

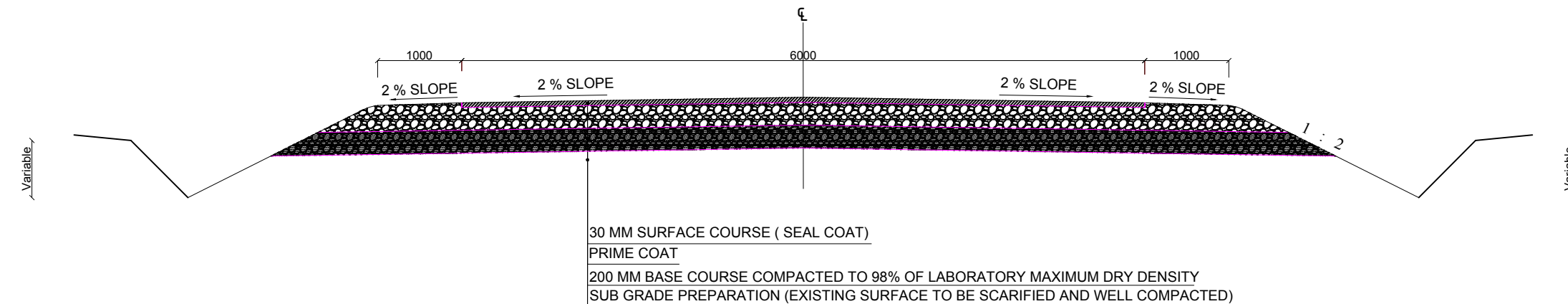


RURAL ACCESS IMPROVEMENT PROJECT (RAIP IV)
IN 4 NORTHERN PROVINCES, AFGHANISTAN

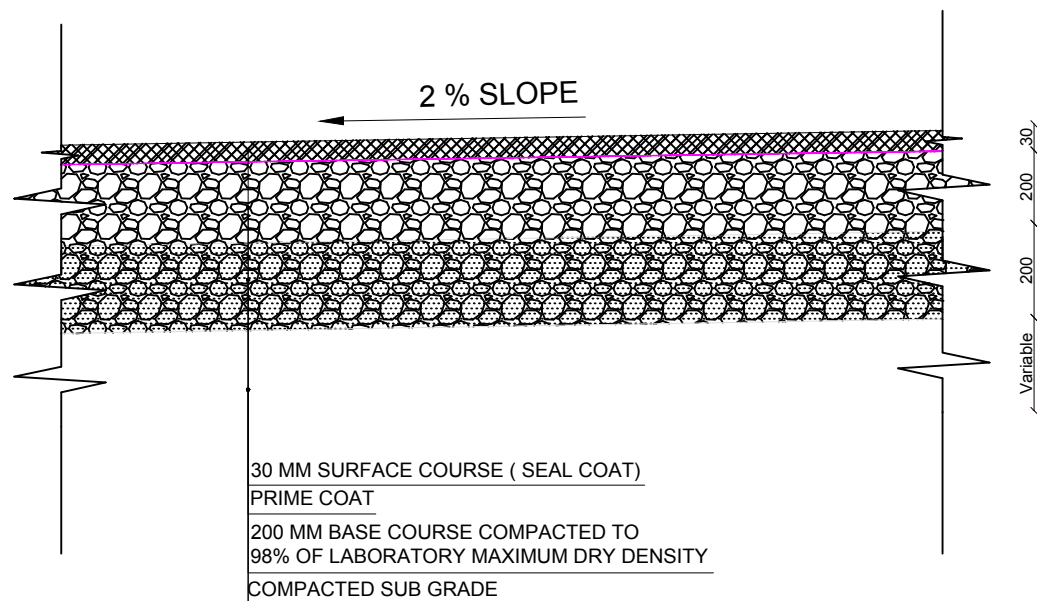
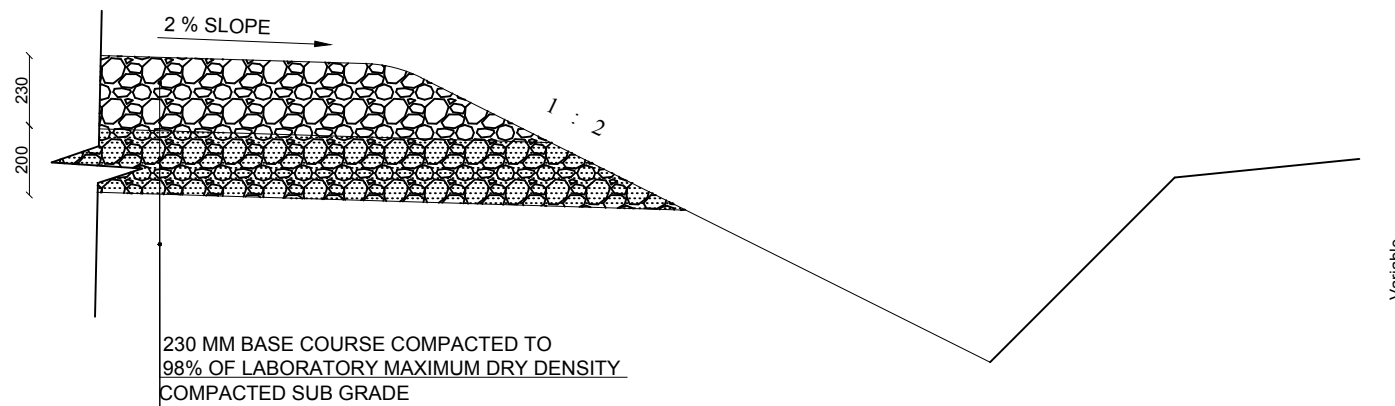
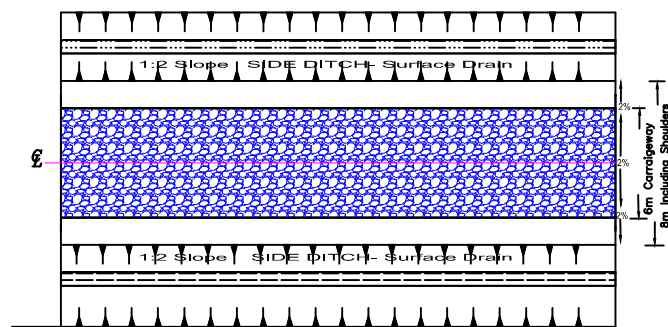
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha
District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

ITB NO.: SIDA/RAIP IV/NTH/JWN/004/C2/005

May-2017




SEGMENT PLAN OF TYPICAL SEAL COAT STANDARD ROAD



NOTES
1. All dimensions are in "mm" unless otherwise specified
2. In general, the side slope shown on the typical drawing shall be applied only for small cut and fill areas. the side slopes should be determined based on the result of detailed soil survey and approval of UNOPS authority

Revision

Date	Description	



UNOPS
AFGHANISTAN

Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

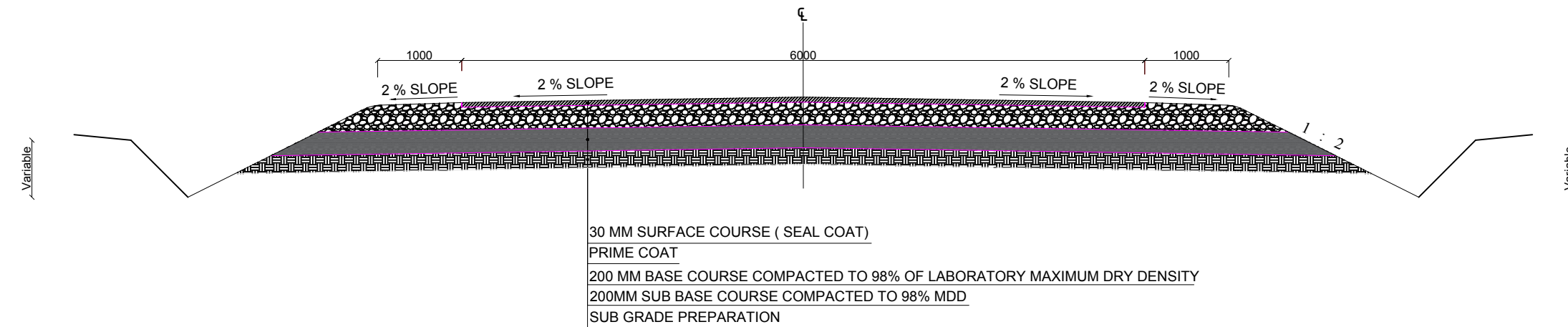
RAIP-IV
Mazar—e—Sharif

Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

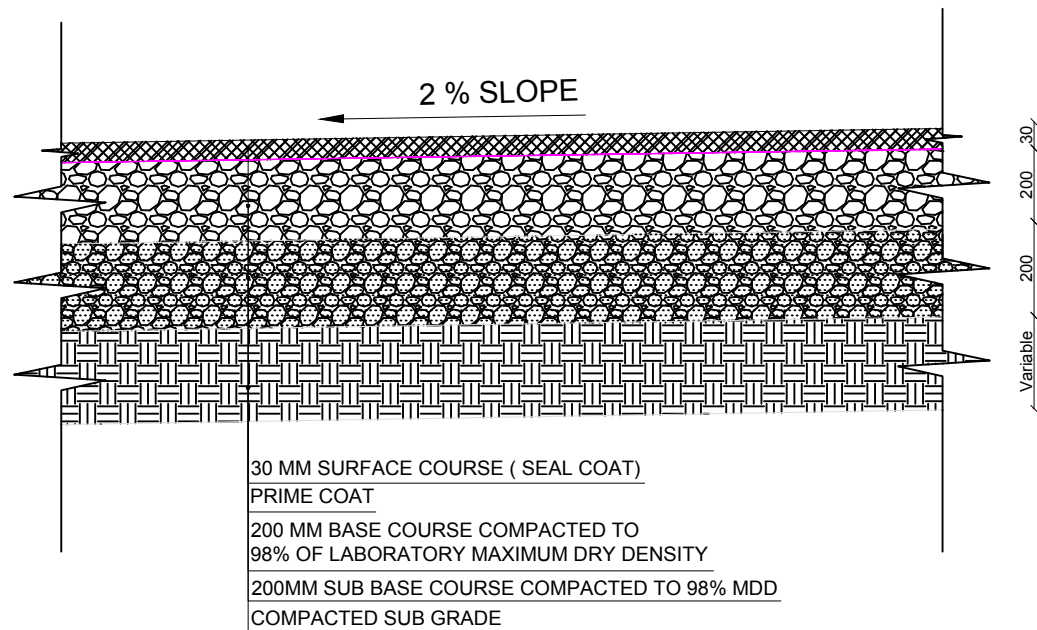
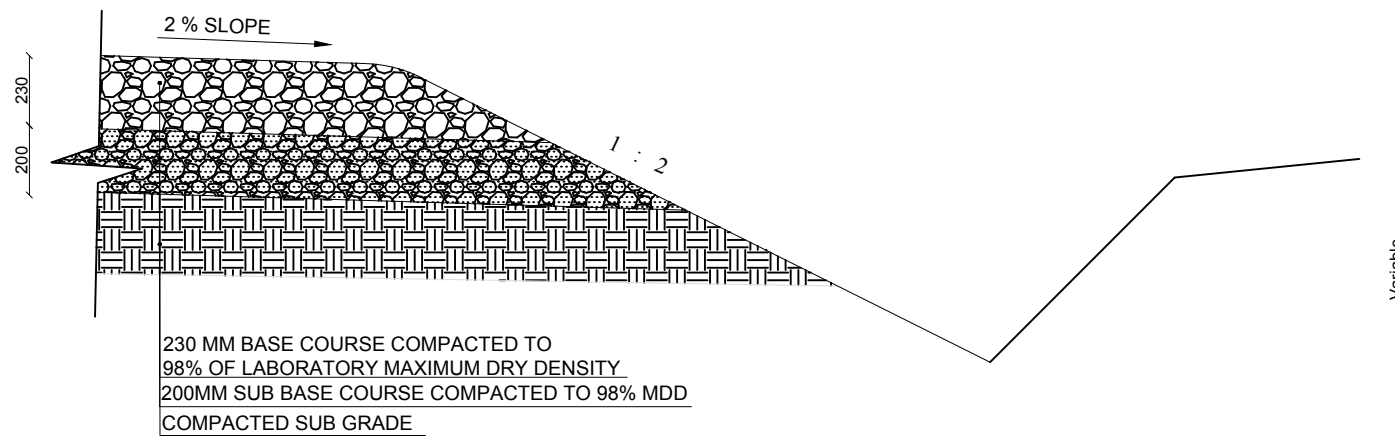
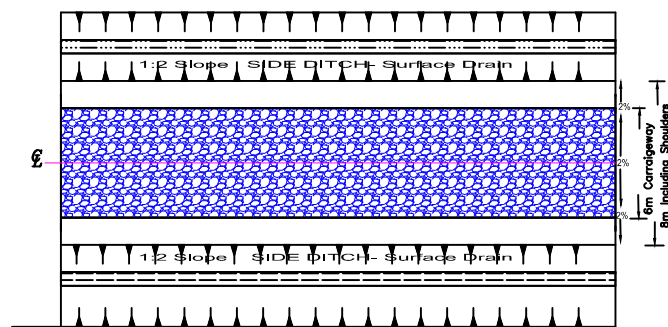
Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Wahidullah Mohebi
Associate Engineer

Scale Variable	Drawing Title Typical Cross Section in cut & fill sections	
Drawing No JWN-004-C2-005	Sheet No 1/2	Date May 2017



SEGMENT PLAN OF TYPICAL SEAL COAT STANDARD ROAD



- NOTES
1. All dimensions are in "mm" unless otherwise specified
 2. In general, the side slope shown on the typical drawing shall be applied only for small cut and fill areas. the side slopes should be determined based on the result of detailed soil survey and approval of UNOPS authority

Revision

Date	Description



Project Title:
Rehabilitation and Construction to
Bituminous Seal-Coat Standard of
Khaniqa to Aqcha District Road CH:
3+700 - 8+850 Khaniqa and Aqcha
Districts, Jawzjan Province

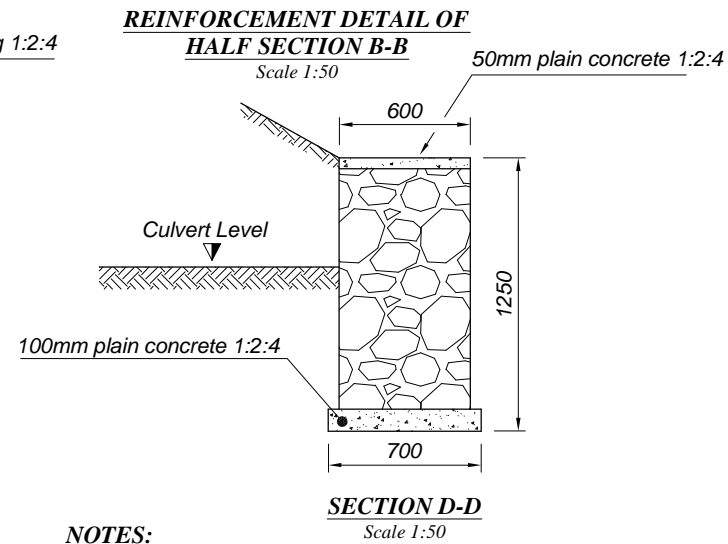
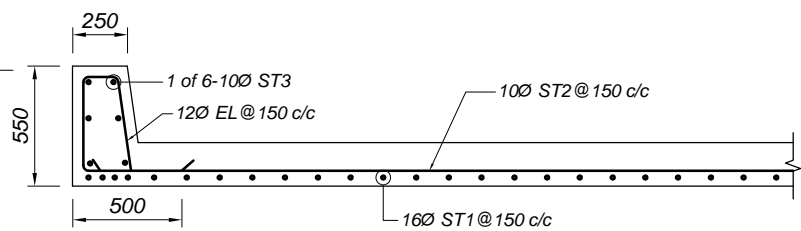
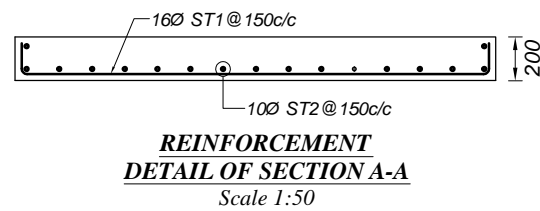
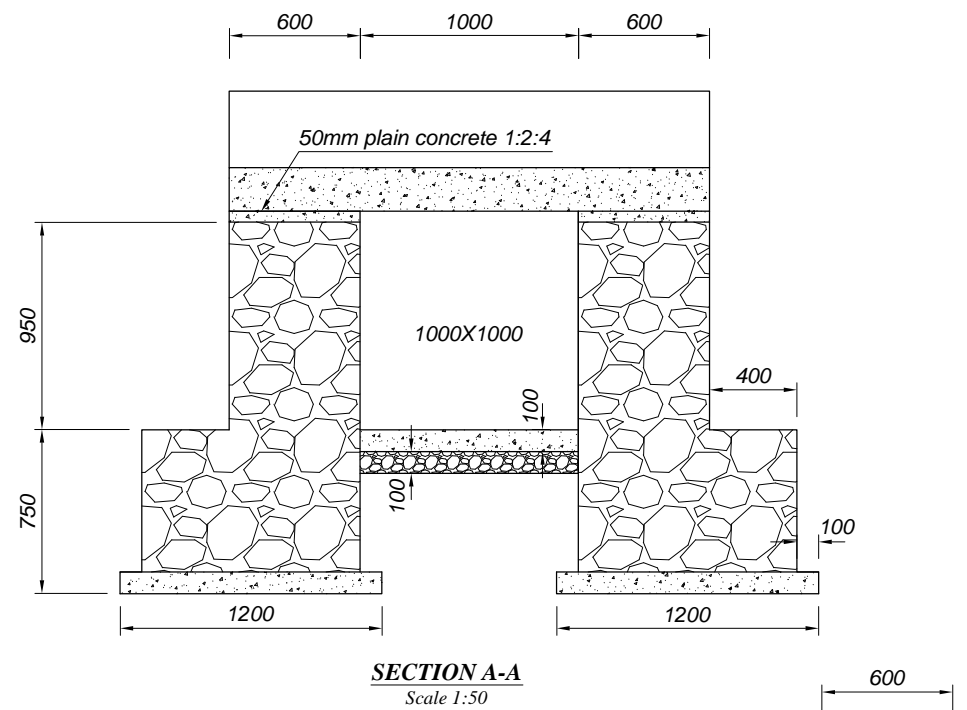
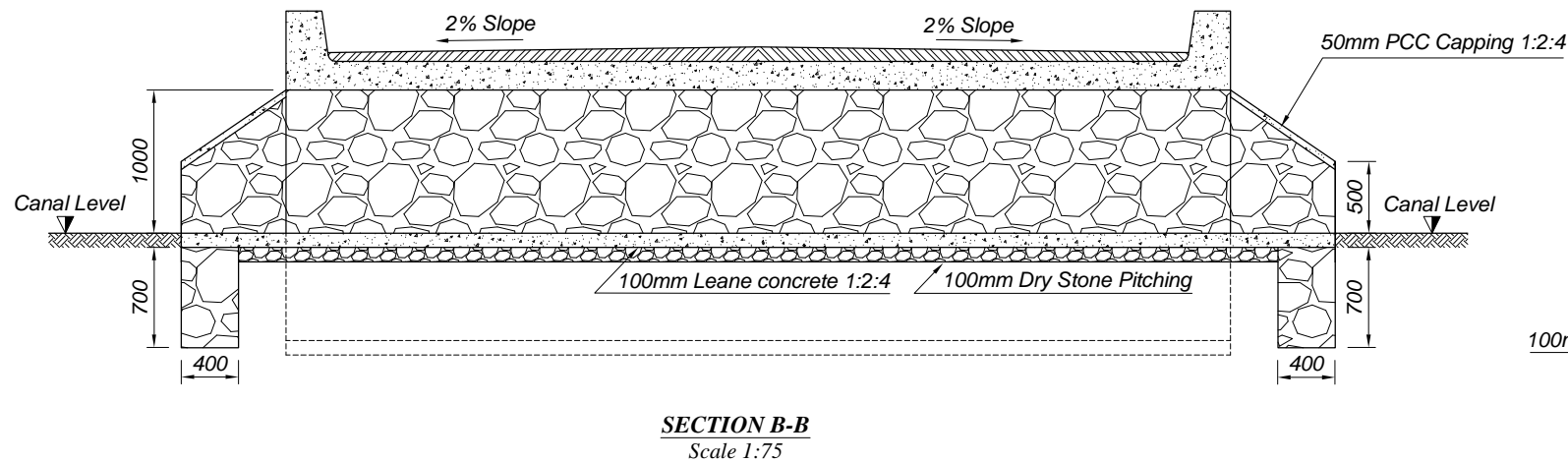
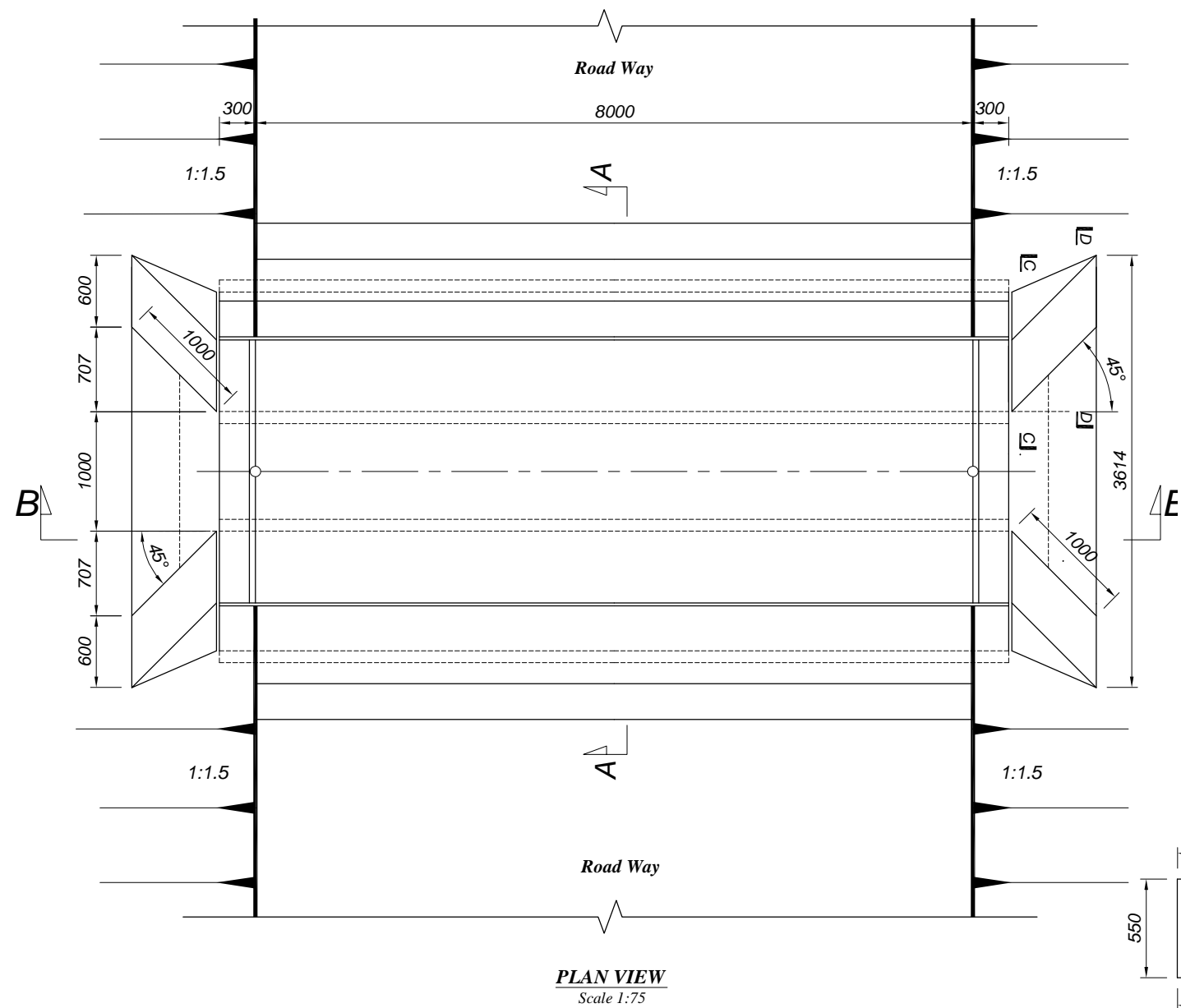
RAIP-IV
Mazar-e-Sharif

Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Wahidullah Mohebi
Associate Engineer

Scale	Drawing Title	
Variable	Typical Cross Section in cut & fill sections	
Drawing No	Sheet No	Date
JWN-004-C2-005	2/2	May 2017



NOTES:

1. All dimensions are in "mm" unless otherwise specified
2. If rounded stone from a river or other source is used, it shall not comprise of more than 30% of the total volume of stone and shall be evenly distributed through out the wall.
3. All masonry work should be pointed.
4. Concrete foundations should be reinforced for earthquake zones.
5. Angle and length of wing walls to be adjusted by the Engineer as per site conditions.
6. Refer to the bar schedule for the length and shape of reinforcement.
7. Concrete mix shall be proportioned by volume with a water/cement ratio of not more than 0.45.
8. Concrete with a recorded slump value greater than 100mm shall be rejected by the Engineer.
9. The culvert should be constructed with a fall of 2-4%.
10. Bearing capacity at fundation level should be 1.65kg/cm².

Revision

Date	Description



Project Title:

Rehabilitation and construction to bituminous seal-coat standard of Khaniqa to Aqcha District road

RAIP-IV
Mazar—e—Sharif

Approved By:

Shekhar Kumar Shrestha
Acting Project Manager

Checked By:

Noorullah Hakimy
Senior Engineer

Drawn By:

Ahmad Tayeb Nadim
Associate Engineer

Scale
1:1000




Drawing Title
Plan, Sections
& Detail

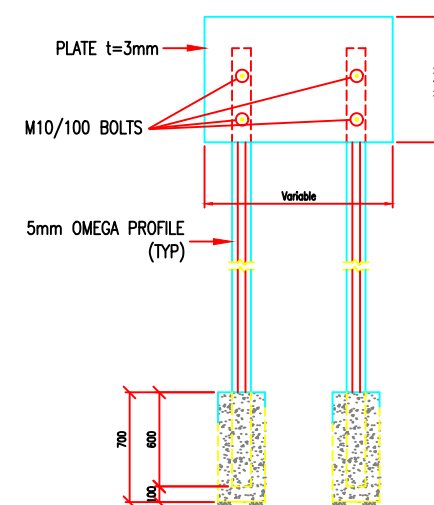
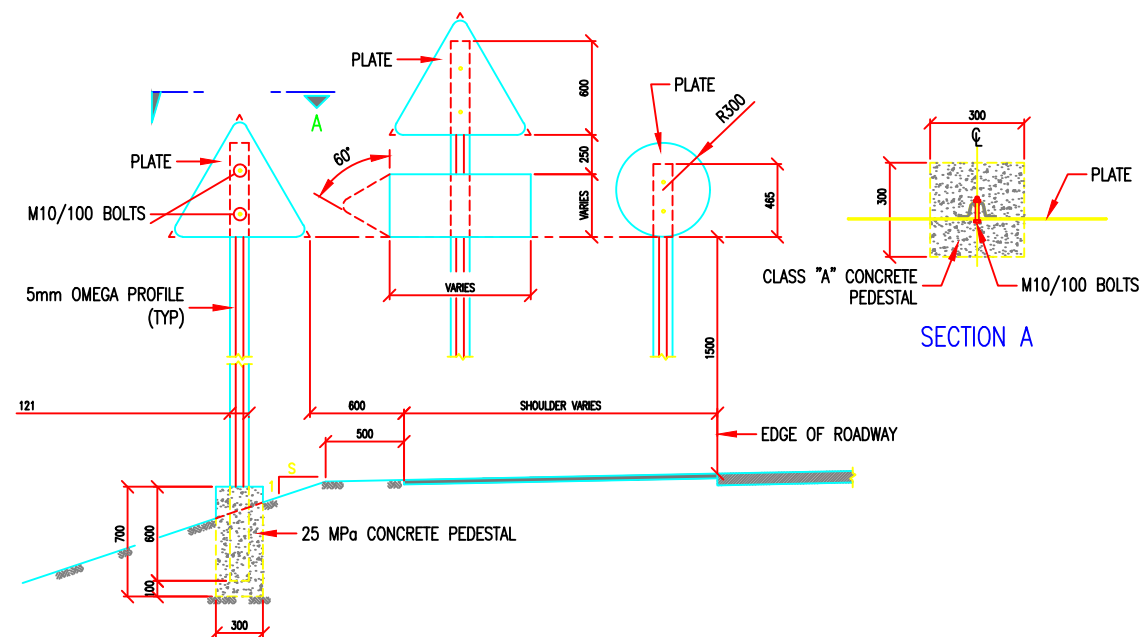
Drawing No
JWN-004-
C2-005

Sheet No
4

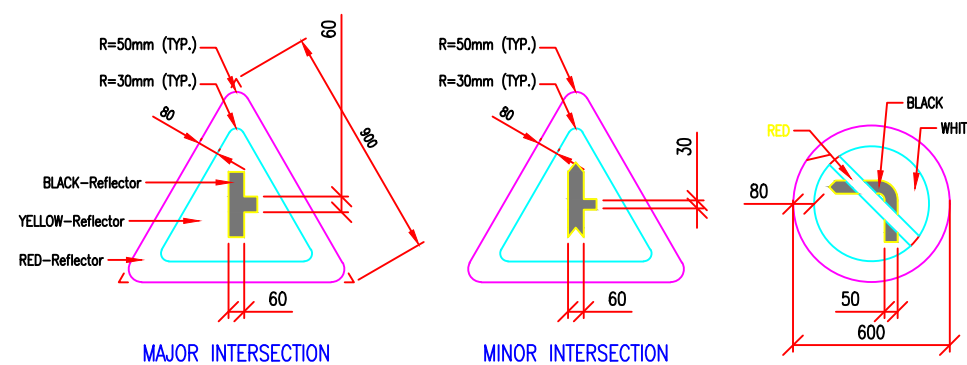
Date
May-201

SCHEDULE AND QUANTITIES OF REINFORCEMENT FOR SLAB CULVERT

SHAPE CODE	BAR SHAPE	COMPONENT	BAR MARK	BAR DIA (mm)	BAR LENGTH (mm)	NO.OF MEMBER	NO. OF BAR IN EACH MEMBER	TOTAL NO. OF BAR	TOTAL LENGTH (m)	UNIT WEIGHT OF BAR (Kg/m)	TOTAL WEIGHT (Kg)	SHAPE CODE	DIMENSIONS (mm)			
													A	B	C	D
38		TOP SLAB	ST1	16	2400	1	57	57	136.80	1.58	226.95		2100	150	150	
			ST2	10	8600	1	16	16	137.60	0.62	89.5800		8600			
20			ST3	10	2100	2	6	12	25.20	0.62	16.4100		2100			
99h			EL1	12	1900	2	16	32	60.80	0.89	56.8200		200	500	700	500
TOTAL+5%LOSSES											389.7500					



2 SIGNS INSTALLATION DETAILS



Date	Description
------	-------------



Rehabilitation and construction to bituminous seal-coat standard of Khaniqa to Aqcha District road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts Jawzjan province.

RAIP-IV
Mazar-e-Sharif

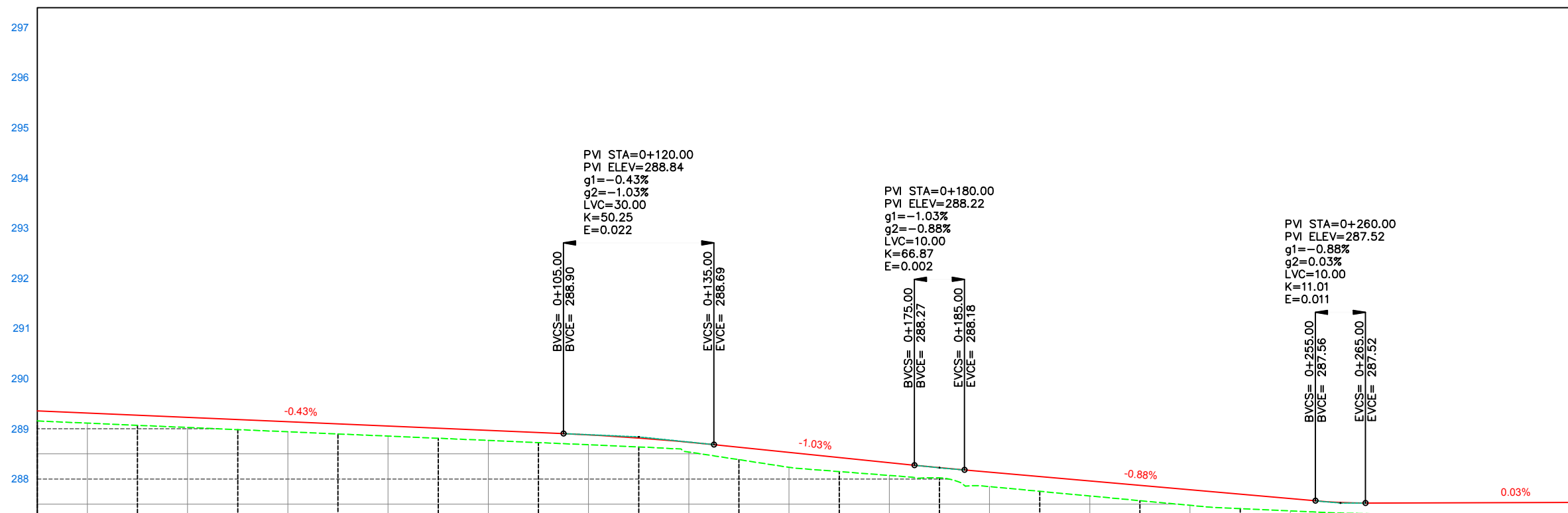
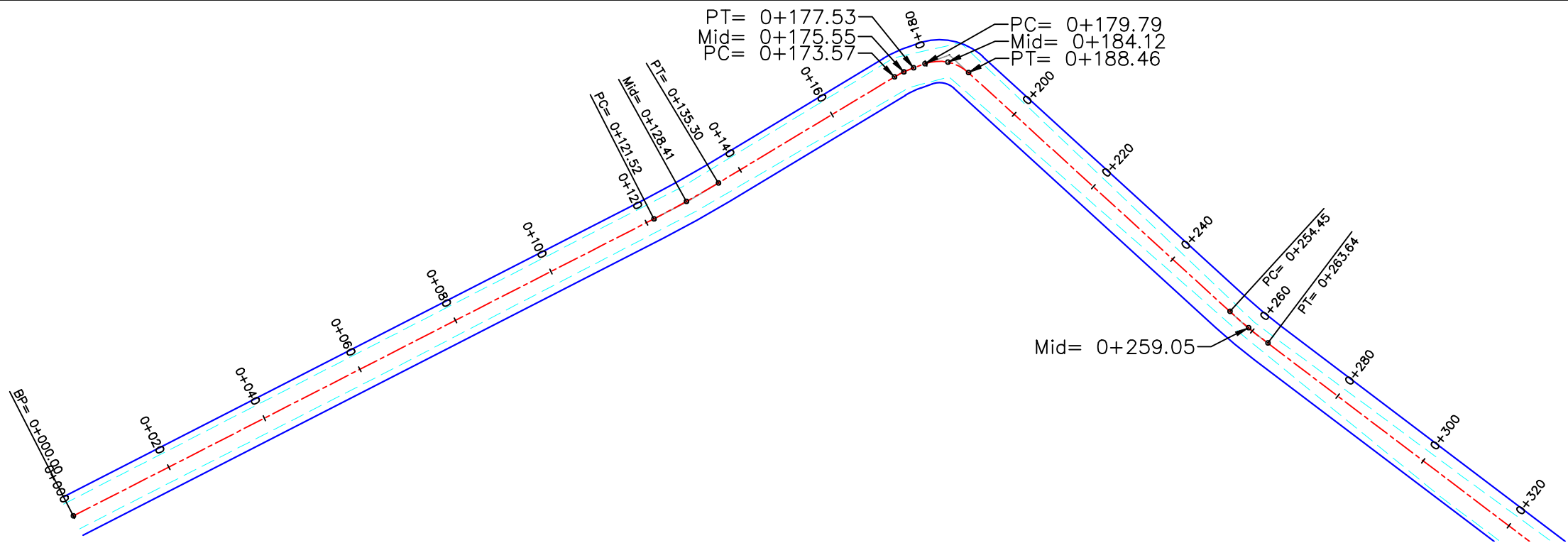
Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Ahmad Tayeb Nadim
Associate Engineer

Scale	Drawing Title Signs and Posts Details
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<i>Drawing No</i>	<i>Sheet No</i>	<i>Date</i>
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STATIONS	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300
FINISHED ROAD LEVEL	289.36	289.27	289.18	289.10	289.01	288.93	288.82	288.63	288.43	288.22	288.05	287.87	287.70	287.53	287.53	287.53
ORIGINAL GROUND LEVEL	289.36	289.07	288.98	288.90	288.81	288.73	288.64	288.39	288.15	288.02	287.75	287.57	287.41	287.32	287.29	287.30
CUT & FILL	0.00	-0.20	-0.20	-0.20	-0.20	-0.20	-0.18	-0.25	-0.28	-0.20	-0.29	-0.30	-0.29	-0.21	-0.24	-0.23
VERTICAL ALIGNMENT																
SUPERELEVATION																

Revision

Date

Description



Project Title:

Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

Approved By:

Shekhar Kumar Shrestha
Acting Project Manager

Checked By:

Noorullah Hakimy
Senior Engineer

Drawn By:

Wahidullah Mohebi
Associate Engineer

Scale
1:1000

Drawing Title
Plan & Profile

Drawing No

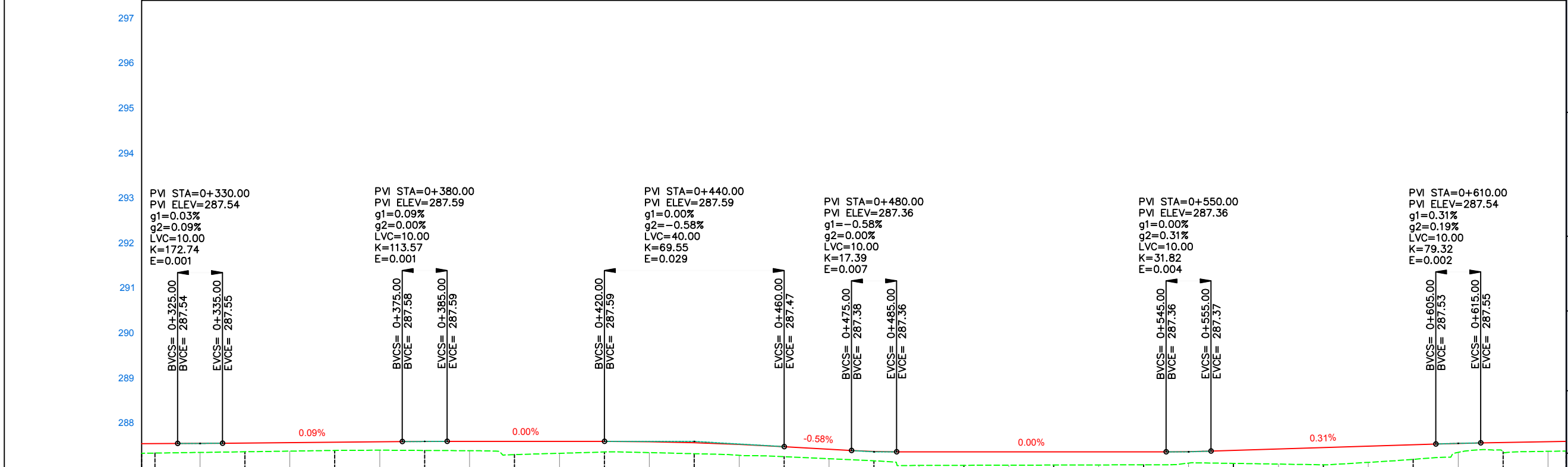
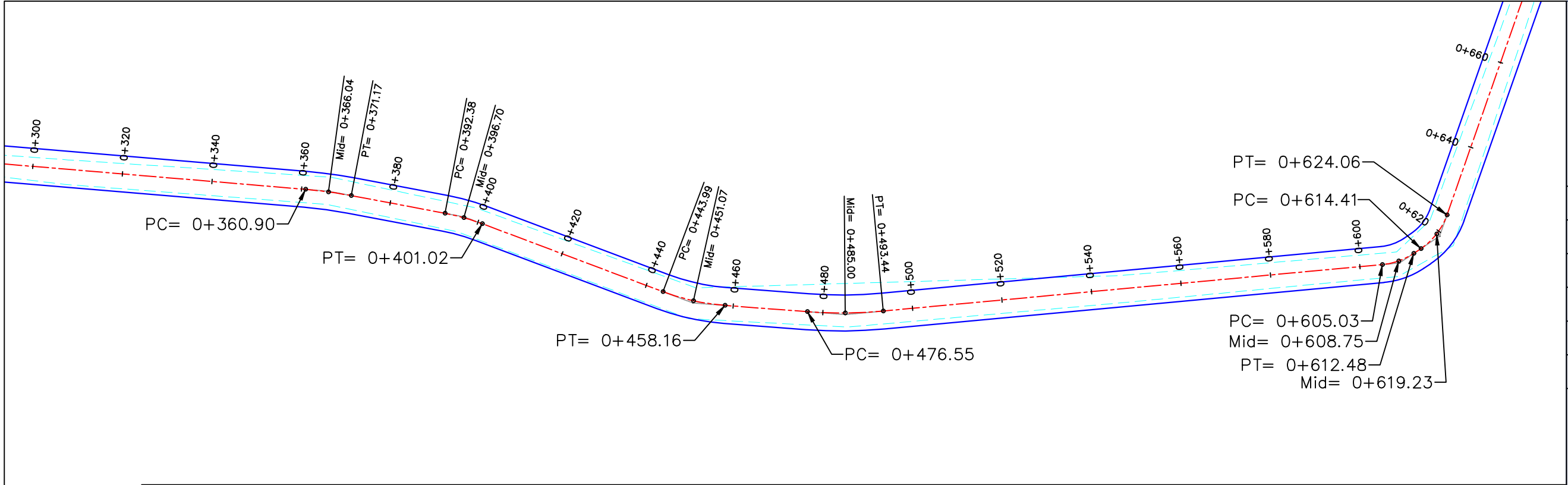
JWN-004-
C2-005

Sheet No


P & P-1

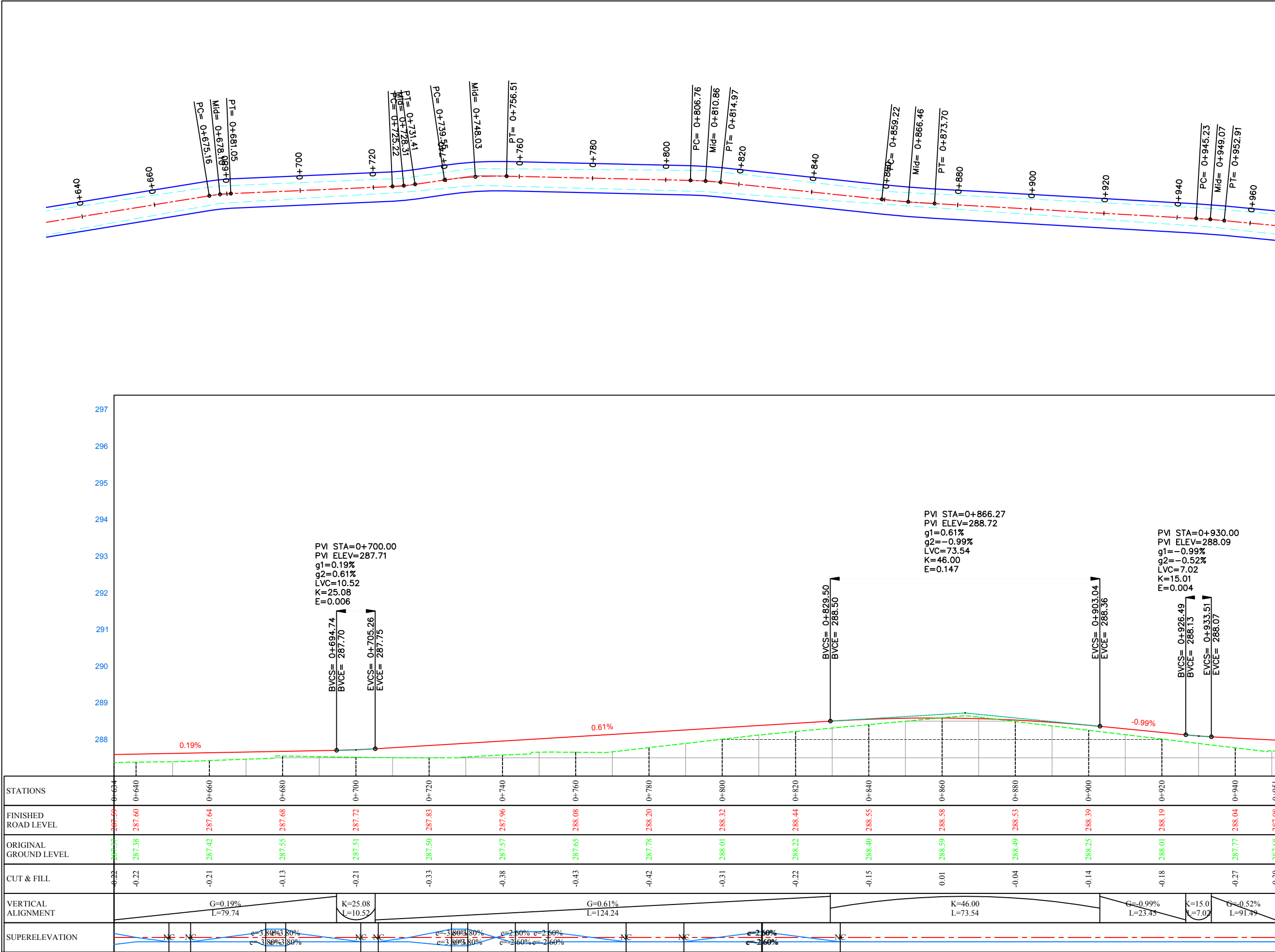
Date


May-2017

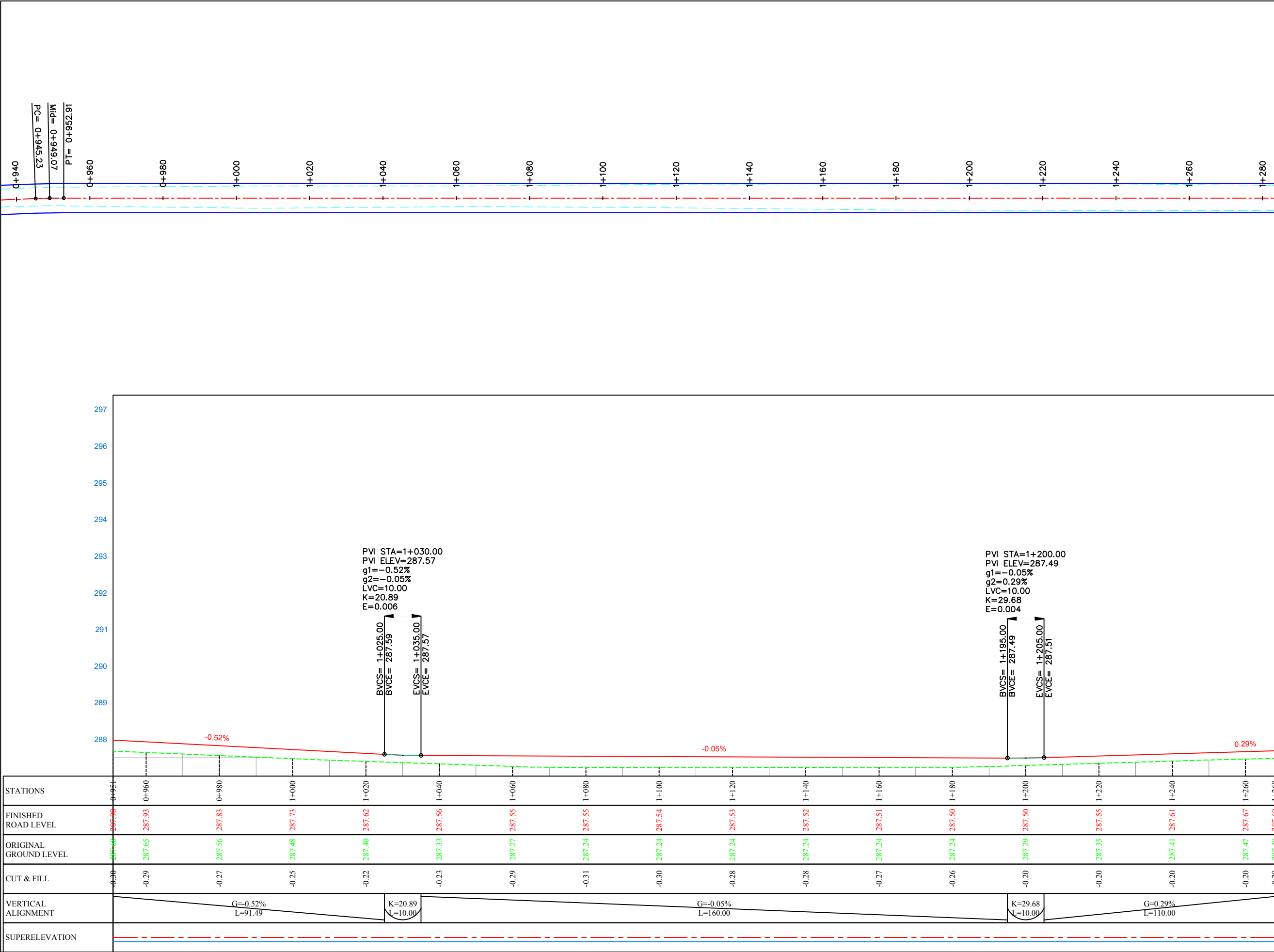


STATIONS	0+317	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+621	
FINISHED ROAD LEVEL	287.54	287.54	287.55	287.57	287.58	287.59	287.59	287.56	287.47	287.36	287.36	287.36	287.36	287.39	287.45	287.51	287.56	287.56	
ORIGINAL GROUND LEVEL	287.32	287.33	287.36	287.39	287.39	287.29	287.35	287.31	287.25	287.16	287.06	287.06	287.07	287.10	287.07	287.19	287.35	287.35	
CUT & FILL	-0.22	-0.21	-0.19	-0.18	-0.20	-0.29	-0.23	-0.24	-0.22	-0.21	-0.30	-0.29	-0.29	-0.29	-0.38	-0.33	-0.21	-0.22	
VERTICAL ALIGNMENT																			
SUPERELEVATION																			

Revision		
Date	Description	
<div><div>UNOPS AFGHANISTAN</div></div>		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
<div>RAIP-IV</div> <div>Mazar—e—Sharif</div>		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-2	Date May-2017



Revision		
Date	Description	
<div>UNOPS AFGHANISTAN</div>		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
RAIP-IV Mazar—e—Sharif		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004- C2-005	Sheet No P & P-3	Date May-2017



Revision

Date	Description

Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

Approved By:

Shekhar Kumar Shrestha
Acting Project Manager

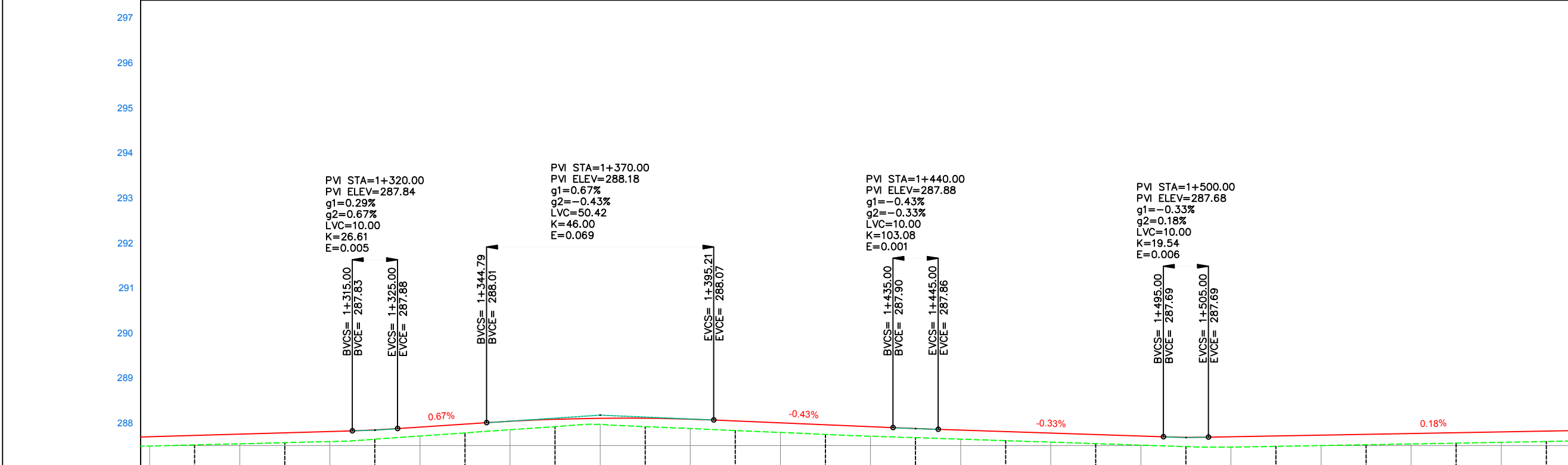
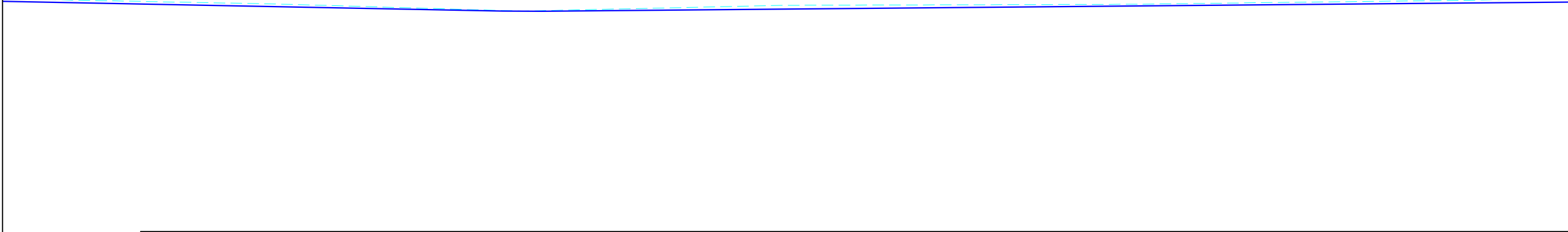
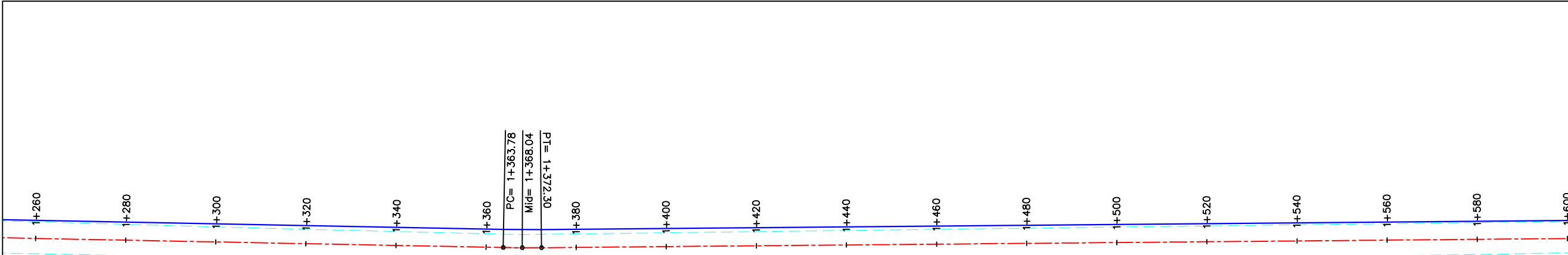
Checked By:

Noorullah Hakimy
Senior Engineer


Drawn By:

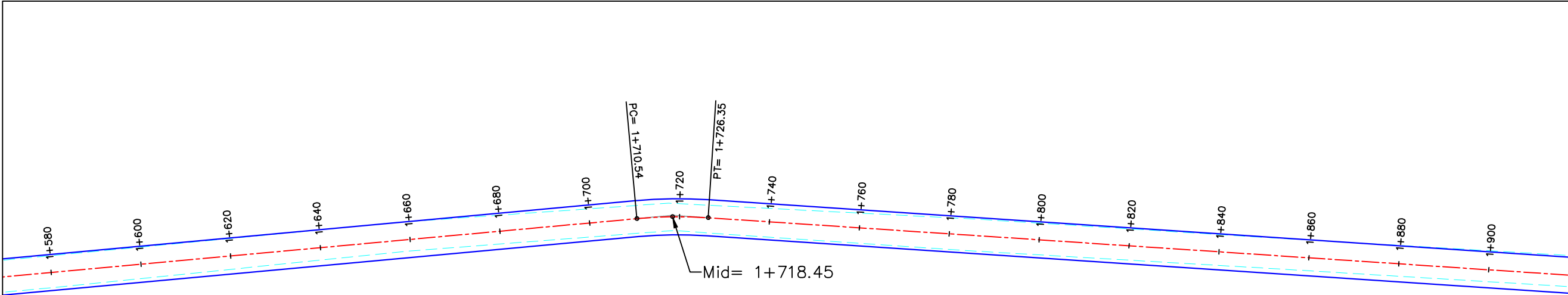
Wahidullah Mohebi
Associate Engineer

Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-4	Date May-2017



STATIONS	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580
FINISHED ROAD LEVEL	287.68	287.73	287.78	287.85	287.98	288.08	288.11	288.05	287.96	287.88	287.81	287.74	287.68	287.71	287.75	287.79	287.82
ORIGINAL GROUND LEVEL	287.68	287.51	287.56	287.64	287.78	287.92	287.92	287.83	287.75	287.68	287.61	287.54	287.48	287.48	287.52	287.55	287.59
CUT & FILL	0.00	-0.21	-0.22	-0.20	-0.19	-0.16	-0.19	-0.21	-0.21	-0.20	-0.20	-0.20	-0.21	-0.23	-0.23	-0.23	-0.23
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SUPERELEVATION	<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>																

Revision		
Date	Description	
<div>UNOPS AFGHANISTAN</div>		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
RAIP-IV Mazar—e—Sharif		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-5	Date May-2017



Revision	
Date	Description



Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

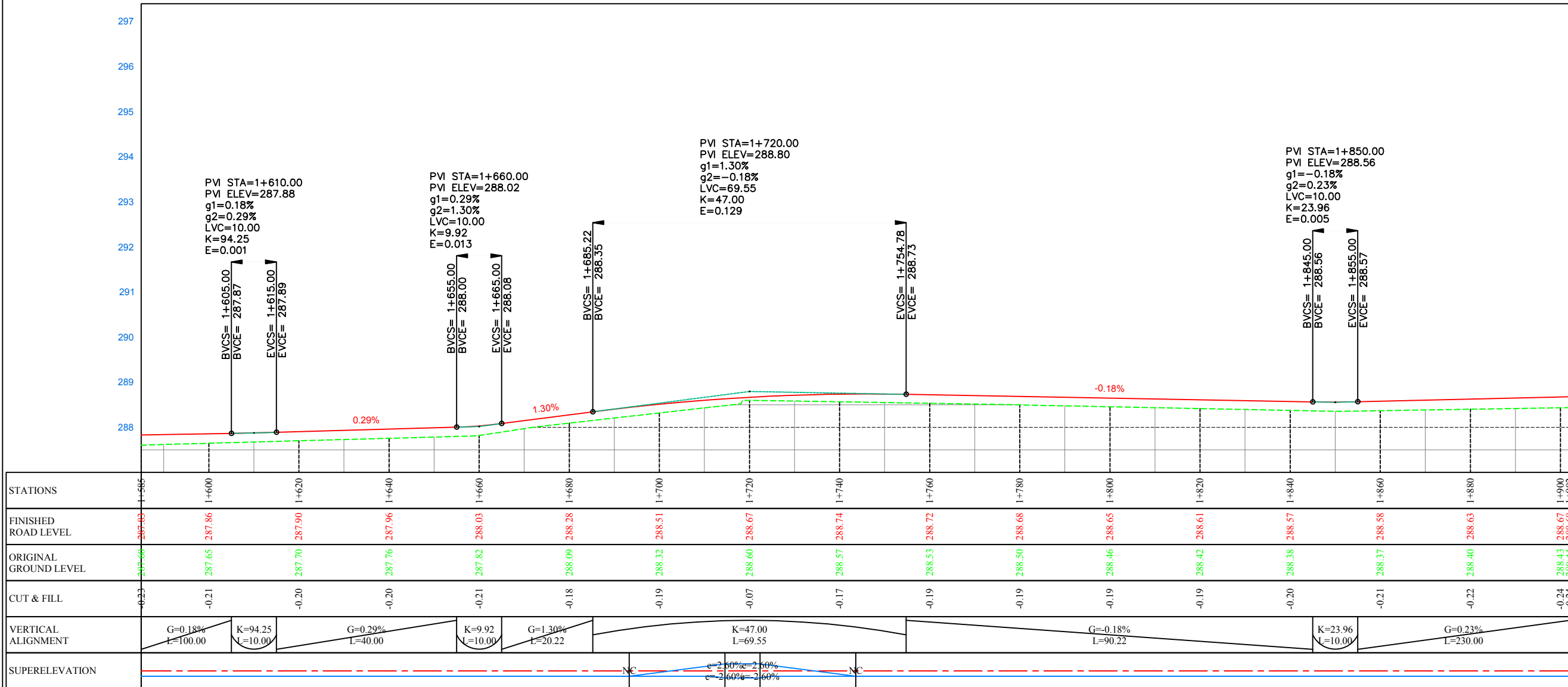
Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

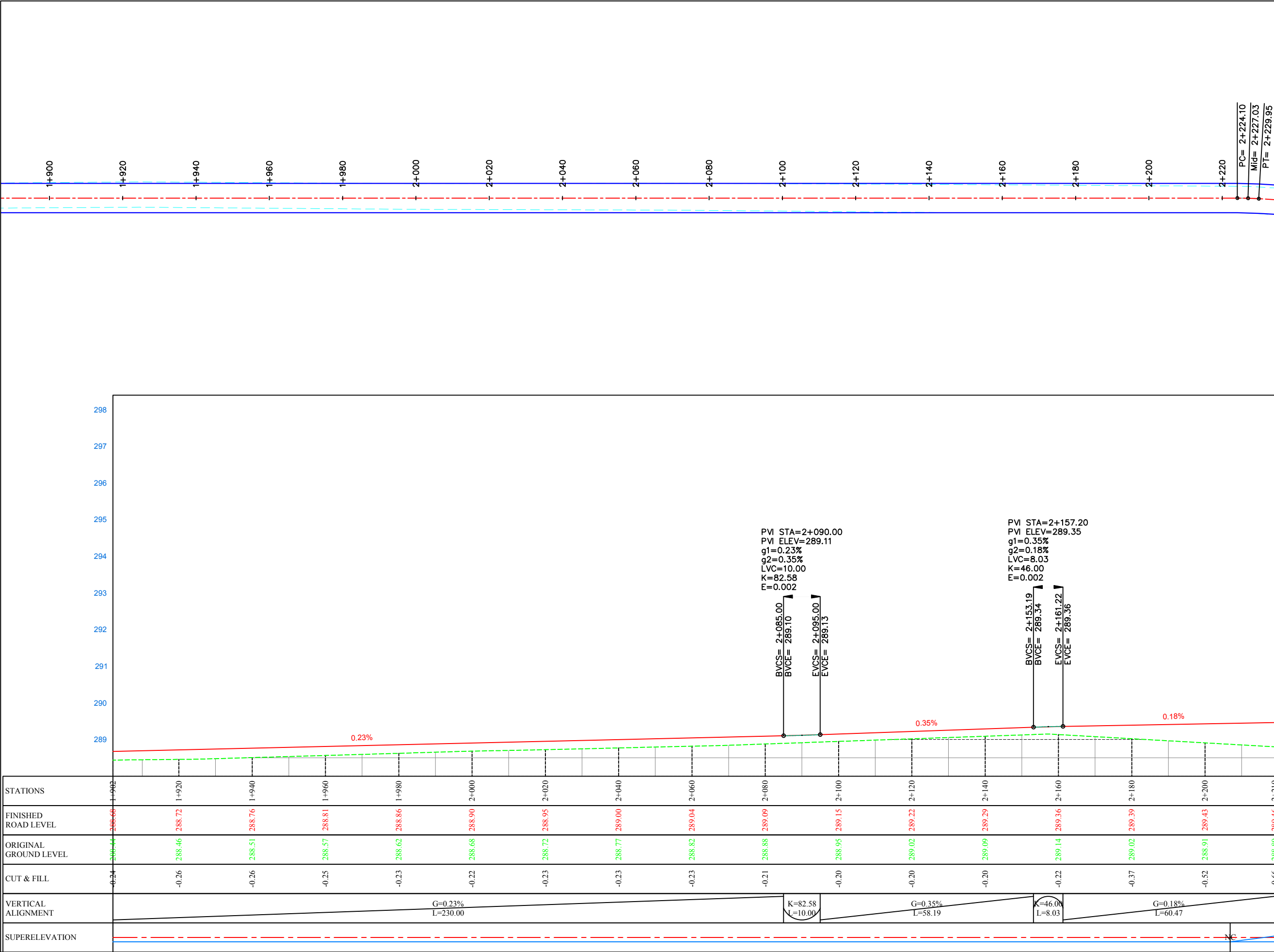
Checked By:
Noorullah Hakimy
Senior Engineer


Drawn By:
Wahidullah Mohebi
Associate Engineer

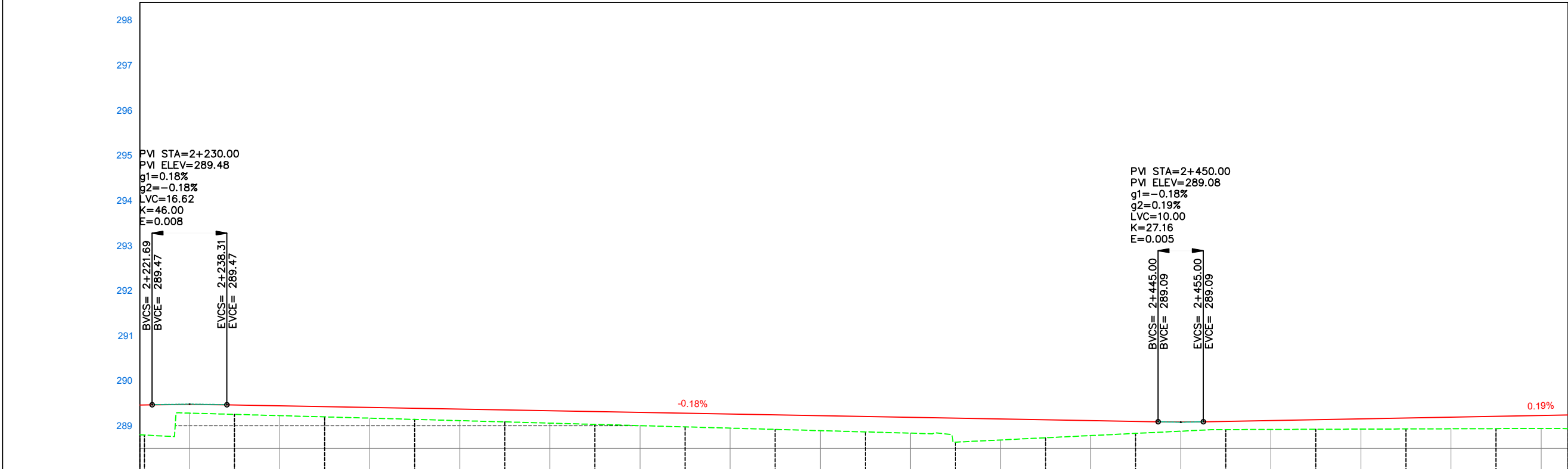
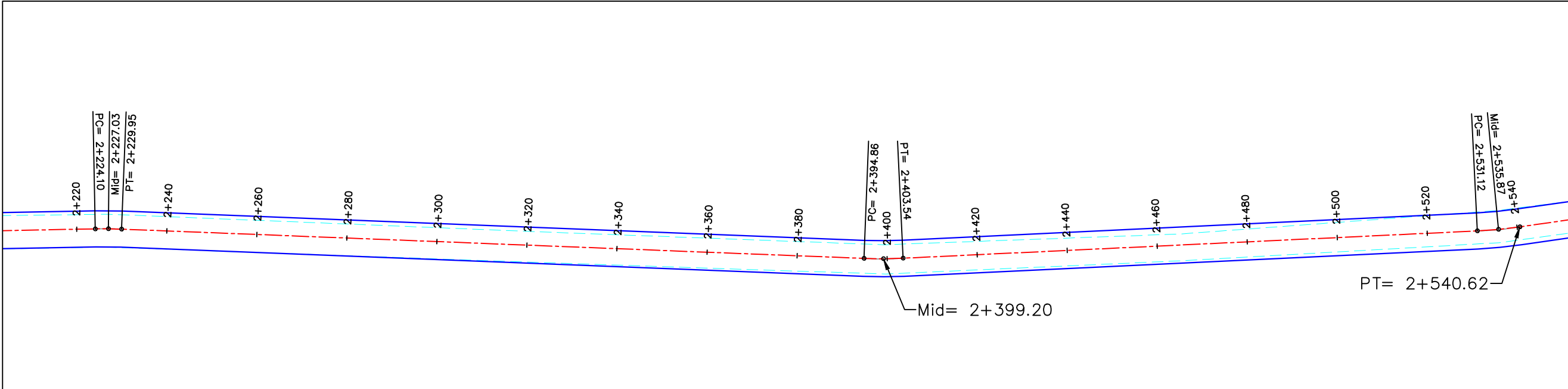
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Drawing No JWN-004-C2-005	Sheet No P & P-6	Date May-2017
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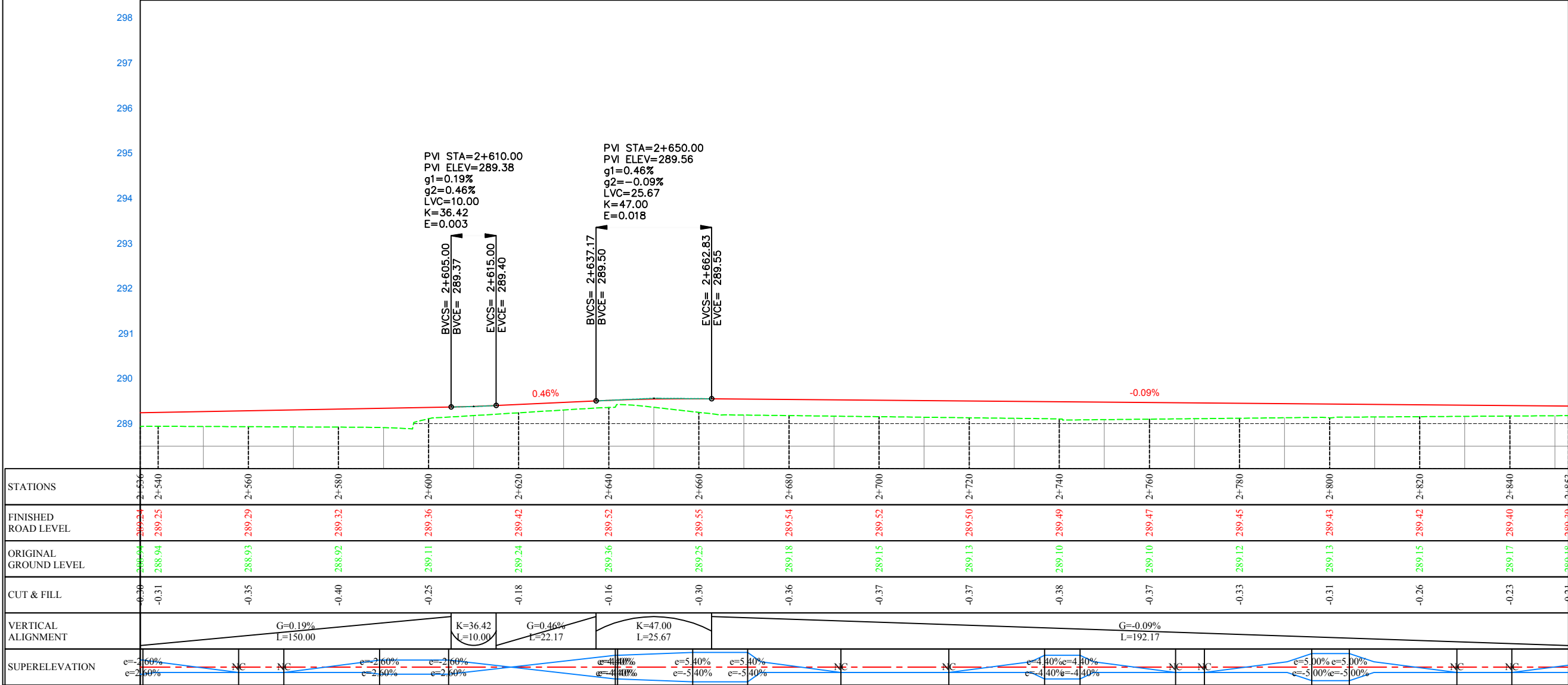
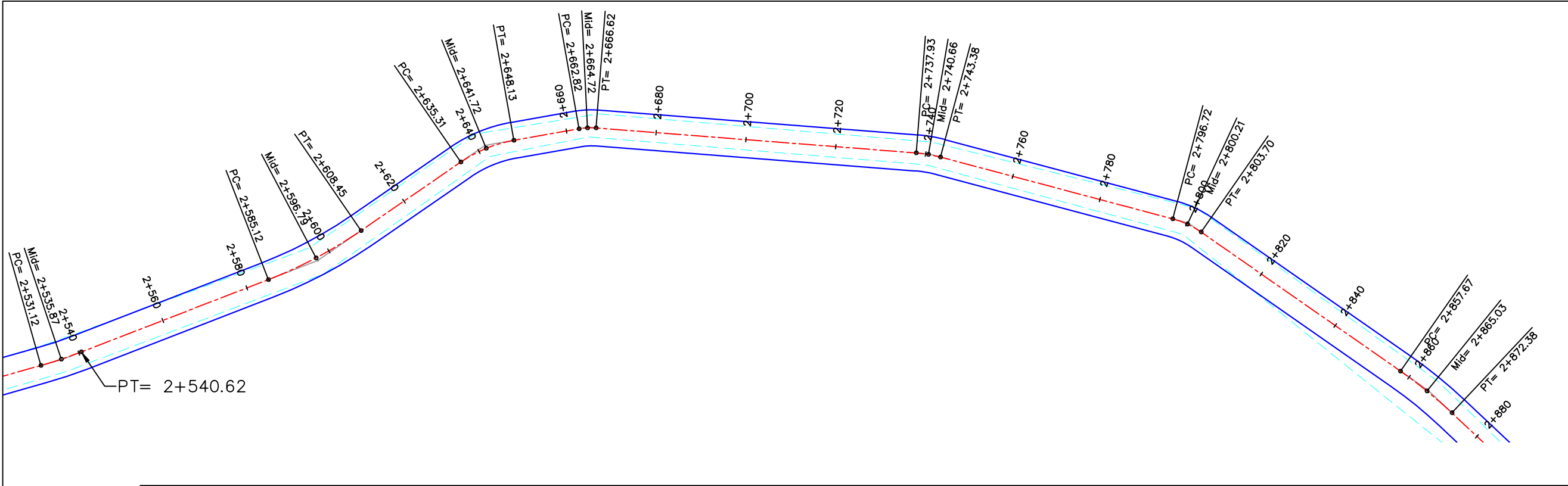


Revision		
Date	Description	
<div>UNOPS AFGHANISTAN</div>		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
RAIP-IV Mazar—e—Sharif		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-7	Date May-2017




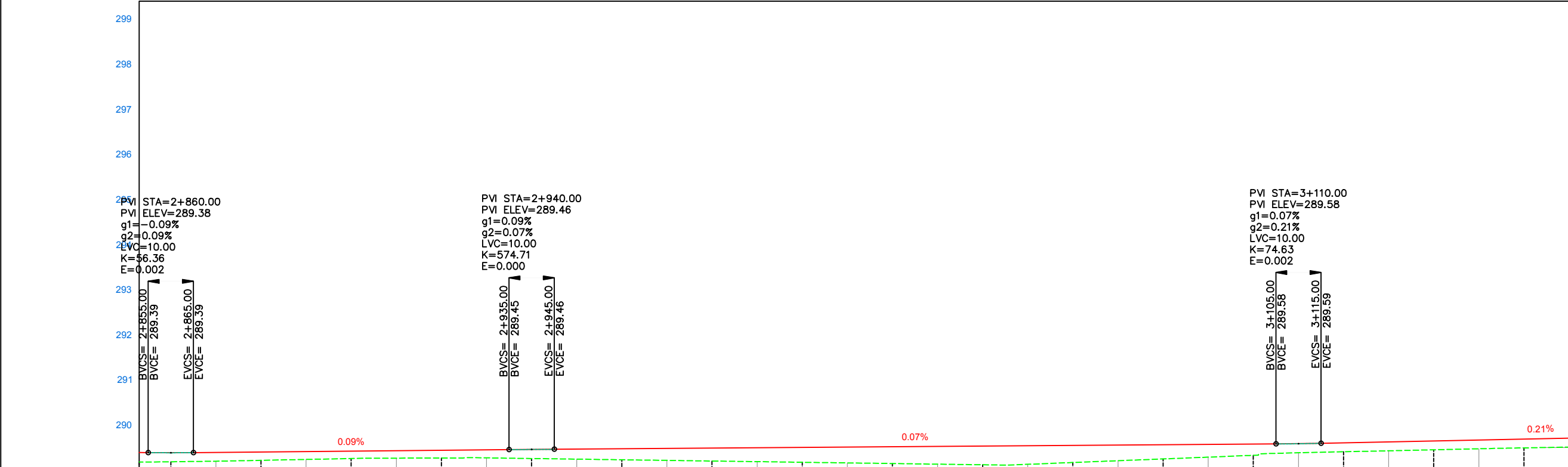
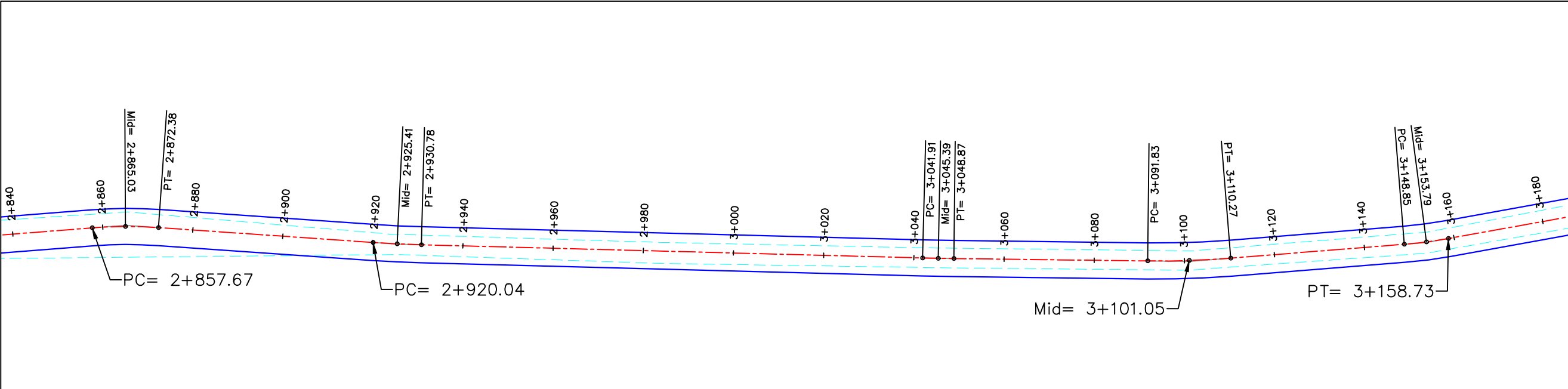
STATIONS	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520
FINISHED ROAD LEVEL	289.46	289.46	289.43	289.39	289.35	289.32	289.28	289.24	289.21	289.17	289.14	289.10	289.10	289.14	289.17	289.21
ORIGINAL GROUND LEVEL	288.80	289.25	289.20	289.14	289.09	289.03	288.98	288.92	288.87	288.64	288.73	288.83	288.92	288.92	288.93	288.94
CUT & FILL	0.66	-0.21	-0.23	-0.25	-0.27	-0.29	-0.30	-0.32	-0.34	-0.54	-0.40	-0.27	-0.18	-0.21	-0.24	-0.27
VERTICAL ALIGNMENT																
SUPERELEVATION																

Revision		
Date	Description	
<div>UNOPS AFGHANISTAN</div>		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
RAIP-IV Mazar—e—Sharif		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-8	Date May-2017



STATIONS	2+536	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700	2+720	2+740	2+760	2+780	2+800	2+820	2+840	2+880
FINISHED ROAD LEVEL	289.24	289.25	289.29	289.32	289.36	289.42	289.52	289.55	289.54	289.52	289.50	289.49	289.47	289.45	289.43	289.42	289.40	289.30
ORIGINAL GROUND LEVEL	289.94	288.94	288.93	288.92	289.11	289.24	289.36	289.25	289.18	289.15	289.13	289.10	289.10	289.12	289.13	289.15	289.17	289.90
CUT & FILL	-0.30	-0.31	-0.35	-0.40	-0.25	-0.18	-0.16	-0.30	-0.36	-0.37	-0.37	-0.38	-0.37	-0.33	-0.31	-0.26	-0.23	-0.31
VERTICAL ALIGNMENT	<div><div><div>G=0.19%</div><div>L=150.00</div></div><div><div>K=36.42</div><div>L=10.00</div></div><div><div>G=0.46%</div><div>L=22.17</div></div><div><div>K=47.00</div><div>L=25.67</div></div><div><div>G=-0.09%</div><div>L=192.17</div></div></div>																	
SUPERELEVATION	<div><div><div>e=-2.60%</div><div>e=-2.60%</div></div><div><div>NC</div><div>NC</div></div><div><div>e=-2.60%</div><div>e=-2.60%</div></div><div><div>e=-2.60%</div><div>e=-2.60%</div></div><div><div>e=-4.40%</div><div>e=-5.40%</div></div><div><div>e=-4.40%</div><div>e=-5.40%</div></div><div><div>e=-4.40%</div><div>e=-5.40%</div></div><div><div>NC</div><div>NC</div></div><div><div>e=-4.40%</div><div>e=-5.40%</div></div><div><div>e=-4.40%</div><div>e=-5.40%</div></div><div><div>NC</div><div>NC</div></div><div><div>e=-5.00%</div><div>e=-5.00%</div></div><div><div>e=-5.00%</div><div>e=-5.00%</div></div><div><div>NC</div><div>NC</div></div><div><div>NC</div><div>NC</div></div></div>																	

Revision		
Date	Description	
<div><div>UNOPS</div><div>AFGHANISTAN</div></div>		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
RAIP-IV Mazar—e—Sharif		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-9	Date May-2017



STATIONS	2+840	2+860	2+880	2+900	2+920	2+940	2+960	2+980	3+000	3+020	3+040	3+060	3+080	3+100	3+120	3+140	3+160
FINISHED ROAD LEVEL	289.38	289.39	289.40	289.42	289.44	289.46	289.47	289.49	289.50	289.52	289.53	289.55	289.56	289.58	289.60	289.65	289.69
ORIGINAL GROUND LEVEL	289.40	289.18	289.22	289.26	289.27	289.26	289.23	289.20	289.17	289.15	289.12	289.17	289.25	289.33	289.41	289.45	289.49
CUT & FILL	-0.02	-0.20	-0.19	-0.16	-0.17	-0.20	-0.24	-0.29	-0.33	-0.37	-0.41	-0.38	-0.31	-0.25	-0.20	-0.20	-0.20
VERTICAL ALIGNMENT	<div><div><div>G=0.09% L=70.00</div><div>G=0.07% L=160.00</div><div>G=0.21% L=97.50</div></div></div>																
SUPERELEVATION	<div><div><div>e=2.50% L=10.00</div><div>NC</div><div>e=2.50% L=10.00</div></div></div>																

Revision

Date	Description

Project Title:

Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV

Mazar-e-Sharif

Approved By:

Shekhar Kumar Shrestha
Acting Project Manager

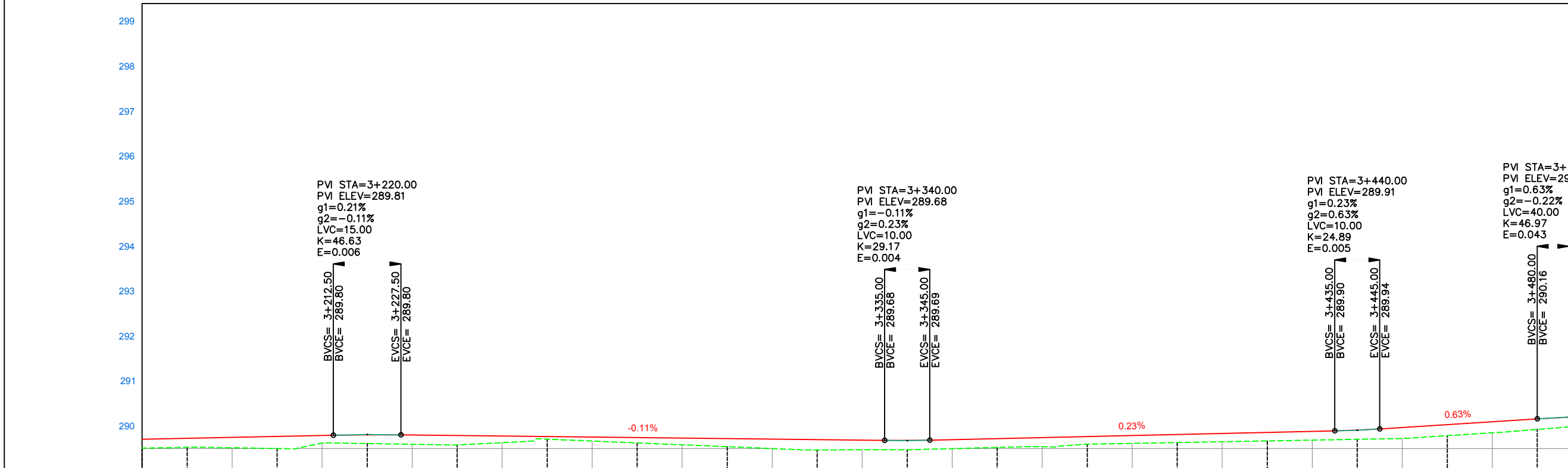
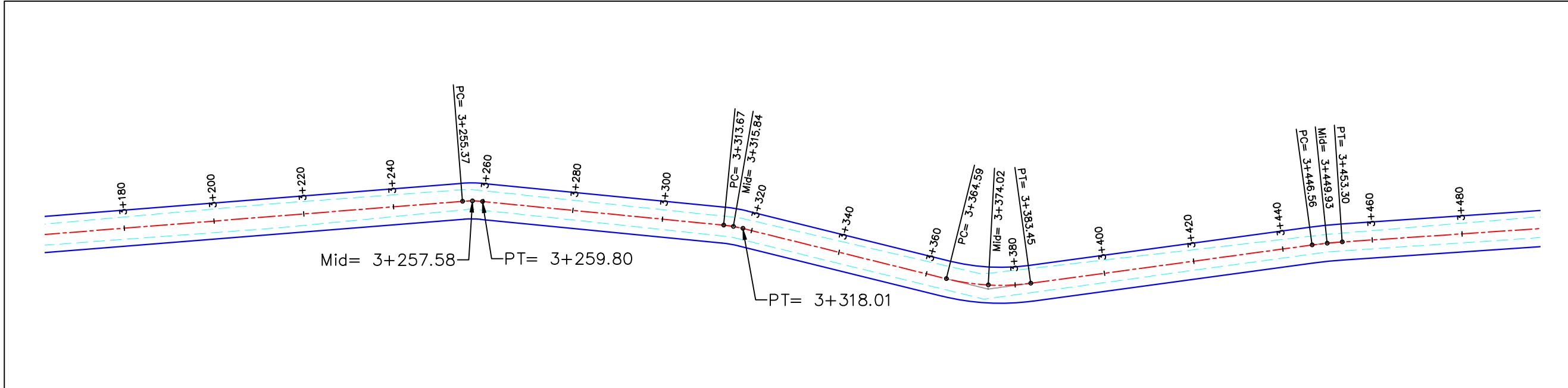
Checked By:

Noorullah Hakimy
Senior Engineer

Drawn By:

Wahidullah Mohebi
Associate Engineer

Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-10	Date May-2017



STATIONS	3+170	3+180	3+200	3+220	3+240	3+260	3+280	3+300	3+320	3+340	3+360	3+380	3+400	3+420	3+440	3+460	3+480
FINISHED ROAD LEVEL	289.71	289.73	289.77	289.81	289.79	289.77	289.74	289.72	289.70	289.68	289.72	289.77	289.81	289.86	289.91	290.03	290.16
ORIGINAL GROUND LEVEL	289.51	289.53	289.50	289.61	289.58	289.71	289.63	289.54	289.47	289.48	289.53	289.60	289.63	289.67	289.71	289.79	289.93
CUT & FILL	0.20	-0.20	-0.27	-0.19	-0.21	-0.06	-0.12	-0.18	-0.23	-0.20	-0.20	-0.17	-0.18	-0.19	-0.21	-0.24	-0.23
VERTICAL ALIGNMENT	<div><div></div><div>G=0.21% L=97.50</div><div>K=46.63 L=15.00</div><div>G=-0.11% L=107.50</div><div>K=29.17 L=10.00</div><div>G=0.23% L=90.00</div><div>K=24.89 L=10.00</div><div>G=0.63% L=35.00</div><div>K=46.97 L=40.00</div></div>																
SUPERELEVATION	<div><div>NC</div><div>NC</div><div>e=4.60% e=4.60%</div><div>NC</div><div>NC</div><div>e=4.40% e=4.40%</div><div>NC</div><div>NC</div><div>e=3.80% e=3.80%</div><div>NC</div><div>NC</div><div>e=2.80% e=2.80%</div><div>NC</div><div>NC</div><div>e=2.80% e=2.80%</div><div>NC</div><div>NC</div></div>																

Revision

Date	Description

Project Title:

Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV

Mazar-e-Sharif

Approved By:

Shekhar Kumar Shrestha
Acting Project Manager

Checked By:

Noorullah Hakimy
Senior Engineer

Drawn By:

Wahidullah Mohebi
Associate Engineer

Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-11	Date May-2017

PC= 3+502.65
Mid= 3+505.19
PT= 3+507.72

Mid= 3+560.70

Mid= 3+580.33

PC= 3+589.93

Mid= 3+594.97

PT= 3+600.01

PC= 3+604.44

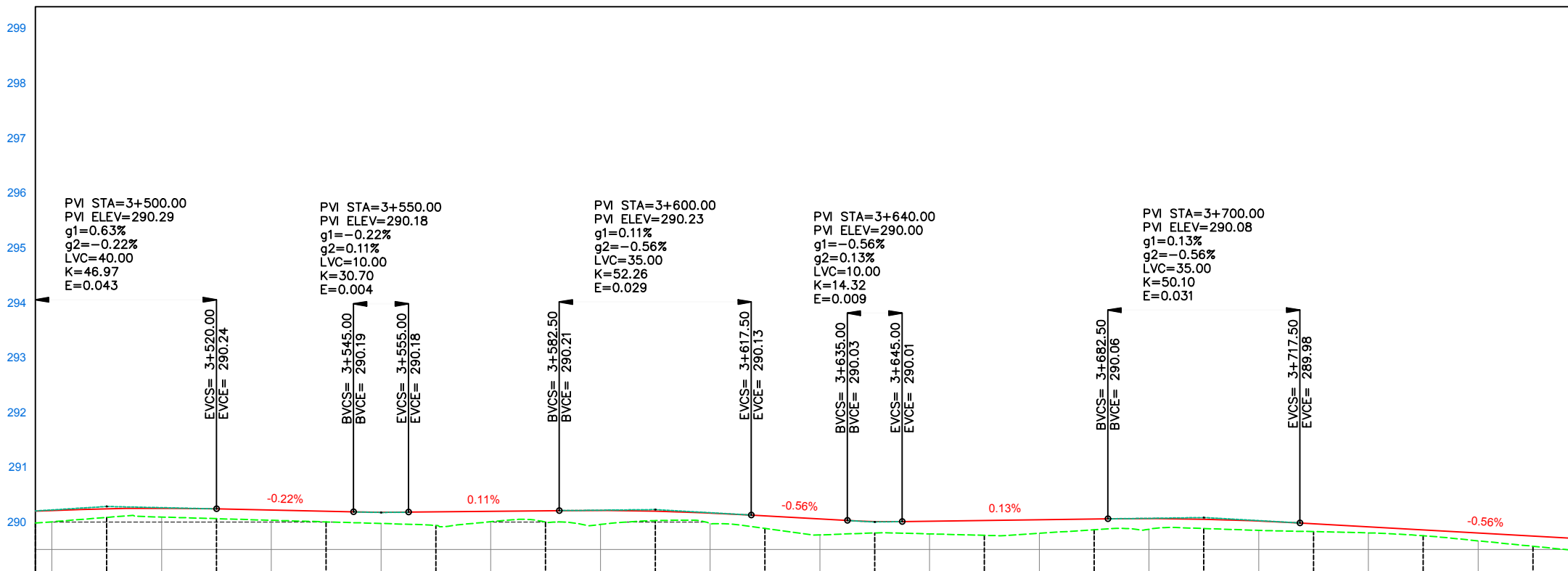
Mid= 3+609.93

PT= 3+615.43

PC= 3+683.20

PT= 3+694.59

Mid= 3+737.07



STATIONS	3+487	3+500	3+520	3+540	3+560	3+580	3+600	3+620	3+640	3+660	3+680	3+700	3+720	3+740	3+760					
FINISHED ROAD LEVEL	290.29	290.24	290.24	290.20	290.19	290.21	290.20	290.12	290.01	290.03	290.06	290.05	289.97	289.86	289.74					
ORIGINAL GROUND LEVEL	289.88	290.09	290.06	290.00	289.94	290.00	290.03	289.88	289.80	289.76	289.86	289.88	289.83	289.75	289.56					
CUT & FILL	0.22	-0.16	-0.18	-0.19	-0.25	-0.21	-0.17	-0.23	-0.21	-0.27	-0.20	-0.17	-0.14	-0.11	-0.18					
VERTICAL ALIGNMENT	K=46.97 L=40.00		G=-0.22% L=25.00		K=30.70 L=10.00		G=0.11% L=27.50		K=52.26 L=35.00		G=-0.56% L=17.50		K=14.32 L=10.00		G=0.13% L=37.50		K=50.10 L=35.00		G=-0.56% L=67.50	
SUPERELEVATION	NC		e=-4.00% e=4.00%		e=-5.40% e=5.40%		e=-5.40% e=5.40%		e=-5.40% e=5.40%		e=-6.00% e=6.00%		e=-6.00% e=6.00%		e=-4.00% e=4.00%		NC			

Revision

Date	Description



Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

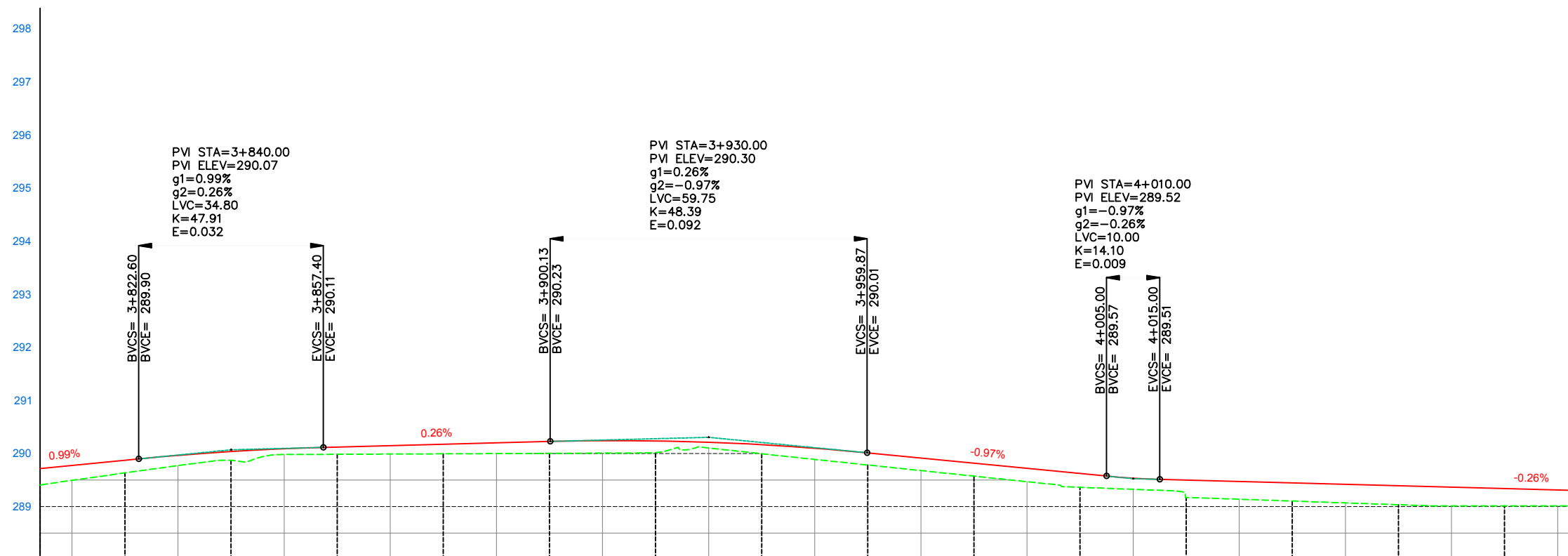
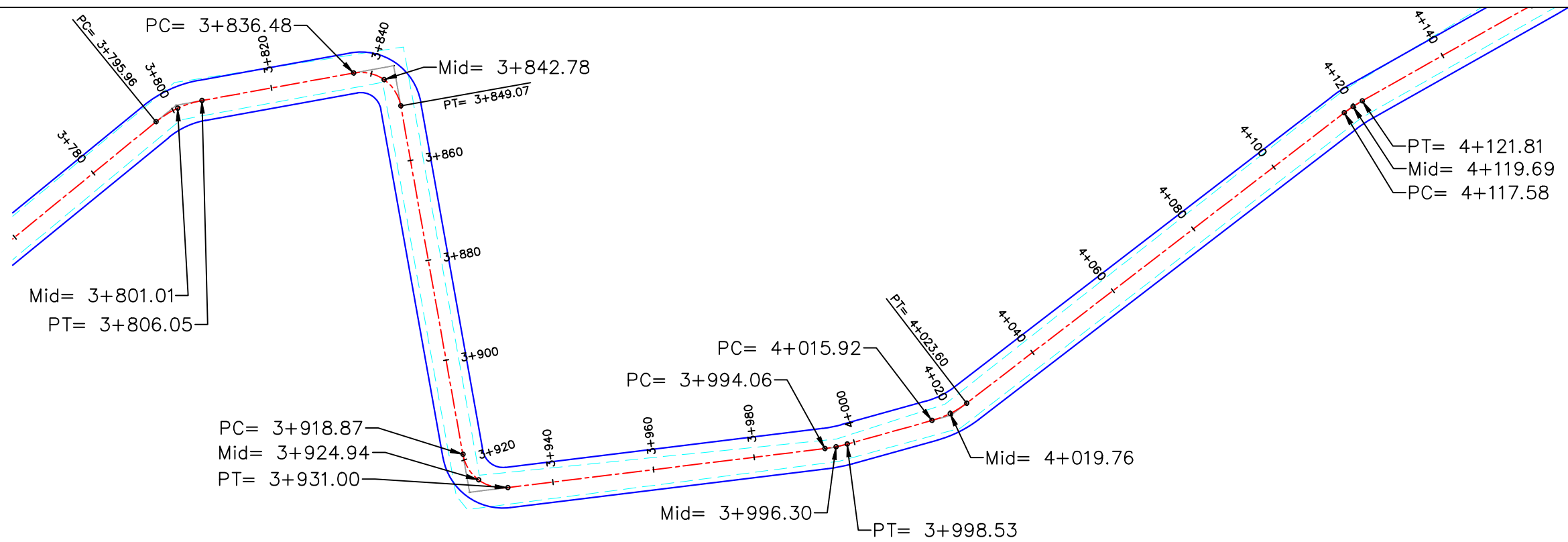
Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Wahidullah Mohebi
Associate Engineer

Scale 1:1000	Drawing Title Plan & Profile
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Drawing No JWN-004-C2-005	Sheet No P & P-12	Date May-2017
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STATIONS	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080
FINISHED ROAD LEVEL	289.71	289.87	290.04	290.12	290.17	290.23	290.24	290.17	290.01	289.82	289.62	289.50	289.45	289.39	289.34
ORIGINAL GROUND LEVEL	289.80	289.63	289.87	289.98	289.99	290.00	290.02	289.99	289.78	289.57	289.36	289.17	289.10	289.03	289.01
CUT & FILL	0.09	-0.24	-0.17	-0.14	-0.18	-0.22	-0.22	-0.17	-0.23	-0.24	-0.26	-0.33	-0.34	-0.36	-0.33
VERTICAL ALIGNMENT	G=0.99% L=27.60		K=47.91 L=34.80		G=0.26% L=42.72		K=48.39 L=59.75		G=-0.97% L=45.13		K=14.10 L=10.00		G=-0.26% L=140.00		
SUPERELEVATION	e=6.00% e=-6.00%		e=6.00% e=-6.00%		e=6.00% e=-6.00%		e=6.00% e=-6.00%		e=4.40% e=-4.40%		e=5.00% e=-5.00%		e=5.00% e=-5.00%		

Revision

Date	Description



Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

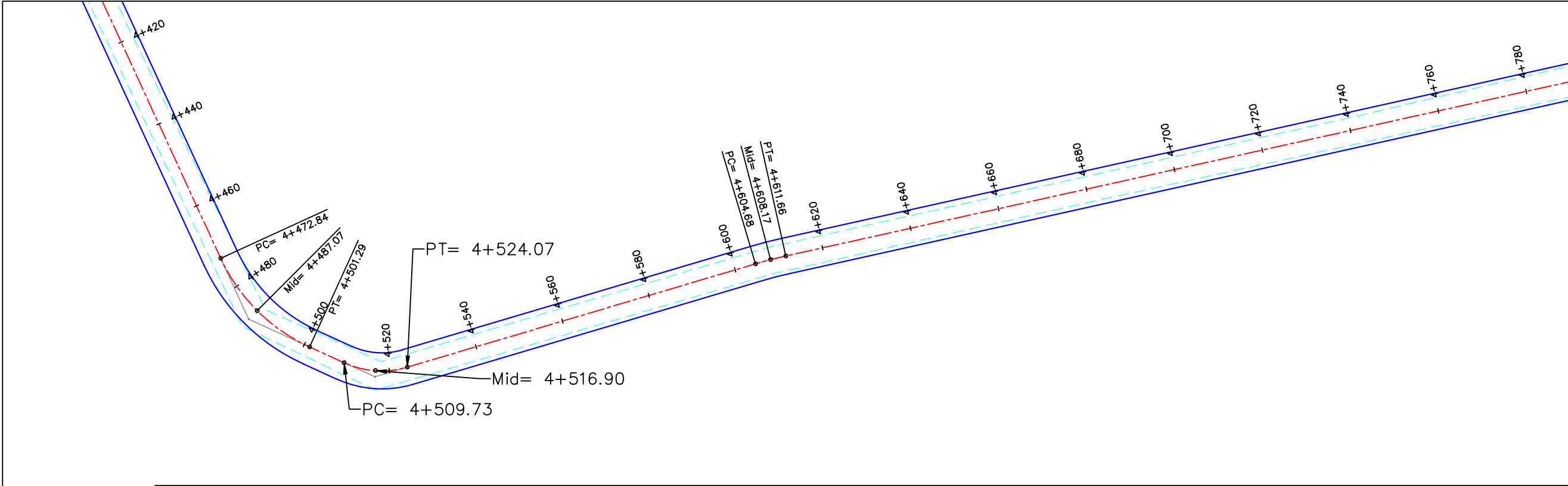
Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Wahidullah Mohebi
Associate Engineer

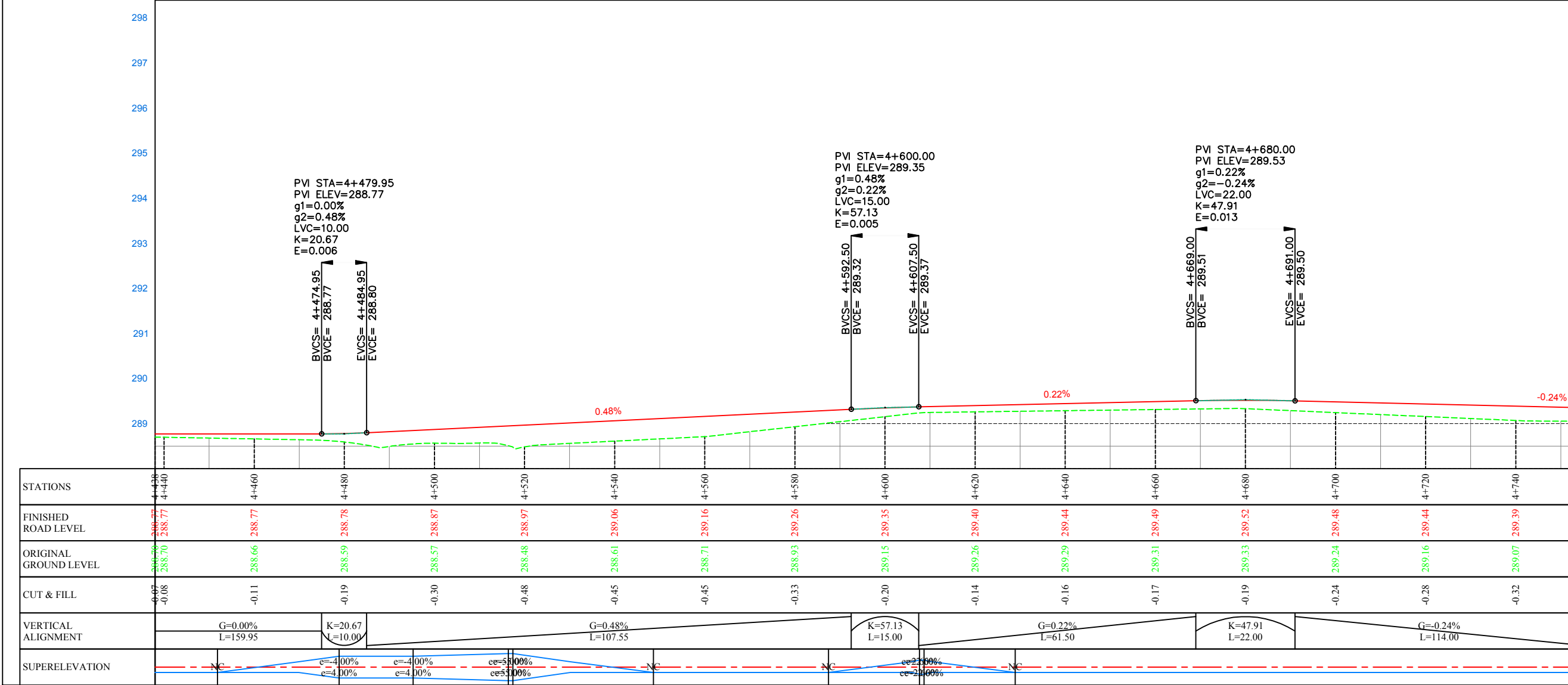
Scale 1:1000	Drawing Title Plan & Profile
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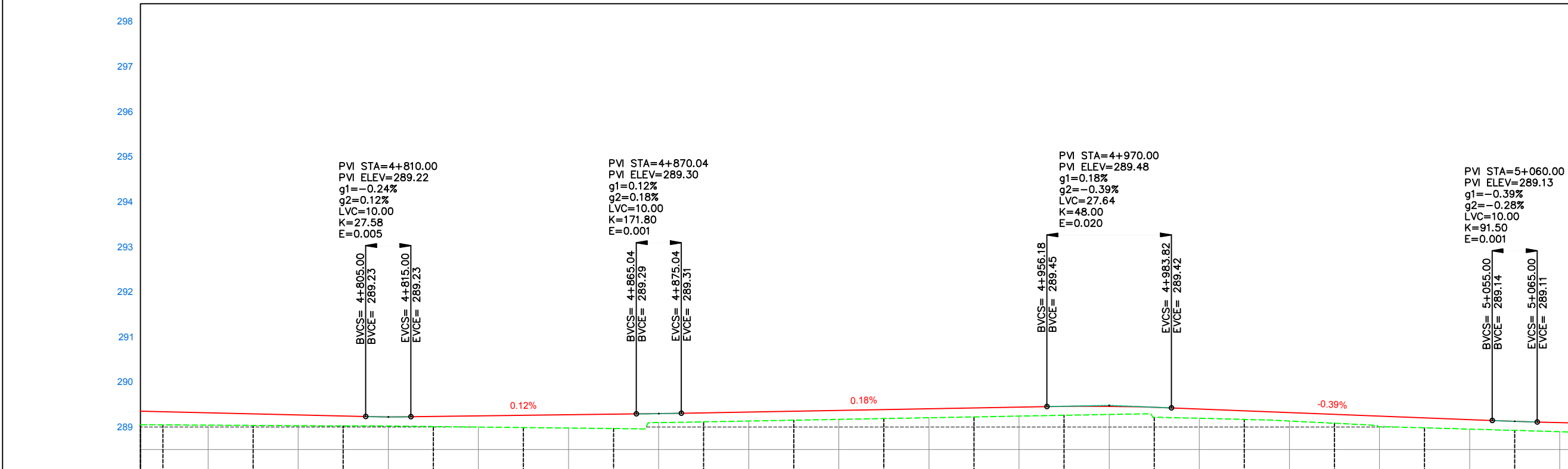
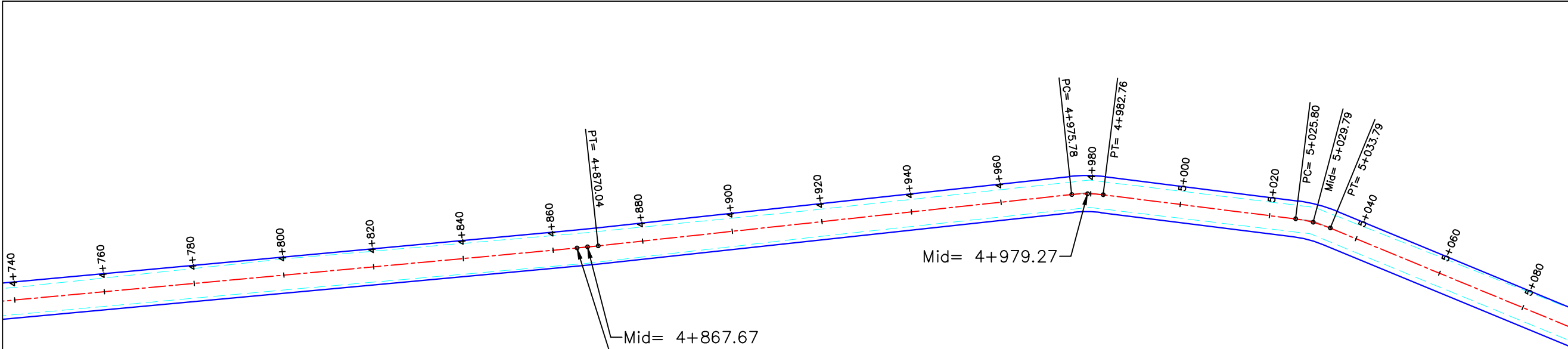
Drawing No JWN-004-C2-005	Sheet No P & P-13	Date May-2017
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Revision		
Date	Description	

UNOPS AFGHANISTAN		
Project Title: Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province		
RAIP-IV Mazar-e-Sharif		
Approved By: Shekhar Kumar Shrestha Acting Project Manager		
Checked By: Noorullah Hakimy Senior Engineer		
Drawn By: Wahidullah Mohebi Associate Engineer		
Scale 1:1000	Drawing Title Plan & Profile	
Drawing No JWN-004-C2-005	Sheet No P & P-15	Date May-2017





STATIONS	4+755	4+760	4+780	4+800	4+820	4+840	4+860	4+880	4+900	4+920	4+940	4+960	4+980	5+000	5+020	5+040	5+060
FINISHED ROAD LEVEL	289.35	289.34	289.29	289.25	289.23	289.26	289.28	289.31	289.35	289.39	289.42	289.46	289.44	289.36	289.28	289.20	289.13
ORIGINAL GROUND LEVEL	289.35	289.05	289.04	289.02	289.01	288.99	288.97	289.11	289.15	289.19	289.22	289.26	289.22	289.17	289.08	288.98	288.93
CUT & FILL	0.00	-0.29	-0.26	-0.22	-0.22	-0.27	-0.32	-0.20	-0.20	-0.20	-0.20	-0.20	-0.22	-0.19	-0.20	-0.22	-0.20
VERTICAL ALIGNMENT																	
SUPERELEVATION																	

Revision

Date	Description

Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

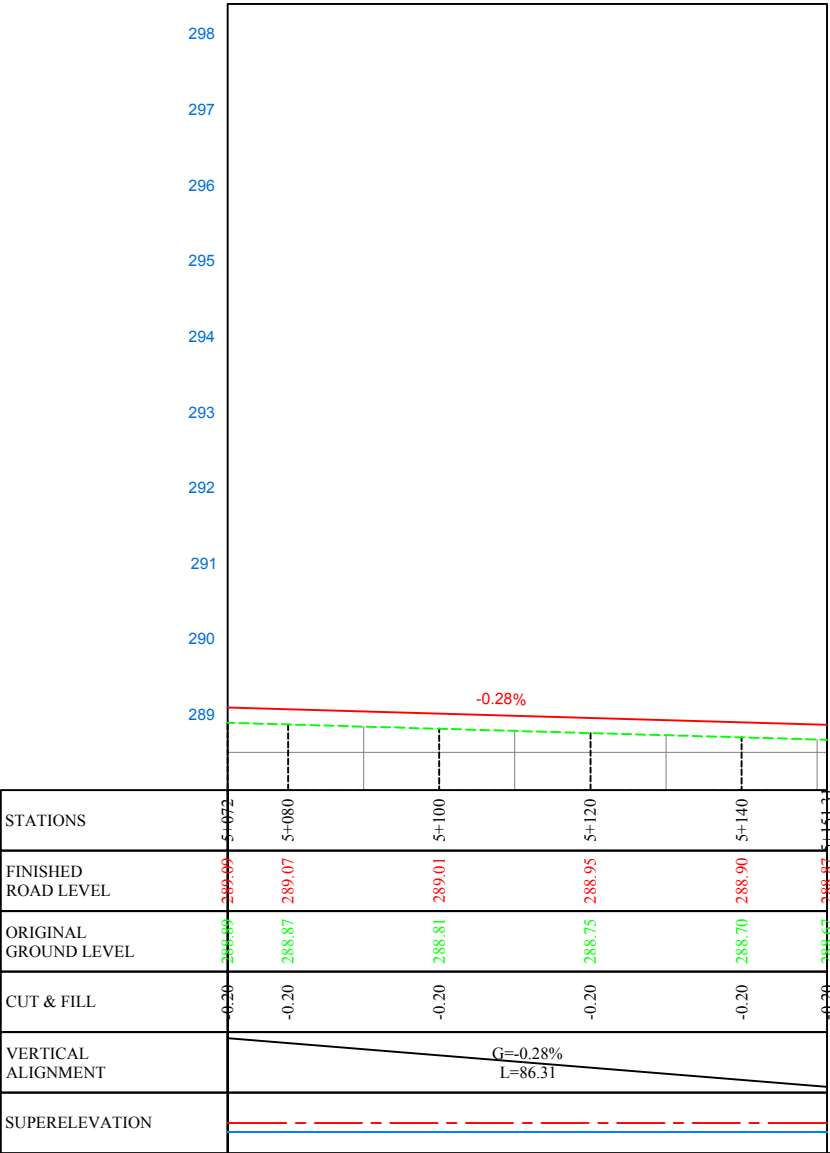
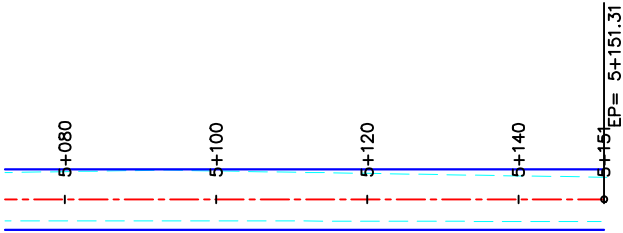
Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Wahidullah Mohebi
Associate Engineer

Scale 1:1000	Drawing Title Plan & Profile	
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Drawing No JWN-004-C2-005	Sheet No P & P-16	Date May-2017
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Revision

Date	Description



Project Title:
Rehabilitation and Construction to Bituminous Seal-Coat Standard of Khaniqa to Aqcha District Road CH: 3+700 - 8+850 Khaniqa and Aqcha Districts, Jawzjan Province

RAIP-IV
Mazar-e-Sharif

Approved By:
Shekhar Kumar Shrestha
Acting Project Manager

Checked By:
Noorullah Hakimy
Senior Engineer

Drawn By:
Wahidullah Mohebi
Associate Engineer

Scale 1:1000	Drawing Title Plan & Profile	
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Drawing No	Sheet No	Date
JWN-004-C2-005	P & P-17	May-2017