



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

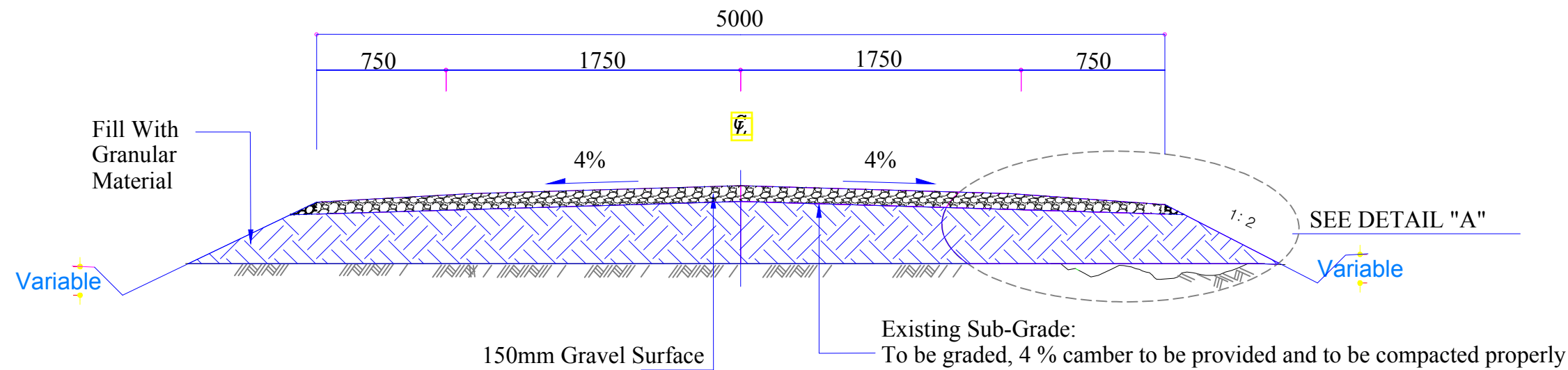
Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.

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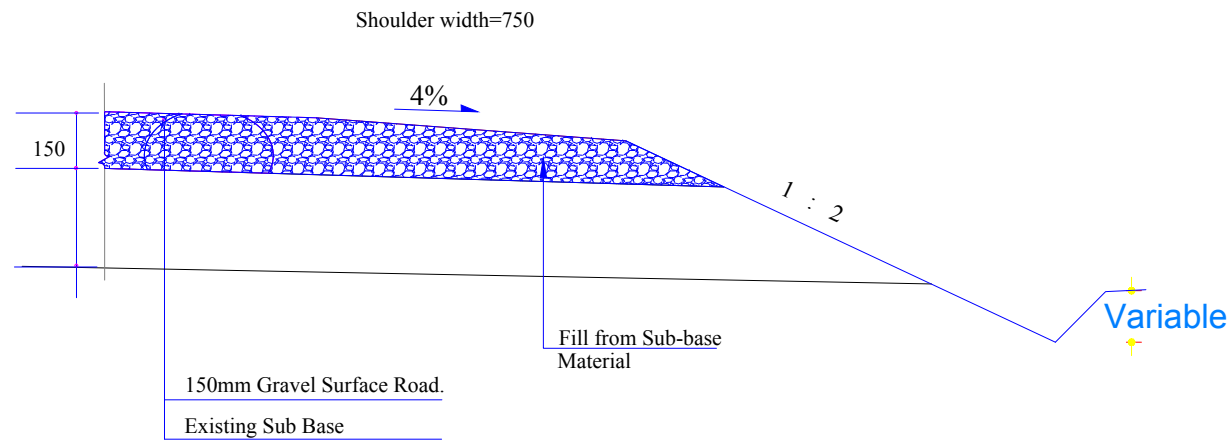
ITB NO.: Sida/RAIP IV/NTH/SRL/002/C2/002

FEB-2017

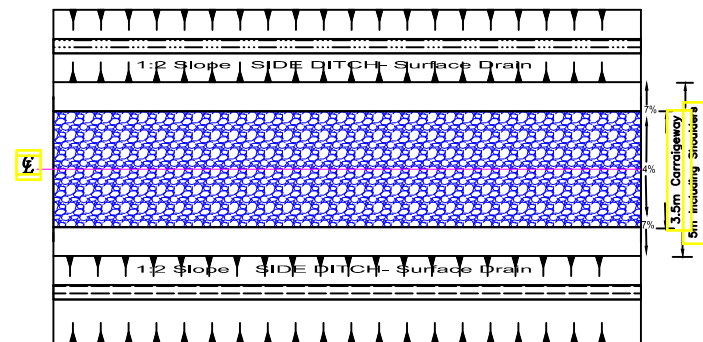
# TYPICAL TERTIARY GRAVEL ROAD CROSS SECTION



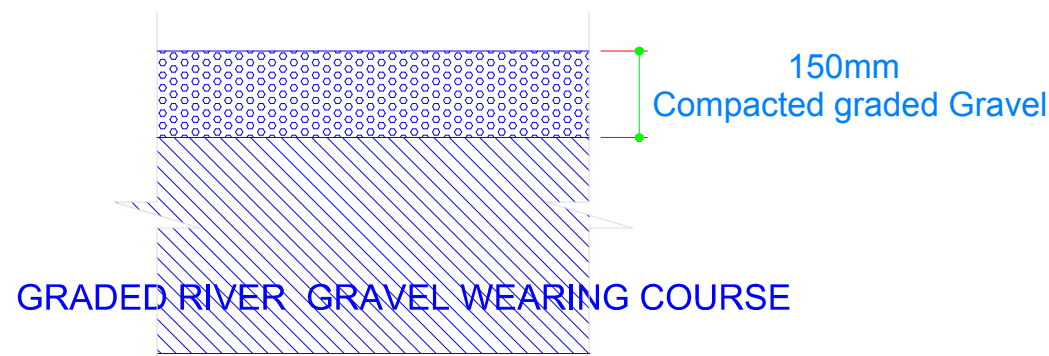
DETAIL "A"



SEGMENT PLAN OF TYPICAL GRADED RIVER GRAVEL ROAD



DETAIL "B"



## 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 of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.

## RAIP-IV

Mazar-e-Sharif

## Approved By:

Shekhar Kumar Shrestha  
Acting Project Manager

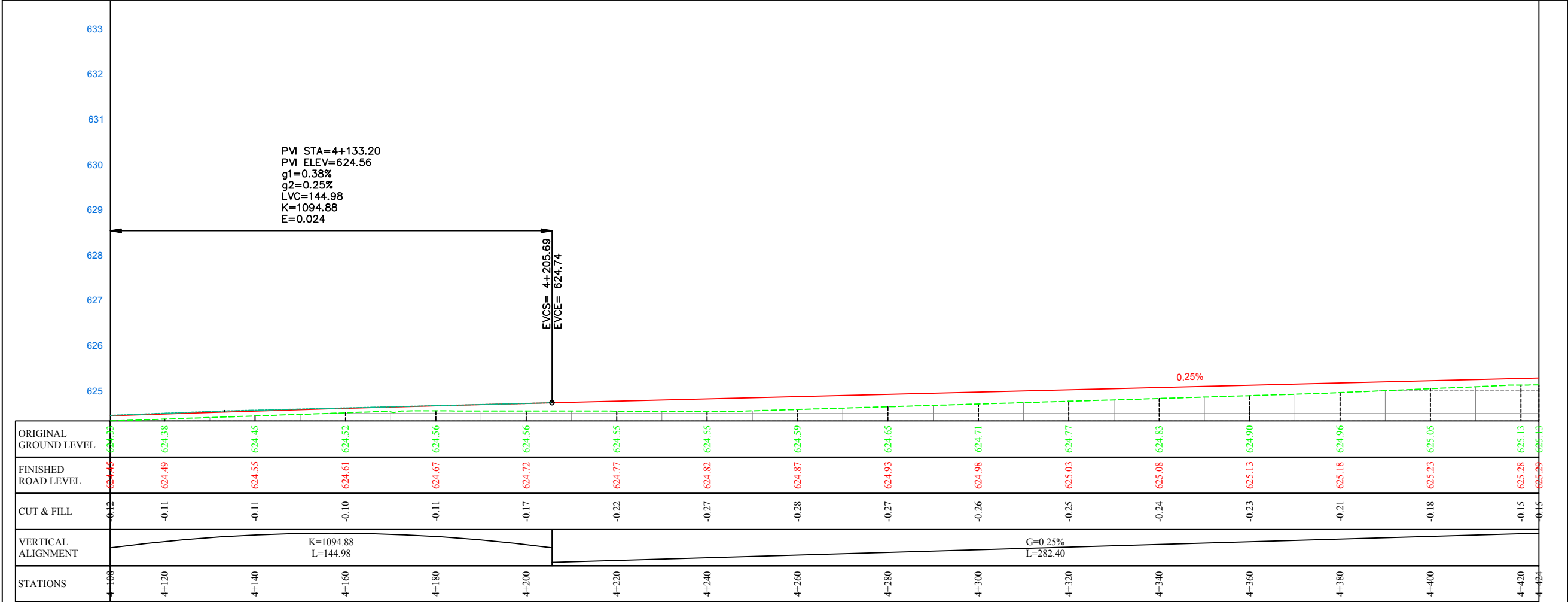
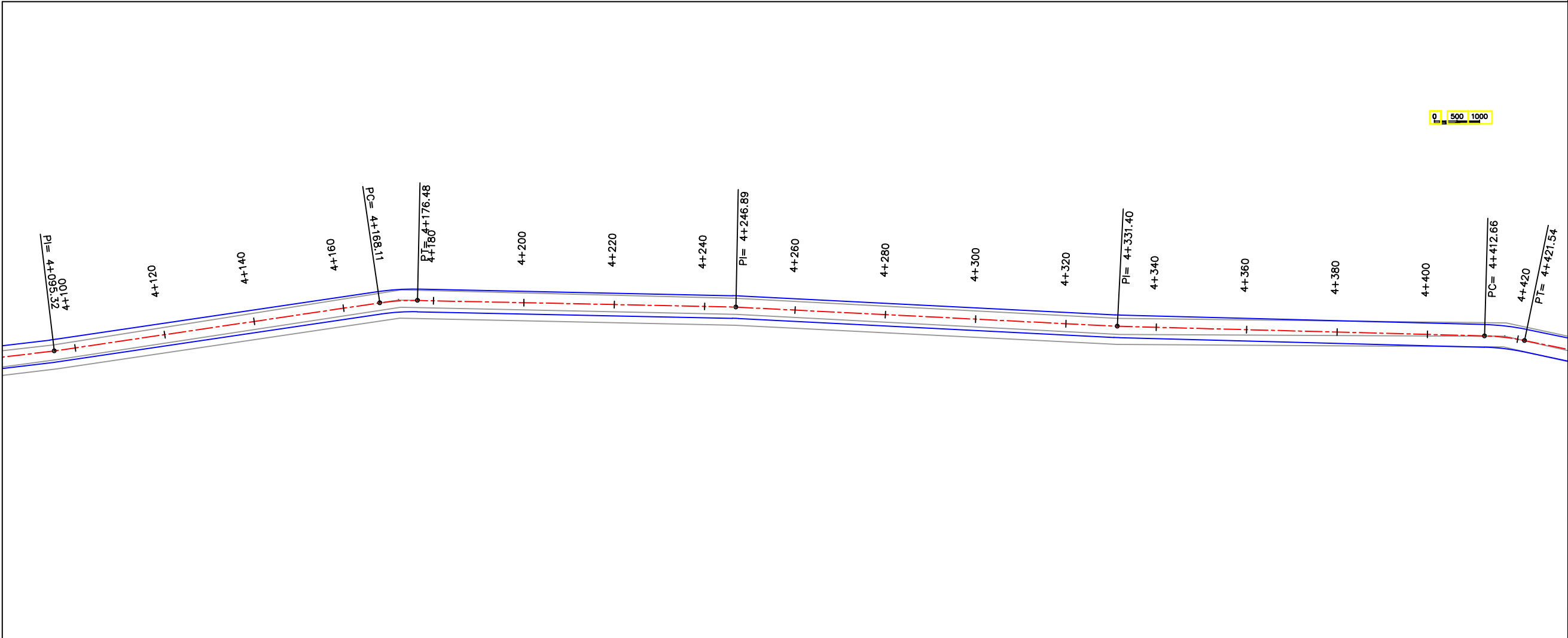
## Checked By:


Noorullah Hakimy  
Senior Engineer

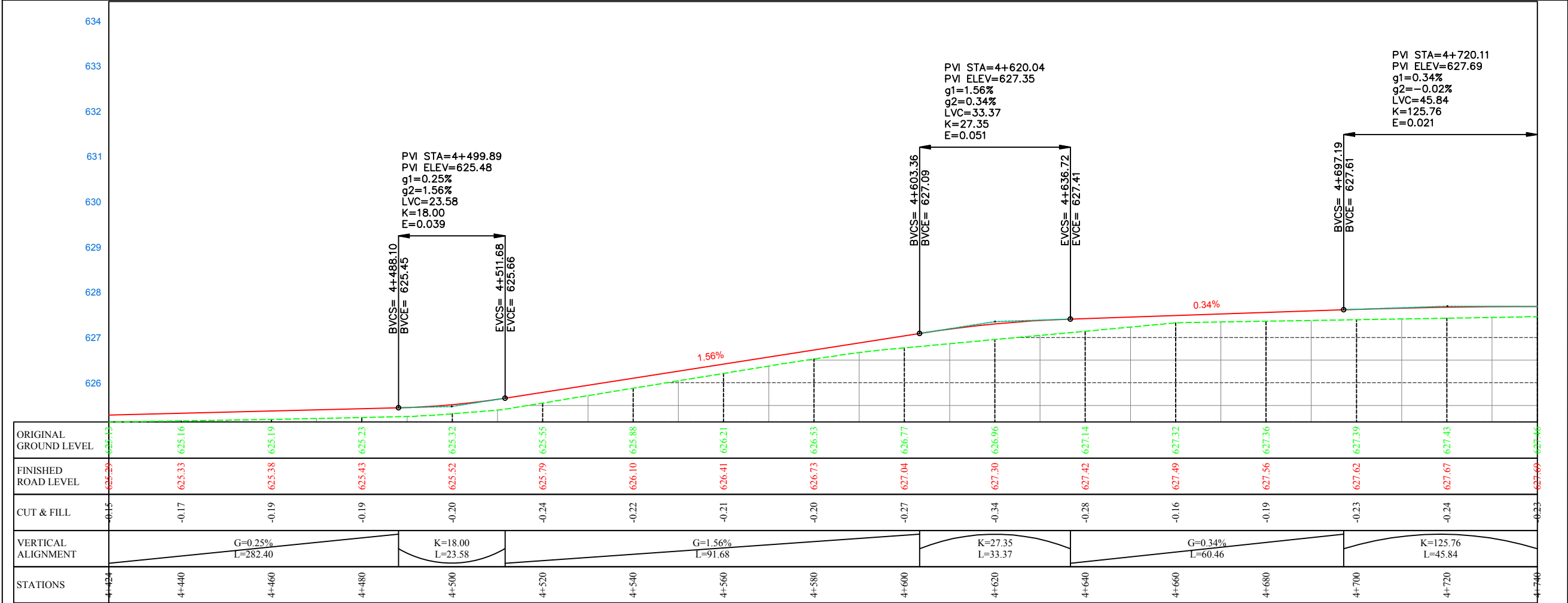
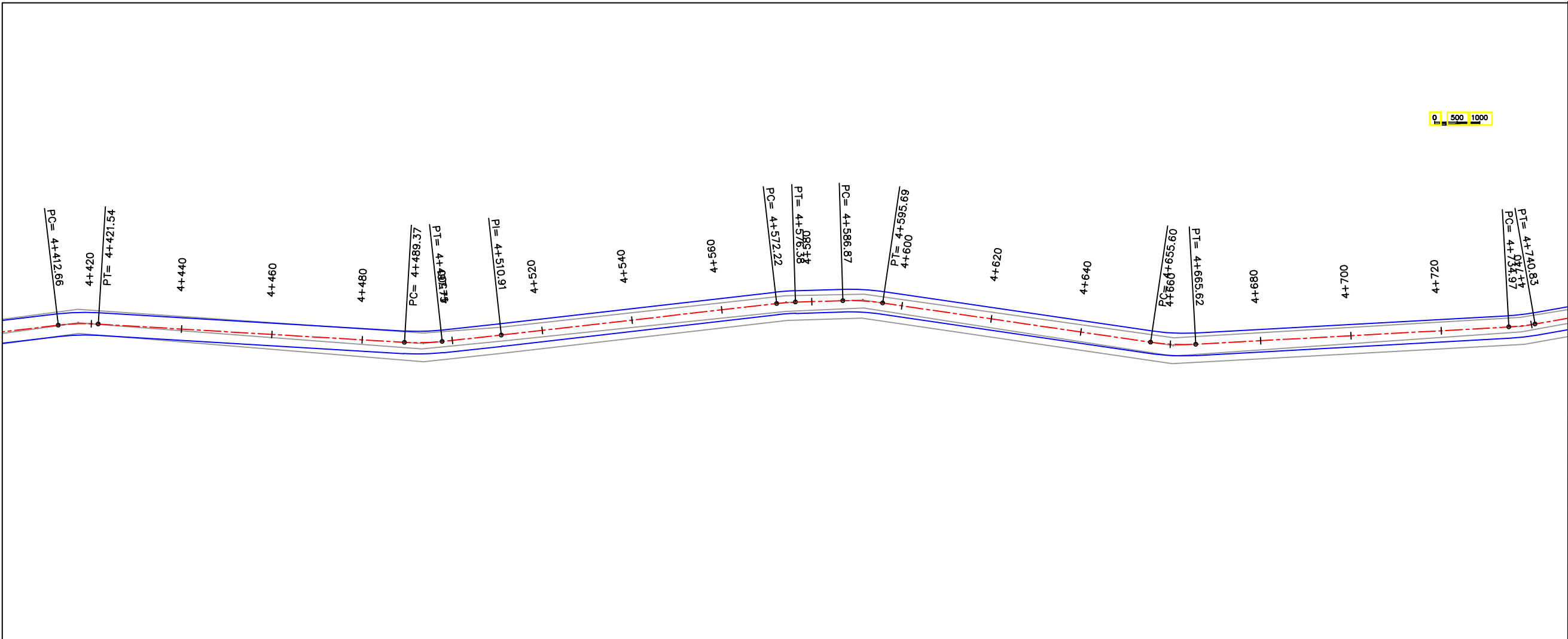
## Drawn By:


Mohammad Nasim Rasikh  
Associate Engineer

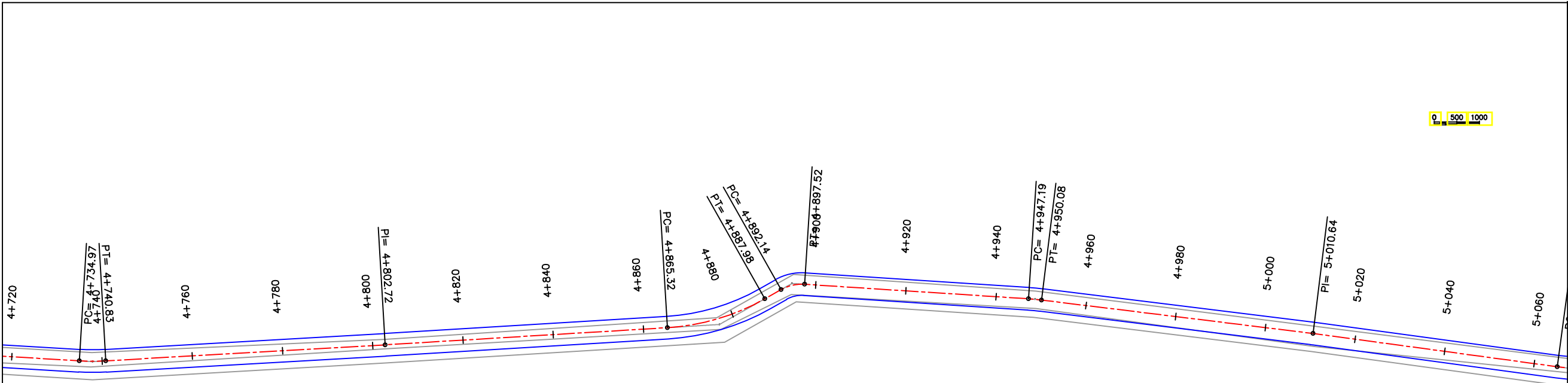
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Not in Scale	Typical Cross Section	
Drawing No	Sheet No	Date
SRL-002	2	February-2017




Revision		
Date	Description	
<div><b>UNOPS</b> AFGHANISTAN</div>		
<b>Project Title:</b> <i>Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.</i>		
<div><b>RAIP-IV</b> <div>Mazar—e—Sharif</div></div>		
<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <div>14</div>	<b>Date</b> <i>February-2017</i>

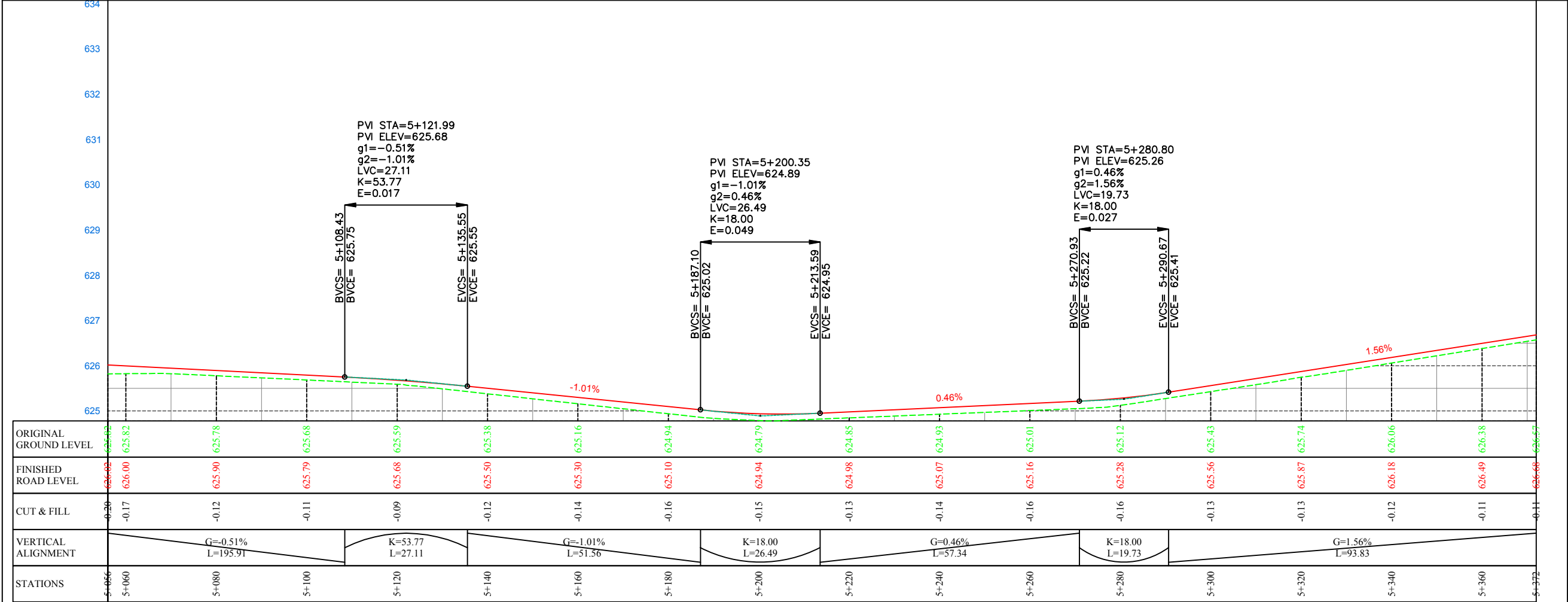
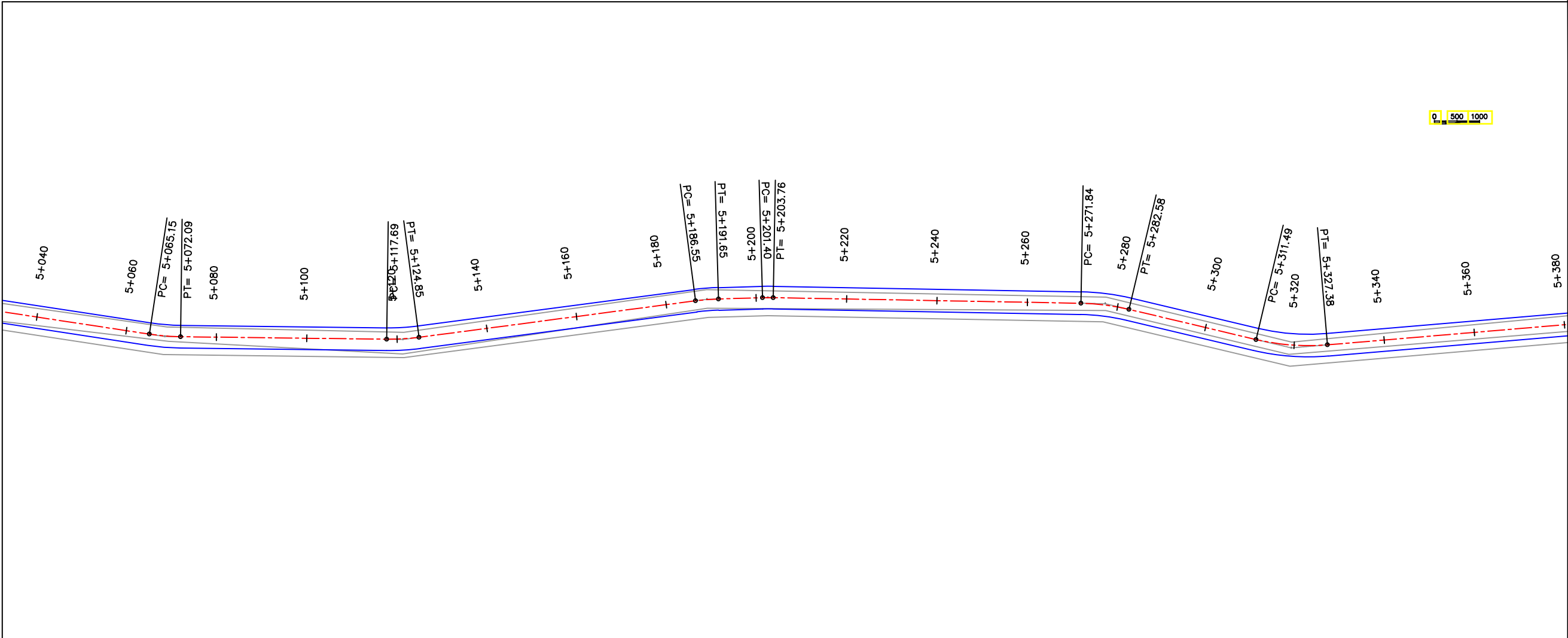



Revision		
Date	Description	
<div> <b>UNOPS</b> AFGHANISTAN</div>		
<b>Project Title:</b> <i>Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.</i>		
<b>RAIP-IV</b> <b>Mazar—e—Sharif</b>		
<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <b>15</b>	<b>Date</b> <i>February-2017</i>

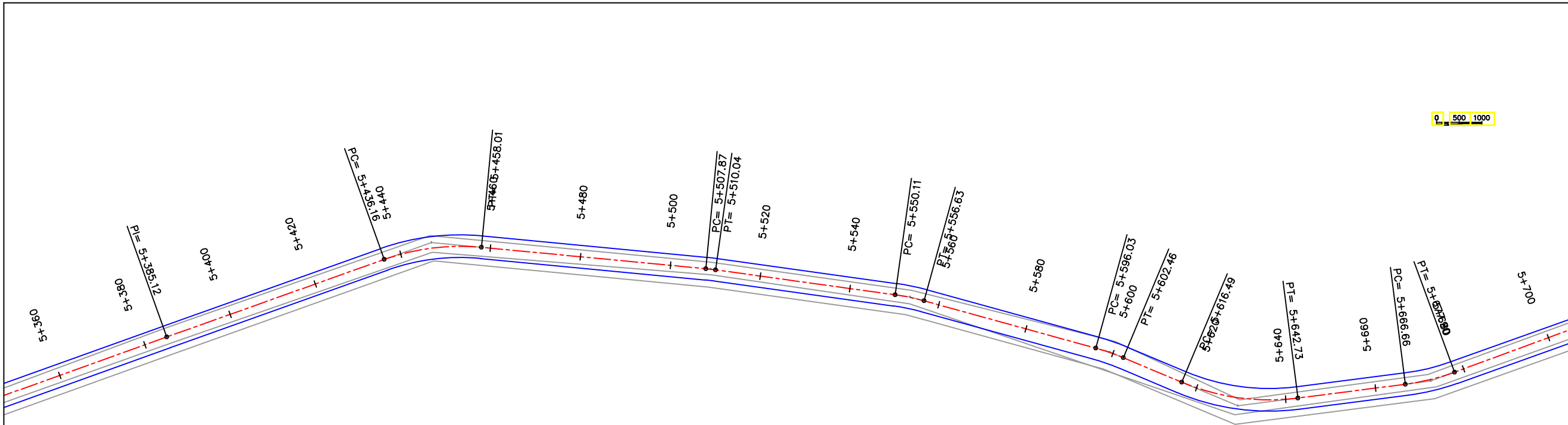


ORIGINAL GROUND LEVEL	627.66	627.47	627.49	627.50	627.47	627.44	627.40	626.98	626.61	626.43	626.24	626.09	625.96	625.84	625.75	625.80	625.82
FINISHED ROAD LEVEL	627.66	627.68	627.68	627.67	627.67	627.66	627.66	627.39	626.88	626.71	626.61	626.50	626.40	626.30	626.20	626.10	626.02
CUT & FILL	0.00	-0.21	-0.19	-0.17	-0.20	-0.23	-0.26	-0.41	-0.27	-0.28	-0.37	-0.42	-0.44	-0.46	-0.41	-0.29	0.20
VERTICAL ALIGNMENT	K=125.76 L=45.84 G=-0.02% L=117.55 K=7.24 L=21.10 G=-2.94% L=57.74 K=10.32 L=25.10 G=-0.51% L=195.91																
STATIONS	4+740	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

Revision		
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<div><b>UNOPS</b> AFGHANISTAN</div>		
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<b>Approved By:</b> <b>Shekhar Kumar Shrestha</b> Acting Project Manager		
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<b>Drawn By:</b> <b>Mohammad Nasim Rasikh</b> Associate Engineer		
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<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <div>16</div>	<b>Date</b> February-2017



Revision		
Date	Description	
<div><b>UNOPS</b> AFGHANISTAN</div>		
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<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <b>17</b>	<b>Date</b> <i>February-2017</i>



## Revision

Date	Description



**Project Title:**  
*Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.*

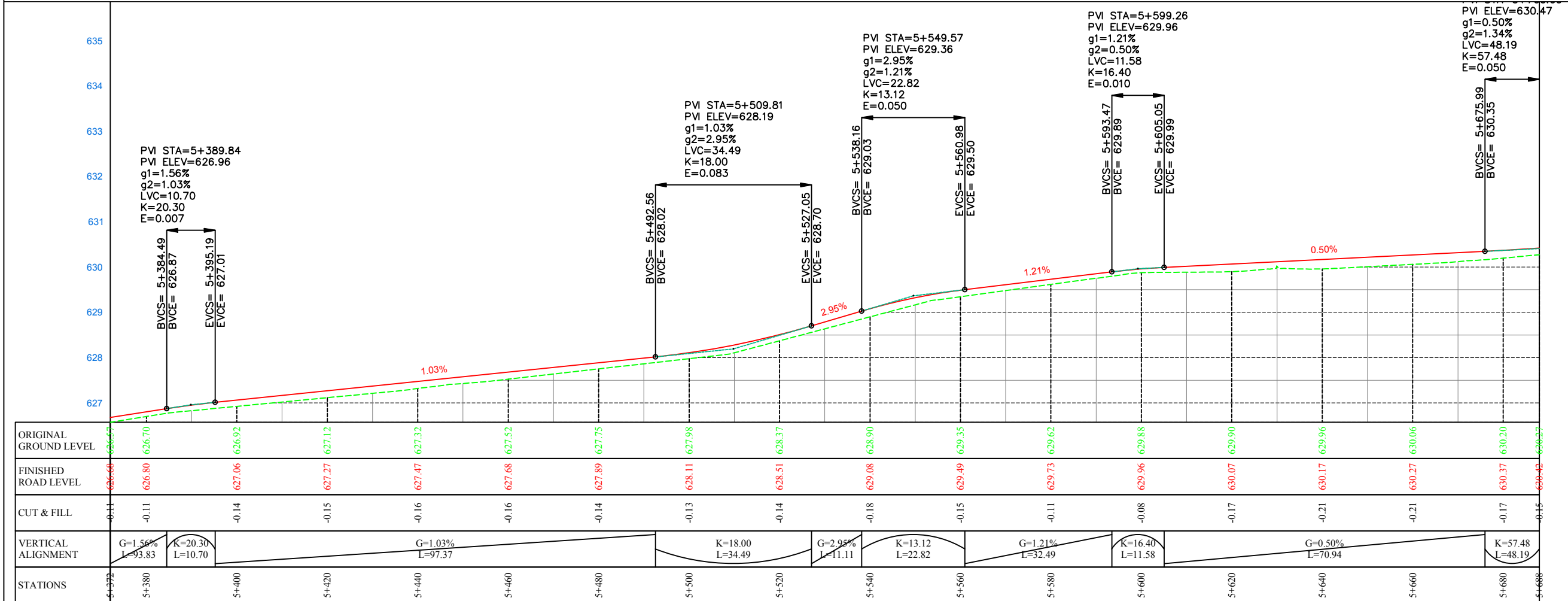
**RAIP-IV**  
**Mazar-e-Sharif**

**Approved By:**  
**Shekhar Kumar Shrestha**  
Acting Project Manager

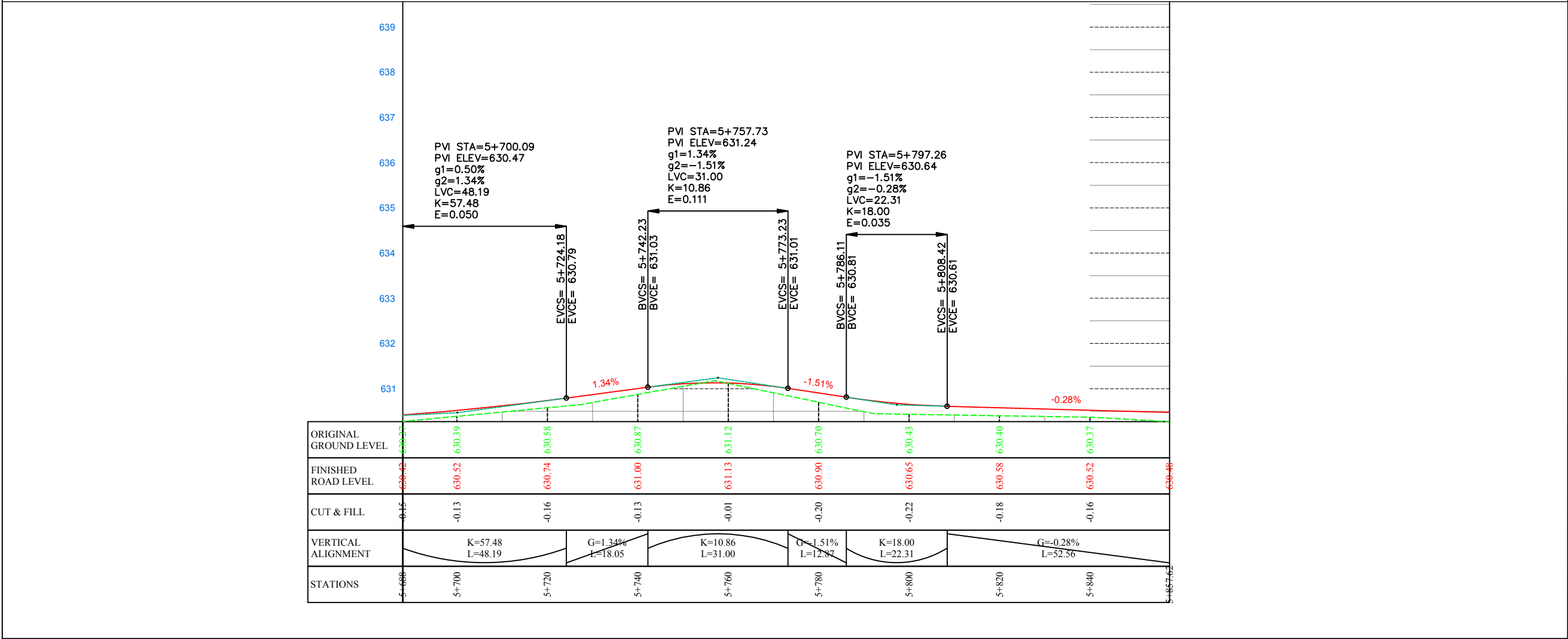
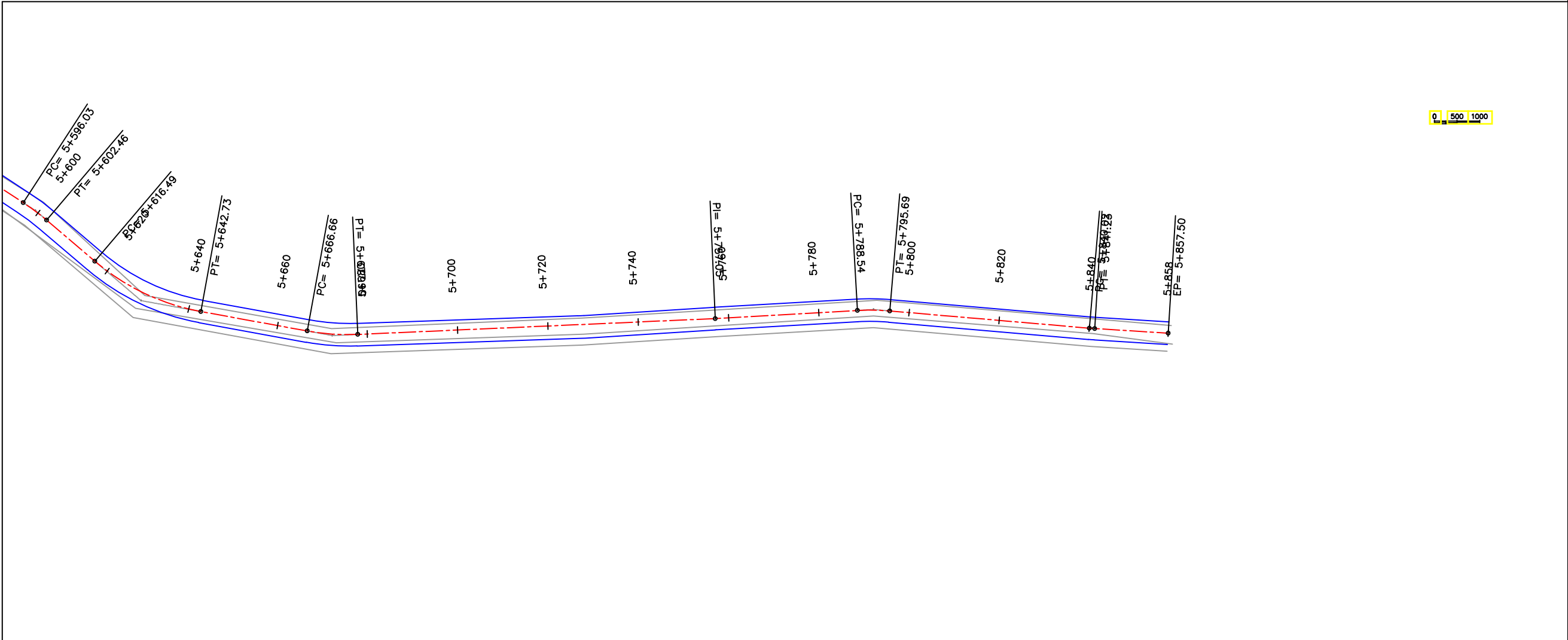
**Checked By:**  
**Noorullah Hakimy**  
Senior Engineer


**Drawn By:**  
**Mohammad Nasim Rasikh**  
Associate Engineer

<i>Scale</i> 1:1000	<i>Drawing Title</i> Plan & Profile	
<i>Drawing No</i> Sari Pul-02	<i>Sheet No</i> 18	<i>Date</i> February-2017

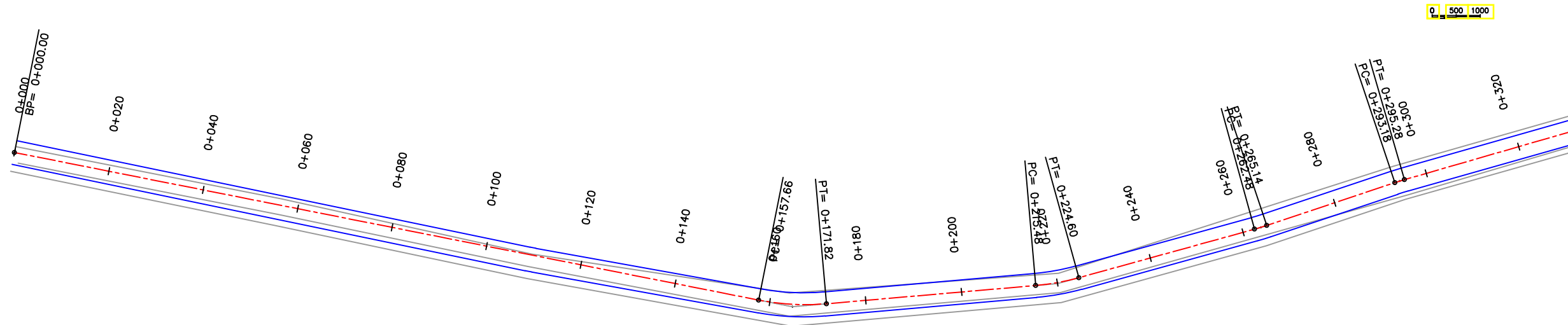






Revision		
Date	Description	
<div><b>UNOPS</b> AFGHANISTAN</div>		
<b>Project Title:</b> <i>Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.</i>		
<div><b>RAIP-IV</b> <b>Mazar—e—Sharif</b></div>		
<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> 19	<b>Date</b> February-2017





## Revision

Date	Description



## Project Title:

Rehabilitation and Construction of  
Tertiary Gravel Road from Sari  
pul Center to Shurkhak  
Village(CH: 0+000~5+900 km),  
Saripul District, Saripul Province.

**RAIP-IV**  
**Mazar-e-Sharif**

Approved By:

Shekhar Kumar Shrestha  
Acting Project Manager

Checked By:

Noorullah Hakimy  
Senior Engineer

Drawn By:

Mohammad Nasim Rasikh  
Associate Engineer

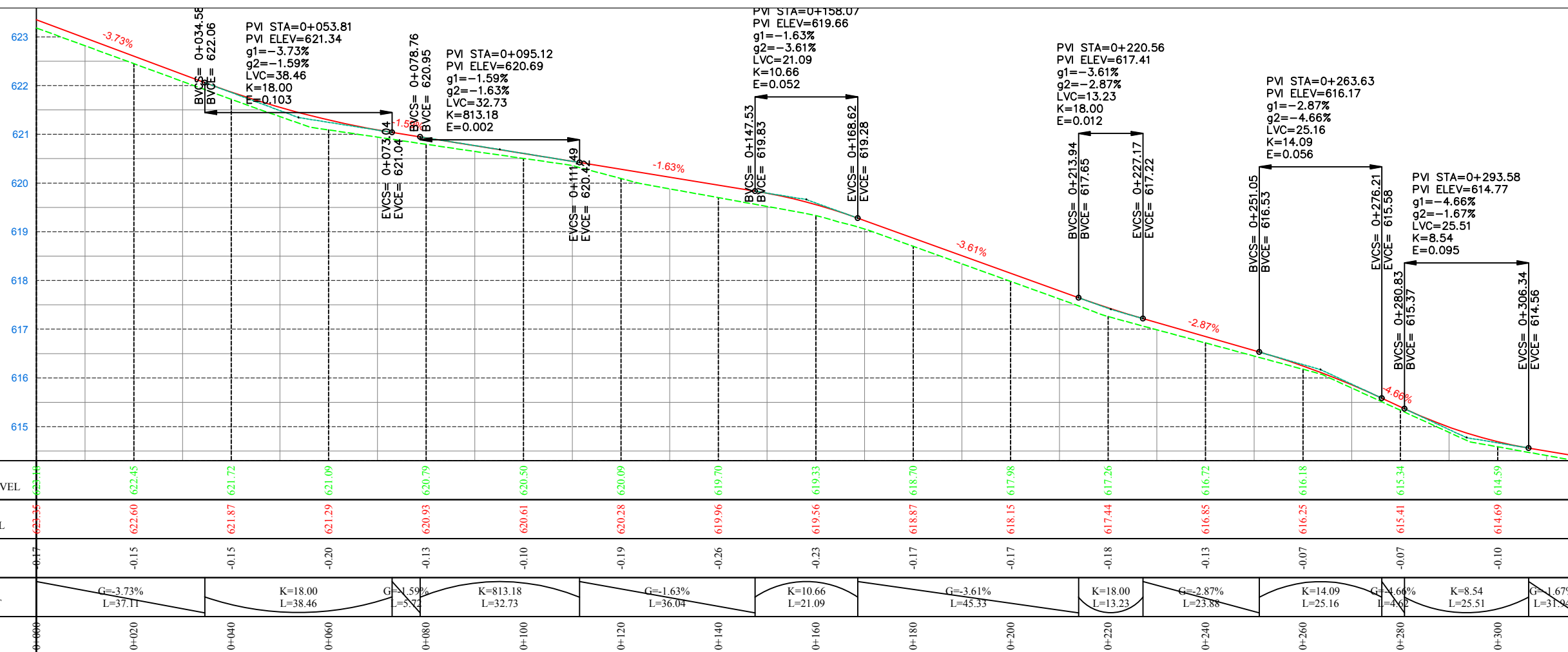
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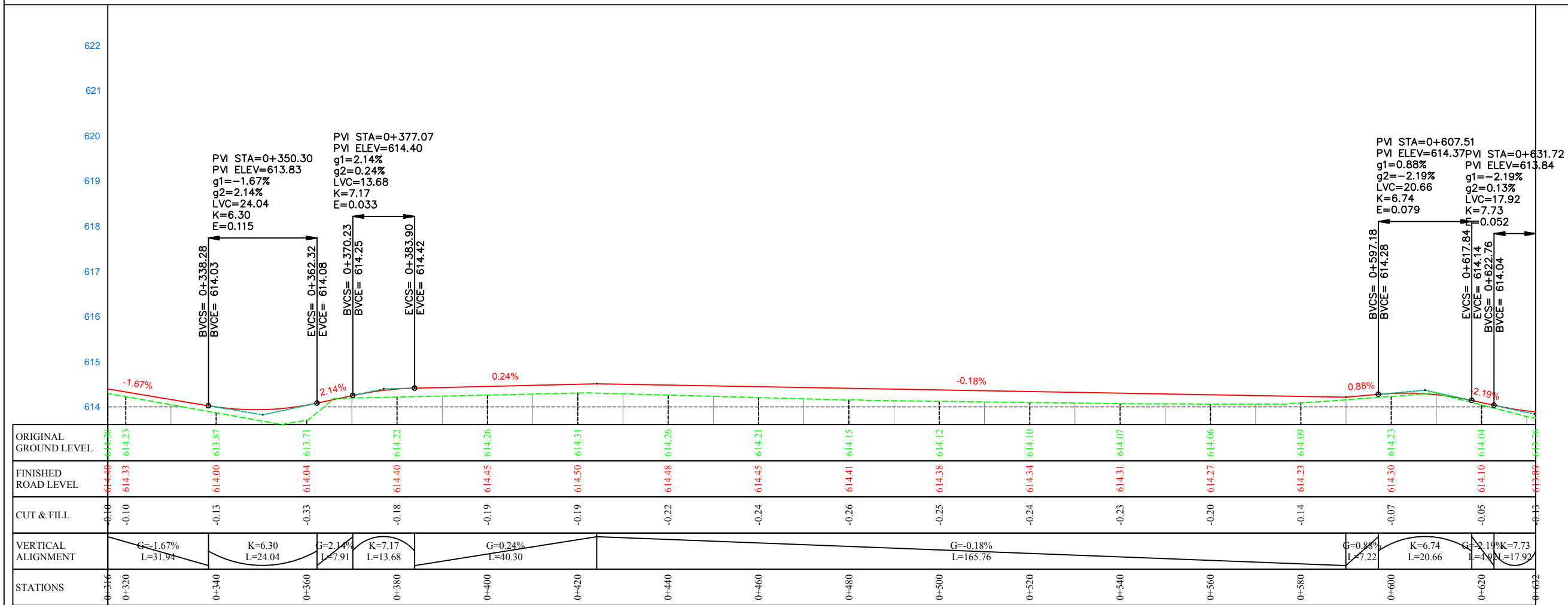
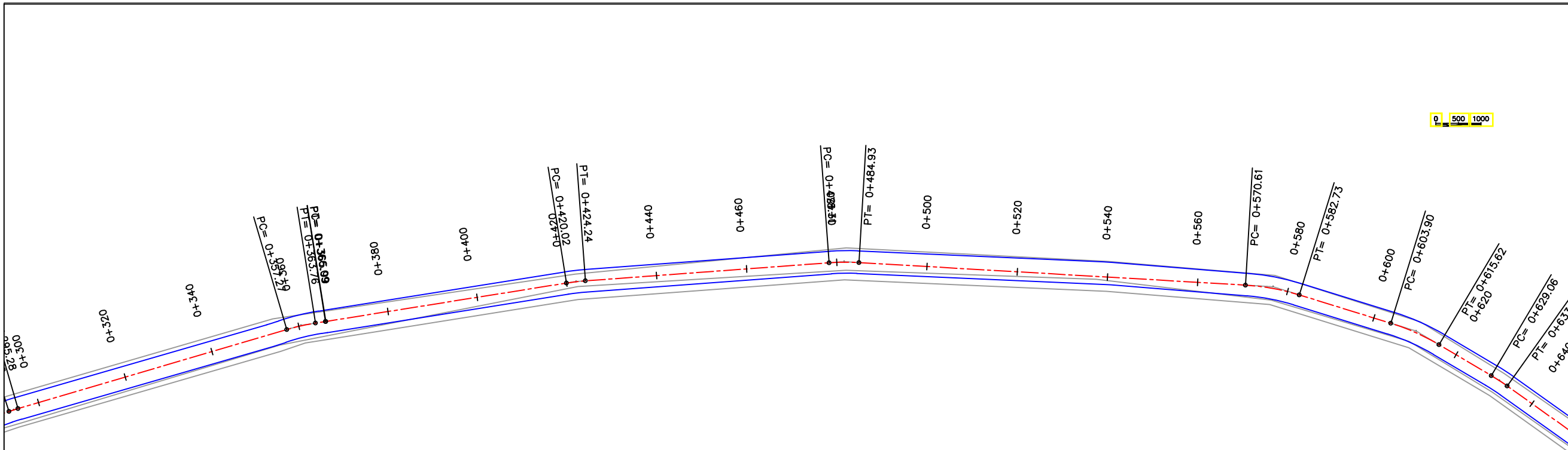
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Plan & Profile

Drawing No  
Sari Pul-02

Sheet No  
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Date  
February-2017





Revision	
Date	Description



Project Title:  
Rehabilitation and Construction of  
Tertiary Gravel Road from Sari  
pul Center to Shurkhak  
Village(CH: 0+000~5+900 km),  
Saripul District, Saripul Province.

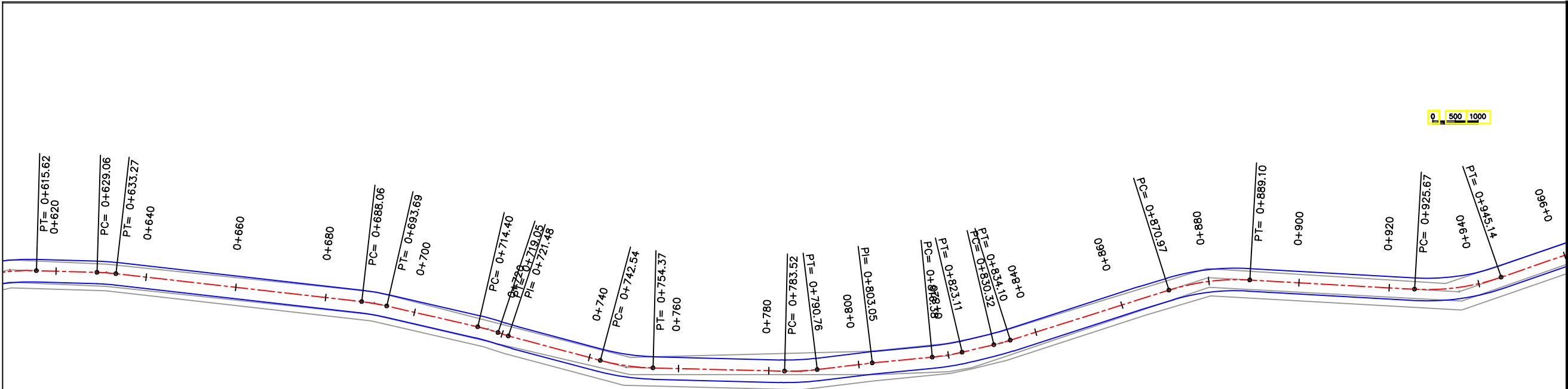
RAIP-IV  
Mazar-e-Sharif

Approved By:  
Shekhar Kumar Shrestha  
Acting Project Manager

Checked By:  
Noorullah Hakimy  
Senior Engineer

Drawn By:  
Mohammad Nasim Rasikh  
Associate Engineer

Scale	Drawing Title	
1:1000	Plan & Profile	
Drawing No	Sheet No	Date
Sari Pul-02	02	February-2017



Revision	
Date	Description



**Project Title:**  
*Rehabilitation and Construction of  
Tertiary Gravel Road from Sari  
pul Center to Shurkhak  
Village(CH: 0+000~5+900 km),  
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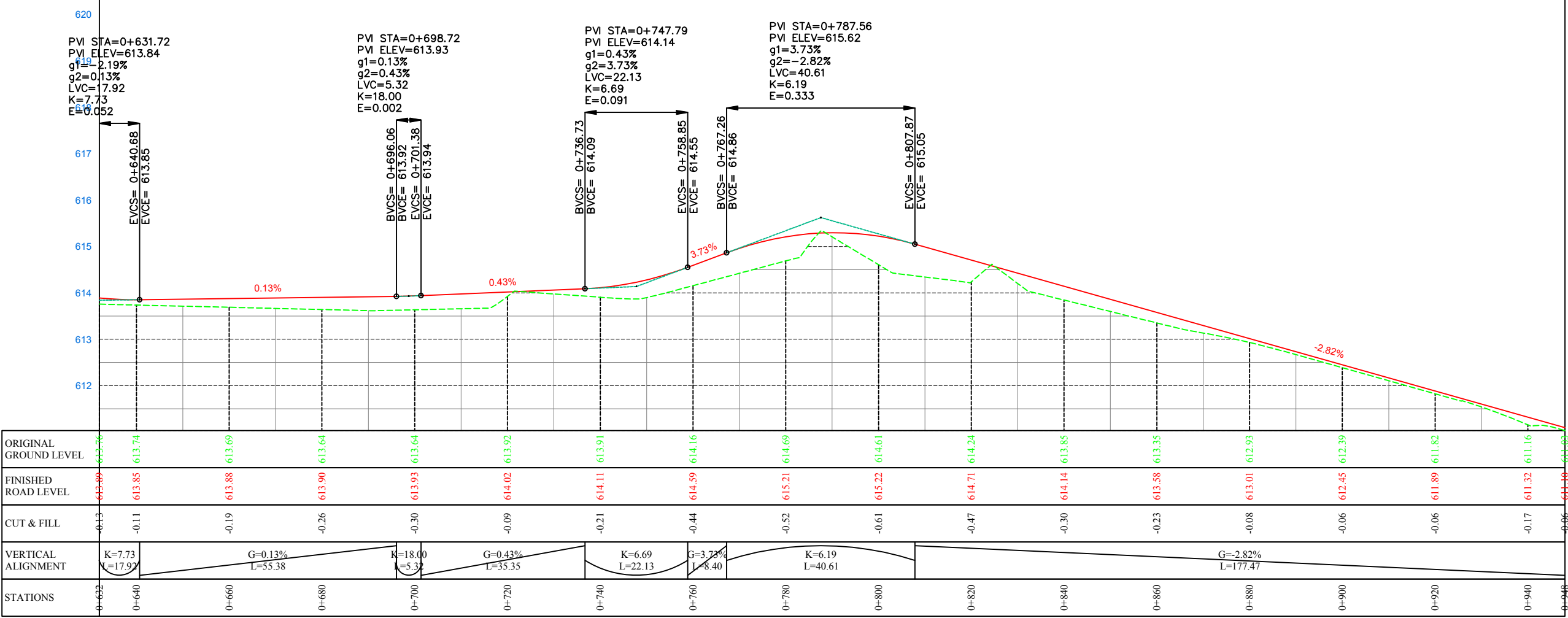
**RAIP-IV**  
**Mazar-e-Sharif**

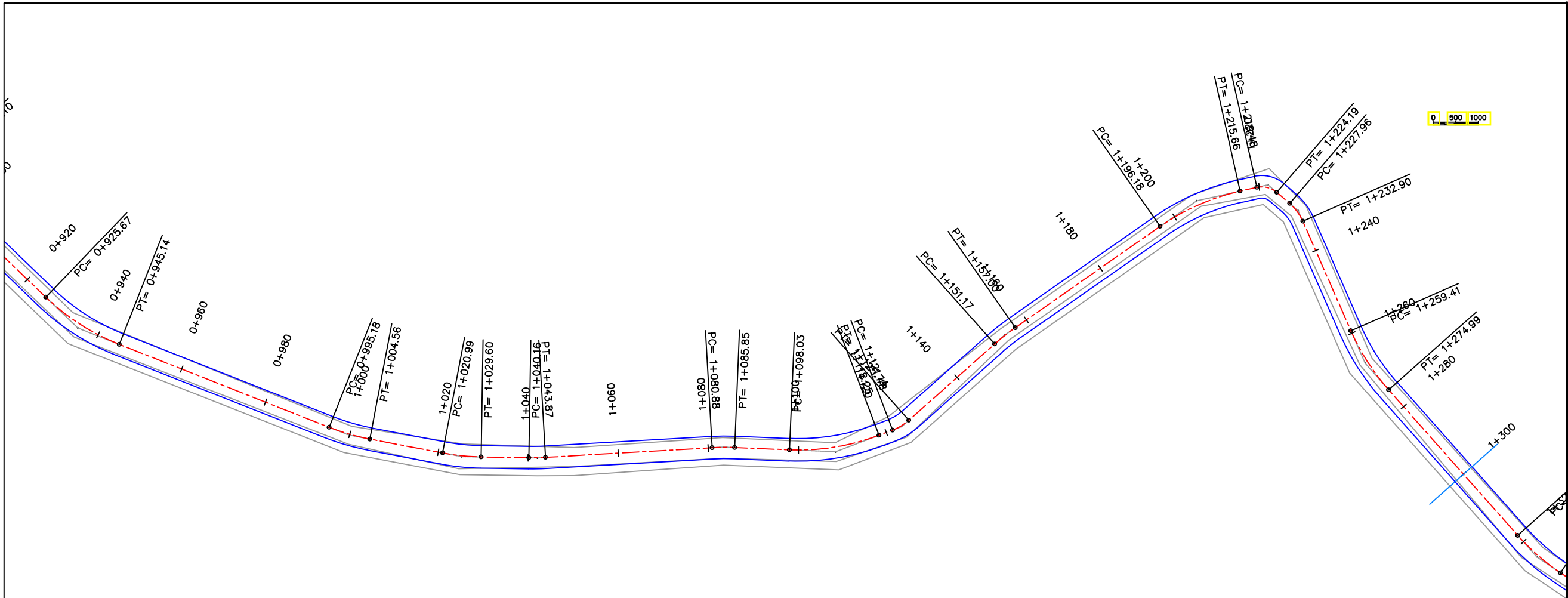
**Approved By:**  
**Shekhar Kumar Shrestha**  
Acting Project Manager

**Checked By:**  
**Noorullah Hakimy**  
Senior Engineer

**Drawn By:**  
**Mohammad Nasim Rasikh**  
Associate Engineer

Scale	Drawing Title	
1:1000	Plan & Profile	
Drawing No	Sheet No	Date
Sari Pul-02	03	February-2017





## Revision

Date	Description



**Project Title:**  
Rehabilitation & Construction of  
Surkhak Tertiary Road, Ch:  
00+000 to 05+900, Saripul  
District, Sari Pul Province

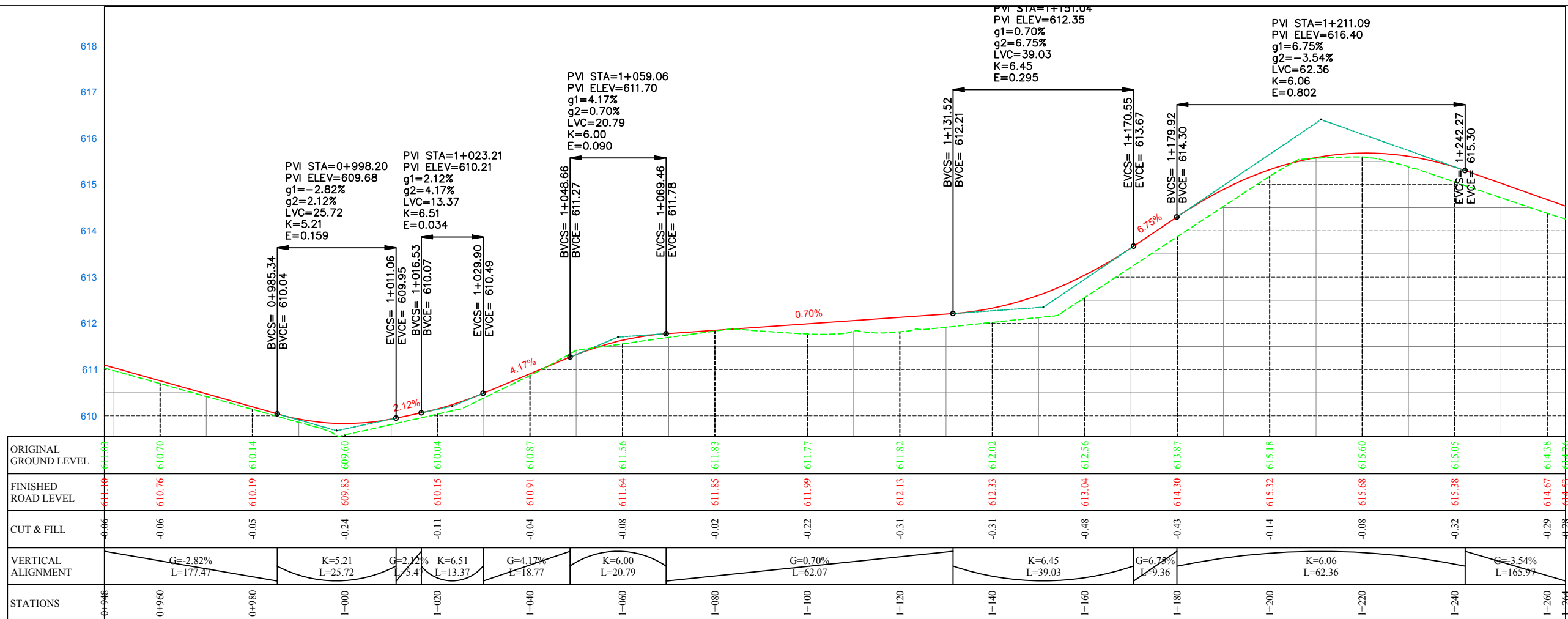
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**Mazar-e-Sharif**

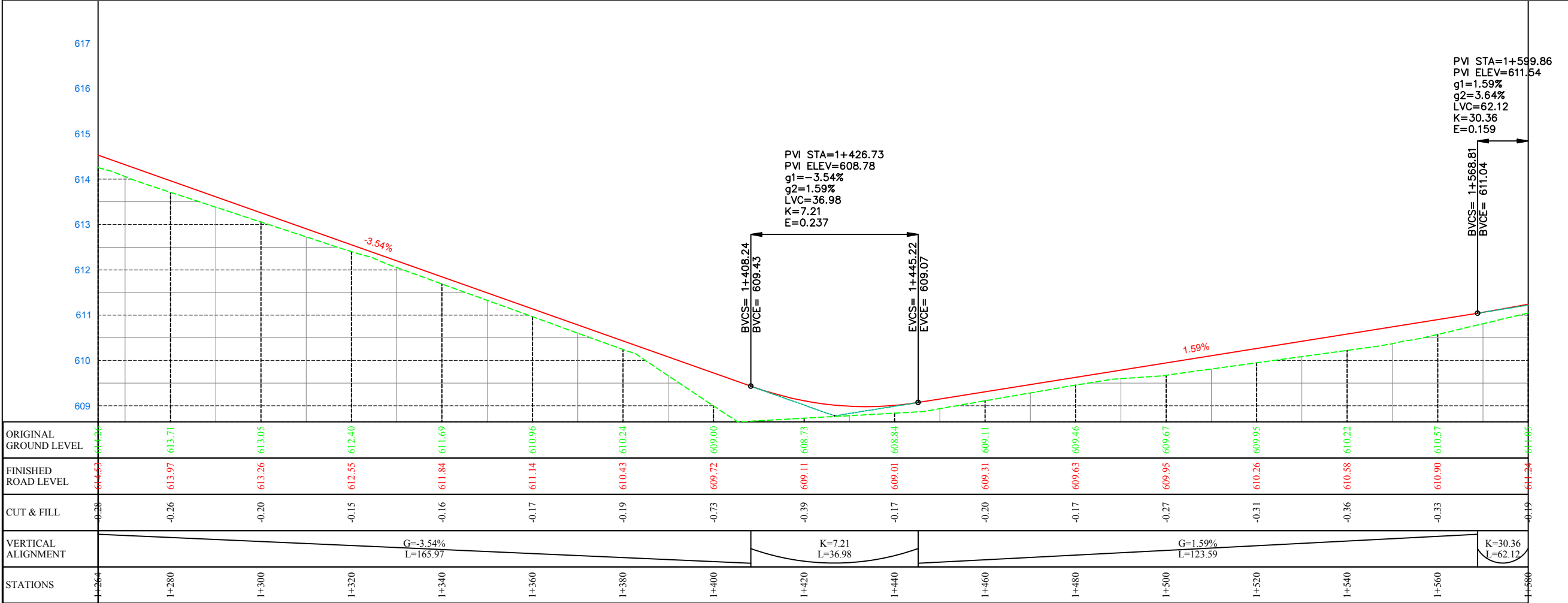
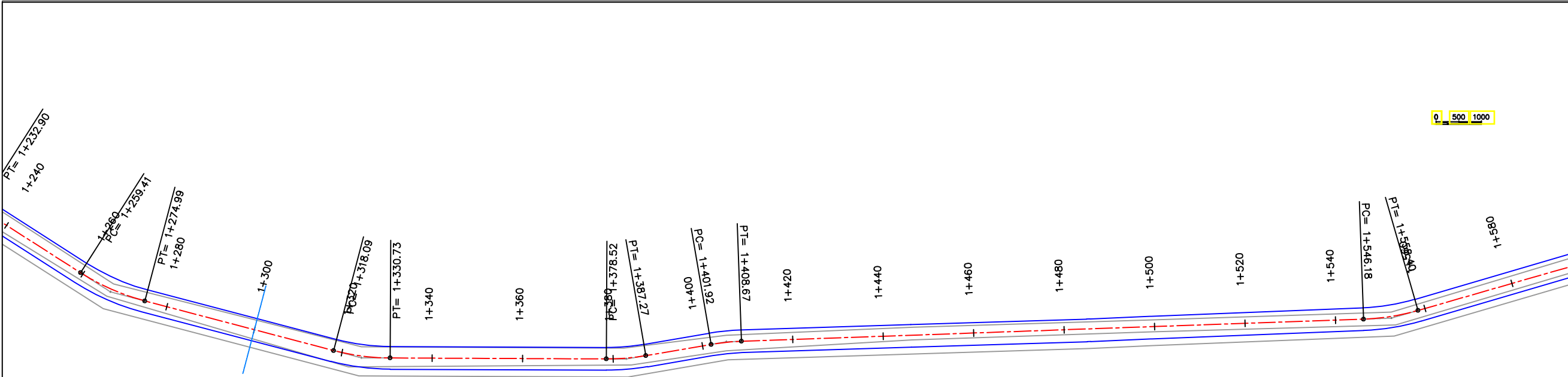
**Approved By:**  
Shekhar Kumar Shrestha  
Acting Project Manager


**Checked By:**  
Noorullah Hakimy  
Senior Engineer

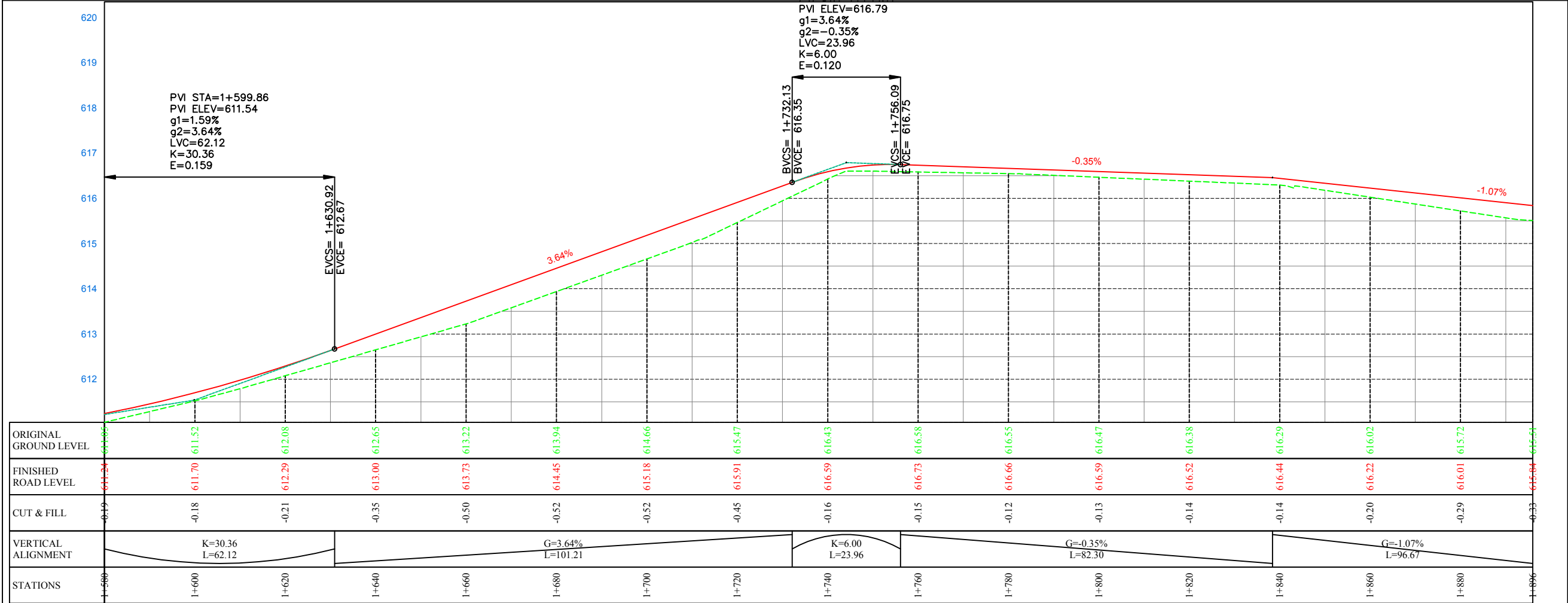
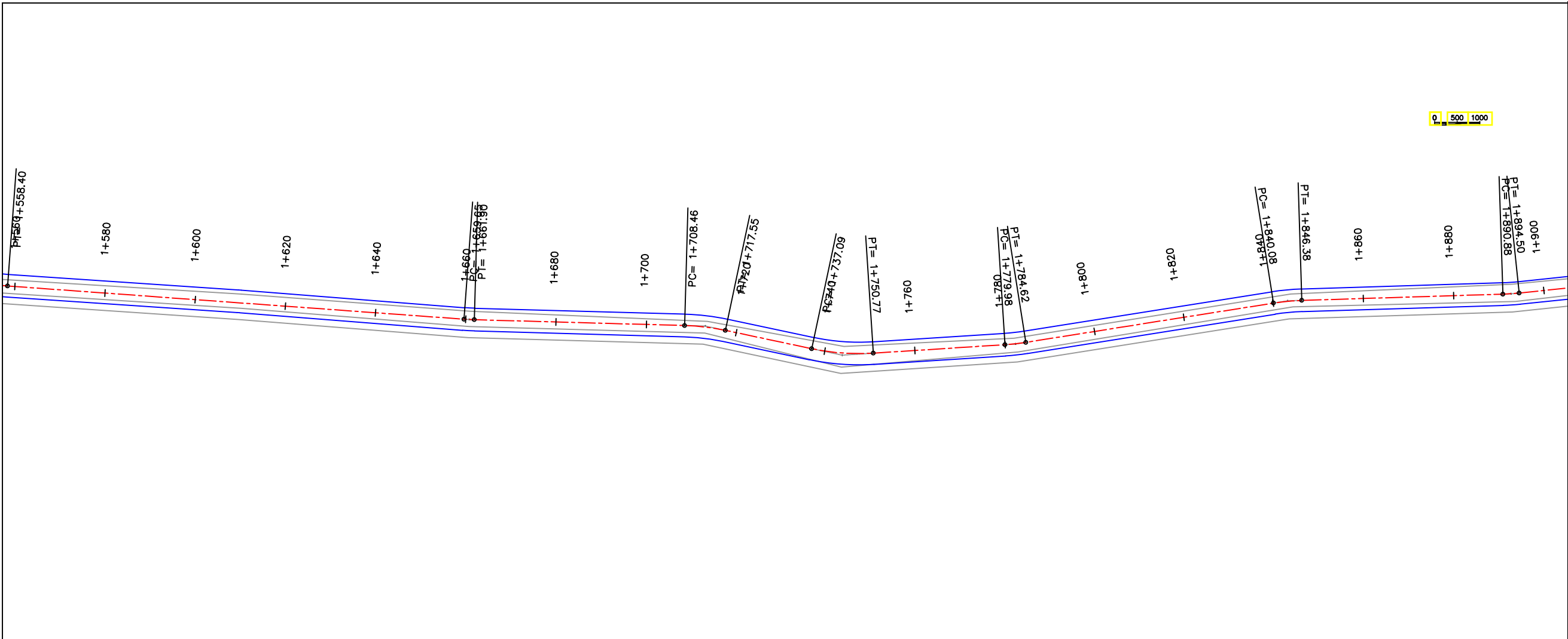
**Drawn By:**  
Mohammad Nasim Rasikh  
Associate Engineer


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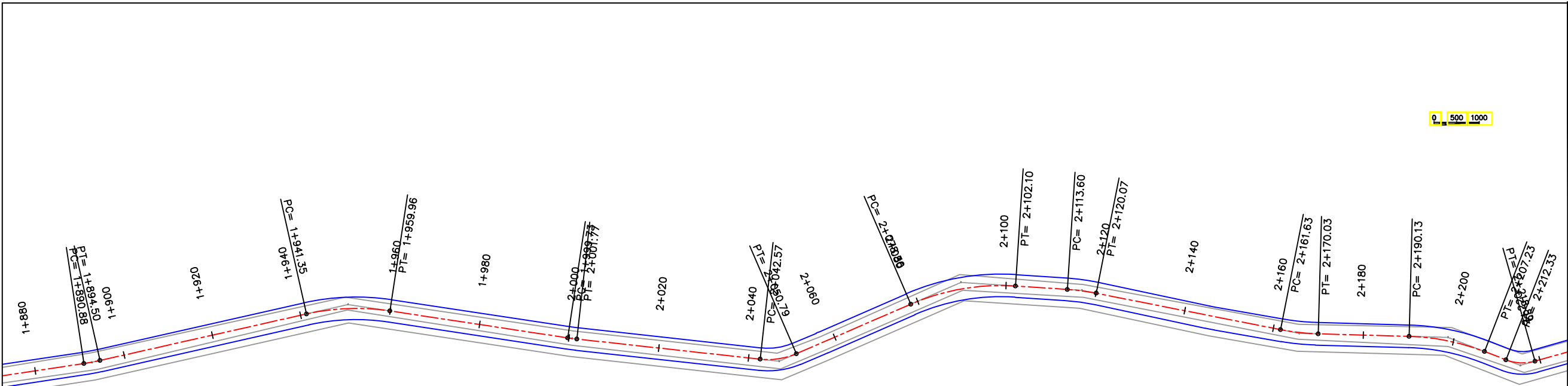


Revision		
Date	Description	
<div><b>UNOPS</b> AFGHANISTAN</div>		
<b>Project Title:</b> <i>Rehabilitation &amp; Construction of Surkhak Tertiary Road, Ch: 00+000 to 05+900, Saripul District, Sari Pul Province</i>		
<div><b>RAIP-IV</b> <b>Mazar—e—Sharif</b></div>		
<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <div>05</div>	<b>Date</b> <i>February-2017</i>



Revision		
Date	Description	
<div>UNOPS AFGHANISTAN</div>		
<b>Project Title:</b> <i>Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.</i>		
<div>RAIP-IV</div> <div>Mazar—e—Sharif</div>		
<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
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Revision	
Date	Description



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*Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.*

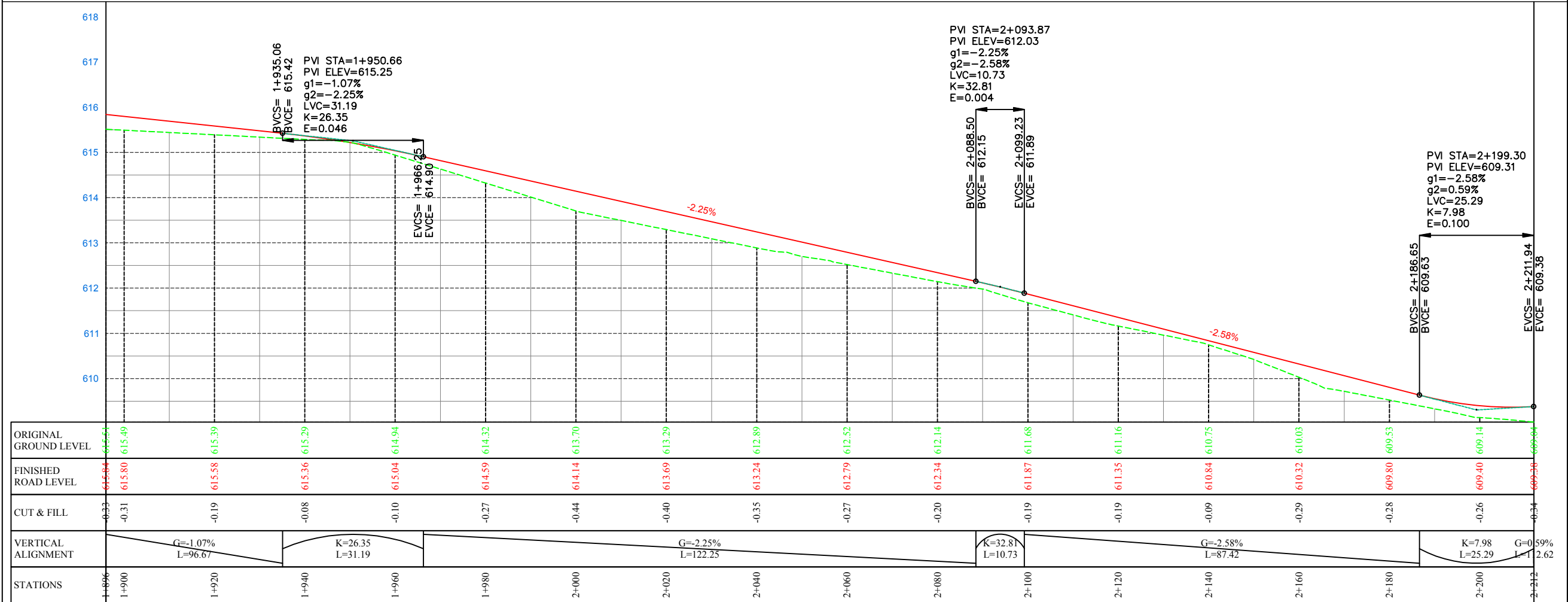
**RAIP-IV**  
**Mazar-e-Sharif**

**Approved By:**  
**Shekhar Kumar Shrestha**  
Acting Project Manager

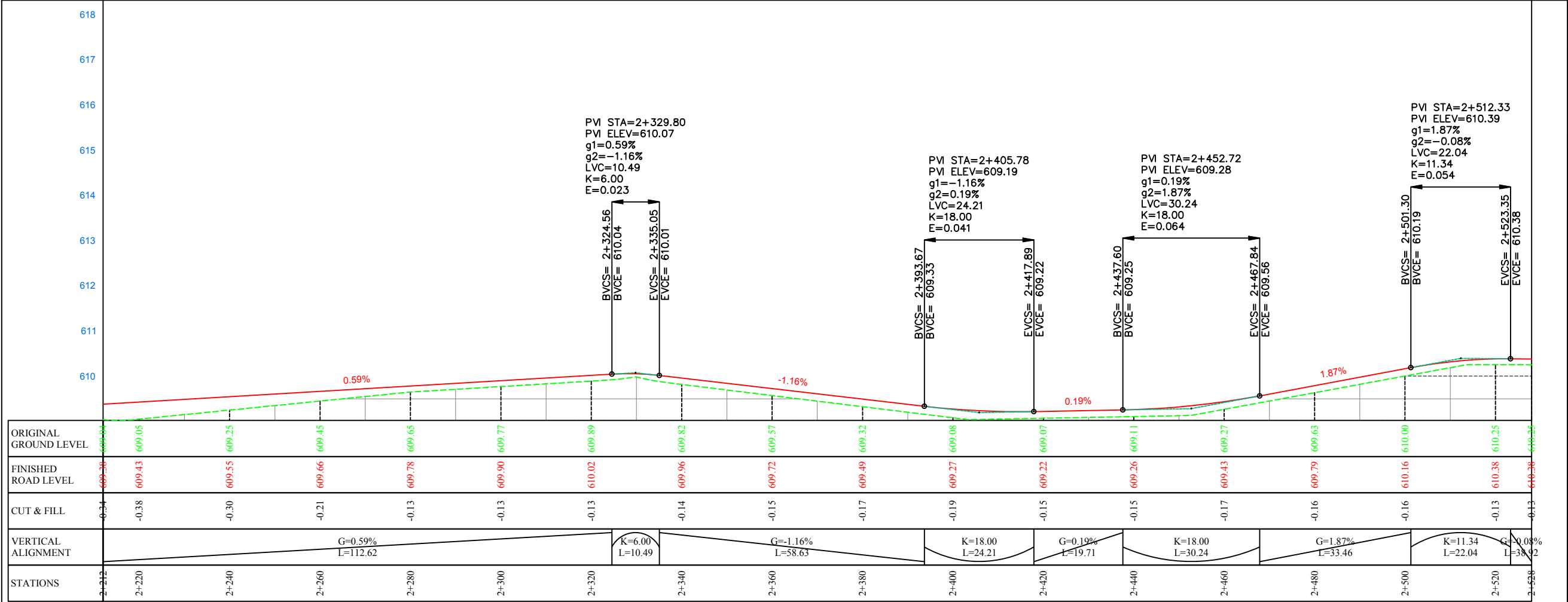
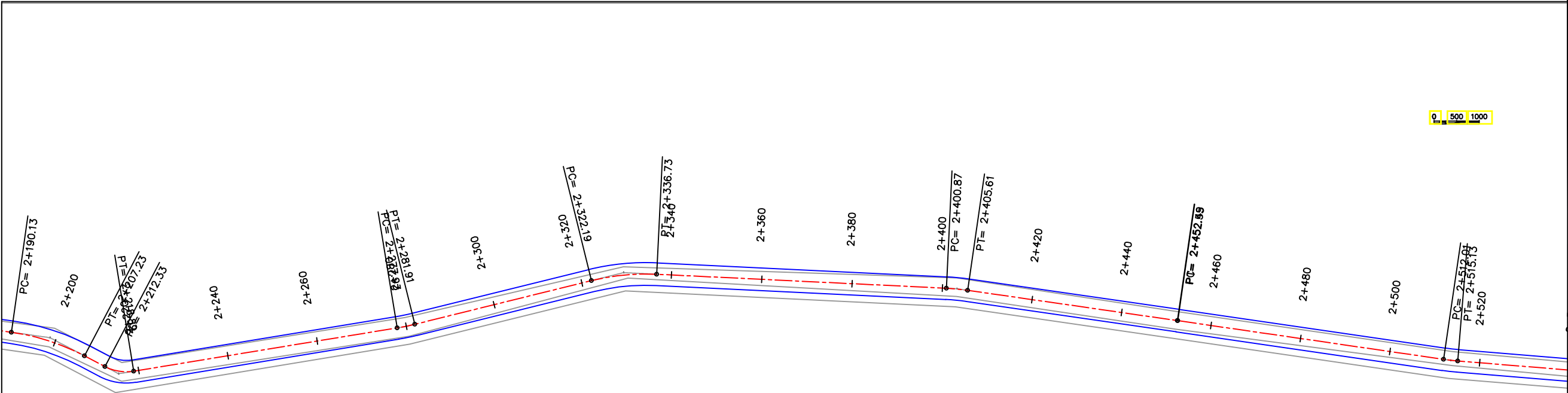
**Checked By:**  
**Noorullah Hakimy**  
Senior Engineer


**Drawn By:**  
**Mohammad Nasim Rasikh**  
Associate Engineer

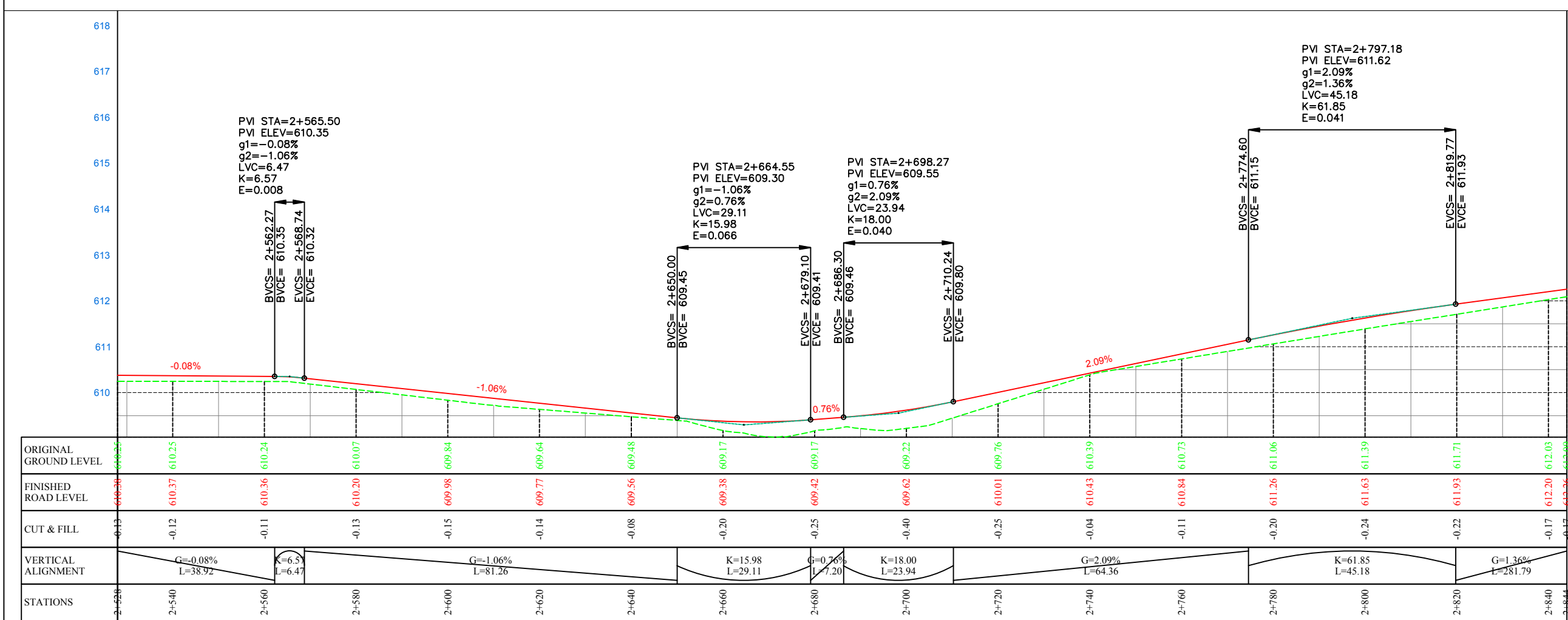
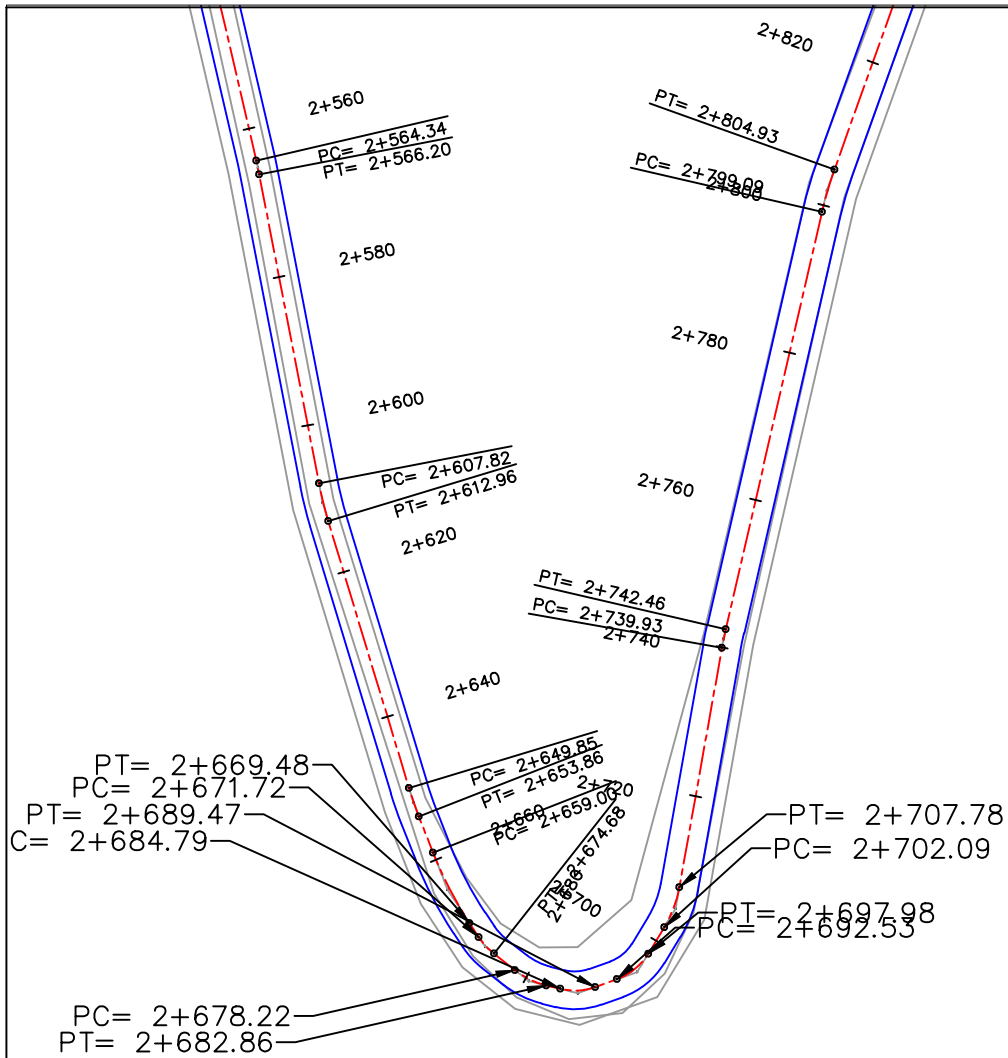
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Sari Pul-02	07	February-2017







Revision		
Date	Description	
<div><b>UNOPS</b> AFGHANISTAN</div>		
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<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <div>08</div>	<b>Date</b> <i>February-2017</i>



## Revision

Date	Description



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Rehabilitation and Construction of  
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**RAIP-IV**  
**Mazar-e-Sharif**

**Approved By:**  
Shekhar Kumar Shrestha  
Acting Project Manager

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Noorullah Hakimy  
Senior Engineer

**Drawn By:**  
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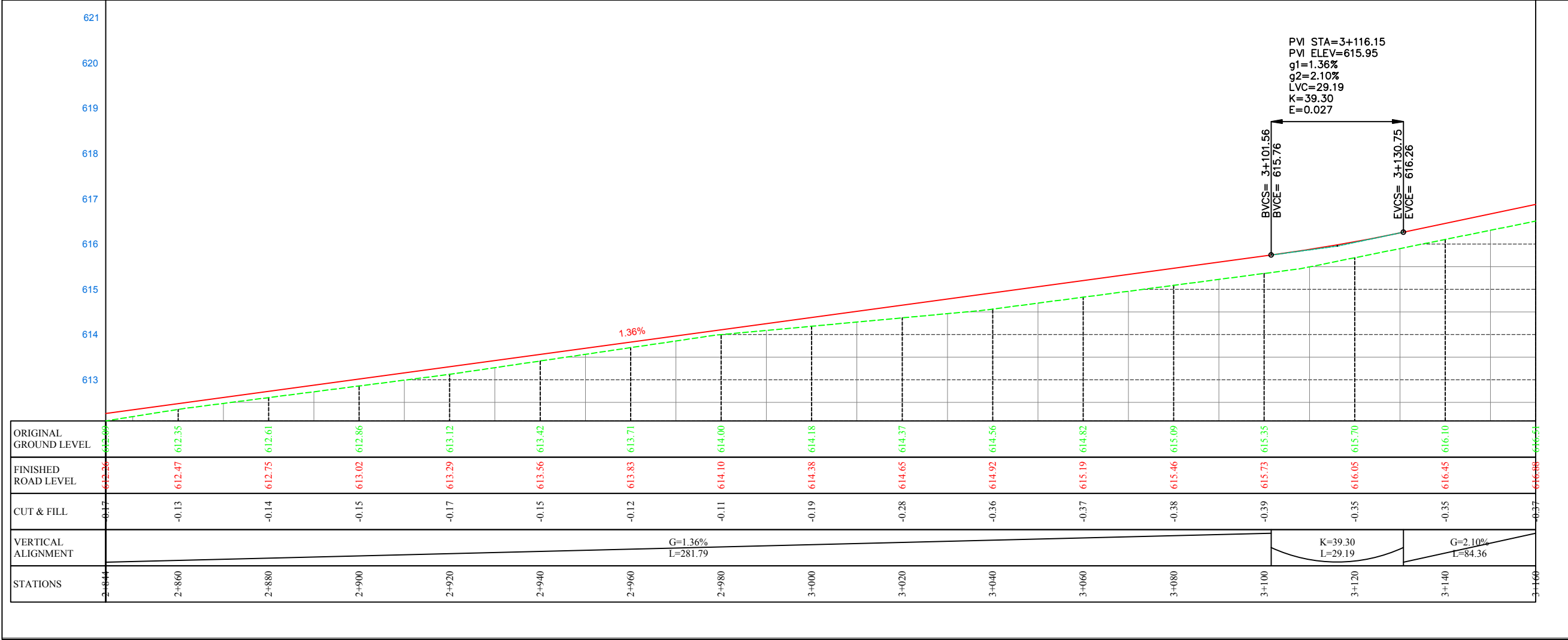
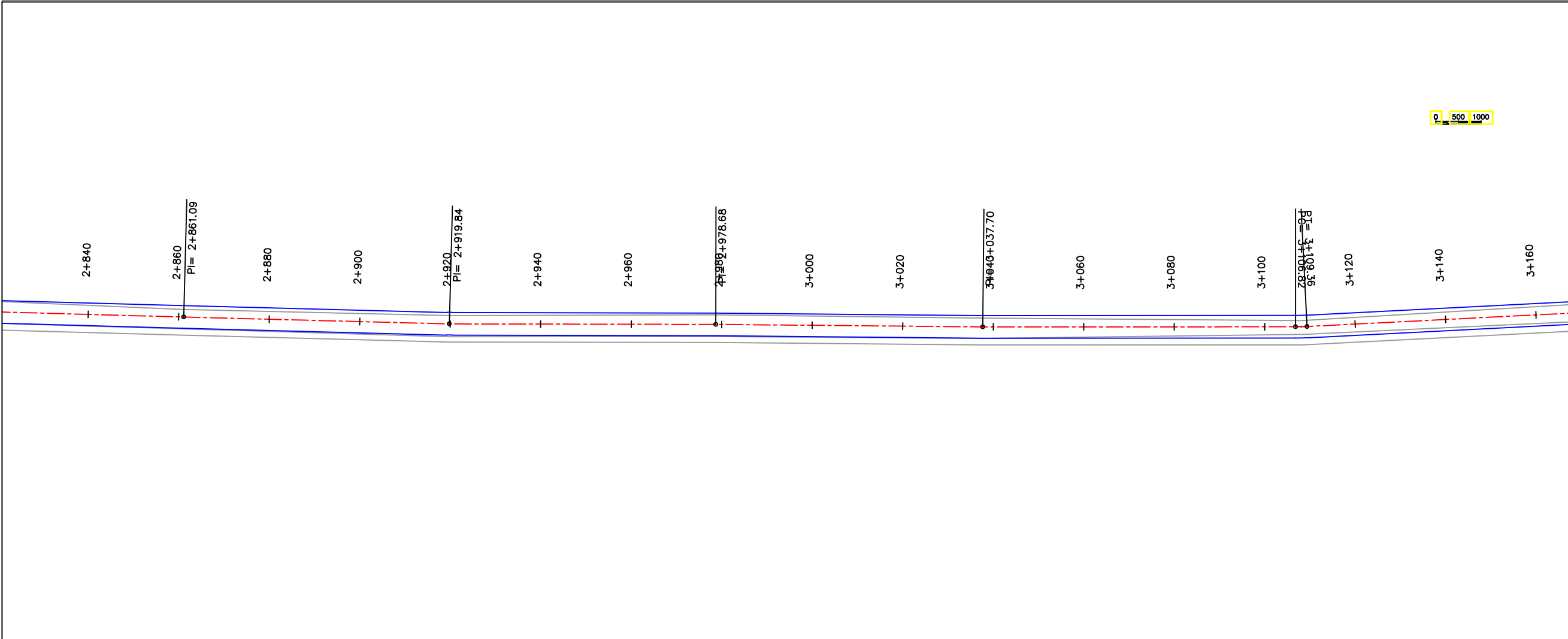
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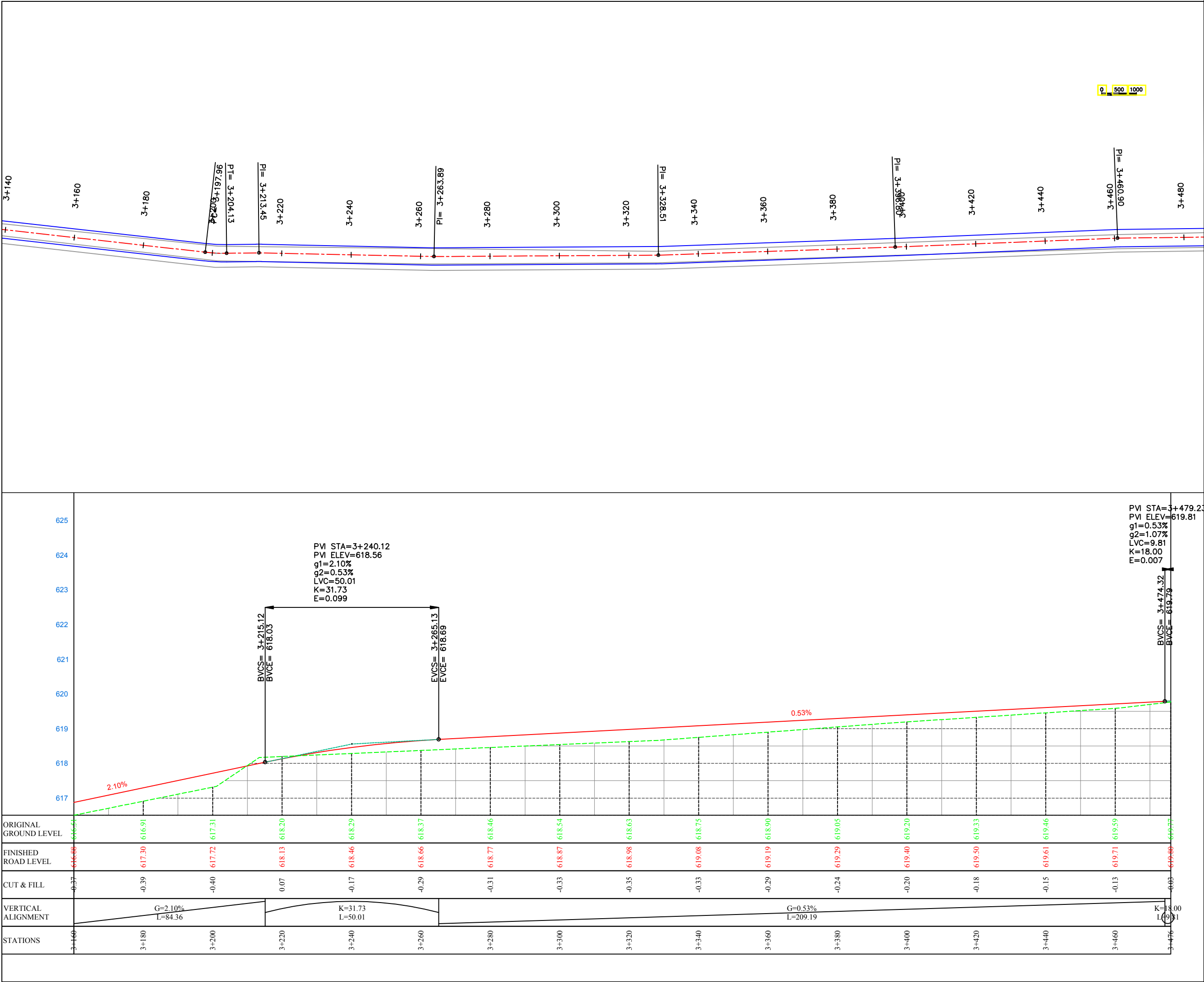
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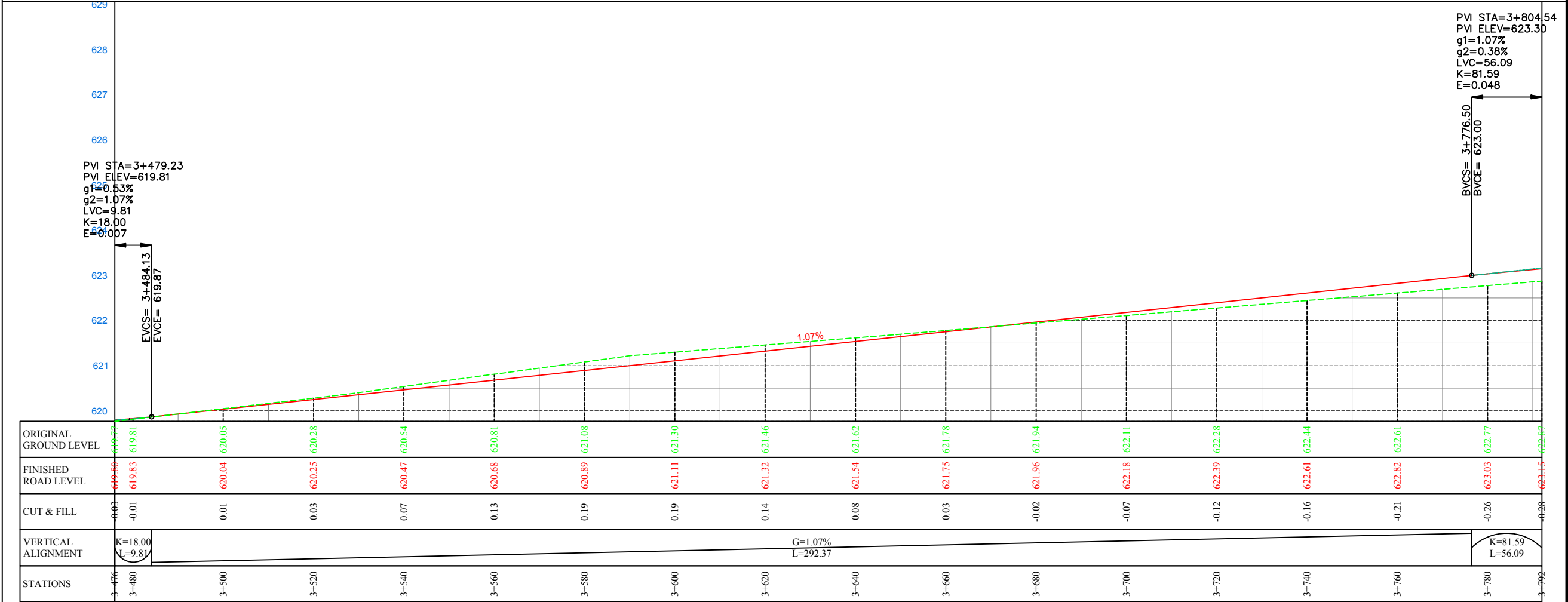
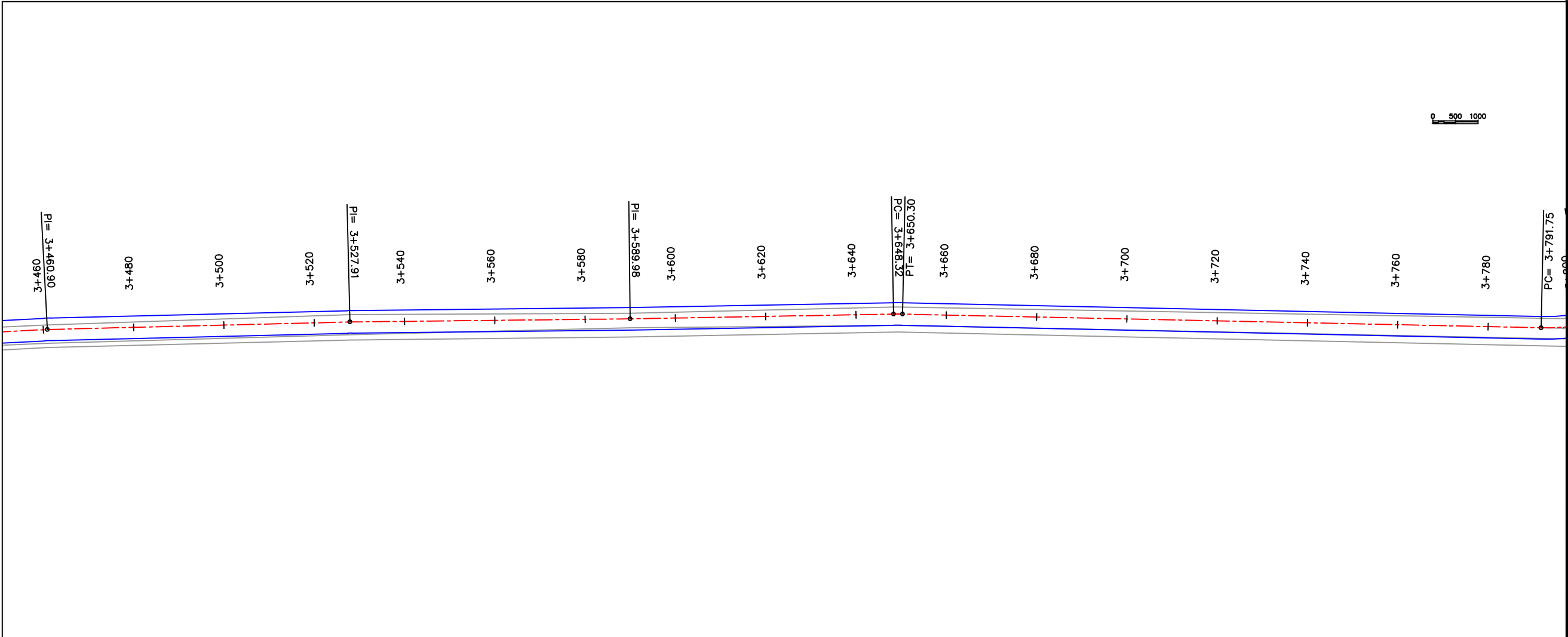
**Date**  
February-2017




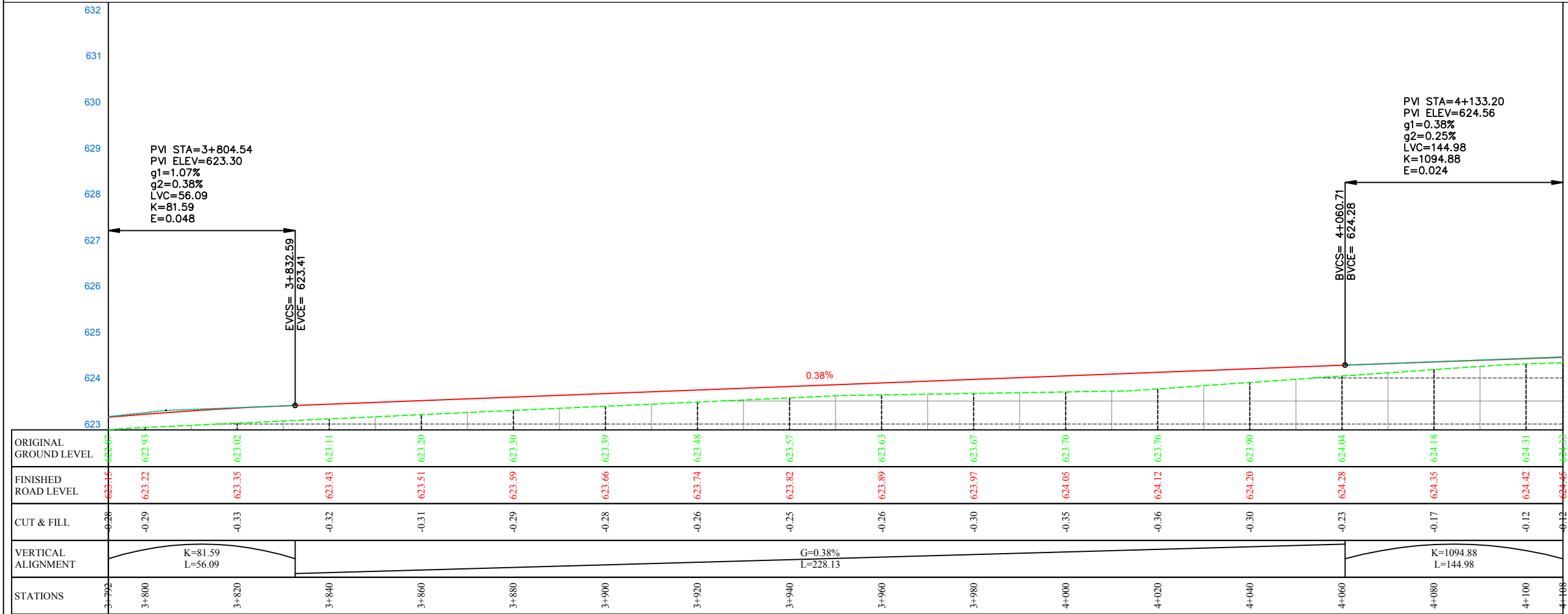
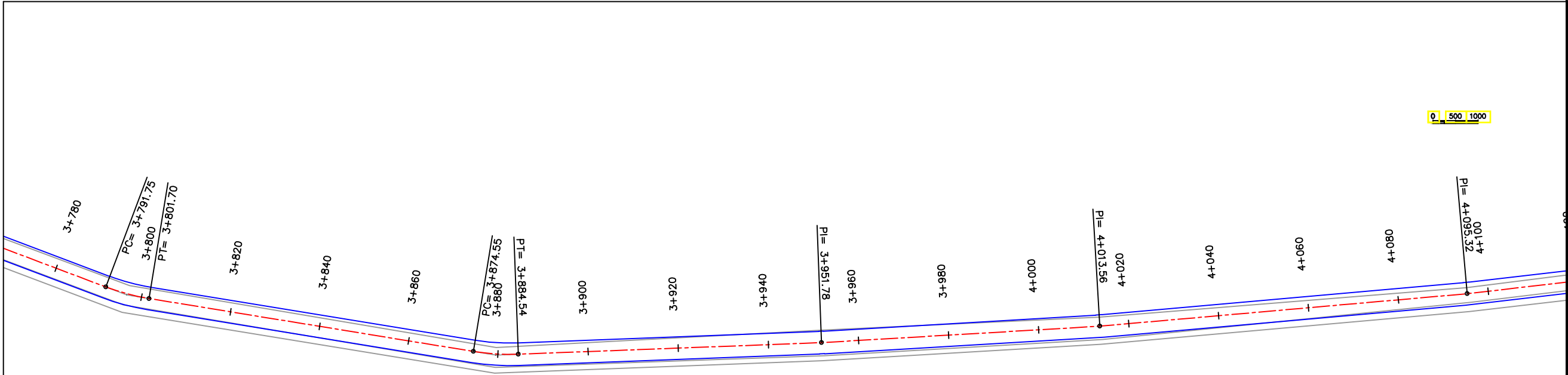
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<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
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<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> <div>11</div>	<b>Date</b> <i>February-2017</i>



Revision		
Date	Description	
<div><b>UNOPS</b> AFGHANISTAN</div>		
<b>Project Title:</b> <i>Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.</i>		
<b>RAIP-IV</b> Mazar—e—Sharif		
<b>Approved By:</b> <i>Shekhar Kumar Shrestha</i> Acting Project Manager		
<b>Checked By:</b> <i>Noorullah Hakimy</i> Senior Engineer		
<b>Drawn By:</b> <i>Mohammad Nasim Rasikh</i> Associate Engineer		
<b>Scale</b> 1:1000	<b>Drawing Title</b> Plan & Profile	
<b>Drawing No</b> Sari Pul-02	<b>Sheet No</b> 12	<b>Date</b> February-2017



## Revision

Date	Description



**Project Title:**  
*Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village(CH: 0+000~5+900 km), Saripul District, Saripul Province.*

**RAIP-IV**  
**Mazar-e-Sharif**

**Approved By:**  
*Shekhar Kumar Shrestha*  
Acting Project Manager

**Checked By:**  
*Noorullah Hakimy*  
Senior Engineer

**Drawn By:**  
*Mohammad Nasim Rasikh*  
Associate Engineer

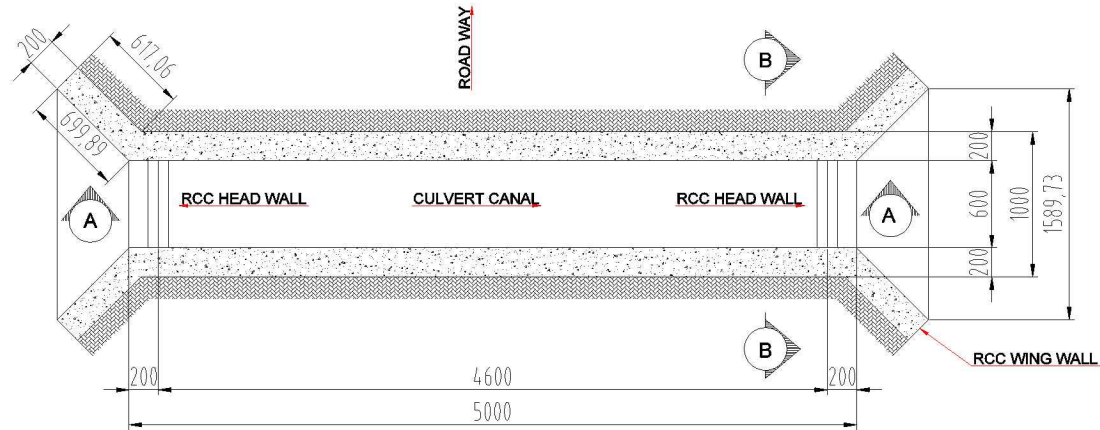
Scale	Drawing Title	
1:1000	Plan & Profile	
Drawing No	Sheet No	Date
Sari Pul-02	13	February-2017

**Rehabilitation and Construction of Tertiary Gravel Road from Sari pul Center to Shurkhak Village (CH:  
0+000~5+900 km), Sari Pul District, Sari Pul Province.**

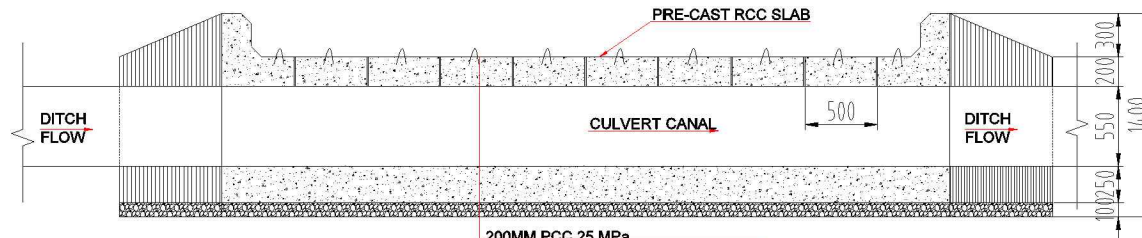
**List and location of proposed structures:**

<b>Structure List</b>					
<b>Chainage</b>	<b>L</b>	<b>W</b>	<b>H</b>	<b>Description</b>	<b>Remarks</b>
0+450	6.6	0.6	0.6	RCC Slab Box-culvert	
0+530	6.6	0.6	0.6	RCC Slab Box-culvert	
0+600	6.6	0.6	0.6	RCC Slab Box-culvert	
1+000	6.6	0.6	0.6	RCC Slab Box-culvert	
1+350	7			8" RCC Pipe Culvert	
1+750	100	0.6	0.7	RCC ditch	
1+900	6.6	0.6	0.6	RCC Slab Box-culvert	
2+000	6.6	0.6	0.6	RCC Slab Box-culvert	
2+250	6.6	1	1	Slab Box-culvert	
2+400	6.6	0.6	0.6	RCC Slab Box-culvert	
2+600	6.6	0.6	0.6	RCC Slab Box-culvert	
2+710	6.6	0.6	0.6	RCC Slab Box-culvert	
3+850	6.6	0.6	0.6	RCC Slab Box-culvert	
4+330	6.6	0.6	0.6	RCC Slab Box-culvert	
4+350	6.6	0.6	0.6	RCC Slab Box-culvert	
4+950	6.6	0.6	0.6	RCC Slab Box-culvert	
5+100	7			8" RCC Pipe Culvert	
5+200	7			8" RCC Pipe Culvert	
5+230	7			8" RCC Pipe Culvert	
5+250	7			8" RCC Pipe Culvert	
5+800	6.6	0.6	0.6	RCC Slab Box-culvert	

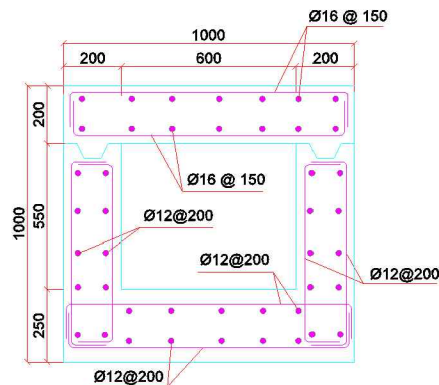




PLAN  
SCALE 1:50



200MM PCC 25 MPa  
550MM CLEAR HEIGHT OF CULVERT  
250MM PCC 25 MPa  
100MM COMPACTED CRUSH GRAVEL  
INCLUDING 10% CLAY



SECTION B-B  
SCALE 1:25

**NOTES:**

1. All dimensions are in "mm" unless otherwise specified
2. Concrete foundations should be reinforced for earthquake zones.
3. Refer to the bar schedule for the length and shape of reinforcement.
4. Concrete mix shall be proportioned by volume with a water/cement ratio of not more than 0.45.
5. Concrete with a recorded slump value greater than 100mm shall be rejected by the Engineer.

**Revision**

Date	Description



**Project Title:**

Rehabilitation and Construction of  
Tertiary Gravel Road from Sari pul Center  
to Shurkhak Village(CH: 0+000~5+900  
km), Saripul District, Saripul Province.

(RAIP-III)

Mazar-e-Sharif

**Approved By:**

**Shekhar Kumar Shrestha**  
Acting Project Manager

**Checked By:**

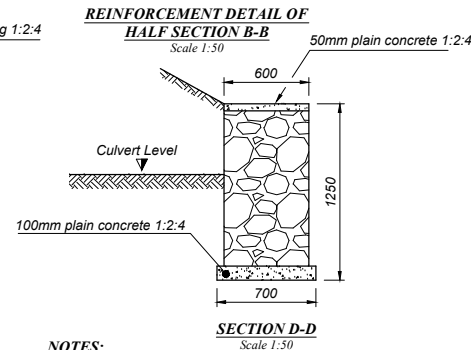
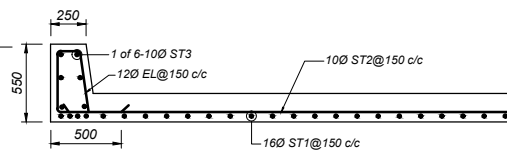
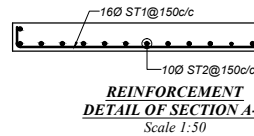
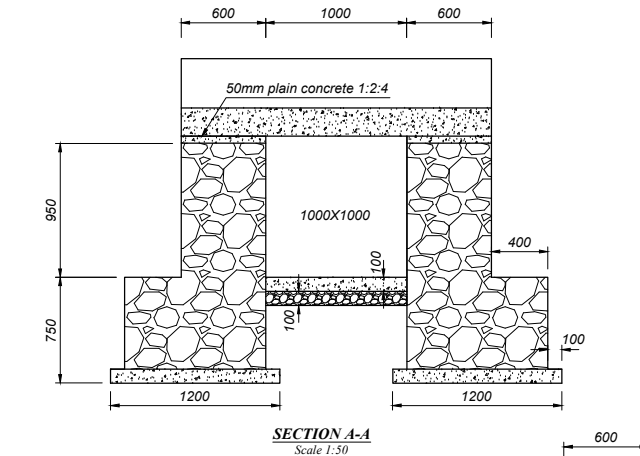
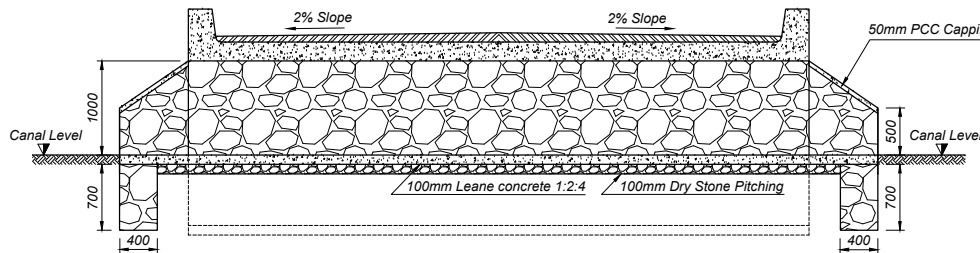
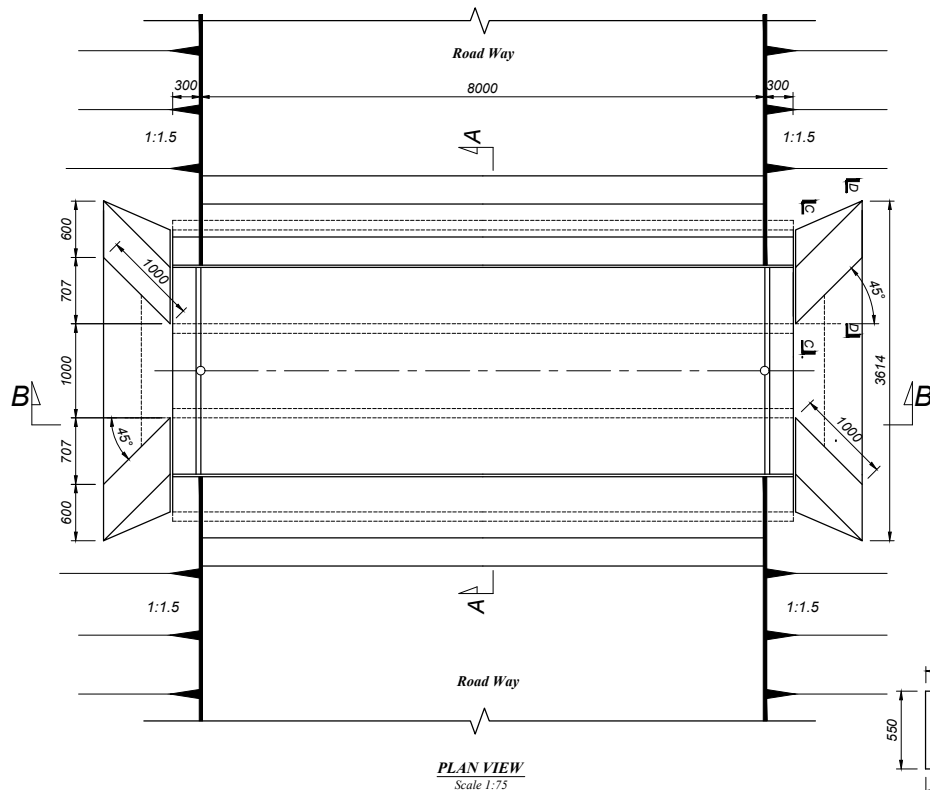
**Noorullah Hakimy**  
Senior Engineer

**Drawn By:**

**Mohammad Nasim Rasikh**  
Associate Engineer

Scale Drawing Title  
NTS Plan, Section and detail

Drawing No Sheet No Date  
SRL-002 22 Feb 2017



#### NOTES:

- All dimensions are in "mm" unless otherwise specified
- 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.
- All masonry work should be pointed.
- Concrete foundations should be reinforced for earthquake zones.
- Angle and length of wing walls to be adjusted by the Engineer as per site conditions.
- Refer to the bar schedule for the length and shape of reinforcement.
- Concrete mix shall be proportioned by volume with a water/cement ratio of not more than 0.45.
- Concrete with a recorded slump value greater than 100mm shall be rejected by the Engineer.
- The culverts should be constructed with a fall of 2-4%.
- Bearing capacity at foundation level should be 1.65kg/cm<sup>2</sup>.

#### SCHEDULE AND QUANTITIES OF REINFORCEMENT FOR SLAB CULVERT

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	8500	1	16	16	136.00	0.62	88.54		8500			
20			ST3	10	2100	2	6	12	25.20	0.62	16.41		2100			
99h			EL1	12	1900	2	16	32	60.80	0.89	56.82		200	500	700	500
			TOTAL+5%LOSSES										388.7200			

#### Revision

Date	Description



**Project Title:**  
Rehabilitation and Construction of  
Tertiary Gravel Road from Sari  
pul Center to Shurkhak  
Village(CH: 0+000~5+900 km),  
Saripul District, Saripul Province.

**RAIP-IV**  
**Mazar-e-Sharif**

**Approved By:**  
Shekhar Kumar Shrestha  
Acting Project Manager

**Checked By:**  
Noorullah Hakimy  
Senior Engineer

**Drawn By:**  
Mohammad Nasim Rasikh  
Associate Engineer

Scale 1:50, 1:75, 1:100	Drawing Title Plan & Sections
Drawing No SRL-02	Sheet No 3
	Date February-2017