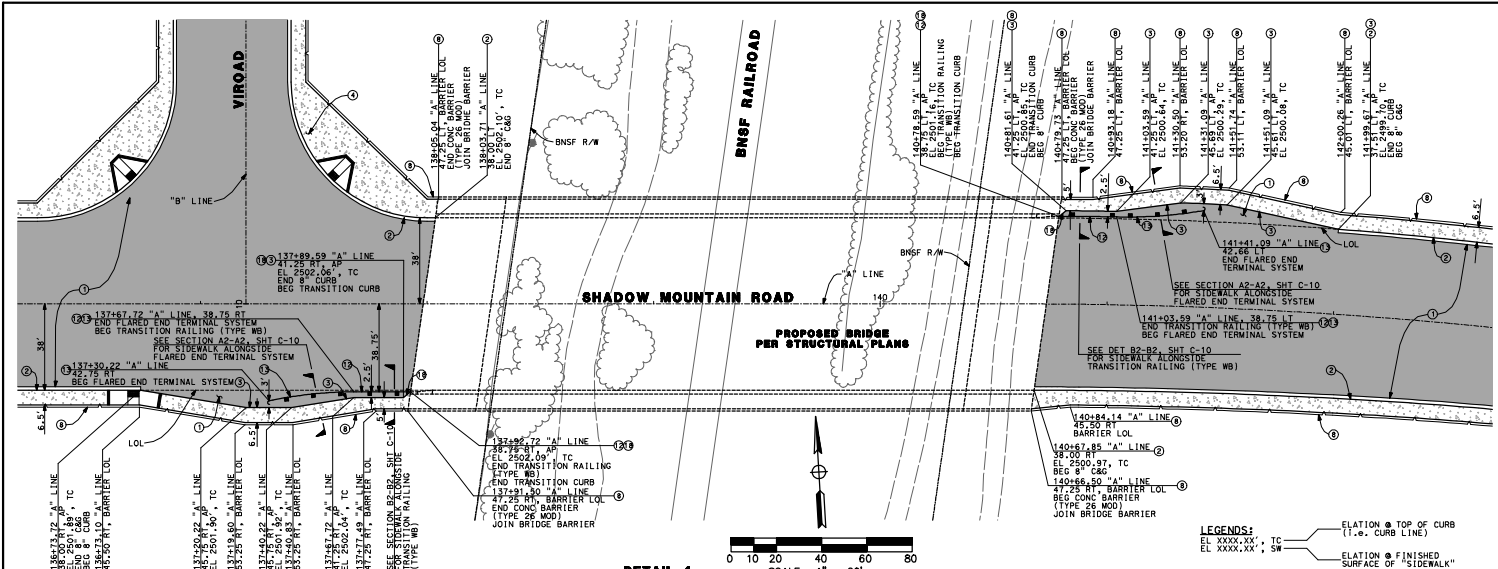
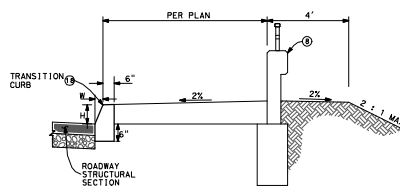




**DETAIL 4
BRIDGE BARRIER
END TREATMENT
(3 OF 3)**



NOTE:
AT THE END WHERE THE TRANSITION CURB JOINS 8" CURB,
H=8" & W=22" H & W VALUES SMOOTHLY TRANSLATE TO
MATCH BRIDGE BARRIER (TYPE 742 MOD) AT THE OTHER END.

**SECTION C2-C2 (LEFT)
NO SCALE**

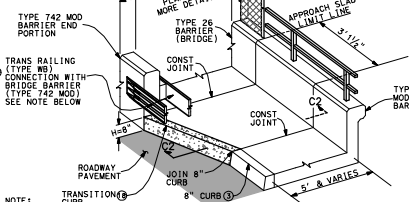
LEGENDS:
EL XXXX.XX', TC — ELEVATION @ TOP OF CURB
EL XXXX.XX', SW — ELEVATION @ FINISHED SURFACE OF "SIDEWALK"

CONSTRUCTION NOTES:

- 1 CONST XX' HMA OVER XX' AB (CLASS 2)
- 2 CONST 8" PCC CURB & GUTTER PER COUNTY STD NO. 115
- 3 CONST 8" PCC CURB ONLY TYPE A1 PER CALTRANS STD PLAN NO. 487A
- 4 CONST 4" PCC SIDEWALK PER COUNTY STD NO. 109 (WIDTH PER PLAN)
- 5 CONST DRY APPROACH PER COUNTY STD NO. 128
- 6 CONST CURB RAMP PER COUNTY STD NO. 110
- 7 CONST CROSS GUTTER PER COUNTY STD NO. 119
- 8 CONST CONC BARRIER (TYPE 26 MOD) PER DET 6, SHT C-12
- 9 CONST CONC BARRIER (TYPE 26 MOD) END TRANSITION PER DET 6, SHT C-12
- 10 CONST 8" HMA DIKE PER COUNTY STD NO. 117
- 11 CONST XX' AB ONLY (CLASS 2)
- 12 CONST METAL BEAM GUARD RAILING TRANSITION RAILING (TYPE WB) PER CALTRANS STD PLAN NO. 477J4
- 13 CONST FLARED END METAL BEAM GUARD RAILING TERMINAL SYSTEM PER DETAIL ON SHT C-13
- 14 CONST DRY APPROACH PER COUNTY STD NO. 128A
- 15 CONST ROCK SLOPE PROTECTION PER DET 7, SHT C-12
- 16 SAWCUT EXISTING PAVEMENT
- 17 XX' MIN. COLD PLANE EXIST PAVEMENT AND OVERLAY WITH XX' MIN. HMA FOR SMOOTH TRANSITION
- 18 CONST TRANSITION CURB PER DET 3 & 5, SHT C-10 & C-11
- 19 CONST XX' HMA OVER XX' AB (CLASS 2)

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

**DETAIL 5
TRANSITION CURB
(APPLY TO END TREATMENT
DETAILS 4 & 4A)
NO SCALE**



NOTE:
REFER TO 2010 CALTRANS STD PLAN 811-S7 FOR
(TYPE 742 MOD) BARRIER END PORTION DETAILS.
FOR ALL CONNECTION DETAILS NOT SHOWN, REFER
TO 2010 CALTRANS STD PLAN 477J2.

DATE	REVISIONS

DATE	REVISIONS



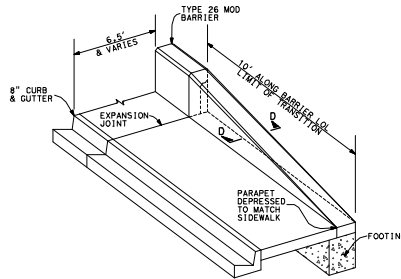
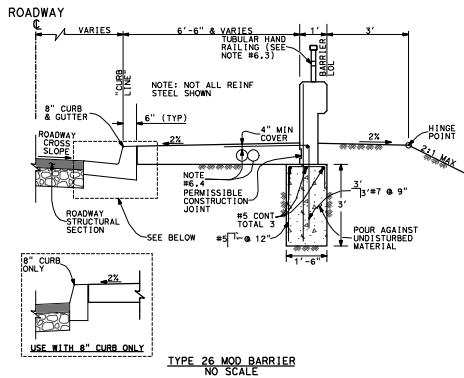
DATE	CHANGES

FIELD CHANGES

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(714) 567-2501

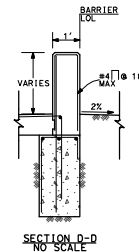
COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	DATE
XXXX XXXX P.E. DEPUTY DIRECTOR	
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	

SHADOW MOUNTAIN ROAD CONSTRUCTION DETAILS BRIDGE BARRIER END TREATMENTS				
J.L. REF.	N.D. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXXX	C-11	43	X



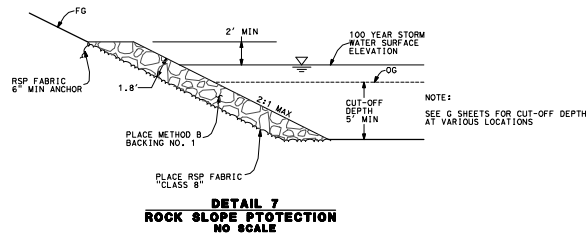
BARRIER END TRANSITION
NO SCALE

DETAIL 8
CONCRETE BARRIER (TYPE 26 MOD)
& END TRANSITION
(FOR ROADWAY ONLY)
NO SCALE



NOTES:

- 6.1 ALL CONSTRUCTION DETAILS NOT SHOWN SHALL COMPLY WITH 2010 CALTRANS STD PLAN NO. 811-54.
- 6.2 EXPANSION JOINT CONSTRUCTED AT 10' INTERVAL (MATCH CURB & GUTTER). SEE 2010 CALTRANS STD PLAN NO. 86-21.
- 6.3 TUBULAR HAND RAILING SHALL BE CONSTRUCTED BY FOLLOWING 2010 CALTRANS STANDARD NO. 811-51.
- 6.4 A MIN OF TWO-6" ROUND OPENINGS ARE REQUIRED FOR FUTURE UTILITIES. OPENINGS ARE TO BE SEALED AT ENDS AND EXTENDED 8" MIN PAST END OF SIDEWALK IF NOT USED. DUCT FORMS ARE TO BE TIED DOWN. INSTALL CONDUIT EXPANSION FITTING OR EXPANSION-DEFLECTION FITTING PER STD PLAN E5-98 AT BRIDGE JOINTS.



REVISIONS	DATE	BY	APP'D

REVISIONS	DATE	BY	APP'D



MARK	CHANGES	RESIDENT ENGINEER	DATE

FIELD CHANGES

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COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	DATE
XXXX XXXX P.E. DEPUTY DIRECTOR	
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	

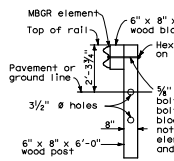
ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

SHADOW MOUNTAIN ROAD
CONSTRUCTION DETAILS
CONCRETE BARRIER (TYPE 26 MOD)
ROCK SLOPE PROTECTION

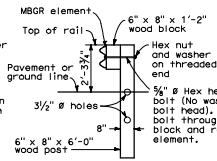
J.L. REF.	R.D. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	C-12	44	X

TABLE A POST OFFSET DIMENSIONS		
Post No.	3'-0" System End Offset	3'-6" System End Offset
1	36"	42"
2	22 1/2"	27 3/4"
3	11 1/4"	13 7/8"
4	5 7/8"	7 1/4"
5	3"	3 3/4"
6	1 1/2"	1 7/8"
7	0"	0"
8	0"	0"

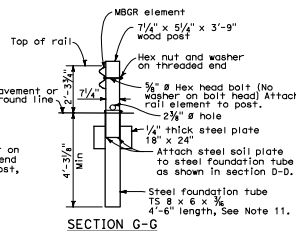
See Note 12



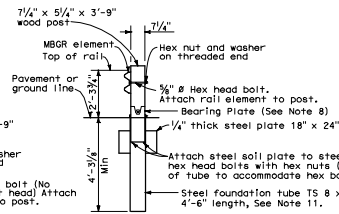
SECTION E-E
NO SCALE



SECTION F-F
NO SCALE



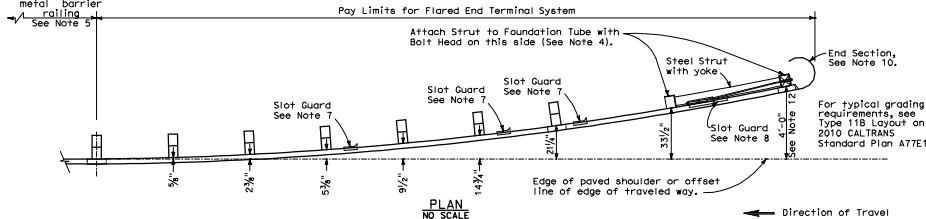
SECTION G-G
NO SCALE



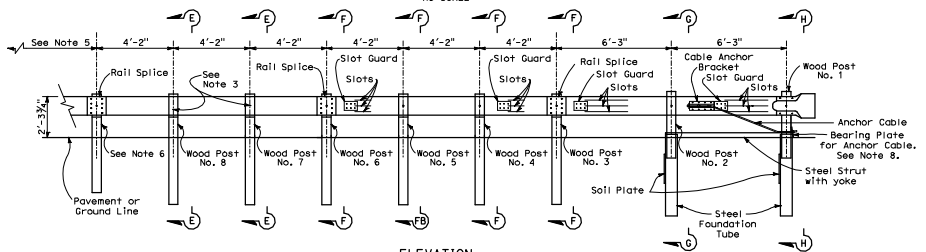
SECTION H-H
(Terminal Section
not shown)
NO SCALE

NOTES:

- For additional details of Flared End Terminal System, refer to the manufacturer's installation instructions.
- The post offset dimensions are given to the center of the traffic face of the block, except at the first two posts, where the dimension is to the center of the traffic face of the post. Offset points are to be located by chord measurements at the back of the rail equal to the nominal post spacings shown. Posts are to be set approximately radial to the railing at each post locations.
- Do not attach rail elements to posts 7 and 8.
- Attach strut to Post Nos. 1 and 2 foundation tubes with 5/8" hex head bolts, washers and hex nuts. Bolts extend through the strut, steel foundation tube, and wood posts.
- For the length and type of metal beam guard railing or metal barrier railing the terminal system is attached to, see the Project Plans.
- Attach rail element to this post and block. Payment for this post, block and hardware is included in payment for the type of railing or barrier the terminal system is attached to, not part of payment for Flared End Terminal System.
- The deflector angle of the slot guard is to be positioned immediately downstream of the slots.
- For bearing plate orientation, refer to the manufacturer's installation instructions.
- For typical use of this terminal system with guard railing, see the AT7E, AT7F and AT7G Series of 2010 CALTRANS Standard Plans. See 2010 CALTRANS Standard Plan A78E for typical use of this terminal system with single tribe beam barrier.
- A complete wrap around end section may be continued to be used in existing installations. New installations shall be constructed with the 3/4" wrap end section shown.
- A 6'-0" length steel foundation tube, TS 8 x 6 x 3/4, without a soil plate, may be furnished and installed in place of the 4'-6" length steel foundation tube and soil plate shown. Minimum embedment of the 6'-0" length tube shall be 5'-9". A 5/8" hex head bolt and nut shall be installed in the hole in 6'-0" length tube to keep the wood post from dropping into the tube.
- Where site conditions will not accommodate use of the standard 4'-0" system end offset, 3'-6" or 3'-0" system end offsets, as applicable, may be used. See Table A for post offset dimensions for 3'-6" and 3'-0" system end offsets.



PLAN
NO SCALE



ELEVATION
NO SCALE

FLARED END TERMINAL SYSTEM (8 Post System) See Note 9

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN



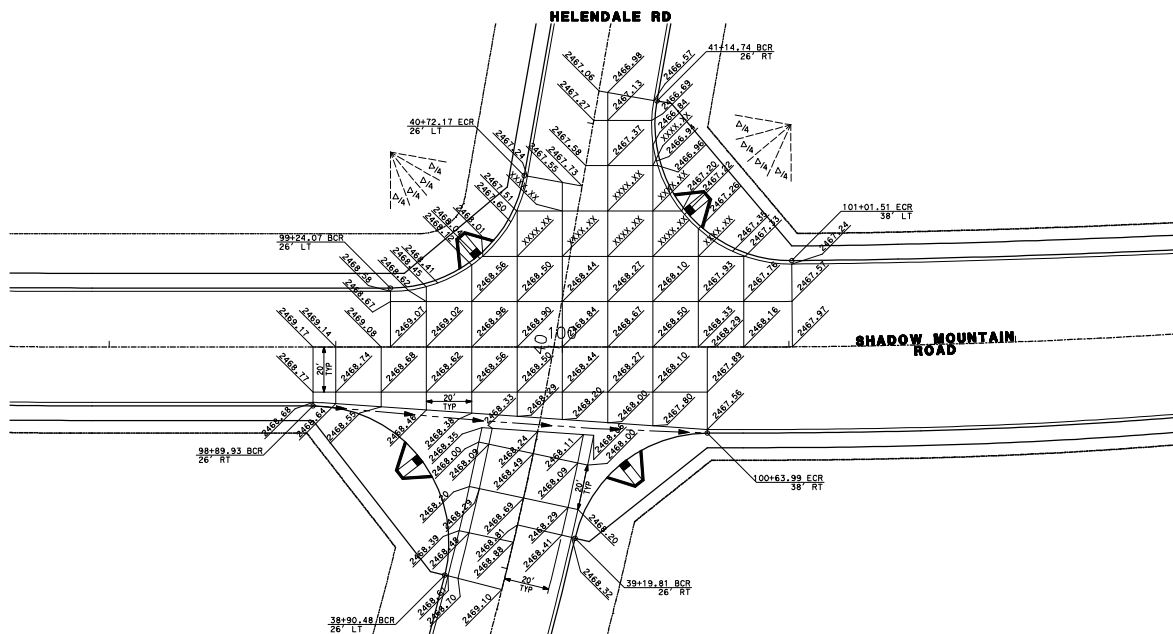
DATE	REVISIONS

PLANS PREPARED BY
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COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	DATE
XXXX XXXX P.E. DEPUTY DIRECTOR	DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	DATE

SHADOW MOUNTAIN ROAD
FLARED END
METAL BEAM GUARD-RAILING
TERMINAL SYSTEM

J.L. REF.	W.D. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXXX	C-13	45	X



DATE	REVISIONS

DATE	REVISIONS



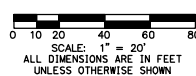
WARN	CHANGES	RESIDENT ENGINEER	DATE
NO CHANGES			

FIELD CHANGES

PLANS PREPARED BY
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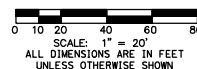
COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	DATE
XXXX XXXX P.E. DEPUTY DIRECTOR	
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	

SHADOW MOUNTAIN ROAD GRADING PLAN SHADOW MOUNTAIN ROAD - HELENDALE ROAD INTERSECTION DETAIL			
J.L. REF.	N.D. NO.	DRAWING NO.	SHEET NO.
JL XXXX	XX XXXXXX	C-14	46
			TOTAL SHEETS
			X



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6/20/2012

60% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION



30% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

MARK	REVISIONS	APPR.	DATE

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DIALS 811
for the location of
buried
utility lines.
Don't disrupt
vital services.



NO BORING DAYS BEFORE YOU DIG

MARK	CHANGES	
	NO CHANGES	RESIDENT ENGINEER _____ DATE _____

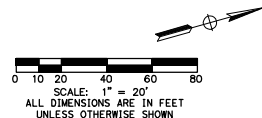
FIELD CHANGES

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COUNTY OF SAN BERNARDINO	
DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	
XXXX XXXX P.E. DEPUTY DIRECTOR	DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	DATE

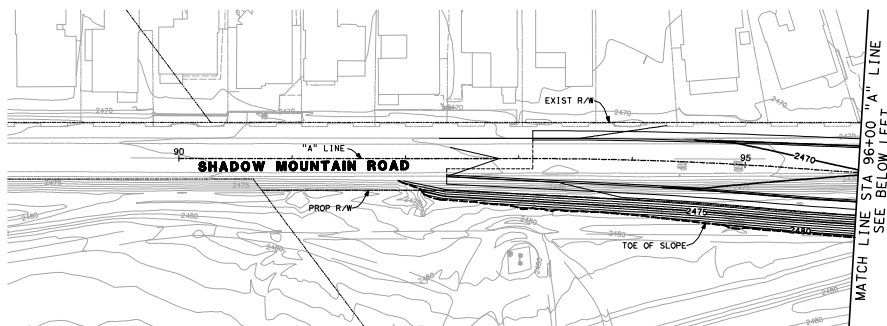
SHADOW MOUNTAIN ROAD				
GRADING PLAN				
SHADOW MOUNTAIN ROAD - VISTA ROAD				
INTERSECTION DETAIL				
J.L. REF. JL XXXX	R.O. NO. XX XXXXXX	DRAWING NO. C-15	SHEET NO. 47	TOTAL SHEETS X

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6/20/2017



BOB DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

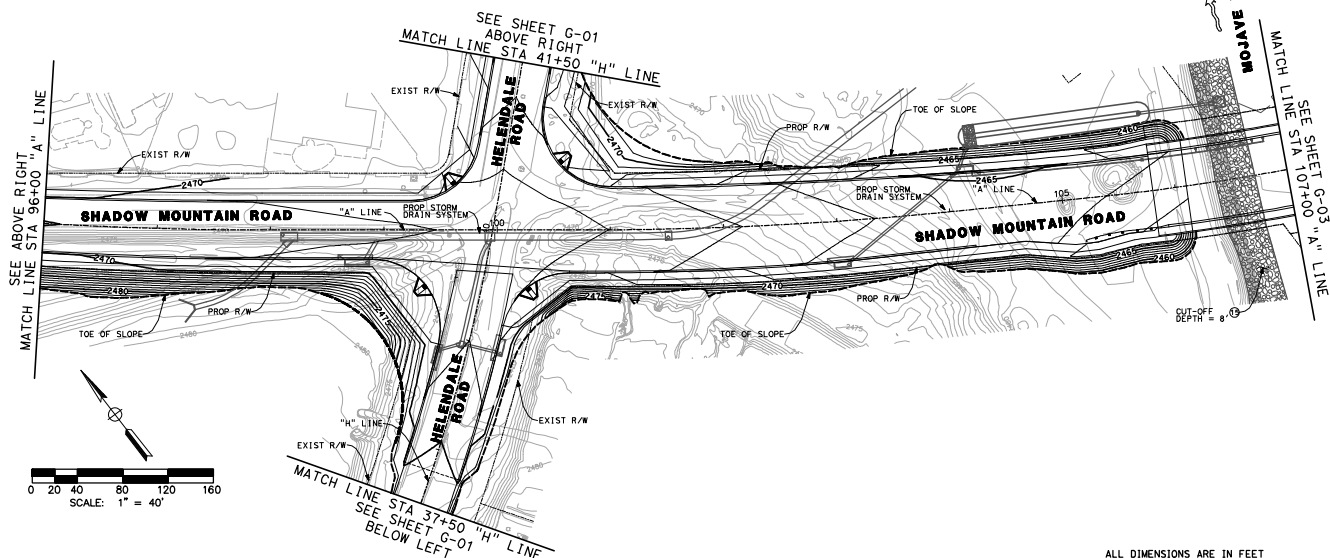
[illegible]



CONSTRUCTION NOTES:

(9) CONST ROCK SLOPE PROTECTION PER DET 4, SHT C-11

PROPOSED ROCK SLOPE PROTECTION



SCALE: 1" = 40'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN



Don't Dig Until You Get U.S.A. 1st Free
DIALS #11
for the location
of the line.
Don't dig until
you get approval.

NO BORING DATA BEFORE '02' IS

MARK CHANGES
NO CHANGES

FIELD CHANGES

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JAMES FARBER R.C.E. 45448 EXPIRES 12-31-12

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

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XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

SHADOW MOUNTAIN ROAD

GRADING PLAN
STA 92+00 "A" LINE TO 107+00 "A" LINE
STA 37+50 "H" LINE TO STA 41+50 "H" LINE

J.L. REF.	R.D. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	G-02	50	X

BOX DRAFT SUBMITTAL - NOT FOR CONSTRUCTION

CONSTRUCTION NOTES:

19 CONST ROCK SLOPE PROTECTION PER DET 4, SHT C-11

PROPOSED ROCK SLOPE PROTECTION

MOJAVE RIVER

SEE SHEET G-02
MATCH LINE STA 107+00 "A" LINE

MOJAVE RIVER

PROP R/W

SEE STRUCTURAL PLANS

PROP R/W

CUT-OFF
DEPTH = 8"

PROP STORM
DRAIN SYSTEM

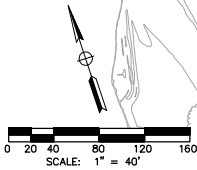
TOE OF SLOPE

"A" LINE

SHADOW MOUNTAIN ROAD

TOE OF SLOPE

MATCH LINE STA 119+00 "A" LINE
SEE SHEET G-04



ALL DIMENSIONS ARE IN FEET
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MARK CHANGES
NO CHANGES

FIELD CHANGES

RESIDENT ENGINEER DATE

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DEPARTMENT OF PUBLIC WORKS

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XXXX XXXX P.E. DEPUTY DIRECTOR DATE

XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE

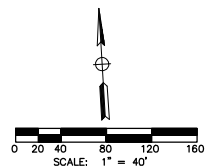
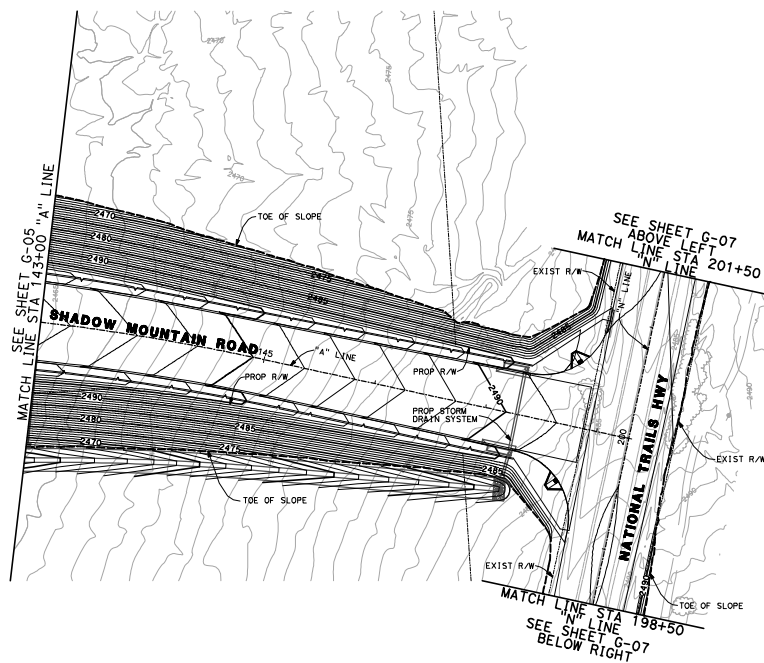
SHADOW MOUNTAIN ROAD

GRADING PLAN
STA 107+00 "A" LINE TO 119+00 "A" LINE

J.L. REF.	N.D. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	G-03	51	X

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6/20/2012

60X DRAFT SUBMITTAL - NOT FOR CONSTRUCTION



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DATE	REVISIONS	DATE	REVISIONS



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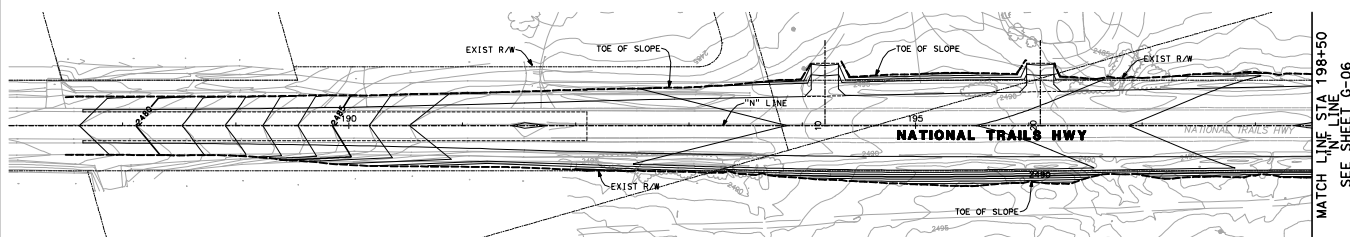
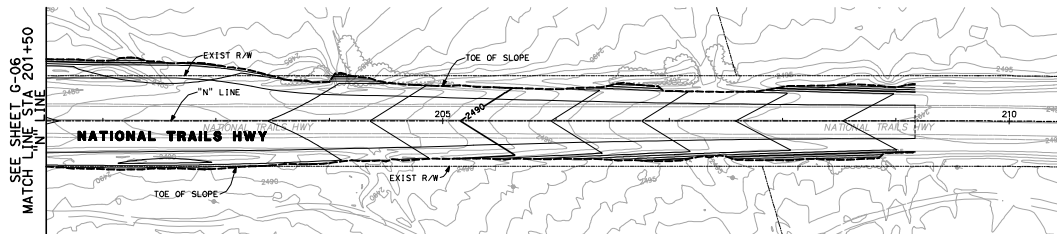
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DEPARTMENT OF PUBLIC WORKS

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XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS

SHADOW MOUNTAIN ROAD
GRADING PLAN
STA 143+00 "A" LINE TO 148+30 "A" LINE
STA 198+50 "N" LINE TO 201+50 "N" LINE

J.L. REF.	N.D. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	G-06	54	X

\\B01B068 Shadow Mountain GS\\001_CAD\\004_2111\\004\\154_P-06.dwg
6/20/2012

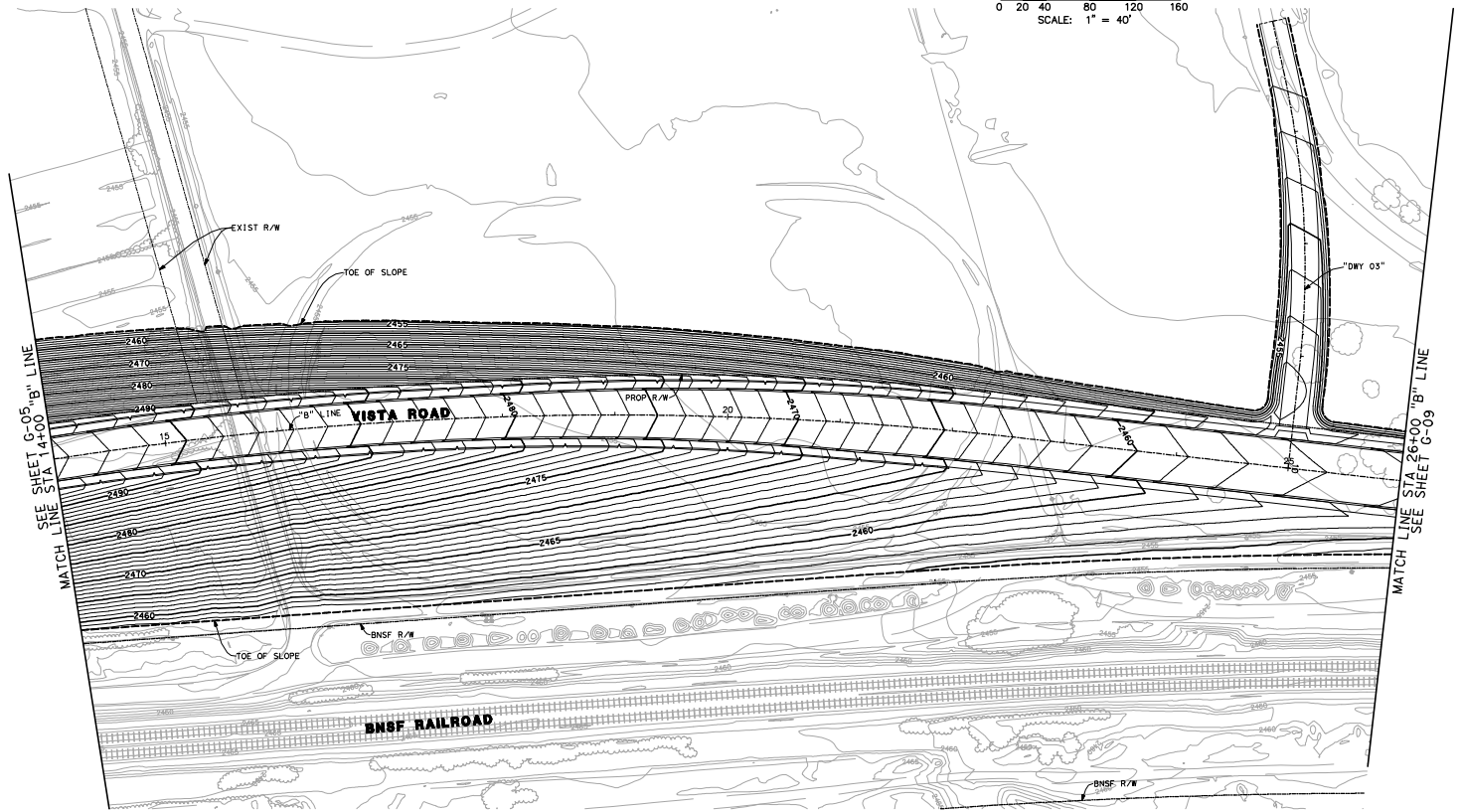


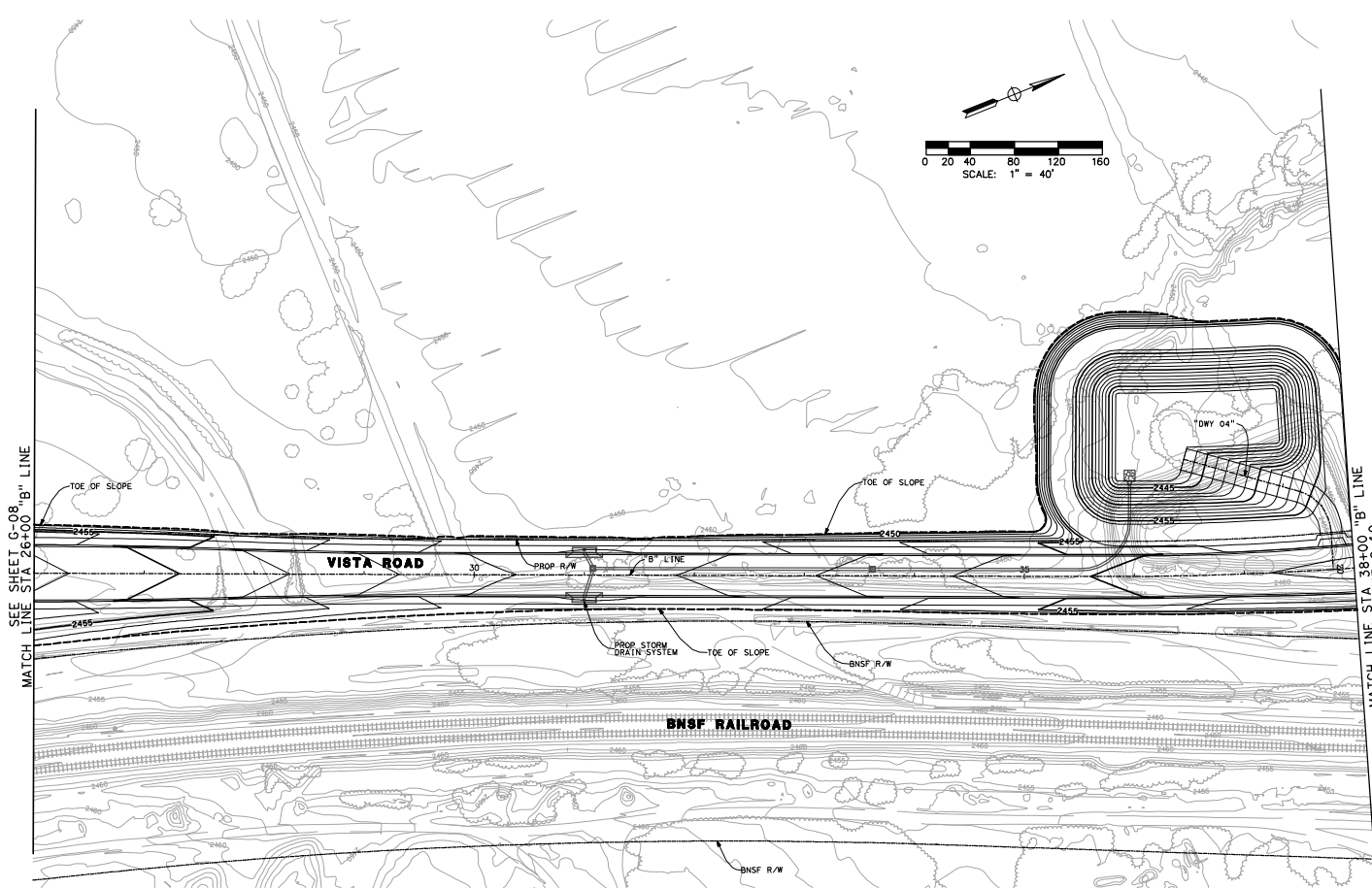
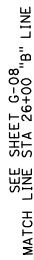
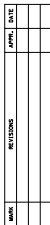
DATE	REVISIONS	DATE	REVISIONS

	FIELD CHANGES		PLANS PREPARED BY: AECOM 999 W. TOWN AND COUNTRY ROAD ORANGE, CA 92668-4713 (714) 567-2501	COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS RECOMMENDED / APPROVED BY XXXX XXXX P.E. DEPUTY DIRECTOR DATE	ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN SHADOW MOUNTAIN ROAD GRADING PLAN STA 189+00 "N" LINE TO 198+50 "N" LINE STA 201+50 "N" LINE TO 210+00 "N" LINE
	JAMES FARRER R.C.E. 45448 EXPIRES 12-31-12 DATE	XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE	J.L. REF. J.L. XXXX R.D. NO. XX XXXXXX DRAWING NO. G-07 SHEET NO. 55 TOTAL SHEETS X		

P:\8018068 Shadow Mountain GS\000_CAD\006_Civil\Drawings\G-07.dwg
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MARK	CHANGES		
	NO CHANGES	RESIDENT ENGINEER	DATE
FIELD CHANGES			

FIELD CHANGES

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COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

RECOMMENDED / APPROVED BY

XXXX XXXX P.E.	DEPUTY DIRECTOR	DATE
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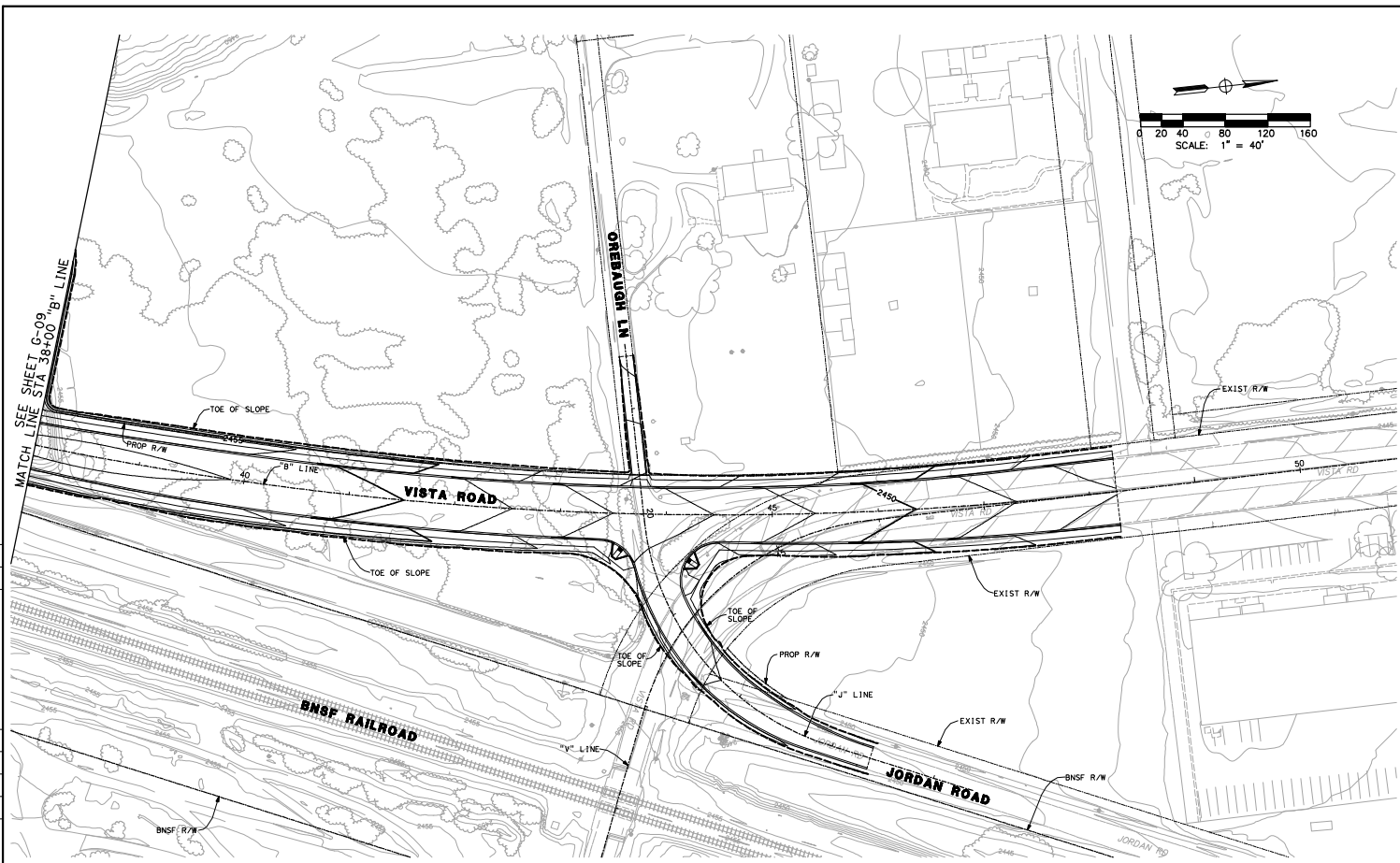
XXXX XXXX P.E.	DIRECTOR OF PUBLIC WORKS	DATE
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SHADOW MOUNTAIN ROAD

GRADING PLAN
STA 26+00 "B" LINE TO 38+00 "B" LINE,
AND "DWY 04"

J.L. REF. JL XXXX	W.O. NO. XX XXXXXX	DRAWING NO. G-09	SHEET NO. 57	TOTAL SHEETS X
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R:\00189848 Shadow Mountain 05\000_CAD\006_Civil\Sheets\57_0-09.dgn
6/22/2012



NAME	PROVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location
of buried
utility lines.
Don't disrupt
vital services.



NO WORKING DAYS BEFORE

MARK	CHANGES		
	NO CHANGES	RESIDENT ENGINEER	DATE
FIELD CHANGES			

FIELD CHANGES

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ORANGE, CA 92668-4713
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JAMES FADER R.C.E. 45460 EXPIRES 12-31-12

COUNTY OF SAN BERNARDINO
DEPARTMENT OF PUBLIC WORKS

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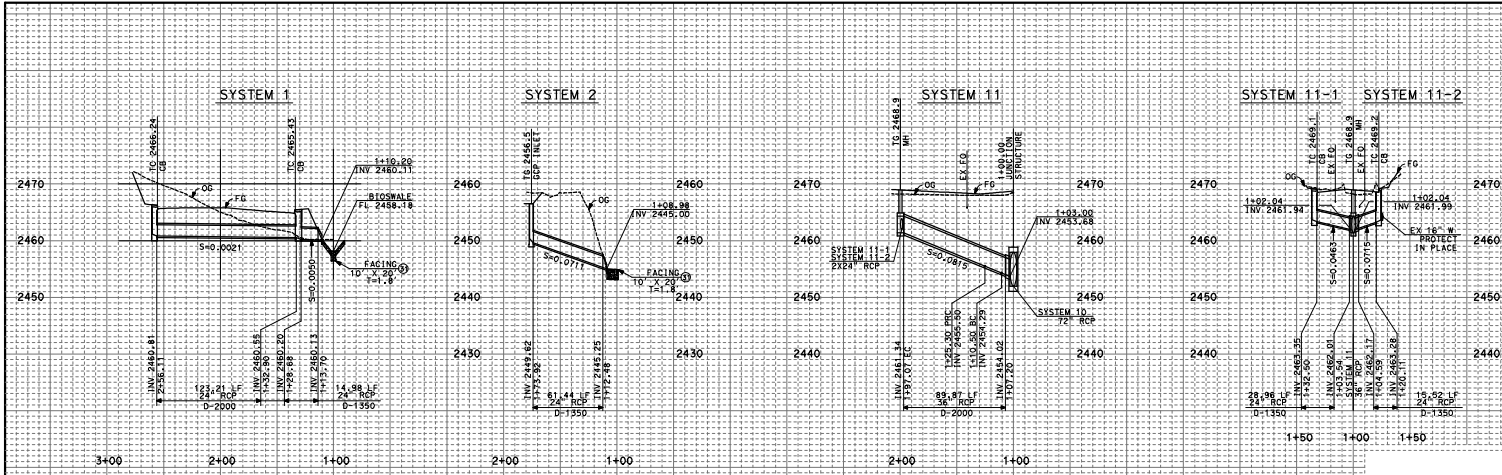
XXXX XXXX P.E. DEPUTY DIRECTOR _____ DATE _____

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

SHADOW MOUNTAIN ROAD

GRADING PLAN

J.L. REF. JL XXXX	W.O. NO. XX XXXXXX	DRAWING NO. G-10	SHEET NO. 58	TOTAL SHEETS X
----------------------	-----------------------	---------------------	-----------------	-------------------



DRAINAGE CONSTRUCTION NOTES:

1. CONST 24" RCP
2. CONST 24" CONCRETE FES PER CALTRANS STD PLAN NO. D948
3. CONST RCP TYPE AND DIMENSIONS PER PLAN
4. CONST TYPE "A" CB PER COUNTY STD 206, "X" PER PLAN
5. CONST LOCAL DEPRESSION PER COUNTY STD 2038, TYPE PER PLAN
6. CONST 8" STEEL PIPE
7. CONST 8" - 90° ELBOW
8. CONST 8" - 45° ELBOW
9. CONST CLEANOUT PER DETAIL 1 SHOWN ON SHEET D-06
10. CONST TRAPEZOIDAL BISSWALE PER DETAIL 2 SHOWN ON SHEET D-06, DIMENSIONS PER PLAN
11. CONST 8" STEEL PIPE FOR BRIDGE PLAN
12. CONST TYPE "GCP" INLET PER CALTRANS STD PLAN NO. D758
13. CONST TYPE "A" HEADWALL PER CALTRANS STD PLAN NO. D90
14. CONST 72" RCP
15. CONST MANHOLE PER SPPWC STD PLAN NO. 321-2
16. CONST MANHOLE PER SPPWC STD PLAN NO. 322-2
17. CONST TRANSITION STRUCTURE PER SPPWC STD PLAN NO. 340-2
18. CONST CATCH BASIN PER SPPWC STD PLAN NO. 307-3 (CASE A)
19. CONST 36" RCP

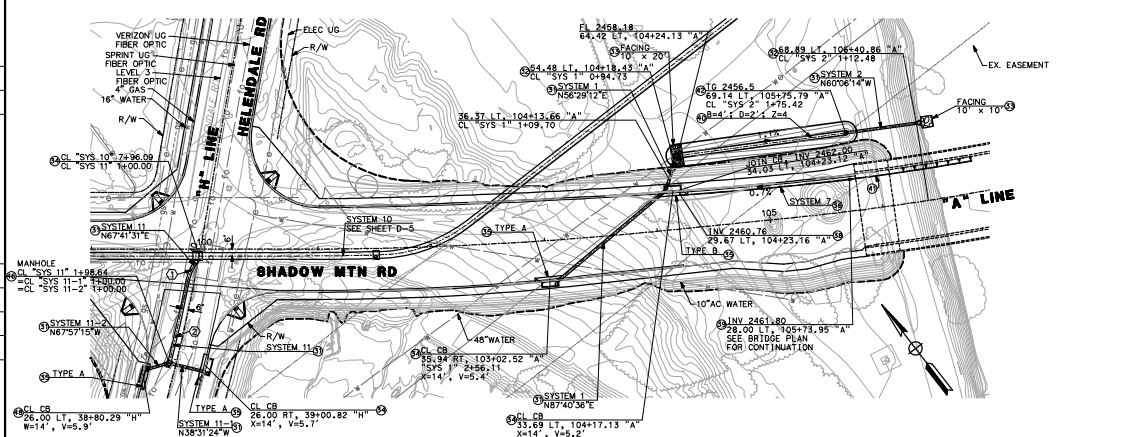
CURVE DATA				
No.	R	Δ	T	L
1	45.00'	18°30'11"	7.46'	14.79'
2	1494.00'	02°57'34"	36.59'	77.16'

0 20 40 80 120 160
SCALE: 1" = 40'

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

DATE	REVISIONS

DATE	REVISIONS



Don't Dig Until You Call U.S.A. 1st Free
DIALS 811
for the location
of the
utility lines.
Call 811
or visit
www.811.org
No digging until you call 811.

DATE	CHANGES	RESIDENT ENGINEER	DATE

FIELD CHANGES

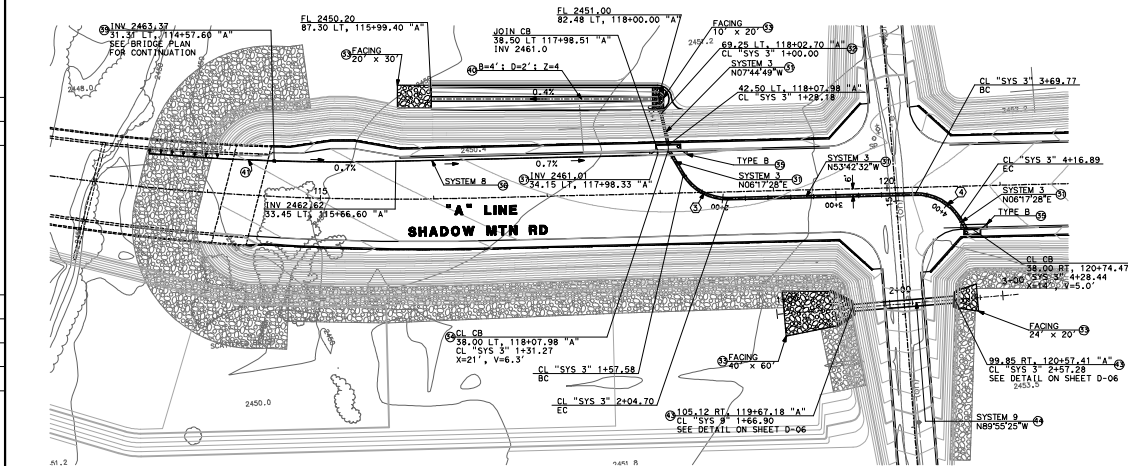
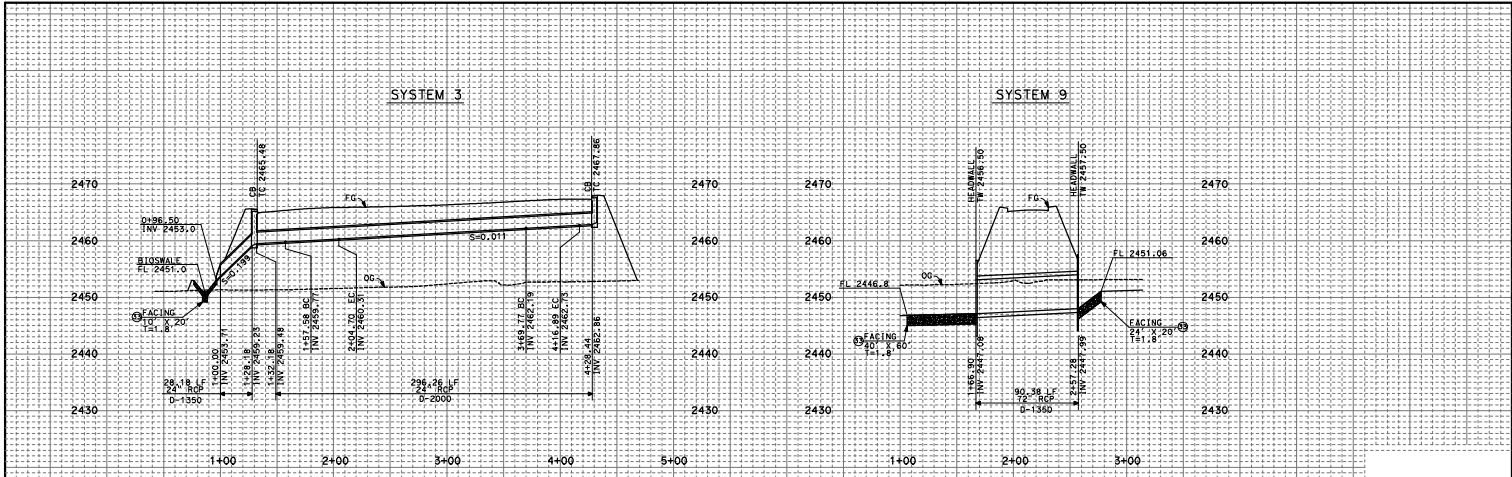
PLAN PREPARED BY
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92668-4713
(714) 567-2501

COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	DATE
XXXX XXXX P.E. DEPUTY DIRECTOR	DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	DATE

SHADOW MOUNTAIN ROAD STORM DRAIN IMPROVEMENT PLAN PLAN AND PROFILE SYSTEM 1, 1-1 AND 2			
J.L. REF. J.L. XXXX	R.D. NO. XX XXXXXX	DRAWING NO. D-01	SHEET NO. 59
			TOTAL SHEETS X

6/20/2012

6% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION



DRAINAGE CONSTRUCTION NOTES:

- CONST 24" RCP
- CONST 24" CONCRETE FES PER CALTRANS STD PLAN NO. D94B
- CONST RSP TYPE AND DIMENSIONS PER PLAN
- CONST TYPE "A" CB PER COUNTY STD 206,"X" PER PLAN
- CONST LOCAL DEPRESSION PER COUNTY STD 203B, TYPE PER PLAN
- CONST 8" STEEL PIPE
- CONST 8" - 90° ELBOW
- CONST CLEANOUT PER DETAIL 1 SHOWN ON SHEET D-06
- CONST TRAPEZOIDAL BIOSWALE PER DETAIL 2 SHOWN ON SHEET D-06, DIMENSIONS PER PLAN
- CONST 8" STEEL PIPE PER BRIDGE PLAN
- CONST TYPE "A" HEADWALL PER CALTRANS STD PLAN NO. D90
- CONST 12" RCP

CURVE DATA

NO.	R	Δ	T	L
(1)	45.00'	60°00'00"	29.98'	47.12'
(2)	45.00'	60°00'00"	29.98'	47.12'

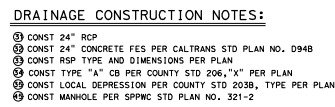
ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN

REVISIONS	DATE	BY	CHKD

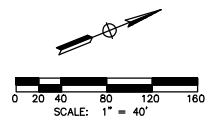
Don't Dig Until You Get U.S.A. 1st Free DIALS 811 for the location ONLY. No other work allowed. NO WORKING DAYS BEFORE 10:00 AM.	WARN CHANGES NO CHANGES	RESIDENT ENGINEER DATE	PLANS PREPARED BY AECOM 999 W. TOWN AND COUNTRY ROAD ORANGE, CA 92668-4713 (714) 567-2501	COUNTY OF SAN BERNARDINO DEPARTMENT OF PUBLIC WORKS RECOMMENDED / APPROVED BY XXXX XXXX P.E. DEPUTY DIRECTOR DATE	SHADOW MOUNTAIN ROAD STORM DRAIN IMPROVEMENT PLAN PLAN AND PROFILE SYSTEM 3
	FIELD CHANGES	JAMES FARRER R.C.E. 45448 EXPIRES 12-31-12	XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS DATE	J.L. REF. J.L. XXXX W.D. NO. XX XXXXXX DRAWING NO. D-02 SHEET NO. 60 TOTAL SHEETS X	

6/20/2012

60% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION



CURVE DATA				
No.	R	Δ	T	L
⑥	45.00'	90°0'13"	45.00'	70.69'



ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

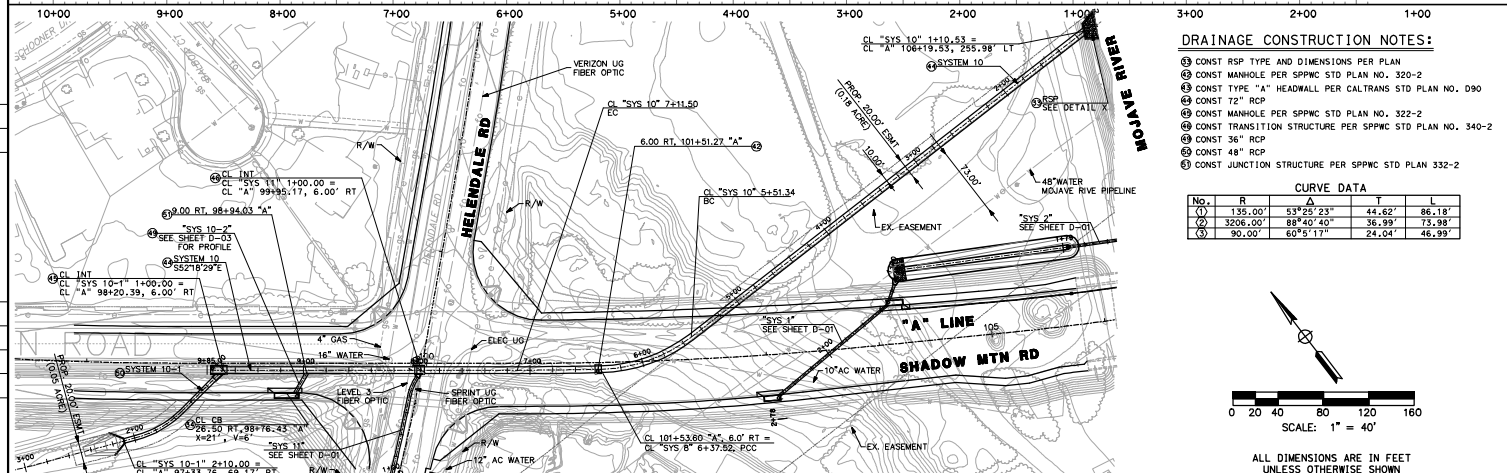
MARK	REVISIONS	APPR.	DATE

Don't Dig...Until You Call U.S.A. Toll Free DIAL 811 for the location of buried utility lines. Don't depend on utility services.		<table border="1"> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr> <td>MARK CHANGES</td> <td>_____</td> </tr> <tr> <td>NO CHANGES</td> <td>RESIDENT ENGINEER _____ DATE _____</td> </tr> </table>								MARK CHANGES	_____	NO CHANGES	RESIDENT ENGINEER _____ DATE _____
MARK CHANGES	_____												
NO CHANGES	RESIDENT ENGINEER _____ DATE _____												
TWO WORKING DAYS BEFORE YOU DIG		FIELD CHANGES											

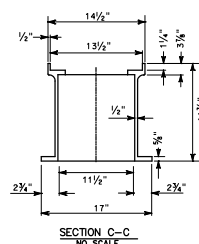
PLANS PREPARED BY:
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92668-4713
(714) 567-2501

COUNTY OF SAN BERNARDINO	
DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	
XXXX XXXX P.E. DEPUTY DIRECTOR	DATE

SHADOW MOUNTAIN ROAD				
STORM DRAIN IMPROVEMENT PLAN				
PLAN AND PROFILE				
SYSTEM 6 AND 7				
J.L. REF. JL-XXXX	R.O. NO. XX XXXXXX	DRAINING NO. D-04	SHEET NO. 52	TOTAL SHEETS 5

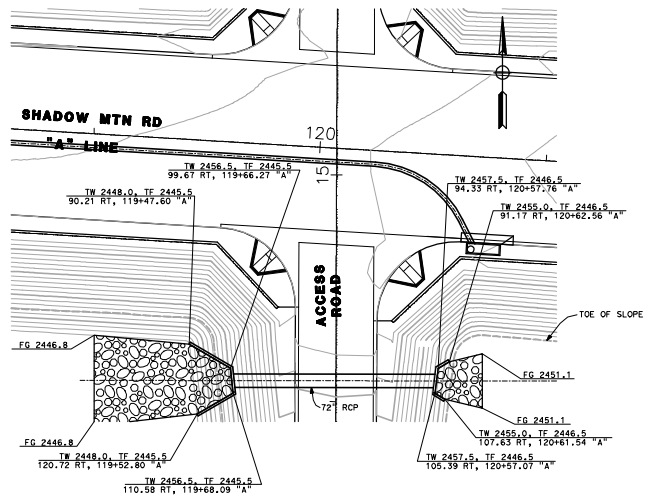


30% DRAFT SUBMITTAL - NOT FOR CONSTRUCTION



NOTES:

1. PIPES AND FITTINGS SHALL BE PROPERLY ALIGNED AND MAINTAINED WHILE CONCRETE IS BEING PLACED AND ALLOWED TO HARDEN. JOINTS FOR PIPES AND FITTINGS SHALL BE MADE PRIOR TO PLACING CONCRETE. CONCRETE FORMING, ENCASMENT, AND WALL SUPPORT FOR PIPES AND FITTINGS SHALL BE PLACED UNIFORMLY AROUND THE PIPE AND FITTINGS AS SHOWN HEREON TO MAINTAIN PROPER ALIGNMENT.
2. THE ANCHOR FRAME, COVER AND CAP SHALL BE CAST IRON. THE ANCHOR HOLES MAY BE DRILLED OUT OR MAY BE BLOCKED OUT PRIOR TO CASTING; THEY SHALL NOT BE PUNCHED OUT.
3. THE CONTRACTOR, AT HIS OPTION, MAY PLACE EITHER 12" OR 18" SQUARE CONCRETE PIPE WALL SUPPORTS AS SHOWN HEREON.



DETAIL 3
HEADWALL AND WINGWALL DETAIL
SCALE: 1" = 20'

LEGEND:

 CONSTRUCTION NOTE
BUBBLE NUMBER

SHEET NUMBER THAT

ALL DIMENSIONS ARE IN FEET
UNLESS OTHERWISE SHOWN

Don't Dig...Until You Call U.S.A. Toll Free
DIAL: 811
for the location of
buried
utility lines.
Don't disrupt
vital services.



NO BORROWING DAYS BEFORE YOU USE

MARK	CHANGES	RESIDENT ENGINEER
	NO CHANGES	
FIELD CHANGES		

PLANS PREPARED BY
AECOM
999 W. TOWN AND COUNTRY ROAD
ORANGE, CA 92668-4713
(714) 567-2501

COUNTY OF SAN BERNARDINO	
DEPARTMENT OF PUBLIC WORKS	
RECOMMENDED / APPROVED BY	
XXXX XXXX P.E. DEPUTY DIRECTOR	DATE
XXXX XXXX P.E. DIRECTOR OF PUBLIC WORKS	DATE

SHADOW MOUNTAIN ROAD
STORM DRAIN IMPROVEMENT PLAN
DETAIL SHEET

J.L. REF.	W.O. NO.	DRAWING NO.	SHEET NO.	TOTAL SHEETS
JL XXXX	XX XXXXXX	D-06	63a	X