Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	21	305

Scott W. Mann 6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT MANN
No. 72005
Exp. 6-30-16
CIVIL
STATE OF CALIFORNIA

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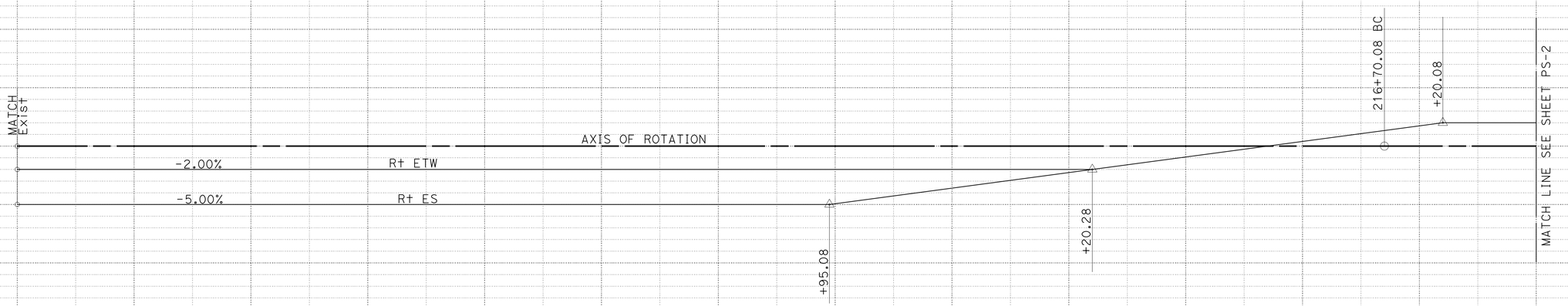
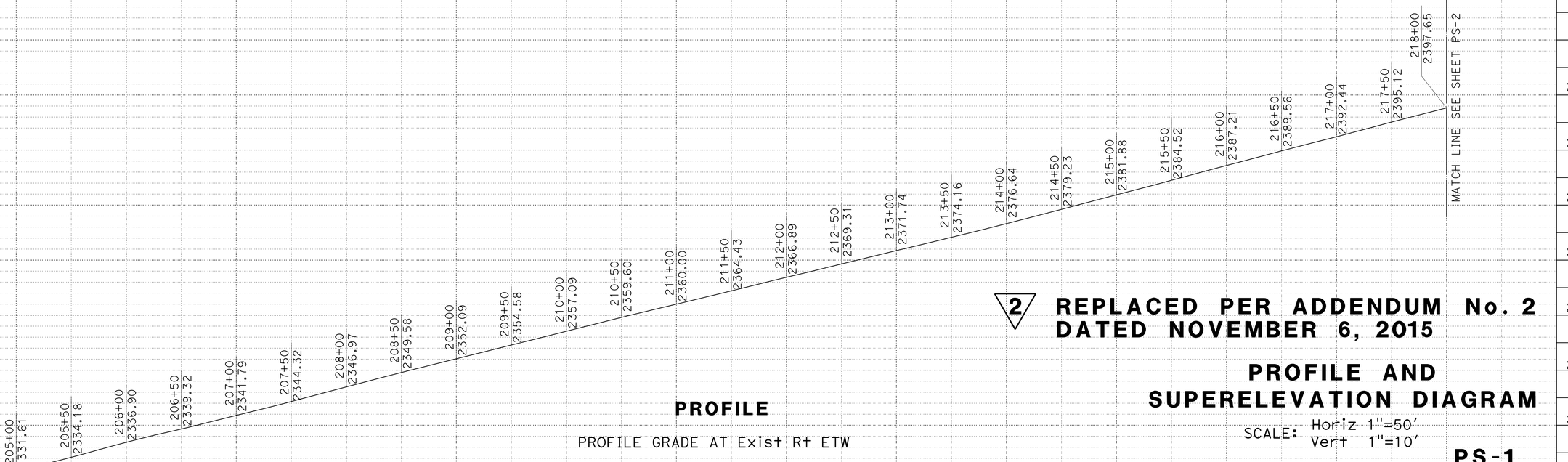


SUPERELEVATION DIAGRAM



PROFILE

PROFILE GRADE AT Exist Rt ETW

STATION	205	6	7	8	9	210	1	2	3	4	215	6	7	8	TOTAL
CY Exc	←						9081							→	9081
CY Emb	←						19026							→	19026

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-1

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REVISED BY
DATE REVISED

LAST REVISION: DATE PLOTTED => 05-NOV-2015 TIME PLOTTED => 13:10
00-00-00

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb001.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	22	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

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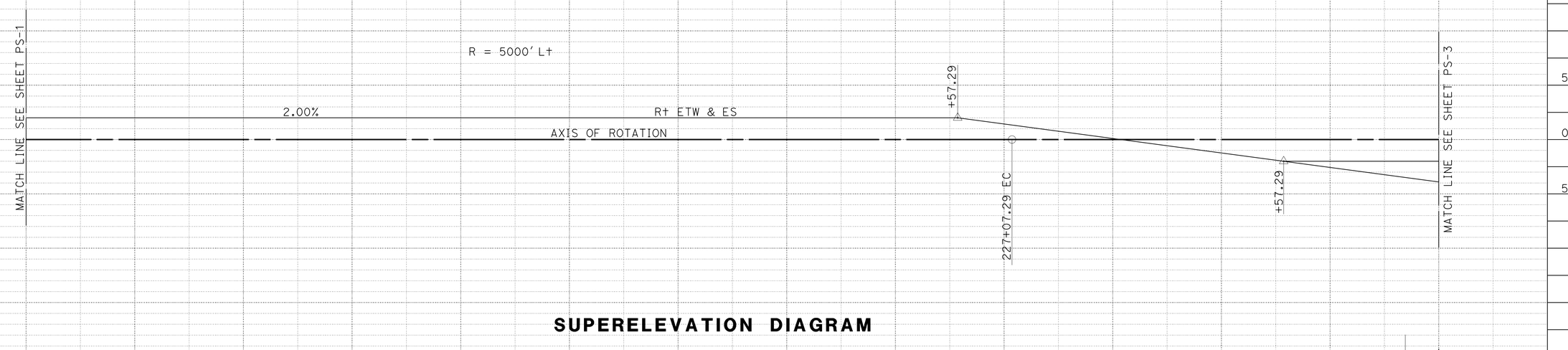
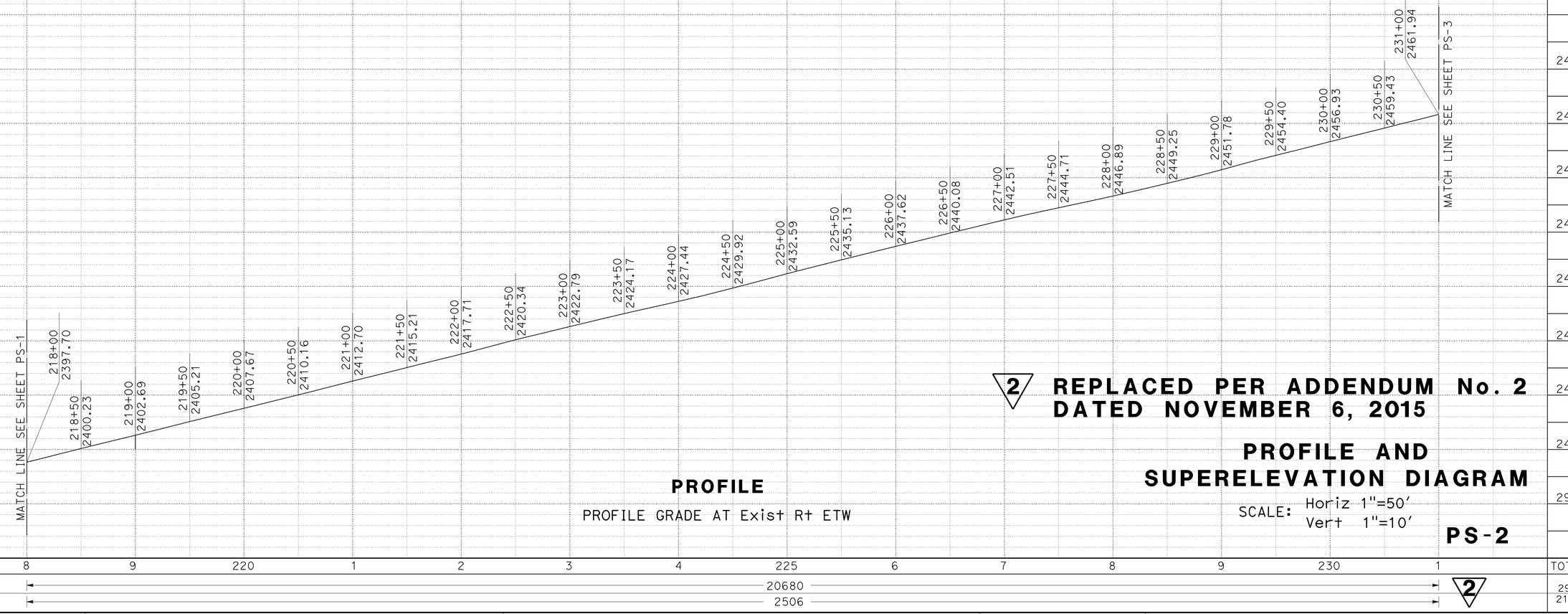
DESIGN

SUPERELEVATION DIAGRAM





PROFILE

PROFILE GRADE AT Exist Rt ETW

STATION	8	9	220	1	2	3	4	225	6	7	8	9	230	1	TOTAL
CY Exc	←							20680						→	29761
CY Emb	←							2506						→	21533

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-2

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BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020420fb002 .dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0303 | PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	23	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

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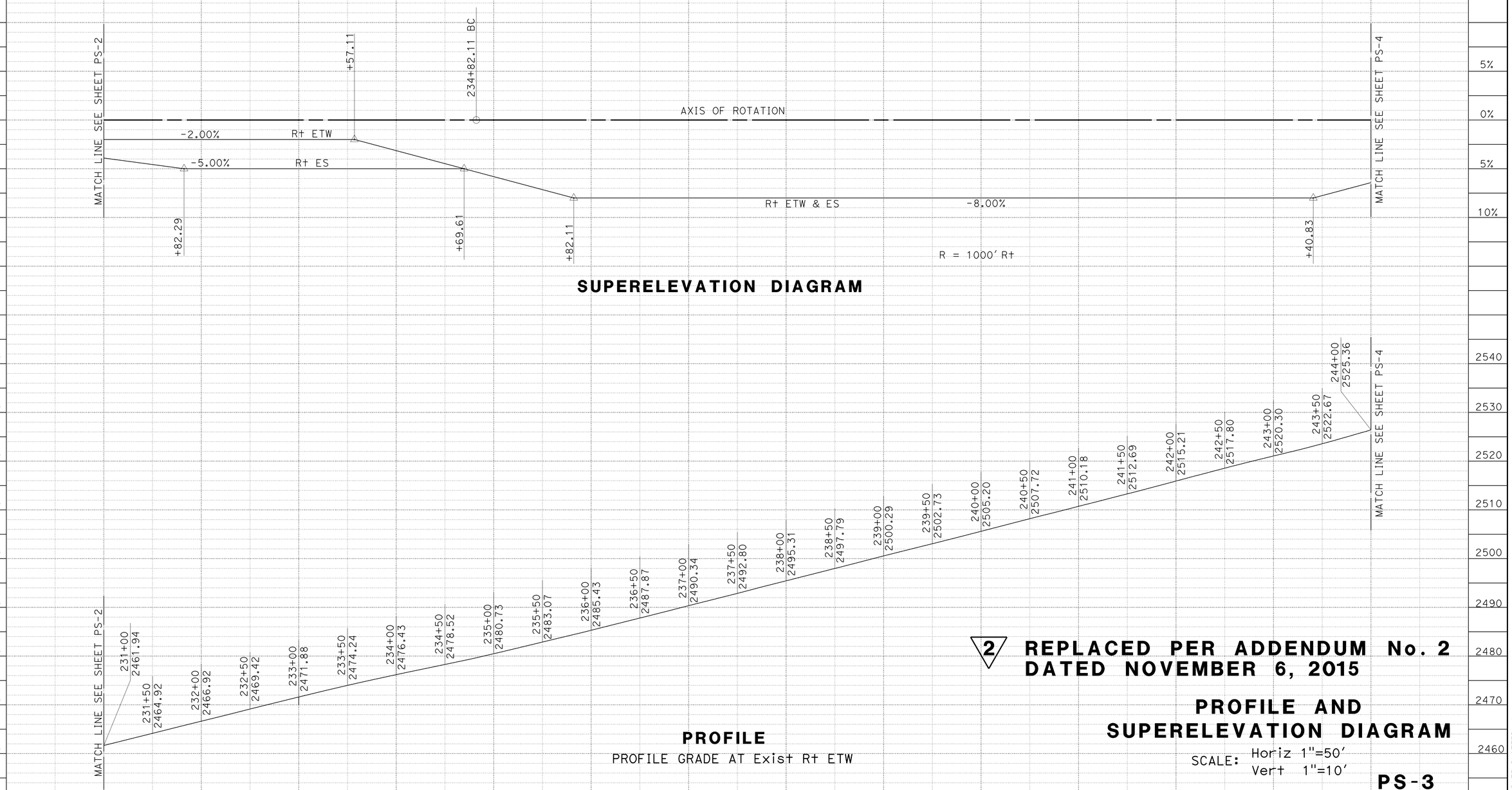

SUPERELEVATION DIAGRAM

PROFILE

PROFILE GRADE AT Exist R+ ETW

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-3

STATION	1	2	3	4	235	6	7	8	9	240	1	2	3	4	TOTAL
CY Exc								65977							95737
CY Emb								2881							24413

2

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FUNCTIONAL SUPERVISOR
SCOTT W. MANN

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USERNAME => s130875
DGN FILE => 0300020420fb003.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	24	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

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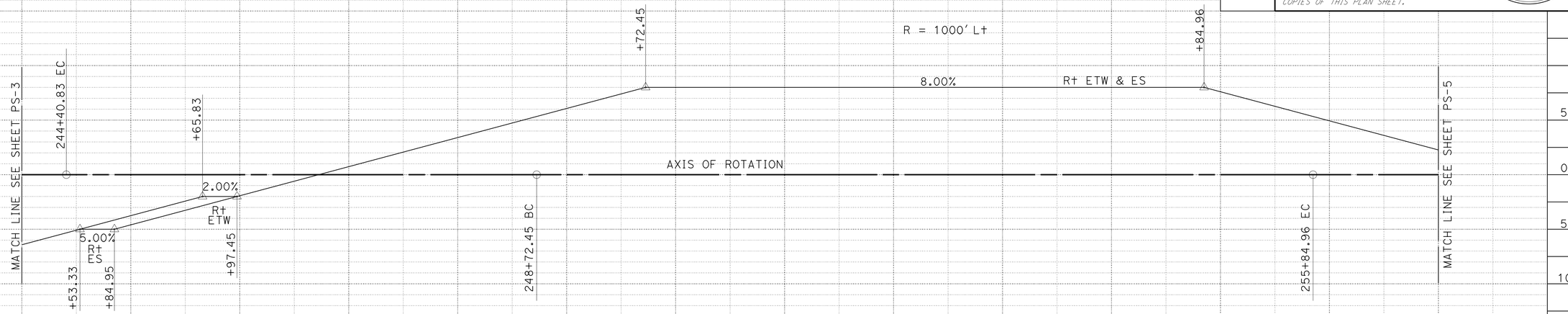
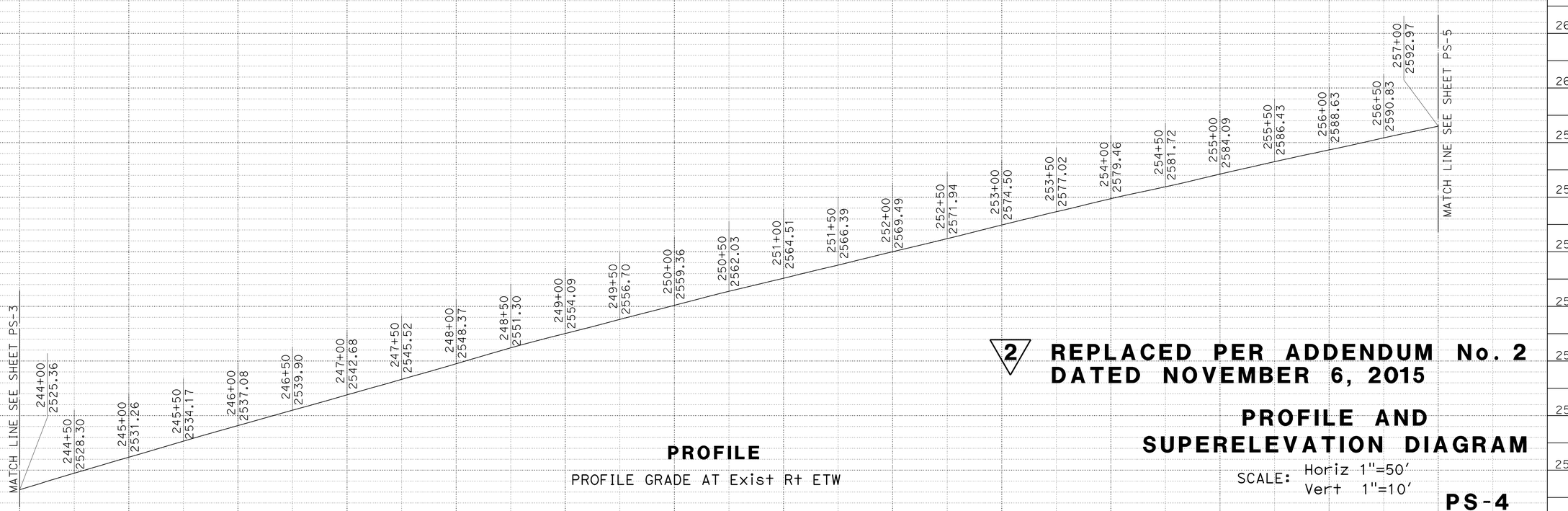


SUPERELEVATION DIAGRAM



PROFILE

PROFILE GRADE AT Exist R+ ETW

STATION	4	245	6	7	8	9	250	1	2	3	4	255	6	7	TOTAL
CY Exc							32900								128638
CY Emb							9737								34151

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
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PS-4

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb004.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	25	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

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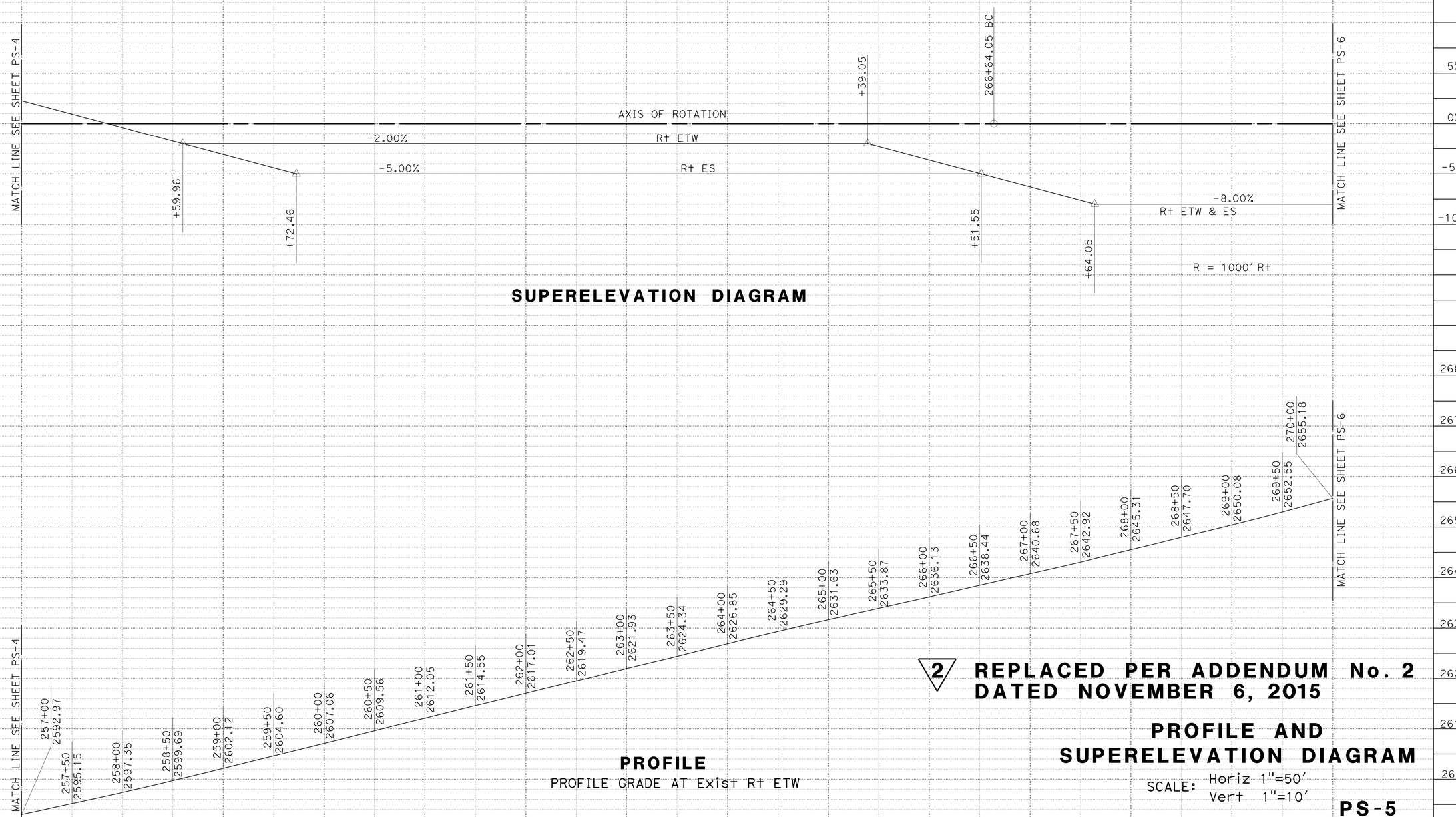

SUPERELEVATION DIAGRAM

PROFILE

PROFILE GRADE AT Exist R† ETW

STATION	7	8	9	260	1	2	3	4	265	6	7	8	9	270	TOTAL
CY Exc	◄							28938						►	157576
CY Emb	◄							9870						►	44021

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-5

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb005.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	26	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

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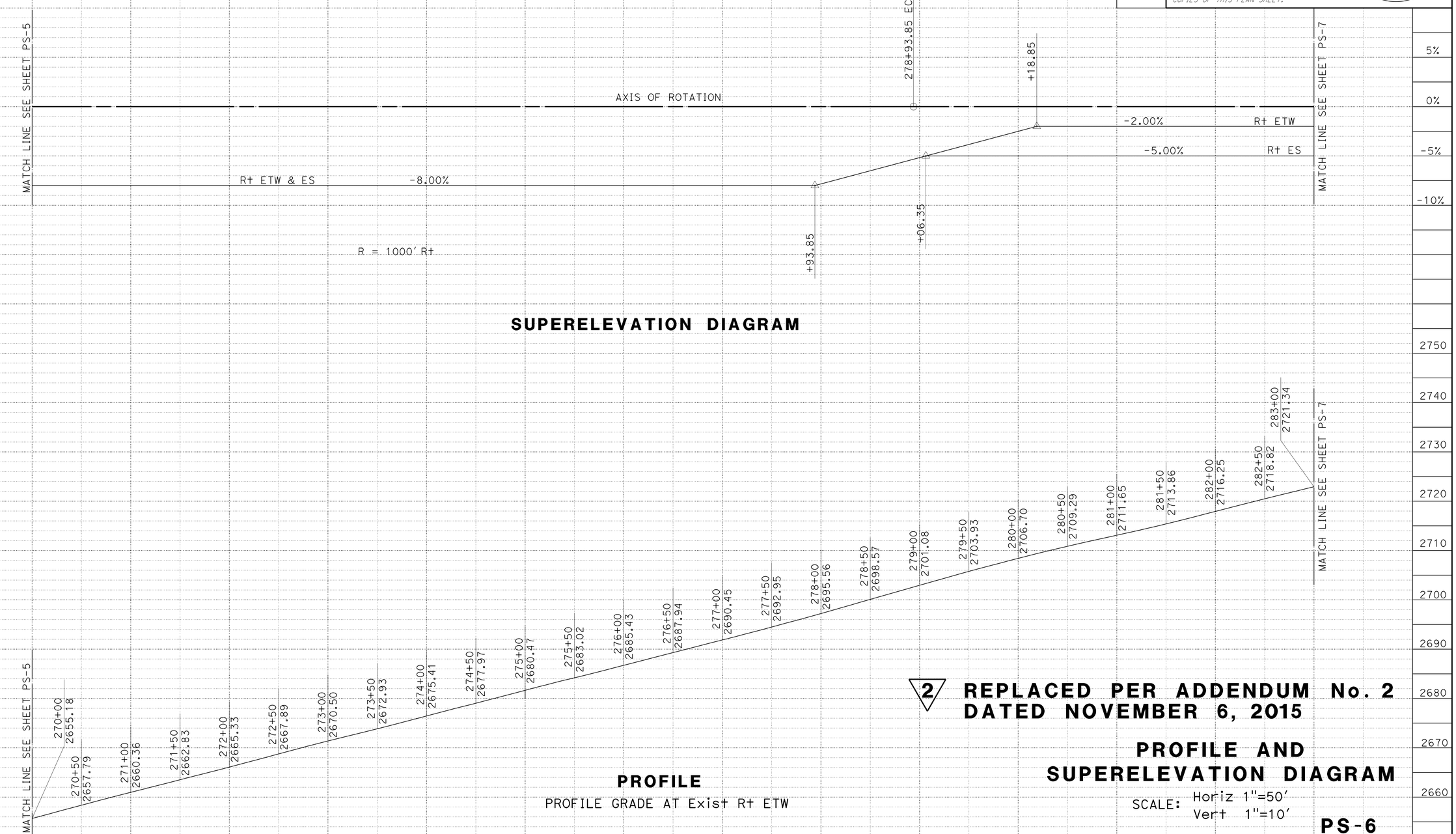

SUPERELEVATION DIAGRAM

PROFILE

PROFILE GRADE AT Exist R+ ETW

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-6

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb006.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	27	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT MANN
No. 72005
Exp. 6-30-16
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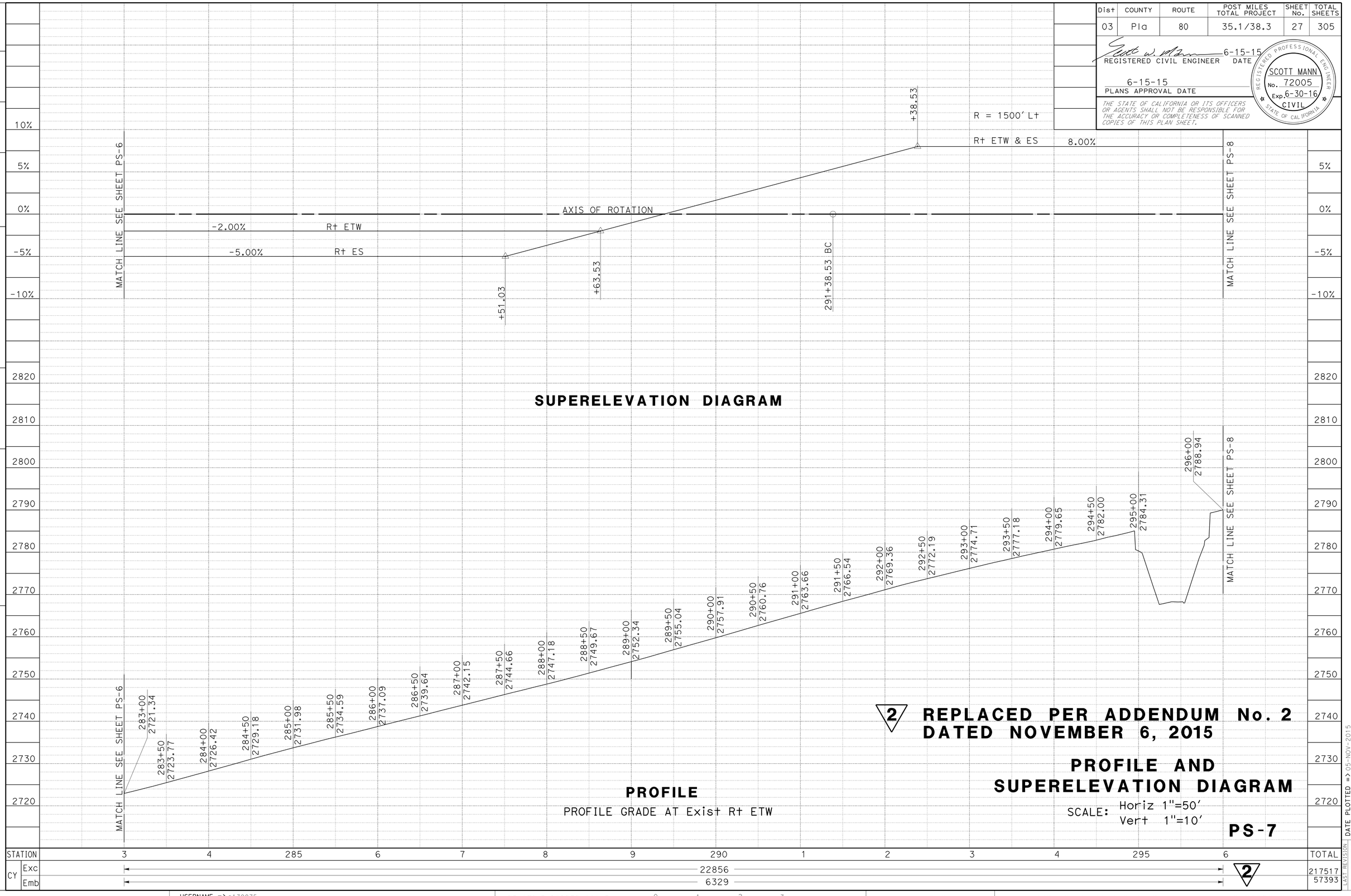

SUPERELEVATION DIAGRAM

PROFILE

PROFILE GRADE AT Exist R↑ ETW

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-7

STATION	3	4	285	6	7	8	9	290	1	2	3	4	295	6	TOTAL
CY Exc	◄							22856						► 2	217517
CY Emb	◄							6329						► 2	57393

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb007.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	28	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT MANN
No. 72005
Exp. 6-30-16
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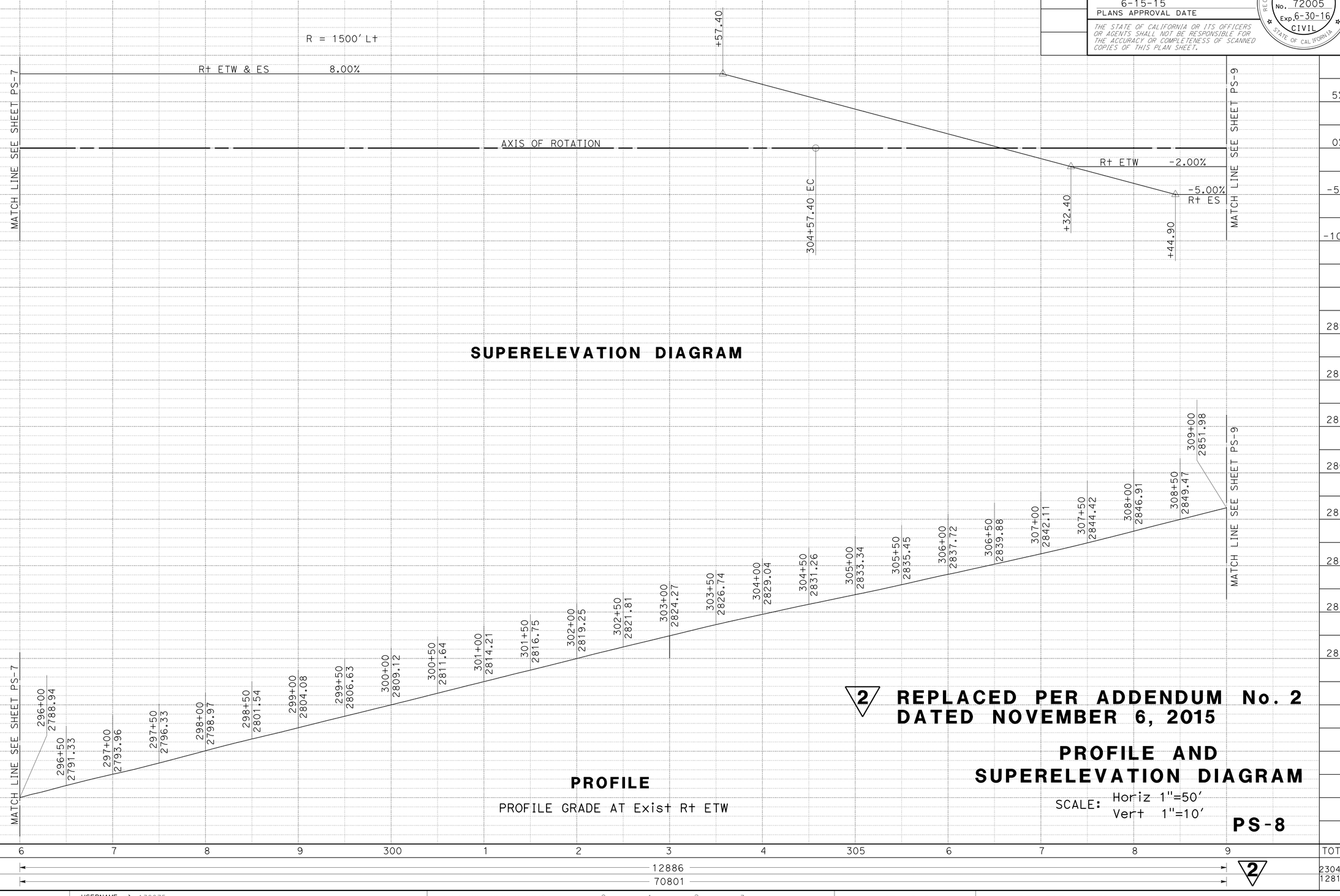

SUPERELEVATION DIAGRAM

PROFILE

PROFILE GRADE AT Exist R+ ETW

STATION	6	7	8	9	300	1	2	3	4	305	6	7	8	9	TOTAL
CY Exc	◄													►	230403
CY Emb	◄													►	128194

12886 (Exc) 70801 (Emb)

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-8

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb008.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	29	305

Scott W. Mann 6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
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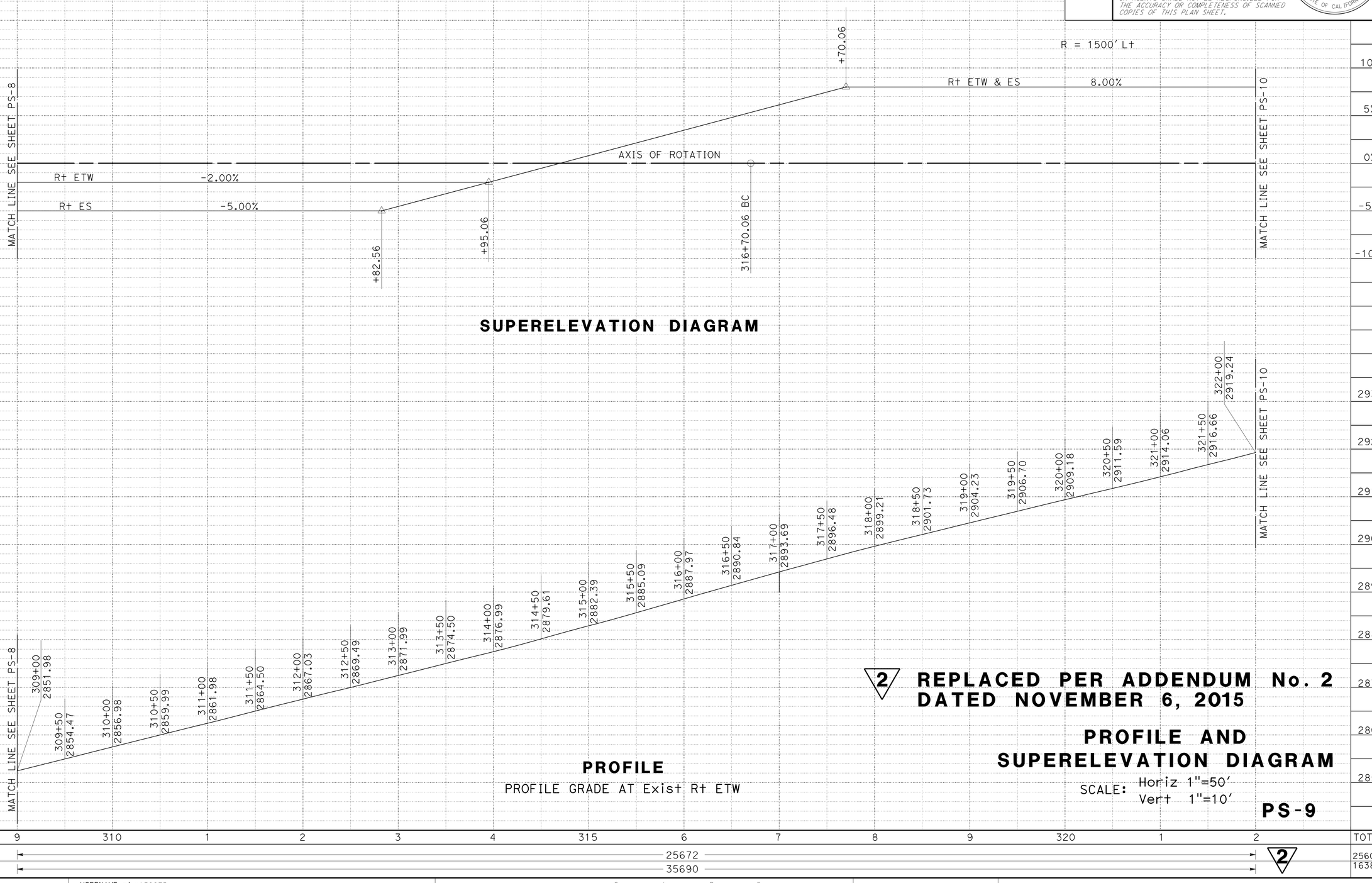

SUPERELEVATION DIAGRAM

PROFILE

PROFILE GRADE AT Exist Rt ETW

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-9

STATION	9	310	1	2	3	4	315	6	7	8	9	320	1	2	TOTAL
CY Exc								25672						2	256074
CY Emb								35690							163884

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb009.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	30	305

Scott W. Mann 6-15-15
REGISTERED CIVIL ENGINEER DATE

6-15-15
PLANS APPROVAL DATE

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SCOTT MANN
No. 72005
Exp. 6-30-16
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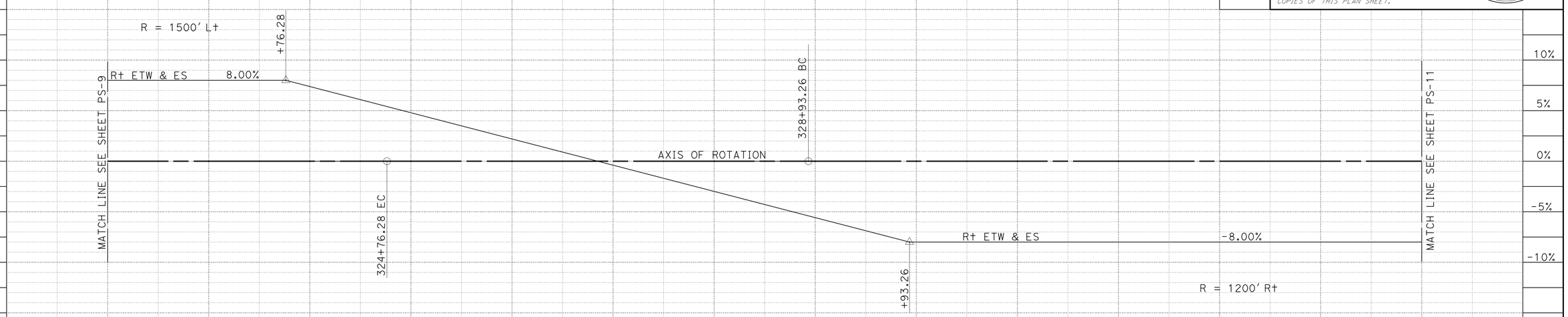
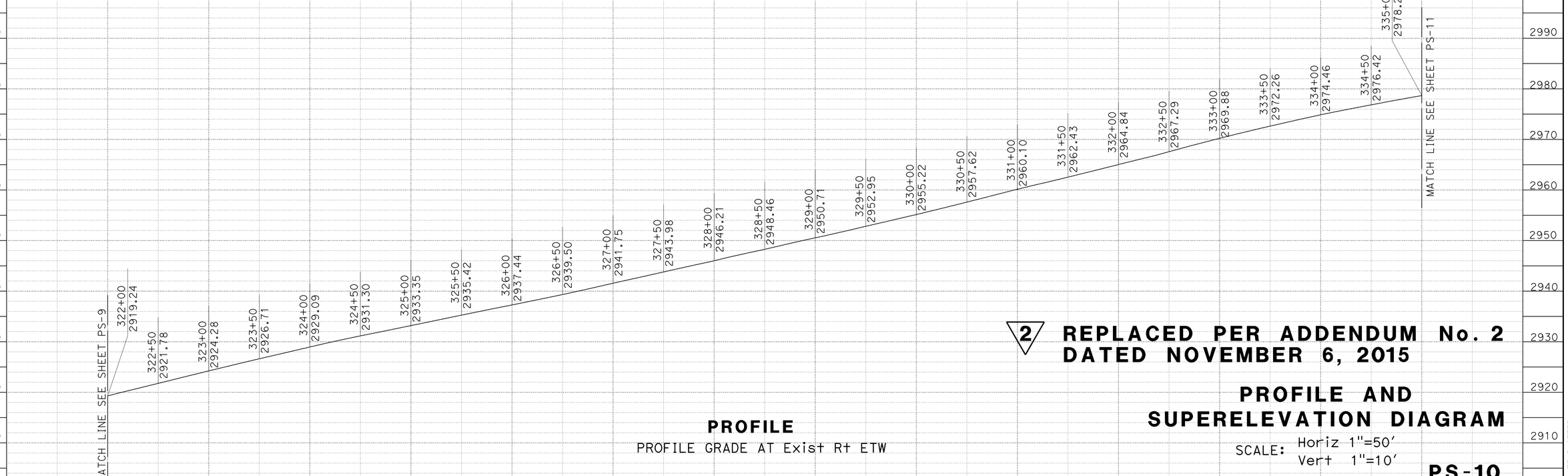


SUPERELEVATION DIAGRAM



2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-10

PROFILE

PROFILE GRADE AT Exist Rt ETW

STATION	2	3	4	325	6	7	8	9	330	1	2	3	4	335	TOTAL
CY Exc	◄								7844					► 2	263918
CY Emb	◄								7842					► 2	171726

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BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb010.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	31	305

Scott W. Mann 6-15-15
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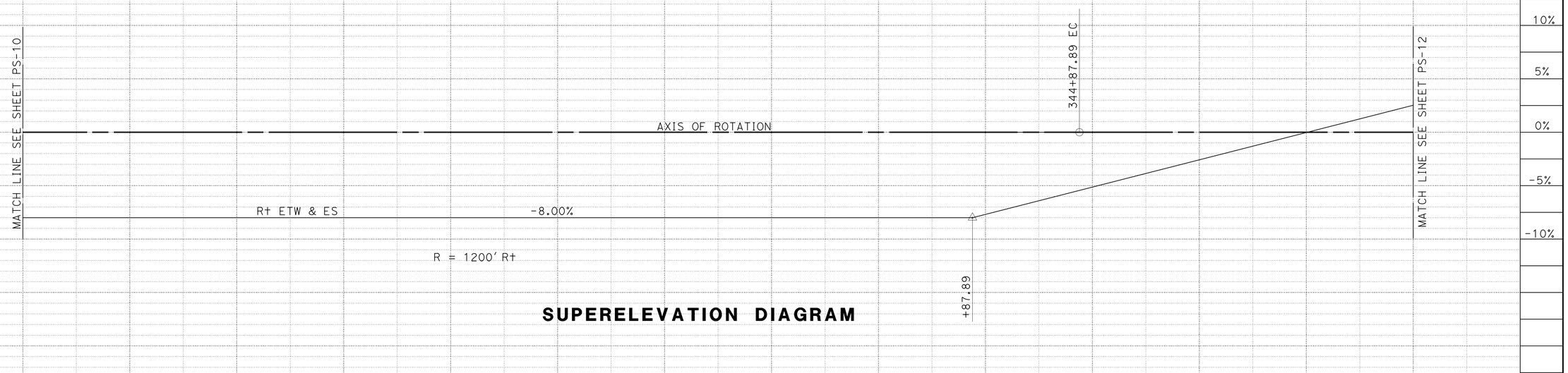

SUPERELEVATION DIAGRAM

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE

PROFILE GRADE AT Exist R↑ ETW

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-11

STATION	335	6	7	8	9	340	1	2	3	4	345	6	7	8	TOTAL
CY Exc	←						17904							→	281822
CY Emb	←						65							→	171790

2

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USERNAME => s130875
DGN FILE => 0300020420fb011.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	32	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT MANN
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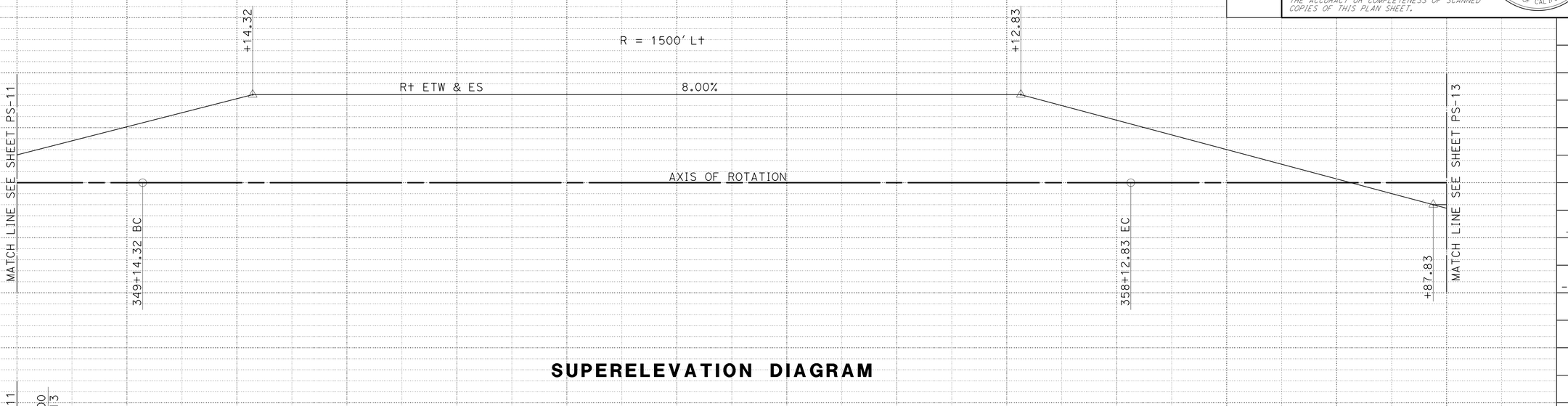
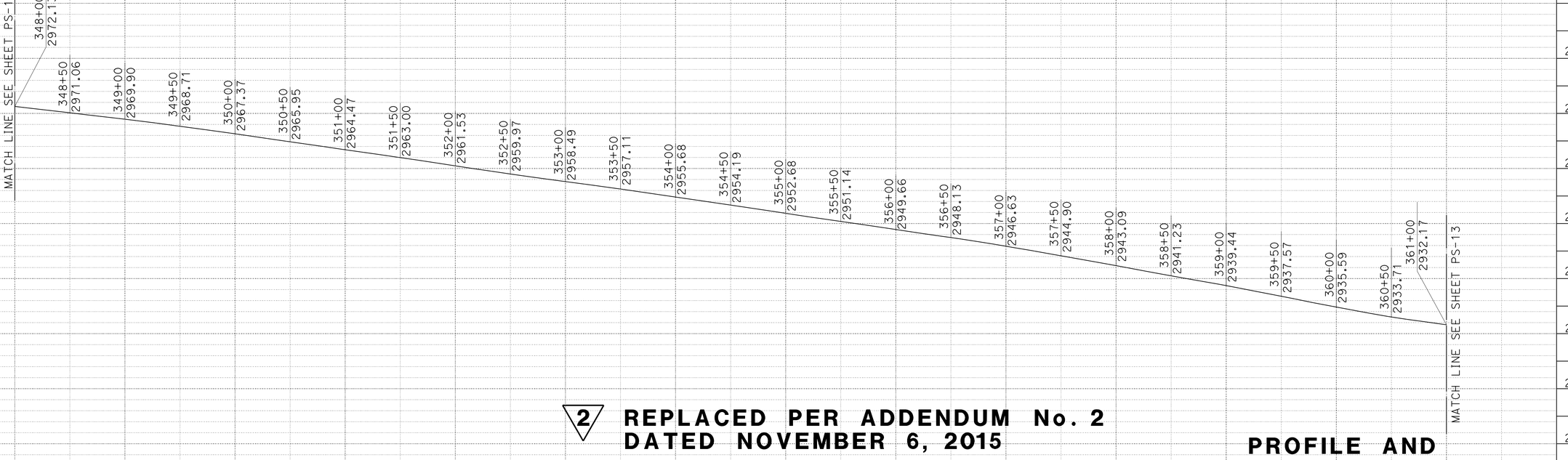


SUPERELEVATION DIAGRAM



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PROFILE

PROFILE GRADE AT Exist R+ ETW

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-12

STATION	8	9	350	1	2	3	4	355	6	7	8	9	360	1	TOTAL
CY Exc	◄							3855						►	285678
CY Emb	◄							2373						►	174164

2

CALCULATED-DESIGNED BY
CHECKED BY
REVISED BY
DATE REVISED
GINA M. LOPEZ
LUZ M. VILLANUEVA
FUNCTIONAL SUPERVISOR
SCOTT W. MANN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION DATE PLOTTED => 05-NOV-2015
TIME PLOTTED => 13:10
00-00-00

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb012.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

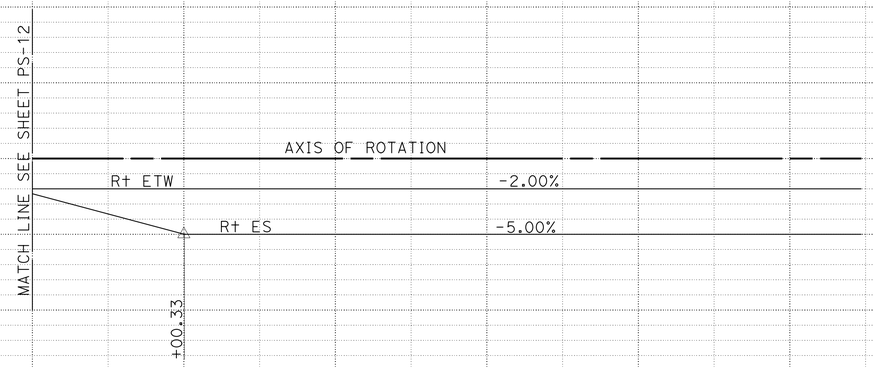
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	33	305

Scott W. Mann 6-15-15
REGISTERED CIVIL ENGINEER DATE

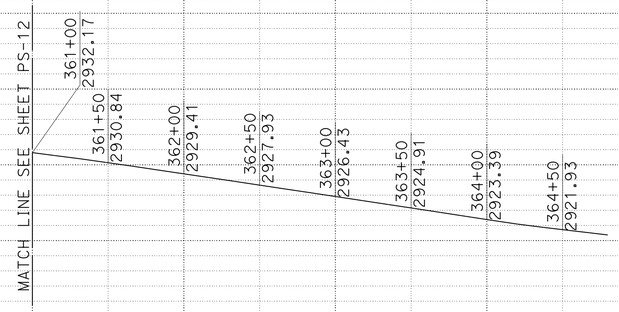
6-15-15
PLANS APPROVAL DATE

REGISTERED PROFESSIONAL ENGINEER
SCOTT MANN
No. 72005
Exp. 6-30-16
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.



SUPERELEVATION DIAGRAM



2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

PROFILE

PROFILE GRADE AT Exist R+ ETW

PROFILE AND SUPERELEVATION DIAGRAM

SCALE: Horiz 1"=50'
Vert 1"=10'

PS-13

STATION	1	2	3	4	365	6	7	TOTAL
CY Exc	← 2529 →							288207
CY Emb	← 346 →							174509

2

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans®
DESIGN
FUNCTIONAL SUPERVISOR: SCOTT W. MANN
CALCULATED-DESIGNED BY: GINA M. LOPEZ
CHECKED BY: LUZ M. VILLANUEVA
REVISED BY
DATE REVISED

LAST REVISION DATE PLOTTED => 05-NOV-2015
00-00-00 TIME PLOTTED => 13:10

BORDER LAST REVISED 7/2/2010
USERNAME => s130875
DGN FILE => 0300020420fb013.dgn
RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3
UNIT 0303
PROJECT NUMBER & PHASE 03000204201

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS
03	Pla	80	35.1/38.3	185	305

6-15-15
REGISTERED CIVIL ENGINEER DATE

SCOTT MANN No. 72005 Exp. 6-30-16 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

6-15-15
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.

TEMPORARY RAILING

STATION	DIRECTION	LOCATION	STAGE	TEMPORARY RAILING (TYPE K)
				LF
"C1" 250+42.75 TO "C1" 314+37.20	EB	Rt	1	6420
"C1" 203+80.00 TO "C1" 251+20.00	EB	Rt	2	4740
"SC3" 18+91.42 TO "SC3" 33+50.00	EB	Med	2	1460
"SC3" 24+03.37 TO "SC3" 26+68.38	WB	Lt	2	260
"CHORN1" 09+17.00 TO "CHORN1" 10+54.10	-	Rt	2	120
"CHORN1" 09+34.30 TO "CHORN1" 10+53.90	-	Lt	2	140
"C1" 312+73.99 TO "C1" 367+25.45	EB	Rt	2	5460
"SC3" 10+00.00 TO "SC3" 20+50.49	EB	Med	3	1060
"SC3" 24+05.97 TO "SC3" 35+26.46	WB	Lt	3	1100
"C1" 303+24.00 TO "C1" 315+40.25	EB	Lt	3	1220
TOTAL				21,980

CONCRETE BARRIER

STATION	LOCATION	REMOVE CONCRETE BARRIER	CONCRETE BARRIER (TYPE 60)	CONCRETE BARRIER (TYPE 60C)	(N) STEEL CHANNEL CLOSURE	PORTABLE CONCRETE BARRIER (TYPE 60K)	CONCRETE BARRIER MARKER (NON-IMPACTIBLE)
		LF	LF	LF	EA	LF	EA
"C1" 241+98.31 TO "C1" 242+18.31	MED	20	20		1		
"C1" 275+75.79 TO "C1" 275+95.79	MED	20	20		1		
"C1" 280+00.00 TO "C1" 290+50.00	MED	1050	1050				
"C1" 294+90.92 TO "C1" 296+57.00	MED	166	166				
"C1" 303+25.00 TO "C1" 305+00.00	MED	175		175			
"C1" 305+00.00 TO "C1" 315+40.25	MED	1040.25	1040.25		1		
"C1" 358+61.81 TO "C1" 358+71.81	MED	10	10				
"C1" 354+60.45 TO "C1" 367+87.23	MAGRA ROAD					1352	~~52~~
TOTAL FROM SHEET PDQ-1							28 ~~51~~
TOTAL		2481.25	2306.25	175	3	1352	28 ~~103~~

NOTE:

CAPE HORN HMA-A QUANTITY INCLUDES 1.45 TONS OF HMA-A FOR 347.99 LF OF SAFETY EDGE.

ROADWAY EXCAVATION

STATION	STAGE	(N) ROADWAY EXCAVATION
		CY
"C1" 251+00.00 TO "C1" 314+37.20	1	148,251
"C1" 204+74.71 TO "C1" 251+00.00	2	107,127
"C1" 314+37.20 TO "C1" 366+50.00	2	32,829
"C1" 292+00.00 TO "C1" 299+30.00	3	
TOTAL		288,207

NOTES:
1. SEE PAVEMENT STRUCTURE QUANTITIES TABLE FOR TOTAL ROADWAY EXCAVATION.
2. STAGE 3 ROADWAY EXCAVATION INCLUDED IN STAGE 2 & CAPE HORN REPLACEMENT WORK.

PAVEMENT STRUCTURE QUANTITIES

STATION	DIRECTION	HOT MIX ASPHALT (TYPE A)	RUBBERIZED HOT MIX ASPHALT (TYPE G)	COLD PLANE ASPHALT CONCRETE PAVEMENT	CLASS 2 AGGREGATE BASE	ROADWAY EXCAVATION	SHOULDER RUMBLE STRIP (HMA, GROUND-IN INDENTATIONS)	TACK COAT
		TON	TON	SQYD	CY	CY	STA	TON
"C1" 204+74.71 TO "C1" 371+00.00	EB	15,200*	13,572		39,705	288,207**	333	24.94
"CHORN1" 8+40.00 TO "CHORN1" 11+04.31	-	193			272	1,348		0.12
"ALPINE1" 00+83.95 TO "ALPINE1" 08+85.12	EB		288					0.27
"C1" 205+00.00 TO "C1" 293+50.00	EB	*		~~3911~~	435			0.98
"C1" 296+27.30 TO "C1" 333+85.00	EB	*		~~1714~~	190			1.41
"C1" 341+68.00 TO "C1" 348+00.00	EB	*		~~415~~	46			0.53
"C1" 280+00.00 TO "C1" 290+50.00	Med	~~47~~	79	467				0.22
"C1" 303+25.00 TO "C1" 315+40.25	Med	~~55~~	91	540				0.23
"C1" 280+00.00 TO "C1" 294+90.92	WB	~~3,678~~	681	~~36,323~~	4036			9.20
"C1" 296+57.00 TO "C1" 313+75.00	WB	~~4,226~~	783	~~41,736~~	4637			19.51
"C1" 296+57.00 TO "C1" 330+50.46	EB	*		~~13,830~~	1537			13.89
FROM HMA DIKE TABLE, SHEET Q-3		276						
FROM HMA (Misc AREA) TABLE, SHEET Q-3		164		11,888				
TOTAL 17,467		~~23,839~~	13,860	~~98,936~~	39,977	289,555	333	71.30

* HOT MIX ASPHALT QUANTITY INCLUDED IN TOTAL BETWEEN STATIONS "C1" 204+74.71 TO "C1" 371+00.

**SEE ROADWAY EXCAVATION TABLE FOR TOTALS DURING EACH STAGE.

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

TEMPORARY TRAFFIC CONTROL DEVICES

STATION	DIRECTION	LOCATION	STAGE	ALTERNATIVE TEMPORARY CRASH CUSHION	TEMPORARY TERMINAL SECTION (TYPE K)	CRASH CUSHION (SCI 100 GM-SMART CUSHION, NARROW)
				EA		EA
"C1" 250+42.75	EB	Rt	1	1		
"C1" 203+80.00	EB	Rt	2	1		
"SC3" 26+68.38	WB	Lt	2		1	
"SC3" 10+00.00	Med	-	3		1	
"C1" 315+40.25	Med	-	3		1	
-	-	MAGRA ROAD				2
TOTAL				2	3	2

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 6, 2015

SUMMARY OF QUANTITIES

Q-2

REVISED BY | DATE REVISED
CALCULATED-DESIGNED BY: LUZ M. VILLANUEVA
CHECKED BY: ARMANDO CRUZ
FUNCTIONAL SUPERVISOR: SCOTT W. MANN
STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
DESIGN
Caltrans

LAST REVISION 00-00-00 | DATE PLOTTED => 05-NOV-2015 | TIME PLOTTED => 13:10

BORDER LAST REVISED 7/2/2010 | USERNAME => s130875 | DGN FILE => 0300020420pa002.dgn | RELATIVE BORDER SCALE IS IN INCHES 0 1 2 3 | UNIT 0303 | PROJECT NUMBER & PHASE 03000204201