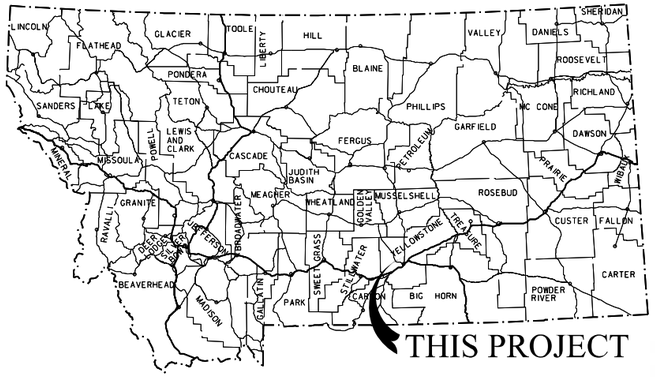
APPENDIX A

RESOURCE MAPS
(Plan and Profile)



MONTANA DEPARTMENT OF TRANSPORTATION

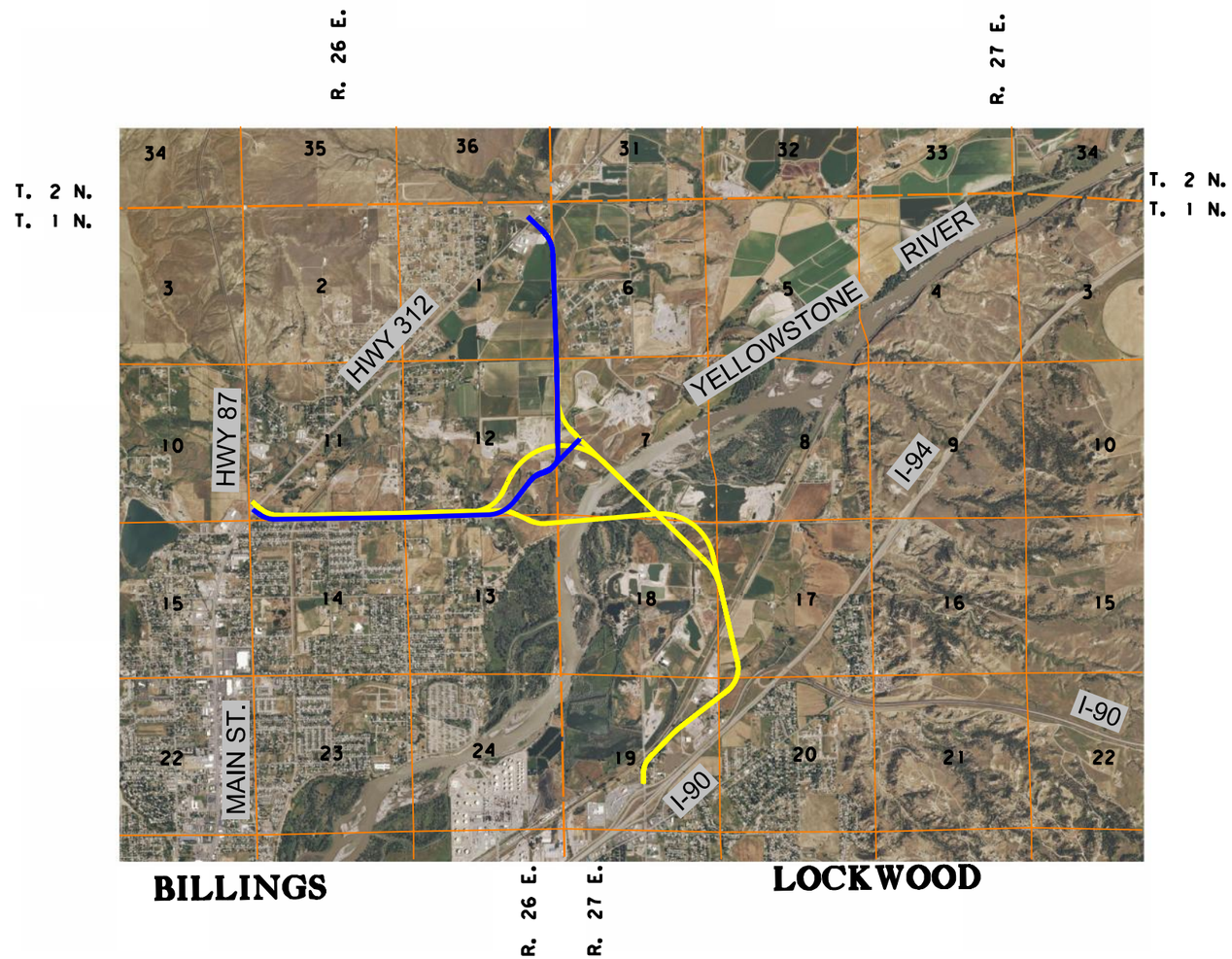
FEDERAL AID PROJECT NCPD 56(55)
BILLINGS BYPASS EIS
PRELIMINARY DESIGN ALTERNATIVES
PHASE I

YELLOWSTONE COUNTY

DESIGN DATA

CSF = N/A

SURFACING SOURCES - CONTRACTOR FURNISHED



DOWL HKM

PLANS PREPARED BY

DOWL HKM
GRANITE TOWER BUILDING
222 N. 32ND ST., SUITE 700
P.O. BOX 31318
BILLINGS, MT 59107-1318
406-656-6399
406-656-6398 (FAX)
DOWLHKM.COM

RELATED PROJECTS

ASSOCIATED PROJECT AGREEMENT NUMBERS

R / W & I.C.	
P. E.	

DOWL HKM

BY _____

DATE _____

MONTANA DEPARTMENT OF TRANSPORTATION

RECEIVED :

BY _____ _____
CONSULTANT DESIGN ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED :

_____ _____
DIVISION ADMINISTRATOR DATE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTTLZ01.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY
2		8/23/2013	REVIEWED BY		UPN 4199	
		10:19:22 AM ngutierrez	CHECKED BY			

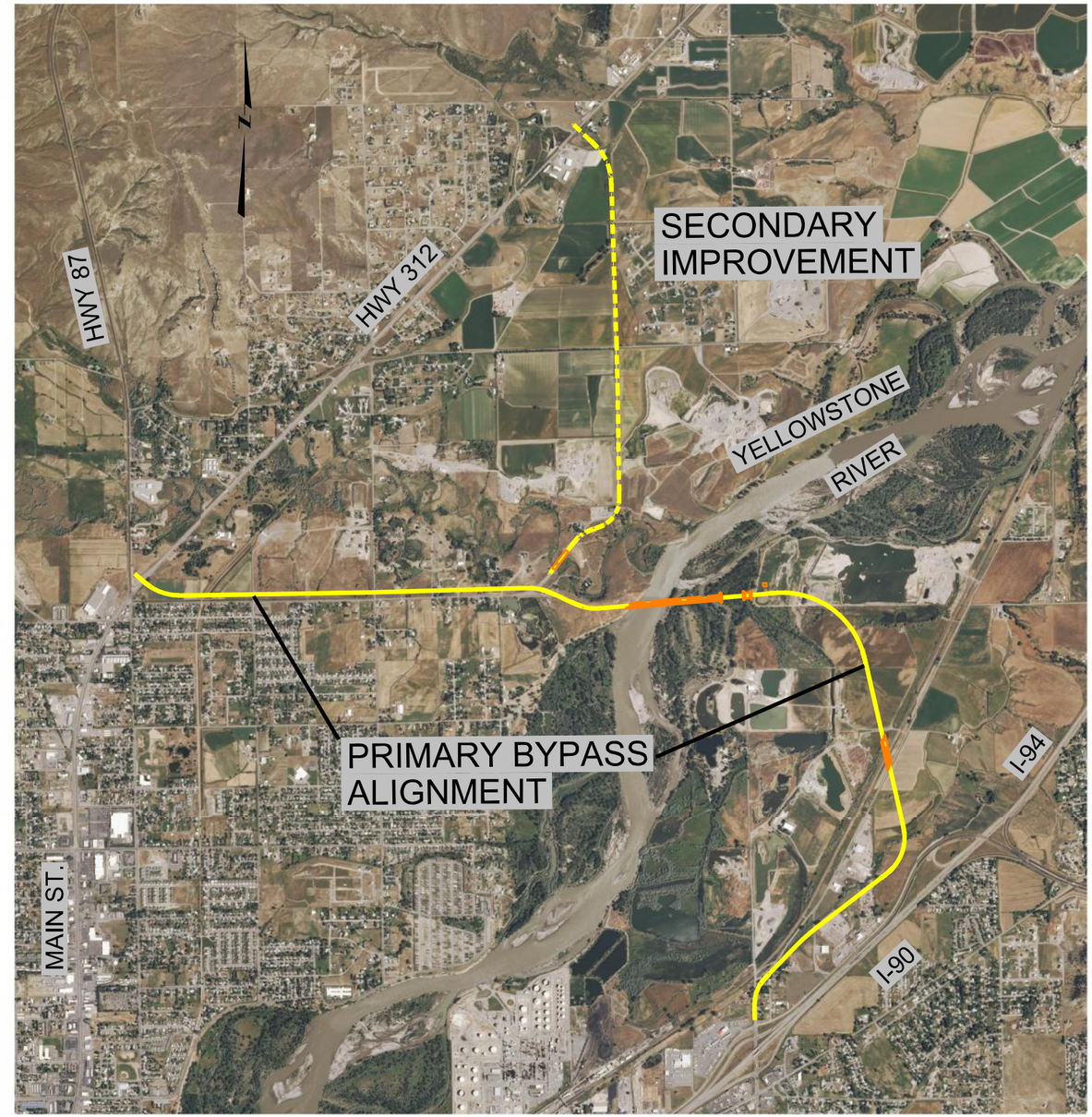
TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
MARY ST OPTION 1 KEY MAP	2
MARY ST OPTION 2 KEY MAP	3
FIVE MILE RD KEY MAP	3
TYPICAL SECTIONS	4-6
EARTHWORK SUMMARY	7
PLAN & PROFILE	
MARY ST OPTION 1	M1-1 - M1-10
MARY ST OPTION 1, SECONDARY	M1-11 - M1-14
MARY ST OPTION 1, CURVE ALT	M1-15 - M1-16
MARY ST OPTION 2	M2-1 - M2-11
MARY ST OPTION 2, SECONDARY	M2-12 - M2-14
MARY ST OPTION 2, CURVE ALT	M2-15 - M2-16
FIVE MILE RD	F-1 - F-9
FIVE MILE RD, SECONDARY	F-10 - F-15
FIVE MILE RD, CURVE ALT	F-16 - F-17

CROSS SECTIONS	SHEET NO.
MARY ST OPTION 1	M1-1 - M1-85
MARY ST OPTION 1, SECONDARY	M1-86 - M1-117
MARY ST OPTION 2	M2-1 - M2-87
MARY ST OPTION 2, SECONDARY	M2-88 - M2-108
FIVE MILE RD	F-1 - F-77
FIVE MILE RD, SECONDARY	F-86 - F-119

MARY ST OPTION 1 ALIGNMENT ALTERNATIVE KEY MAP

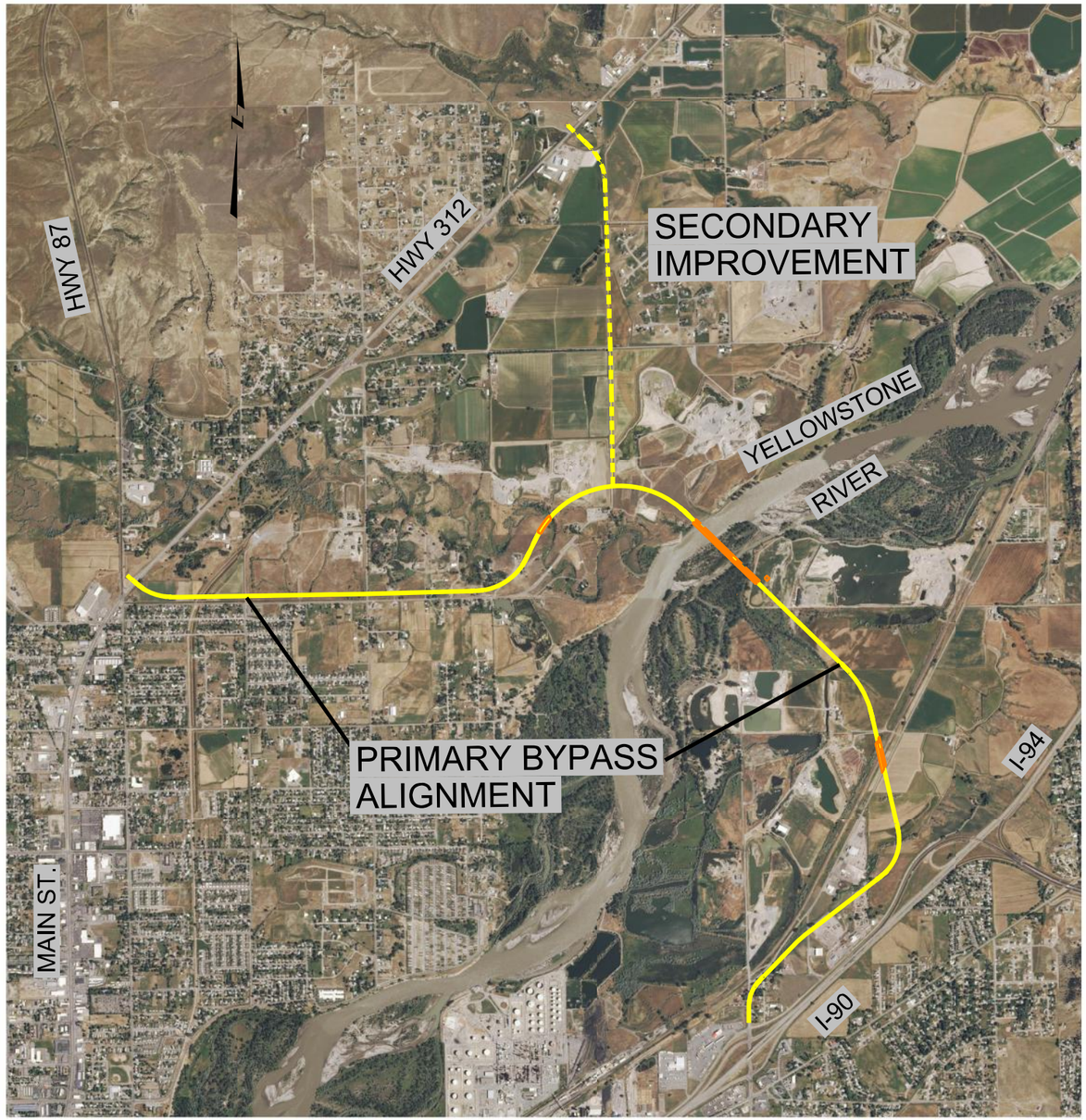
NOT TO SCALE



DOWL HKM

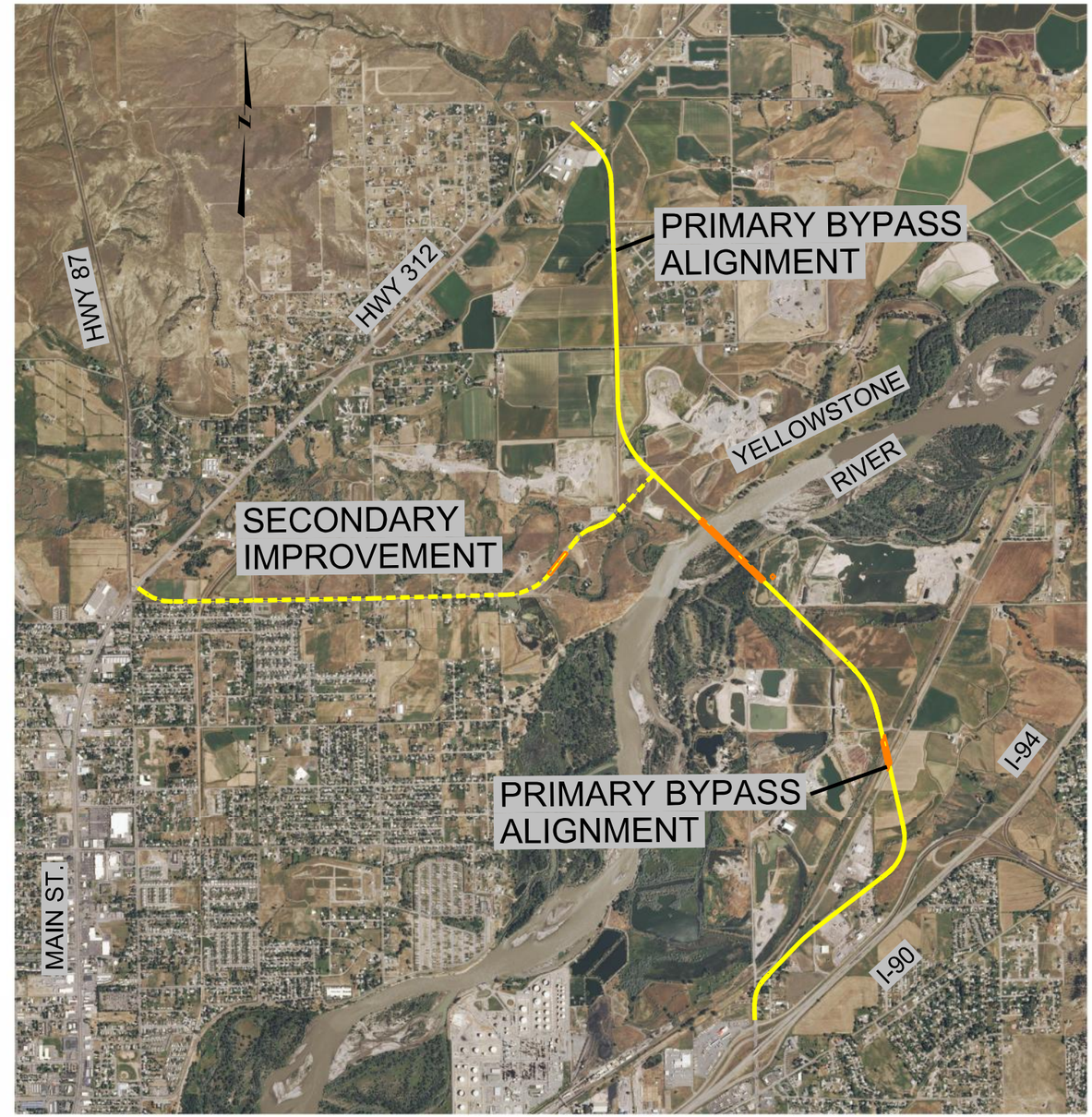
MARY ST OPTION 2
ALIGNMENT ALTERNATIVE KEY MAP

NOT TO SCALE



FIVE MILE RD
ALIGNMENT ALTERNATIVE KEY MAP

NOT TO SCALE

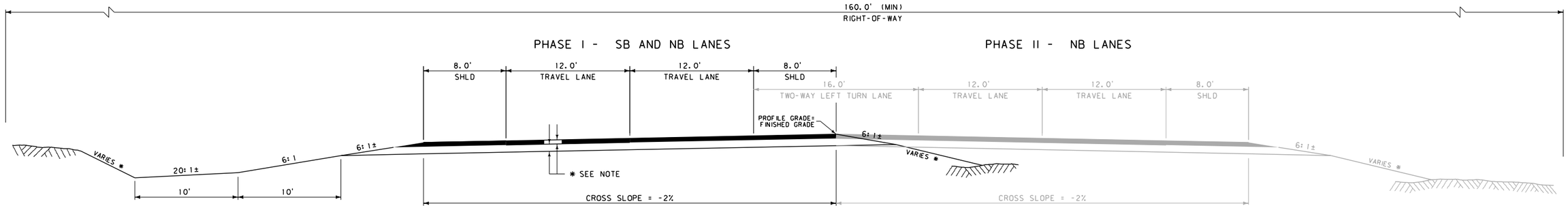


DOWL HKM

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTTLZ01.dgn	DESIGNED BY			ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
		8/23/2013	REVIEWED BY						
1		10:21:48 AM ngutierrez	CHECKED BY			YELLOWSTONE COUNTY		UPN 4199	SHEET 3

NHS URBAN PRINCIPAL ARTERIAL PRIMARY

DESIGN SPEED: 55 MPH

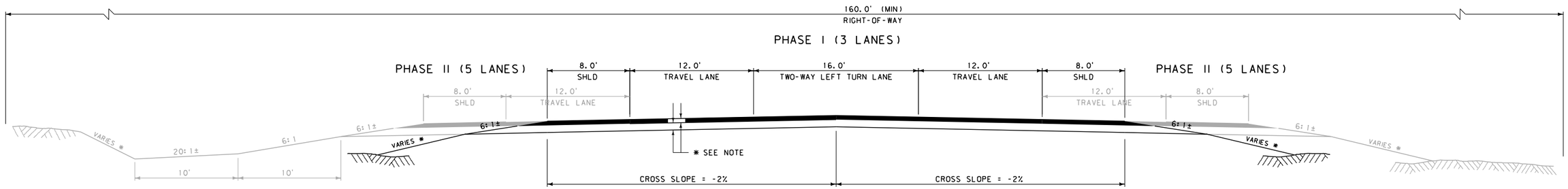


* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

NHS URBAN PRINCIPAL ARTERIAL PRIMARY

DESIGN SPEED: 55 MPH

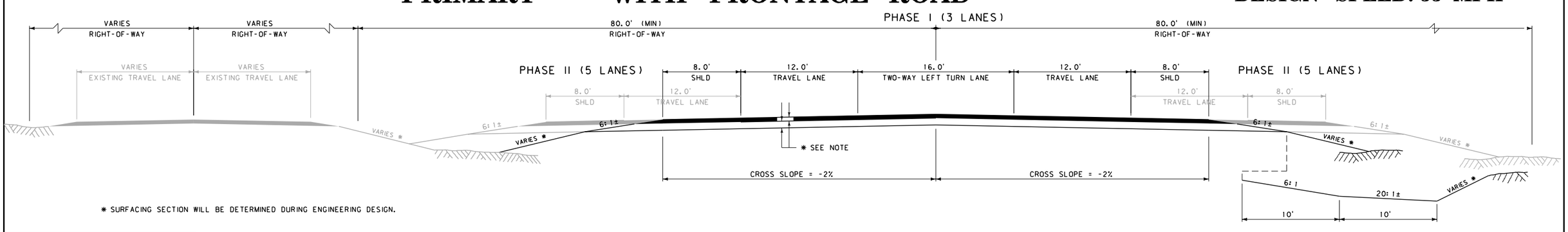


* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

NHS URBAN PRINCIPAL ARTERIAL PRIMARY – WITH FRONTAGE ROAD

DESIGN SPEED: 55 MPH



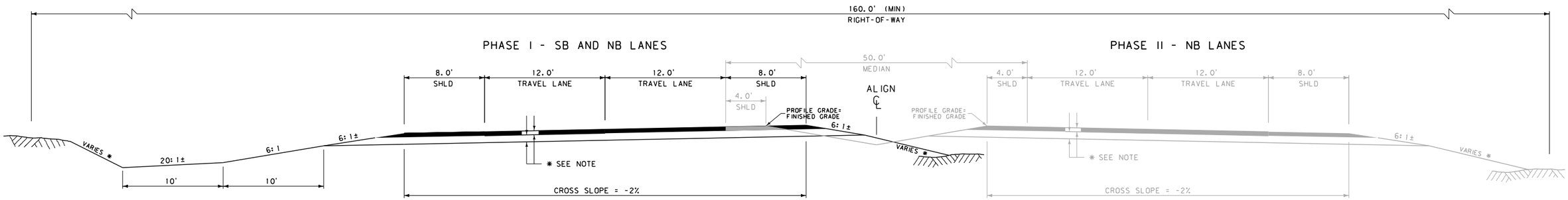
* SURFACING SECTION WILL BE DETERMINED DURING ENGINEERING DESIGN.

DOWL HKM

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTYPZ01.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY					
1		10:58:40 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET 4

NHS URBAN PRINCIPAL ARTERIAL
MARY ST – PRIMARY

DESIGN SPEED: 55 MPH

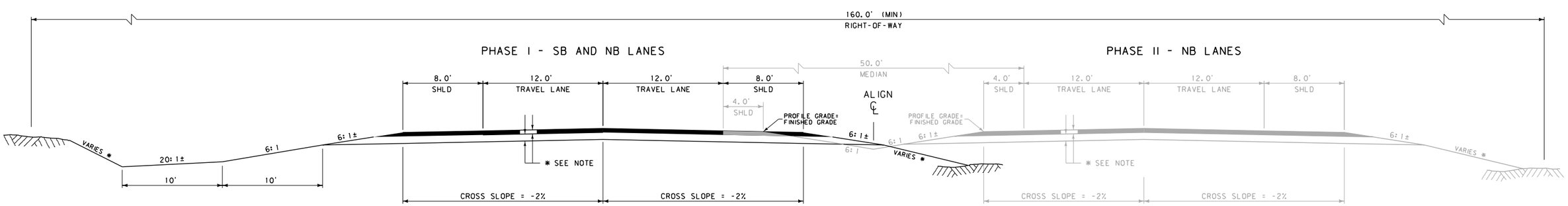


* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

NHS RURAL PRINCIPAL ARTERIAL
FIVE MILE RD – PRIMARY

DESIGN SPEED: 70 MPH (FLAT TERRAIN), 60 MPH (ROLLING TERRAIN)



* SURFACING SECTION WILL BE DETERMINED DURING ENGINEERING DESIGN.

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTYPZ01.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY					
1		10:58:48 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET 5

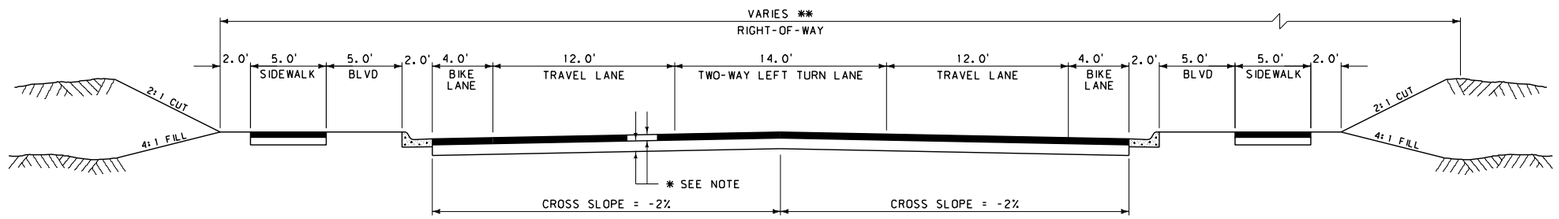
DOWL HKM

URBAN SECONDARY COLLECTOR
MARY ST – SECONDARY

DESIGN SPEED: 45 MPH

CITY OF BILLINGS – PRINCIPAL ARTERIAL

PHASE I



** PER CURRENT CITY OF BILLINGS SUBDIVISION REGULATIONS:
PRINCIPAL ARTERIAL = 130'
MINOR ARTERIAL = 100'

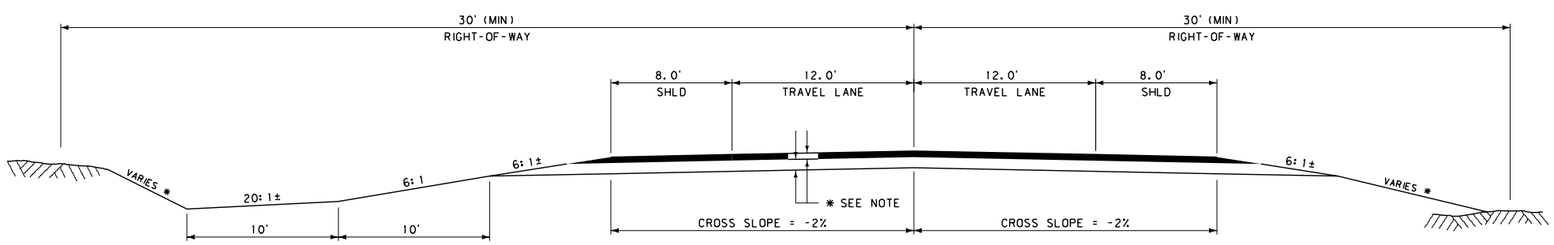
* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

RURAL SECONDARY COLLECTOR
FIVE MILE RD – SECONDARY

DESIGN SPEED: 60 MPH
(FLAT TERRAIN)

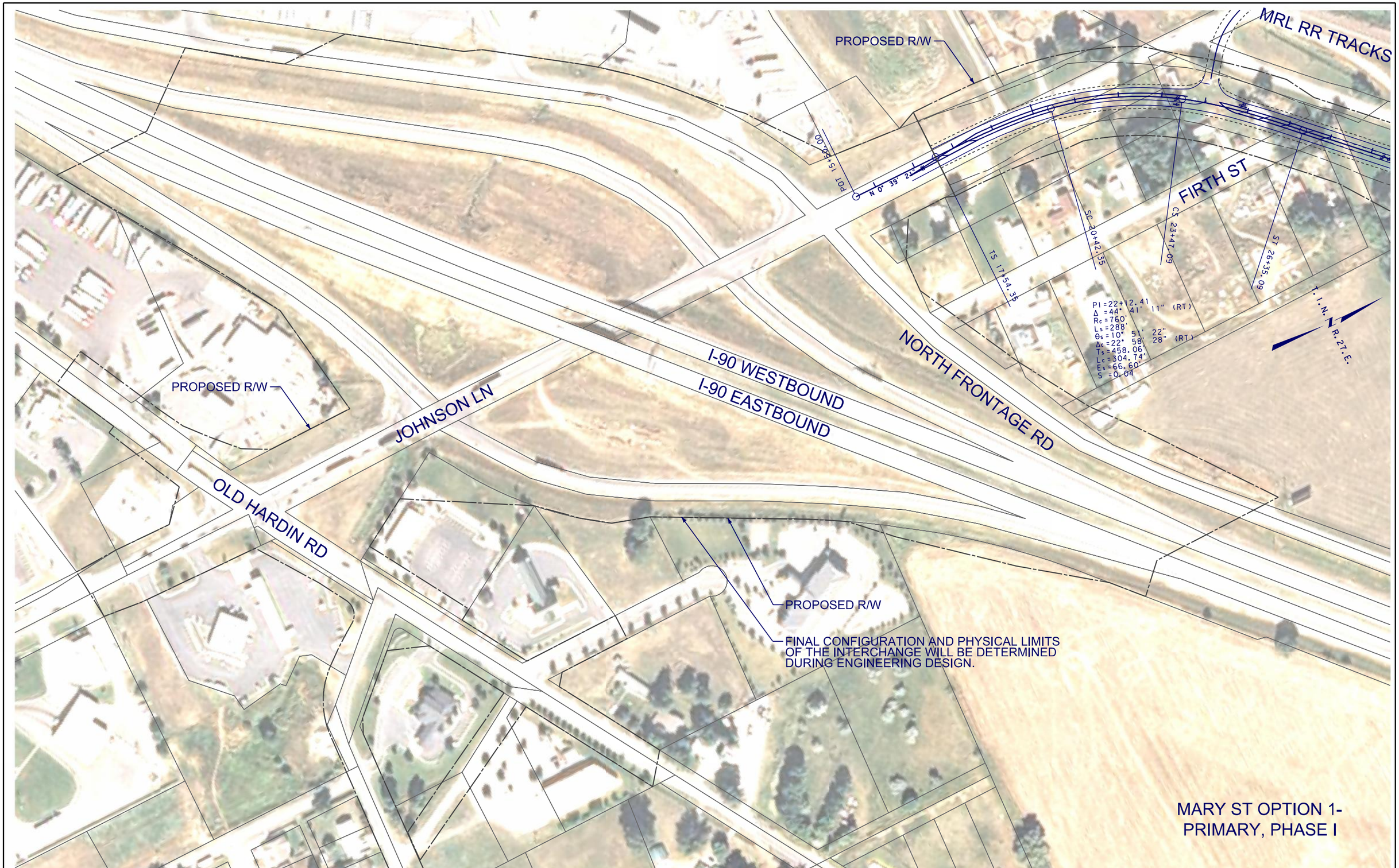
PHASE I



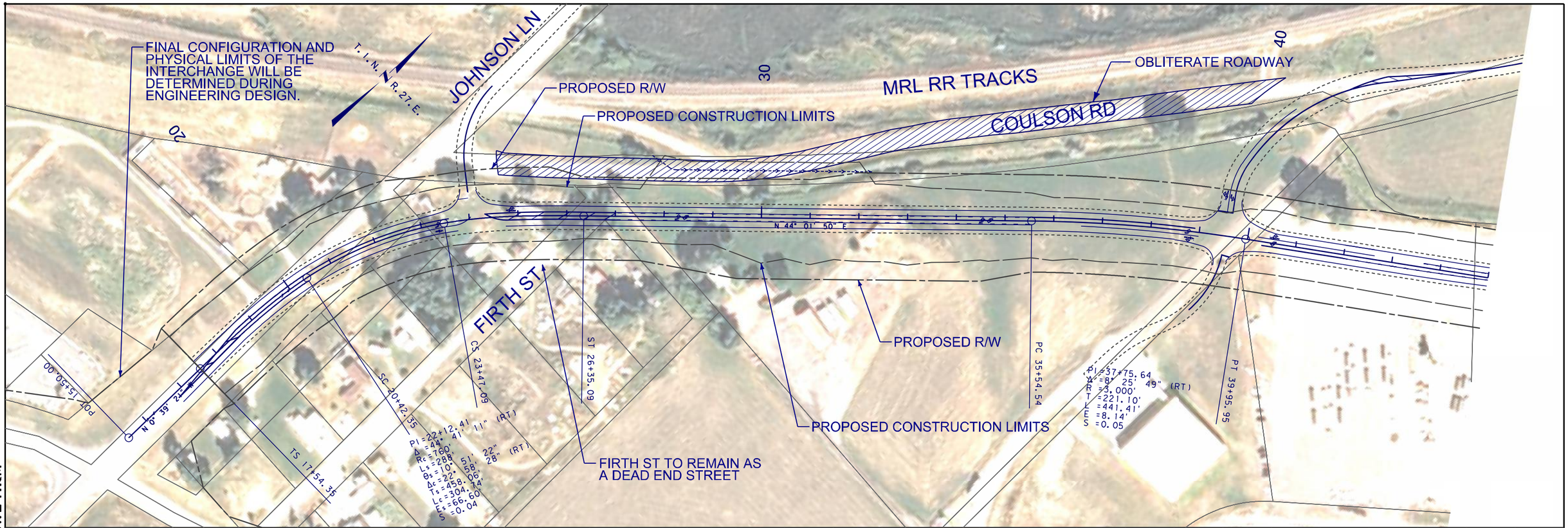
* SURFACING SECTION WILL BE DETERMINED DURING ENGINEERING DESIGN.

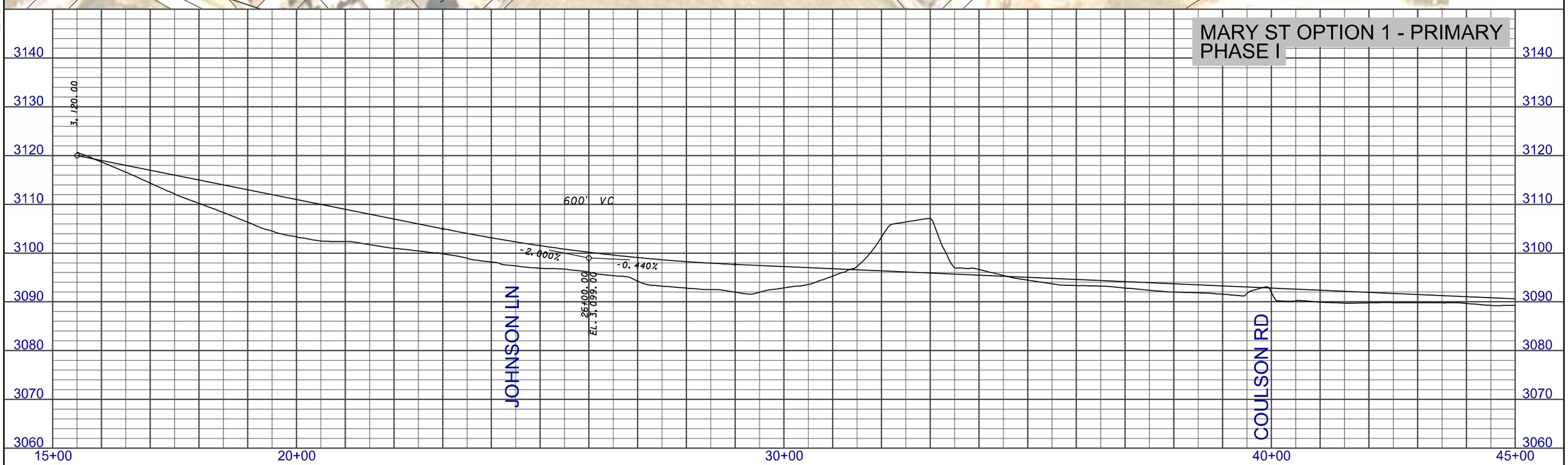
DOWL HKM

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTYPZ01.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY					
1		10:58:57 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET 6

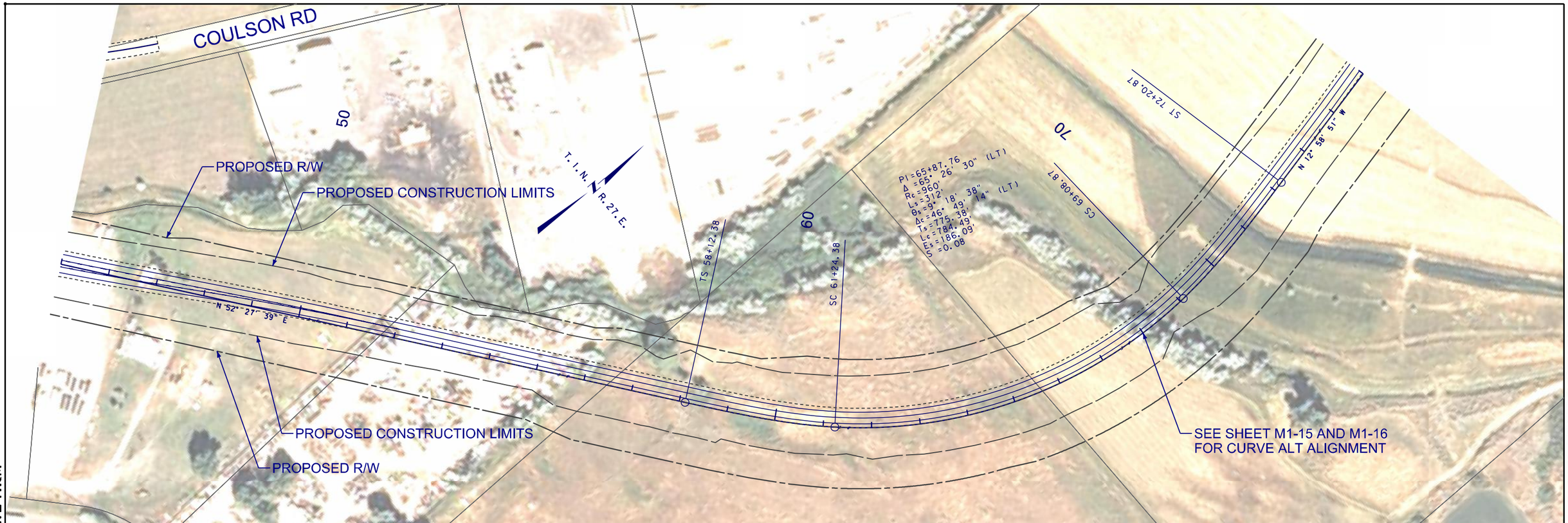


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplnZ01_M1.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY					
		11:04:34 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M1-1

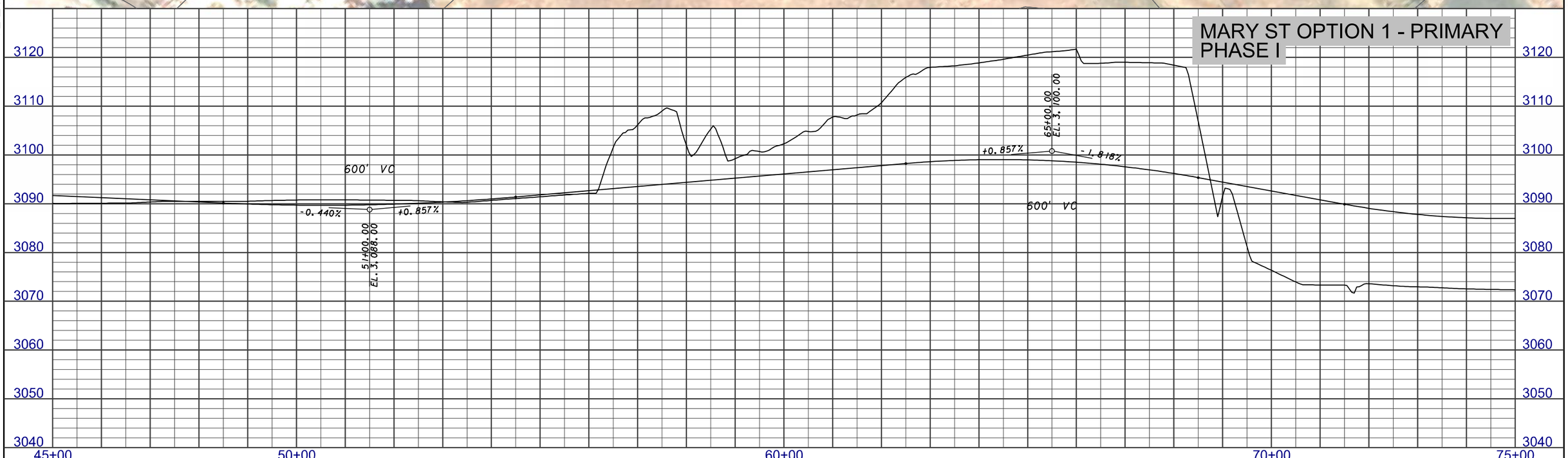




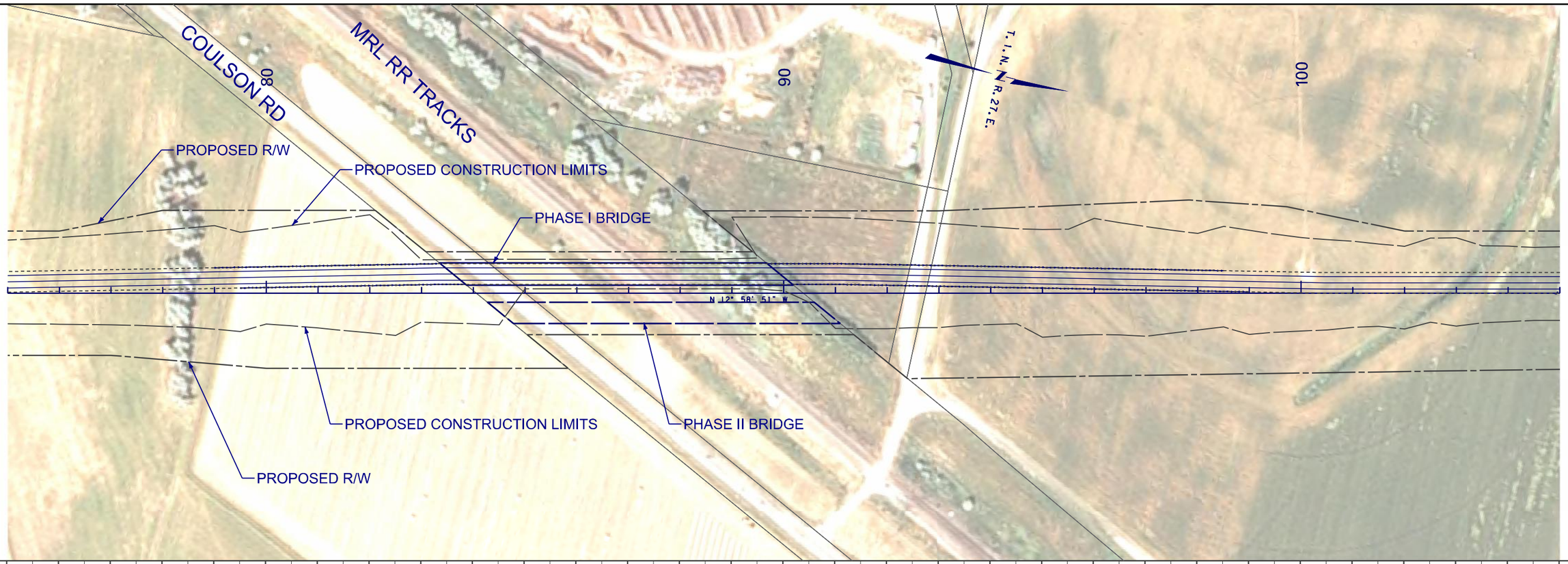
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz01_M1.dgn 8/23/2013 4:08:38 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-2



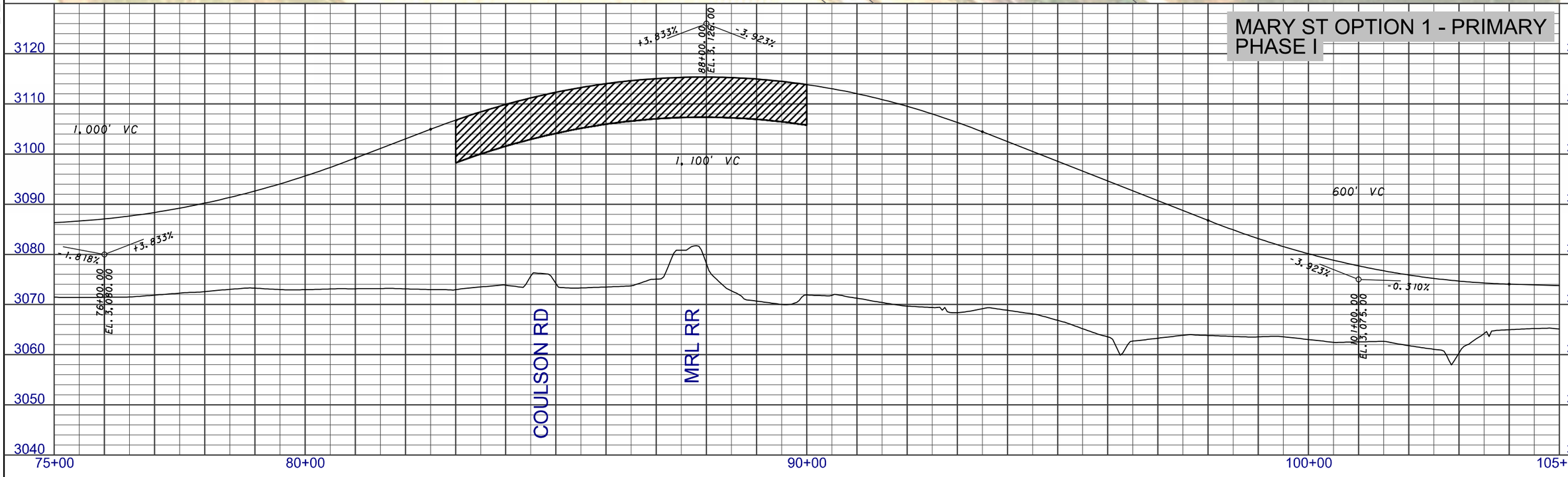
DOWL HKM



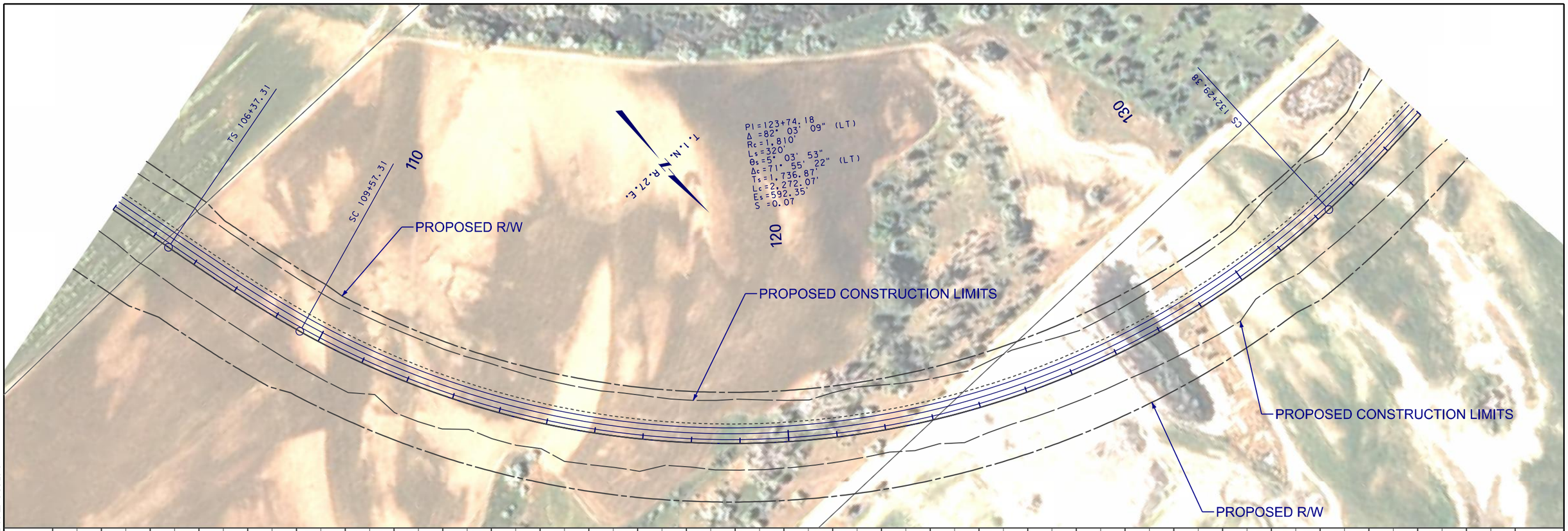
3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz01_M1.dgn 8/23/2013 4:08:56 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-3



MARY ST OPTION 1 - PRIMARY
PHASE I

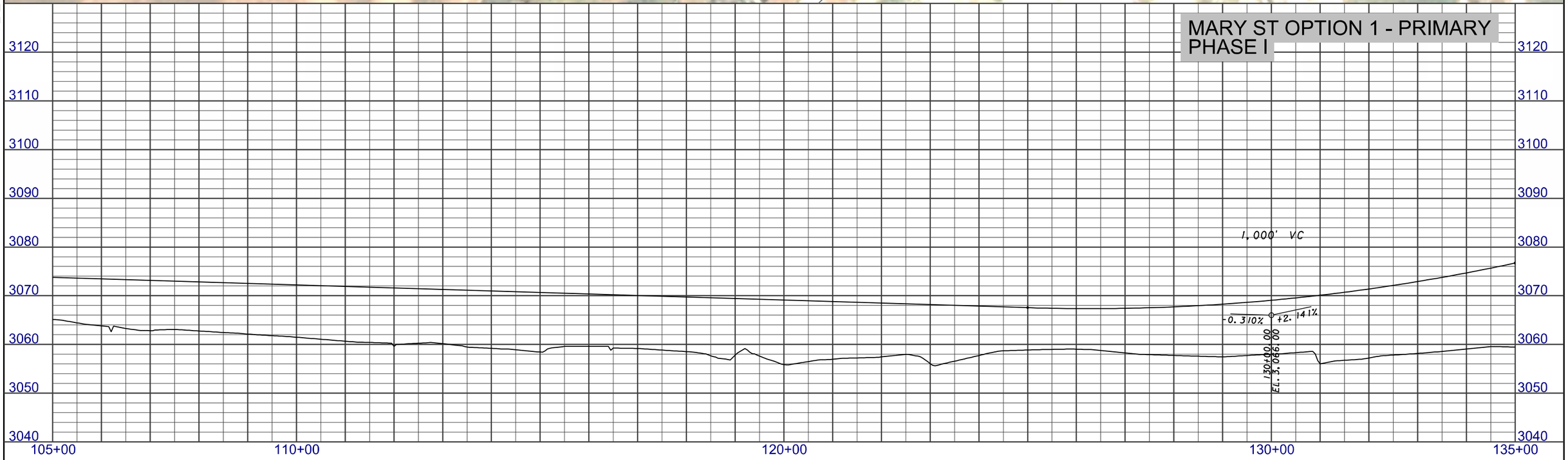


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz01_M1.dgn 8/23/2013 4:09:14 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-4

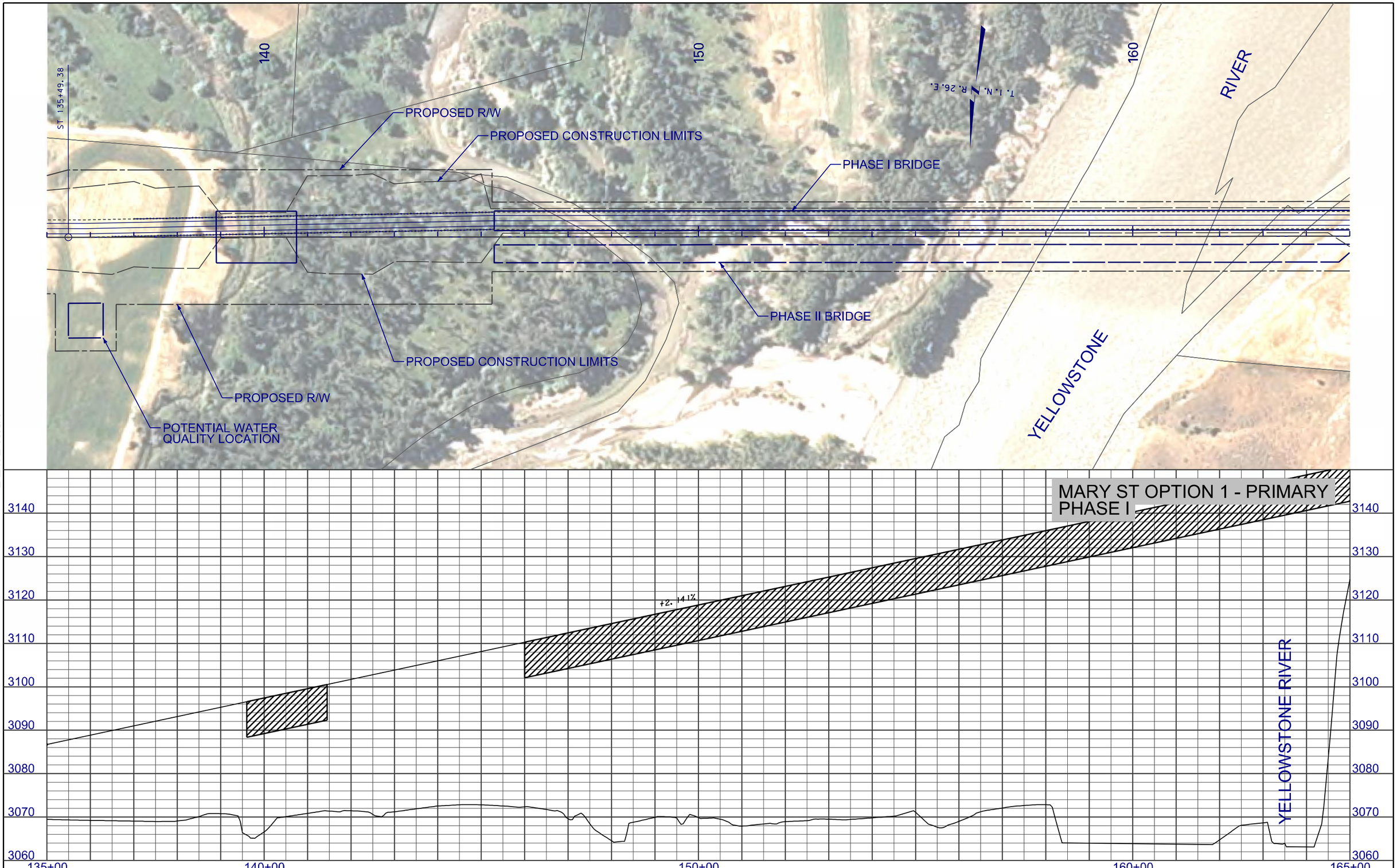


DOWL HKM

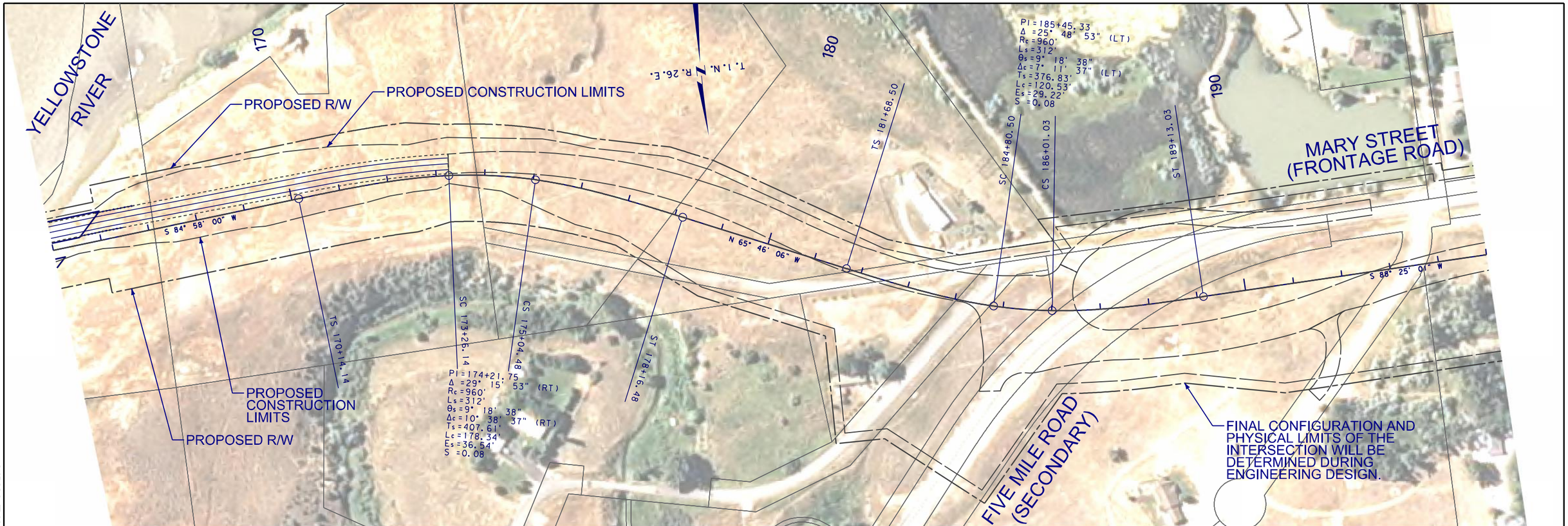
MARY ST OPTION 1 - PRIMARY
PHASE I

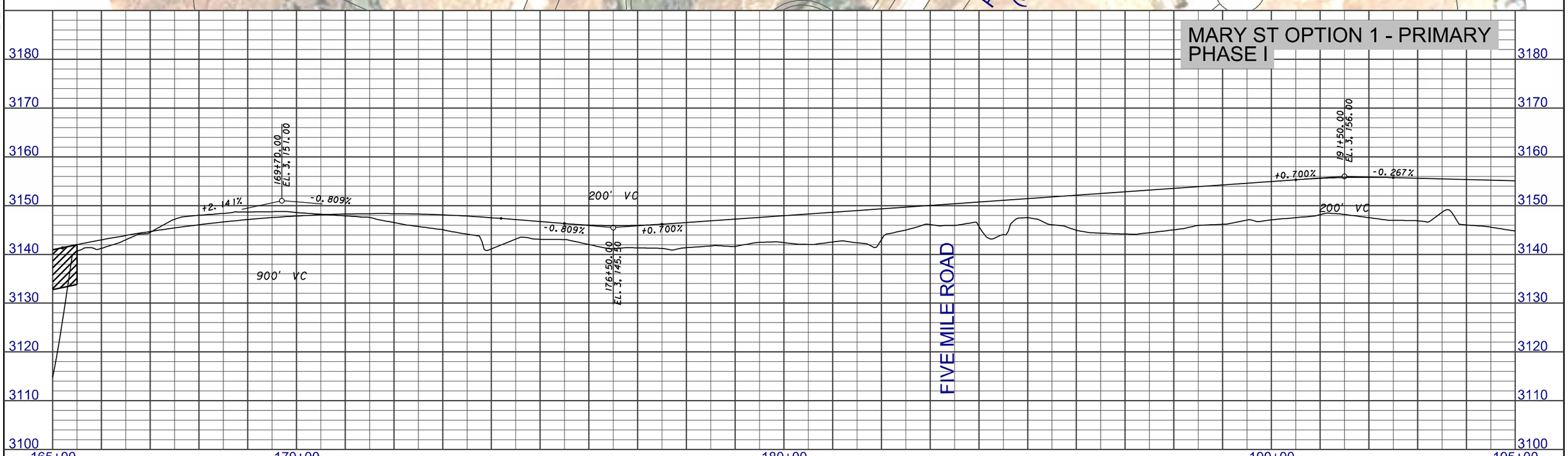


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz02_M1.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS - BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET M1-5
		11:13:32 AM ngutierrez	CHECKED BY				

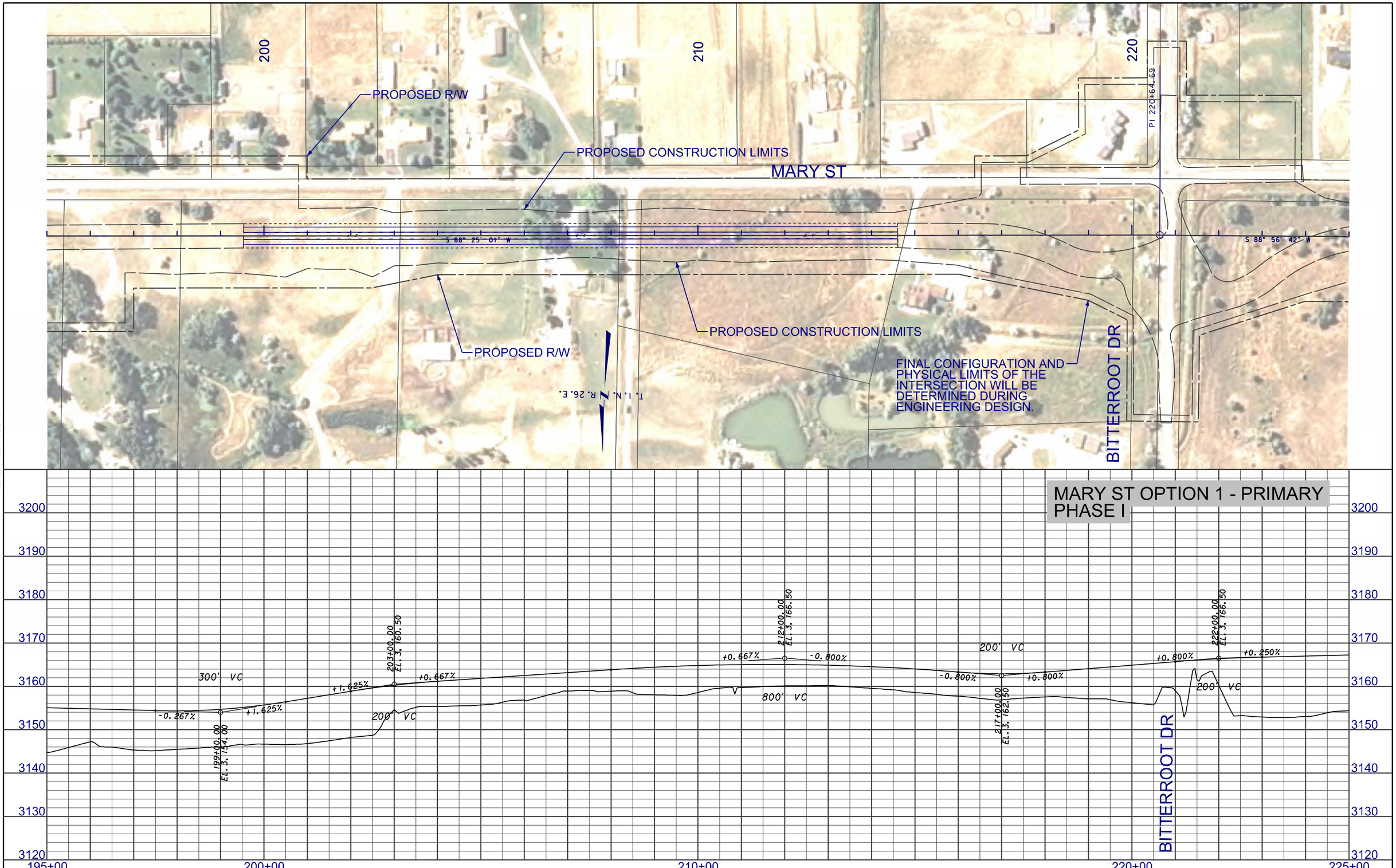


3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz02_M1.dgn 8/19/2013 11:13:49 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-6

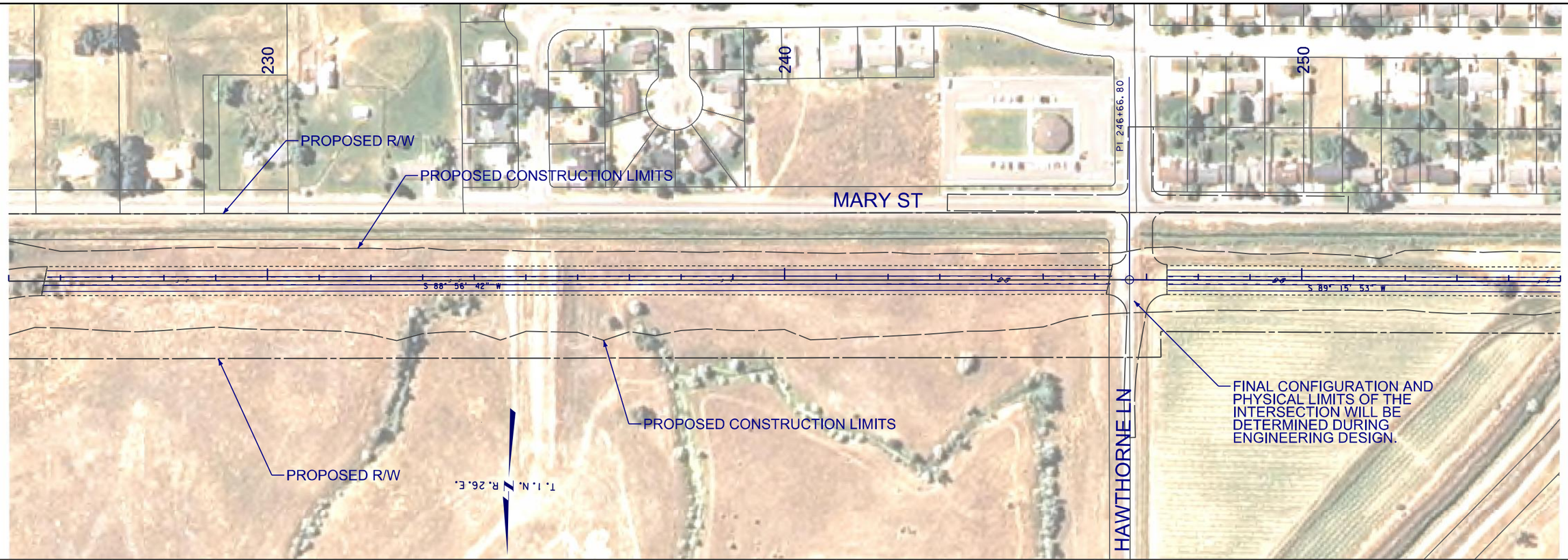




2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz02_M1.dgn 8/19/2013 11:14:06 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-7

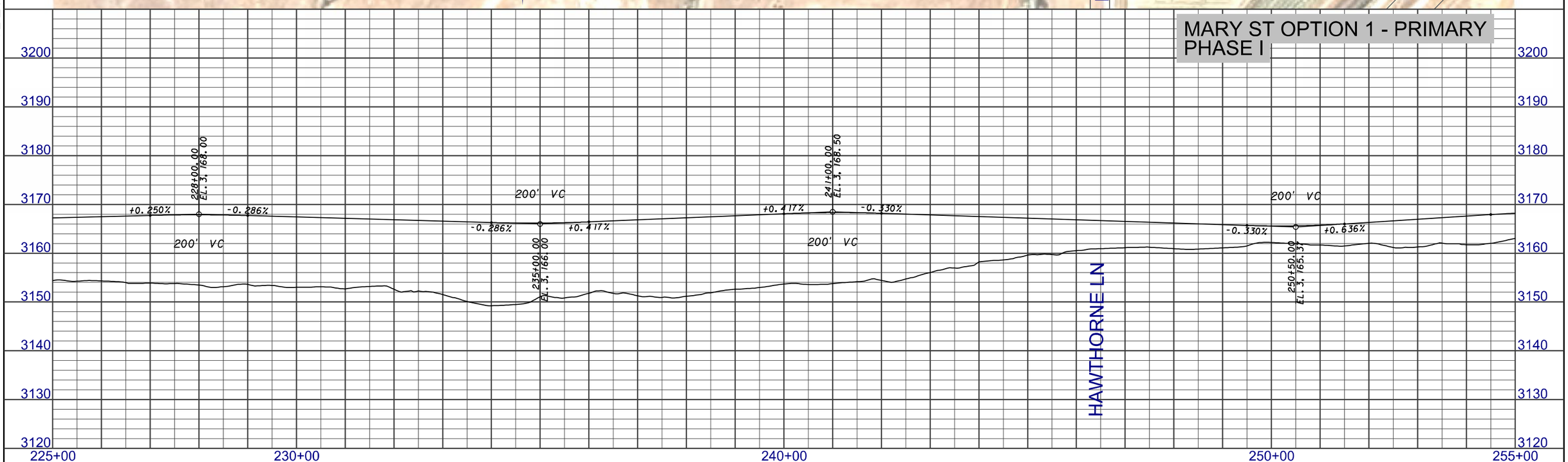


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz03_M1.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS - BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET M1-8
		10:43:55 AM ngutierrez	CHECKED BY				

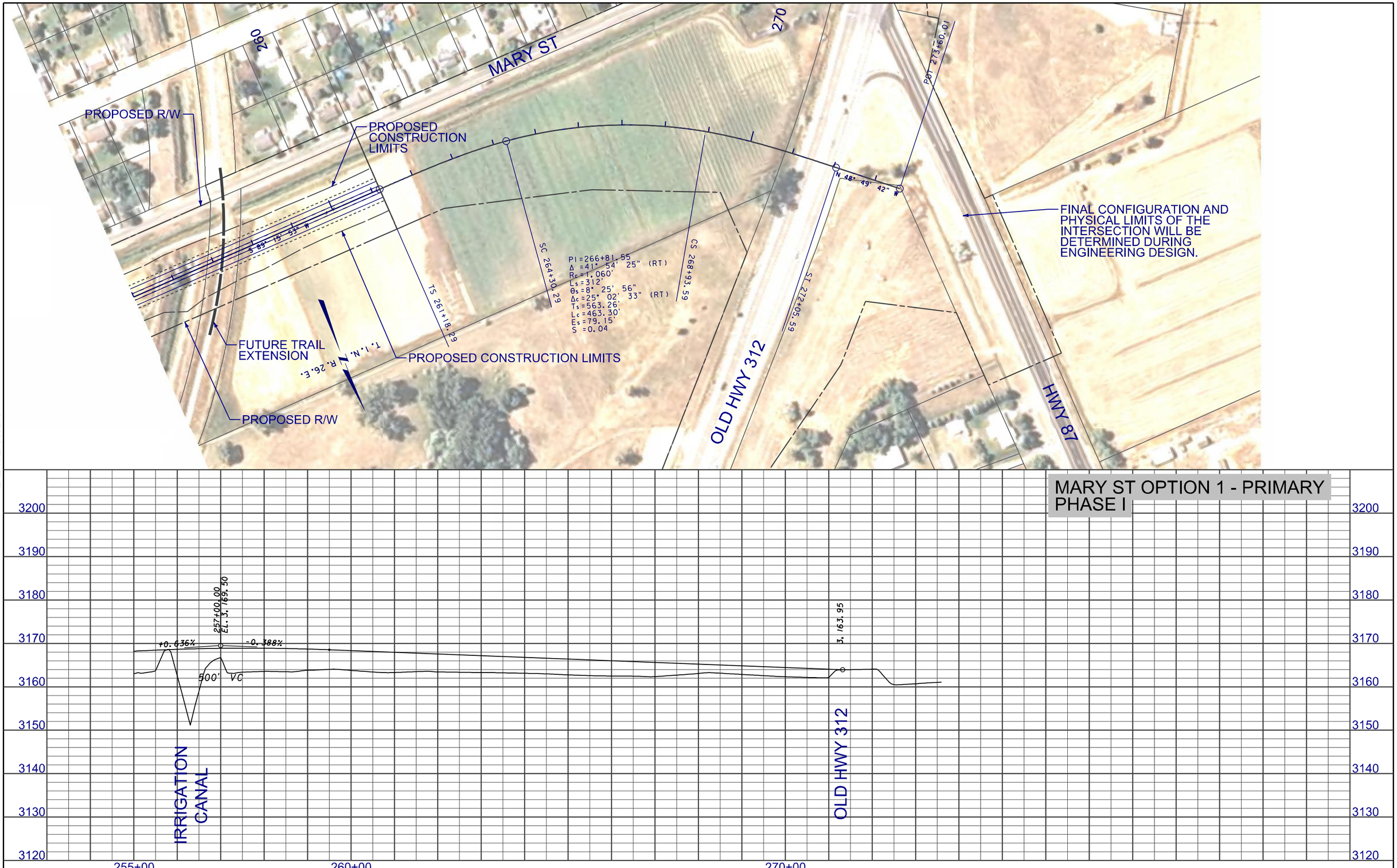


DOWL HKM

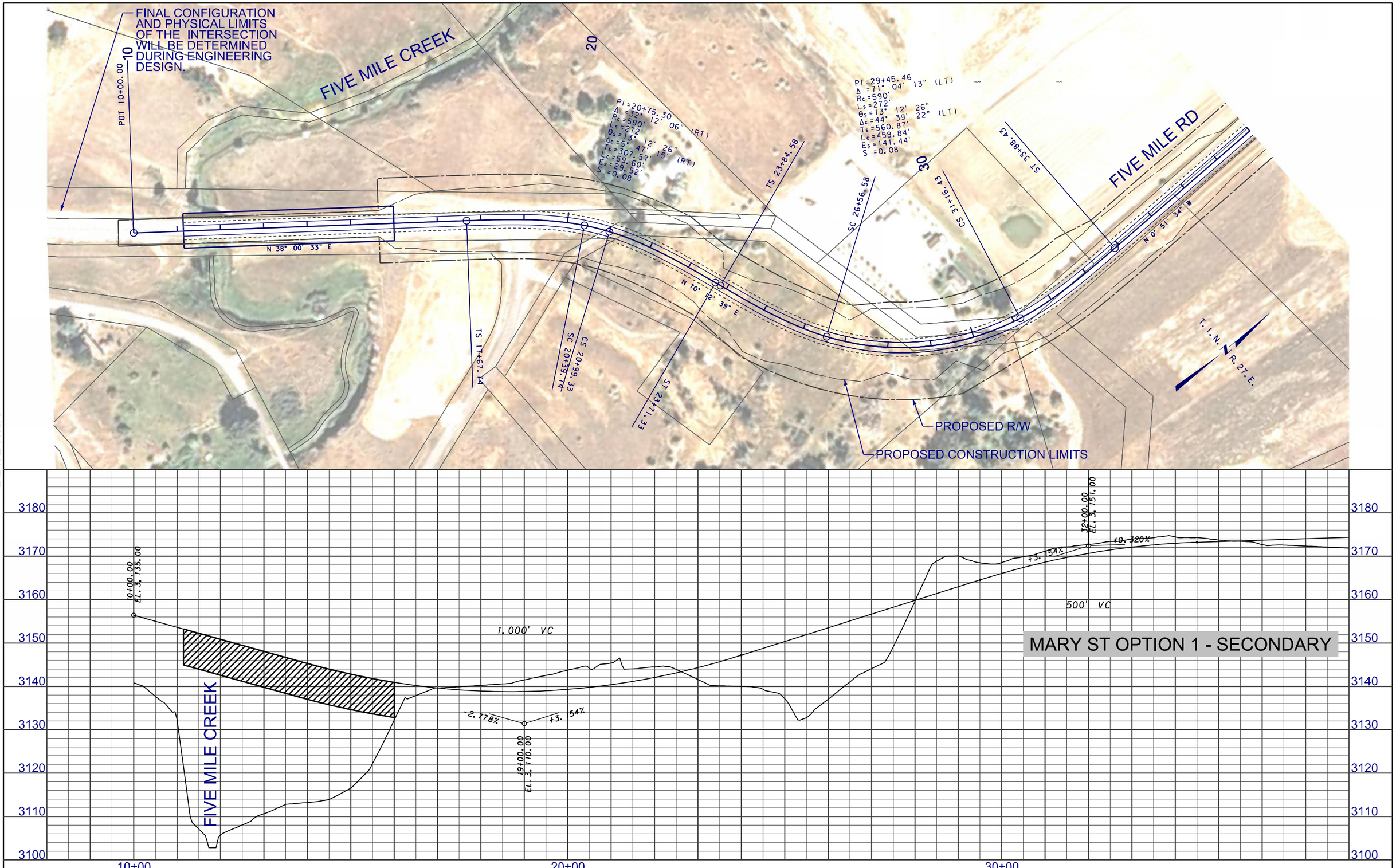
MARY ST OPTION 1 - PRIMARY PHASE I



3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz03_M1.dgn 8/23/2013 10:44:12 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-9

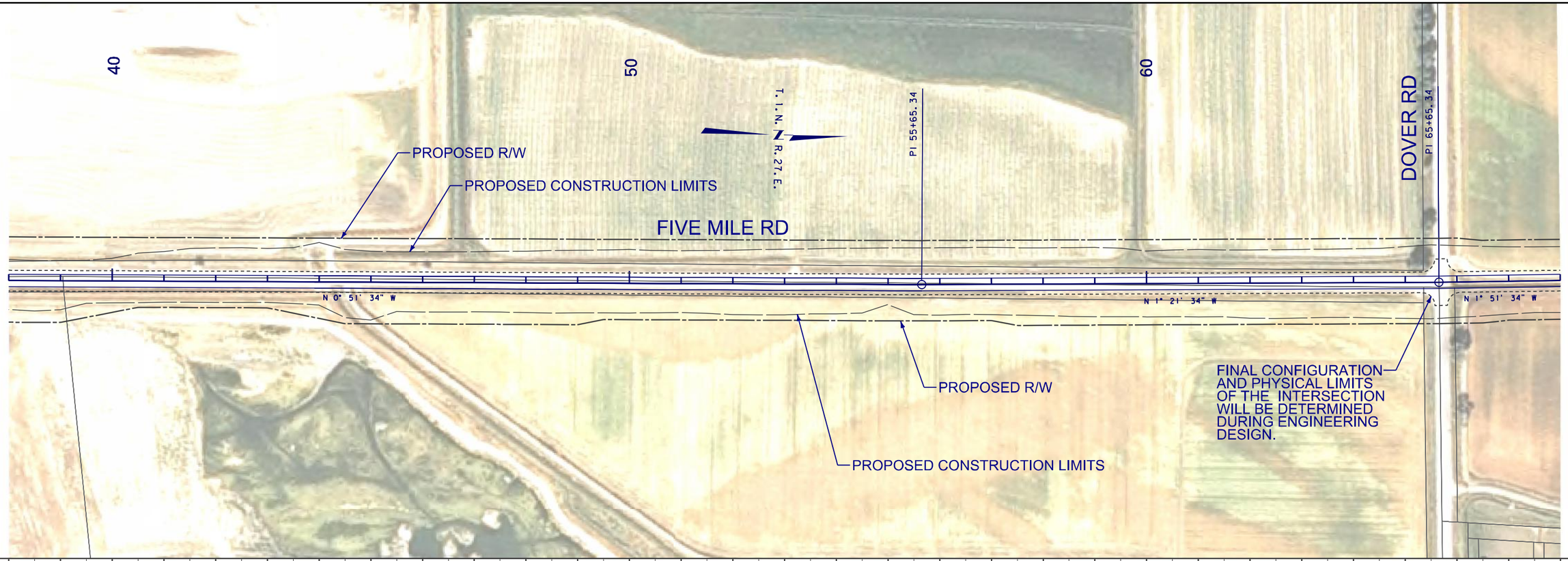


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz03_M1.dgn 8/23/2013 10:44:30 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-10

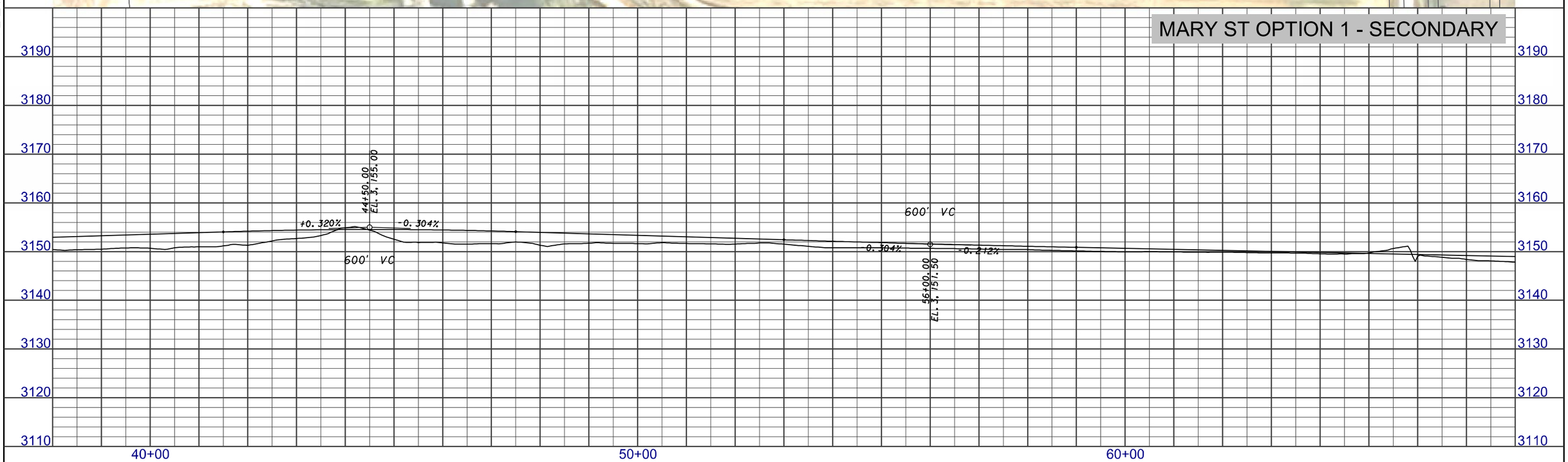


DOWL HKM

3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M1\4199rdplpz01_M1-2ND.dgn 8/19/2013 11:18:56 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-11

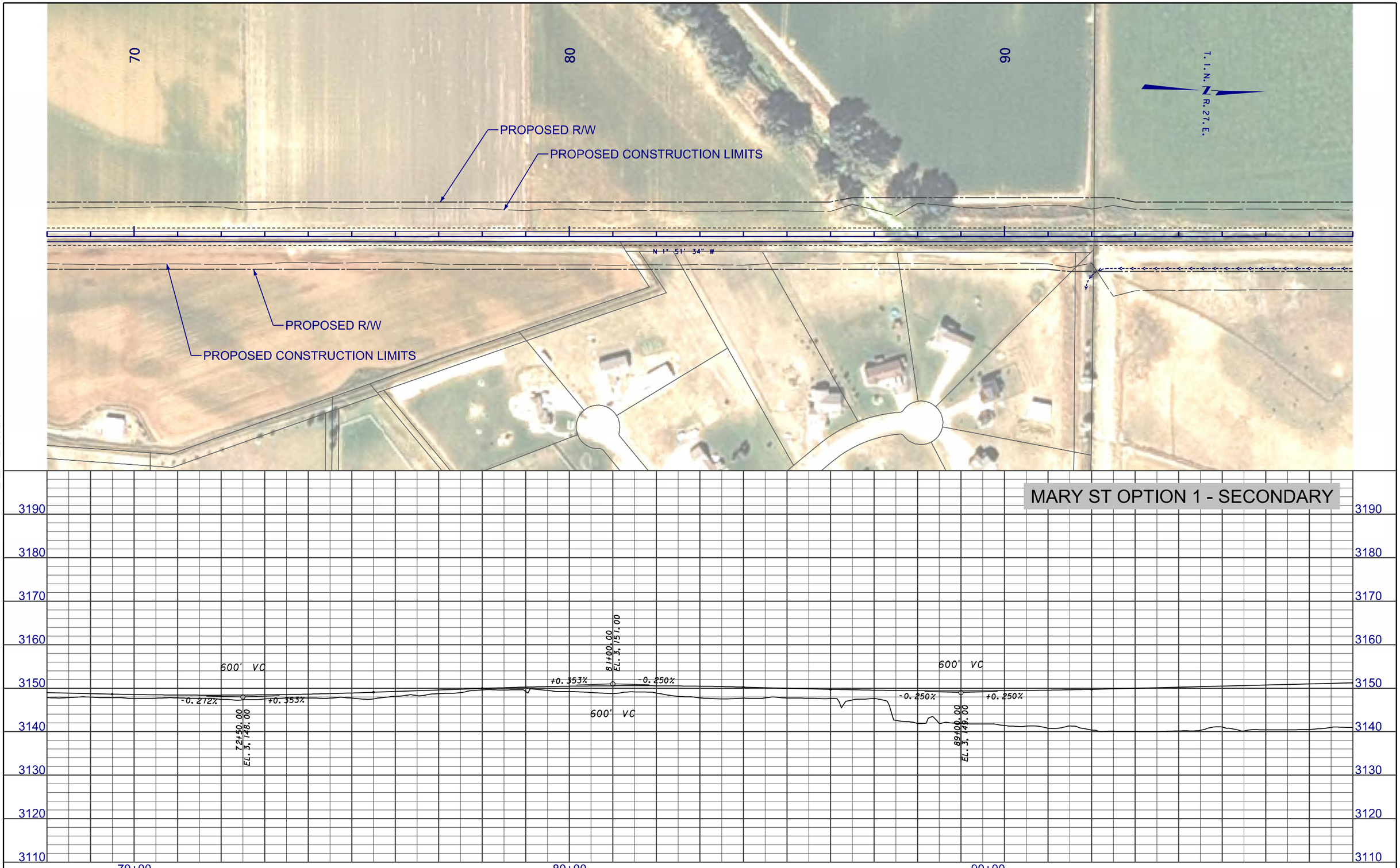


MARY ST OPTION 1 - SECONDARY

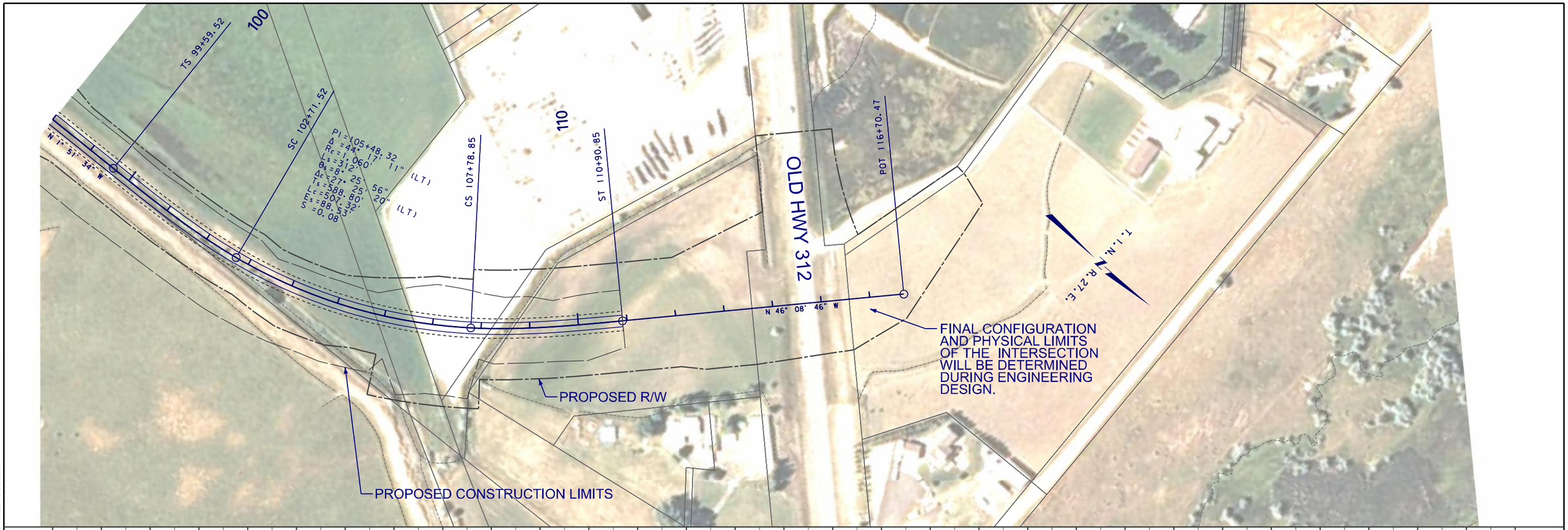


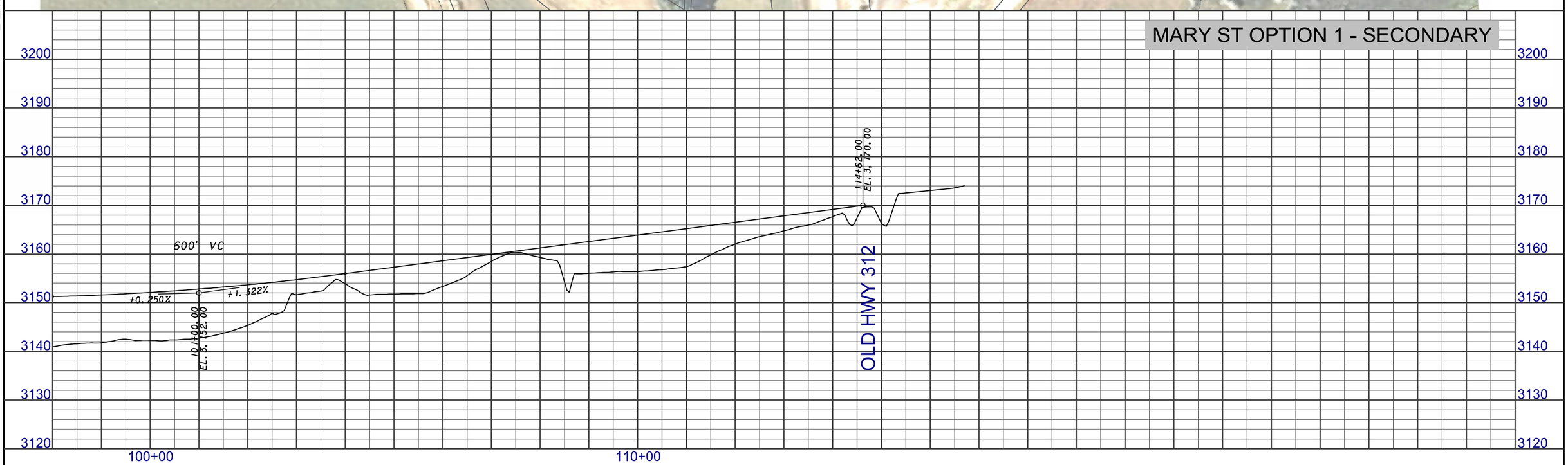
DOWL HKM

3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M1\4199rdplpz01_M1-2ND.dgn 8/19/2013 11:19:14 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-12

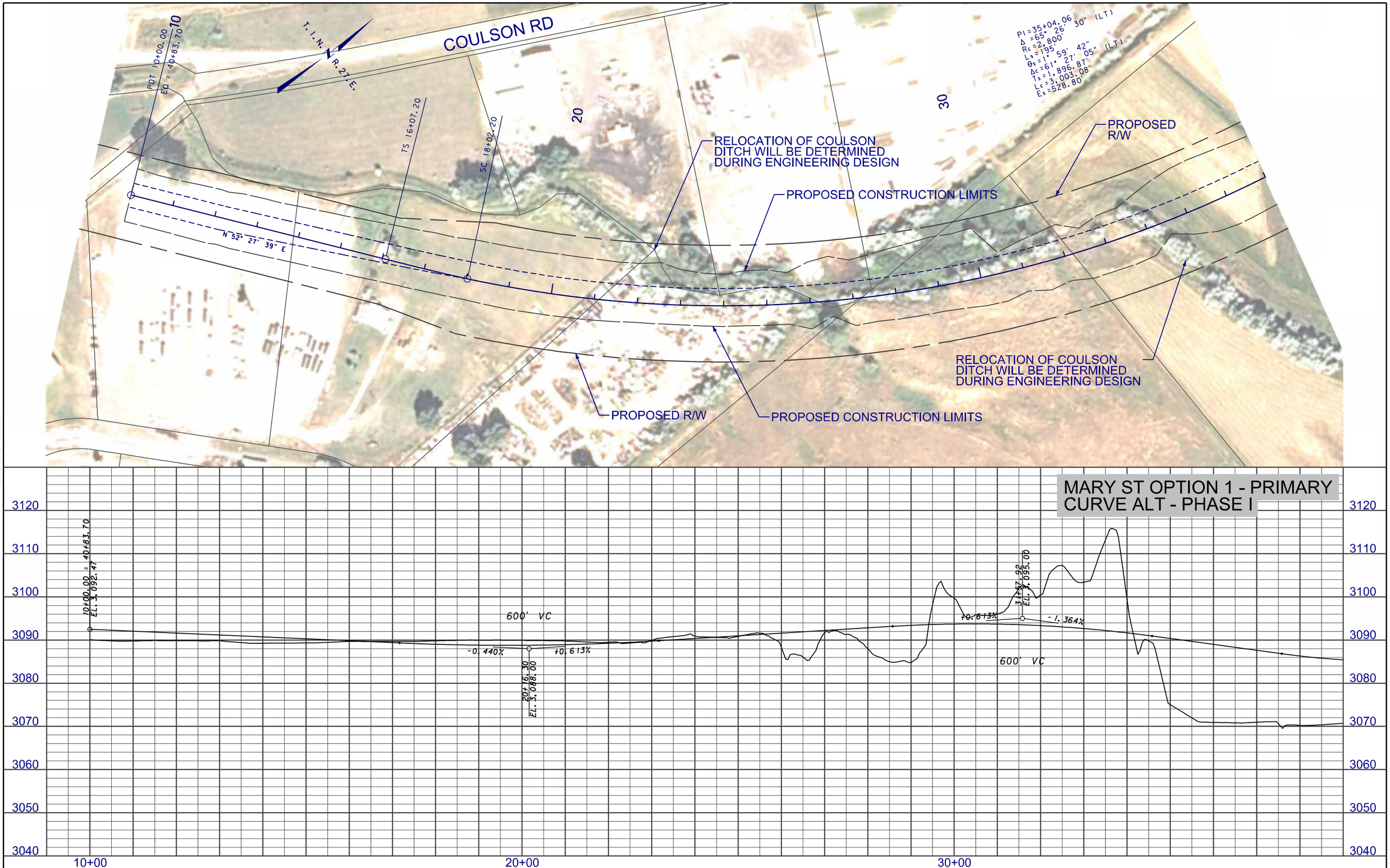


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M1\4199rdplpz01_M1-2ND.dgn 8/19/2013 11:19:31 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-13

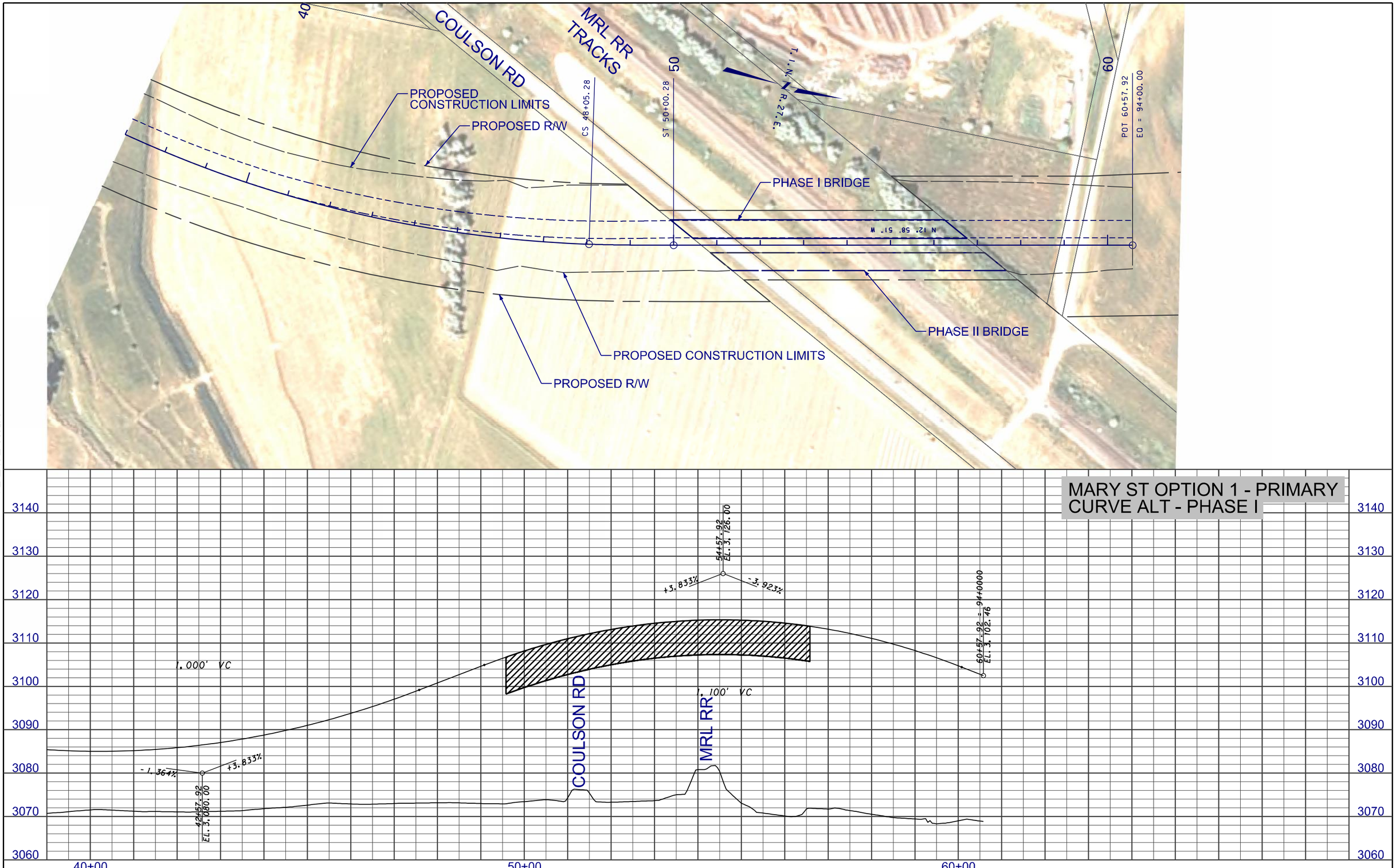




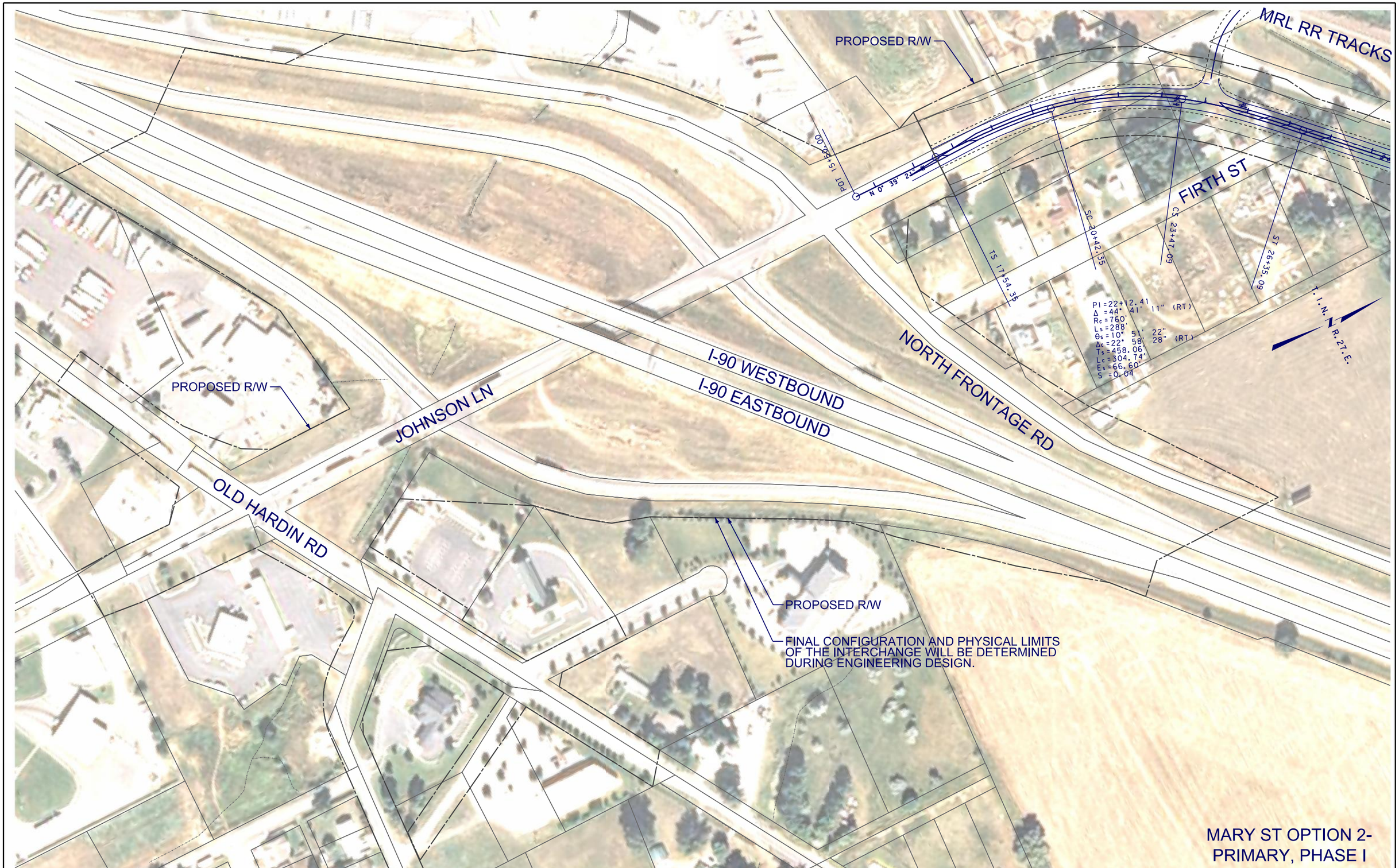
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M1\4199rdplpz02_M1-2ND.dgn 8/19/2013 11:22:07 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY
BILLINGS BYPASS EIS	UPN 4199	NCPD 56(55)	SHEET M1-14		



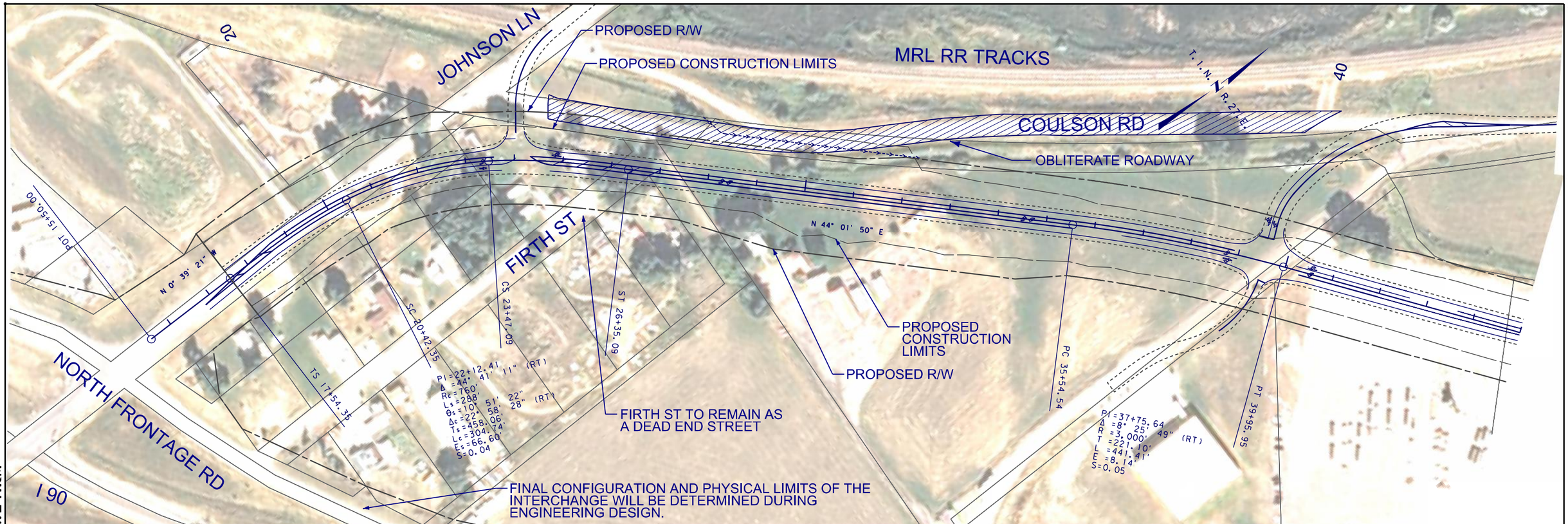
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz04_M1.dgn 8/23/2013 10:46:53 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-15



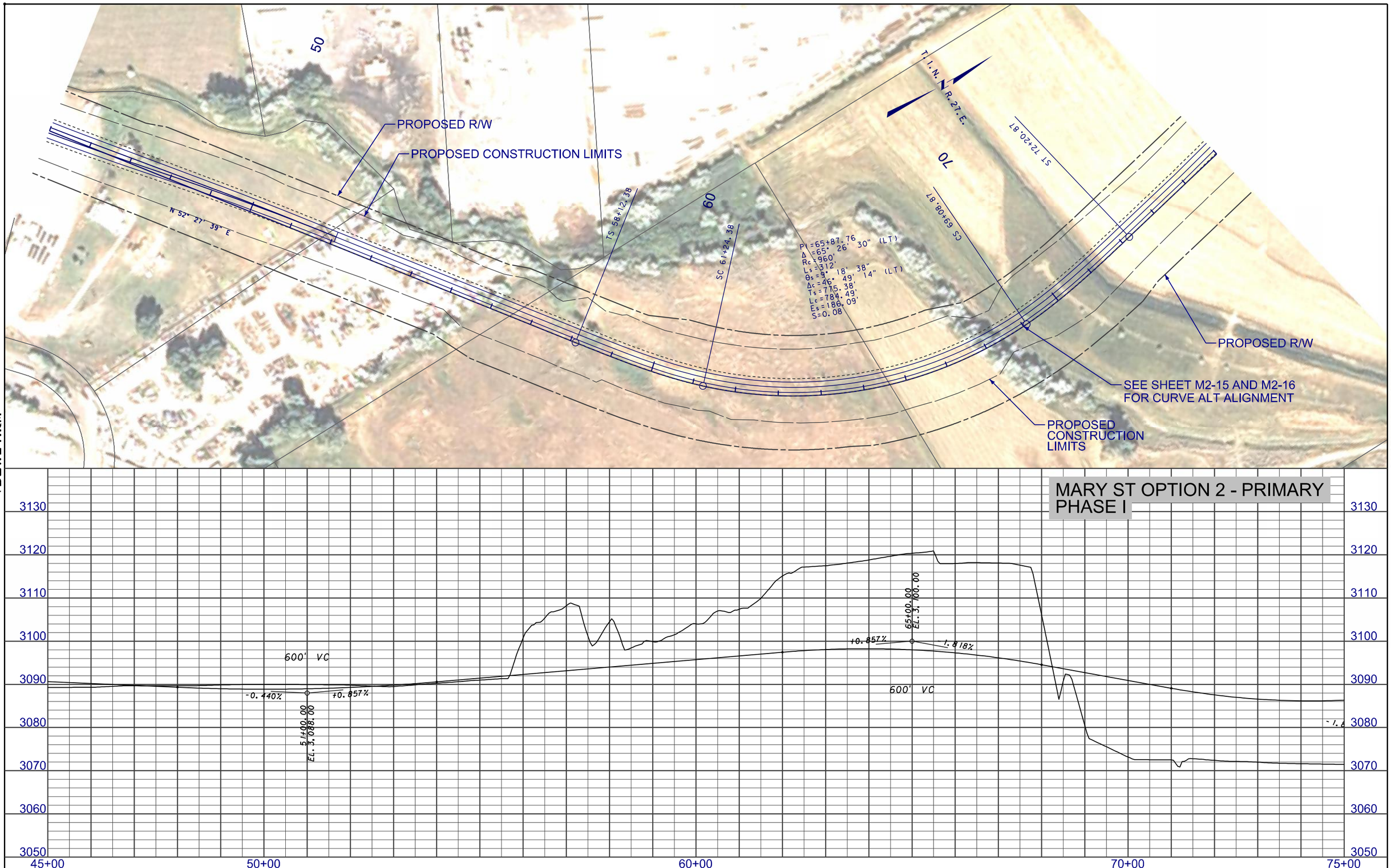
2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz04_M1.dgn 8/23/2013 10:47:11 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-16



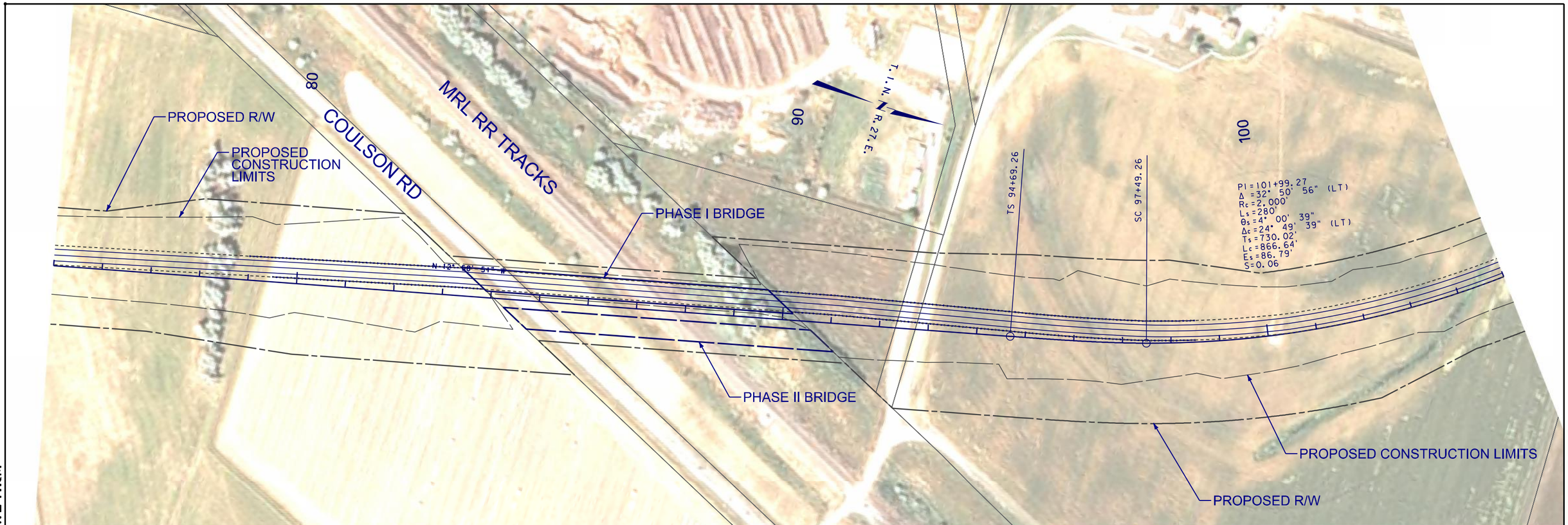
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplnZ01_M2.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY				
		11:43:02 AM ngutierrez	CHECKED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET M2-1



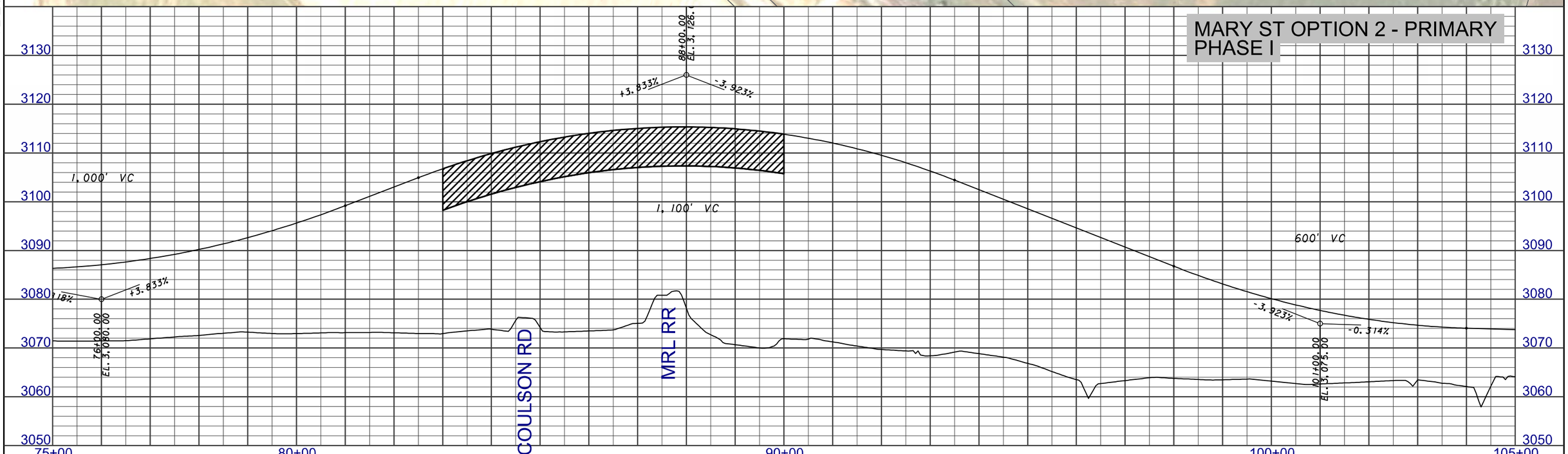
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz01_M2.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M2-2
		4:15:09 PM ngutierrez	CHECKED BY					



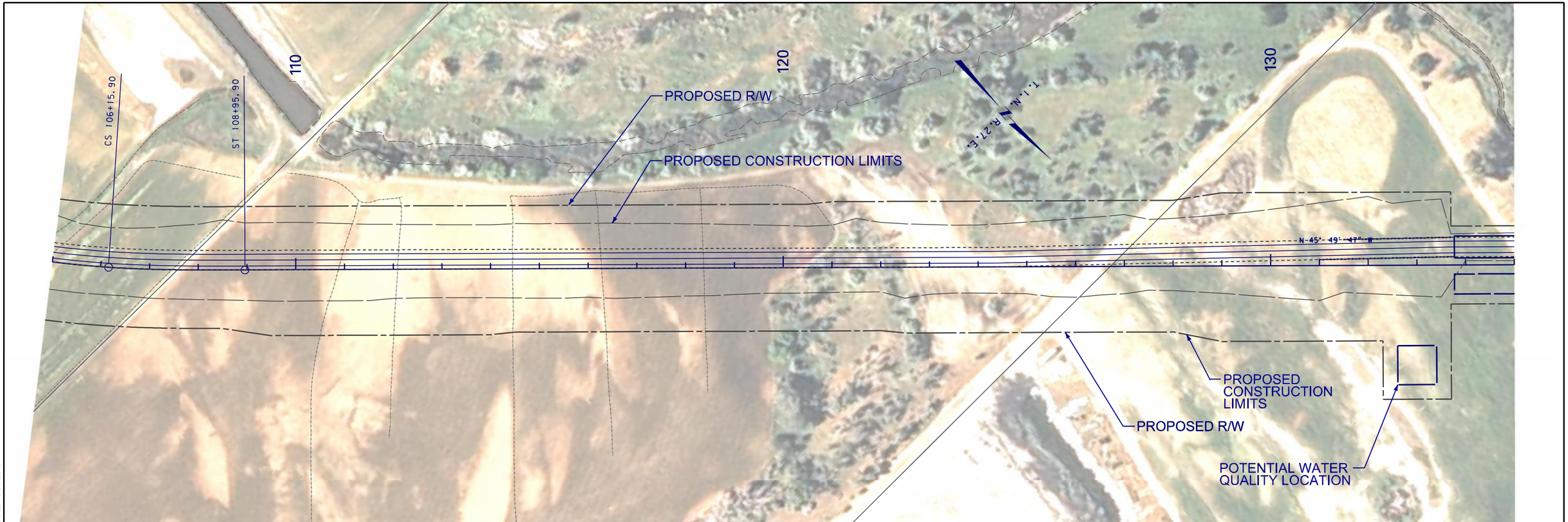
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz01_M2.dgn 8/23/2013 4:15:27 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-3



DOWL HKM

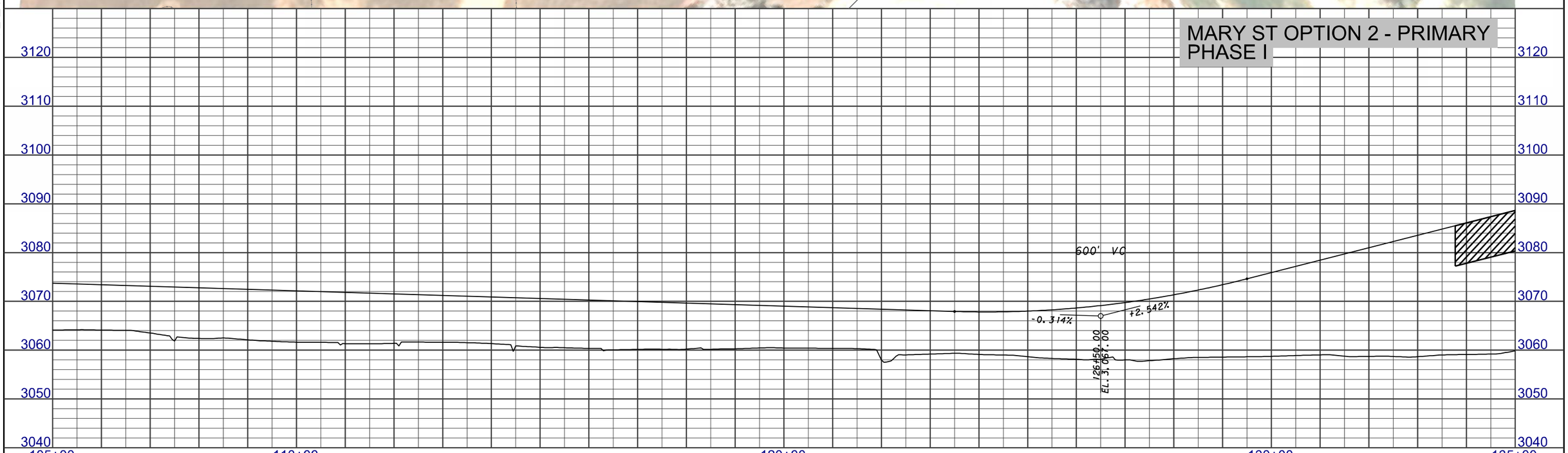


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz01_M2.dgn 8/23/2013 4:15:45 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-4

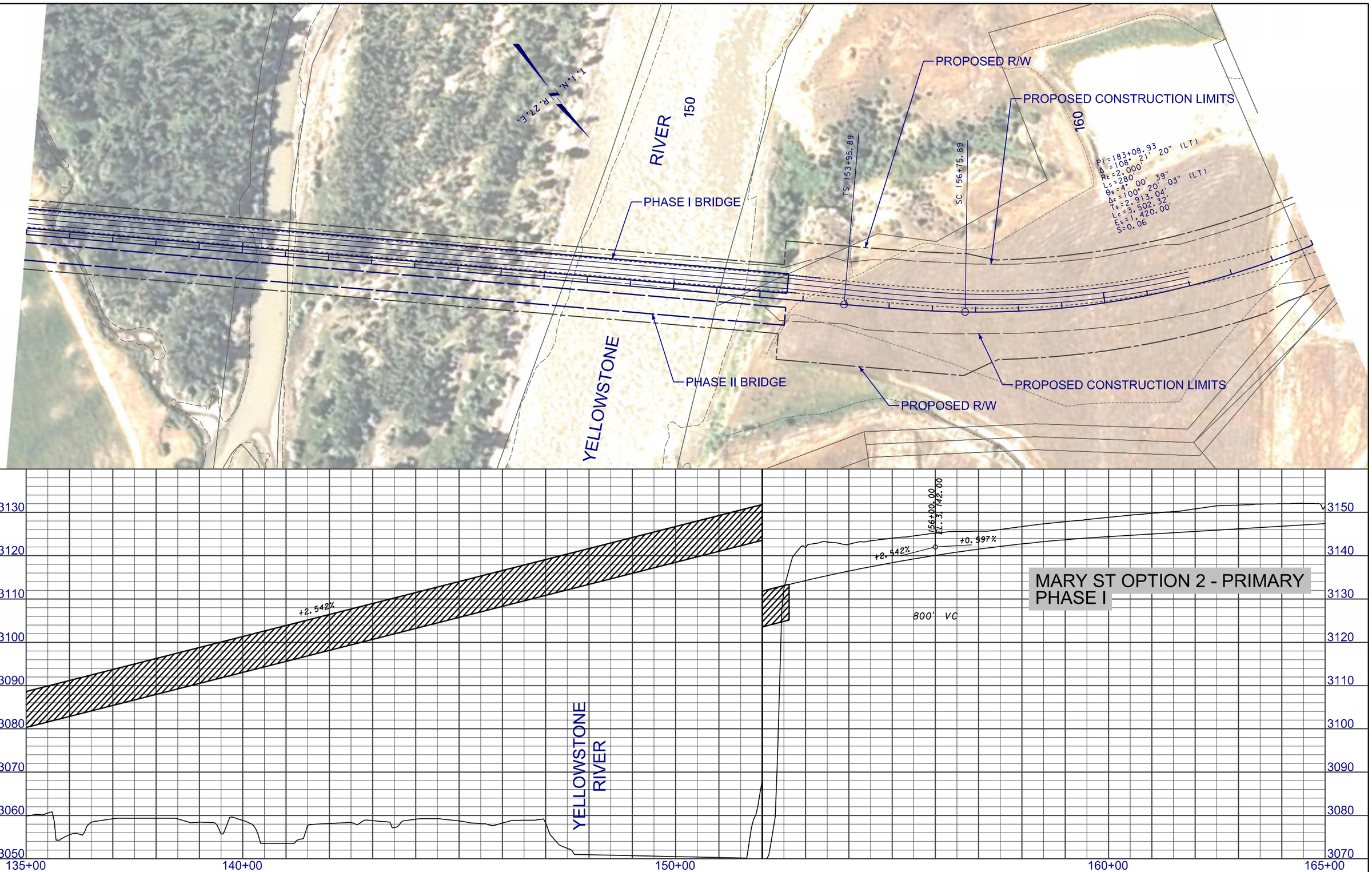


DOWL HKM

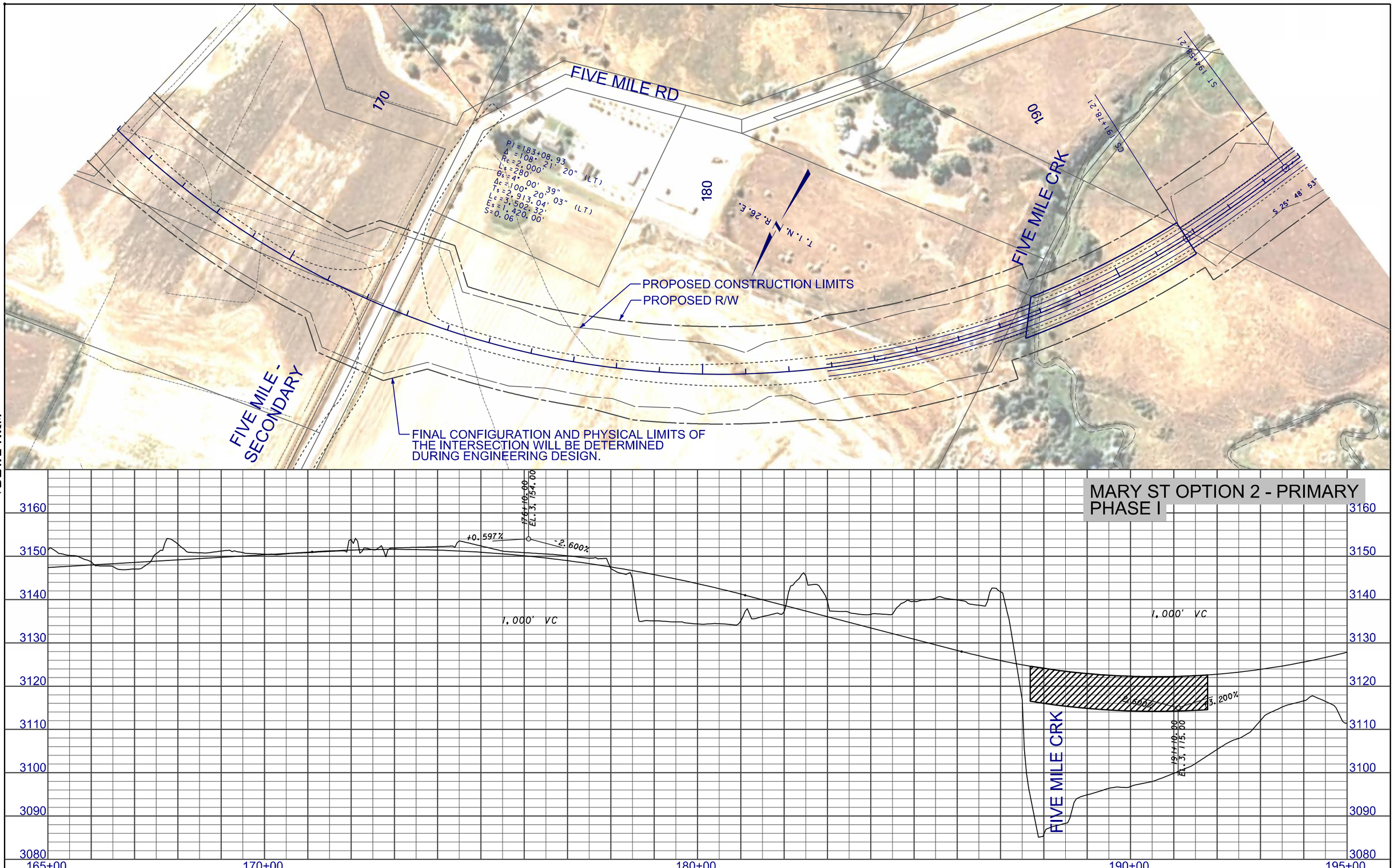
MARY ST OPTION 2 - PRIMARY PHASE I



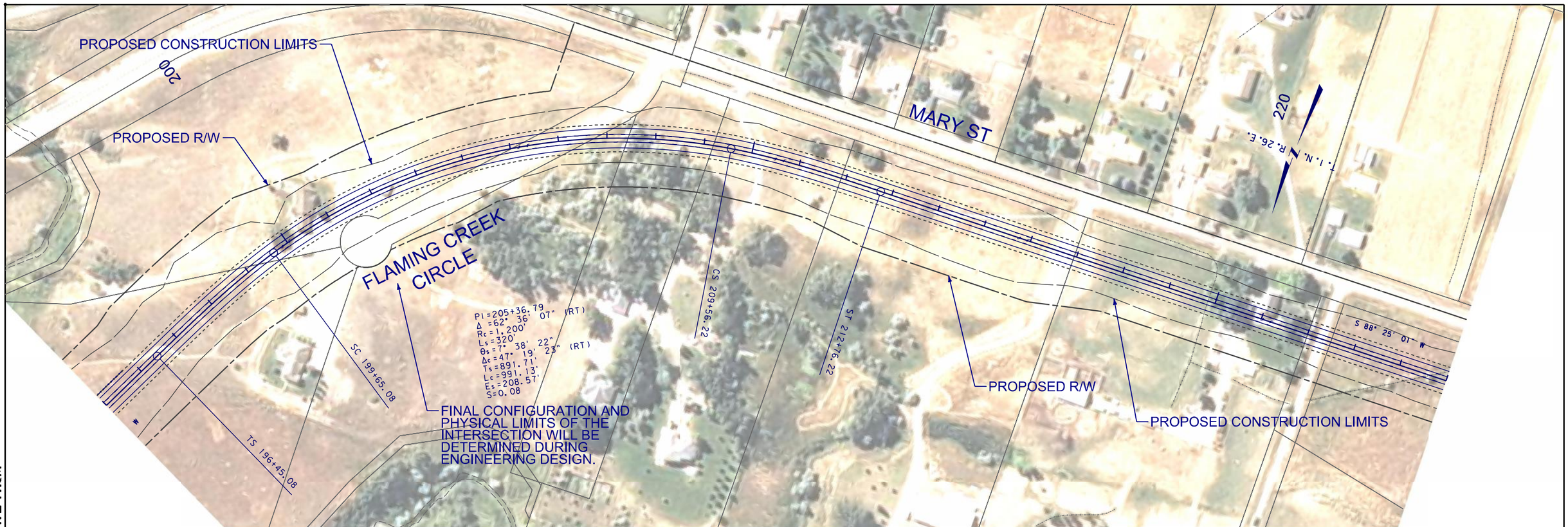
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz02_M2.dgn 8/23/2013 4:17:50 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-5



3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz02_M2.dgn 8/23/2013 4:18:08 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS / UPN 4199	NCPD 56(55) SHEET M2-6

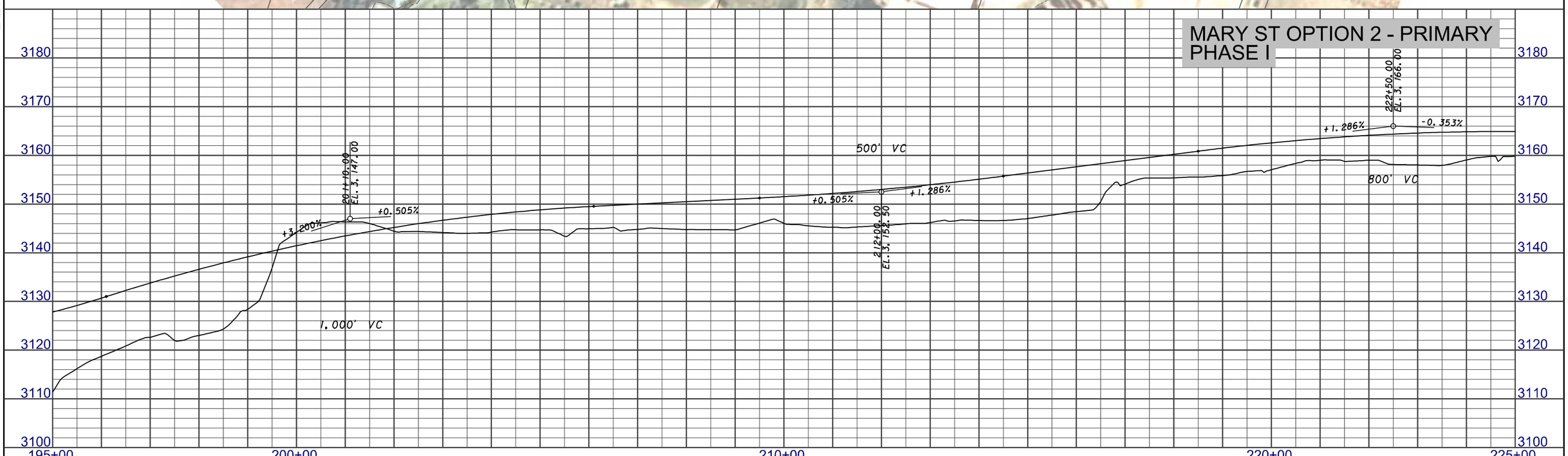


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz02_M2.dgn 8/23/2013 4:18:27 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-7

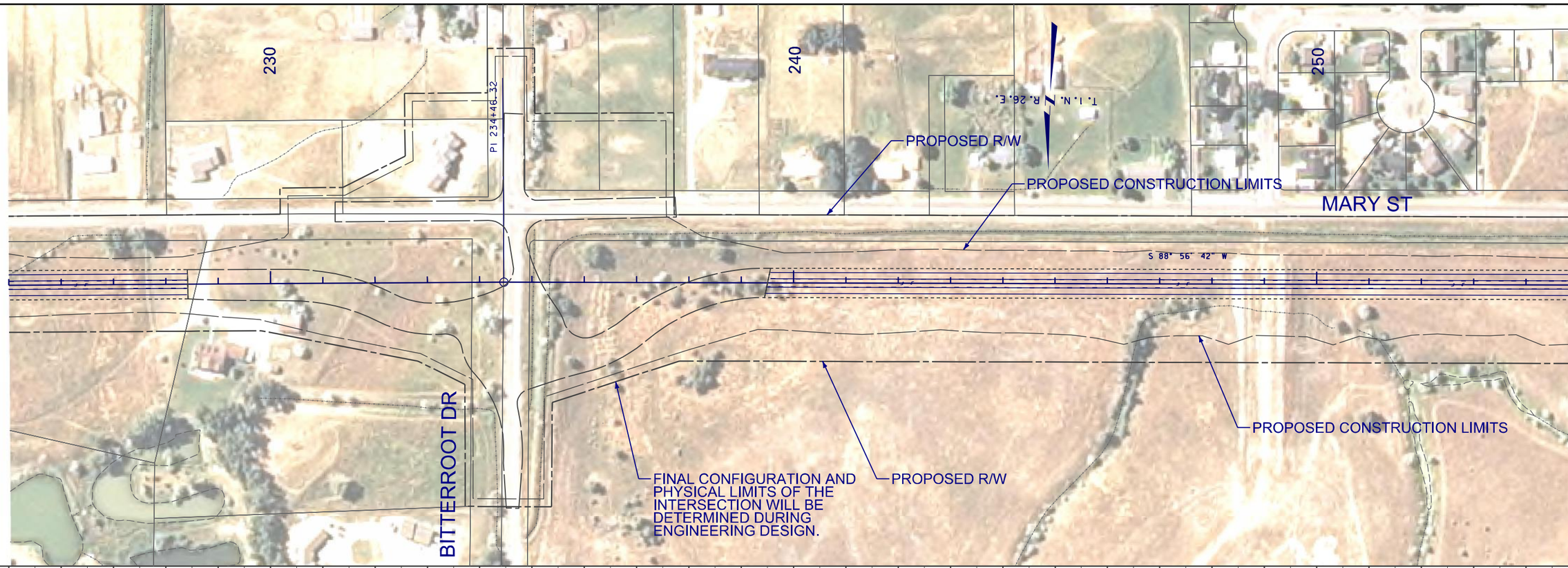


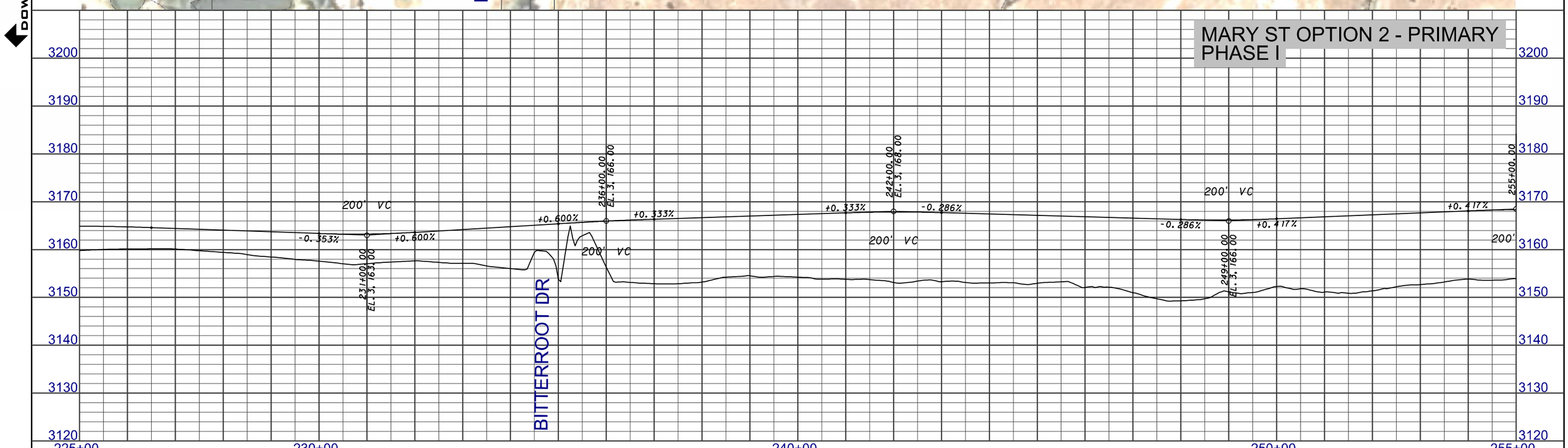
DOWL HKM

MARY ST OPTION 2 - PRIMARY PHASE I

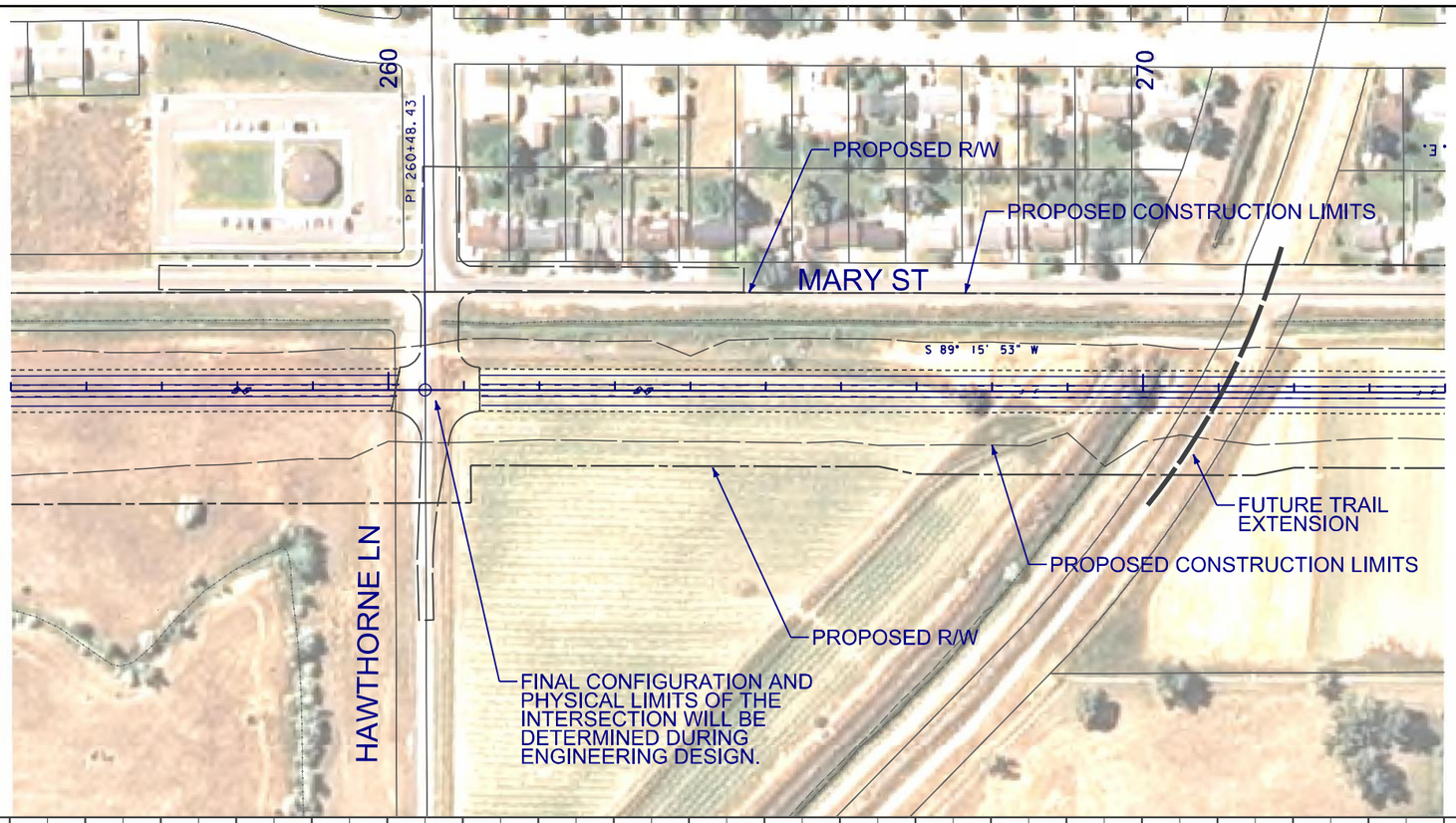


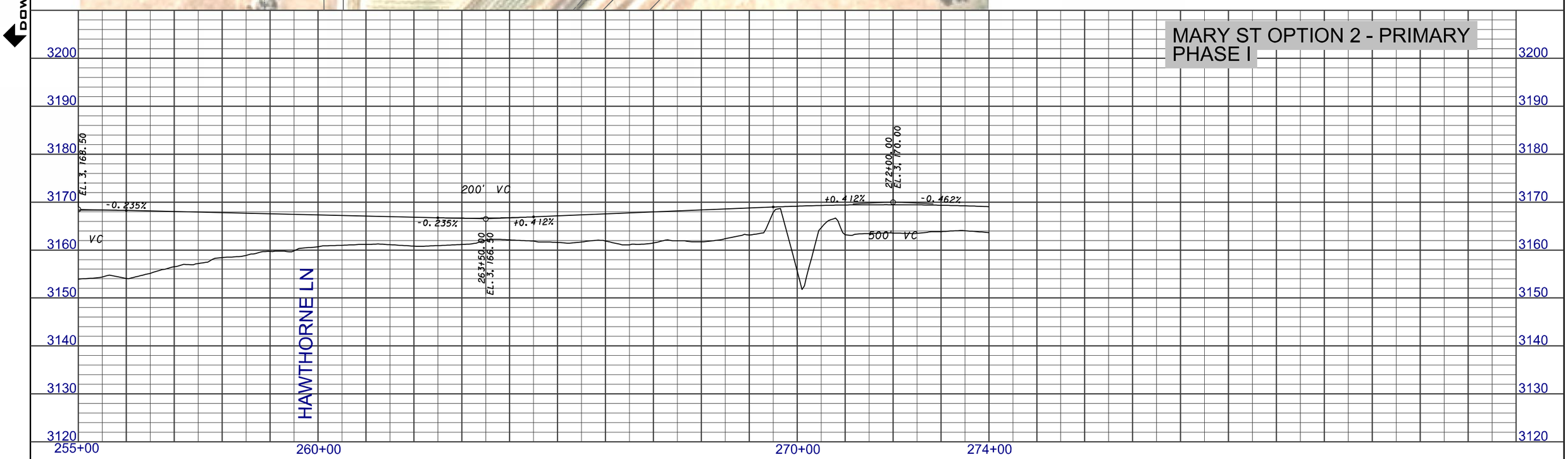
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz03_M2.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M2-8
		4:20:46 PM ngutierrez	CHECKED BY					



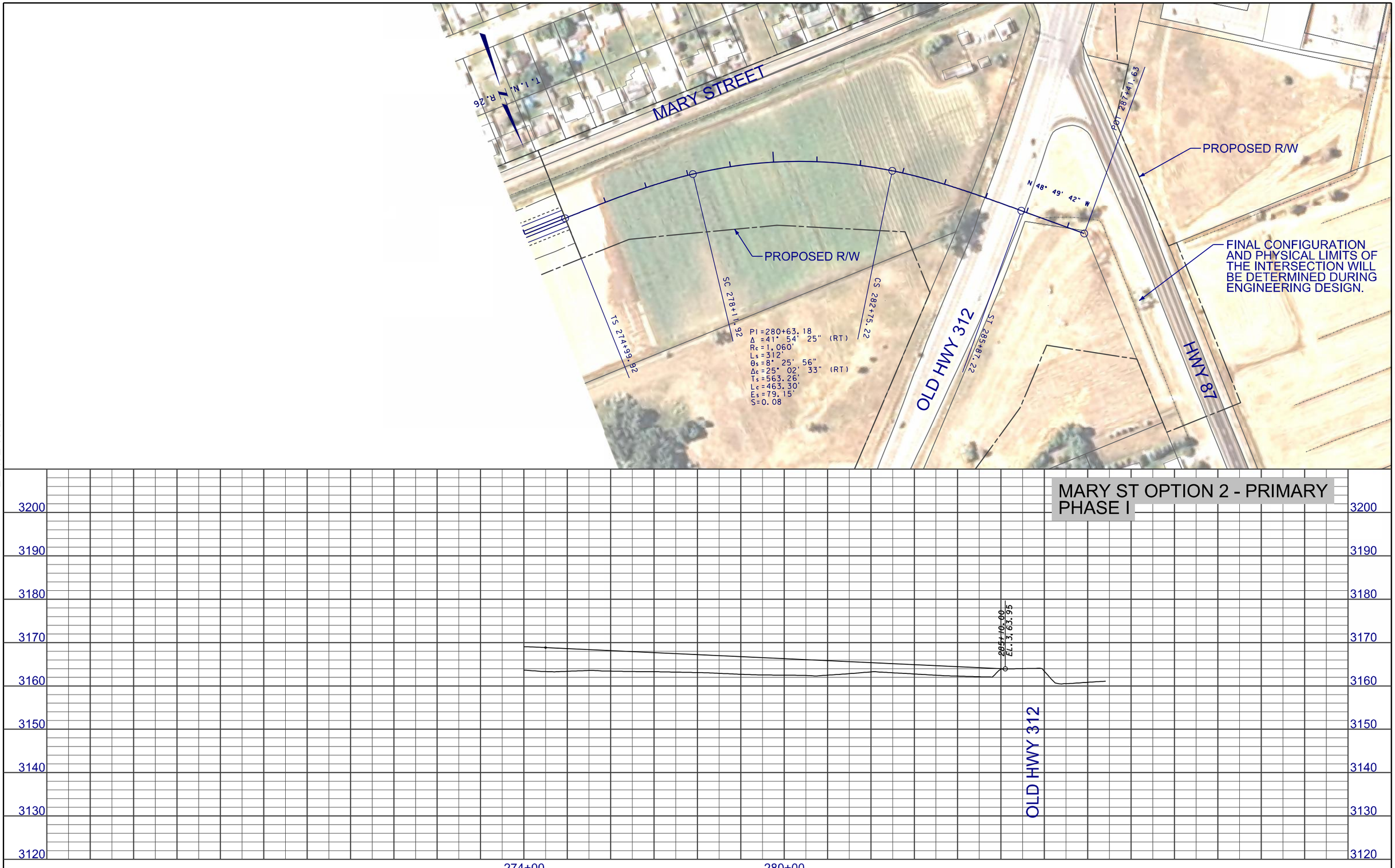


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz03_M2.dgn 8/23/2013 4:21:04 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-9

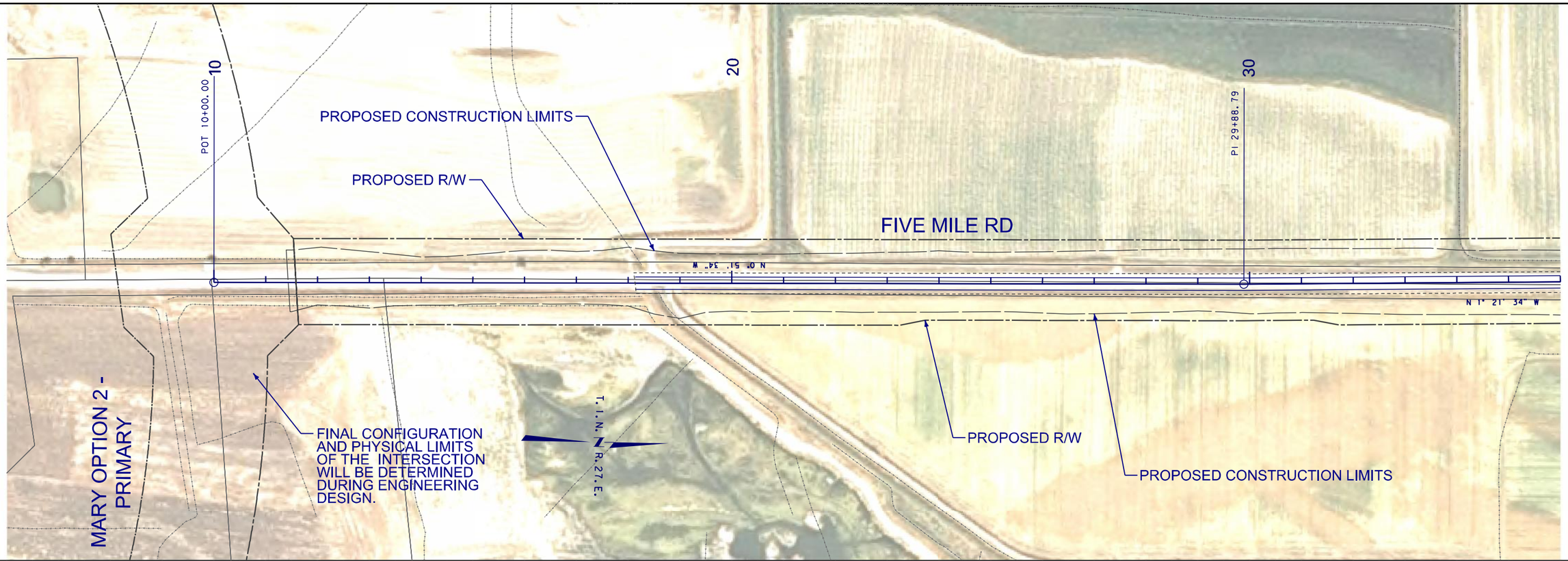




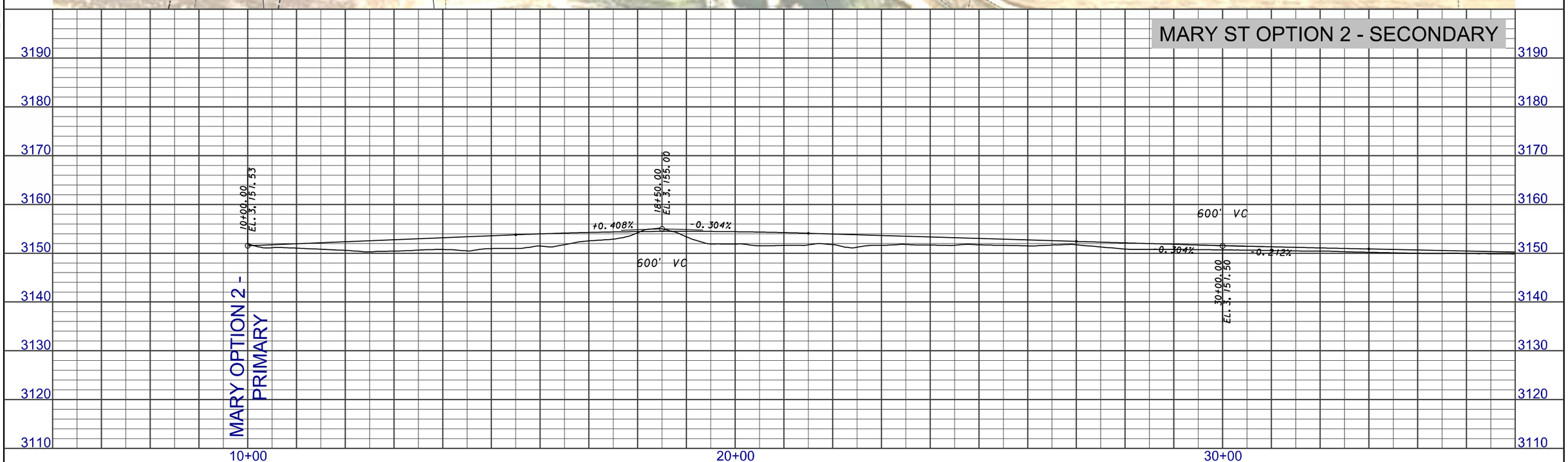
2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz03_M2.dgn 8/23/2013 4:21:22 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-10



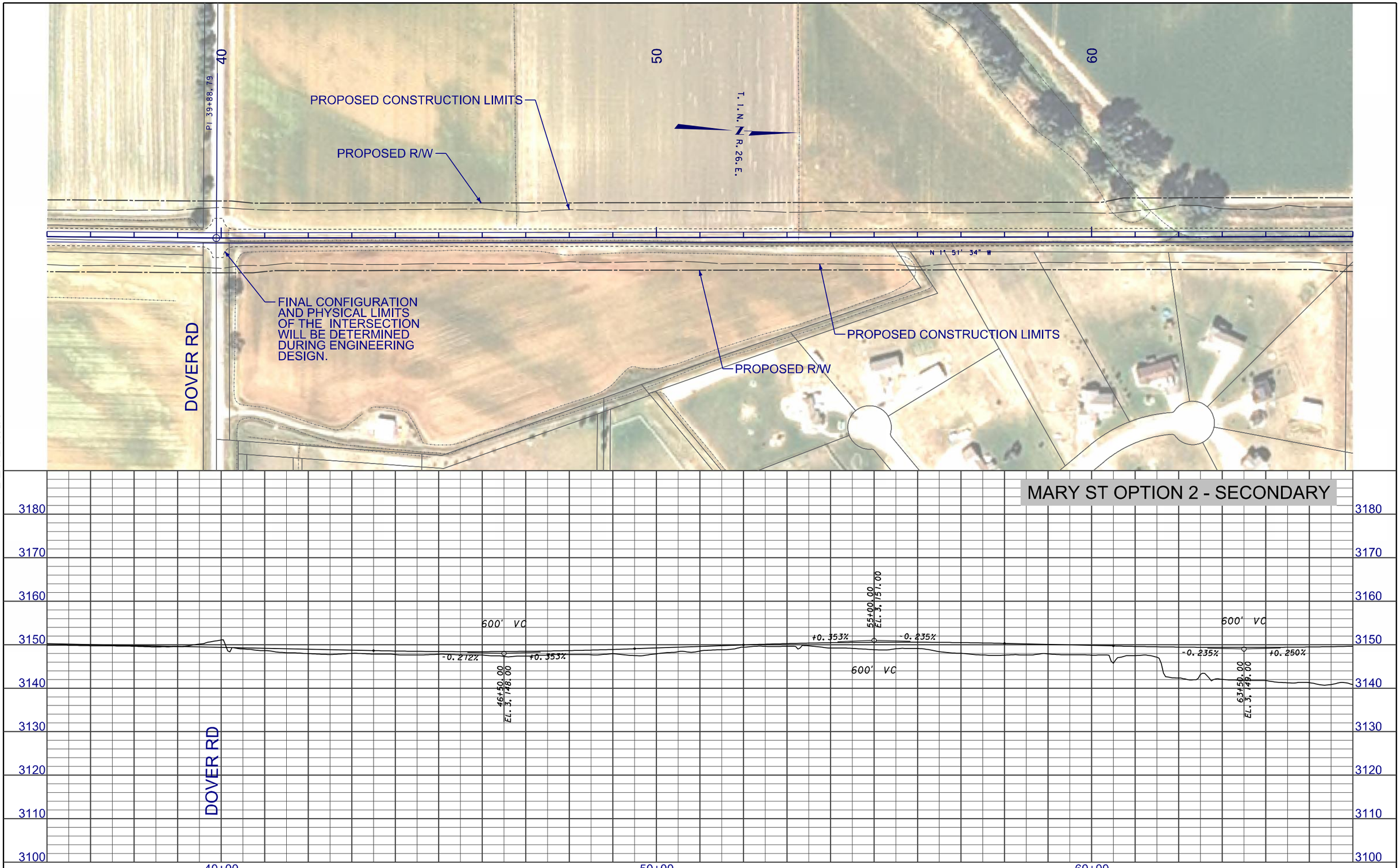
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz04_M2.dgn	DESIGNED BY		ROAD PLANS	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY		YELLOWSTONE COUNTY	UPN 4199	SHEET M2-11
		11:59:58 AM ngutierrez	CHECKED BY		PRELIMINARY		



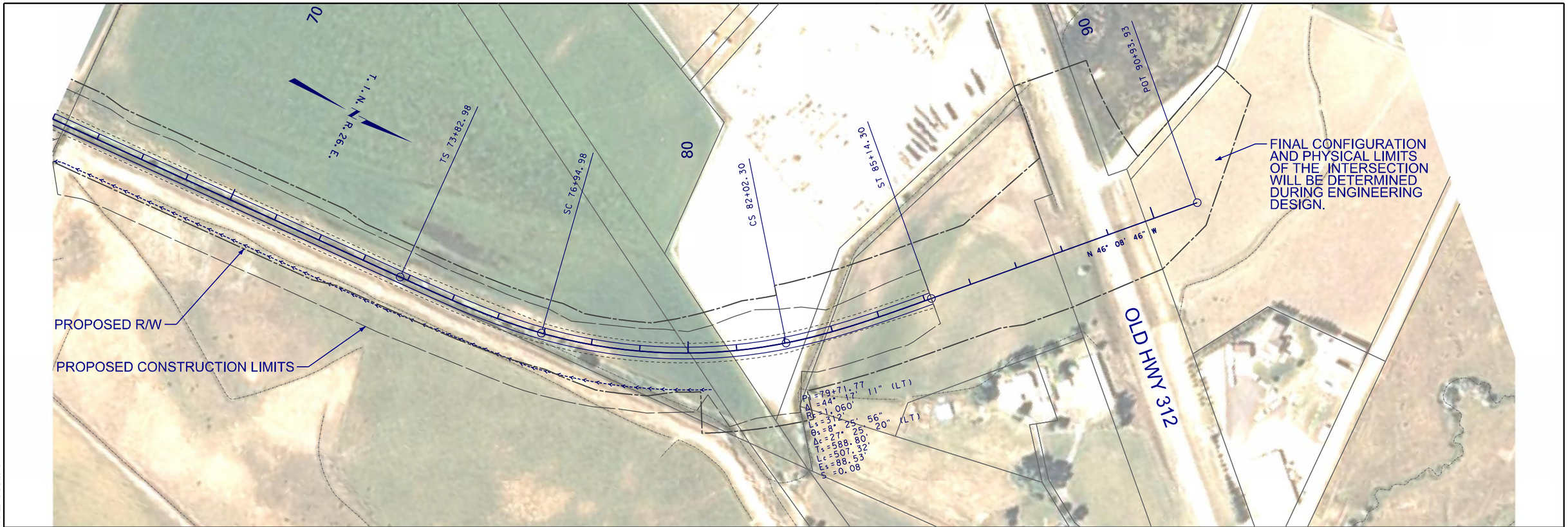
DOWL HKM



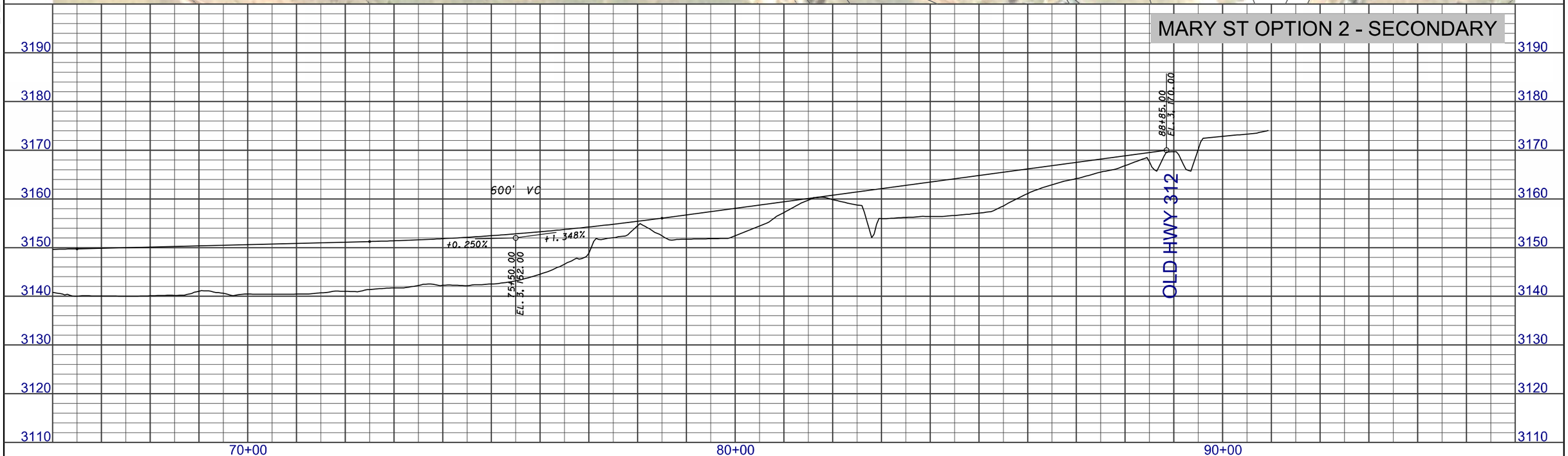
3 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M2\4199rdplpz01_M2-2nd.dgn 8/19/2013 12:02:07 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-12



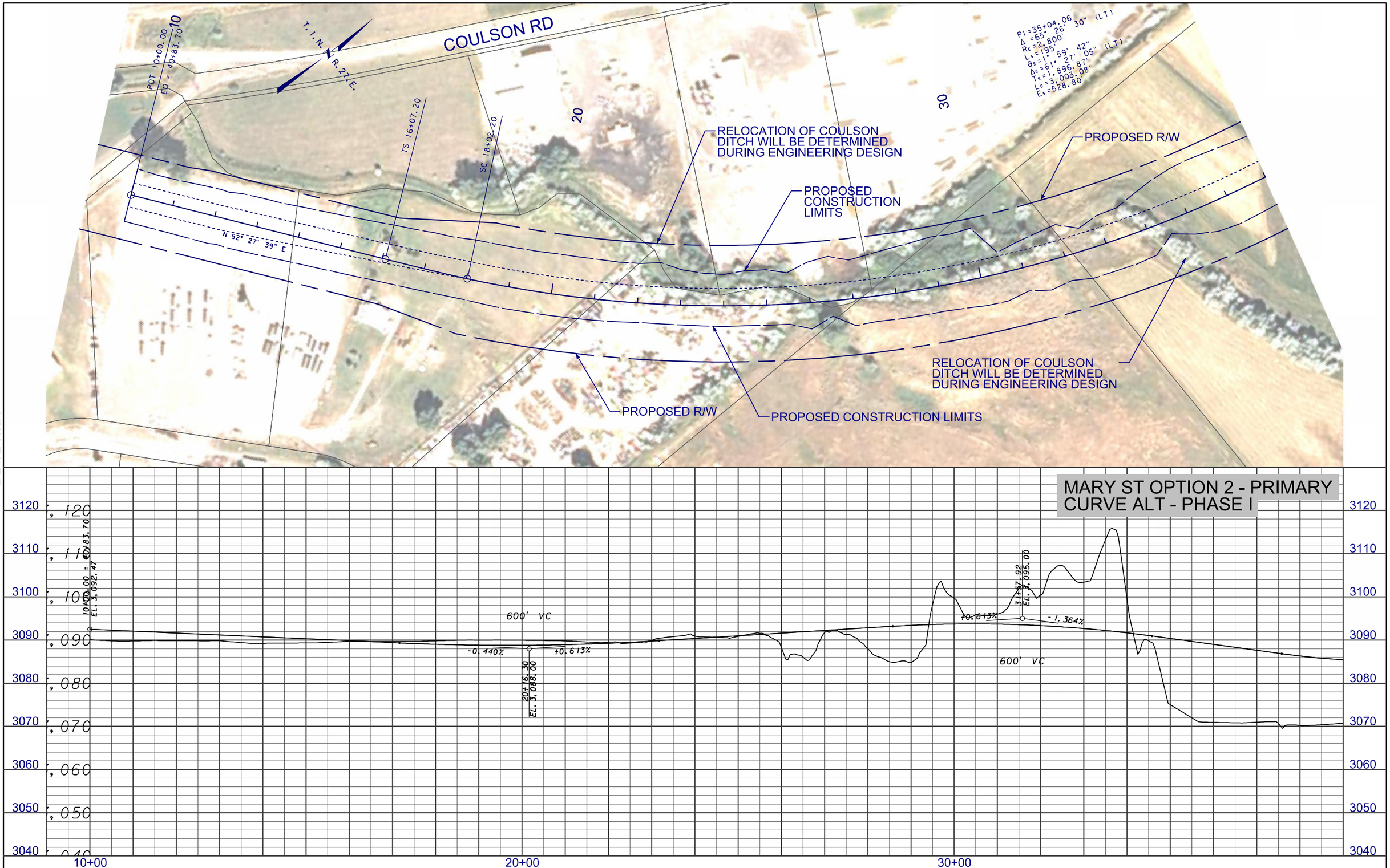
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M2\4199rdplpz01_M2-2nd.dgn 8/19/2013 12:02:25 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-13



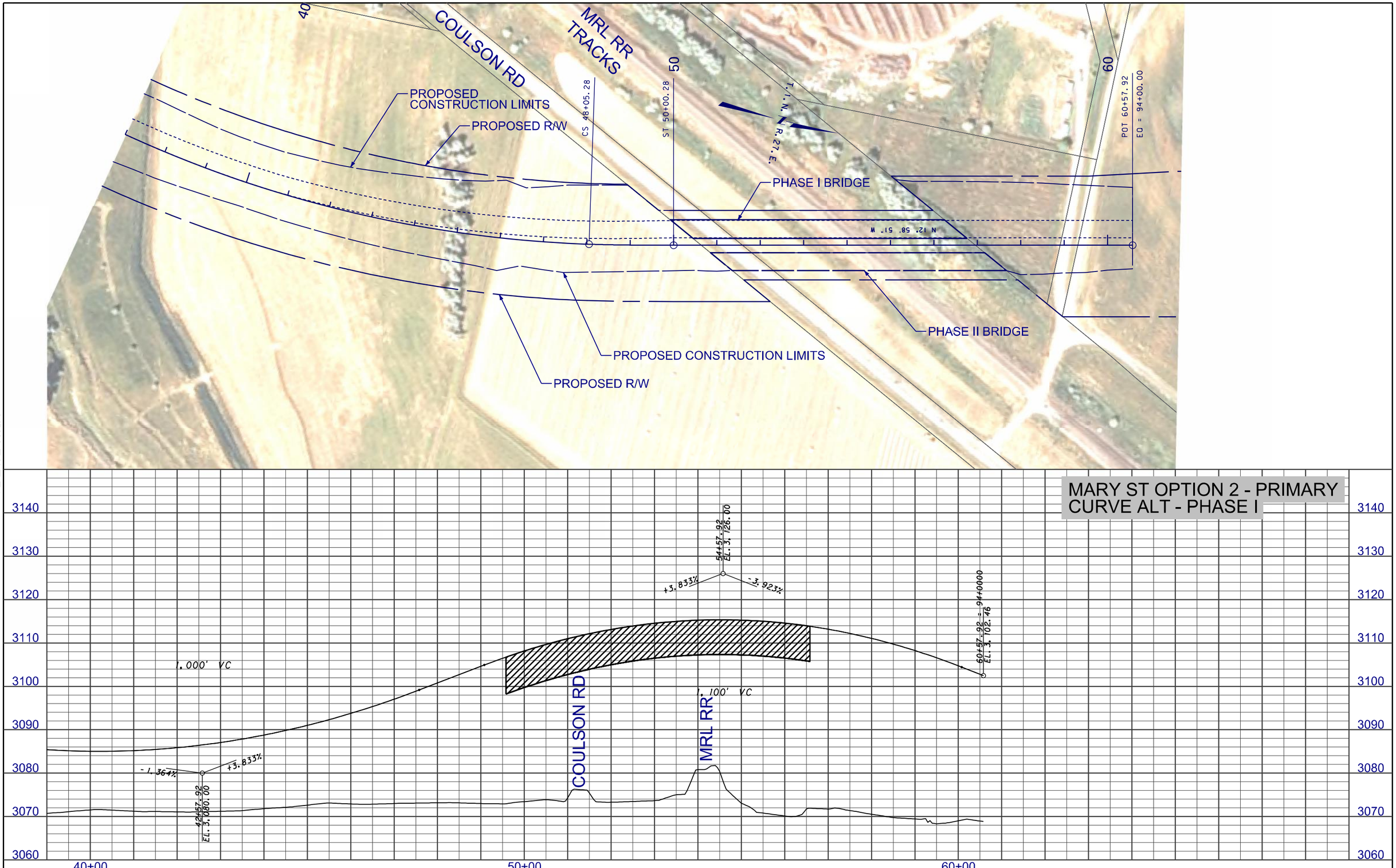
DOWL HKM



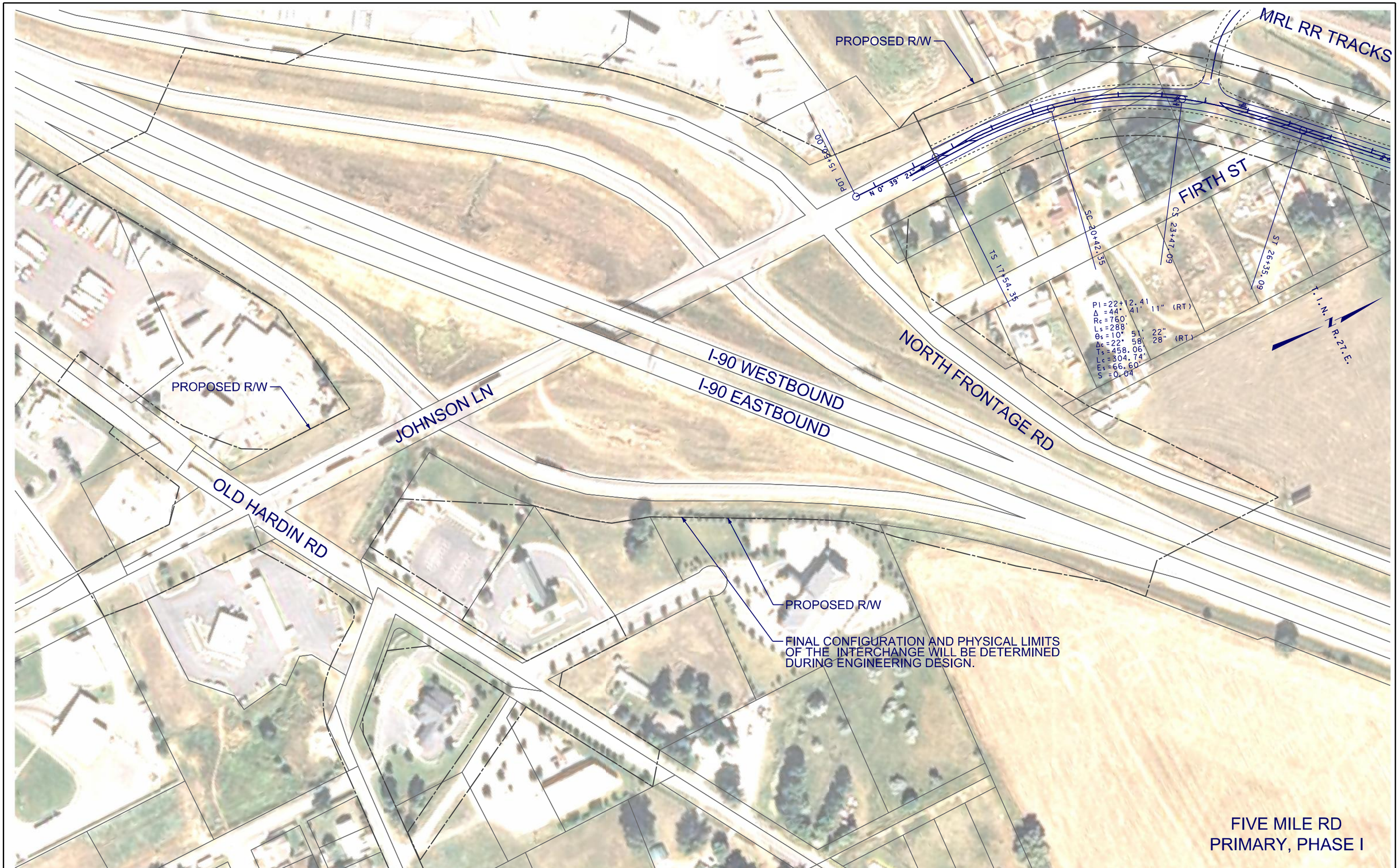
2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\M2\4199rdplpz01_M2-2nd.dgn 8/19/2013 12:02:43 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-14



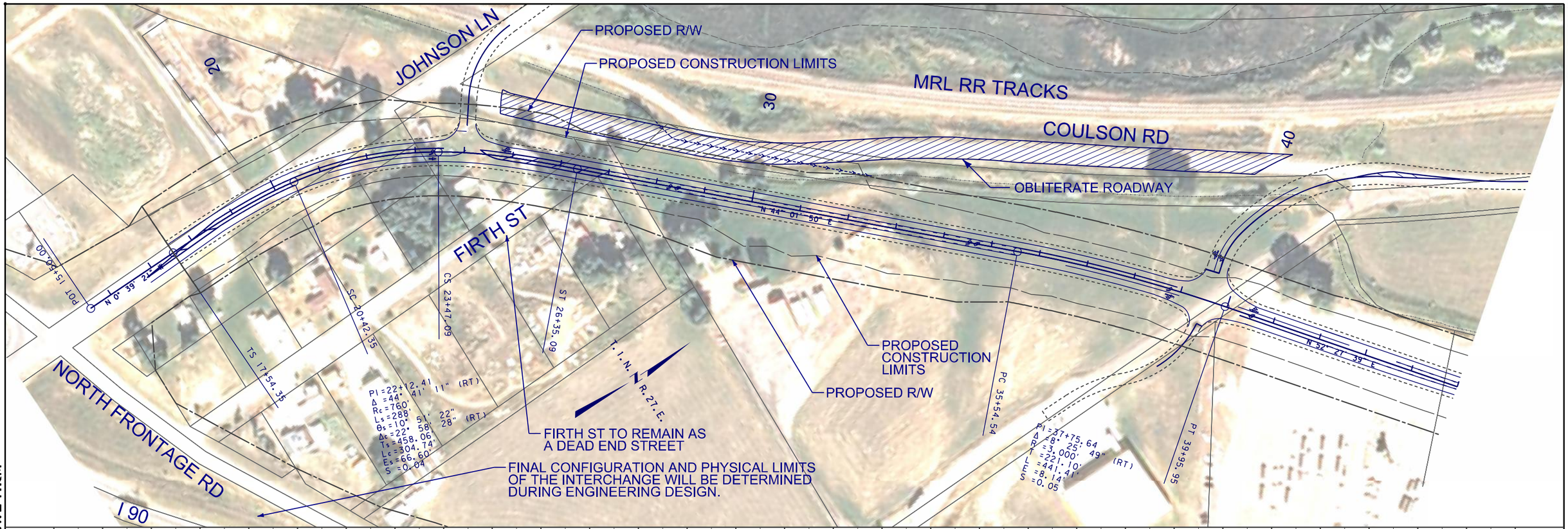
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz05_M2.dgn 8/23/2013 4:26:30 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-15

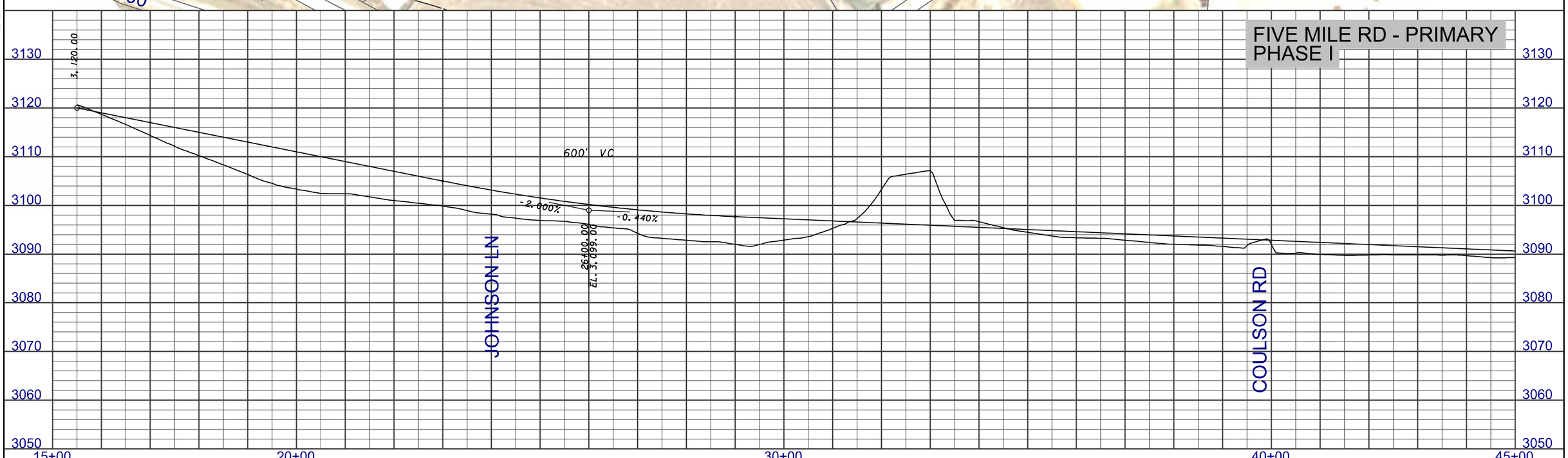


2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz05_M2.dgn 8/23/2013 4:26:48 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-16

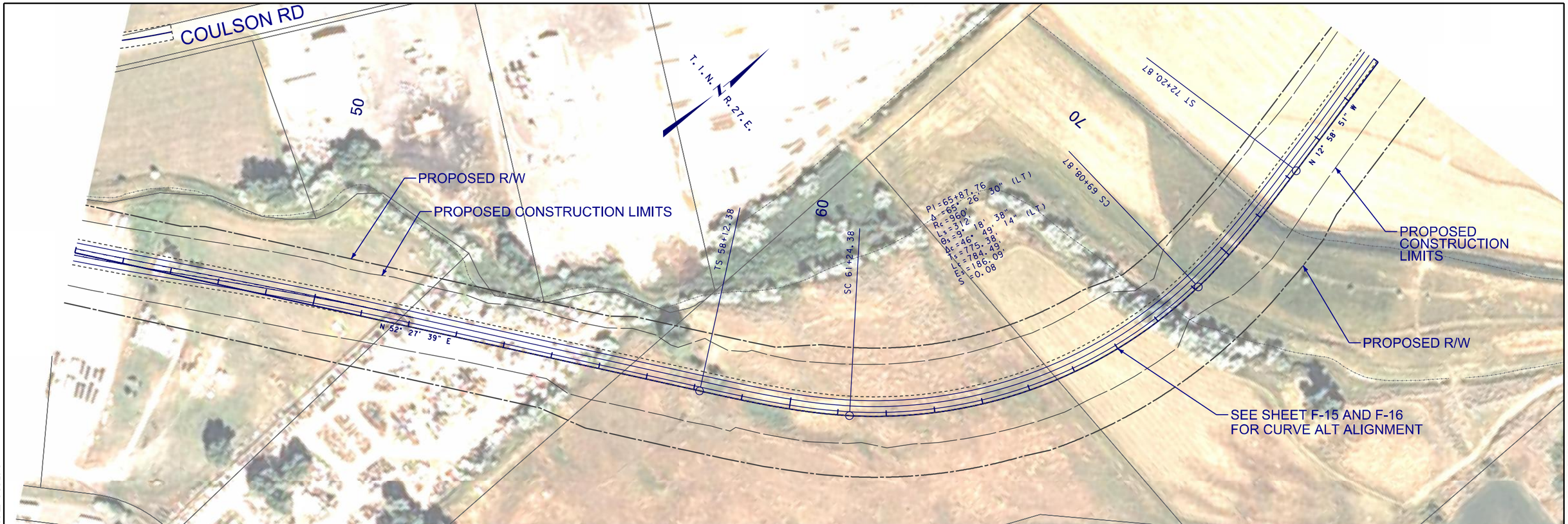


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplnZ01_F.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY				
		12:25:23 PM ngutierrez	CHECKED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET F-1



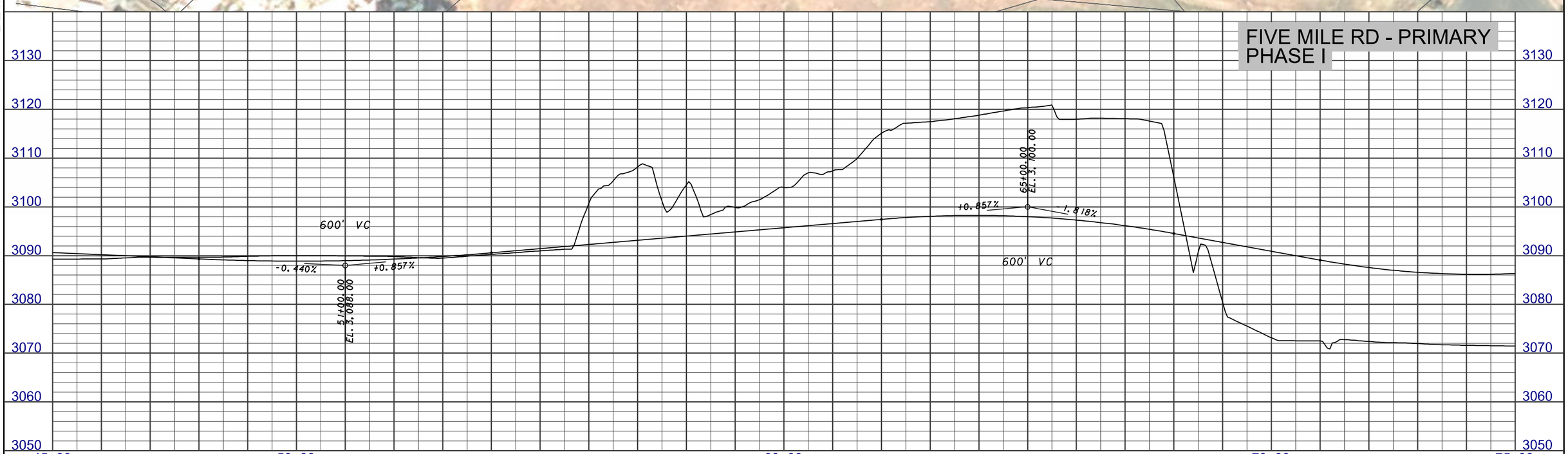


3 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz01_F.dgn 8/19/2013 12:27:54 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-2

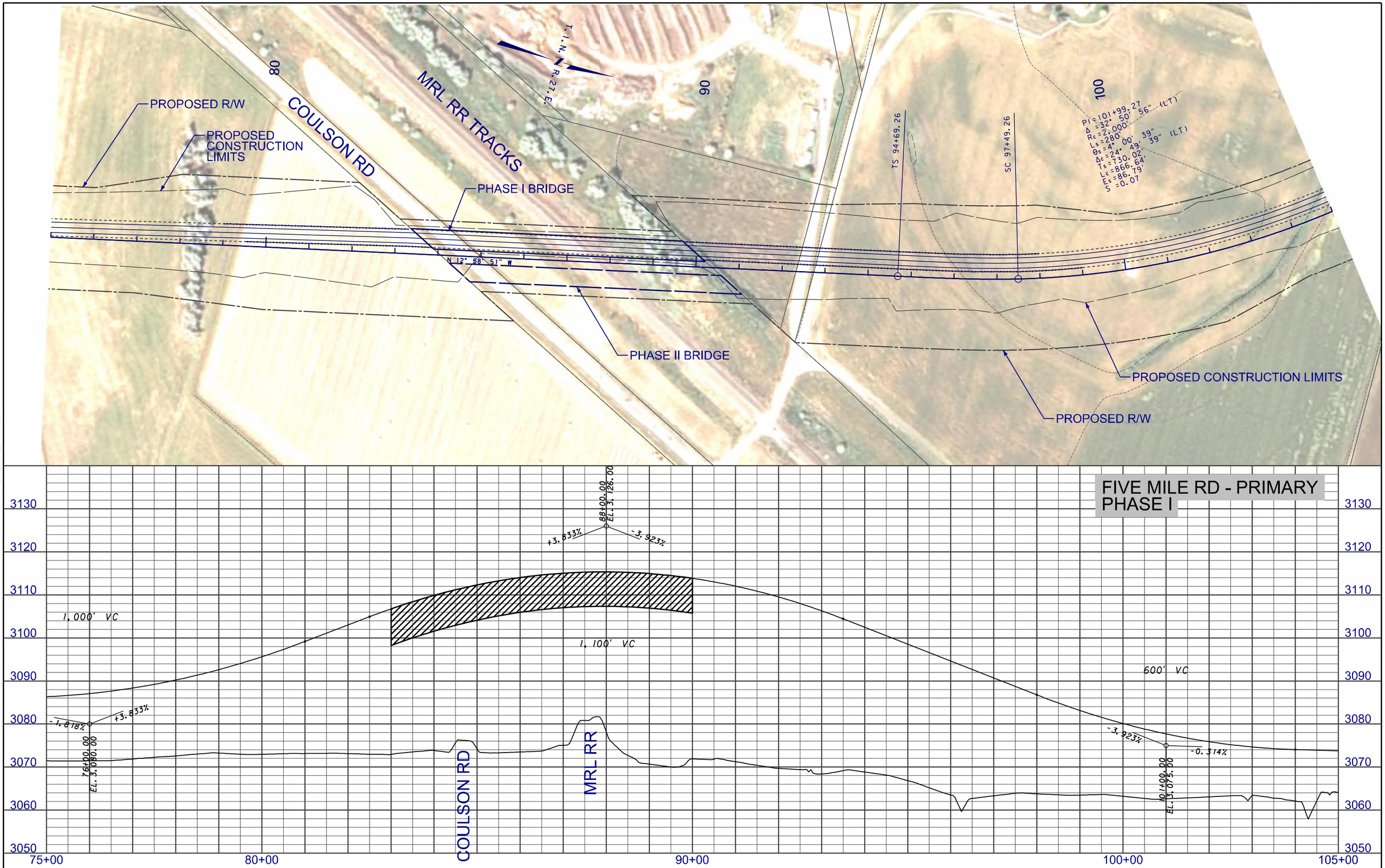


DOWL HKM

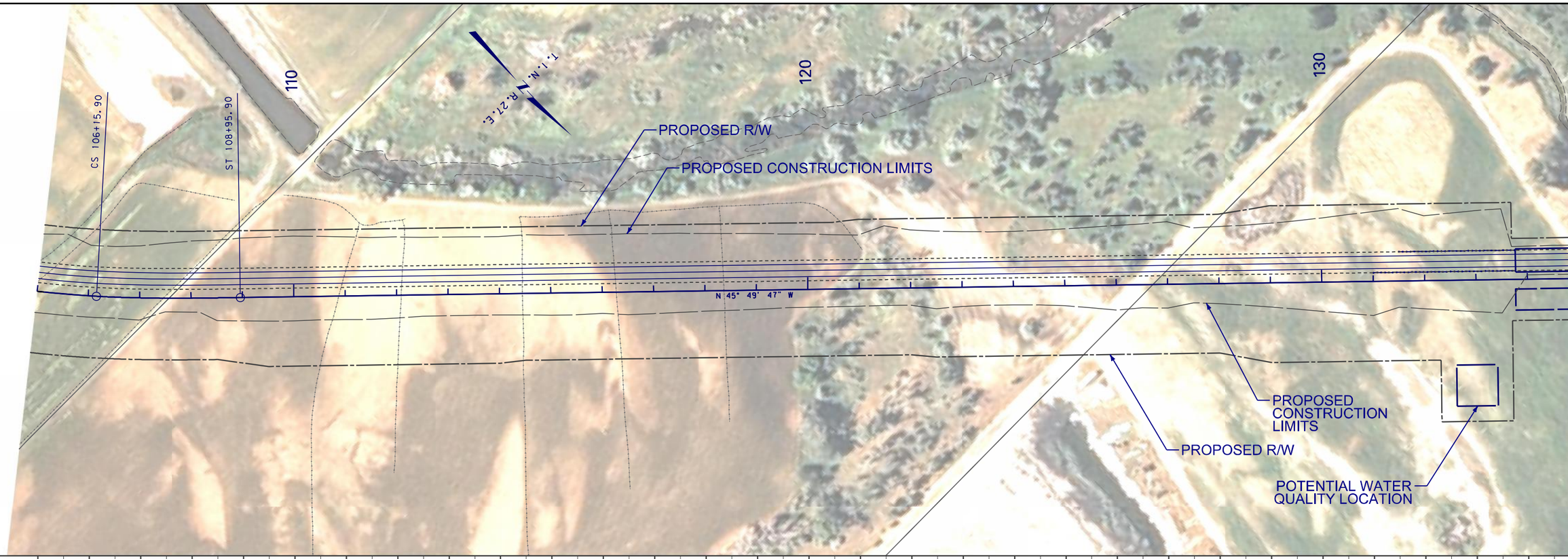
FIVE MILE RD - PRIMARY
PHASE I



3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz01_F.dgn 8/19/2013 12:28:12 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-3

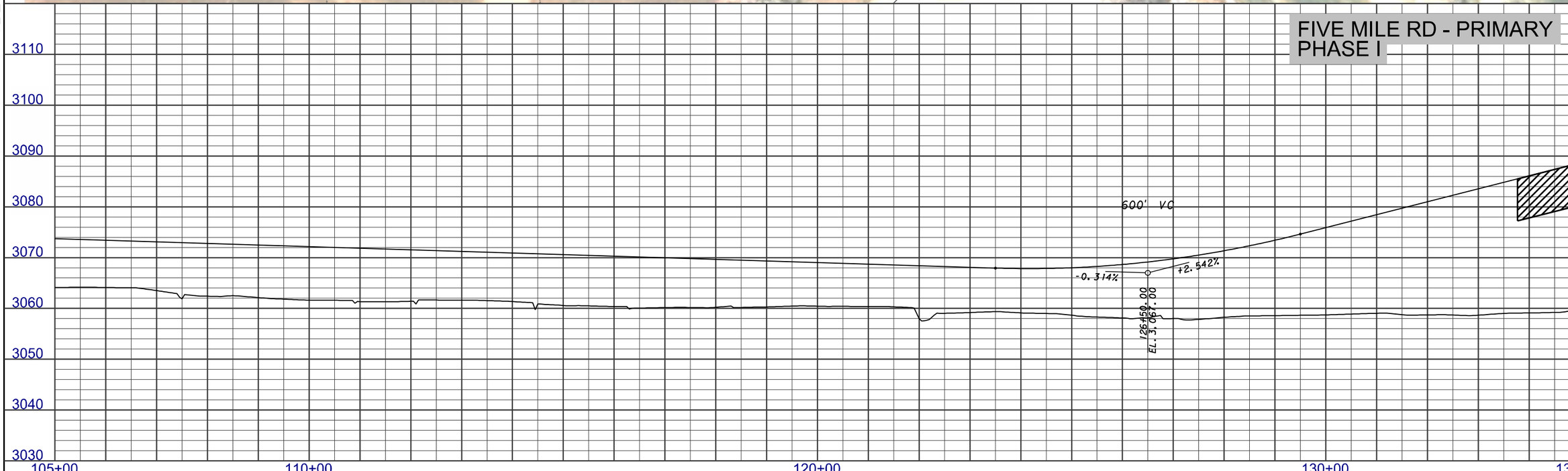


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz01_F.dgn 8/19/2013 12:28:31 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-4

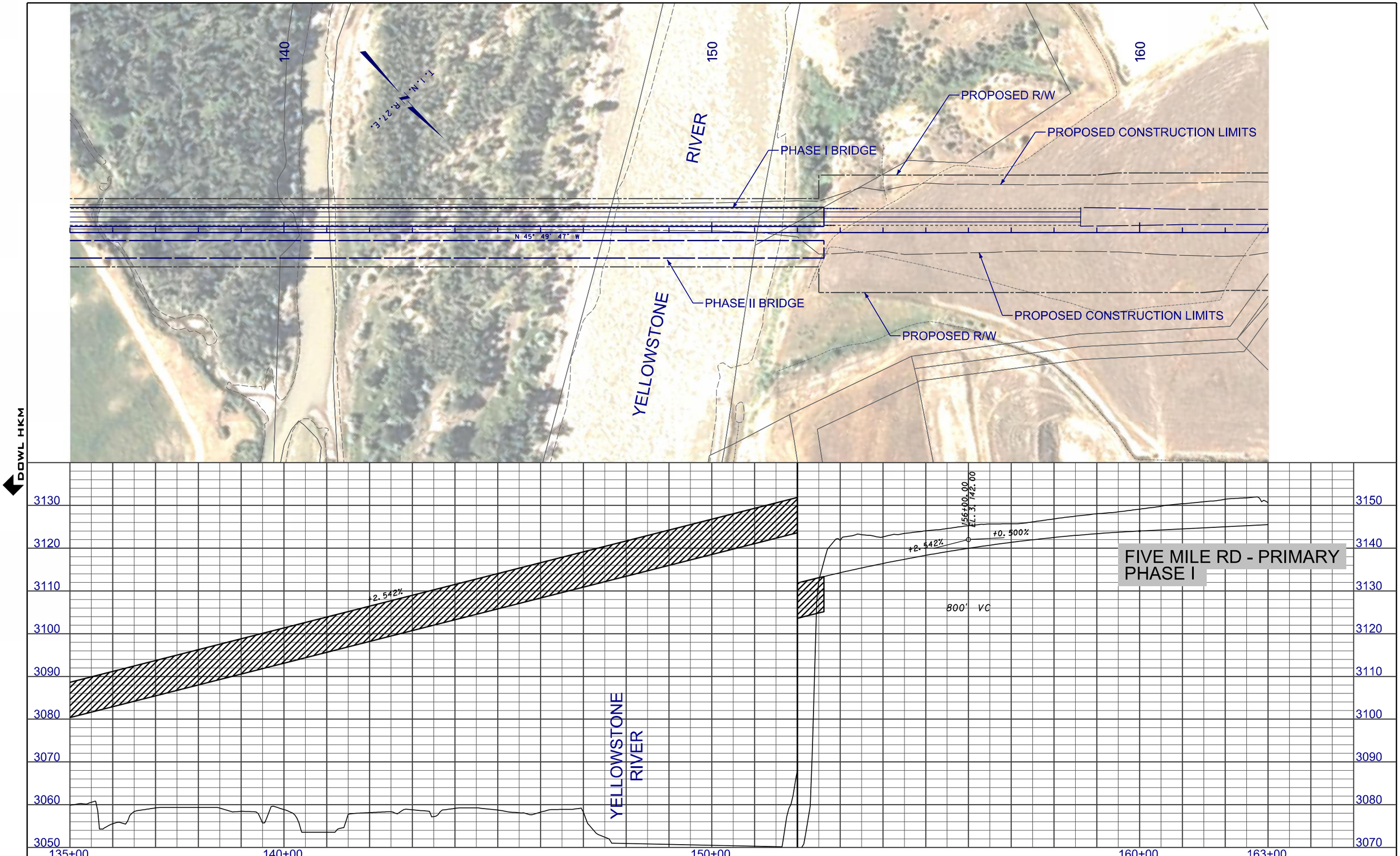


DOWL HKM

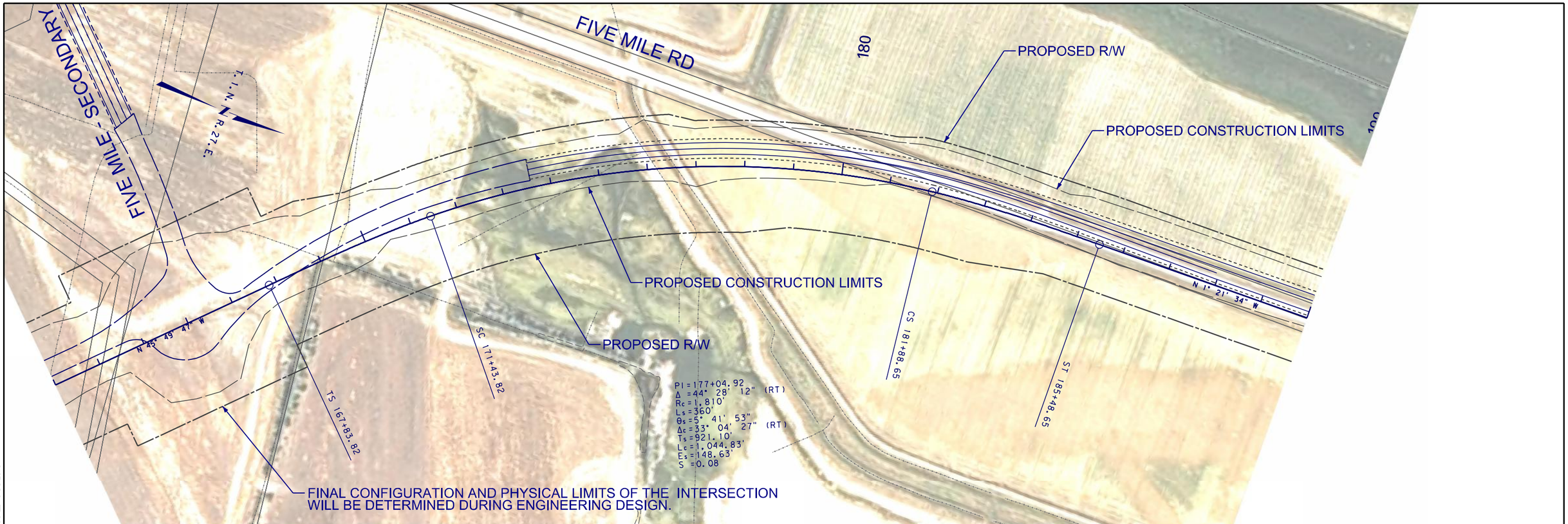
FIVE MILE RD - PRIMARY
PHASE I

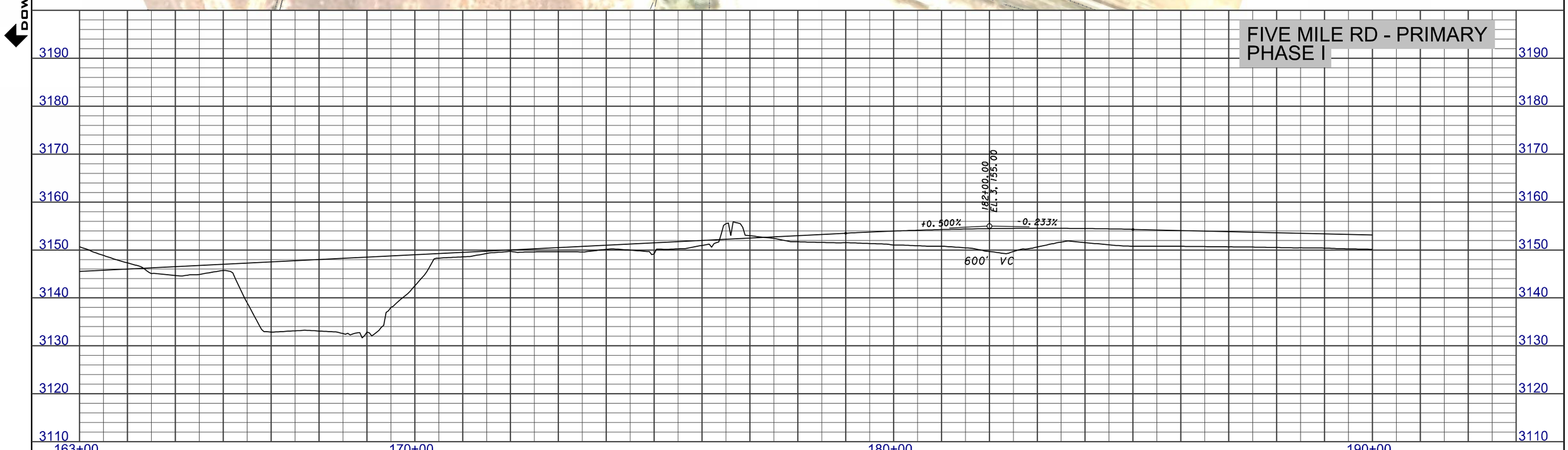


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz02_F.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY				
		12:31:00 PM ngutierrez	CHECKED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET F-5

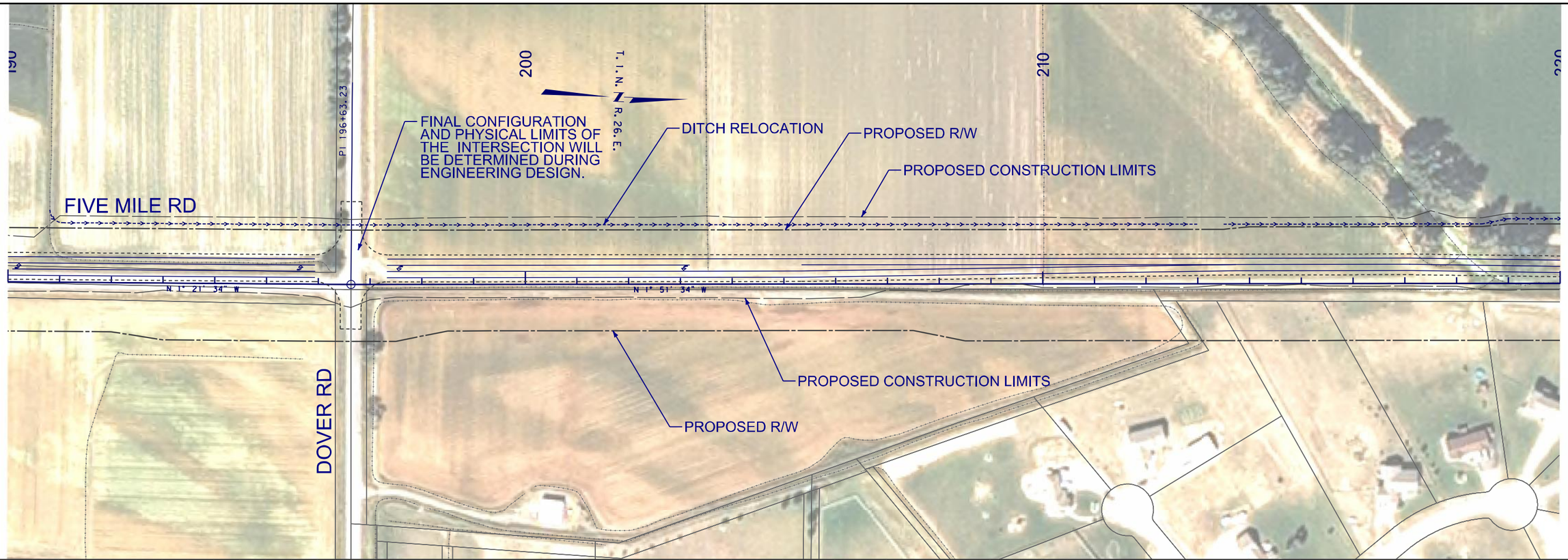


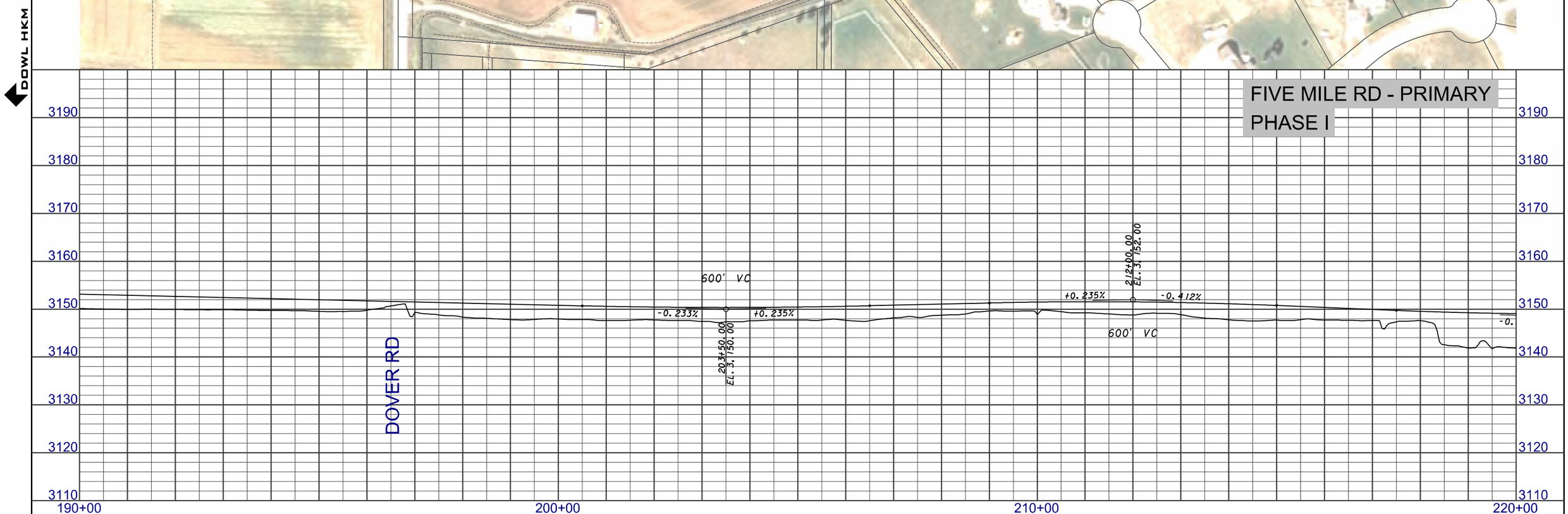
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz02_F.dgn 8/19/2013 12:31:18 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-6



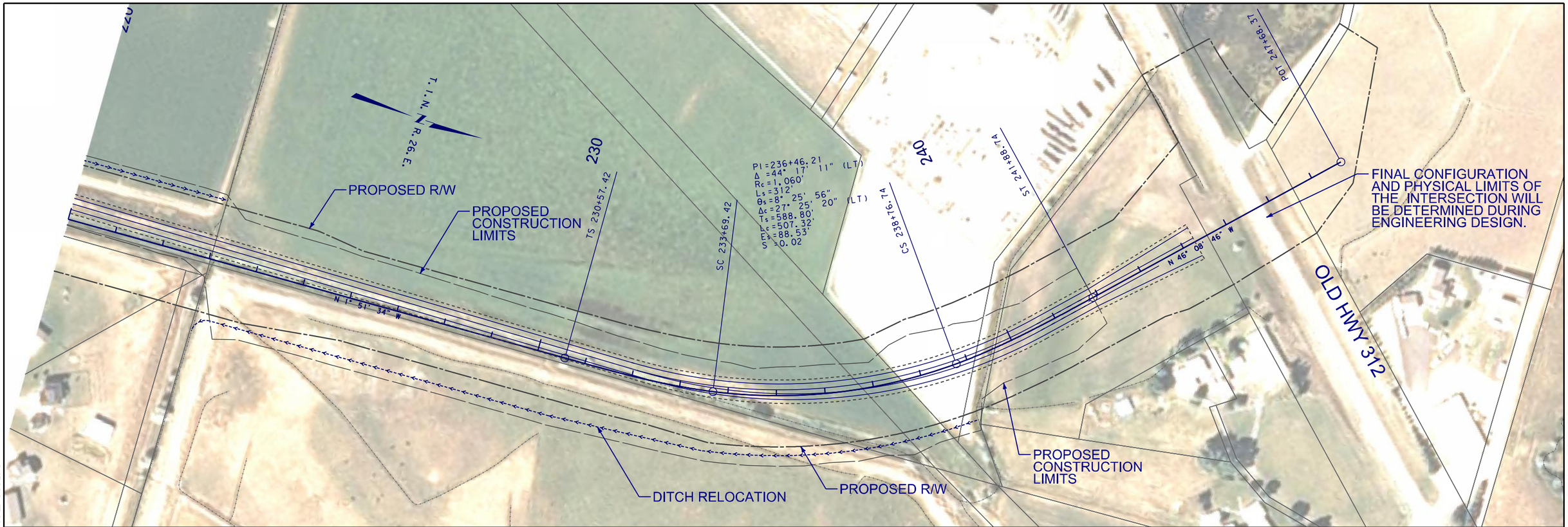


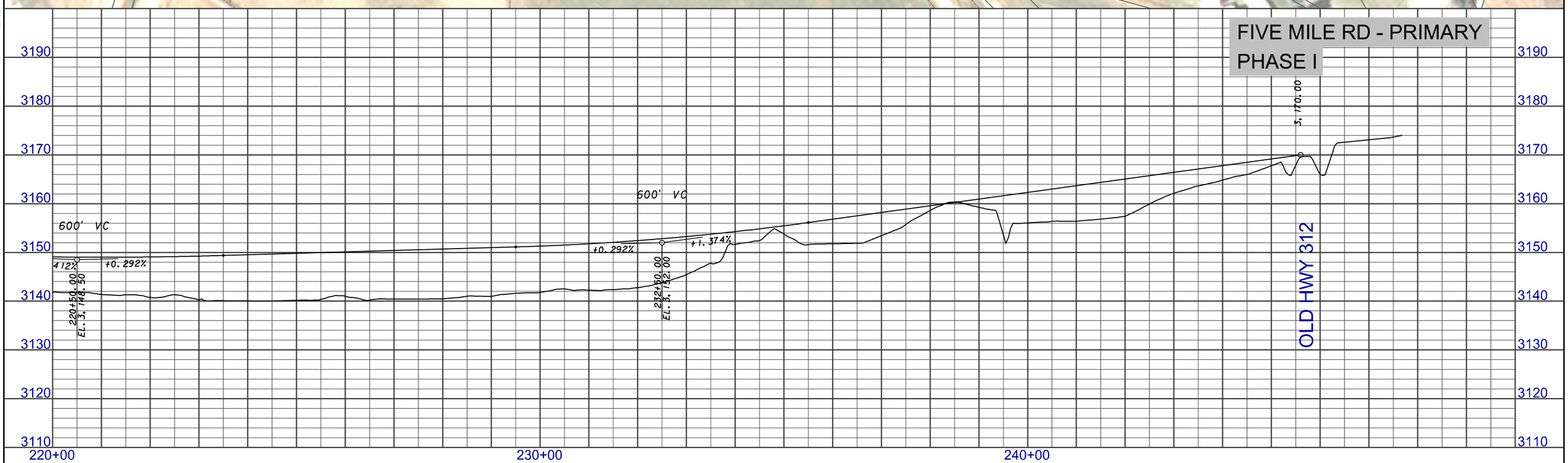
2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz02_F.dgn 8/19/2013 12:31:36 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-7



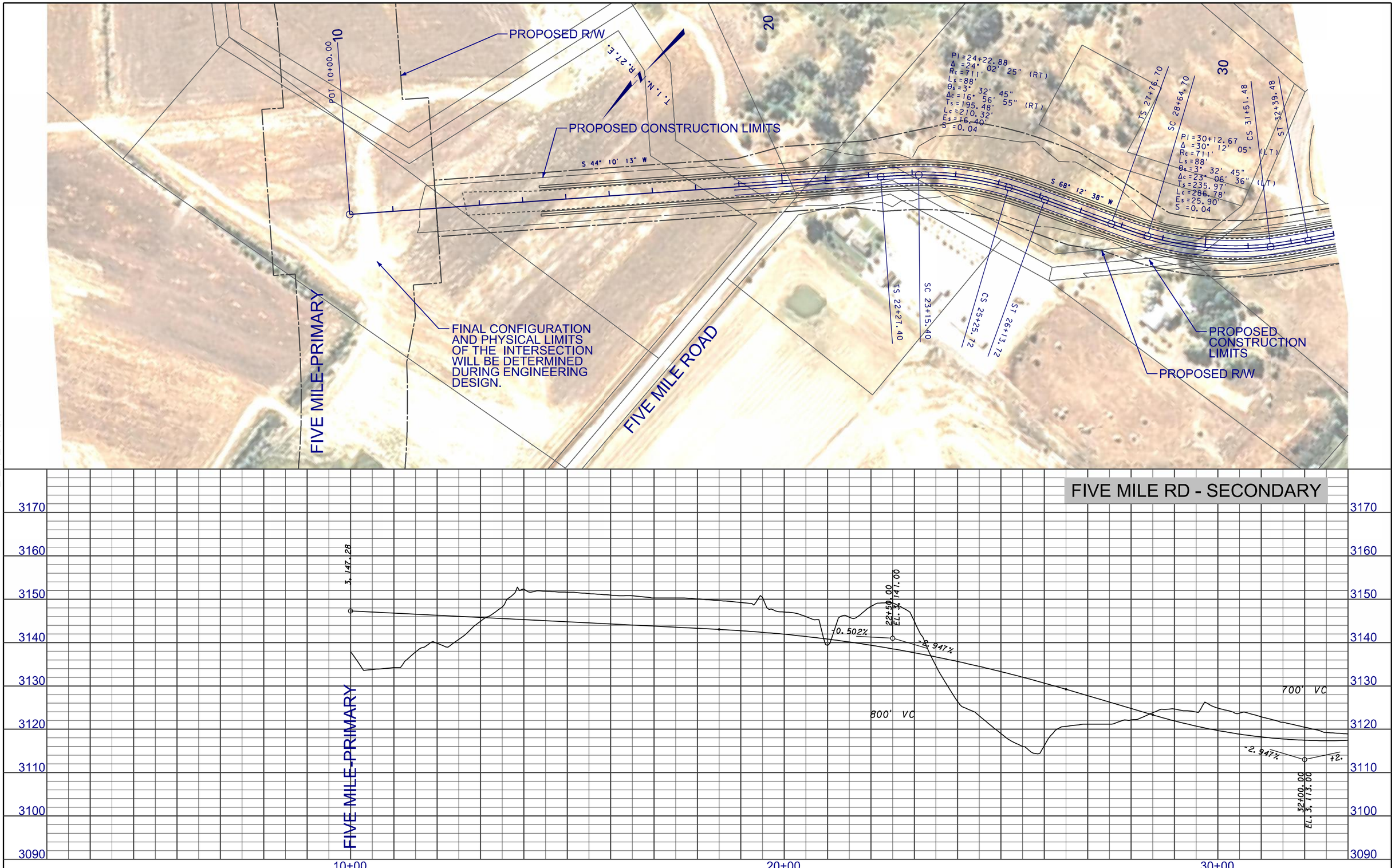


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz03_F.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET F-8
		12:33:59 PM ngutierrez	CHECKED BY				



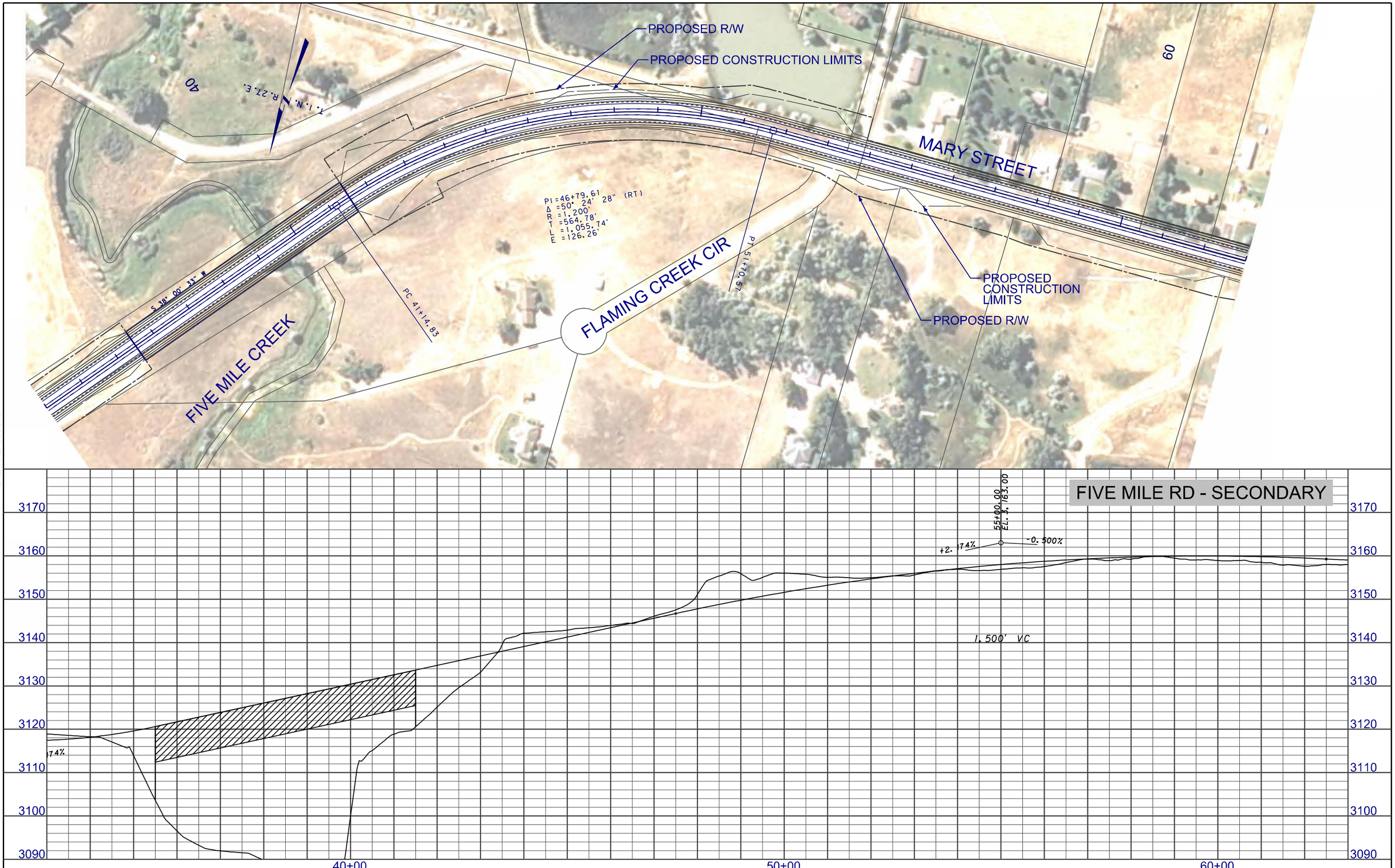


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz03_F.dgn 8/19/2013 12:34:18 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-9



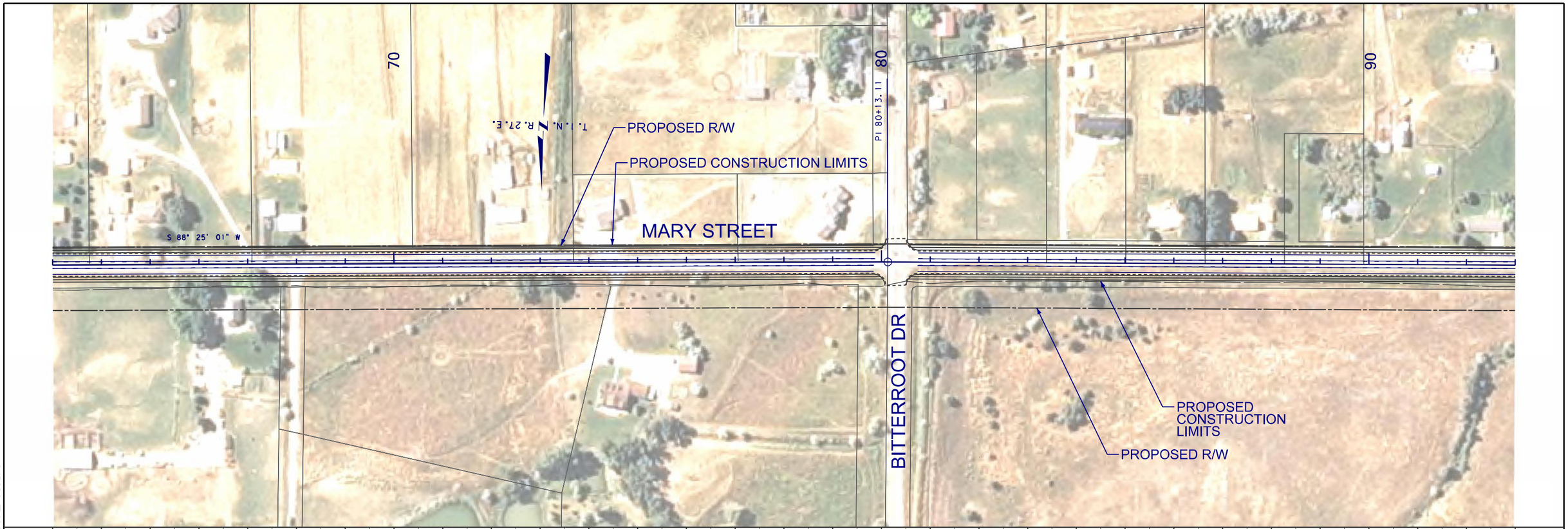
DOWL HKM

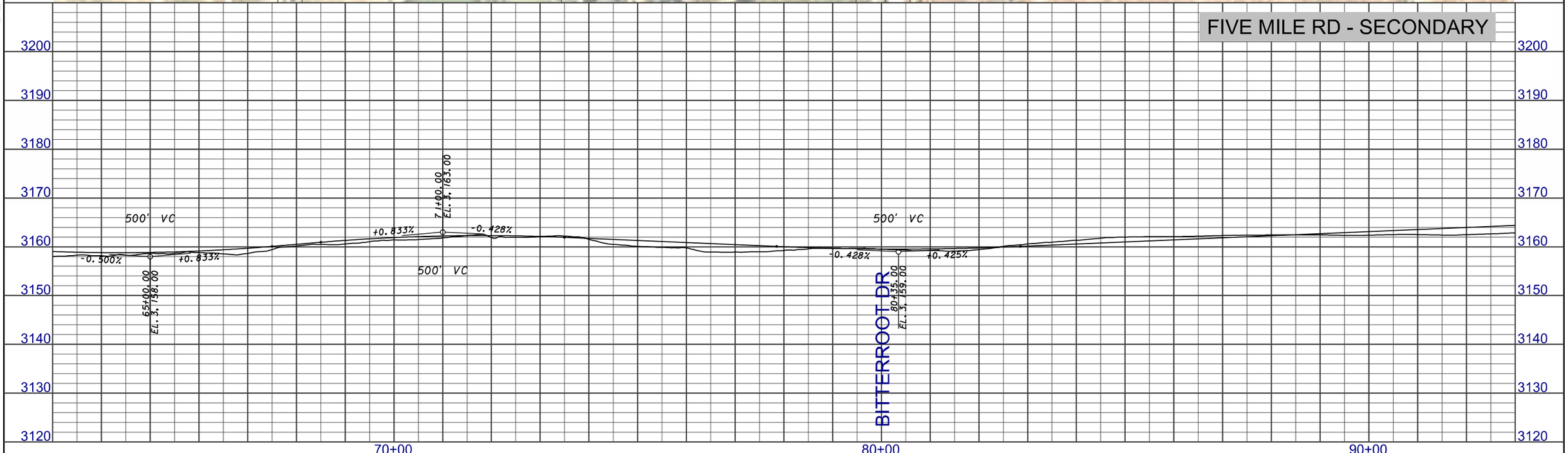
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\F\4199rdplpz01_F-2ND.dgn 8/19/2013 12:37:39 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-11



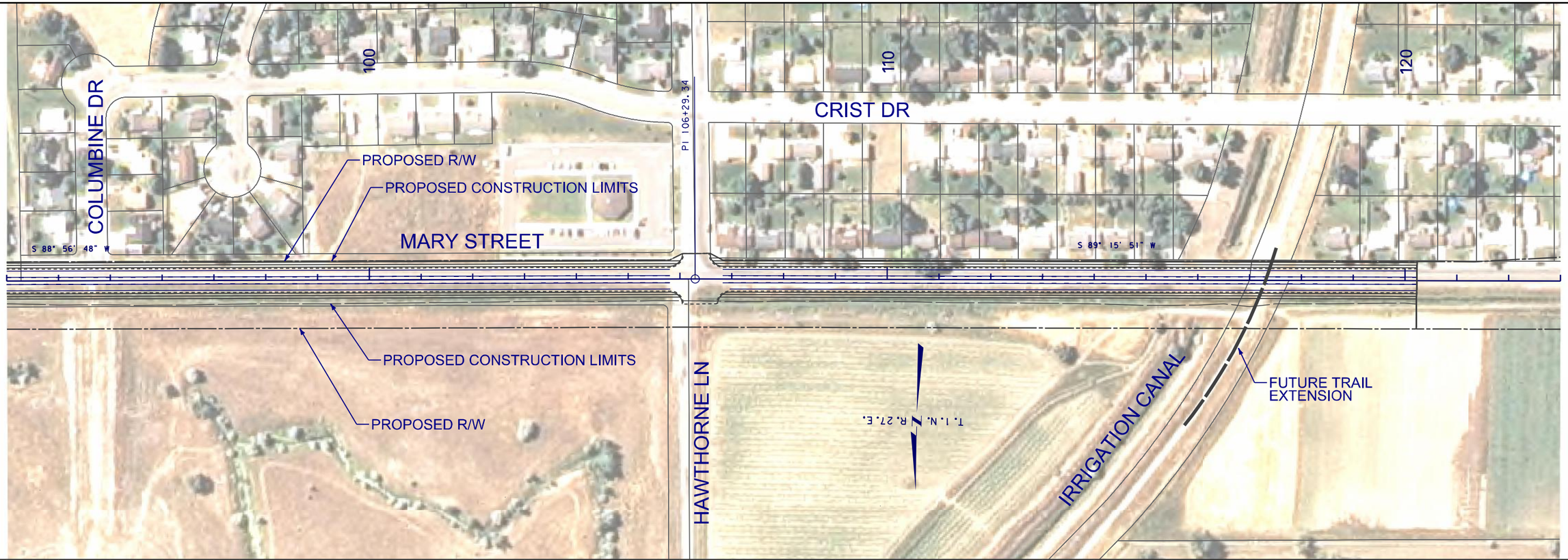
3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\F\4199rdplpz01_F-2ND.dgn 8/19/2013 12:37:57 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-12

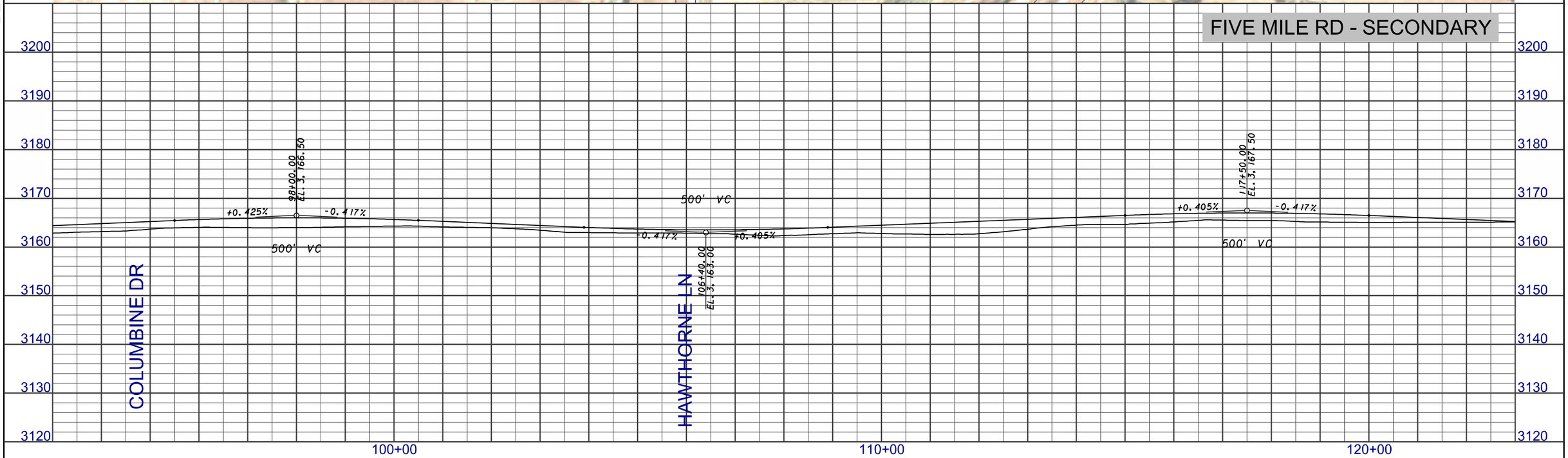
DOWL HKM





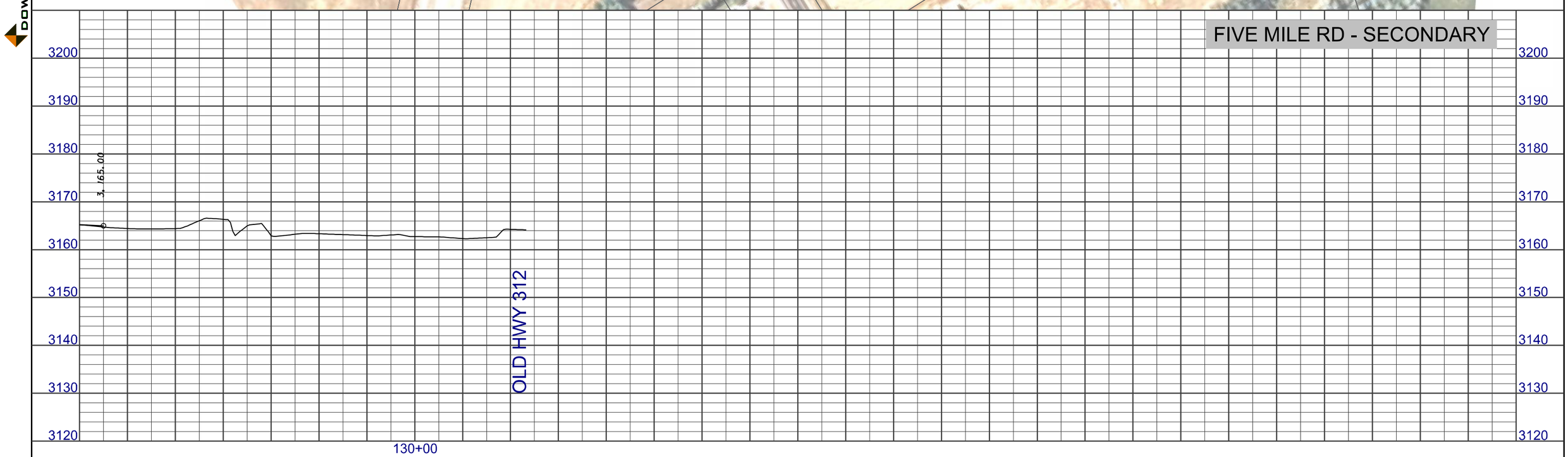
2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\F\4199rdplpz01_F-2ND.dgn 8/19/2013 12:38:15 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-13



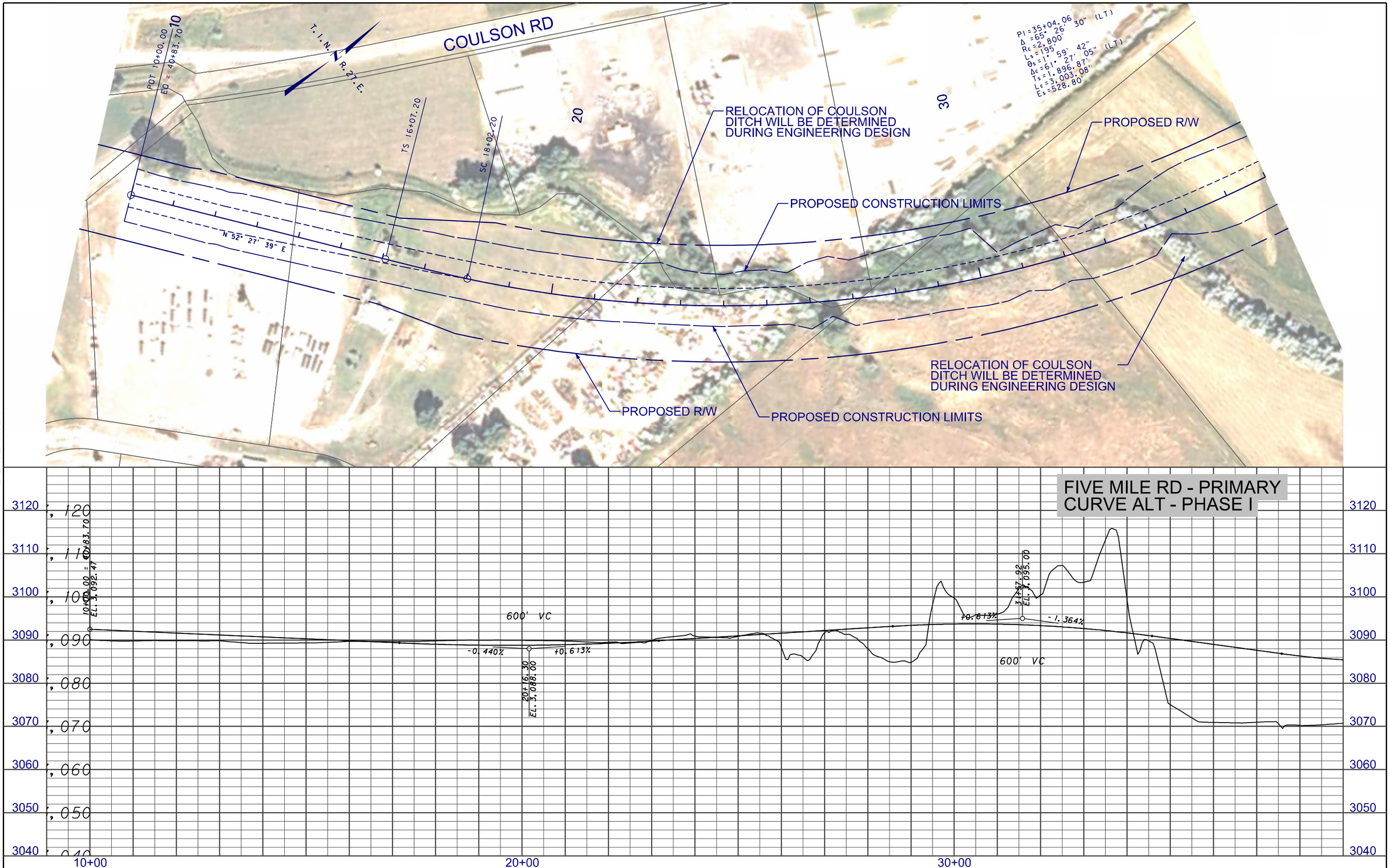


DOWL HKM

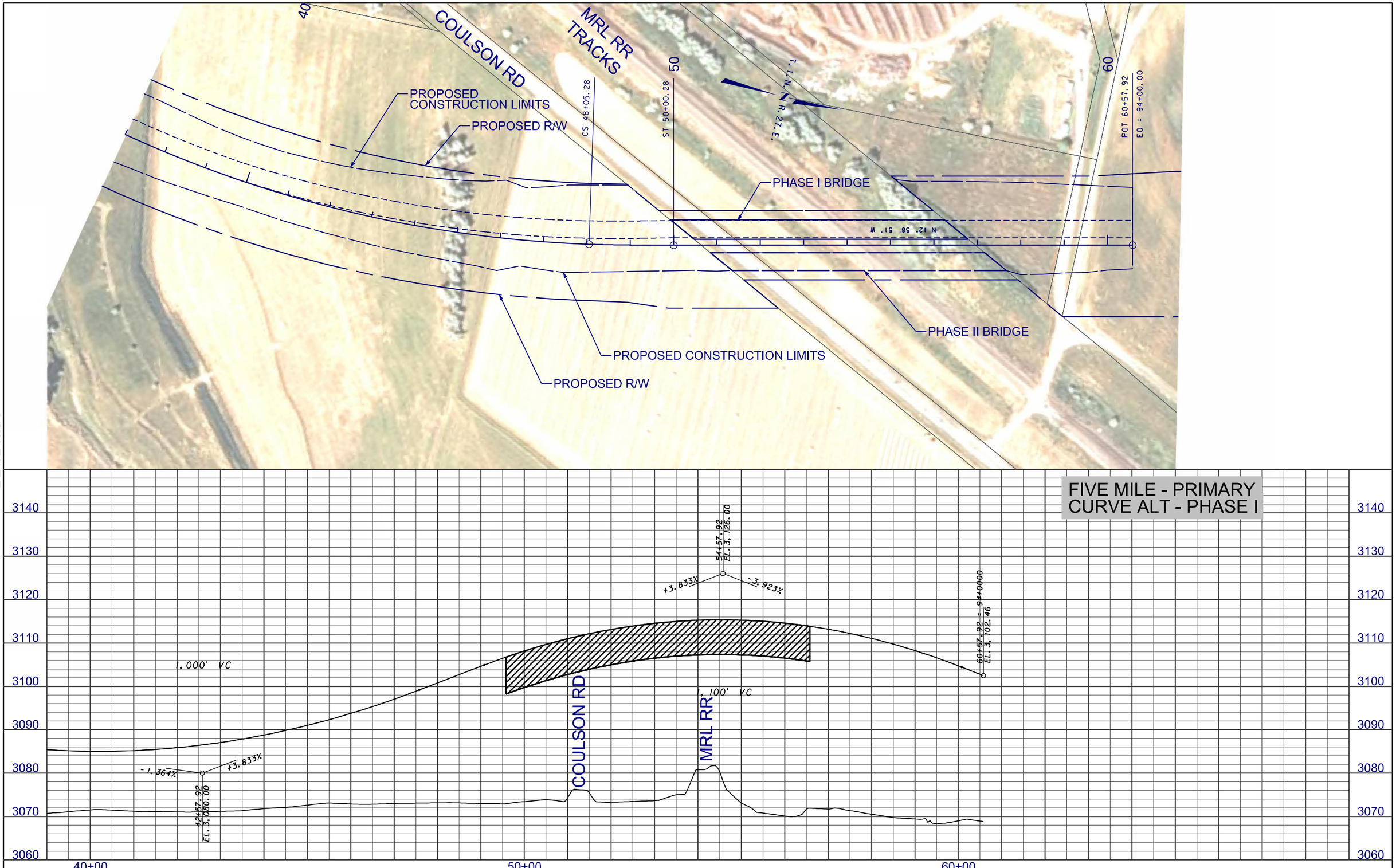
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\F\4199rdplpz02_F-2ND.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET F-14
		5:02:44 PM ngutierrez	CHECKED BY				



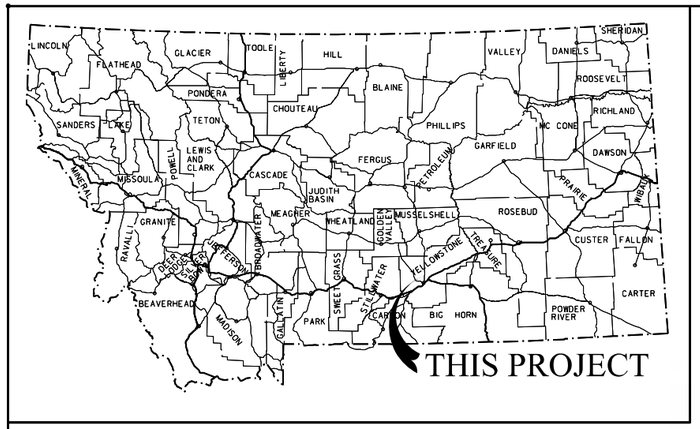
3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\RD\F\4199rdplpz02_F-2ND.dgn 8/23/2013 5:03:02 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-15



3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz04_F.dgn 8/23/2013 4:57:17 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-16



2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz04_F.dgn 8/23/2013 4:57:35 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-17



MONTANA DEPARTMENT OF TRANSPORTATION

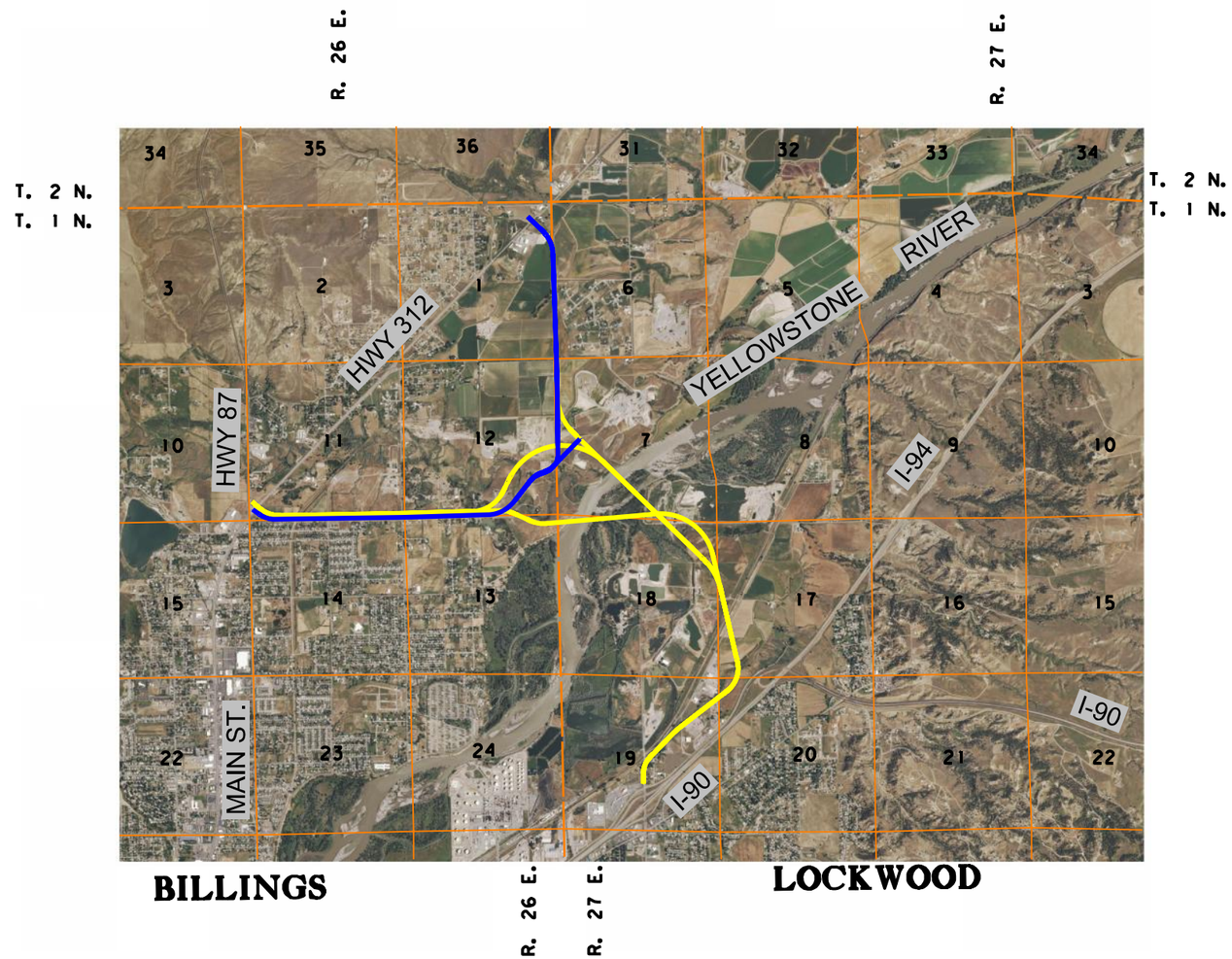
FEDERAL AID PROJECT NCPD 56(55)
BILLINGS BYPASS EIS
PRELIMINARY DESIGN ALTERNATIVES
PHASE II

YELLOWSTONE COUNTY

DESIGN DATA

CSF = N/A

SURFACING SOURCES - CONTRACTOR FURNISHED



DOWL HKM

PLANS PREPARED BY

DOWL HKM
GRANITE TOWER BUILDING
222 N. 32ND ST., SUITE 700
P.O. BOX 31318
BILLINGS, MT 59107-1318
406-656-6399
406-656-6398 (FAX)
DOWLHKM.COM

RELATED PROJECTS

ASSOCIATED PROJECT AGREEMENT NUMBERS

R / W & I.C.	
P. E.	

DOWL HKM

BY _____

DATE _____

MONTANA DEPARTMENT OF TRANSPORTATION

RECEIVED :

BY _____ _____
CONSULTANT DESIGN ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED :

_____ _____
DIVISION ADMINISTRATOR DATE

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTTLZ02.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY
2		8/23/2013	REVIEWED BY		UPN 4199	
		10:56:22 AM ngutierrez	CHECKED BY			

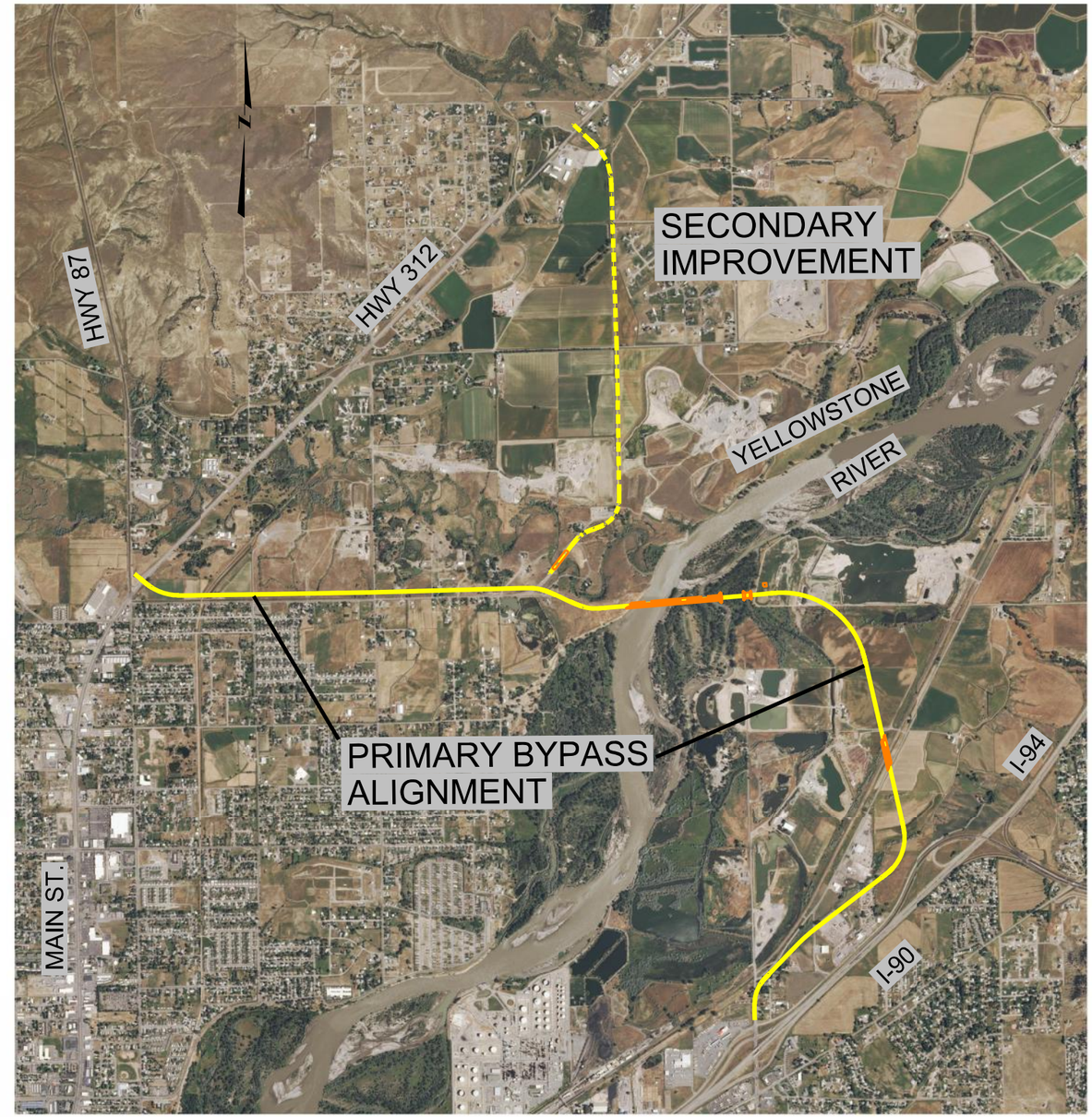
TABLE OF CONTENTS

ROAD PLANS	SHEET NO.
TITLE SHEET	1
TABLE OF CONTENTS	2
MARY ST OPTION 1 KEY MAP	2
MARY ST OPTION 2 KEY MAP	3
FIVE MILE RD KEY MAP	3
TYPICAL SECTIONS	4-6
EARTHWORK SUMMARY	7
PLAN & PROFILE	
MARY ST OPTION 1	M1-1 - M1-10
MARY ST OPTION 1, CURVE ALT	M1-11 - M1-12
MARY ST OPTION 2	M2-1 - M2-11
MARY ST OPTION 2, CURVE ALT	M2-12 - M2-13
FIVE MILE RD	F-1 - F-9
FIVE MILE RD, CURVE ALT	F-10 - F-11

CROSS SECTIONS	SHEET NO.
MARY ST OPTION 1	M1-1 - M1-85
MARY ST OPTION 2	M2-1 - M2-87
FIVE MILE RD	F-1 - F-77

MARY ST OPTION 1 ALIGNMENT ALTERNATIVE KEY MAP

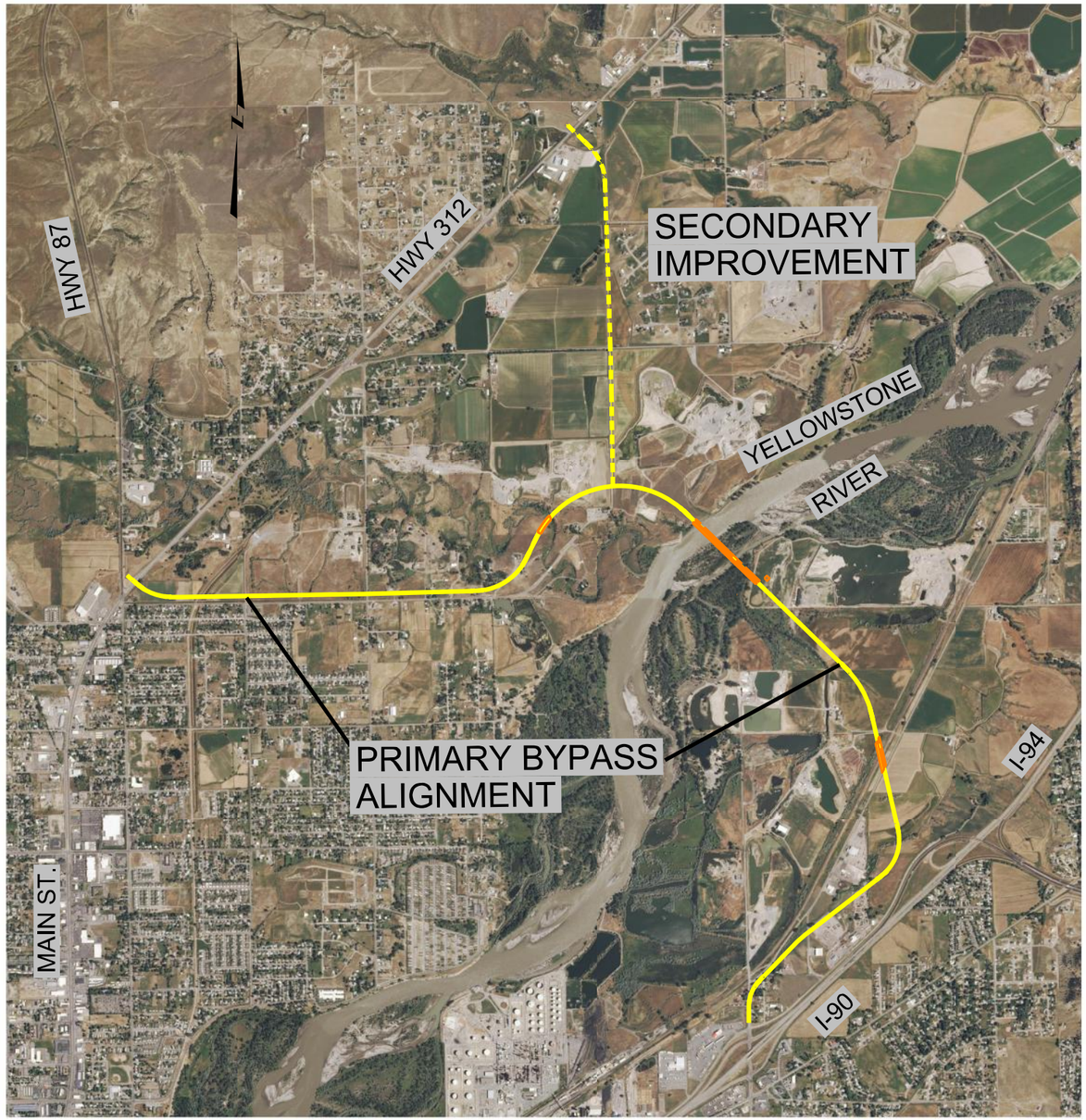
NOT TO SCALE



DOWL HKM

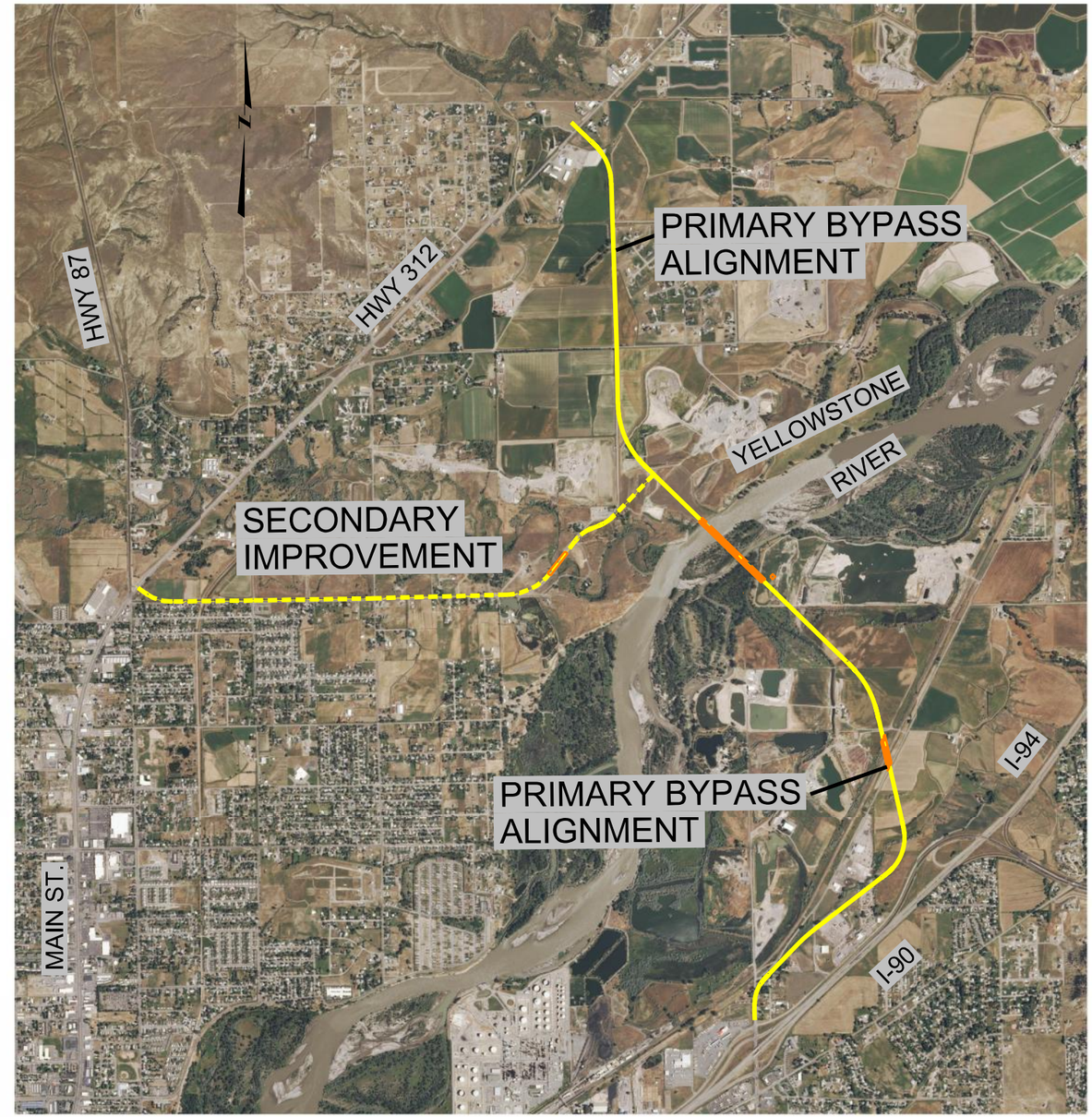
MARY ST OPTION 2
ALIGNMENT ALTERNATIVE KEY MAP

NOT TO SCALE



FIVE MILE RD
ALIGNMENT ALTERNATIVE KEY MAP

NOT TO SCALE

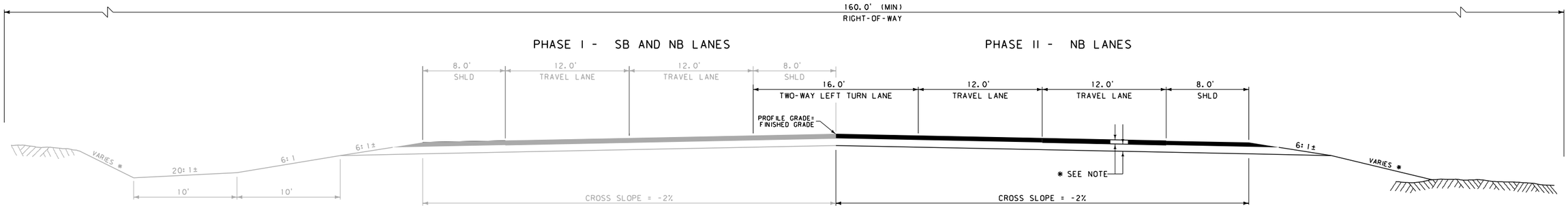


DOWL HKM

2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTTLZ02.dgn	DESIGNED BY			ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
		8/23/2013	REVIEWED BY						
1		10:56:57 AM ngutierrez	CHECKED BY			YELLOWSTONE COUNTY		UPN 4199	SHEET 3

NHS URBAN PRINCIPAL ARTERIAL PRIMARY

DESIGN SPEED: 55 MPH

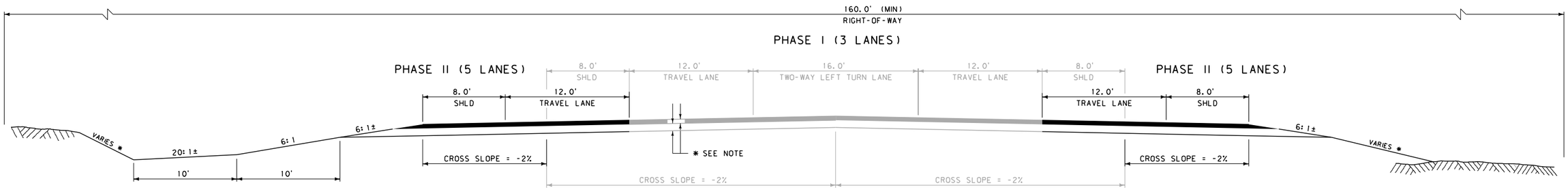


* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

NHS URBAN PRINCIPAL ARTERIAL PRIMARY

DESIGN SPEED: 55 MPH

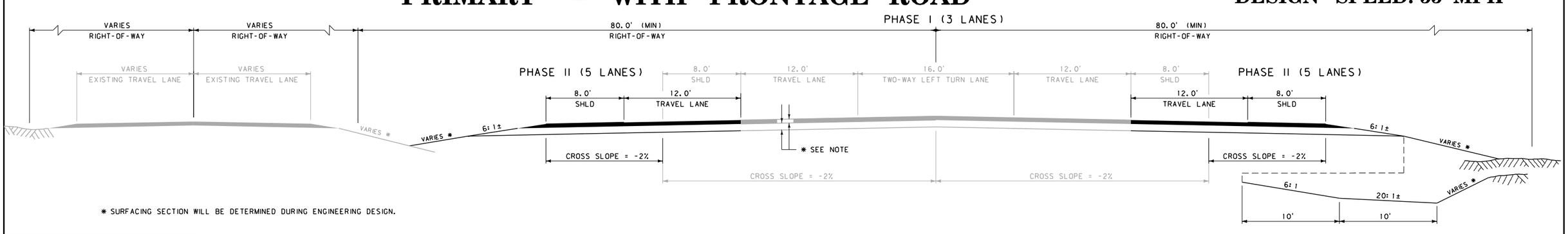


* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

NHS URBAN PRINCIPAL ARTERIAL PRIMARY – WITH FRONTAGE ROAD

DESIGN SPEED: 55 MPH



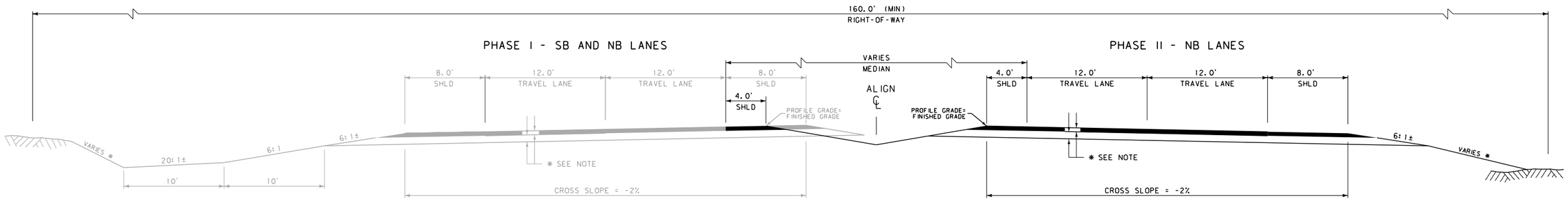
* SURFACING SECTION WILL BE DETERMINED DURING ENGINEERING DESIGN.

DOWL HKM

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTYPZ02.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY				
1		10:59:38 AM ngutierrez	CHECKED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET 4

NHS URBAN PRINCIPAL ARTERIAL
MARY ST – PRIMARY

DESIGN SPEED: 55 MPH

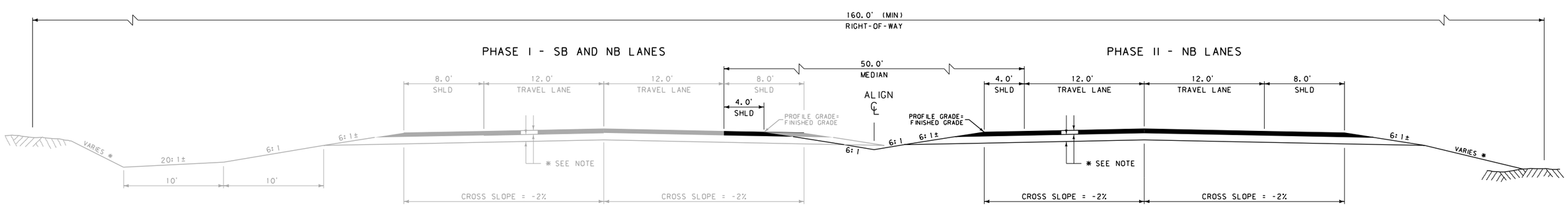


* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

NHS RURAL PRINCIPAL ARTERIAL
FIVE MILE RD – PRIMARY

DESIGN SPEED: 70 MPH (FLAT TERRAIN), 60 MPH (ROLLING TERRAIN)



* SURFACING SECTION WILL BE DETERMINED DURING ENGINEERING DESIGN.

DOWL HKM

3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTYPZ02.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY					
1		10:59:46 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET 5

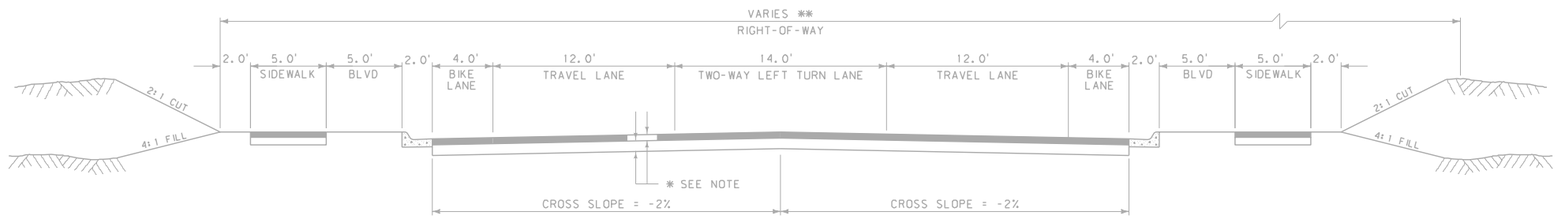
PHASE I CONSTRUCTION

URBAN SECONDARY COLLECTOR
MARY ST – SECONDARY

DESIGN SPEED: 45 MPH

CITY OF BILLINGS – PRINCIPAL ARTERIAL

PHASE I



** PER CURRENT CITY OF BILLINGS SUBDIVISION REGULATIONS:
PRINCIPAL ARTERIAL = 130'
MINOR ARTERIAL = 100'

* FILL SLOPES	
0' - 10'	6:1
10' - 20'	4:1
20' - 30'	3:1
OVER 30'	2:1

* BACK SLOPES	
0' - 5'	5:1
5' - 10'	4:1
10' - 15'	3:1
15' - 20'	2:1
OVER 20'	1.5:1

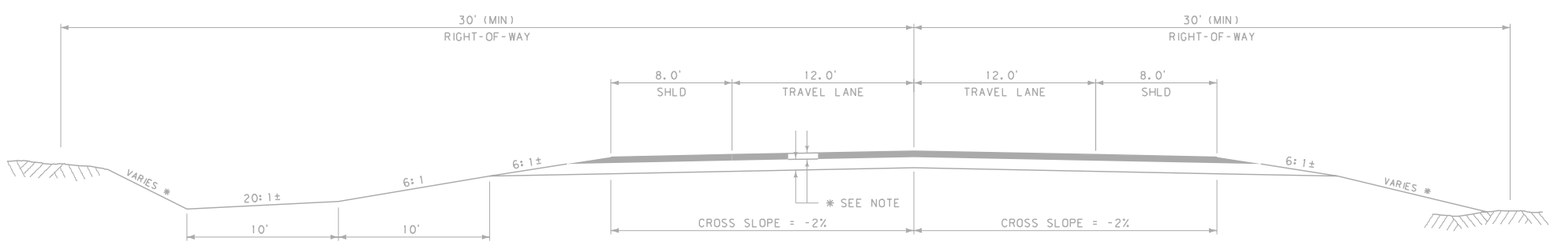
DOWL HKM

PHASE I CONSTRUCTION

RURAL SECONDARY COLLECTOR
FIVE MILE RD – SECONDARY

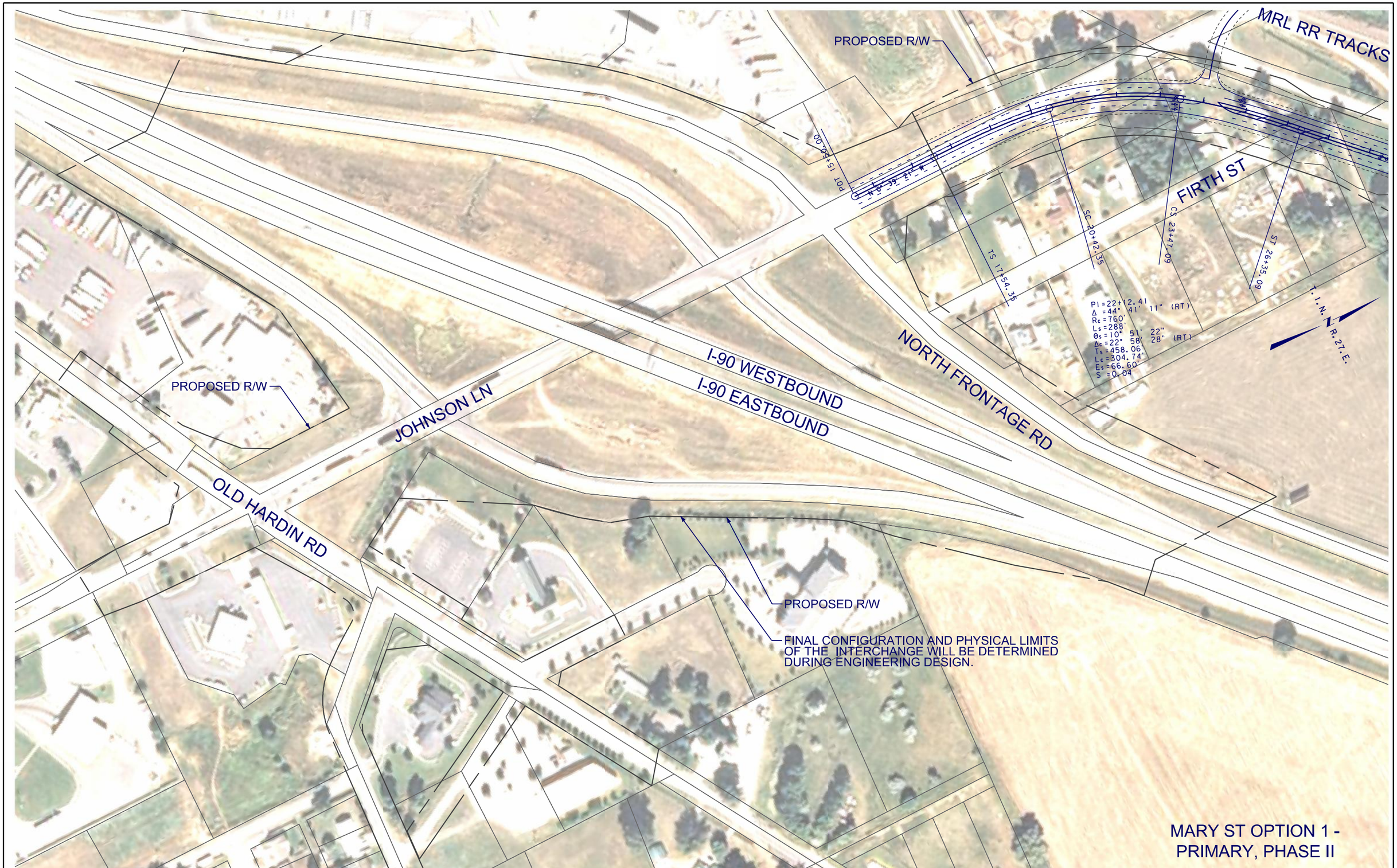
DESIGN SPEED: 60 MPH
(FLAT TERRAIN)

PHASE I

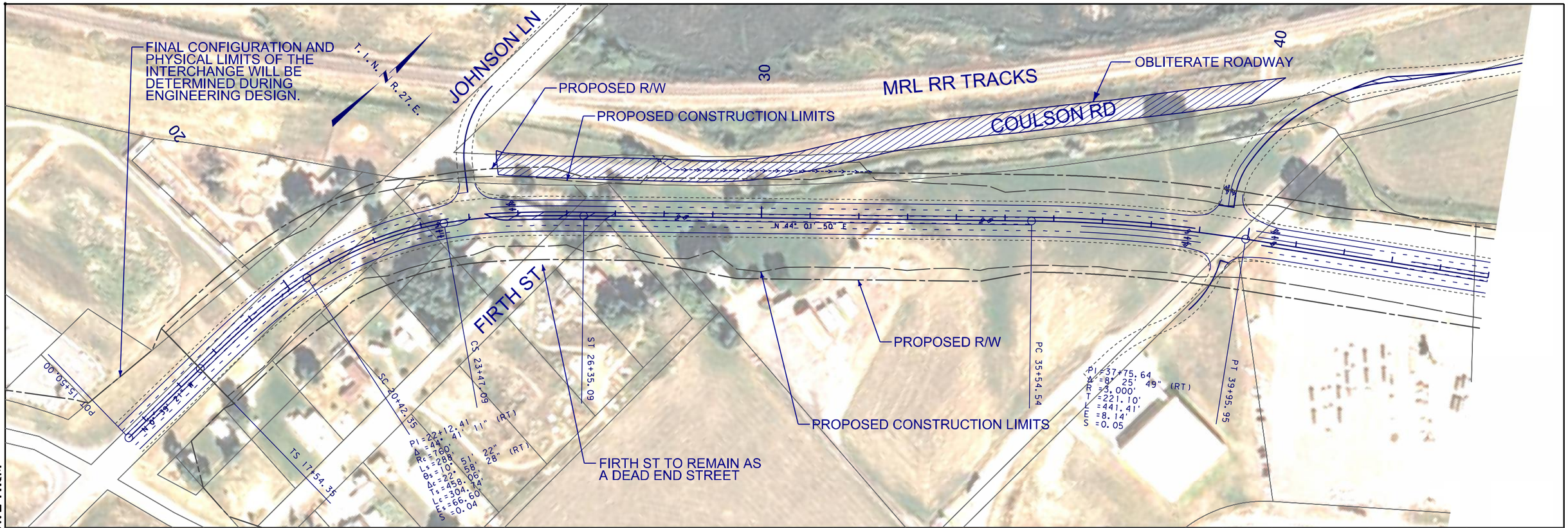


* SURFACING SECTION WILL BE DETERMINED DURING ENGINEERING DESIGN.

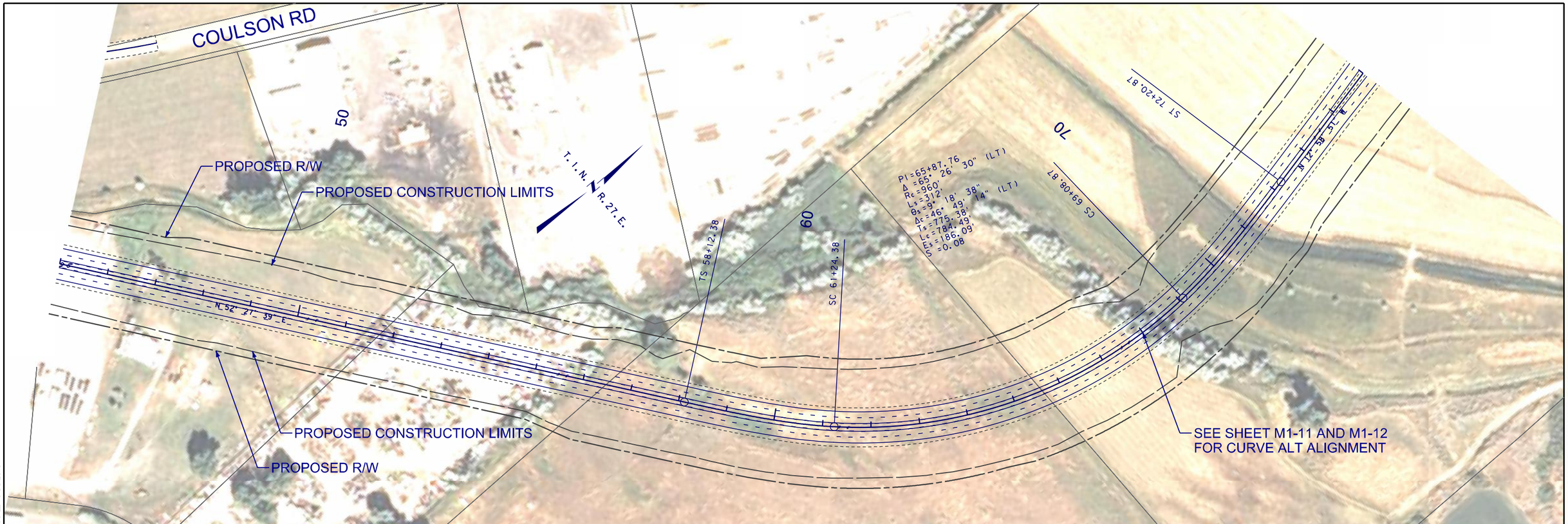
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\03\4199\RD\4199RDTYPZ02.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY					
1		10:59:54 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET 6



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplnZ11_M1.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY					
		11:23:38 AM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M1-1

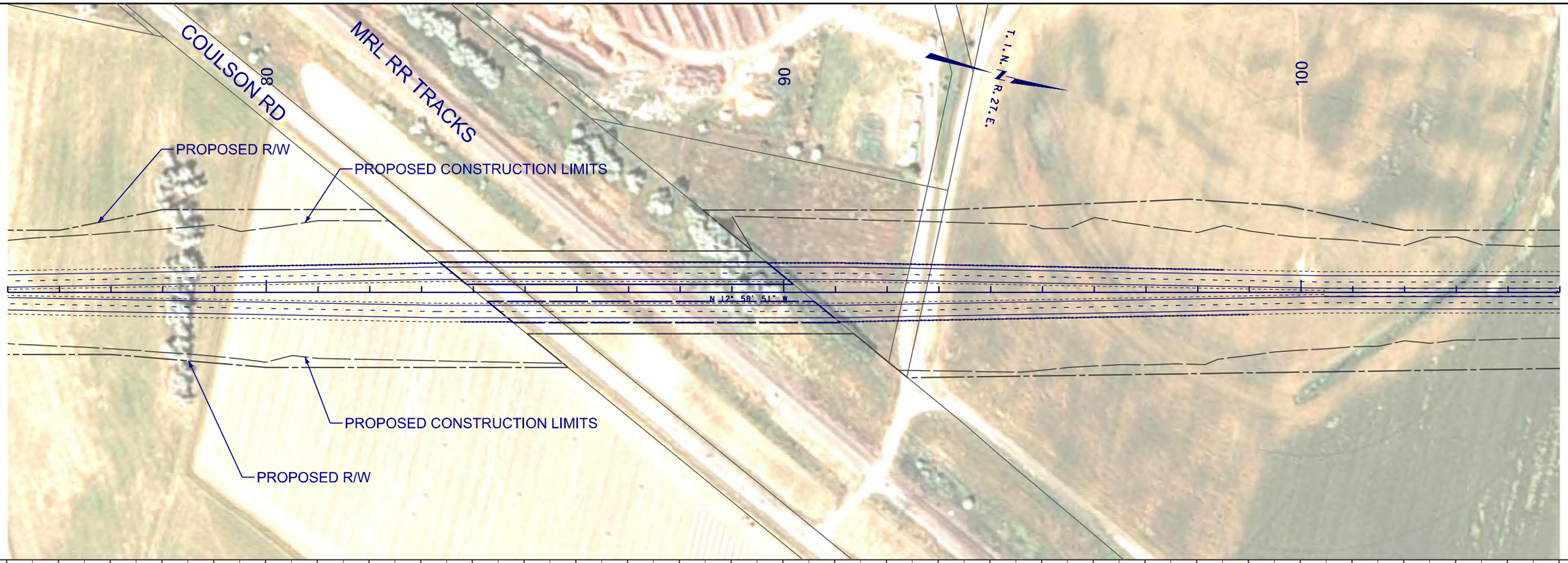


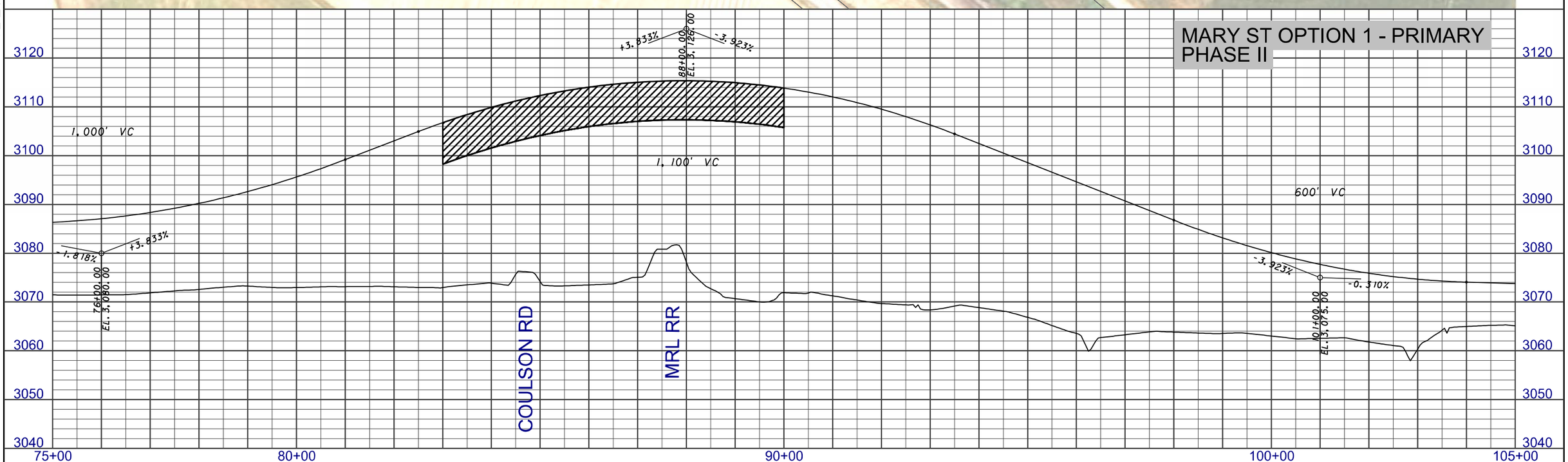
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz11_M1.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS - BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET M1-2
		11:04:06 AM ngutierrez	CHECKED BY				



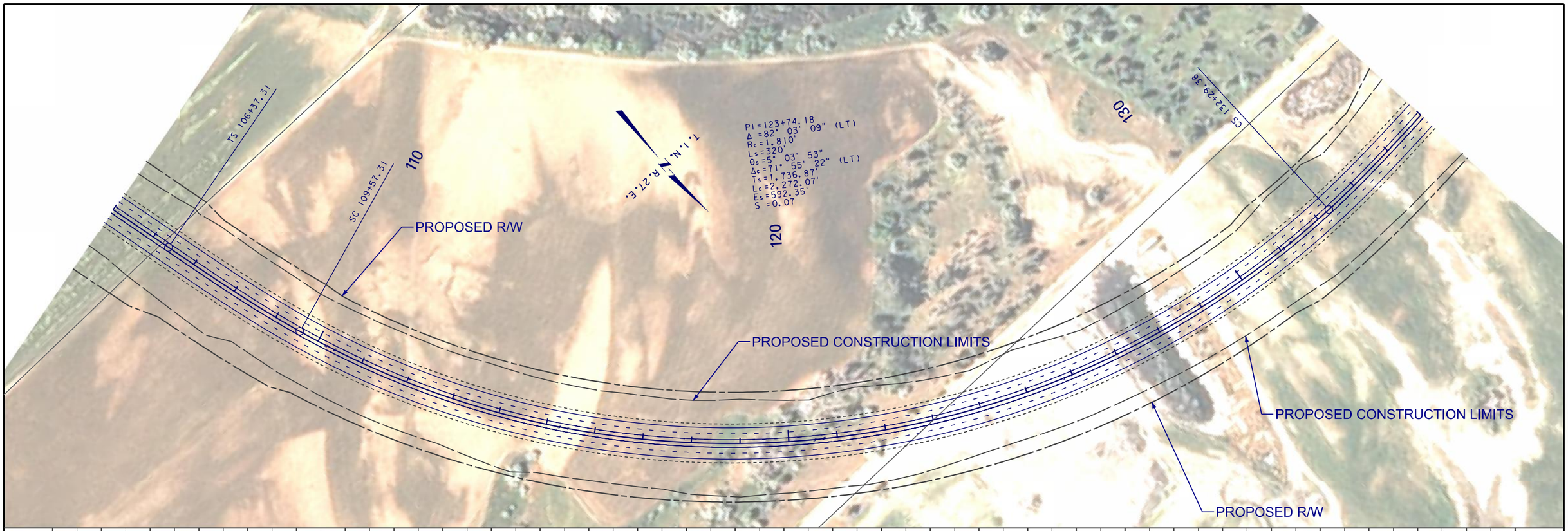
DOWL HKM

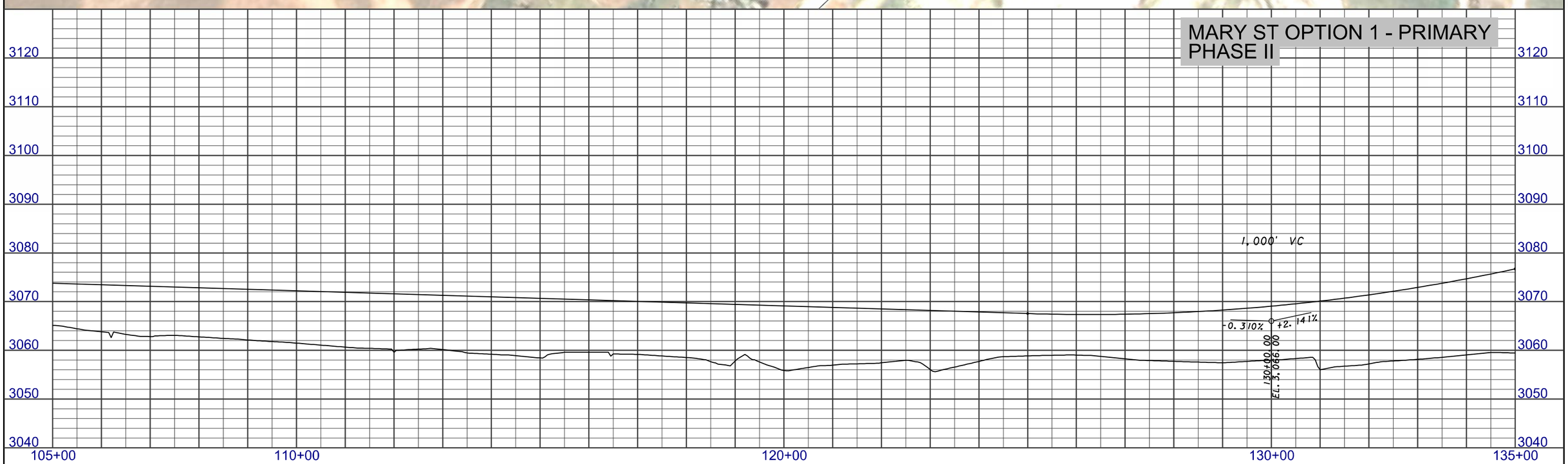
3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz11_M1.dgn 8/23/2013 11:04:25 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199 / NCPD 56(55) SHEET M1-3



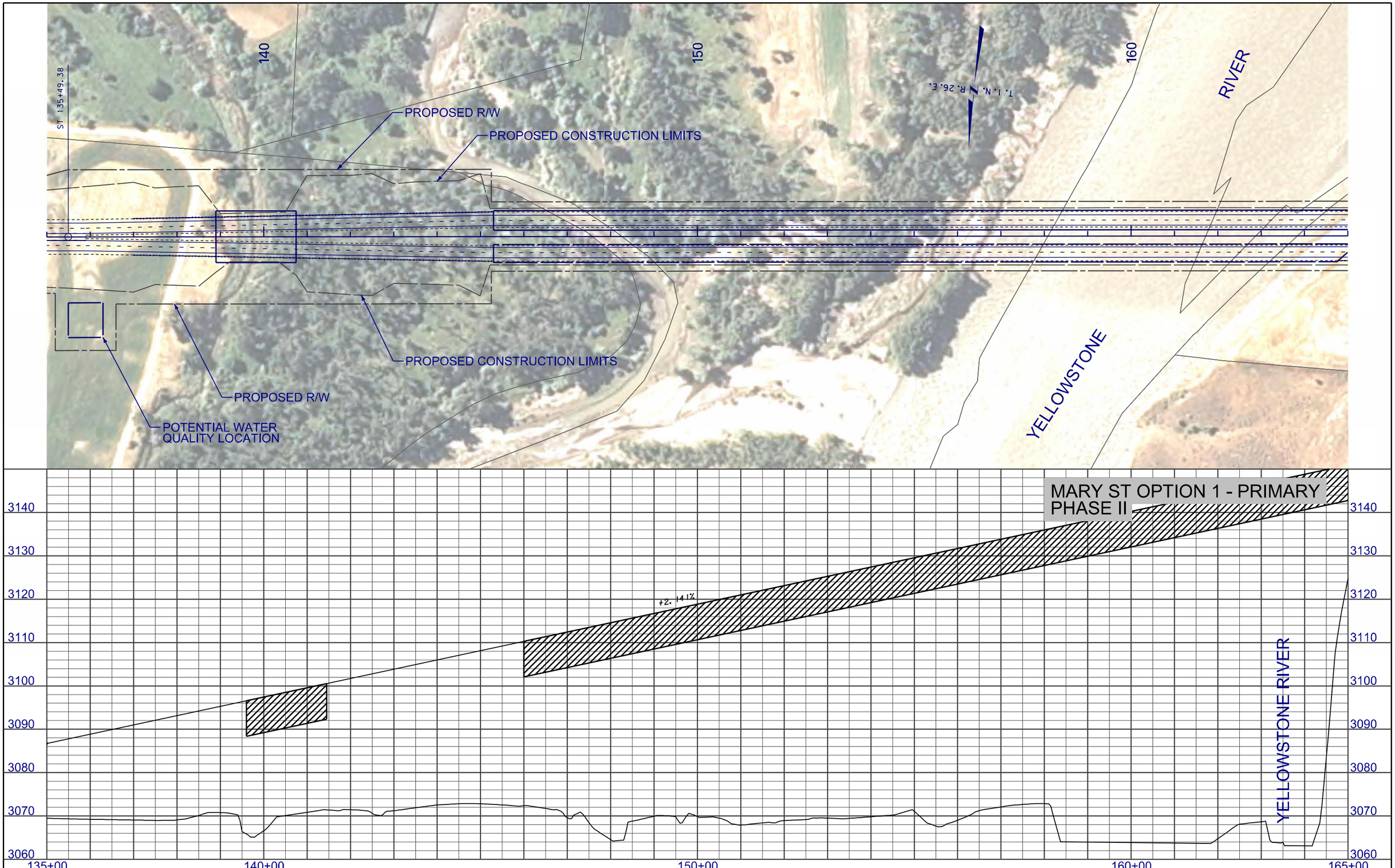


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz11_M1.dgn 8/23/2013 11:04:42 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-4

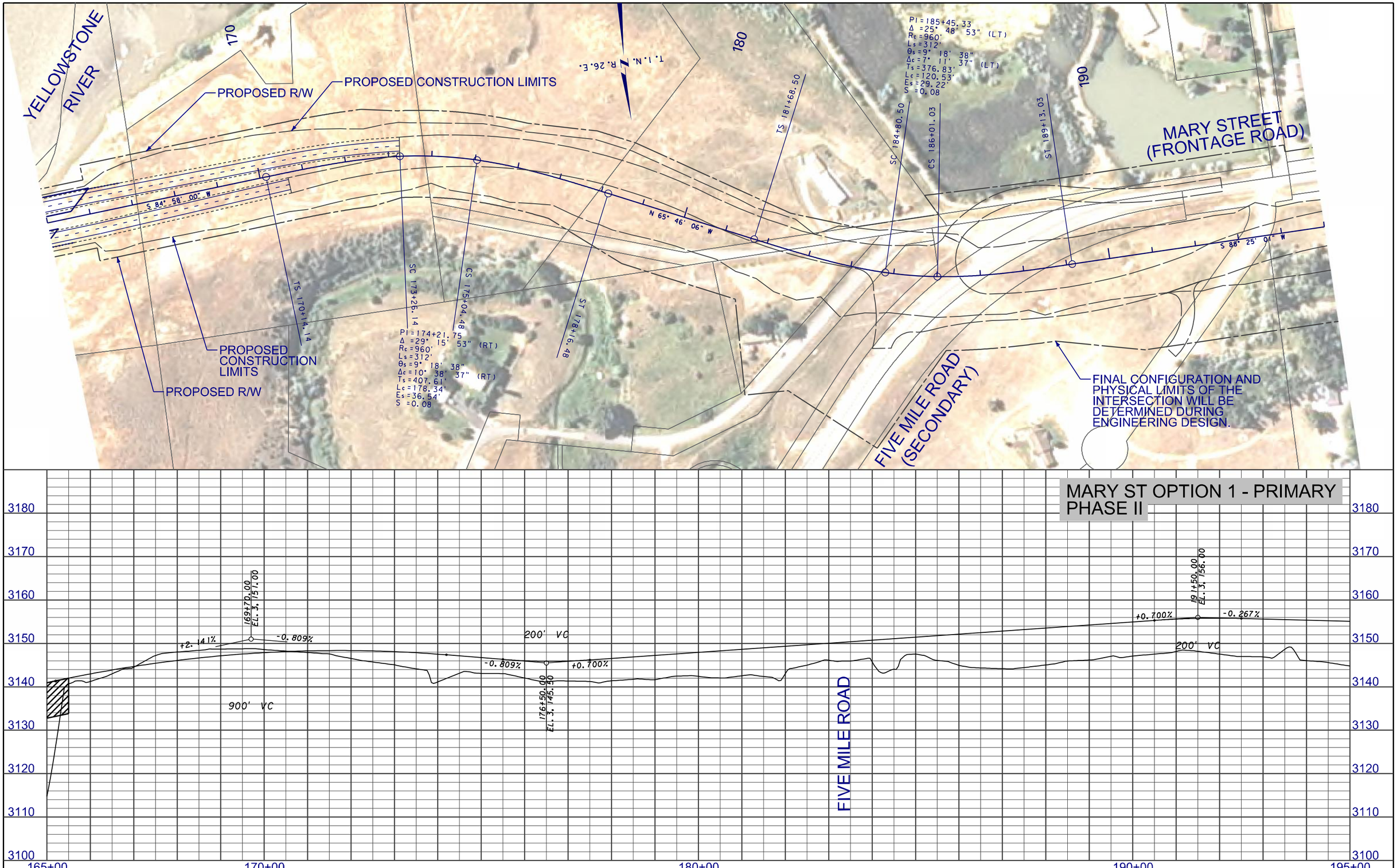




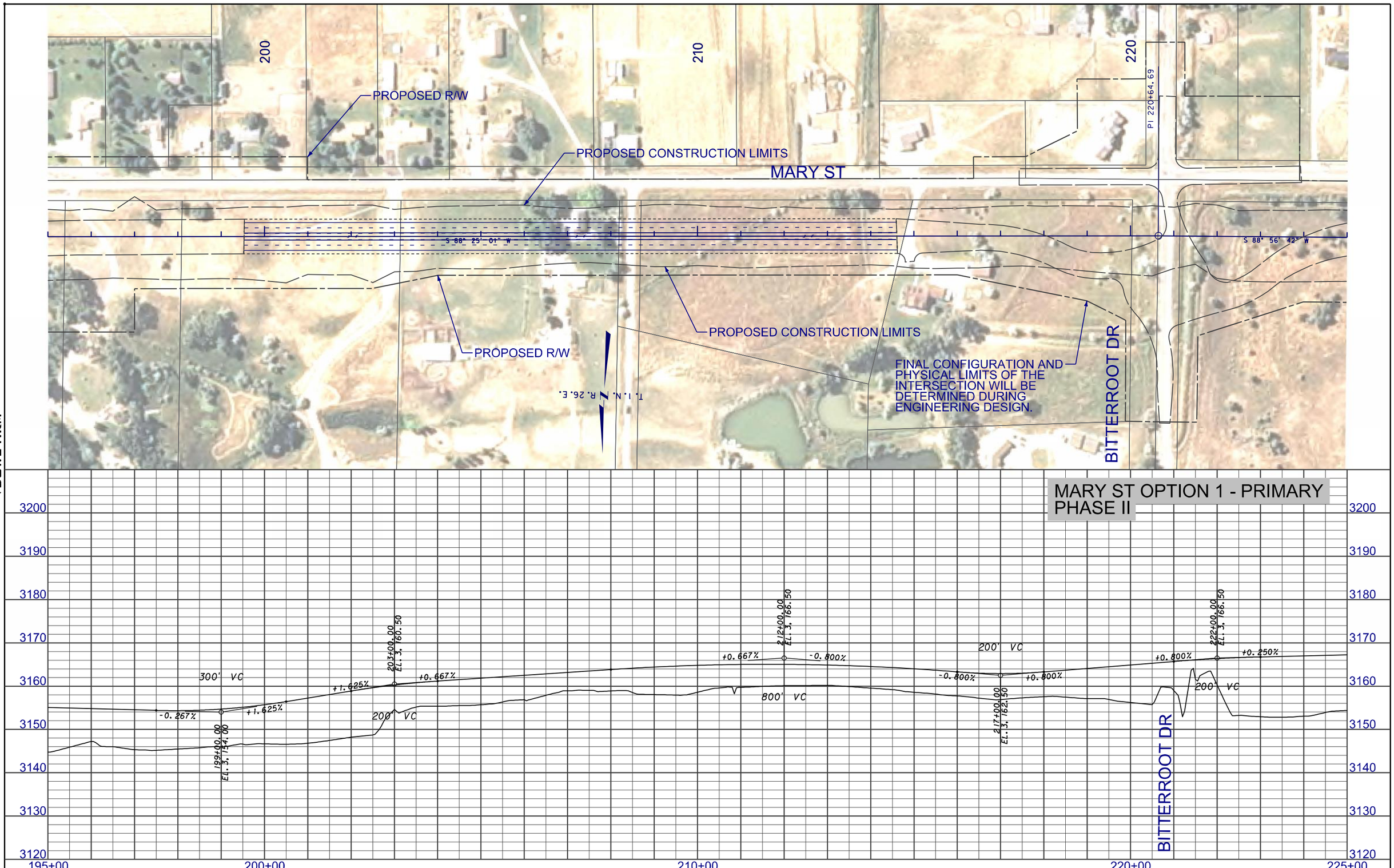
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz12_M1.dgn 8/23/2013 3:56:48 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY
BILLINGS - BYPASS EIS	UPN 4199	NCPD 56(55)	SHEET M1-5		



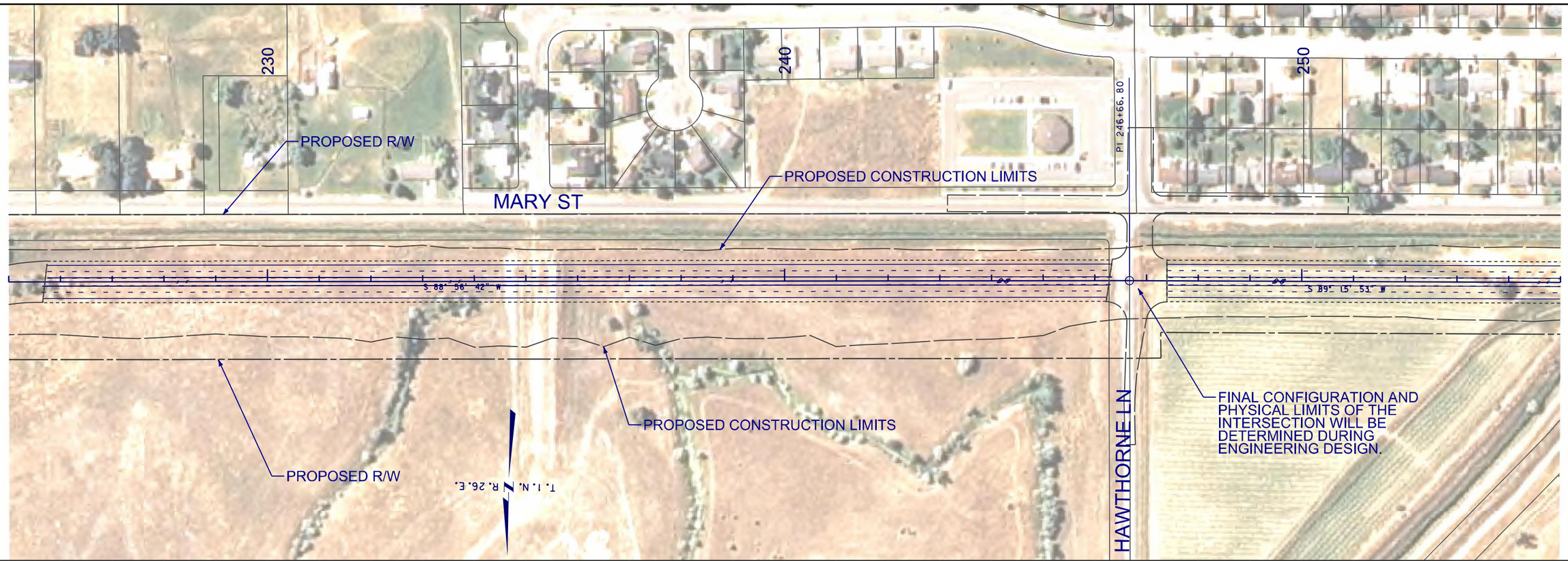
3 / 1 MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz12_M1.dgn 8/23/2013 3:57:06 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-6

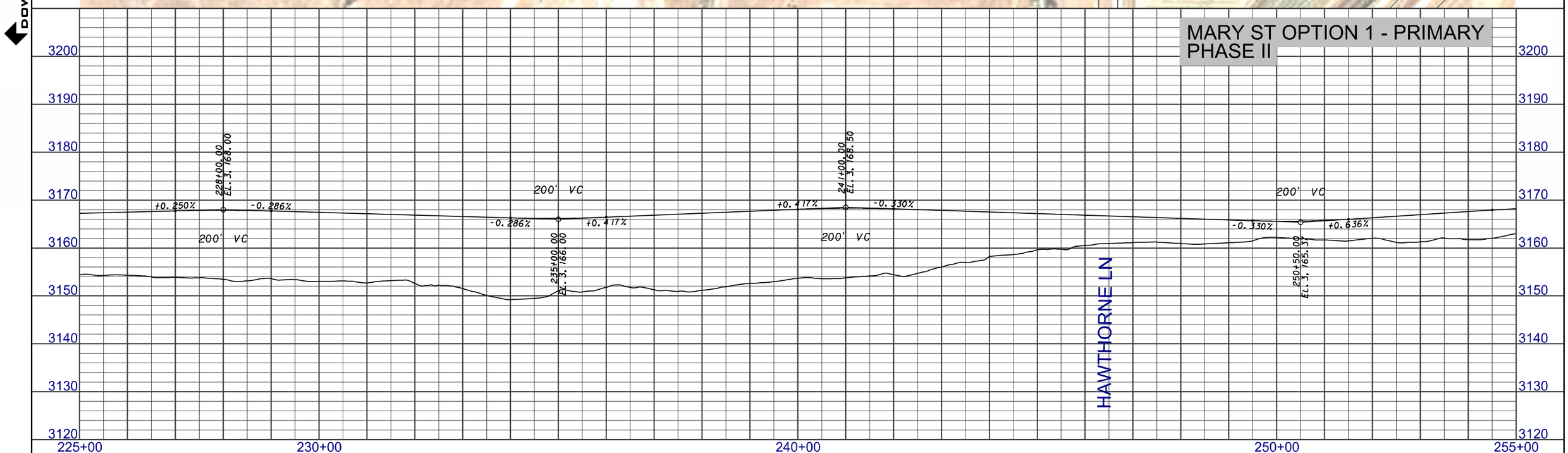


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz12_M1.dgn 8/23/2013 3:57:24 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-7

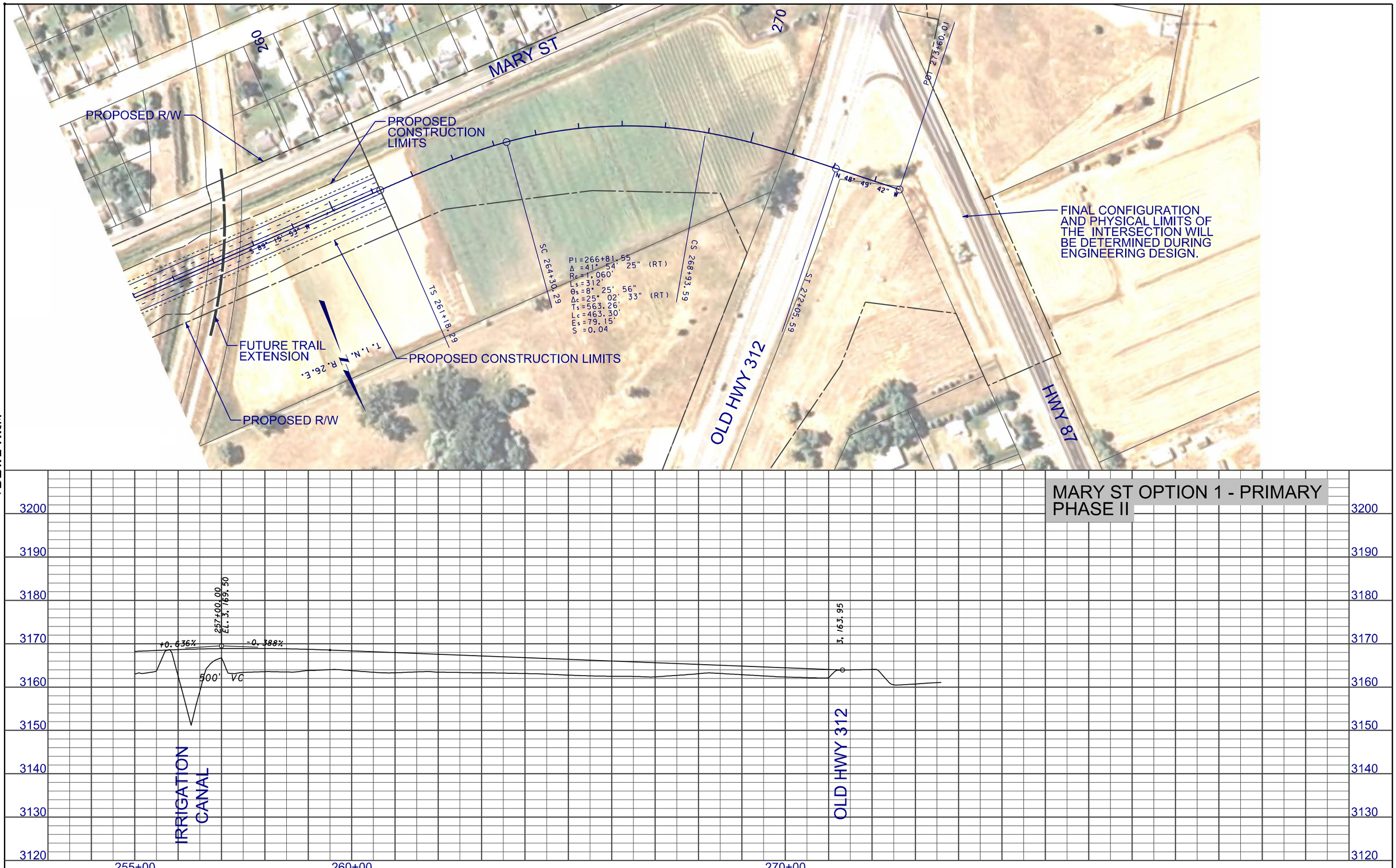


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz13_M1.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS - BYPASS EIS	NCPD 56(55)
2		8/23/2013	REVIEWED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M1-8
		4:01:14 PM ngutierrez	CHECKED BY					

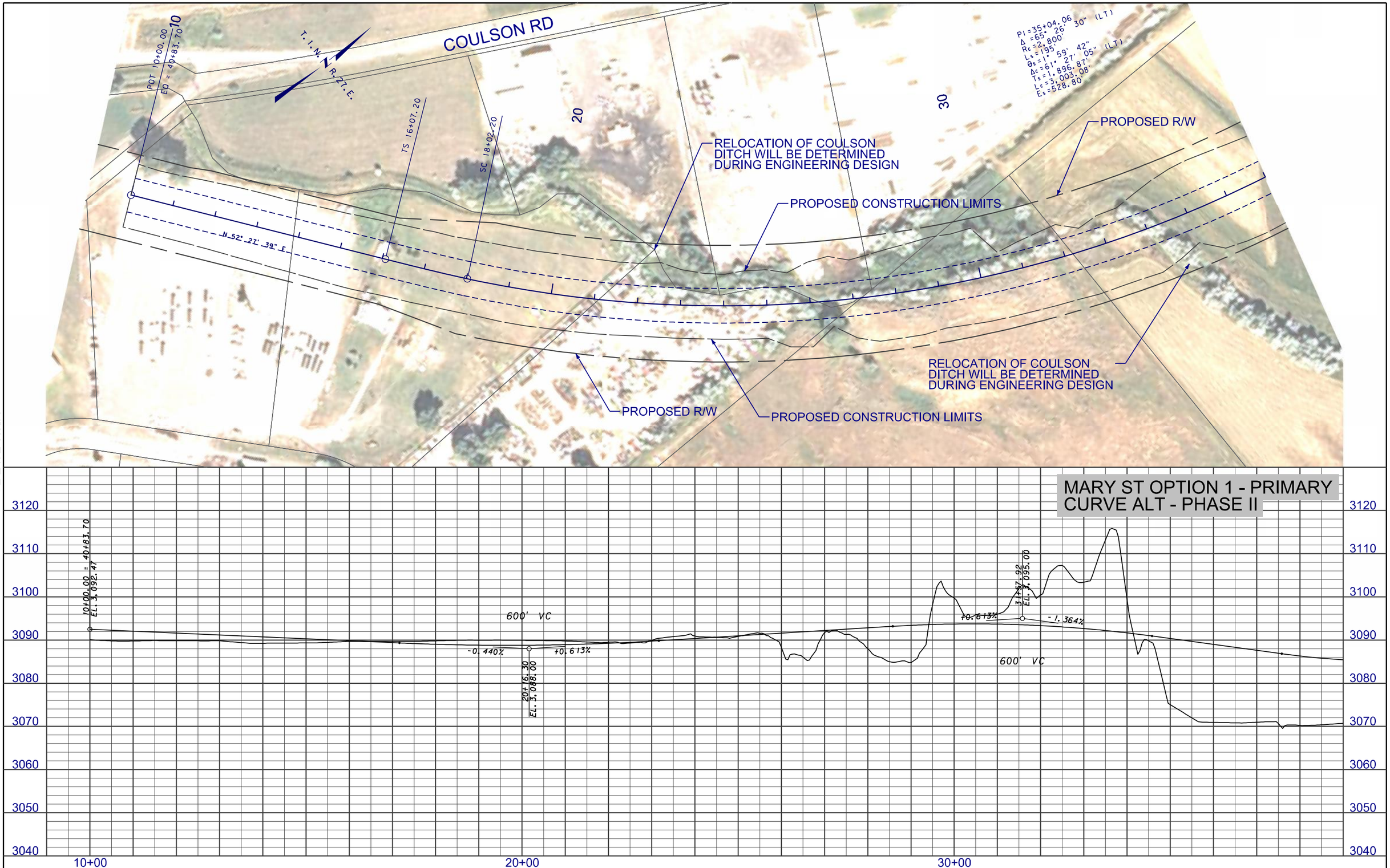




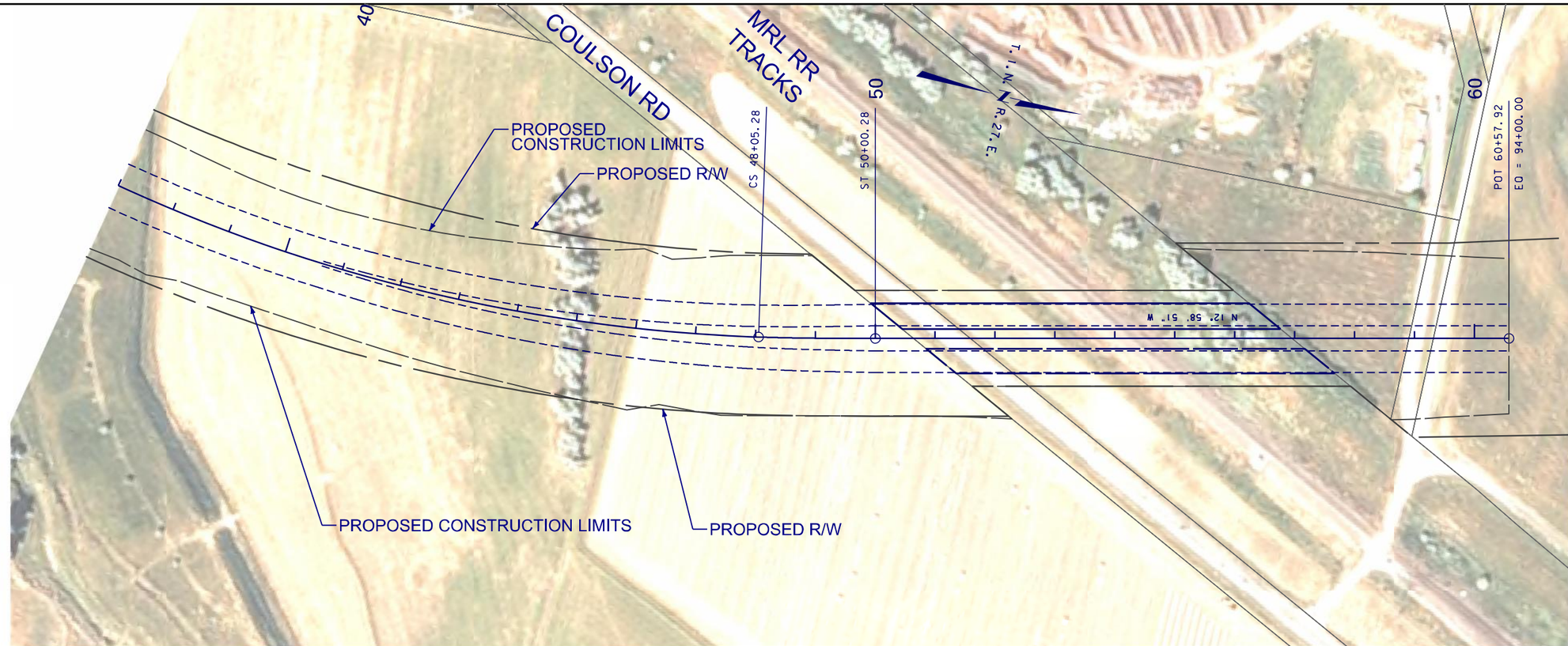
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz13_M1.dgn 8/23/2013 4:01:32 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-9

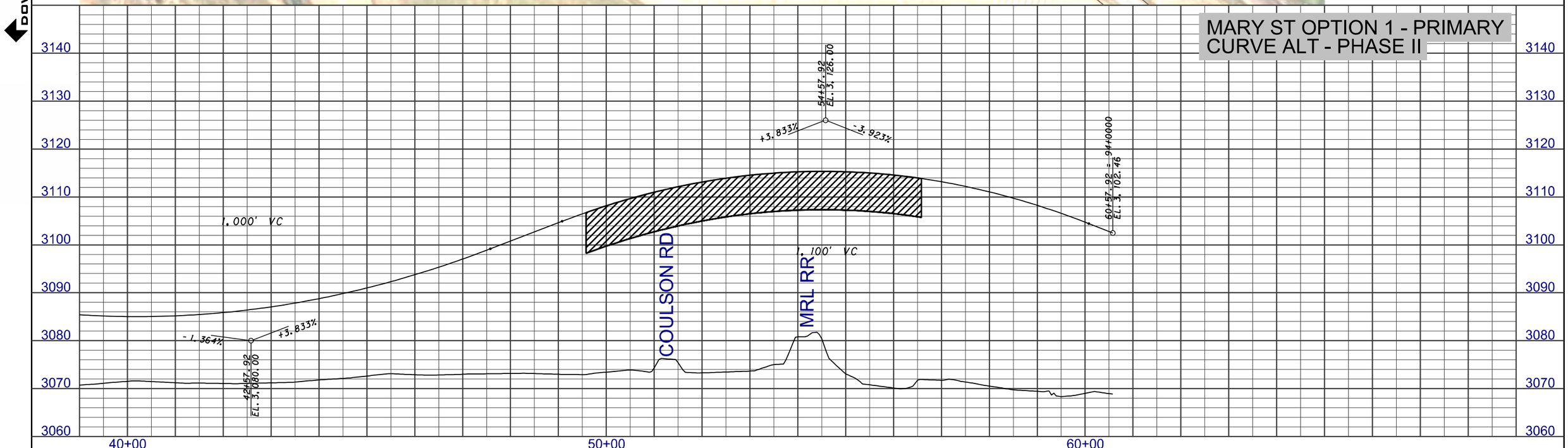


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz13_M1.dgn 8/23/2013 4:01:50 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199 / NCPD 56(55) SHEET M1-10

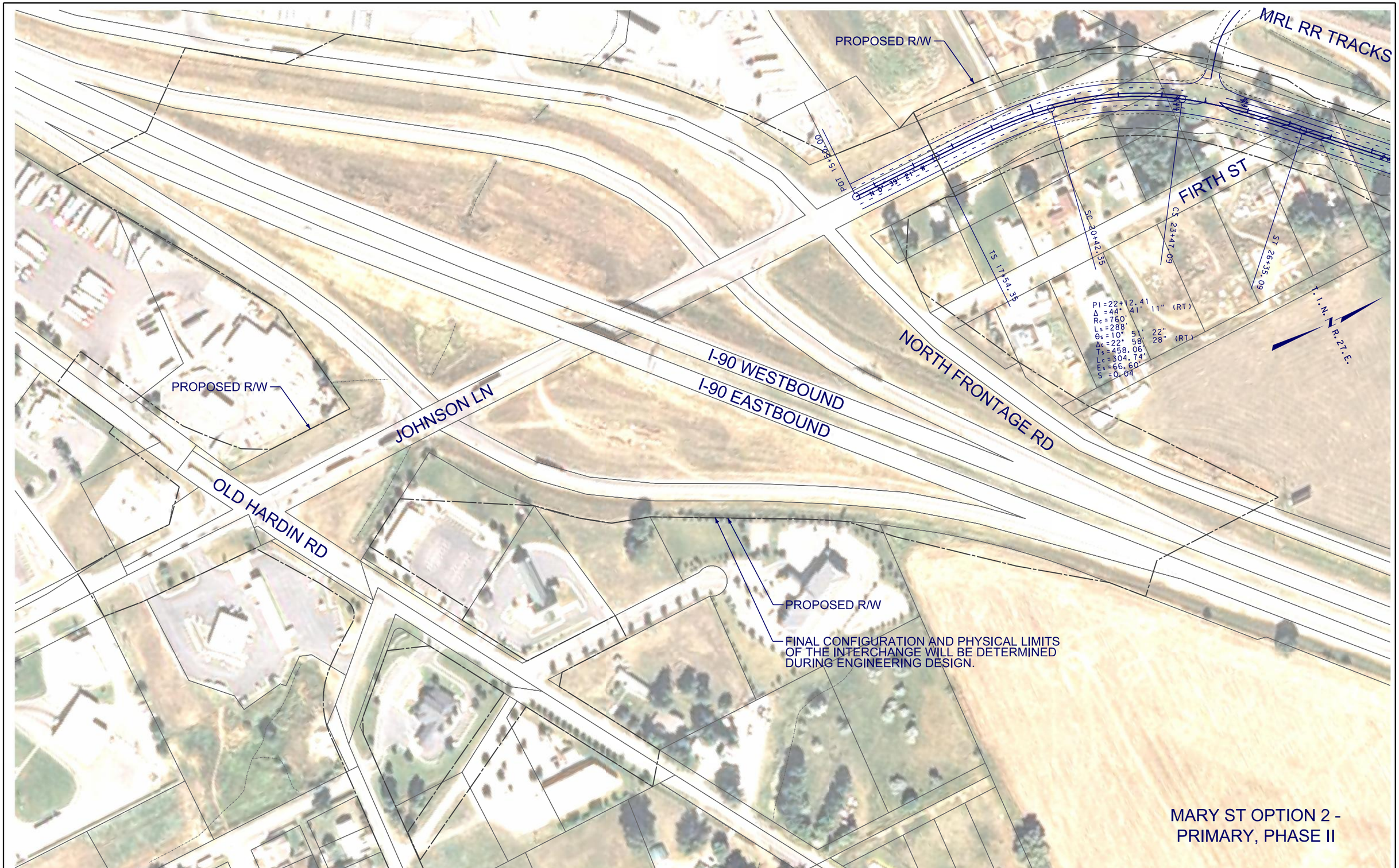


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz14_M1.dgn 8/23/2013 11:26:49 AM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-11

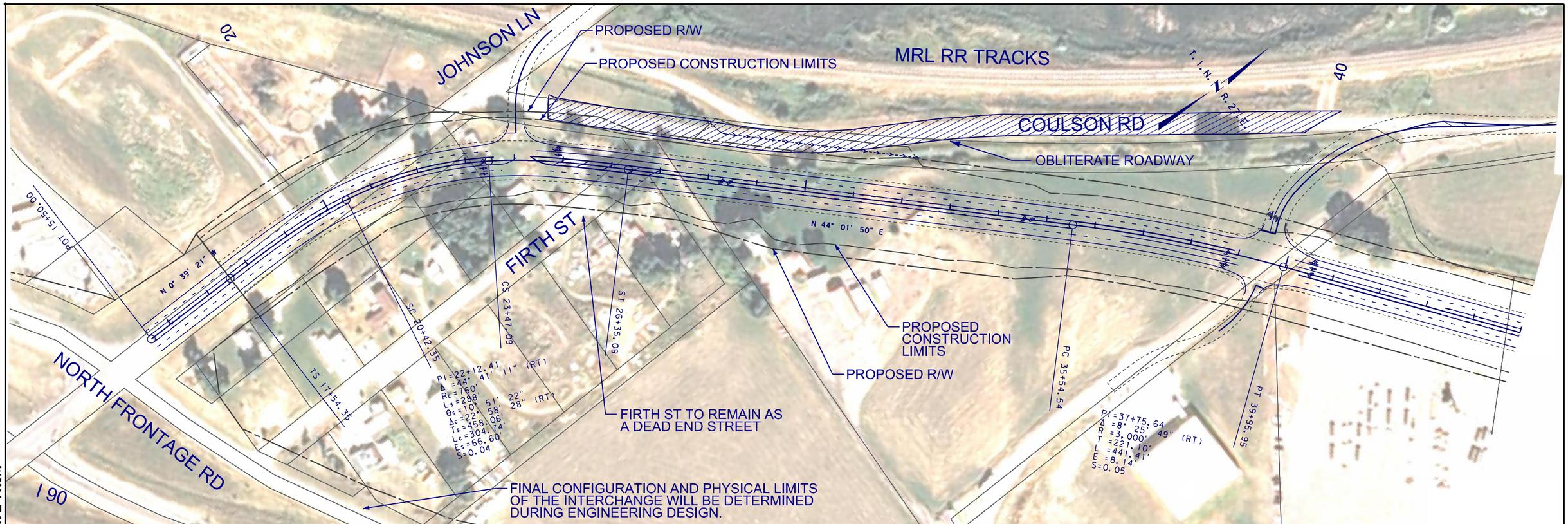


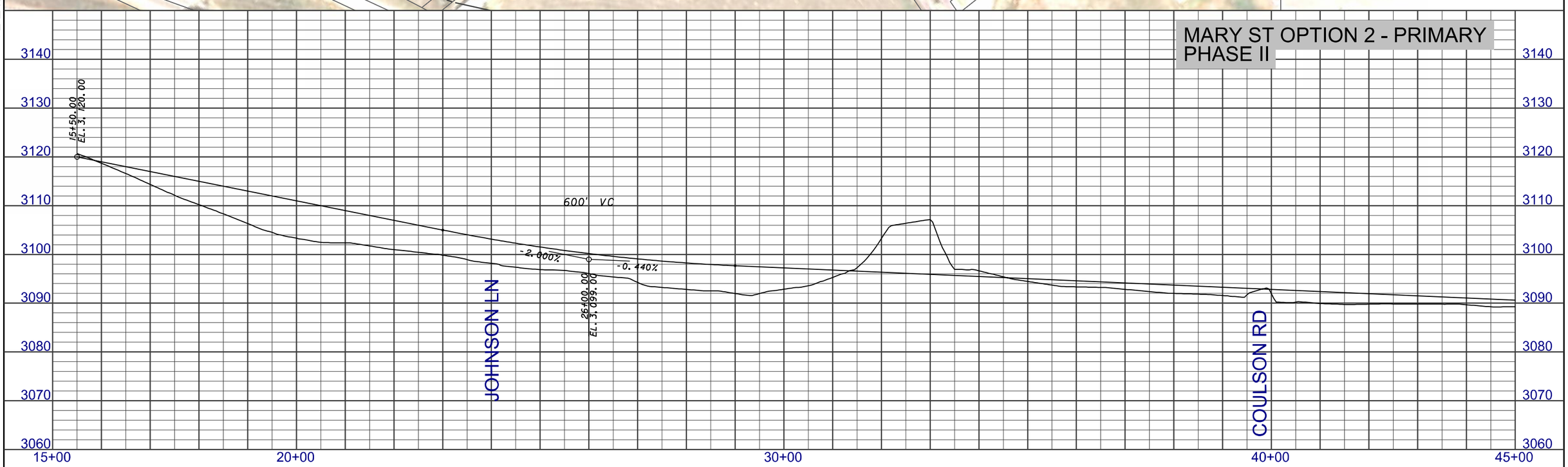


2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M1\4199rdplpz14_M1.dgn 8/23/2013 11:27:07 AM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M1-12

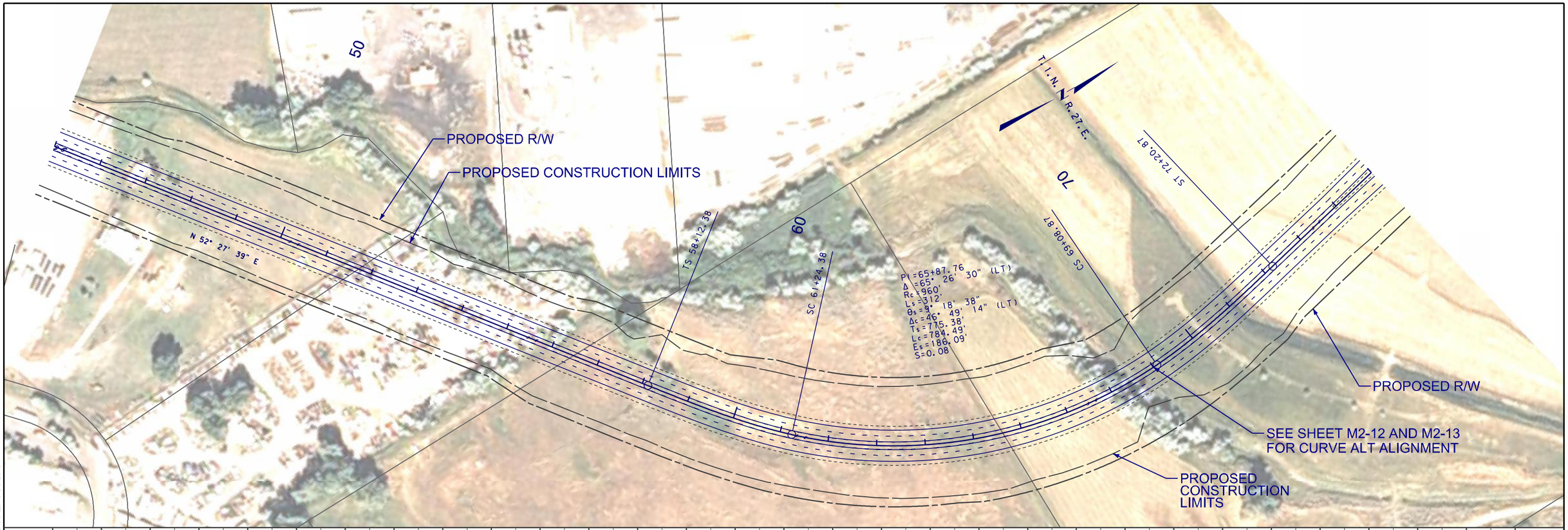


3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplnZ11_M2.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY					
		12:05:44 PM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M2-1

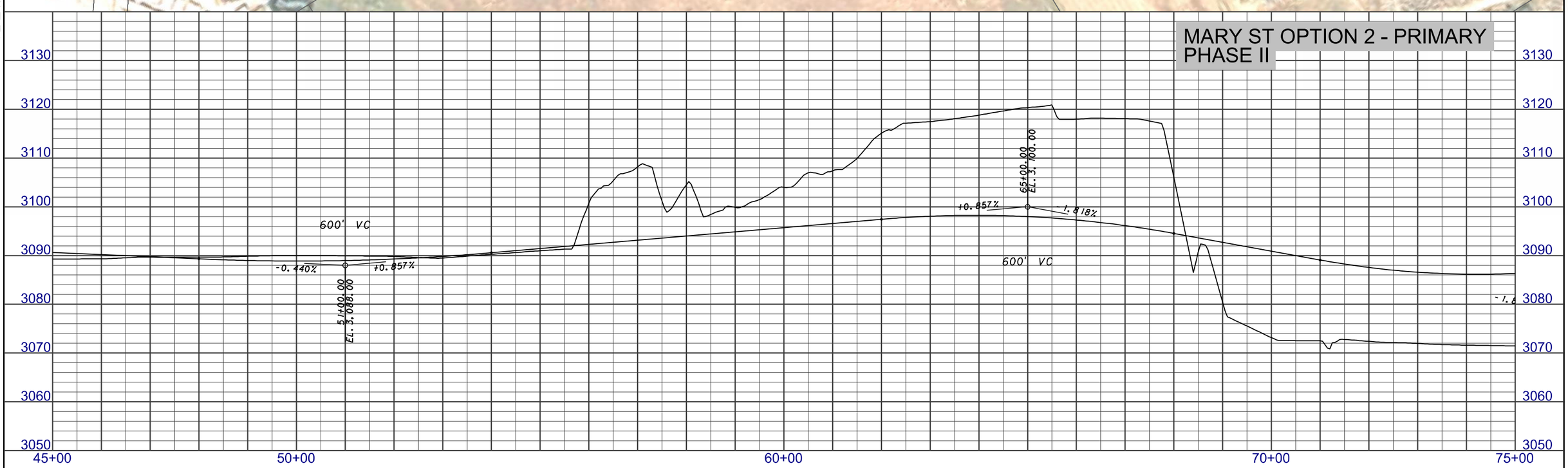




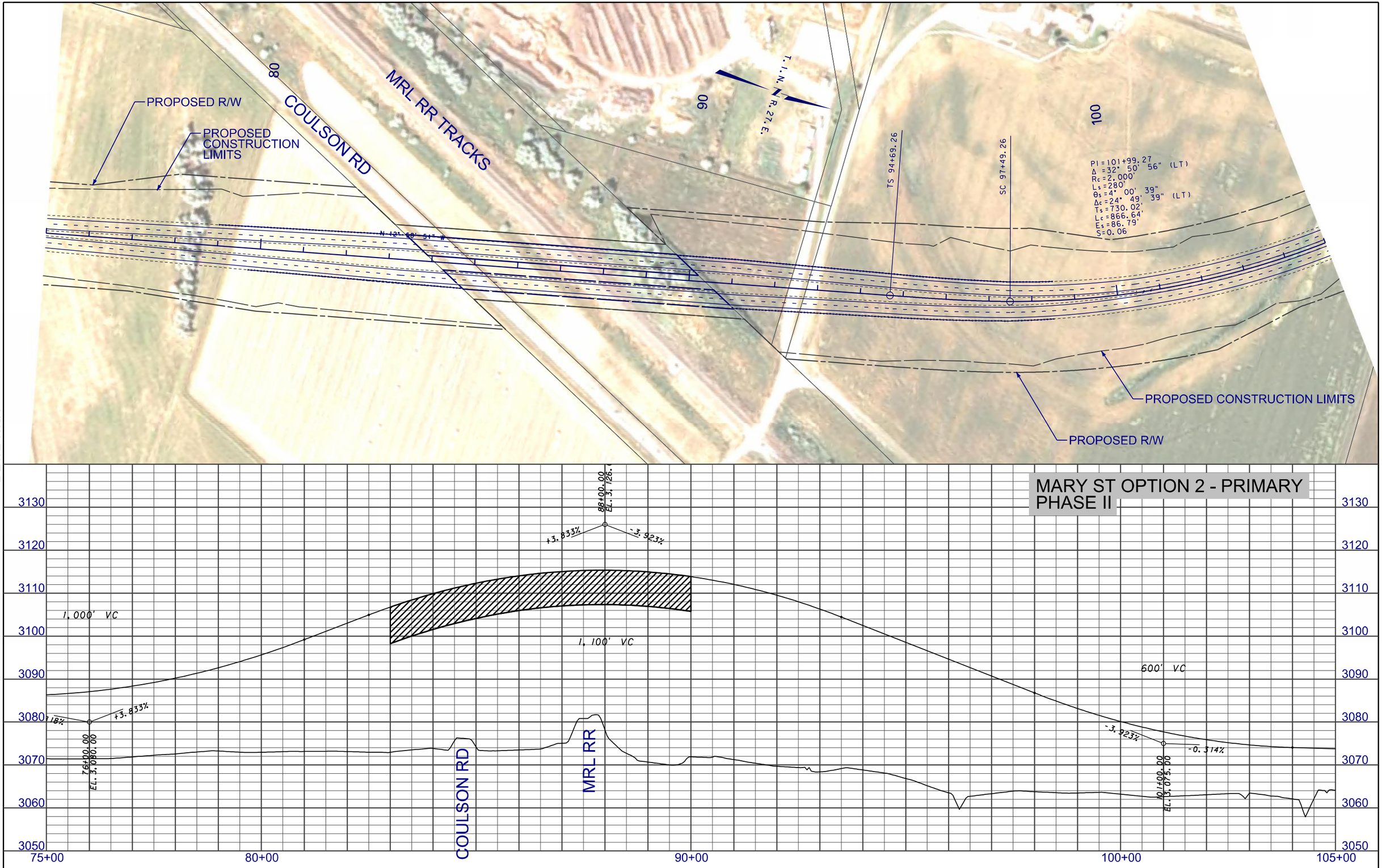
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz11_M2.dgn 8/23/2013 4:33:58 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-2



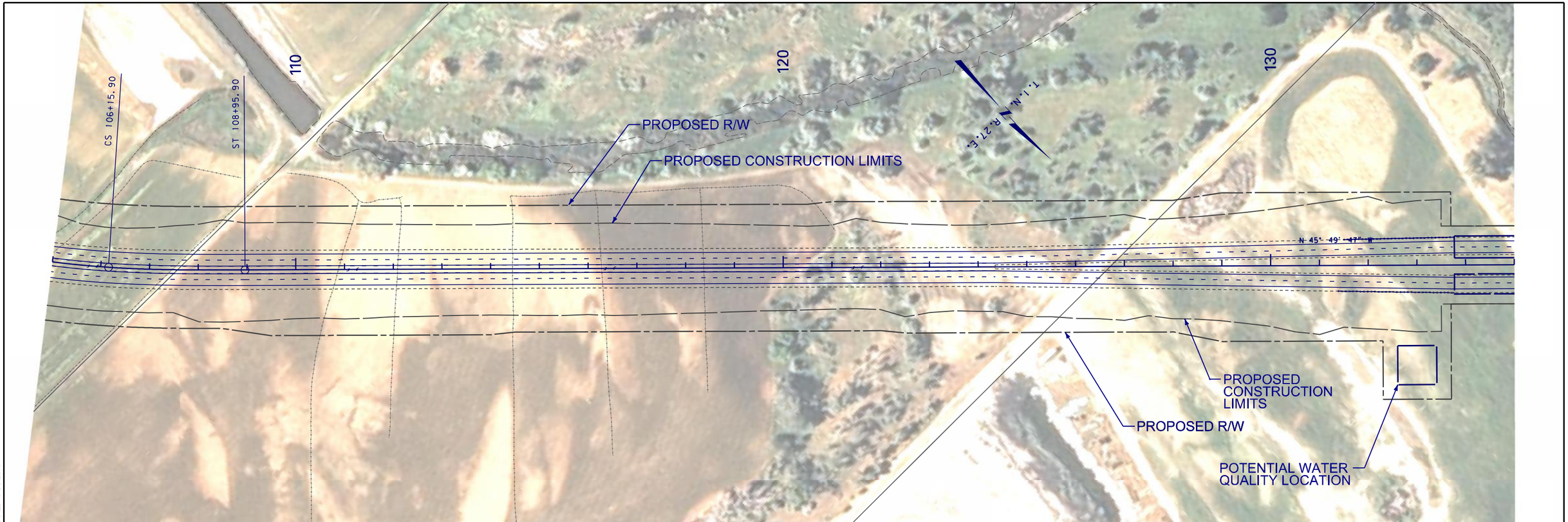
DOWL HKM



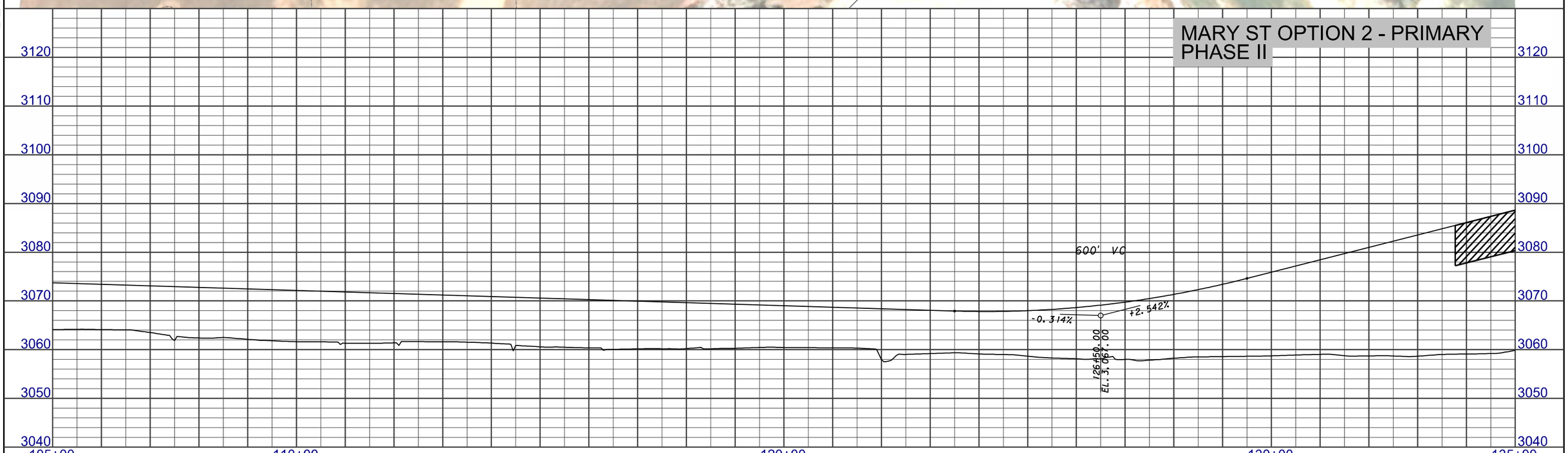
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz11_M2.dgn 8/23/2013 4:34:16 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-3



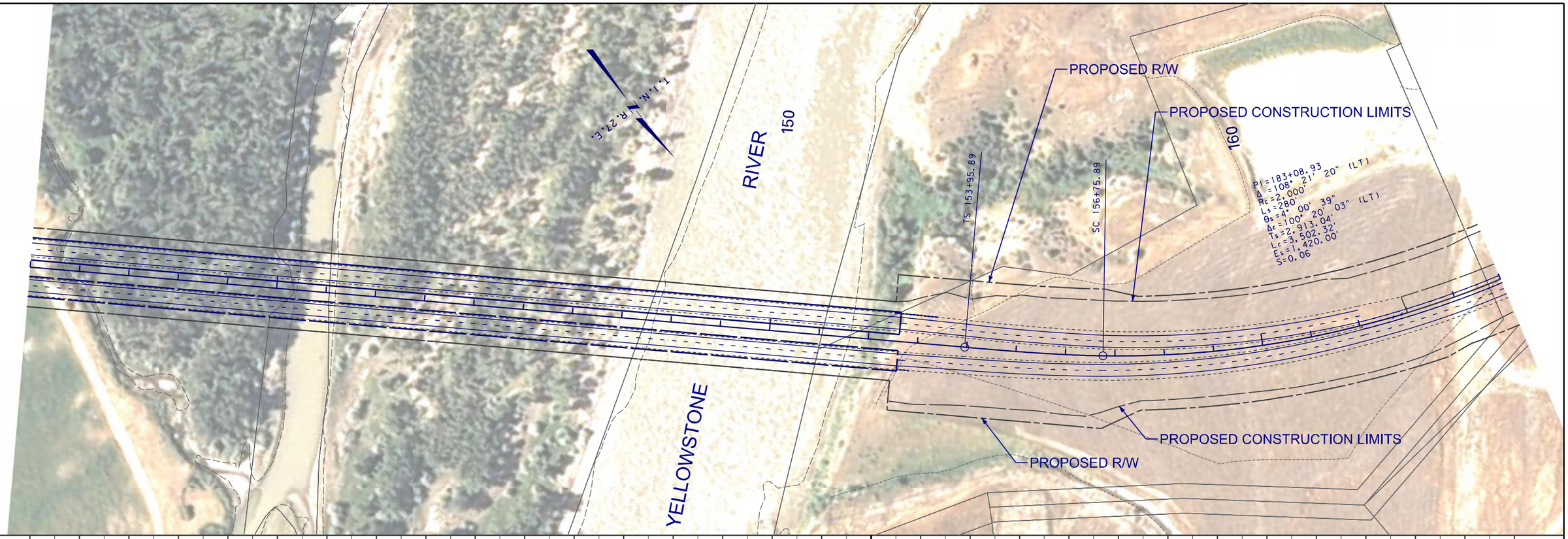
2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz11_M2.dgn	DESIGNED BY		ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
		8/23/2013	REVIEWED BY					
1		4:34:34 PM ngutierrez	CHECKED BY		YELLOWSTONE COUNTY		UPN 4199	SHEET M2-4

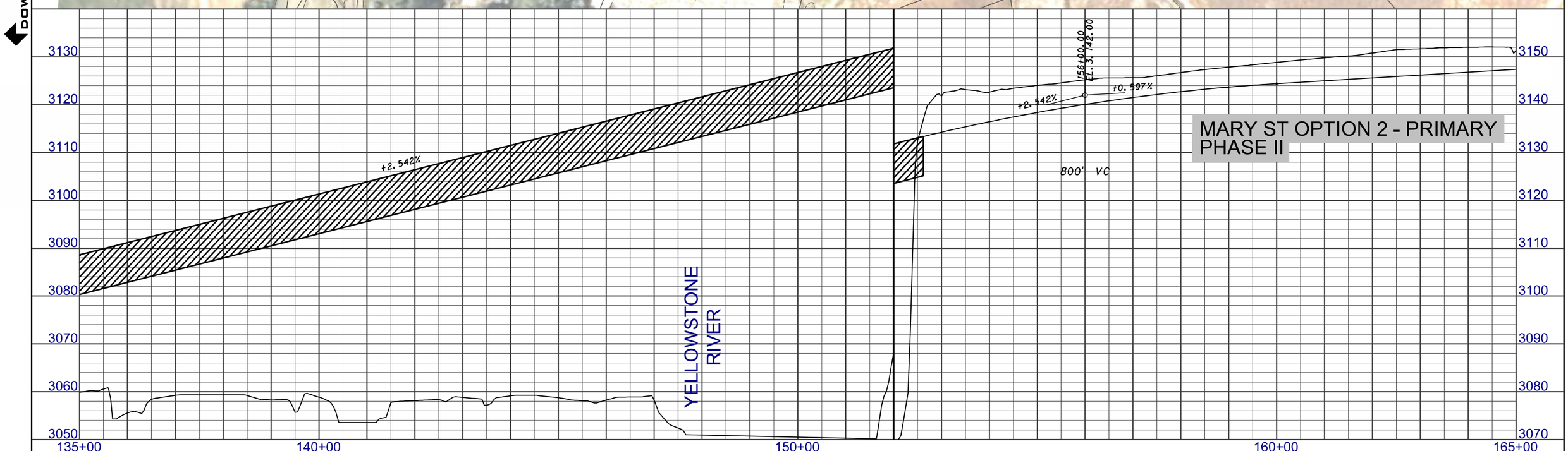


DOWL HKM

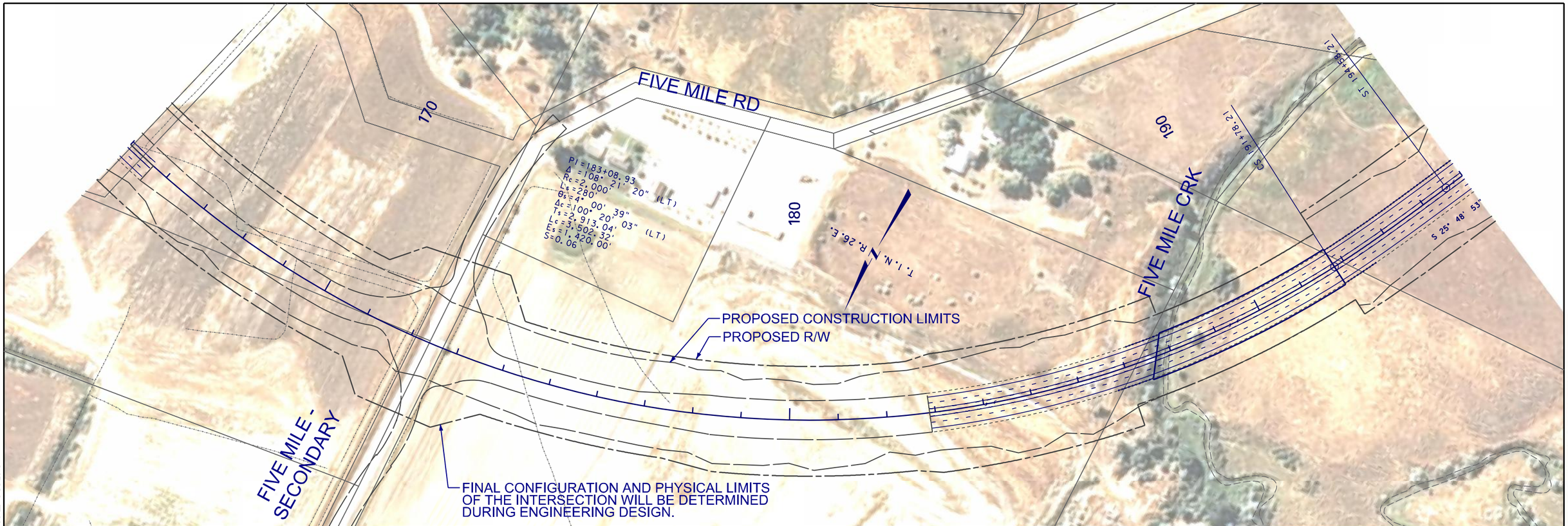


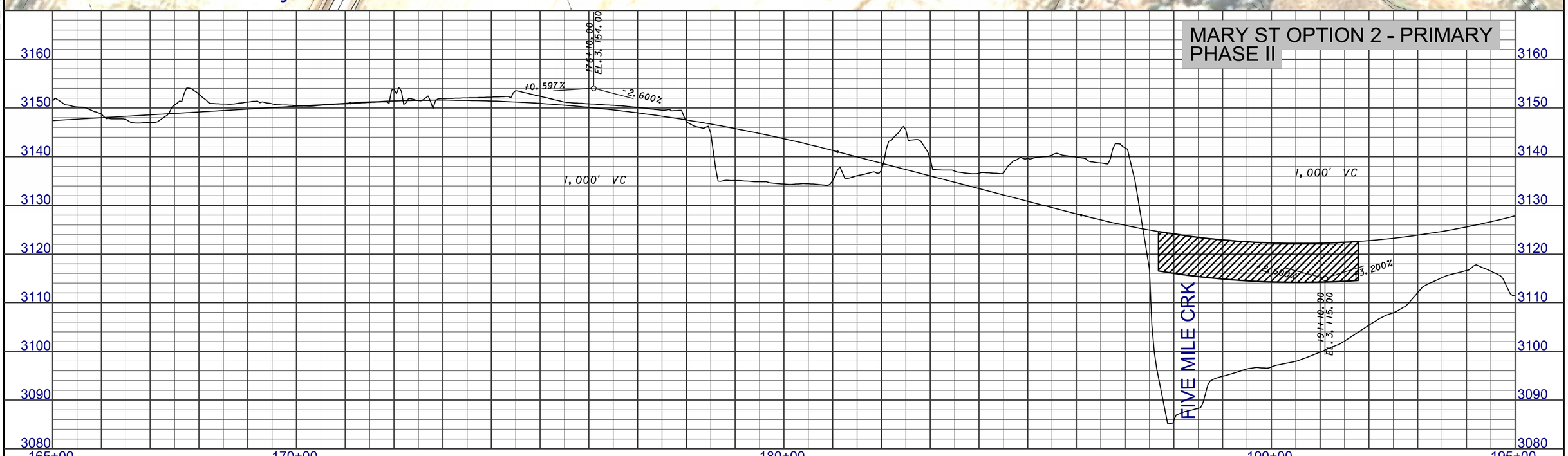
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz12_M2.dgn 8/23/2013 4:37:02 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-5



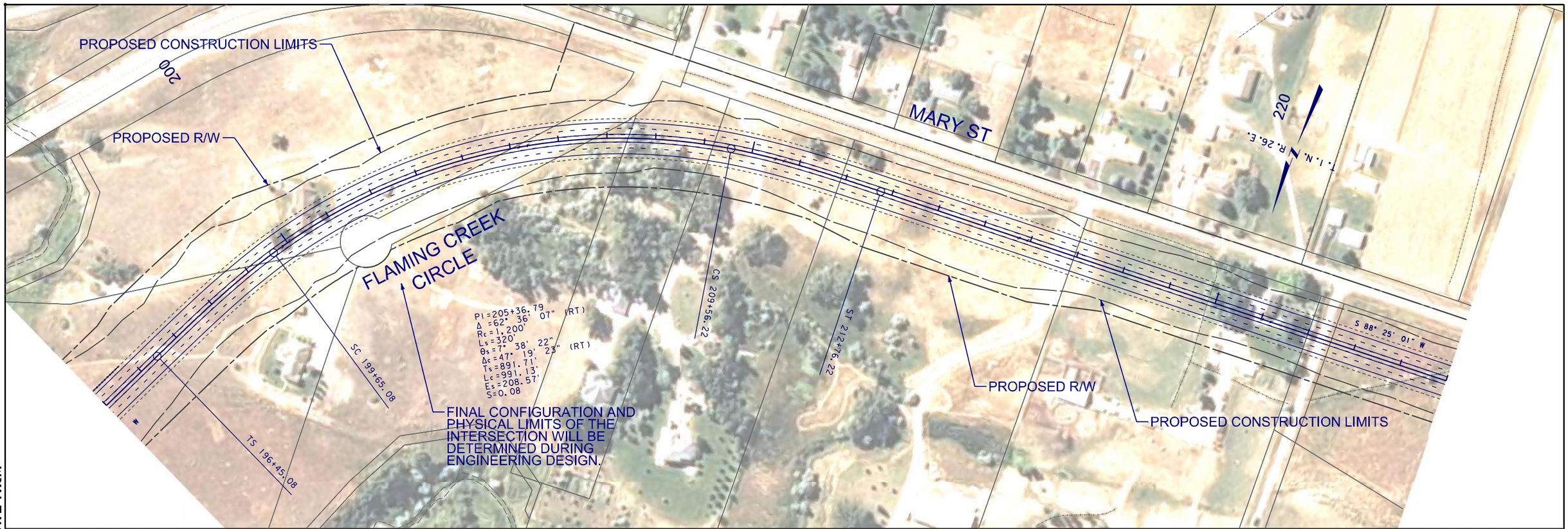


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz12_M2.dgn 8/23/2013 4:37:21 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-6



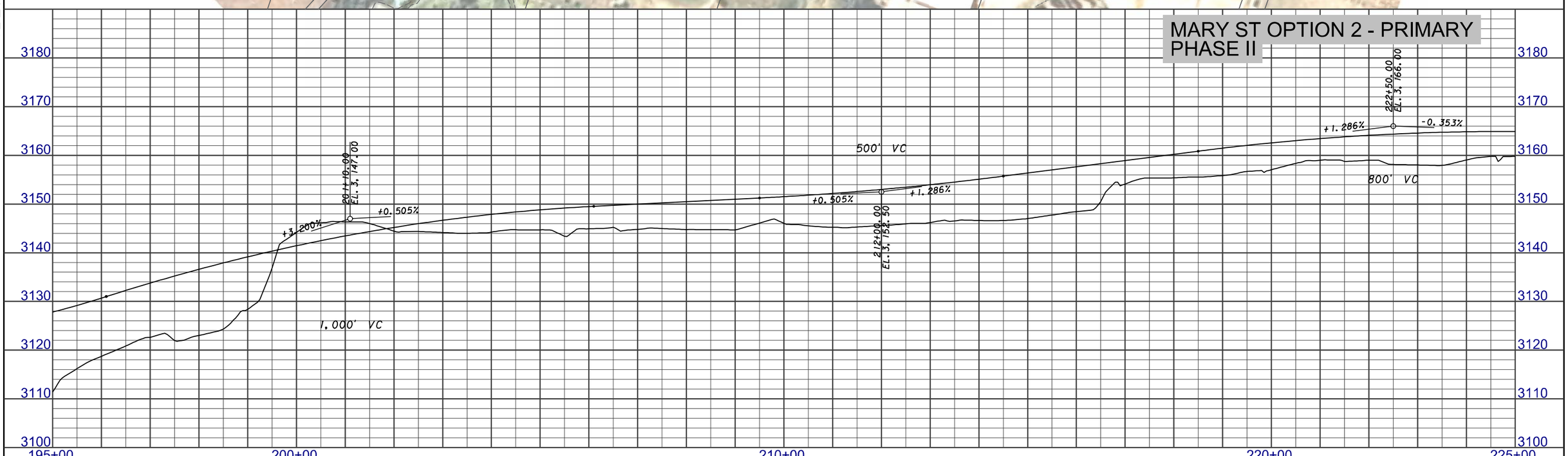


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz12_M2.dgn 8/23/2013 4:37:40 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-7

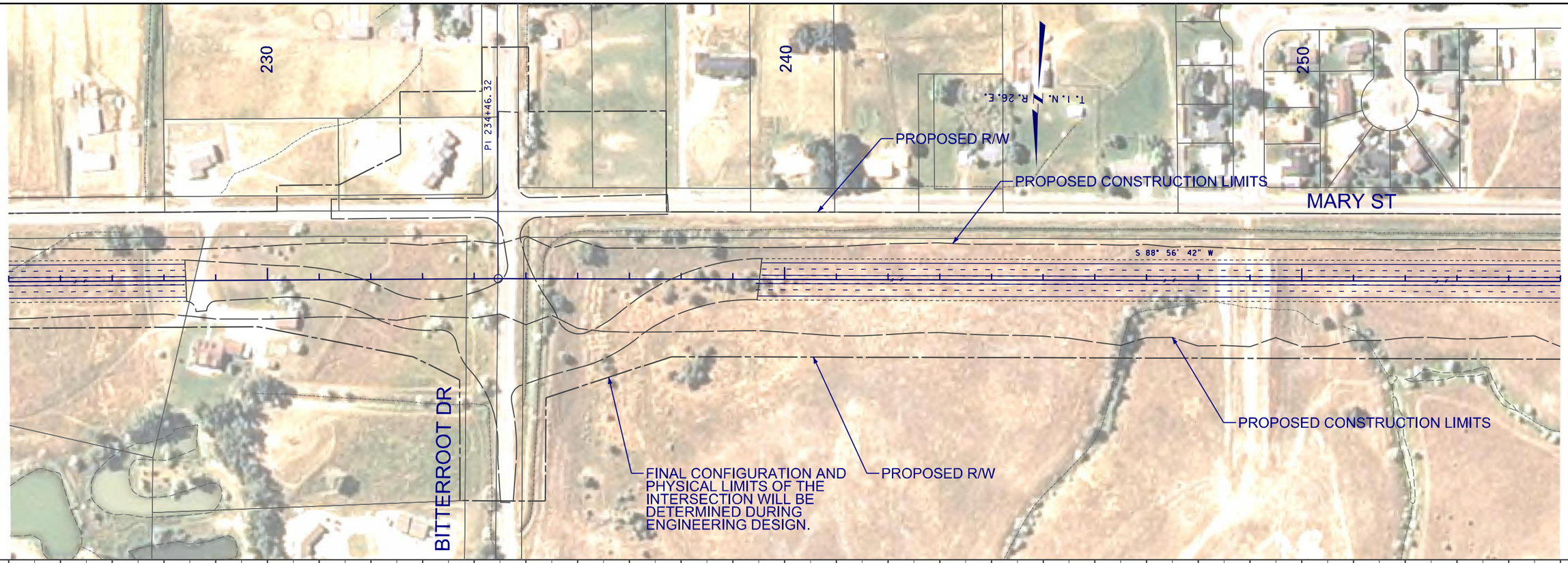


DOWL HKM

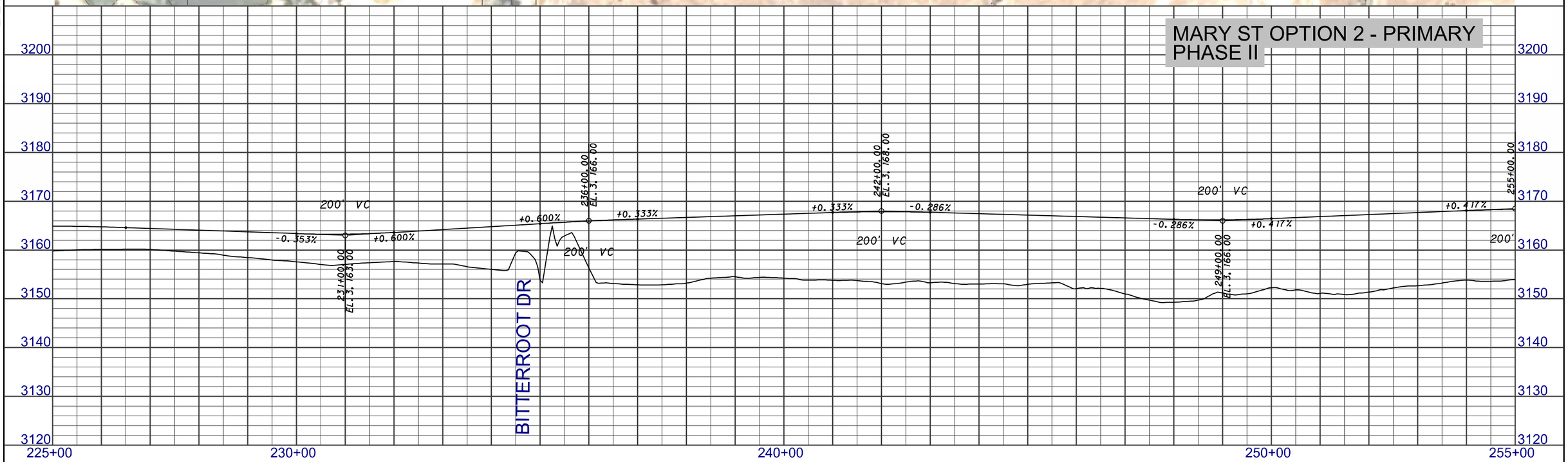
MARY ST OPTION 2 - PRIMARY PHASE II



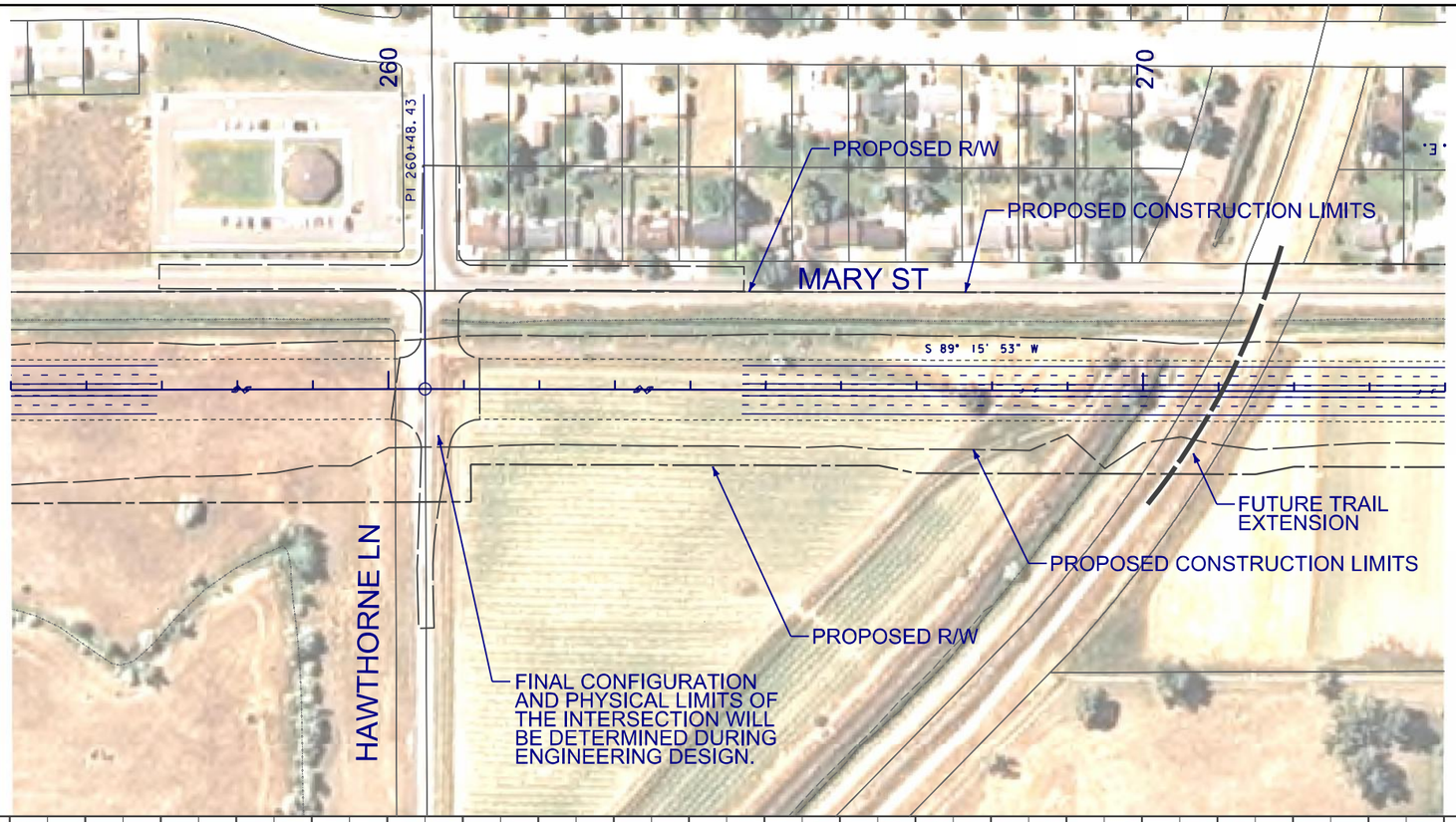
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz13_M2.dgn 8/23/2013 4:39:46 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-8

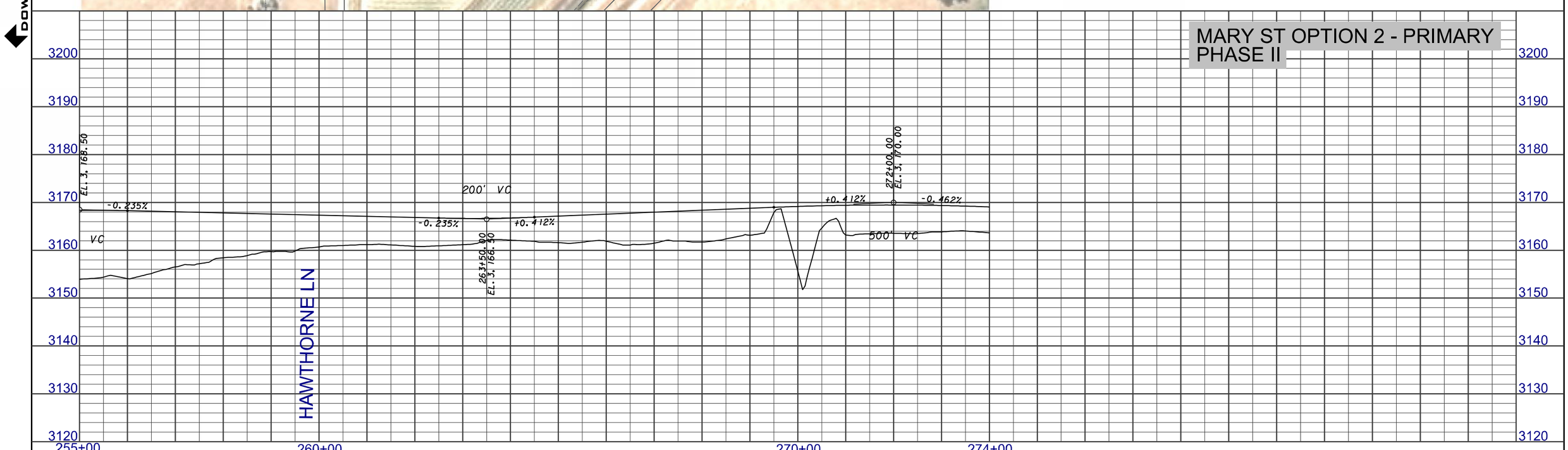


DOWL HKM

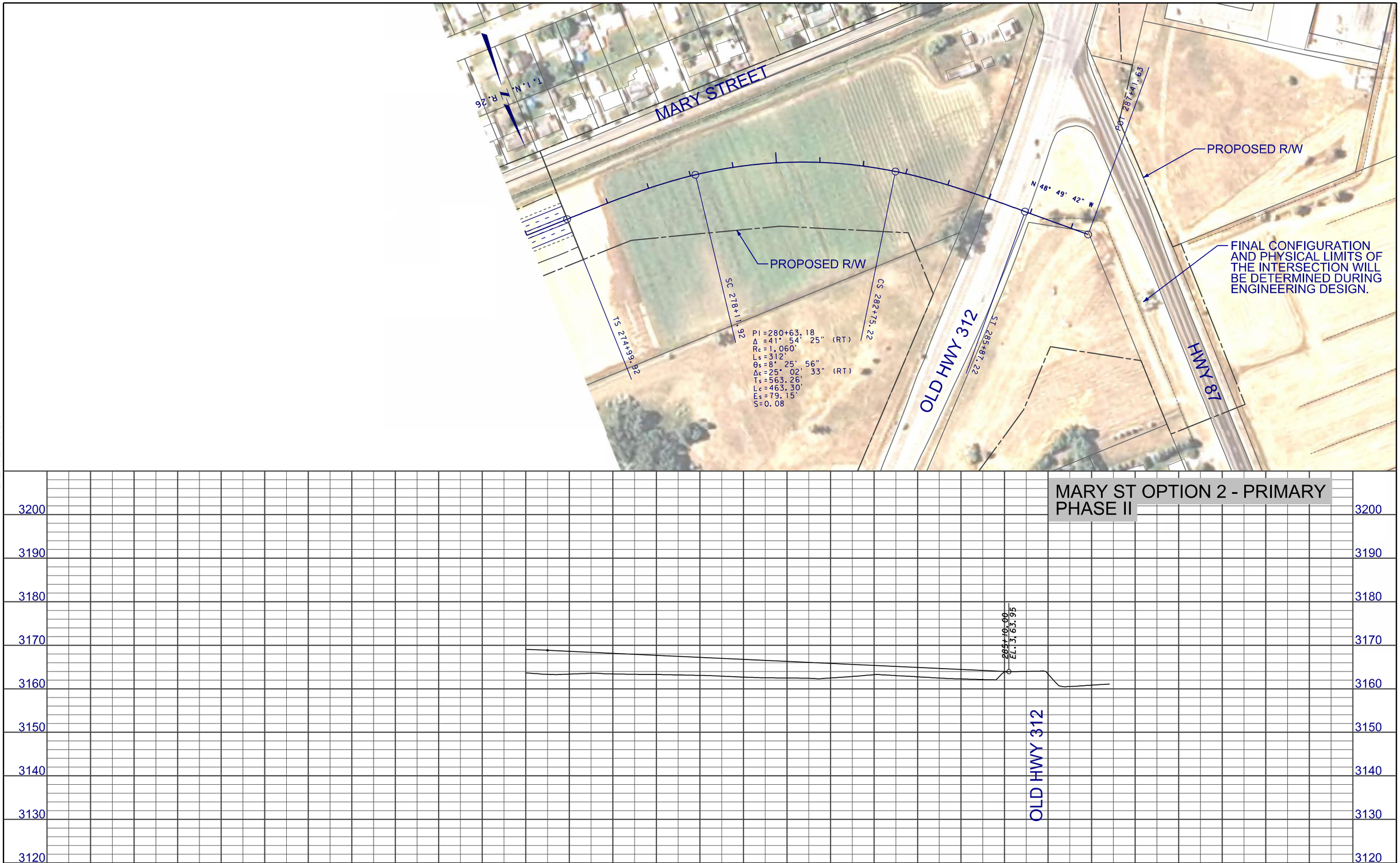


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz13_M2.dgn 8/23/2013 4:40:04 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-9

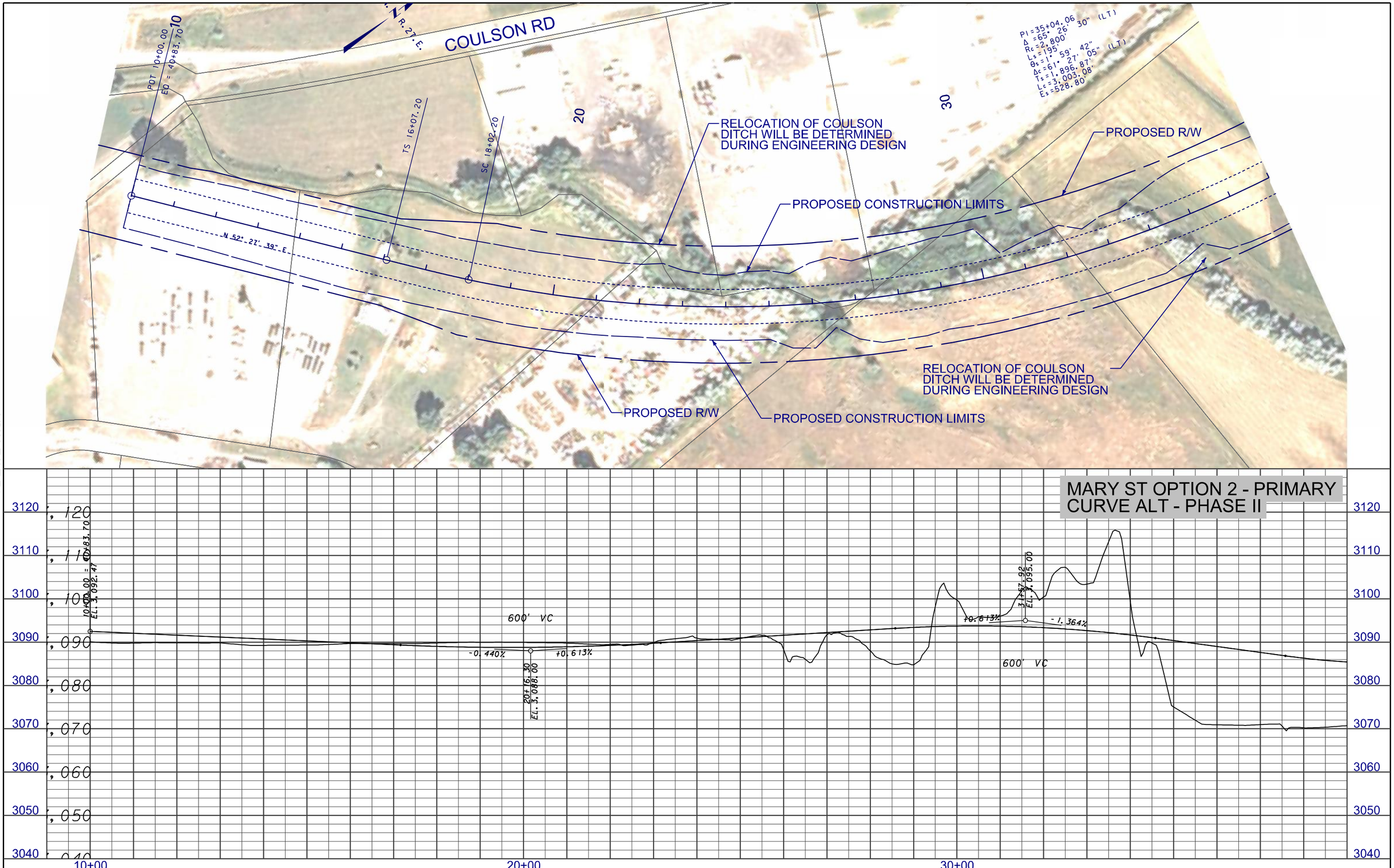




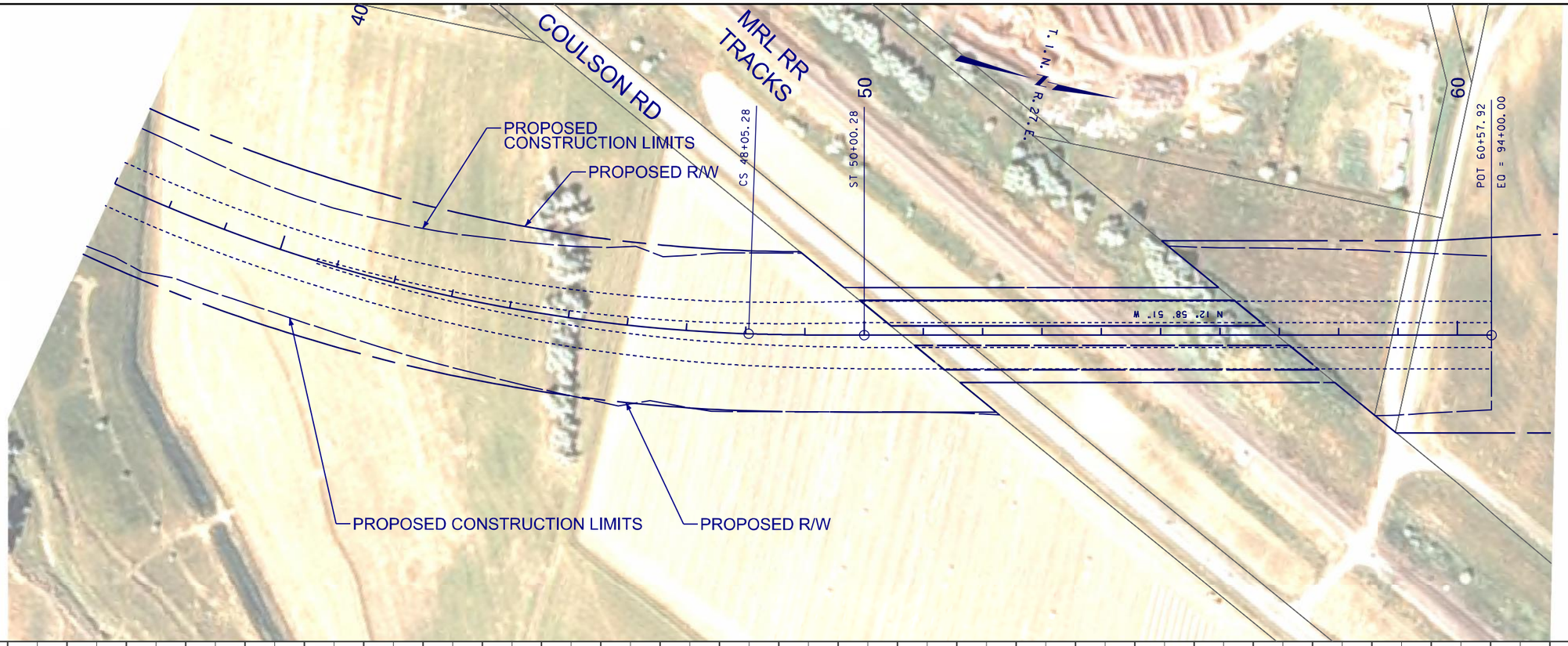
2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz13_M2.dgn 8/23/2013 4:40:22 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-10

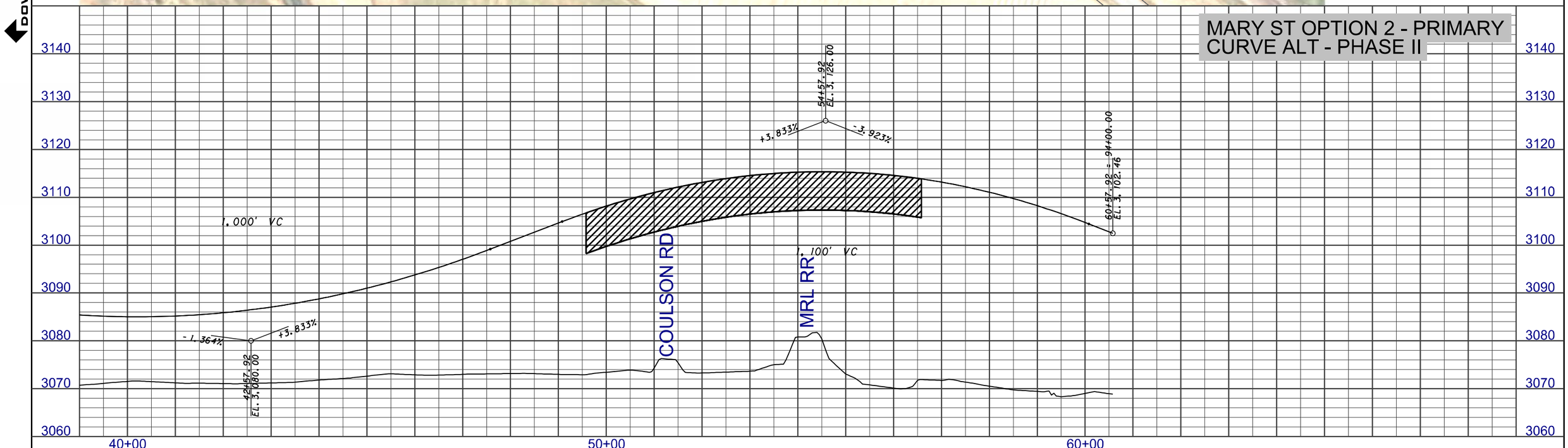


3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz14_M2.dgn 8/19/2013 12:16:32 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-11

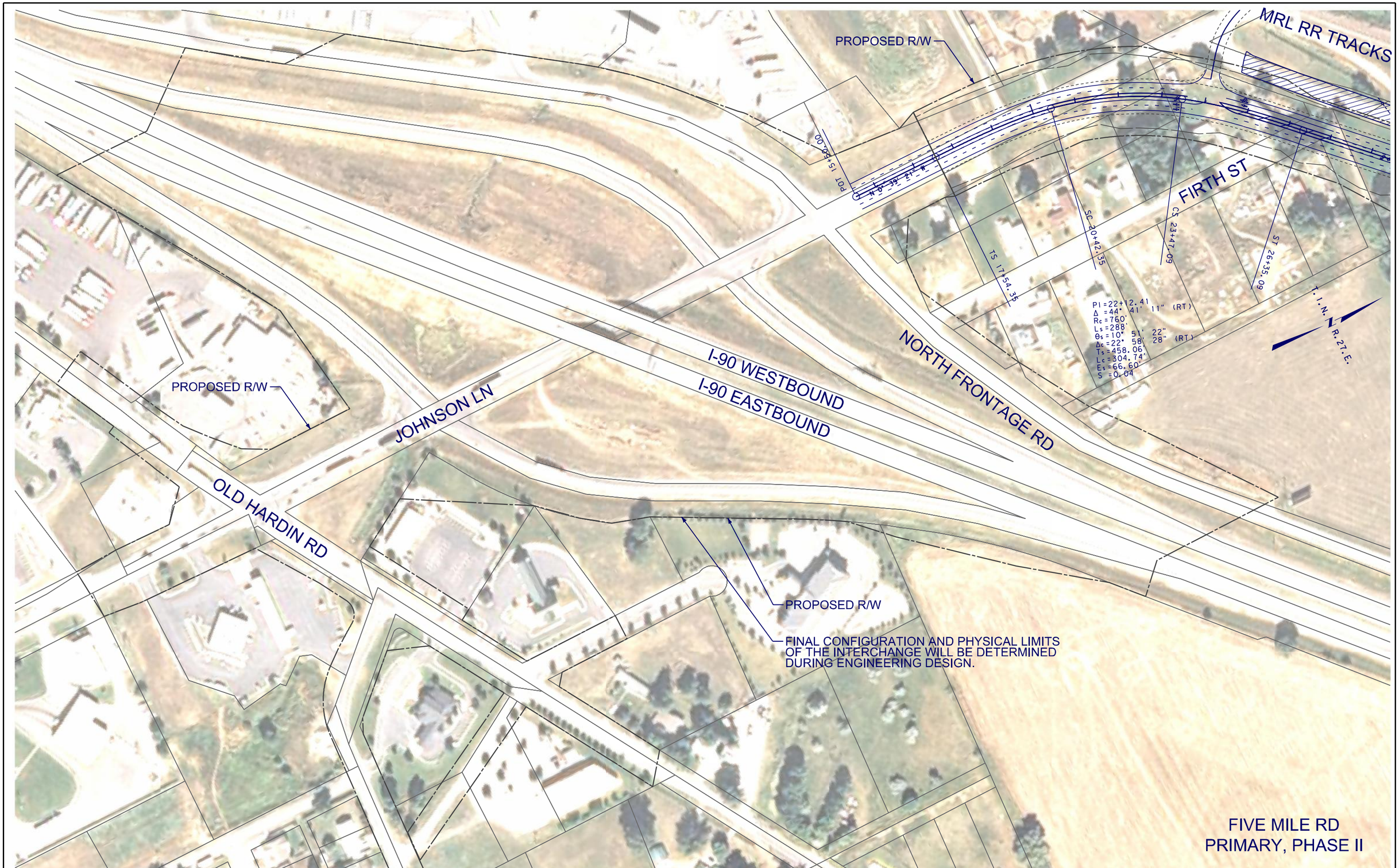


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz15_M2.dgn 8/23/2013 4:47:56 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-12

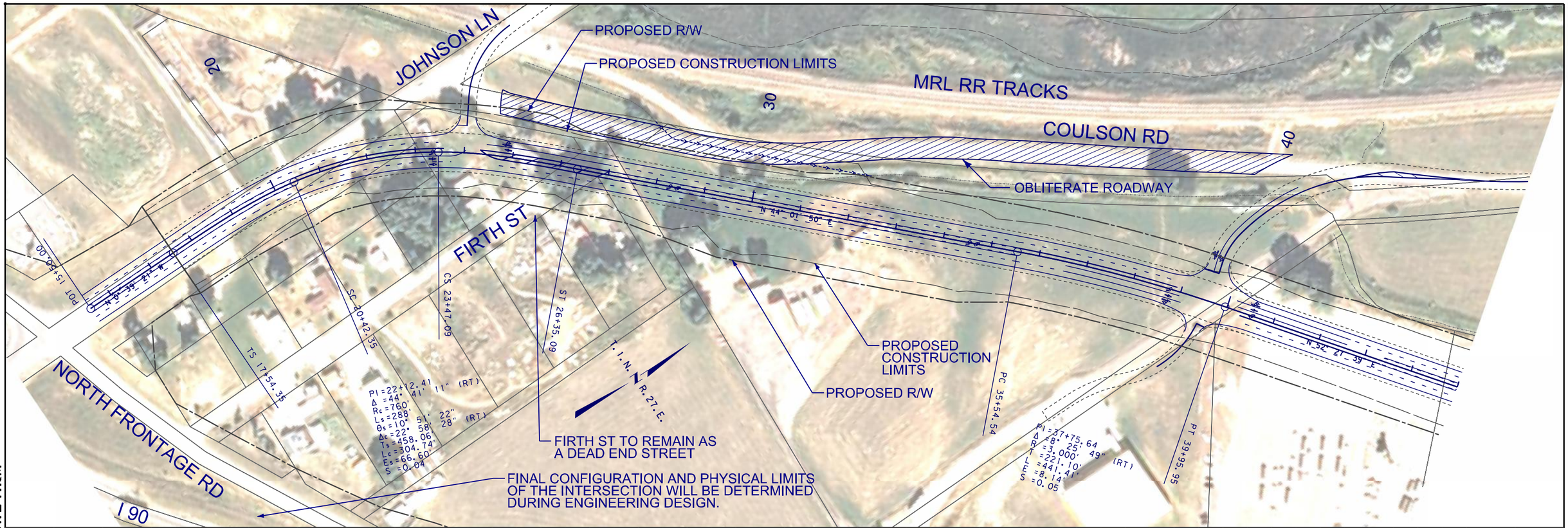




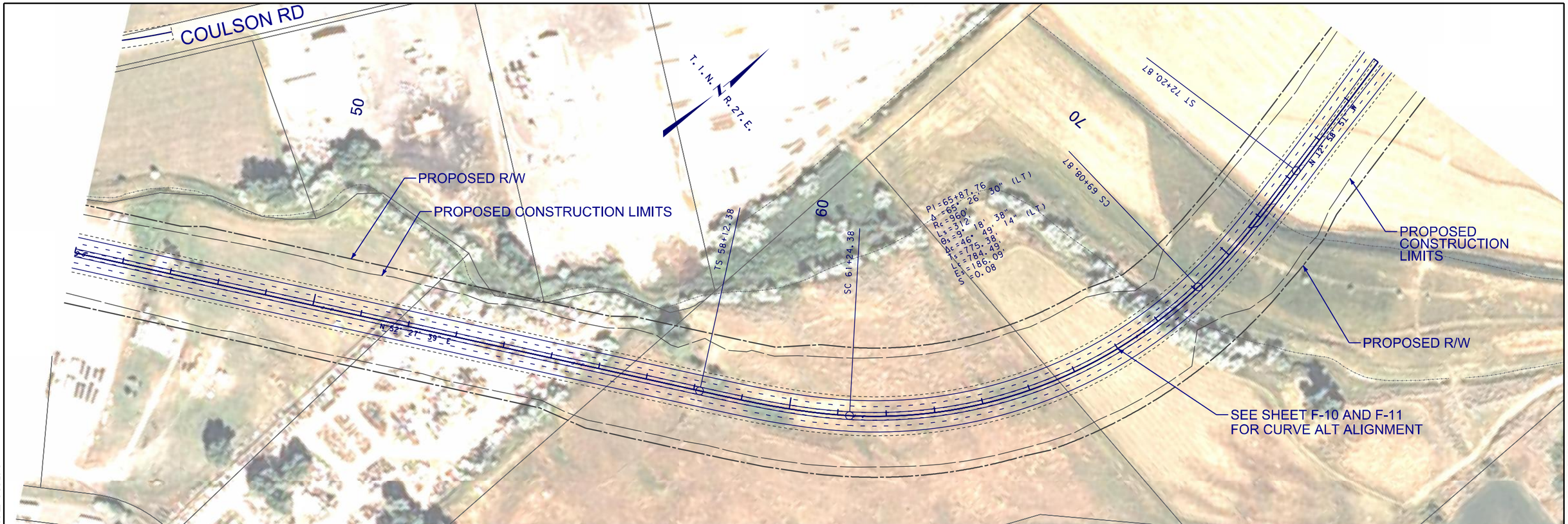
2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\M2\4199rdplpz15_M2.dgn 8/23/2013 4:48:14 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET M2-13



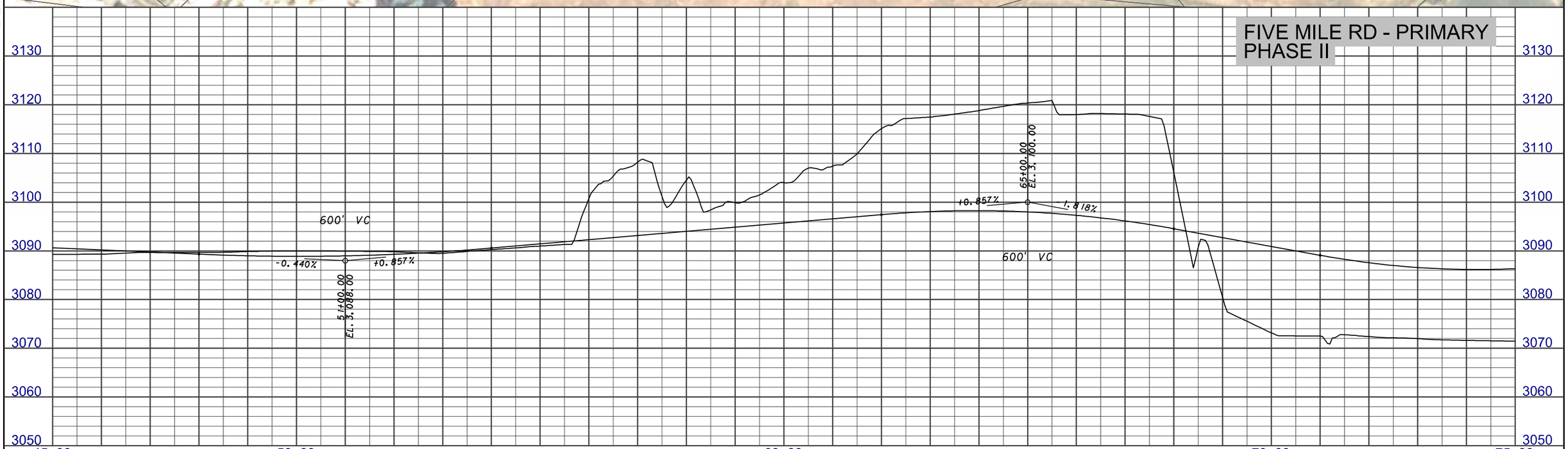
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplnZ11_F.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY				
		12:45:37 PM ngutierrez	CHECKED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET F-1



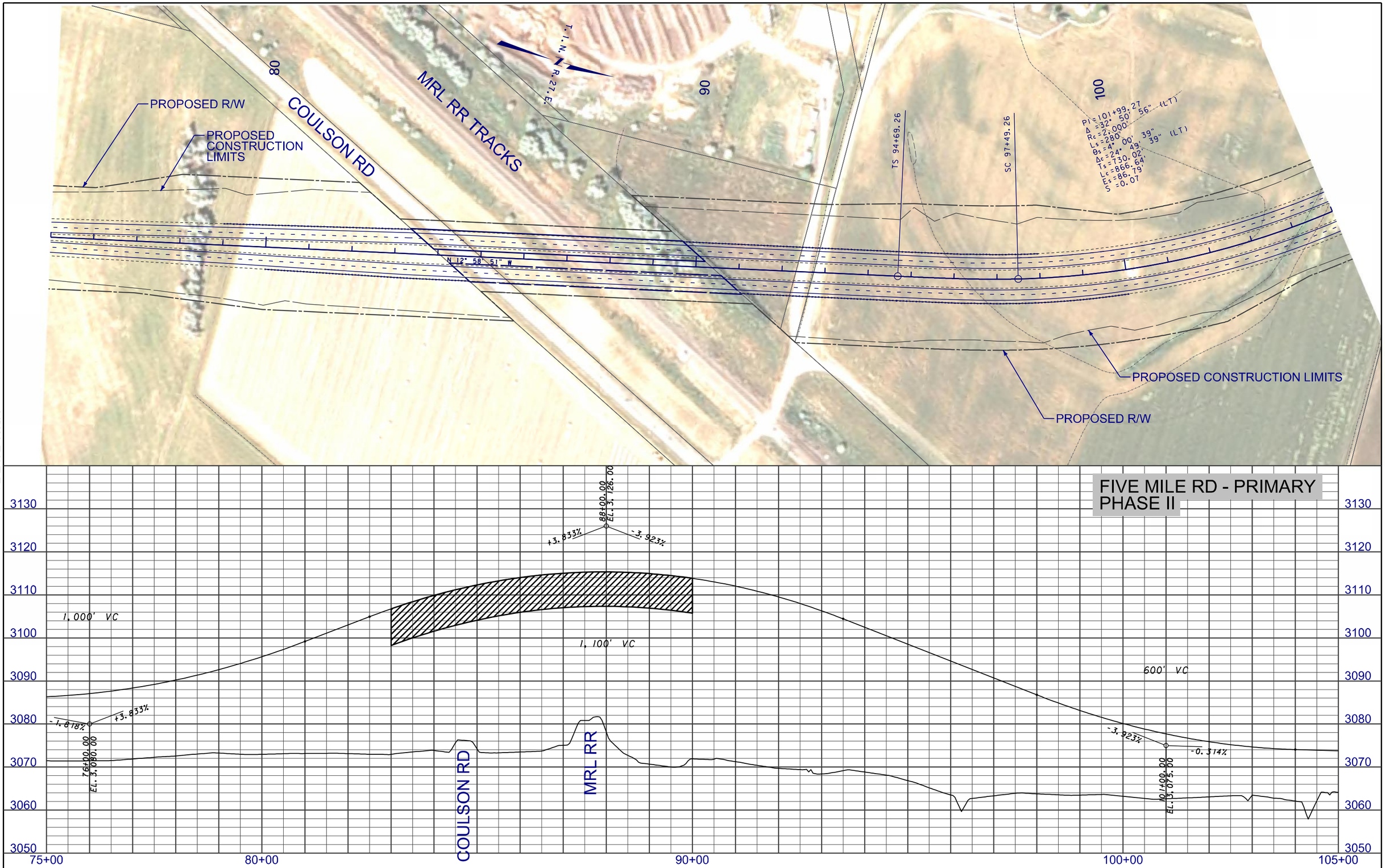
3 / 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz11_F.dgn 8/23/2013 5:05:56 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-2



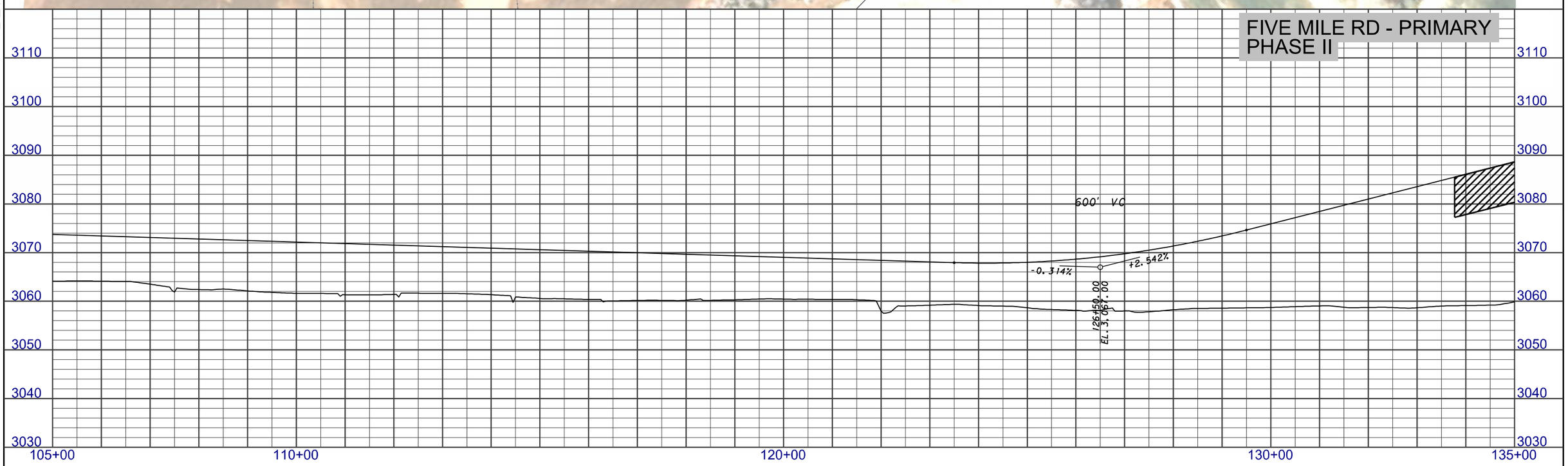
DOWL HKM



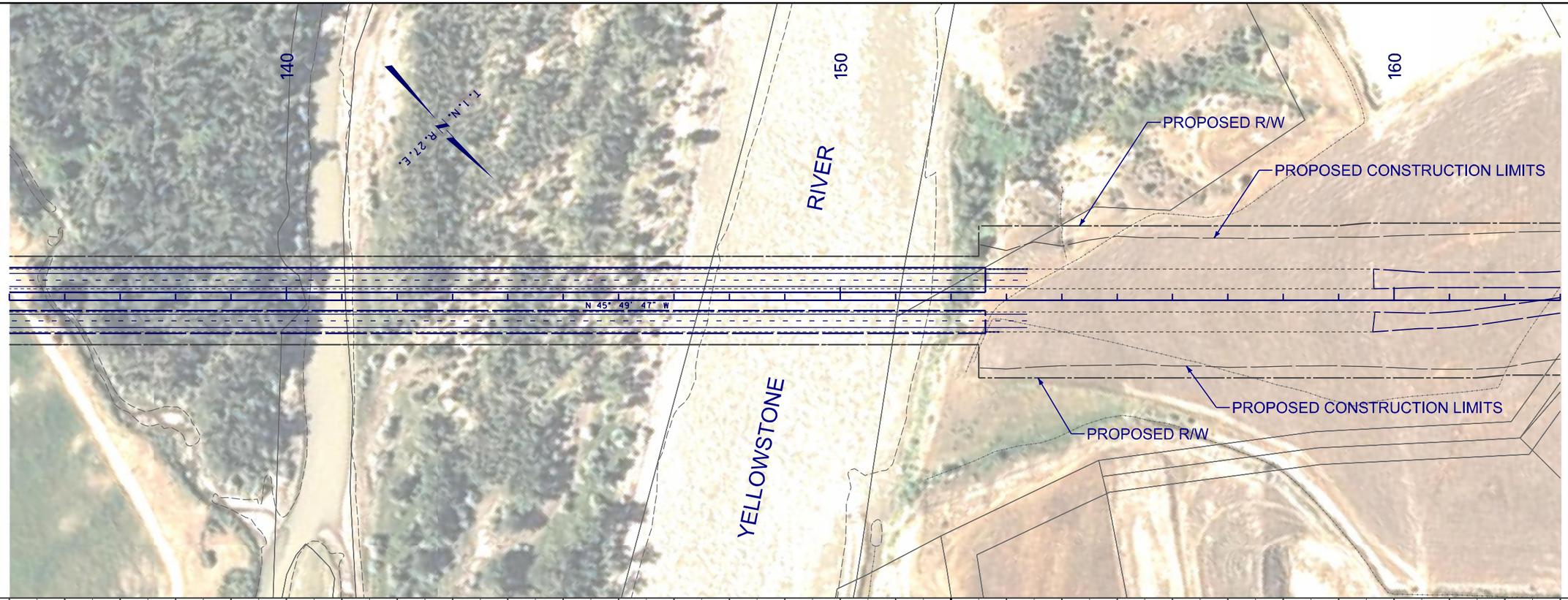
3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz11_F.dgn 8/23/2013 5:06:15 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-3

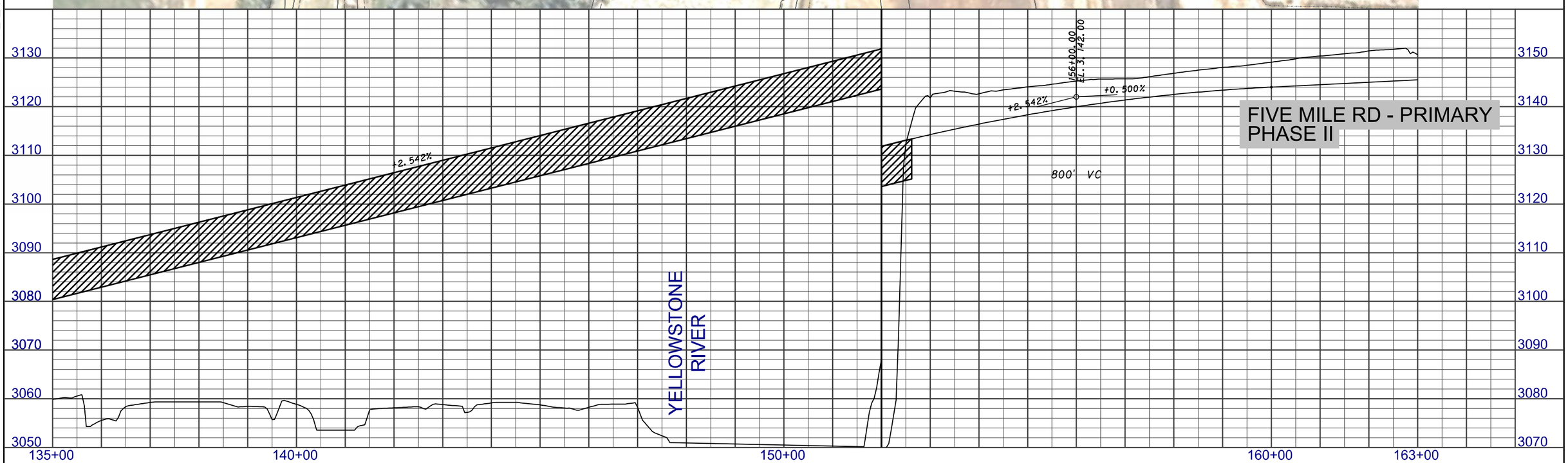


2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz11_F.dgn 8/23/2013 5:06:34 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-4

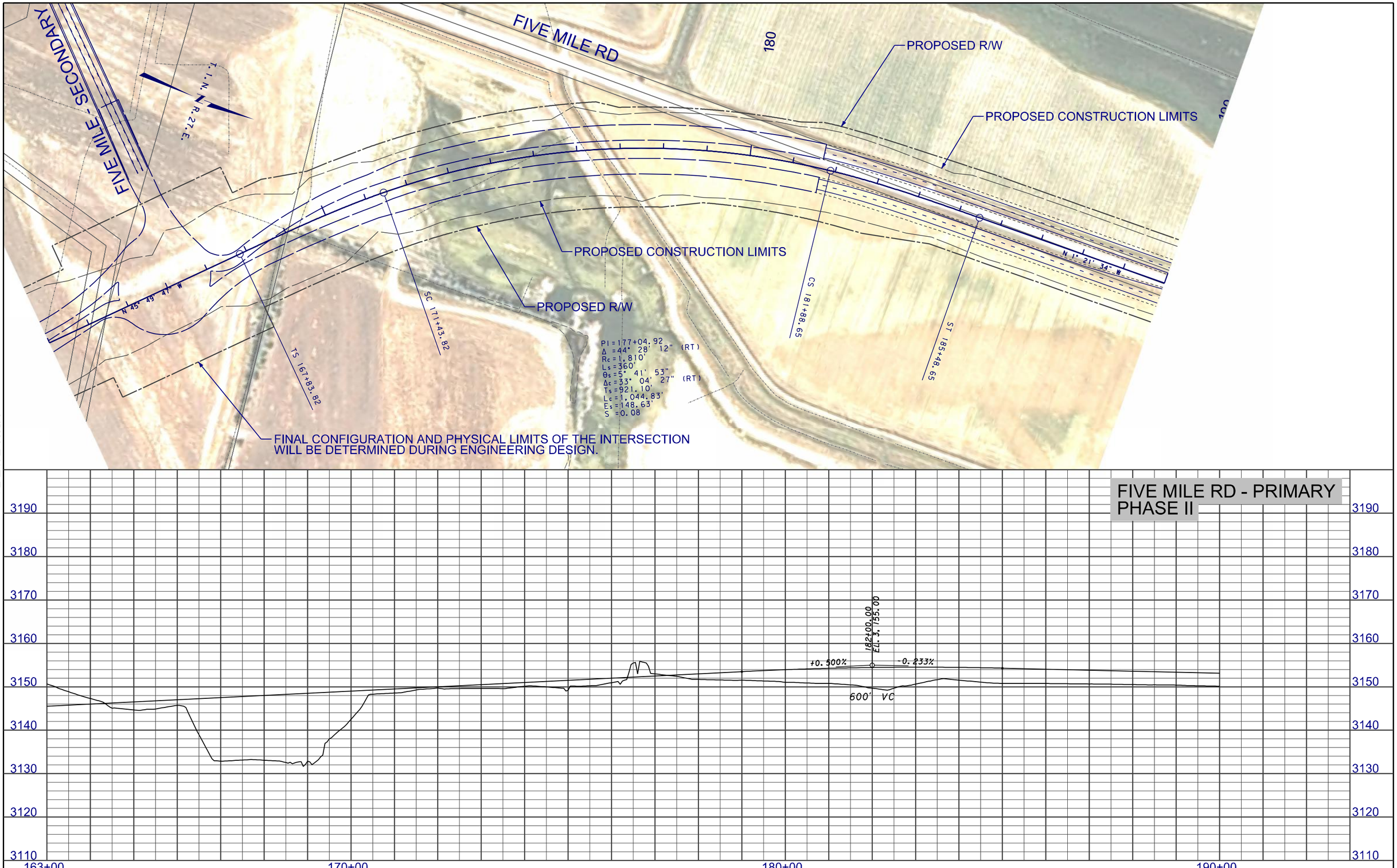


3 2	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz12_F.dgn 8/19/2013 12:55:25 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-5

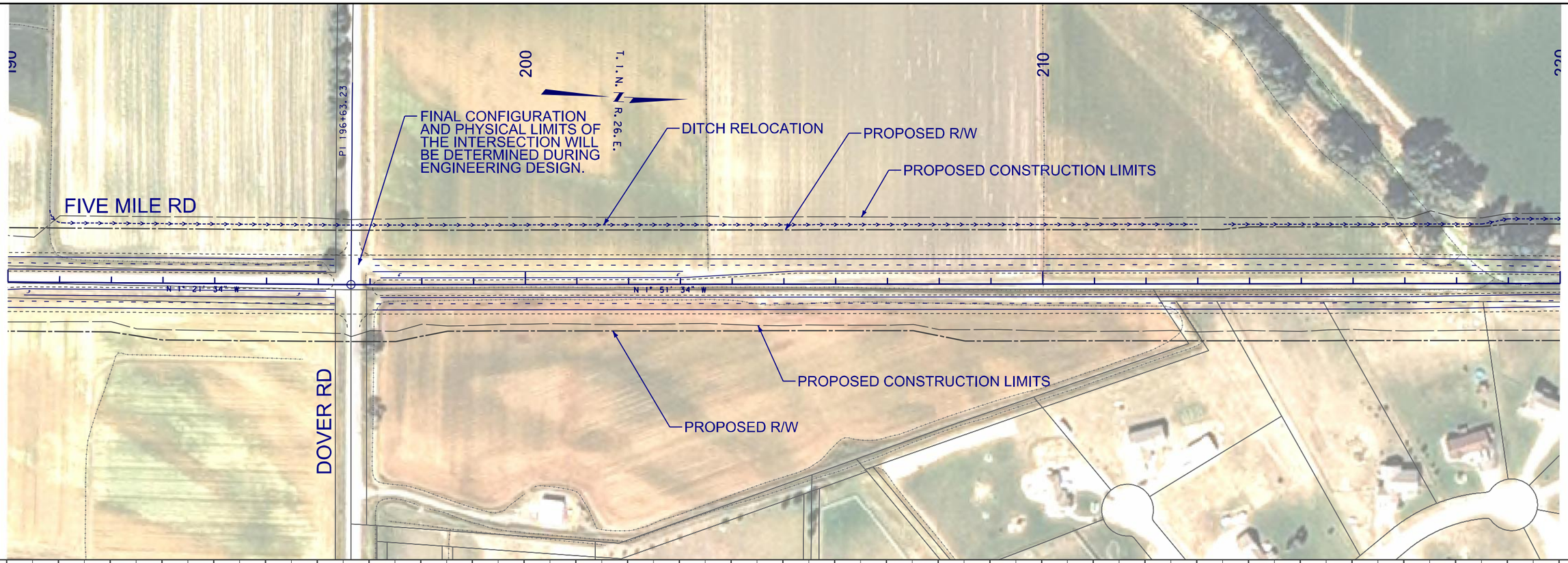


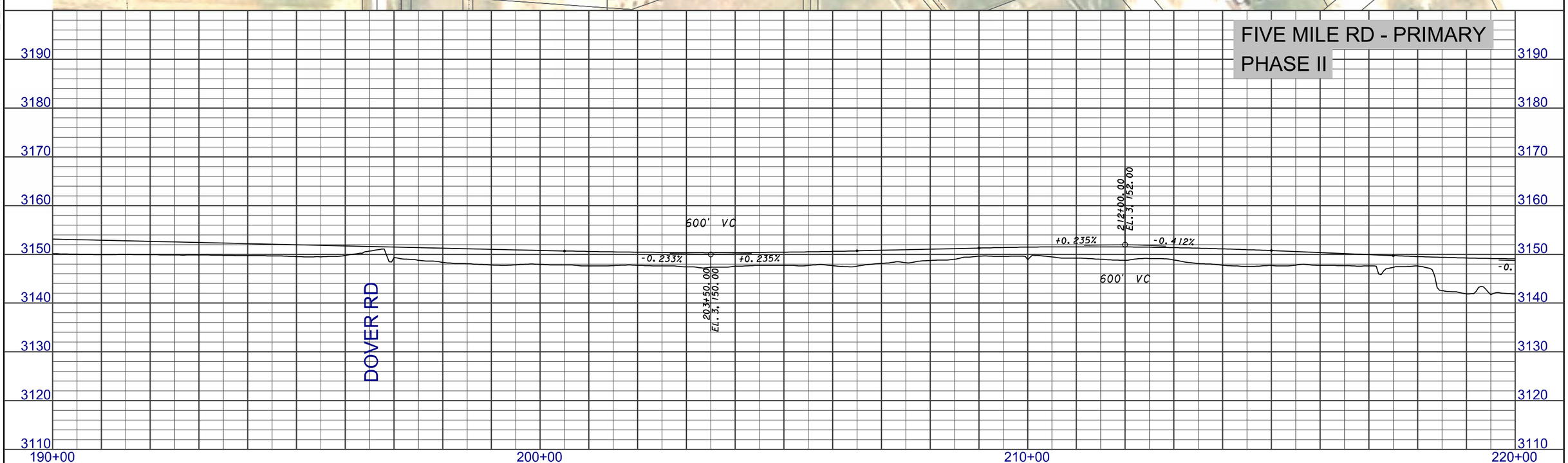


3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz12_F.dgn 8/19/2013 12:55:43 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-6

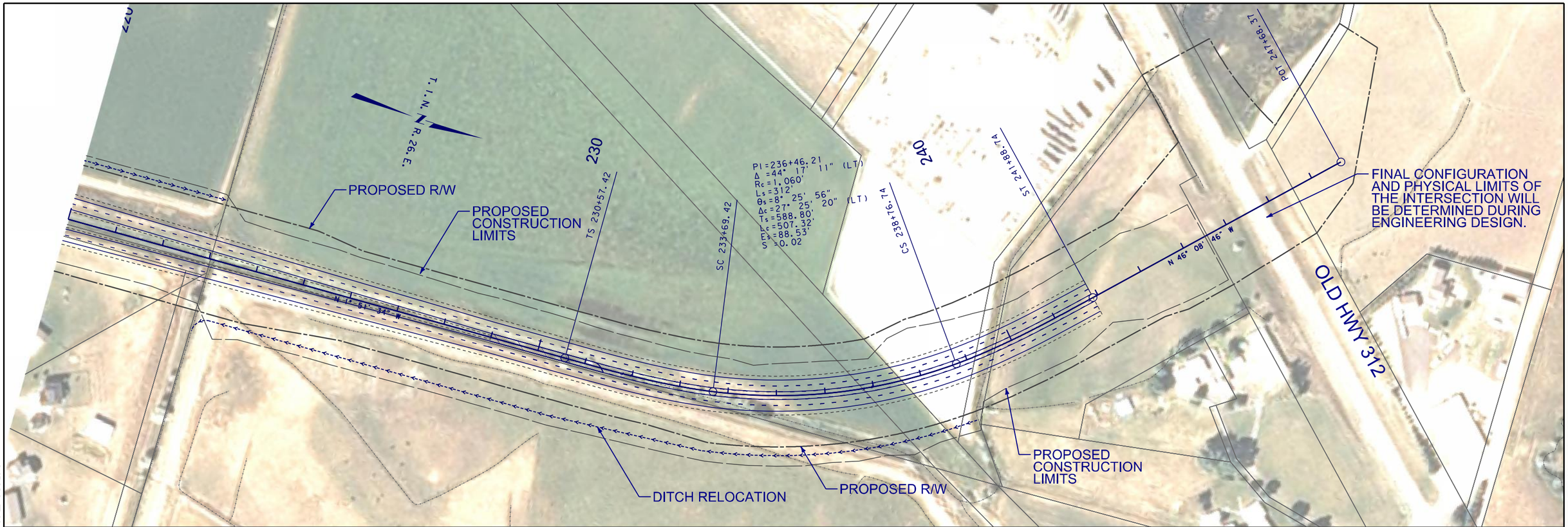


2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz12_F.dgn 8/19/2013 12:56:01 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-7

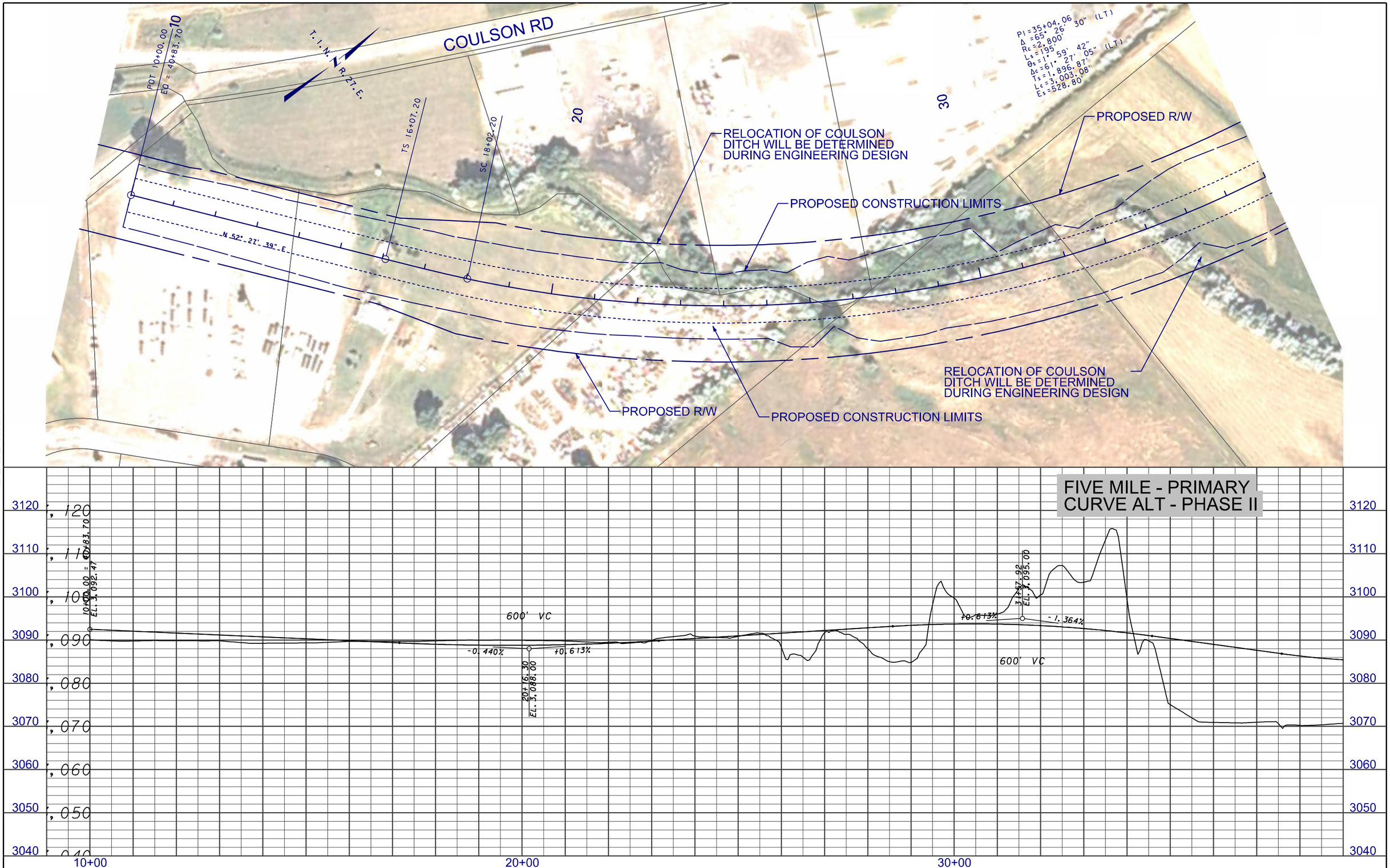




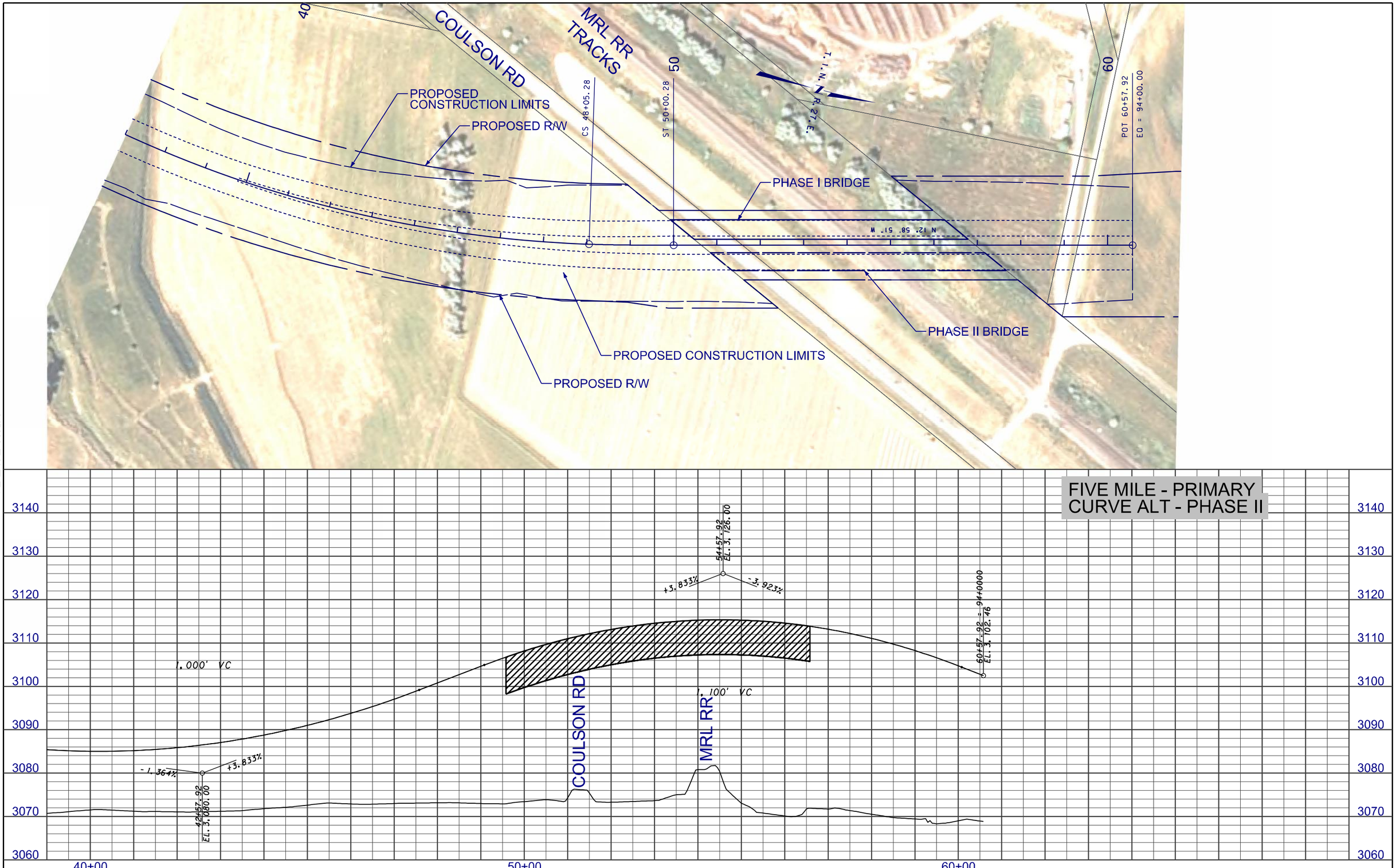
3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz13_F.dgn	DESIGNED BY	ROAD PLANS	PRELIMINARY	BILLINGS BYPASS EIS	NCPD 56(55)
2		8/19/2013	REVIEWED BY	YELLOWSTONE COUNTY		UPN 4199	SHEET F-8
		12:57:51 PM ngutierrez	CHECKED BY				



3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz13_F.dgn 8/19/2013 12:58:10 PM ngutierrez	DESIGNED BY / REVIEWED BY / CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-9



3 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz14_F.dgn 8/23/2013 5:12:06 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-10



2 / 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	...\4199\RD\F\4199rdplpz14_F.dgn 8/23/2013 5:12:24 PM ngutierrez	DESIGNED BY REVIEWED BY CHECKED BY	ROAD PLANS YELLOWSTONE COUNTY	PRELIMINARY	BILLINGS - BYPASS EIS UPN 4199	NCPD 56(55) SHEET F-11