151
Exp. 12-31-13
CIVIL
STATE OF CALIFORNIA

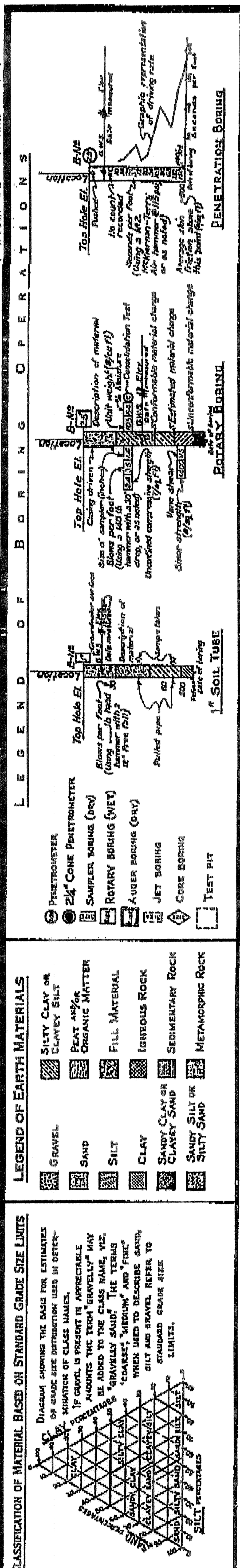
To accompany plans dated 2-6-12

AS BUILT
CORRECTIONS
CONTRACT NO.
DATE

AS BUILT PLANS
Contract No. 07-033154
Date Completed 3-6-68
Document No. 70000128



NO GROUND WATER ENCOUNTERED DURING THIS INVESTIGATION BY BRIDGE DEPT. GEOLOGY SECTION DATE 10-65



NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.

DRAWN	Mo Boyle 10-5-65
CHECKED	M. Takizawa 10-8-65

Approval Recommended by ________ Engineering Geologist

BRIDGE DEPARTMENT
ENGINEERING GEOLOGY SECTION

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

SHEET 15 OF 15

PARAMOUNT BLVD. OVERCROSSING

LOG OF TEST BORINGS

SCALE As Noted | BRIDGE 53-1910 | FILE | DRAWING 531910-14

Charge: 07212
W.A.: 033151

Disregard prints bearing earlier numbers → PREL. DRAWING No. PR-

510

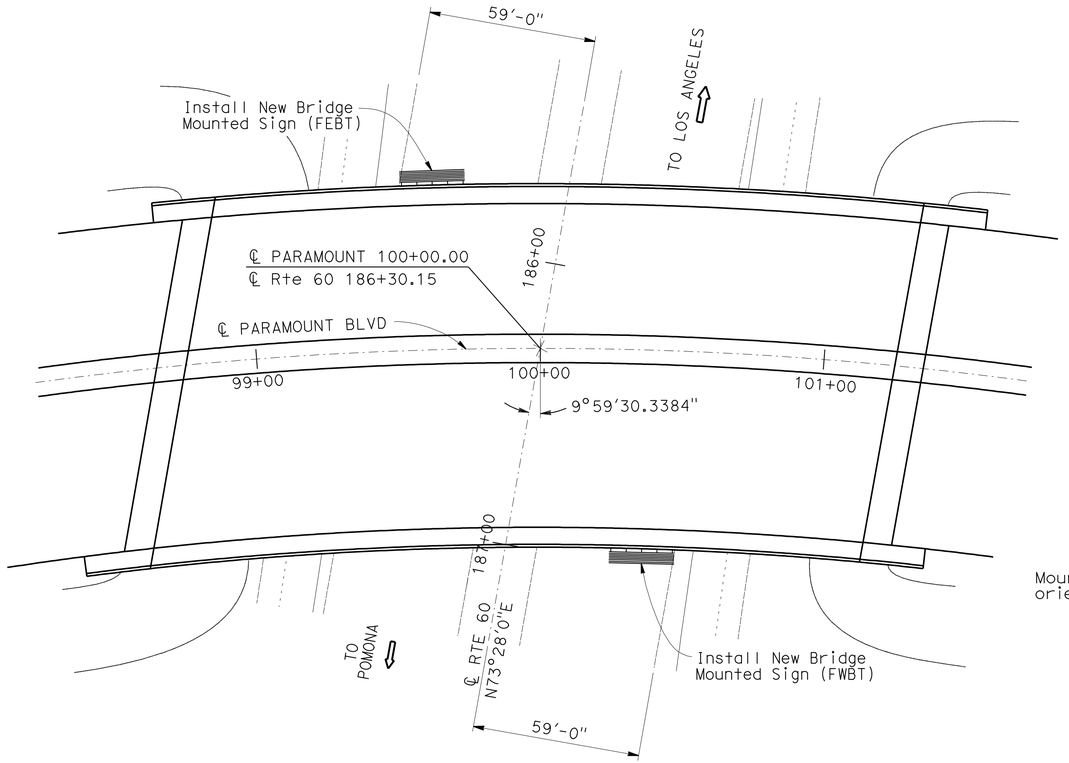
DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	60	R7.8	112	114

REGISTERED CIVIL ENGINEER — 1-31-12 DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER — ANDREW BUI — No. C63560 — Exp. 9/30/12 — CIVIL — STATE OF CALIFORNIA

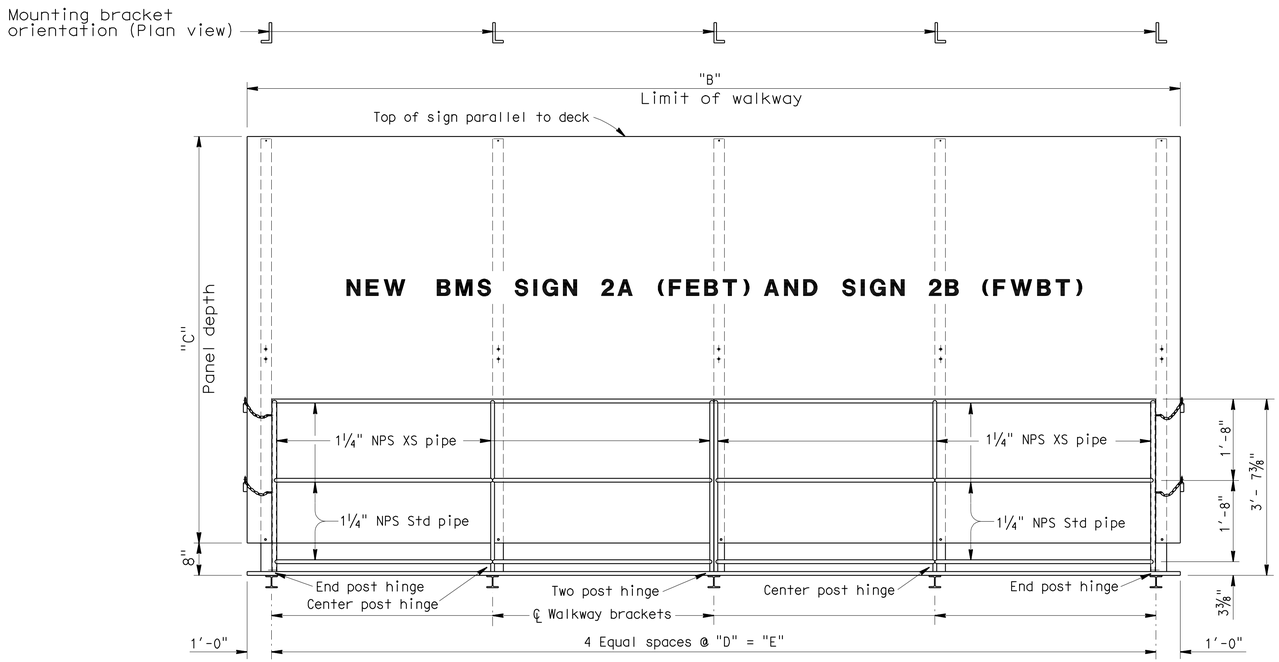
The State of California or its officers or agents shall not be responsible for the accuracy or completeness of scanned copies of this plan sheet.



LOCATION PLAN

SIGN TABLE

SIGN	"B"	"C"	"D"	"E"
2A (FEBT)	22'-0"	9'-2"	5'-0"	20'-0"
2B (FWBT)	20'-0"	10'-0"	4'-6"	18'-0"



NEW BMS SIGN 2A (FEBT) AND SIGN 2B (FWBT)

FRONT VIEW

NOTES:

1. For details not shown see "STANDARD PLANS MAY 2006".
2. Unless otherwise shown, all steel shall be galvanized after fabrication.
3. Min size fillet weld is ¼" or thickness of thinner part unless noted otherwise.
4. Contractor to provide anchor bolt layout before anchor bolts are placed.
5. All high strength (HS) bolts shall be snug tight.
6. For sign location, see "SIGN PLANS".
7. Exterior mounting brackets to face outward to accommadate walkway chain angle.

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

No Scale

BRANCH CHIEF: JEFF WOODY

	BY	CHECKED
DESIGN	A GUTIERREZ	A BUI
DETAILS	D W JUSTICE Jr	A GUTIERREZ
QUANTITIES	A GUTIERREZ	A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 53-3076
POST MILE R7.8

PARAMOUNT BLVD OC (REPLACE)
SIGN LOCATION PLAN / FRONT VIEW

SDS-1

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0712000254-1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
1-16-12	1-31-12			1	3

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DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	60	R7.8	113	114

1-31-12
REGISTERED CIVIL ENGINEER DATE

2-6-12
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
ANDREW BUI
No. C63560
Exp. 9/30/12
CIVIL
STATE OF CALIFORNIA

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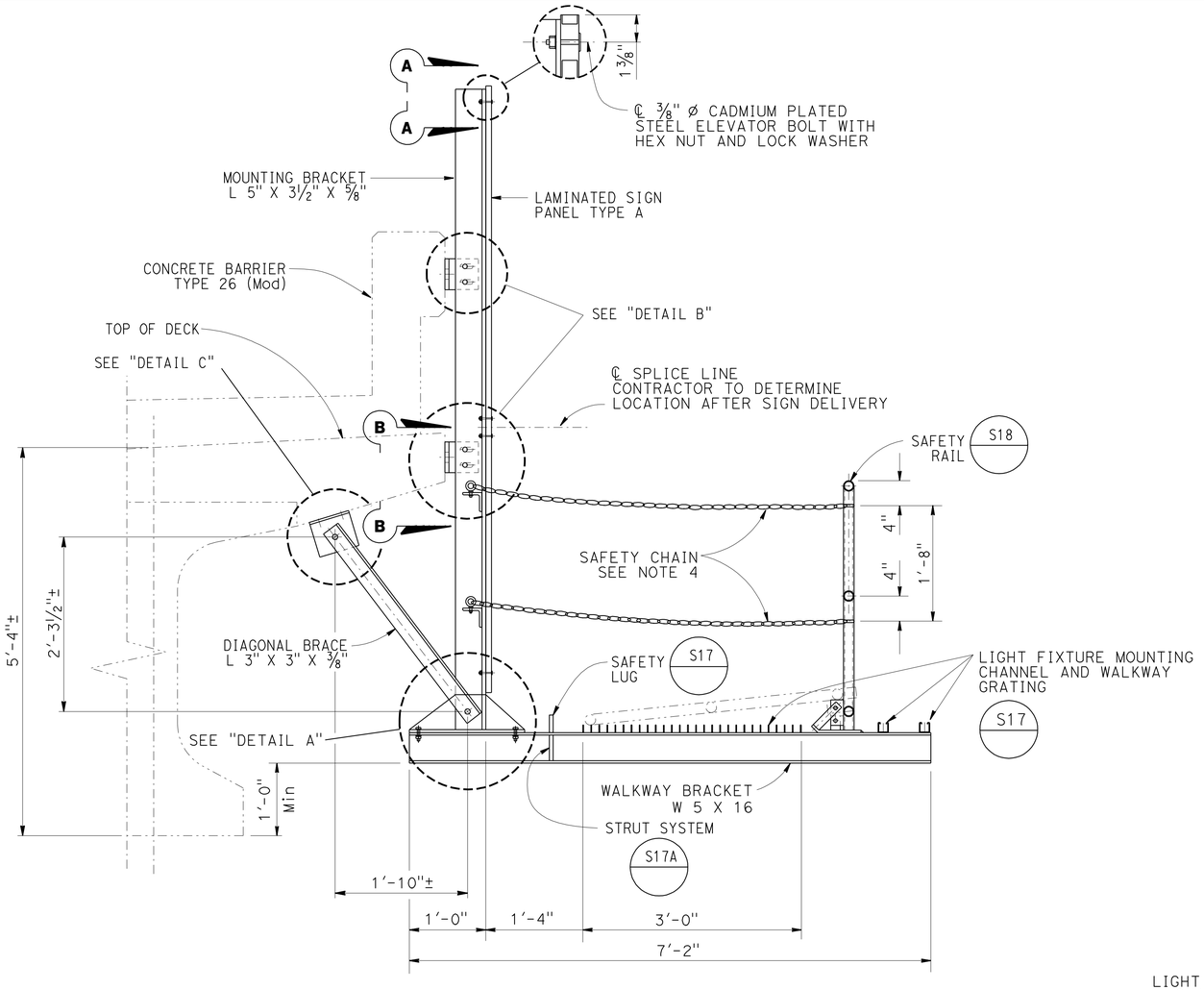
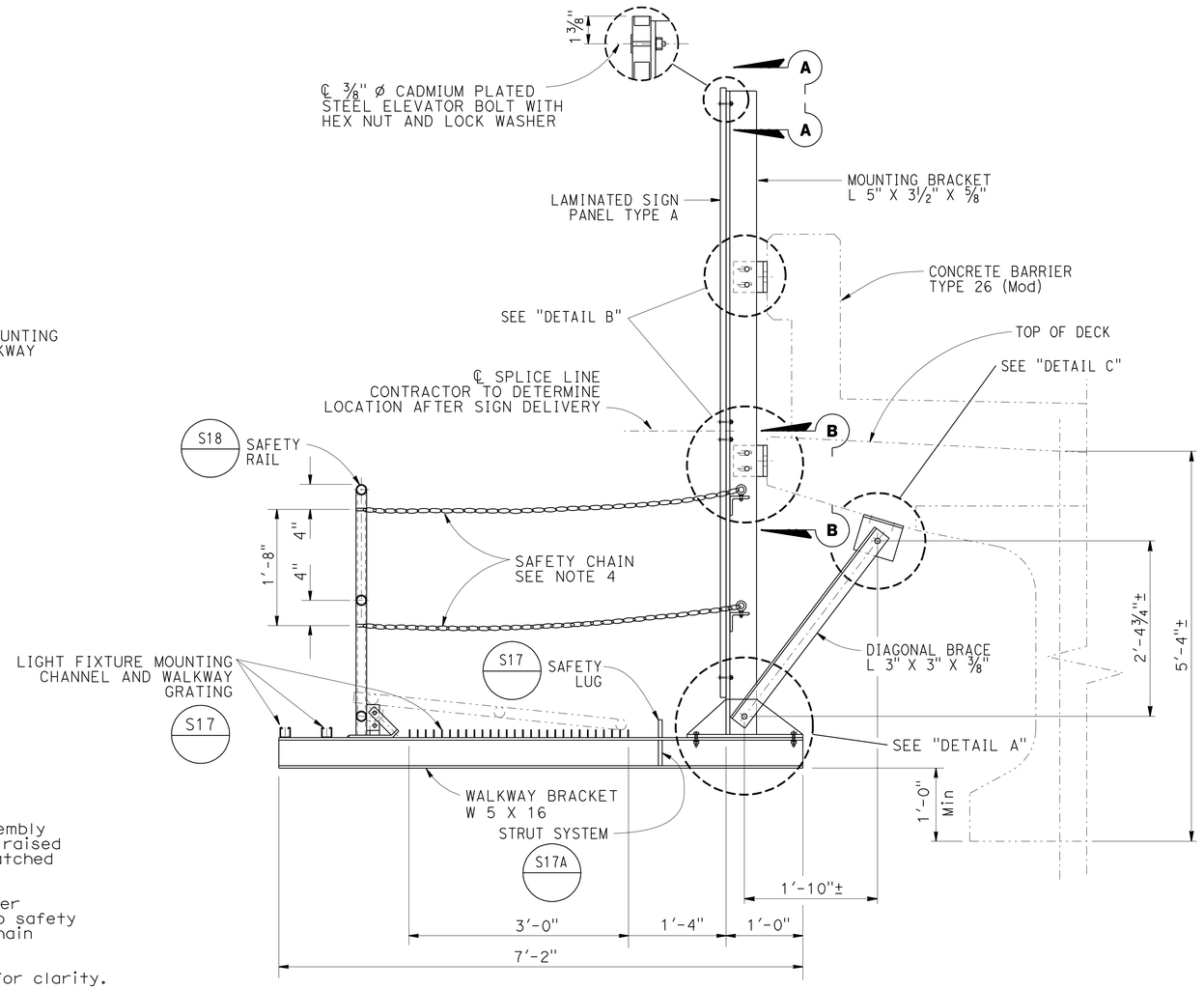


TYPICAL SECTION (FWBT)



TYPICAL SECTION (FEBT)

NOTES:

1. For details not shown, see " STANDARD PLANS MAY 2006".
2. Special care shall be taken to insure that the complete hinge and latch assembly will hold the safety railing in a steady manner, free of wobble while in the raised position. Max allowable displacement from vertical at top of railing when latched shall be 1".
3. Safety chain shall be 1/4" galvanized steel coil chain,approximately 12 links per foot. Length shall be min which allows lock-up of safety railing. Min of two safety chains at each end of safety railing. Material shall be Grade 43 high test chain ASTM A413.
4. Safety chain is located at the ends of the walkway only but is shown here for clarity.
5. All high strength (HS) bolts shall be snug tightened.
6. For "DETAIL A", "DETAIL B", "DETAIL C", "SECTION A-A", and "SECTION B-B" see "BRIDGE MOUNTED SIGN TYPICAL DETAILS" Sheet.

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

STANDARD PLAN SHEET NO.
DETAIL NO.

NO SCALE

BRANCH CHIEF JEFF WOODY

	BY	CHECKED
DESIGN	A GUTIERREZ	A BUI
DETAILS	D W JUSTICE Jr	A GUTIERREZ
QUANTITIES	A GUTIERREZ	A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 53-3076
POST MILE R7.8

PARAMOUNT BLVD OC (REPLACE)
TYPICAL SECTION

SDS-2

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0712000254-1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES				SHEET	OF
1-16-12	1-31-12			2	3

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USERNAME => s12614 DATE PLOTTED => 08-FEB-2012 TIME PLOTTED => 08:39

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No	TOTAL SHEETS
07	LA	60	R7.8	114	114

REGISTERED CIVIL ENGINEER — 1-31-12 DATE

ANDREW BUI No. C63560 Exp. 9/30/12 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

2-6-12
PLANS APPROVAL DATE

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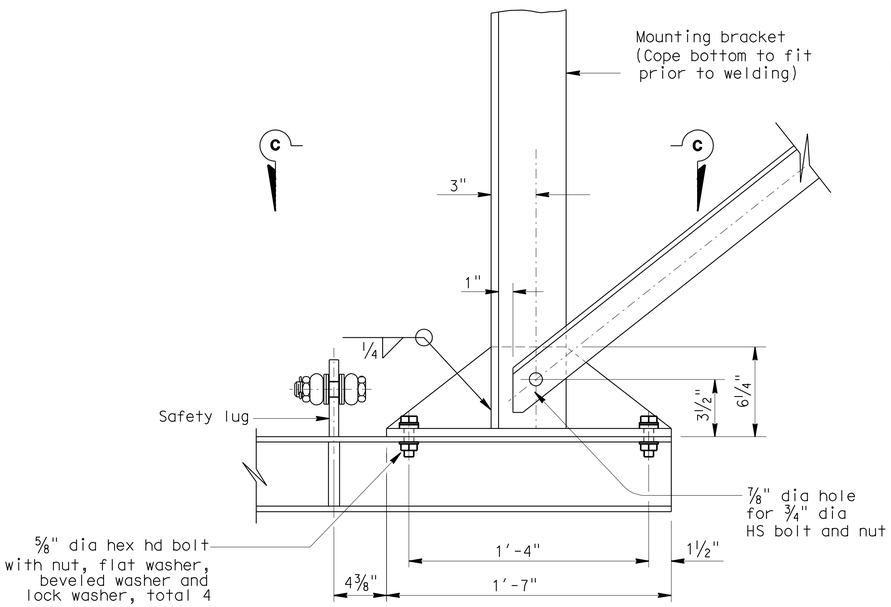
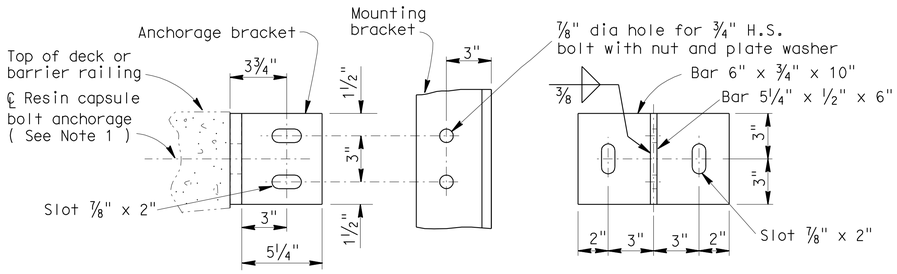
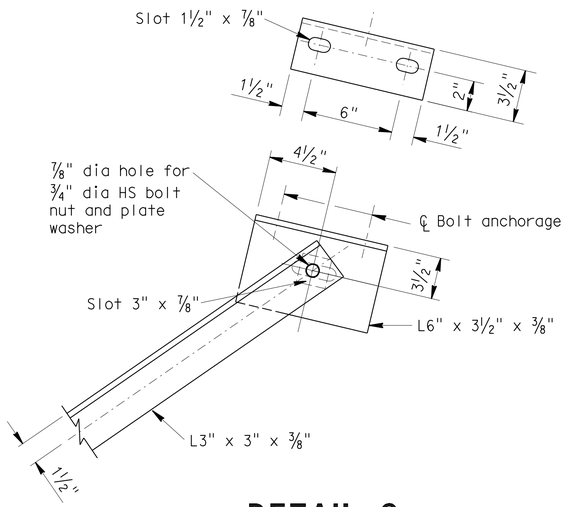


DETAIL A



DETAIL B



DETAIL C

NOTES:

1. Resin capsule bolts shall not interfere with existing railing anchorages and/or soundwall reinforcements
2. Resin capsule anchorage is subject to approval of engineer. Installation procedure shall comply with manufacturer's instructions.
3. Unless otherwise shown all steel shall be galvanized after fabrication.
4. Resin capsule bolt anchors shall be installed in sound concrete free of cracks or delamination.

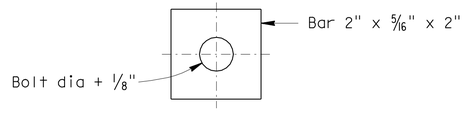
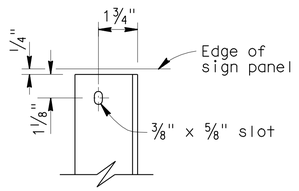
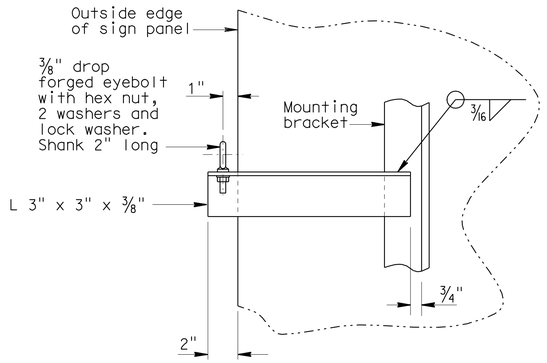


PLATE WASHER

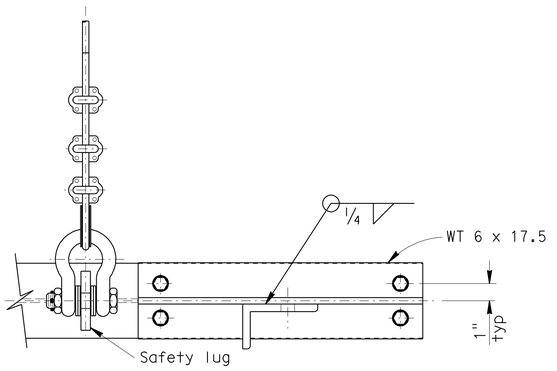
FOR ALL SLOTTED HOLES



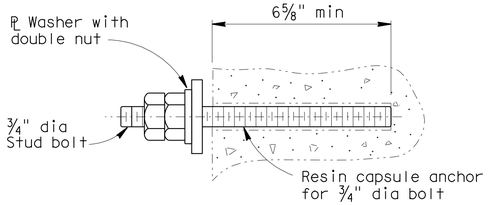
SECTION A-A



SECTION B-B



SECTION C-C



RESIN CAPSULE BOLT ANCHORAGE

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

No Scale

BRANCH CHIEF: JEFF WOODY

	BY	CHECKED
DESIGN	A GUTIERREZ	A BUI
DETAILS	D W JUSTICE Jr	A GUTIERREZ
QUANTITIES	A GUTIERREZ	A BUI

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

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

BRIDGE NO. 53-3076
POST MILE R7.8

PARAMOUNT BLVD OC (REPLACE)
BRIDGE MOUNTED SIGN - TYPICAL DETAILS

SDS-3

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

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS 0 1 2 3

UNIT: 3619
PROJECT NUMBER & PHASE: 0712000254-1 CONTRACT NO.: 07-293901

DISREGARD PRINTS BEARING EARLIER REVISION DATES →

REVISION DATES				SHEET	OF
1-16-12	1-31-12			3	3

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