

GOVERNMENT OF KHYBER PAKHTUNKHWA		
GOVERNMENT OF KHYBER PAKHTUNKHWA		
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)		
MUTHROR TO THAL VIA BADGOI TOP ROAD DISTRICT SWAT N-SWT-T4)		
TOURISM ROADS IN DISTRICT SWAT		
PACKAGE 6 LOT-2		
SUMMARY OF BILLS		
S No	DESCRIPTION	TOTAL AMOUNT IN FIGURES (RS)
1	BILL NO: 1 EARTH WORK	
2	BILL NO: 2 ROAD WORK (SUB-BASE, BASE AND SURFACE COURSE )	
3	BILL NO: 3 SLAB, BOX AND PIPE CULVERTS	
4	BILL NO: 4 RETAINING WALLS AND BREAST WALL	
5	BILL NO: 5 DRAINAGE AND ANTI EROSION WORK	
6	BILL NO: 6 ANCILLARY WORKS	
7	BILL NO: 6a REST AREA	
8	BILL NO: 6b WALKING TRACK AND STRAIRS	
9	BILL NO: 6d CLEARANCE OF SNOWFALL	40,800,000.00
10	BILL NO: 7 GENERAL ITEMS	168,409,038
TOTAL AMOUNT OF CIVIL WORK:		
TOTAL AMOUNT OF CIVIL WORK IN MILLIONS:		



Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department, Peshawar




GOVERNMENT OF KHYBER PAKHTUNKHWA						
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)						
AUTHOR TO THAL VIA BADGOI TOP ROAD DISTRICT SWAT N-SWT-T4						
PACKAGE 6 LOT-2						
BILLS OF QUANTITIES						
NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) in Figures	Unit Rate (Rs) in Words	Total Amount (Rs) in Figures

**BILL NO: 1 EARTH WORK**

101	Clearing and Grubbing.	SM	9,240.00			-
104	Compaction of Natural Ground.	SM	9,240.00			-
108a	Formation of Embankment from Road way excavation in common material	CM	76,273.40			-
108b (iii)	Formation of Embankment from Roadway excavation in Soft Rock Material	CM	32,688.60			-
106a / 106c	Excavate Unsuitable / Surplus Common Material	CM	150,883.90			-
106bi / di	Excavate Unsuitable / Surplus Hard Rock Material	CM	42,702.99			-
106bii / dii	Excavate Unsuitable / Surplus Medium Rock Material	CM	28,468.66			-
106bi / diii	Excavate Unsuitable / Surplus Soft Rock Material	CM	62,631.05			-
109a	Subgrade preparation in Earth Cut	SM	36,960.00			-
<b>Total:</b>						-

Project Engineer  
 District Engineer  
 District Engineer



GOVERNMENT OF KHYBER PAKHTUNKHWA						
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UTHROR TO THAL VIA BADGOI TOP ROAD DISTRICT SWAT N-SWT-T4						
PACKAGE 6 LOT-2						
BILLS OF QUANTITIES						
NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) in Figures	Unit Rate (Rs) in Words	Total Amount (Rs) in Figures

**BILL # 2 ROAD WORK (SUB-BASE, BASE AND SURFACE COURSE )**

201	Granular Sub Base	CM	27,365.00			-
401a3 (ii)	Concrete Class 'A 3' (ON GROUND)	CM	36,487.00			-
404b	Reinforcement as per AASHTO M 31 Grade 60	Ton	58.91			-
310.2.6 - 9	Providing and fixing antistain and compound grade 60 hard grease dowel @ 400mm c/c 32mm dia, 600mm long i/c dowel cap with imported PVC Pipe complete assembly in expansion and contraction joint in rigid pavement as per drawing.	Each	126,046.00			-
310.2.3	Providing and laying Polythene sheet heavy weight under rigid pavement including overlapping, wastage and cortage etc. complete as per drawing.	SM	182,435.00			-
SIW-15 406a	Premoulded Joint Filler 20 mm Thick with Bitumastic joint seal	M	68,200.00			-
<b>Total:</b>						-

Project Director (PIJ)  
Provincial Road Improvement Project  
C&W Department Peshawar



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NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) In Figures	Unit Rate (Rs) In Words	Total Amount (Rs) In Figures

**BILL # 3 ( SLAB, BOX AND PIPE CULVERTS)**

107a	Structural Excavation in Common Material.	CM	13,509.00			-
401f	Lean Concrete	CM	1,008.00			-
401 a3ii	Concrete Class A3 (On ground)	CM	2,883.00			-
404b	Reinforcement as per AASHTO M 31 Grade 60	Ton	452.63			-
507 b	Rock Fill in Gabions	CM	3,600.00			-
SIW-17 507 a	Steel Wire Mesh for Gabion	SM	7,200.00			-
SIW 14 (Item 511 b)	Grouted Stone Pitching (C.S. 1:6)	CM	420.00			-
501d	R.C.C. Pipe Culvert AASHTO M 170 Class II Dia 610 mm	M	80.00			-
501f	R.C.C. Pipe Culvert AASHTO M 170 Class II Dia 910 mm	M	120.00			-
502 b	Concrete Class B in Bedding and Encasement of Concrete Pipe Culvert.	CM	240.00			-
SIW-13	Providing and filling sand behind abutment of culverts and causeways	CM	7,324.00			-
<b>Total:</b>						-

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UTHROR TO THAL VIA BADGOI TOP ROAD DISTRICT SWAT N-SWT-T4						
PACKAGE 6 LOT-2						
BILLS OF QUANTITIES						
SMA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) In Figures	Unit Rate (Rs) In Words	Total Amount (Rs) In Figures

**BILL # 4 ( RETAINING WALLS AND BREAST WALL )**

107a	Structural Excavation in Common Material.	CM	39,997.00			-
107e	Common Backfill	CM	8,690.00			-
401b	Concrete Class B	CM	3,599.00			-
401a1 (ii)	Concrete Class A1 (ON GROUND)	CM	1,272.00			-
401f	Lean Concrete	CM	8,436.00			-
SIW-8 401h	Plum Concrete (Class 'B' with 40% Boulders/ Rock) as per drawing & Engineer's Instructions	CM	130,294.00			-
<b>Total:</b>						-



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BILLS OF QUANTITIES						
NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) in Figures	Unit Rate (Rs) in Words	Total Amount (Rs) in Figures

**BILL # 5 ( DRAINAGE AND ANTI EROSION WORK )**

107a	Structural Excavation in Common Material	CM	8,613.00			-
107c	Common Backfill	CM	6,023.00			-
401b	Concrete Class B	CM	10,890.00			-
401a ii	Concrete Class A1 (ON GROUND)	CM	68.00			-
404 b	Reinforcement as per AASHTO M 31 Grade 60	Ton	9.61			-
507 b	Rock Fill in Gabions	CM	11,250.00			-
SIW-17 507 a	Steel Wire Mesh for Gabion	SM	22,500.00			-
401f	Lean Concrete	CM	4,950.00			-
<b>Total:</b>						-



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PACKAGE 6 LOT-2						
BILLS OF QUANTITIES						
NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) in Figures	Unit Rate (Rs) in Words	Total Amount (Rs) in Figures

**BILL # 6 ( ANCILLARY WORKS )**

610 c	Kilometer Post	EACH	34.00			-
607 a	Traffic Road Signs Category 1 Size 75 CM	EACH	12.00			-
607 b	Traffic Road Signs Category 2 Size dia 75 CM	EACH	10.00			-
607c	Traffic Road Signs Category 3 (a)	EACH	8.00			-
607 d	Traffic Road Signs Category 3 (b)	EACH	6.00			-
608 h	Pavement Marking in reflective TP paint for line of 15 cm width.	M	86,800.00			-
609 a	Reflectorised Pavement Stud (Flash Surface Type Single)	EACH	6,200.00			-
604 a	Metal Guard Rail	M	6,600.00			-
604 b	Guard Rail End pieces	EACH	45.00			-
604 d	Steel Post for Guard Rail	EACH	2,200.00			-
<b>Total:</b>						-

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BILLS OF QUANTITIES						
NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) In Figures	Unit Rate (Rs) In Words	Total Amount (Rs) In Figures

**BILL # 6b (REST AREA)**

P.S	Building Works	SM	340.00			-
P.S	Pavement Work	SM	810.00			-
<b>Total:</b>						-

**BILL NO: 6b WALKING TRACK AND STRAIRS**

101	Clearing and Grubbing	SM	2,583.00			-
104	Compaction of Natural Ground	SM	2,583.00			-
108a	Formation of Embankment from Road way excavation in common material	CM	9,324.63			-
106a / 106c	Excavate Unsuitable Common Material	CM	6,527.24			-
106b (i)	Excavate Unsuitable Hard Rock Material Unclassified	CM	1,864.93			-
106b (ii)	Excavate Unsuitable Medium Rock Material Unclassified	CM	932.46			-
SIW 14 (Item 511 b)	Grouted Stone Pitching (C.S. 1:6)	CM	5,904.00			-
SIW-8 401h	Plain Concrete (Class 'B' with 40% Boulders/ Rock) as per drawing & Engineer's Instructions	CM	4,649.40			-
401b	Concrete Class B	CM	332.00			-
401a ii	Concrete Class A1 (ON GROUND)	CM	295.20			-
411g	Roll Pointing on Stone Work	SM	2,214.00			-
109a	Subgrade preparation in Earth Cut	SM	5,904.00			-
<b>Total:</b>						-

  
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UTHROR TO THAL VIA BADGOI TOP ROAD DISTRICT SWAT N-SWT-T4						
PACKAGE 6 LOT-2						
BILLS OF QUANTITIES						
NHA Specification Item No.	DESCRIPTION	Unit	BOQ			
			QTY	Unit Rate (Rs) In Figures	Unit Rate (Rs) In Words	Total Amount (Rs) In Figures

**BILL # 6d (CLEARANCE OF SNOWFALL )**

SIW	Removal of Snowfall Till end of Defect Liability and cost will paid as per The Engineer Directive.	SP	40,800,000.00	-		40,800,000.00
<b>Total:</b>						<b>40,800,000.00</b>

**BILL # 7 (GENERAL ITEMS)**

7	Provision of Engineering Testing Laboratory Equipment + Purchasing of Vehicles for Resident Engineers, Assistant Resident Engineers and Support Staffs including Registration, POL, Maintenance and Salaries of Drivers, Utility bills	SP	168,409,038			168,409,038
<b>Total:</b>						<b>168,409,038</b>

Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar



PROJECT:

KHYBER PAKHTUNKHWA  
RURAL ROAD DEVELOPMENT PROJECT  
(KP-RRDP)

TENDER DRAWINGS

N-SWT-T4  
UTHROR TO THAL VIA BADGOI TOP

AUG, 2024

  
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar





**MINCONSULT SDN BHD**  
(Company No : 58835-P)



GOVERNMENT OF KHYBER  
PAKHTUNKHWA  
COMMUNICATION & WORKS  
DEPARTMENT  
PROJECT IMPLEMENTATION UNIT(PIU)



**CREATIVE ENGINEERING CONSULTANTS**  
CREATIVE HOUSE, PHASE 3 CHOWK MAIN JAMRUD ROAD,  
PESHAWAR.

SR.NO	TITLE	DWG NO.	SR.NO	TITLE	DWG NO.
1	TITLE PAGE		29		
			30		
2	LIST OF DRAWINGS	CEC/HW/KP-RRDP/N-SWT-T4/LD-01	30		
3					
4	GENERAL & TYPICAL DRAWINGS				
5	SYMBOLS & ABBREVIATIONS	CEC/HW/KP-RRDP/N-SWT-T4/SA-03(a&b)			
6	GENERAL NOTES FOR ROAD CONSTRUCTION	CEC/HW/KP-RRDP/N-SWT-T4/GN-04			
7	TYPICAL MINOR ROAD JUNCTION	CEC/HW/KP-RRDP/N-SWT-T4/MJD-05(a-b)			
8	TYPICAL SUPER ELEVATION DETAILS	CEC/HW/KP-RRDP/N-SWT-T4/SE-06			
9	TRAFFIC SIGNS DETAILS	CEC/HW/KP-RRDP/N-SWT-T4/TSD-07(a-g)			
10	PAVEMENT MARKING DETAILS	CEC/HW/KP-RRDP/N-SWT-T4/PM-08			
11	KILOMETER POST DETAILS	CEC/HW/KP-RRDP/N-SWT-T4/KM-09			
12	GUARD RAIL DETAILS	CEC/HW/KP-RRDP/N-SWT-T4/GR-10			
13	TYPICAL CROSS SECTIONS				
14					
15	TYPICAL CROSS SECTIONS	CEC/HW/KP-RRDP/N-SWT-T4/TCS-01			
16	CENTER LINE DATA				
17	CENTER LINE DATA	CEC/HW/KP-RRDP/N-SWT-T4/CL-01-06			
18	HORIZONTAL CURVE DATA				
19	HORIZONTAL CURVE DATA	CEC/HW/KP-RRDP/N-SWT-T4/HCD-01-15			
22	PLAN & PROFILE DRAWINGS				
23	PLAN & PROFILE DRAWINGS	CEC/HW/KP-RRDP/N-SWT-T4/P&P-01-87			
24					
25					
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27					
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Project - MCHP (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

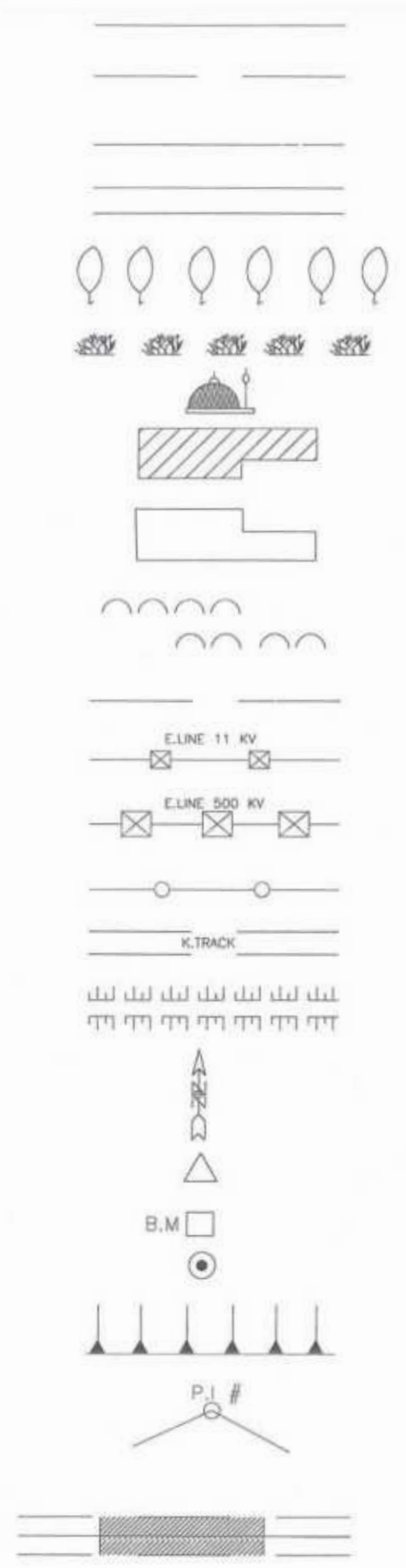
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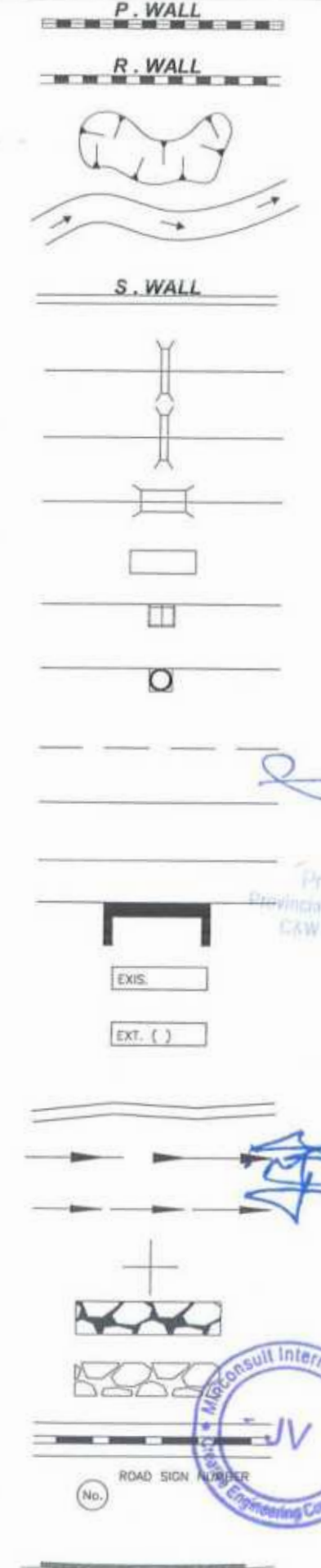
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58935-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	a	AUG, 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	N.T.S	LIST OF DRAWINGS
		c			DRAWN IMRAN			DATE:	
		b			CHECKED S.DURRANI			AUG.	



DESIGN CENTERLINE  
 PROPOSED RIGHT OF WAY  
 TOE OF PROPOSED EMBANKMENT  
 EXISTING ROAD EDGE  
 GARDEN / TREES  
 BUSHES  
 MOSQUE  
 BUILT-UP AREA (BUILDING/HOUSE)  
 HUT / MUD HOUSE (KACHA)  
 GRAVES / GRAVE YARD  
 LIMIT OF AGRICULTURAL FIELDS  
 H.T / L.T POWER TRANSMISSION LINE  
 500 KV TRANSMISSION LINE  
 TELEPHONE / TELEGRAPH LINE  
 EXISTING KATCHA TRACK  
 DYKE  
 NORTH  
 TRAVERSE POINT  
 BENCH MARK  
 TUBE WELL / WELL  
 EXISTING EMBANKMENT SLOPE  
 POINT OF INTERSECTION  
 CAUSEWAY ( IN PLAN )



PARAPET WALL  
 RETAINING WALL  
 DEPRESSION / DITCH / POND  
 RIVER / NULLAH  
 STONE MASONRY SIDE WALL  
 EXISTING/PROPOSED BOX CULVERT ( IN PLAN )  
 PIPE CULVERT ( IN PLAN )  
 EXISTING/PROPOSED BRIDGE ( IN PLAN )  
 BRICK WALL / BOUNDARY WALL  
 BOX CULVERT ( IN PROFILE )  
 PIPE CULVERT ( IN PROFILE )  
 EXISTING GROUND LEVEL (N.S.L) AT DESIGN CENTRELINE  
 FORMATION ROAD LEVEL(F.R.L)  
 SUB GRADE LINE (S.G.L) AT DESIGN CENTRELINE  
 BRIDGE ( IN PROFILE )  
 EXISTING CULVERT SIZE  
 EXISTING CULVERT EXTENSION TO LEFT (L) RIGHT (R)  
 WATER COURSE ( EXISTING ) ( LINED )  
 WATER COURSE ( UNLINED )  
 RELOCATED WATER COURSE  
 GRID CORNER  
 GROUTED RIPRAP  
 LOOSE RIPRAP  
 RAILWAY LINE  
 ROAD SIGN ( IN PLAN )  
 CAUSEWAY ( IN PROFILE )



Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

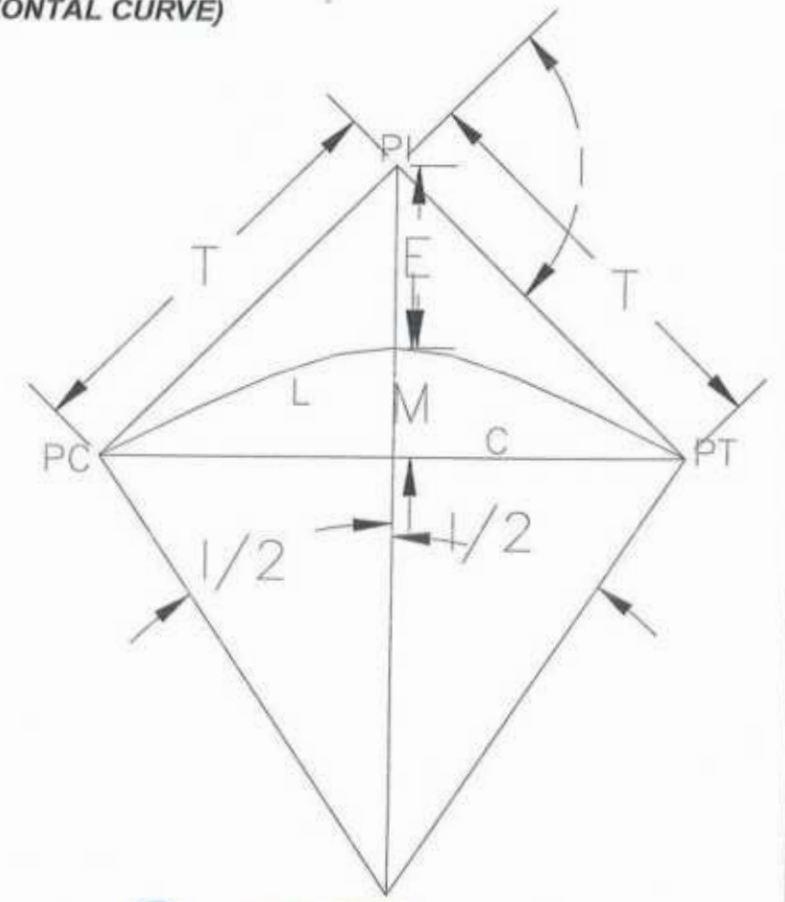


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:			
		0	AUG, 2024	TENDER DRAWINGS	G.DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	SYMBOLS & ABBREVIATION
		a			DRAWN	BRAN							
		b			CHECKED	S.DURRAH							
CLIENT:		DESIGN CONSULTANT: (MIN - JV - CEC)		PROJECT:		ROAD NAME:		SCALE:		SHEET CONTENT:			



A AREA  
 B BREADTH  
 BC REINFORCED CONCRETE BOX CULVERT  
 B.M BENCH MARK  
 BOP BEGINNING OF PROJECT  
 C CHORD LENGTH  
 C.B.R CALIFORNIA BEARING RATIO  
 C/C CENTER TO CENTER  
 CHD CHECKED  
 C/L CENTER LINE  
 CM CENTIMETER  
 CONC CONCRETE  
 CONST/JT CONSTRUCTION JOINT  
 CUL CULVERT  
 Cu.m CUBIC METER  
 CURVE LEN VERTICAL CURVE LENGTH  
 D DEPTH  
 Da DEGREE OF CURVE (BY ARC)  
 Dc DEGREE OF CURVE (BY CHORD)  
 DEG DEGREE  
 DIA DIAMETER  
 DIM DIMENSION  
 D/S DOWNSTREAM  
 D.S.T DOUBLE SURFACE TREATMENT  
 DRG DRAWING  
 E EASTING , EAST  
 E EXTERNAL DISTANCE (SHIFT)  
 ELEV./EL ELEVATION  
 EOP END OF PROJECT  
 EXIS EXISTING  
 EXT/JT EXPANSION JOINT  
 F.R.L FORMATION ROAD LEVEL  
 G.I GALVANIZED IRON  
 H HORIZONTAL  
 H.T/L.T HIGH TENSION/LOW TENSION  
 HF HEIGHT OF FILL  
 HWY HIGHWAY  
 I DEFLECTION ANGLE (HORIZONTAL CURVE)  
 Ic CIRCULAR DEFLECTION ANGLE  
 I.L INVERT LEVEL  
 K K-FACTOR (VERTICAL CURVE)  
 Kg KILOGRAM  
 KM/km KILOMETER  
 L LENGTH OF HORIZONTAL CURVE  
 LIN.M LINEAR METER  
 LHS LEFT HAND SIDE  
 LT LEFT  
 M/m METER  
 M MIDDLE ORDINATE  
 MAX MAXIMUM  
 M.H MAN HOLE  
 MIN MINIMUM  
 MM MILLIMETER

MSE CROSS SLOPE AT MAXIMUM SUPERELEVATION  
 N NORTHING, NORTH  
 No NUMBER  
 N.T.S NOT TO SCALE  
 NSL NATURAL SURFACE LEVEL  
 PROP: PROPOSED  
 PC POINT OF HORIZONTAL CURVATURE (START OF HORIZONTAL CURVE)  
 PC REINFORCED CONCRETE PIPE CULVERT  
 PGL PROFILE GRADE LINE  
 PI POINT OF HORIZONTAL INTERSECTION  
 PR POINT OF ROTATION  
 PT POINT OF HORIZONTAL TANGENCY (END OF HORIZONTAL CURVE)  
 P.C.C PLAN CEMENT CONCRERE  
 R RADIUS OF HORIZONTAL CURVE  
 R.C.C REINFORCED CONCRETE  
 REINF REINFORCEMENT  
 REV REVISION  
 RHS RIGHT HAND SIDE  
 R.O.W RIGHT OF WAY  
 R.R RIP RAP  
 RT RIGHT  
 R/W RETAINING WALL  
 RWC ( ) RELOCATION WATER COURSE (TYPE)  
 S.G.L SUB GRADE LEVEL  
 S SLOPE GRADIENT (PERCENT)  
 SE SUPERELEVATION  
 S.B.P SHOULDER BREAK POINT  
 SC SLAB CULVERT  
 SHLD SHOULDER  
 Sq.m SQUARE METER  
 STA/STA STATION  
 STRUCT STRUCTURE  
 S'WALL SIDE WALL  
 T TANGENT LENTH OF HORIZONTAL CURVE  
 T.D TOE DITCH  
 T.S.T TRIPPLE SURFASE TREATMENT  
 TAN TANGENT  
 TH THICKNESS  
 TR TRANSITION  
 TR (TANGENT RUN OUT) = DISTANCE FROM BS TO THE PC  
 TYP TYPICAL  
 U/S UPSTREAM  
 V VERTICAL  
 VAR VARIABLE  
 VER VERIFIED  
 VPC VERTICAL POINT OF CURVATURE (START OF VERTICAL CURVE)  
 VPI VERTICAL POINT INTERSECTION OF PROFILE GRADE.  
 VPT VERTICAL POINT OF TANGENCY (END OF VERTICAL CURVE)  
 W WEST,WIDTH OF ROADWAY  
 W.B.M WATER BOUND MACADAM  
 WC WATER COURSE  
 Ø SKEW ANGLE



*[Signature]*  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 CAW Department, Peshawar

*[Signature]*



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	a	AUG, 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	N.T.S DATE: AUG.	SYMBOLS & ABBREVIATOIN
		b			DRAWN IMRAN				
		c			CHECKED S.DURRANI				






## GENERAL NOTES FOR ROAD CONSTRUCTION

1. GRID COORDINATES & ELEVATIONS FOR THE PROJECT ARE BASED ON UNIVERSAL TRANSVERSE MERCATOR (UTM WGS84).
2. EACH DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER DRAWINGS.
3. NOTES GIVEN ON DRAWINGS ADJACENT TO A SECTION OR DETAIL PERTAIN TO THAT PARTICULAR DETAIL ONLY.
4. THE CONTRACTOR SHALL ENDEAVOR MAXIMUM TO MAINTAIN UNINTERRUPTED FLOW OF TRAFFIC AT ITS ADJOINING CROSS ROADS AND SUBMIT A COMPREHENSIVE DIVERSION PLAN TO ENGINEER FOR APPROVAL.
5. ANY DAMAGE CAUSED TO THE UTILITIES DURING EXCAVATION/EXECUTION OF WORK SHALL BE REPAIRED BY THE CONTRACTOR AT NO EXTRA COST TO THE EMPLOYER IN CONSULTATION WITH THE CONCERNED UTILITY PROVIDER.
6. CONTRACTOR SHALL PREPARE AND SUBMIT, FOR ENGINEER'S REPRESENTATIVE APPROVAL, CROSS-SECTION @25m INTERVAL DULY DESIGN TEMPLATES, SHOP DRAWINGS FOR STRUCTURES, PAVEMENT MARKINGS (LOCATION, TYPE AND SIZE), ROAD SIGNS ETC. ON THE PLAN SHEETS FOR THE APPROVAL OF ENGINEER/ENGINEER'S REPRESENTATIVE BEFORE EXECUTION OF RELATED WORKS WITHOUT ANY EXTRA COST TO THE EMPLOYER.
7. SERVICE DUCTS SHALL BE PROVIDED AT JUNCTION LOCATIONS OR AT AN INTERVAL AS DIRECTED BY THE ENGINEER.
8. STRUCTURES SHOWN ON PLAN ARE SYMBOLIC. THE LENGTHS, SIZES, SLOPE, INVERT LEVELS, SKEW ANGLE AND OTHERS DETAILS OF THE PROPOSED STRUCTURES AS SHOWN ON DRAWINGS ARE TENTATIVE. THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS OF EACH STRUCTURE LOCATIONS WITH THE REQUIRED SKEW ANGLE AND OTHER DETAILS AS PER SITE REQUIREMENTS AND SHALL SUBMIT THEM TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION EXECUTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO CATER FOR ALL TEMPORARY TRAFFIC DIVERSION DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER INCLUDING DETOUR ROAD AND ITS MAINTENANCE, SPRINKLING OF WATER, GRADING AND COMPACTION WHEN AND WHERE REQUIRED WITHOUT ANY EXTRA COST TO EMPLOYER.
10. ROADWAY EXCAVATION MATERIAL SHALL BE UTILIZED IN THE MOST EFFECTIVE MANNER IN THE EMBANKMENT EVEN WITH BLENDING/ MIXING THE SUPERIOR MATERIALS (WHERE REQUIRED WITHOUT AT ANY EXTRA COST).ROADWAY SUITABLE EXCAVATION SHALL NOT BE DISPOSED OFF OUTSIDE RIGHT OF WAY WITHOUT WRITTEN APPROVAL OF THE ENGINEER BY EMPLOYER.

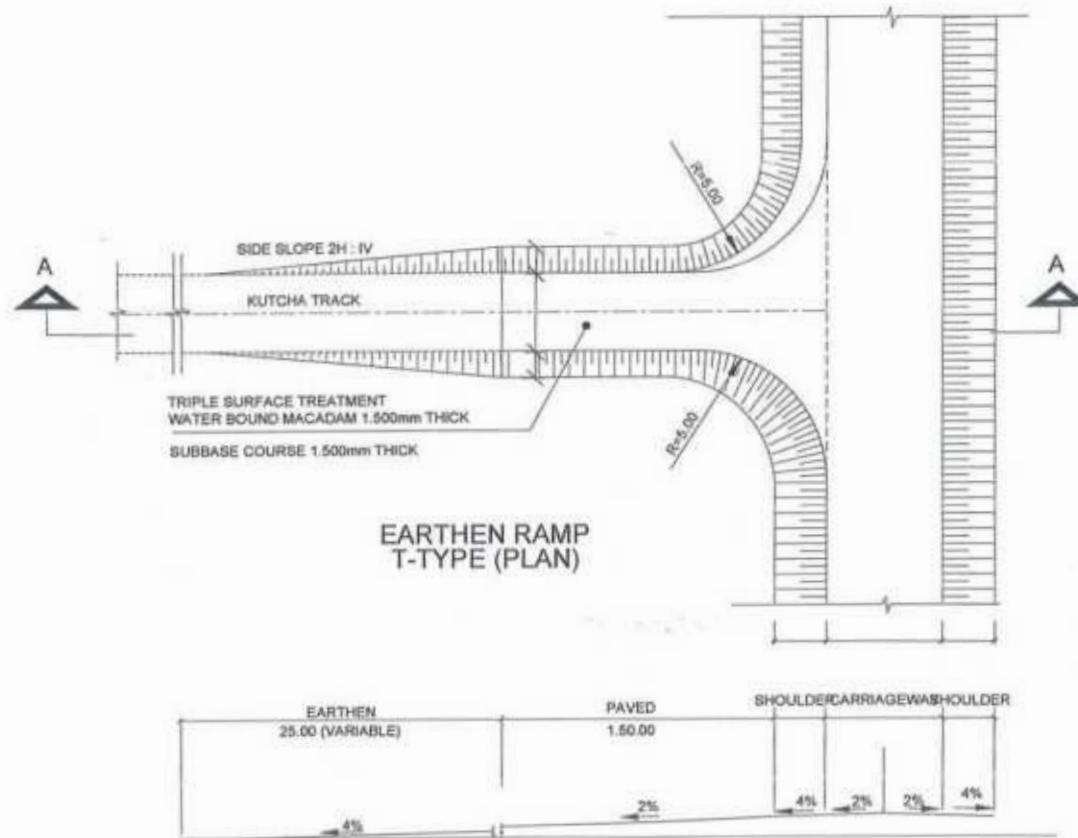
  
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 Provincial Road Improvement Project  
 C&W Department Peshawar



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET NO. OF TOTAL
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG. 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4	N.T.S	GENERAL NOTES
		a			DRAWN IMRAN		UTHROR TO THAL VIA BADGOI TOP	DATE:	
		b			CHECKED S.DURRAN		TOURISM ROAD	AUG.	

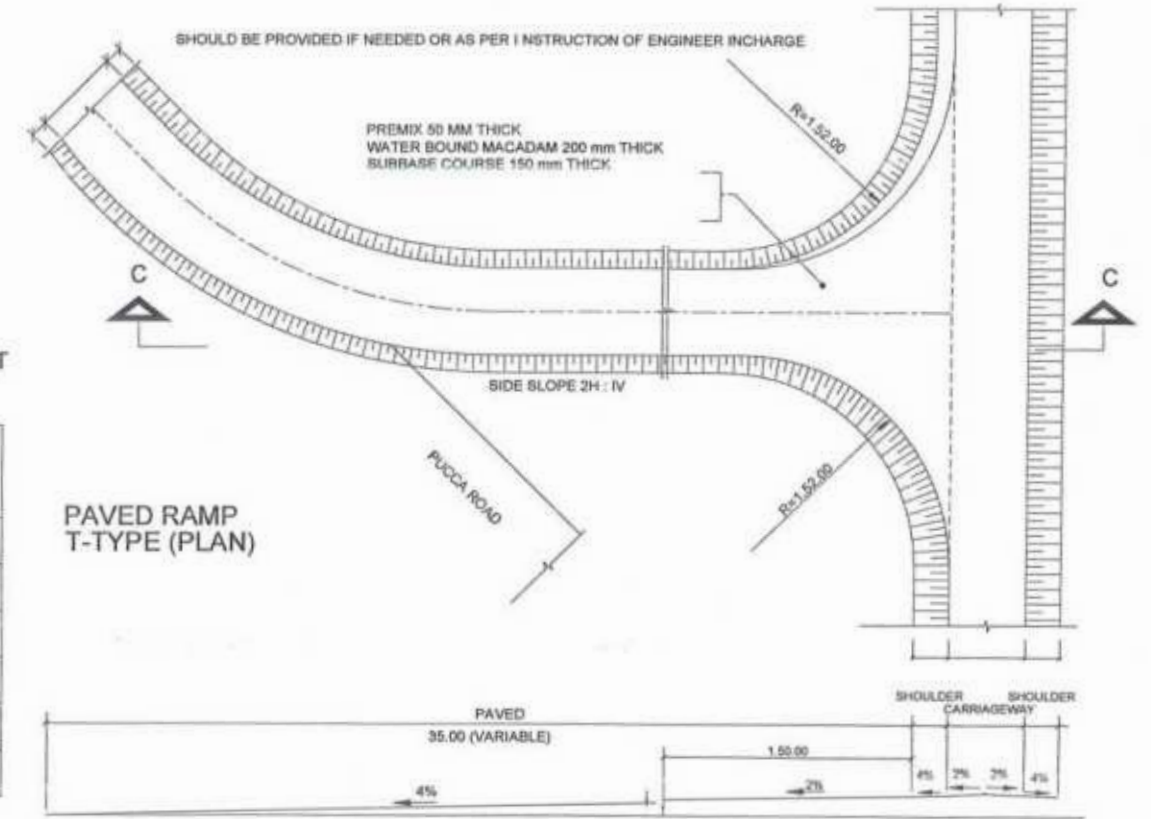
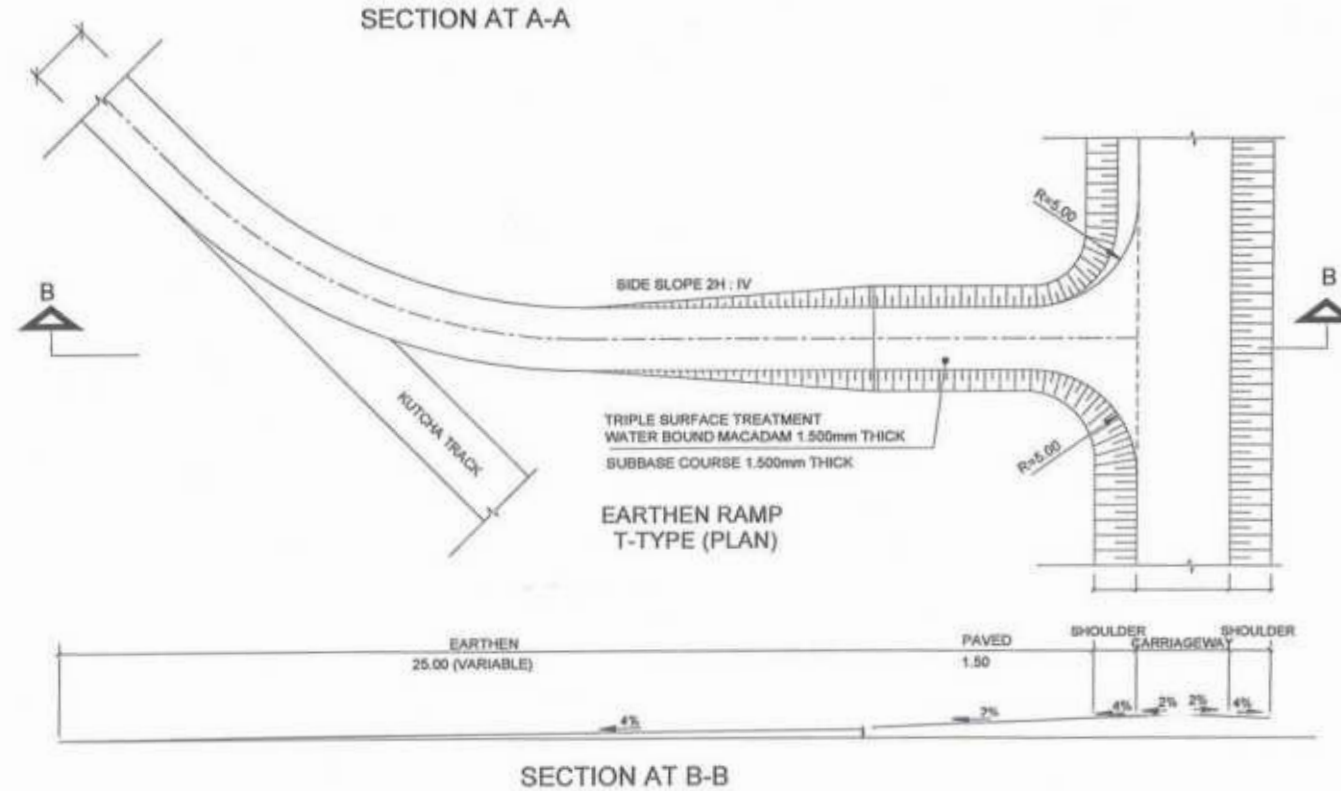


# MINOR JUNCTION DETAIL

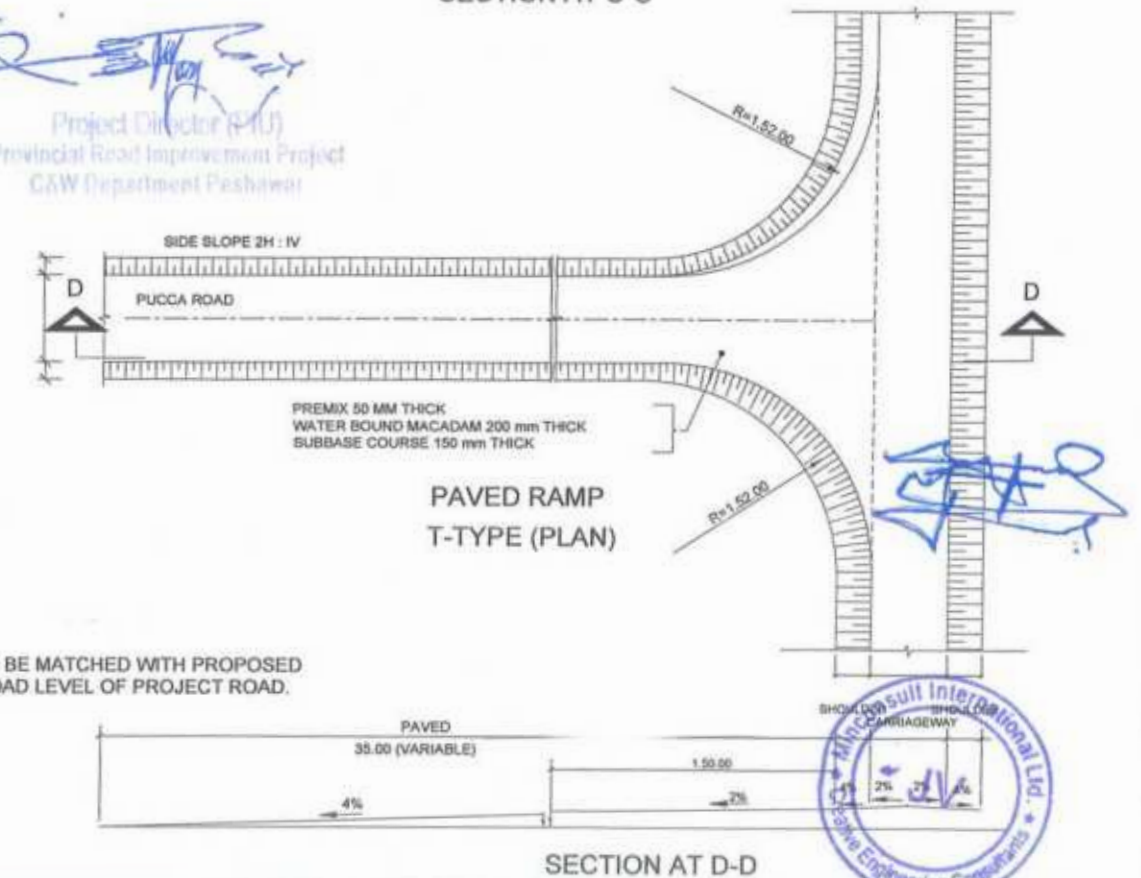


RECOMMENDED CURVE RADII FOR DIFFERENT ANGLES OF TURN

ANGLE OF TURN (DEGREES)	SIMPLE CURVE RADIUS (R) (METRES)
30	30
45	23
60	1.58
75	1.58
90	1.52 TO 1.55
>90	VARIABLE



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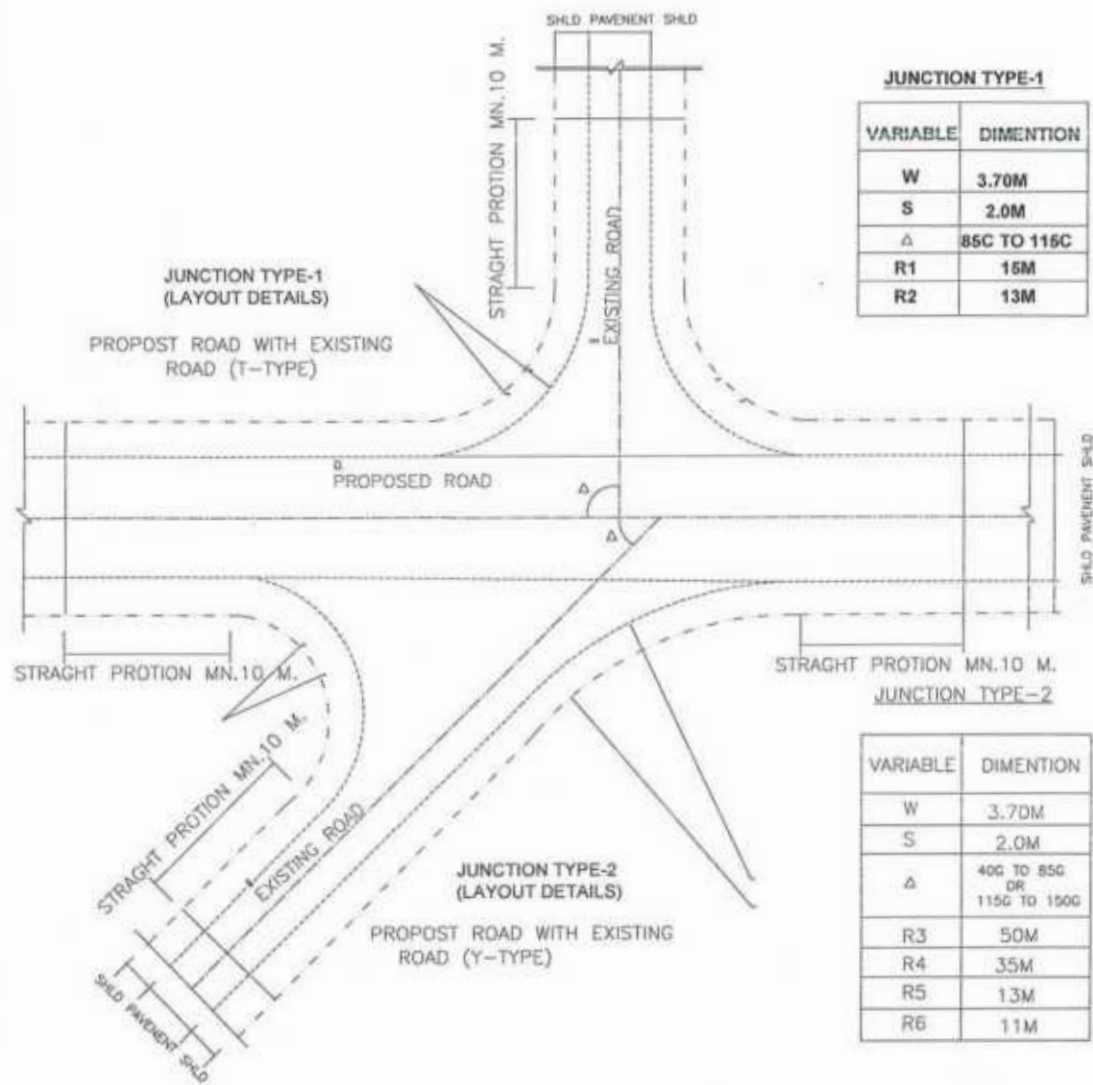


**NOTE:**  
1.5- RAMPS ARE TO BE MATCHED WITH PROPOSED FINISHED ROAD LEVEL OF PROJECT ROAD.

CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		0	AUG. 2024	TENDER DRAWINGS	G.DESIGNED	TANZEEL				
e			DRAWN	IMRAN	PROJECT IMPLEMENTATION UNIT (PIU)	DATE:	410			
b			CHECKED	S.DURRANI						



# MINOR JUNCTION DETAIL



**JUNCTION TYPE-1**

VARIABLE	DIMENTION
W	3.70M
S	2.0M
Δ	85C TO 115C
R1	15M
R2	13M

**JUNCTION TYPE-2**

VARIABLE	DIMENTION
W	3.70M
S	2.0M
Δ	40C TO 85C OR 115C TO 150C
R3	50M
R4	35M
R5	13M
R6	11M

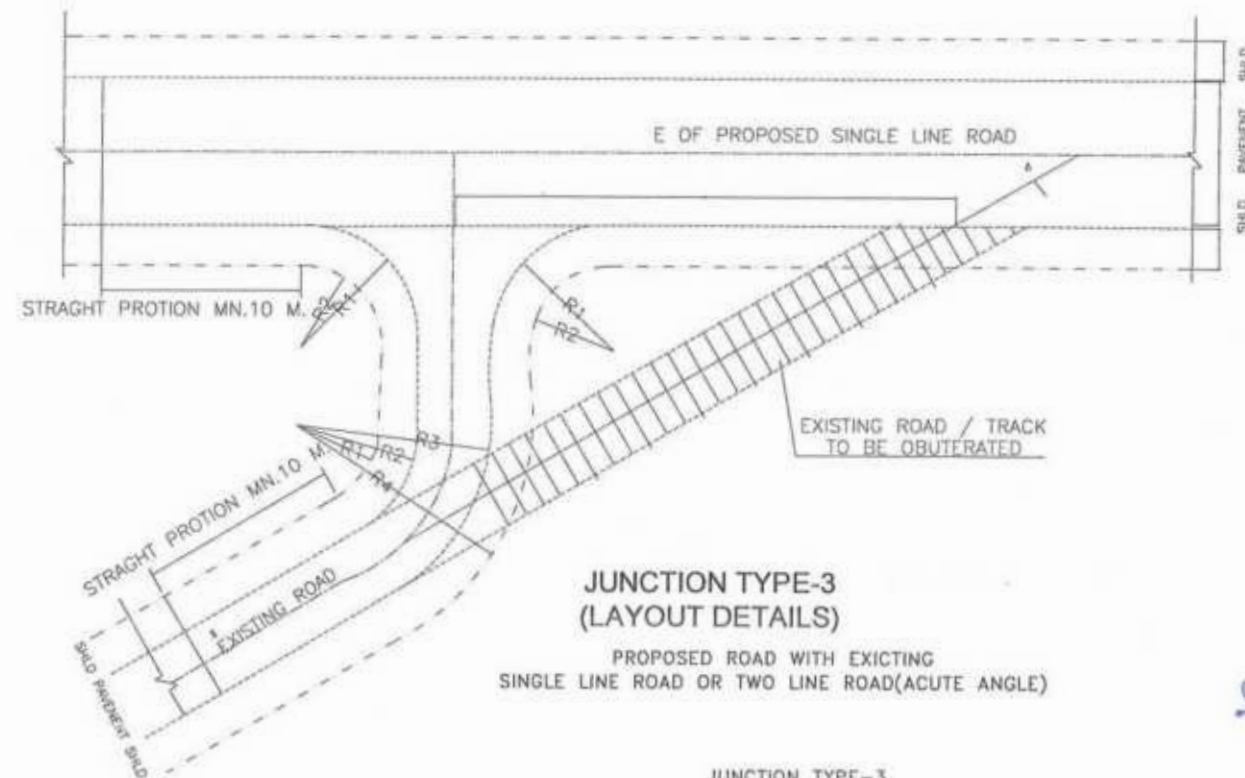
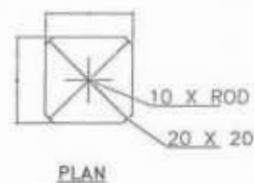
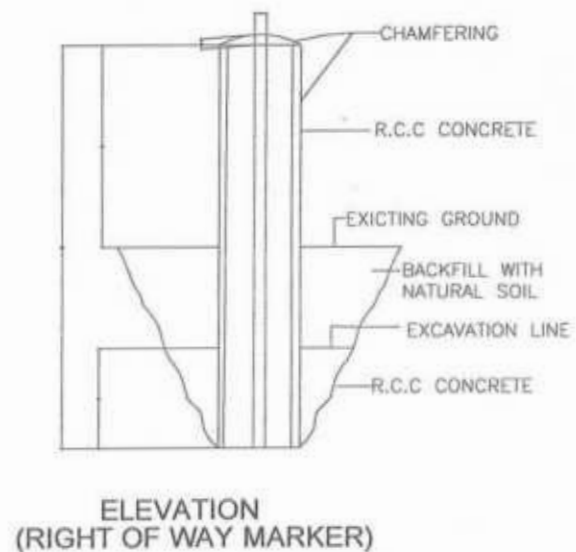
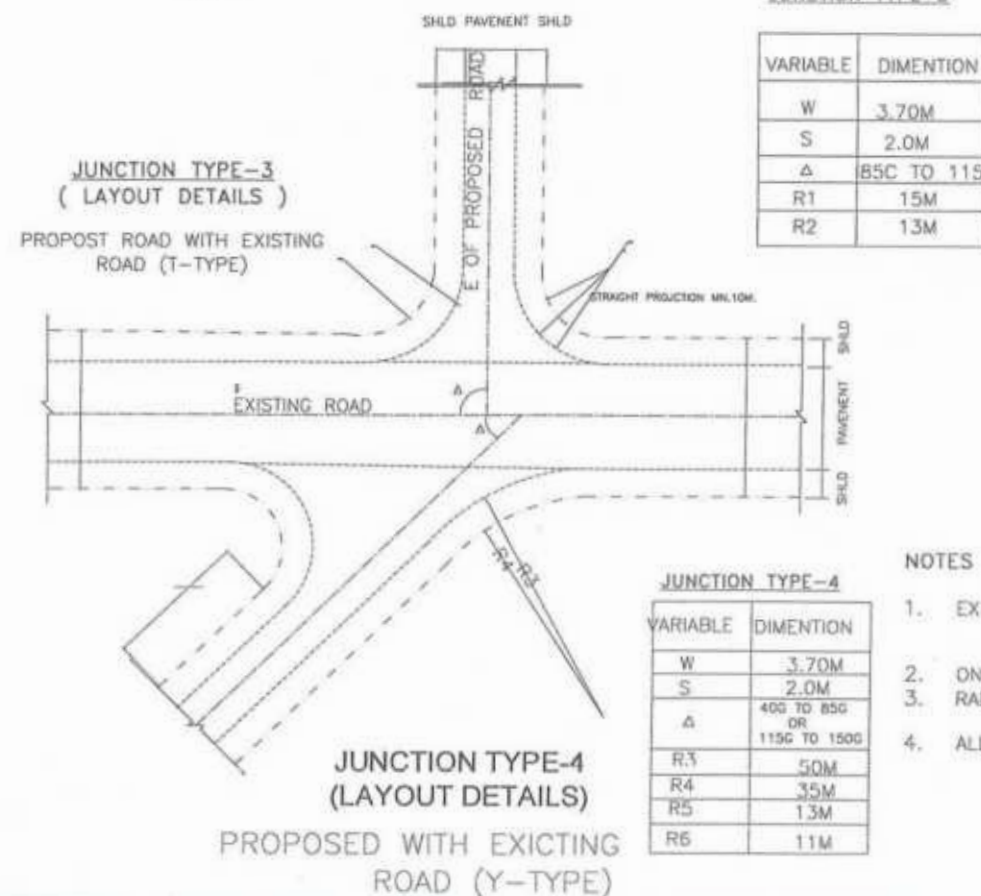


TABLE NO.5 APPLICABLE WHEN  
1 <50G OR >150G  
(JUNCTION WITH 2 LINE ROAD)(2) 40G OR 160C )  
JUNCTION WITH SINGLE ROAD)

VARIABLE	DIMENTION FOR JUSTIFICATION SINGLE LINE ROAD
W	3.70M
S	2.0M
R1	15M
R2	13M
R3	25M
R4	27M



**JUNCTION TYPE-3**

VARIABLE	DIMENTION
W	3.70M
S	2.0M
Δ	85C TO 115C
R1	15M
R2	13M

**JUNCTION TYPE-4**

VARIABLE	DIMENTION
W	3.70M
S	2.0M
Δ	40C TO 85C OR 115C TO 150C
R3	50M
R4	35M
R5	13M
R6	11M

**NOTES :**

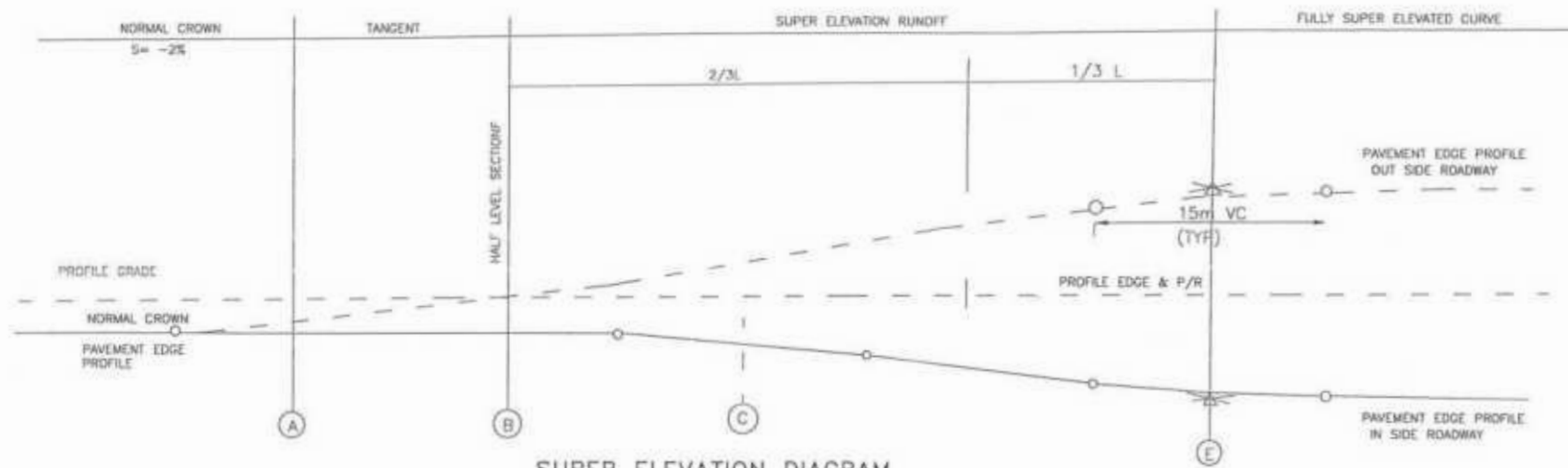
- EXISTING ROAD TO BE DISMANTLED WHERE IT MEETS PROPOSED ROAD AT THE JUNCTION LOCATION ONLY AND WILL BE RECONSTRUCTED ACCORDING TO JUNCTION DETAIL AND LIMITS.
- ON JUNCTION MIN. 10 METER STRAIGHT PORTION SHOULD BE PROVIDED.
- RAD# SHOWN ARE TYPICAL AND MAY BE ADJUSTED AS PER SITE CONDITIONS AS APPROVED BY THE ENGINEER.
- ALL DIMENSIONS ARE IN MILLI-METER UNLESS OTHERWISE SPECIFIED.

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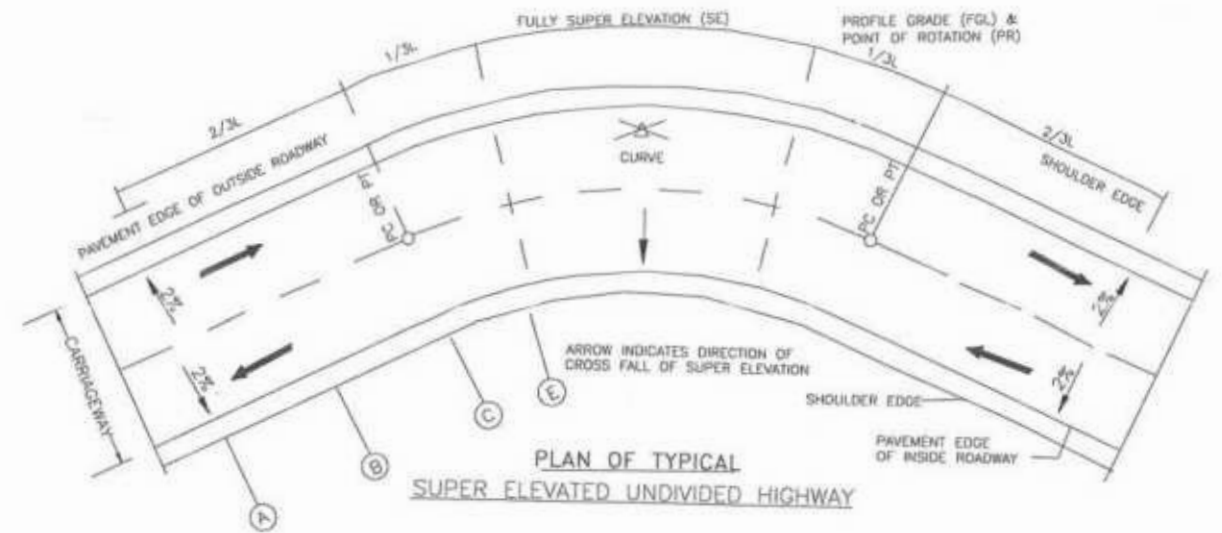


CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58825-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV 0	DATE AUG, 2024	DESCRIPTION TENDER DRAWINGS	NAMES: G.DESIGNED TANZEEL	PROJECT: KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	SCALE: N.T.S	SHEET CONTENT: MINOR JUNCTION DETAILS
		REV a			DRAWN IMRAN			DATE: 11/2	
		REV b			CHECKED S.DURRAH				





SUPER ELEVATION DIAGRAM ON SIMPLE RIGHT AND CURVES



PLAN OF TYPICAL SUPER ELEVATED UNDIVIDED HIGHWAY

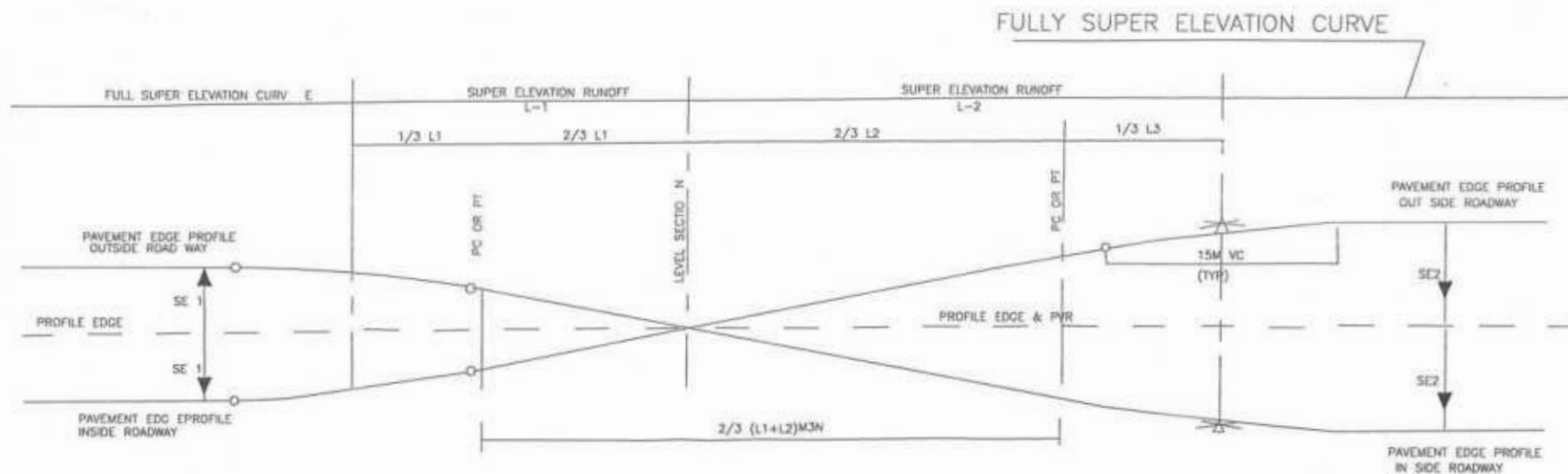
COMPUTATION OF SUPER ELEVATION

RADIUS	40 KPH		60 KPH	
	SE (m/m)	L (m/m)	SE (m/m)	L (m/m)
950				
800				
850	NC			
800	NC			
750	RC			
700	RC			
650	RC			
600	RC			
550	0.020	10	NC	
500	0.021	10	NC	
460	0.022	11	RC	
400	0.023	12	RC	
350	0.027	15	RC	
300	0.030	15	0.020	10
250	0.033	17	0.023	12
200	0.036	19	0.027	13
100	0.047	25	0.037	18
90	0.050	26	0.039	19
80	0.052	27	0.040	19
70	0.054	28	0.042	20
60	0.056	29	0.044	21
50	0.057	30	0.048	23
40	0.060	31	0.052	25
30			0.057	26
21			0.060	29

ROADWAY WIDENING

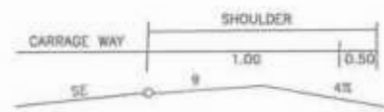
RADIUS (M)	SE (m/m)	L(M)	W(M)
15.00	0.06	32.00	1.20
20.00	0.060	32.00	1.20
25.00	0.060	32.00	1.20
10.00	0.060	32.00	1.20
35.00	0.060	32.00	1.20
40.00	0.060	32.00	1.20
45.00	0.060	32.00	1.20
15.00	0.060	32.00	1.20
55.00	0.060	32.00	1.20
60.00	0.060	32.00	1.20
70.00	0.060	32.00	1.20

RADIUS (M)	SE (m/m)	L(M)	W(M)
80.00	0.060	32.00	1.00
90.00	0.060	32.00	0.80
100.00	0.060	32.00	0.80
120.00	0.060	32.00	0.60
150.00	0.060	32.00	0.60
200.00	0.058	30.00	-
300.00	0.050	25.00	-
400.00	0.043	22.00	-
500.00	-	-	-
600.00	-	-	-
700.00	-	-	-



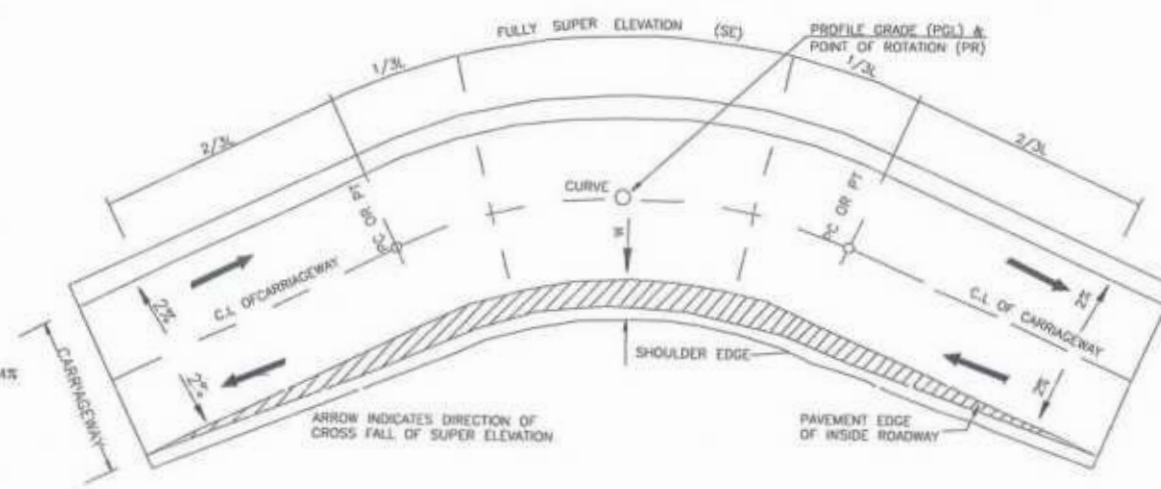
SUPER ELEVATION DIAGRAM ON REVERSE CURVES

SHOULDER	CARRIAGEWAY		SHOULDER
2.00	2.435	2.435	2.00
-4%	-2%	-2%	-4%
-4%	0%	-2%	-4%
-3%	+2%	+2%	-4%
-2%	+2%	-2%	-4%
-1%	+3%	-3%	-4%
+0%	+4%	+4%	-4%
+1%	+5%	-5%	-3%
+2%	+6%	-6%	-4%



CROWNING AND ROUNDING OF OUTER SHOULDER WHERE > 4%

- 1 ROLL OVER ALGEBRAIC DIFFERENCE SE AND NORMAL SHOULDER SLOPE i.e 4% AT PAVEMENT EDGE NOT TO BE EXCEED 4%
- 2 WHERE THE DIFFERENCE EXCEED 6% THE ABOVE CROWNING OF SHOULDERS SHOULD BE USED WITH  $g = (s - SE) \%$

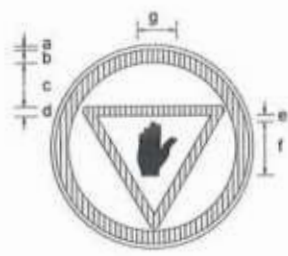


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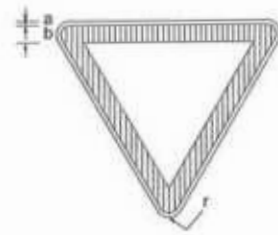
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 59535-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0 DATE: AUG, 2024 DESCRIPTION: TENDER DRAWINGS	NAMES: G. DESIGNED: TANZEEL DRAWN: IMRAH CHECKED: S. DURRAN	PROJECT: KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	SCALE: N.T.S. DATE: AUG	SHEET CONTENT: SUPER ELEVATION DETAILS
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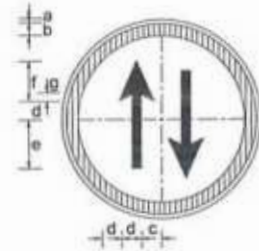
STOP SIGN  
R-1  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	16.0	18.70
d	5.5	6.4
e	3.5	4.1
f	30.0	35.0
g	18.5	21.80



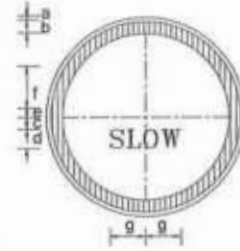
GIVE WAY SIGN  
R-2  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
r	3.5	4.1



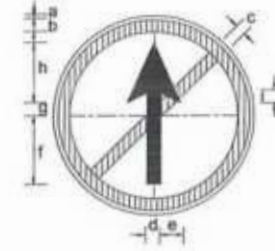
PRIORITY ROAD  
SIGN R-3  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	10.5	12.20
d	7.0	8.2
e	26.0	30.3
f	19.0	22.2
g	2.0	2.3



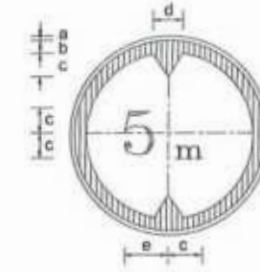
SLOW SIGN  
R-4  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	14.5	16.9
e	2.0	2.3
f	24.5	28.6
g	27.6	31.5



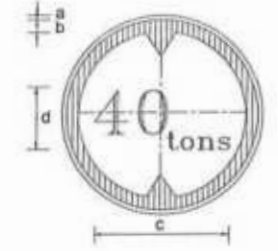
NO ENTRY SIGN  
R-6  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	5.5	6.4
d	8.0	9.3
e	9.0	10.5
f	30.5	35.6
g	7.0	8.2
h	23.5	27.4
i	4.5	5.2



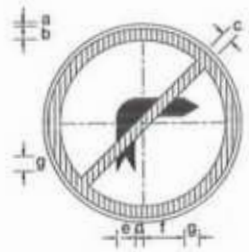
HEIGHT LIMIT SIGN  
R-16  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	16.5	19.2
d	26.0	30.3
e	20.0	23.3



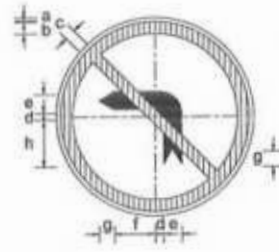
GROSS WEIGHT LIMIT SIGN  
R-18  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	49.0	57.2
d	40.0	46.7



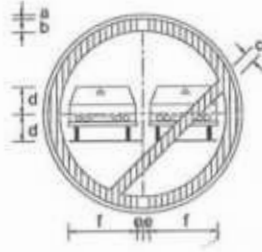
NO RIGHT TURN SIGN  
R-20  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	5.5	6.4
d	6.0	7.0
e	10.0	11.6
f	25.0	29.2
g	5.0	5.8
h	30.0	35.0



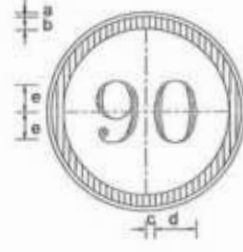
NO LEFT TURN SIGN  
R-21  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	5.5	6.4
d	6.0	7.0
e	10.0	11.6
f	25.0	29.2
g	5.0	5.8
h	30.0	35.0



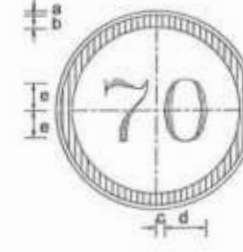
OVERTAKING PROHIBITED SIGN  
R-23  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	5.5	6.4
d	12.0	14.0
e	3.0	3.5
f	29.5	34.4



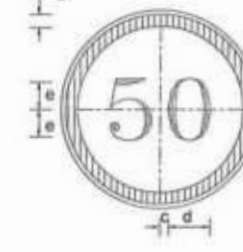
SPEED LIMIT SIGN  
R-25-1  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	23.0	26.8
e	20.0	23.3



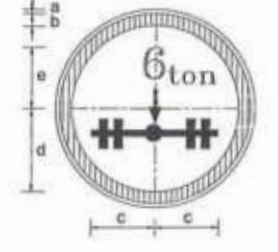
SPEED LIMIT SIGN  
R-25-2  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	23.0	26.8
e	20.0	23.3



SPEED LIMIT SIGN  
R-25-3  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	23.0	26.8
e	20.0	23.3



AXLE WEIGHT LIMIT SIGN  
R-19  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	28.0	32.7
d	23.0	26.8
e	32.0	37.3



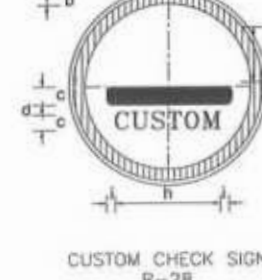
SPEED LIMIT SIGN  
R-25-4  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	23.0	26.8
e	20.0	23.3



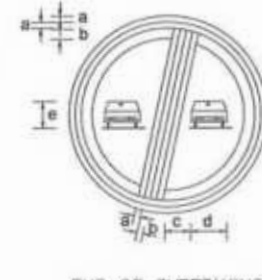
POLICE CHECK POST SIGN  
R-27  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	7.5	8.8
d	3.0	3.5
e	10.0	11.7
f	27.5	32.1
g	29.0	33.8
h	28.0	32.7



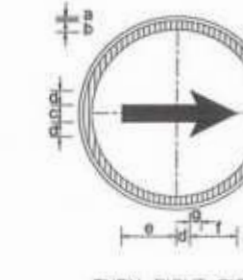
CUSTOM CHECK SIGN  
R-28  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	6.5	7.6
c	8.0	9.3
d	4.0	4.7
e	11.0	12.8
f	31.0	36.2
g	41.0	47.8
h	52.0	60.7
i	7.5	8.7



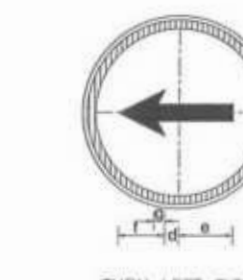
END OF OVERTAKING  
RESTRICTION SIGN  
R-31  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	1.7	2.0
c	10.0	11.7
d	25.0	29.2
e	21.0	24.5



TURN RIGHT SIGN  
R-34  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	4.0	4.7
c	8.0	9.3
d	9.0	10.5
e	32.0	37.3
f	23.0	26.8
g	4.5	5.2



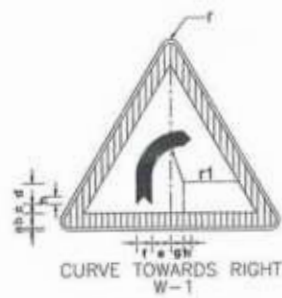
TURN LEFT SIGN  
R-35  
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	4.0	4.7
c	8.0	9.3
d	9.0	10.5
e	32.0	37.3
f	23.0	26.8
g	4.5	5.2

- NOTES:
- 1 - For Sign Locations Refer To Plan Sheets.
  - 2 - Final Location To Be Decided By The Engineer As Per Site.
  - 3 - Some Of The Sign Faces As Shown Are Reversible And The Actual Face Detail Shall Be Identified Prior To Placing Any
  - 4 - All Signs To Have High Intensity Reflective Sheetings In Accordance With The Relevant Clause In The Specification.
  - 5 - Sign Legends Shall Be Approved By Engineer And Client.

CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		0	AUG. 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL DRAWN IMRAN CHECKED S.DURRAMI	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	N.T.S DATE: AUG.	TRAFFIC SIGNS DETAILS

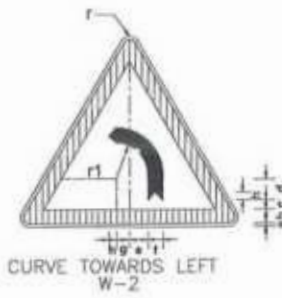




CURVE TOWARDS RIGHT  
W-1

DIMENSIONS (cm)

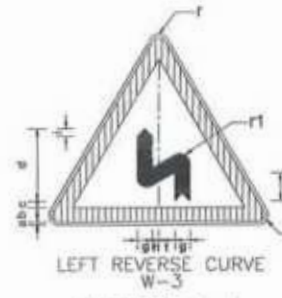
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	11.5	13.4
e	8.5	9.9
f	7.0	8.2
g	6.0	7.0
h	3.5	4.1
r1	12.5	14.6



CURVE TOWARDS LEFT  
W-2

DIMENSIONS (cm)

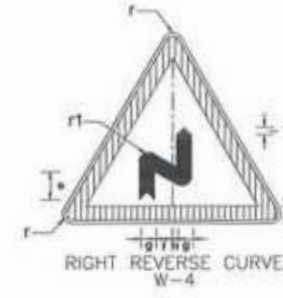
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	11.5	13.4
e	8.5	9.9
f	7.0	8.2
g	6.0	7.0
h	3.5	4.1
r1	12.5	14.6



LEFT REVERSE CURVE  
W-3

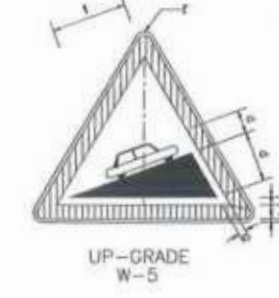
DIMENSIONS (cm)

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	33.0	38.5
e	14.0	16.3
f	8.0	9.3
g	7.0	8.2
h	2.0	2.3
i	3.5	4.1
r1	4.5	5.2



RIGHT REVERSE CURVE  
W-4

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	33.0	38.5
e	14.0	16.3
f	8.0	9.3
g	7.0	8.2
h	2.0	2.3
i	3.5	4.1
R1	4.5	5.2



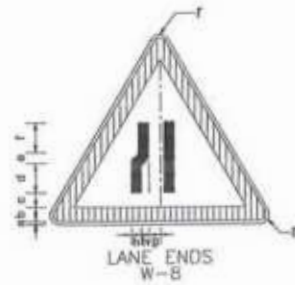
UP-GRADE  
W-5

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.5	4.1
d	23.5	27.4
e	11.5	13.4
f	33.0	38.5



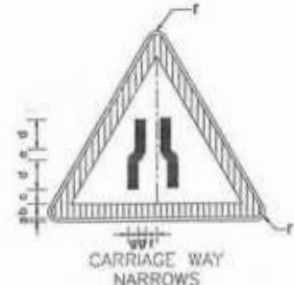
DOWN-GRADE  
W-6

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.5	4.1
d	23.5	27.4
e	11.5	13.4
f	33.0	38.5



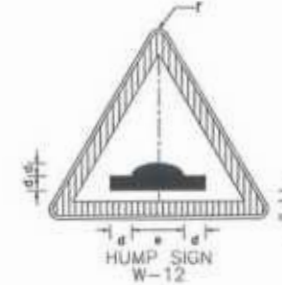
LANE ENDS  
W-8

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	14.0	16.3
e	7.2	8.4
f	11.3	13.2
g	3.5	4.1
h	33.0	5.8



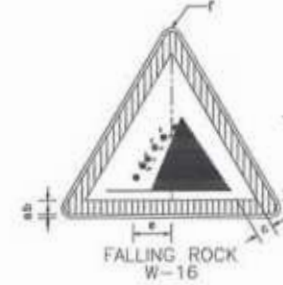
CARRIAGE WAY  
NARROWS  
W-8

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.5	4.1
d	10.0	11.7
e	14.0	16.3
f	2.5	2.9
g	5.0	5.8



HUMP SIGN  
W-12

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	7.0	8.2
e	32.0	37.3



FALLING ROCK  
W-16

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.5	4.1
d	38.0	44.3
e	12.0	14.3



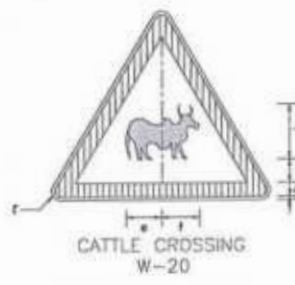
PEDESTRIAN CROSSING  
W-17

PARTS	SIGN SIZE	
	90cm	105cm
r	2.9	3.5
a	0.8	1.0
b	5.4	6.5
c	2.1	2.5
d	35.8	43.0
e	19.2	23.0



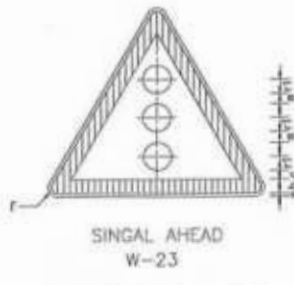
CHILDREN CROSSING  
W-18

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.5	5.3
d	28.5	33.3
e	37.5	43.8



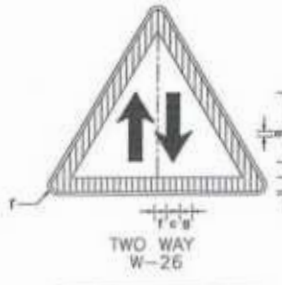
CATTLE CROSSING  
W-20

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	2.0	2.3
d	22.0	25.7
e	18.5	21.6
f	17.5	20.4



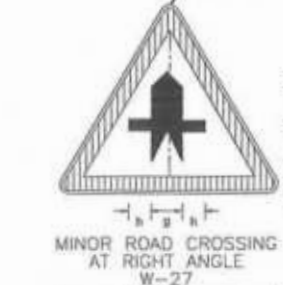
SINGAL AHEAD  
W-23

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	2.5	2.9
R1	6.5	7.6



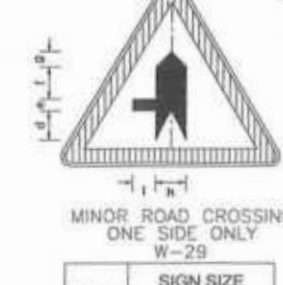
TWO WAY  
W-26

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	9.0	10.5
e	19.0	22.2
f	5.0	5.8
g	3.5	4.1



MINOR ROAD CROSSING  
AT RIGHT ANGLE  
W-27

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	15.0	17.5
e	6.0	7.0
f	11.0	12.6
g	13.5	15.7
h	8.5	9.9



MINOR ROAD CROSSING  
ONE SIDE ONLY  
W-29

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	13.5	15.6
e	5.5	6.4
f	15.0	17.5
g	7.0	8.2
h	14.0	16.3
i	10.5	12.3



MINOR ROAD CROSSING  
ONE SIDE ONLY  
W-29A

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	13.5	15.6
e	5.5	6.4
f	15.0	17.5
g	7.0	8.2
h	14.0	16.3
i	10.5	12.3

Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar

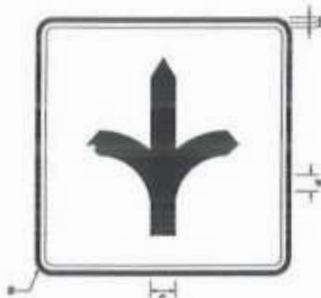


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 88835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE:	SHEET NO/REV	
		0	AUG. 2024	TENDER DRAWINGS	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	N.T.S	TRAFFIC SIGNS DETAILS
		1			DRAWN	IMRAN			DATE:	
		2			CHECKED	S.DURRAN			APP:	



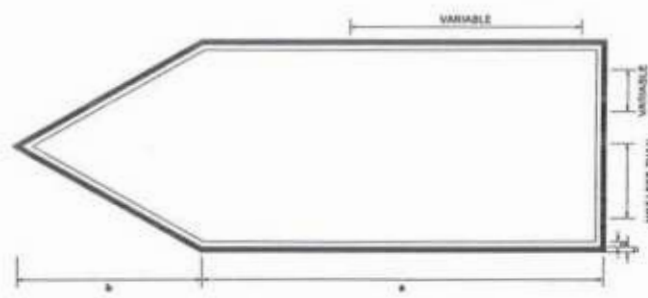






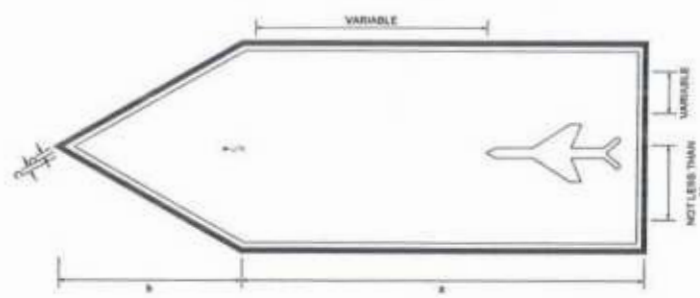
DESTINATION SIGN  
I-1

PARTS	SIGN SIZE	
	120 x 120	240 x 240
a	4.5	6.0
b	1.8	2.4
c	12.0	16.0
d	22.5	30.0



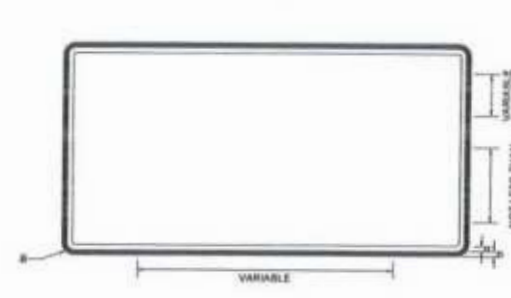
DIRECTION SIGN  
I-3

PARTS	SIGN SIZE	
	225 x 90	300 x 120
a	180.0	240.0
b	45.0	60.0
c	1.8	2.4



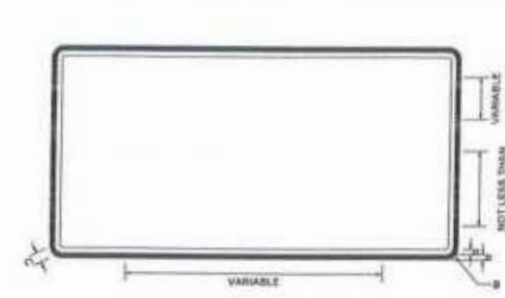
DIRECTION SIGN  
I-4

PARTS	SIGN SIZE	
	225 x 90	300 x 120
a	180.0	240.0
b	45.0	60.0
c	1.8	2.4



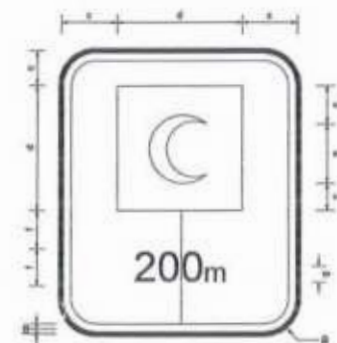
BEGINNING OF MUNICIPAL LIMIT  
I-5

PARTS	SIGN SIZE	
	225 x 135	300 x 180
a	4.5	6.0
b	1.8	2.4



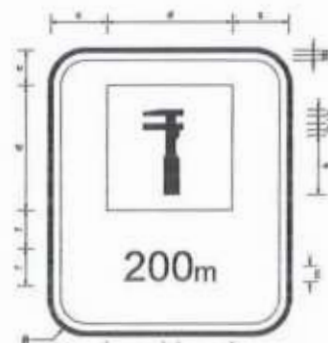
END OF MUNICIPAL LIMIT  
I-6

PARTS	SIGN SIZE	
	225 x 135	300 x 180
a	4.5	6.0
b	1.8	2.4
b	20.3	27.0



FIRST AID STATION  
I-9

PARTS	SIGN SIZE	
	120 x 180	
a	6.0	
b	2.4	
c	20.0	
d	80.0	
e	40.0	
f	26.0	
g	14.0	



AUTO REPAIR SHOP  
I-10

PARTS	SIGN SIZE	
	120 x 180	
a	6.0	
b	2.4	
c	20.0	
d	80.0	
e	30.0	
f	15.0	
g	35.0	
h	5.0	
i	11.0	
j	7.0	
k	44.0	
l	26.0	
m	14.0	



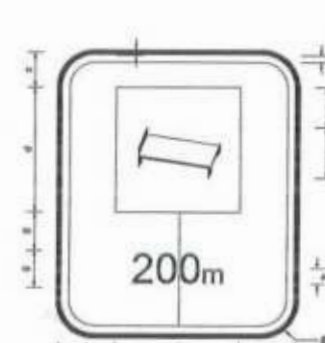
PHONE SERVICE  
I-11

PARTS	SIGN SIZE	
	120 x 180	
a	6.0	
b	2.4	
c	20.0	
d	80.0	
e	26.0	
f	14.0	



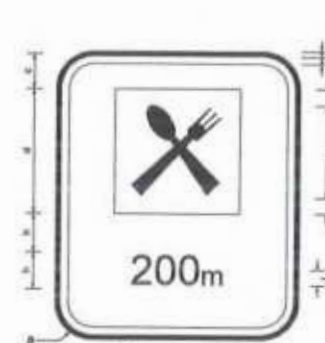
PETROL PUMP  
I-12

PARTS	SIGN SIZE	
	120 x 180	
a	6.0	
b	2.4	
c	20.0	
d	80.0	
e	4.0	
f	60.0	
g	6.0	
h	12.0	
i	17.0	
j	26.0	
k	14.0	



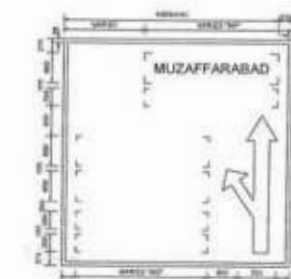
HOTEL / MOTEL  
I-13

PARTS	SIGN SIZE	
	90 x 135	120 x 180
a	4.5	6.0
b	1.8	2.4
c	15.0	20.0
d	60.0	80.0
e	18.8	25.0
f	24.0	32.0
g	19.5	26.0
h	10.5	14.0

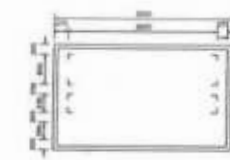


RESTAURANT  
I-14

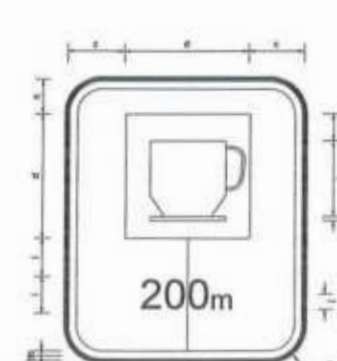
PARTS	SIGN SIZE	
	90 x 135	120 x 180
a	4.5	6.0
b	1.8	2.4
c	15.0	20.0
d	60.0	80.0
e	51.0	68.0
f	12.0	16.0
g	36.0	48.0
h	19.5	26.0
i	10.5	14.0



JUNCTION SIGN  
(250m SHORT OF JUNCTION)

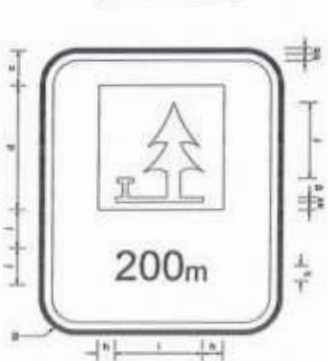


DESTINATION SIGN  
(200m OF LIMITS OF TOWN)



CAFETERIA  
I-15

PARTS	SIGN SIZE	
	120 x 180	
a	6.0	
b	2.4	
c	20.0	
d	80.0	
e	16.0	
f	34.0	
g	8.0	
h	64.0	
i	26.0	
j	14.0	



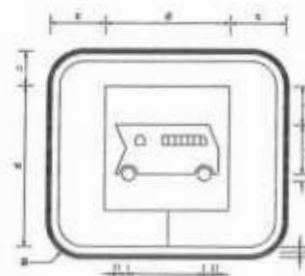
PICNIC SITE  
I-16

PARTS	SIGN SIZE	
	90 x 135	120 x 180
a	4.5	6.0
b	1.8	2.4
c	15.0	20.0
d	60.0	80.0
e	3.0	4.0
f	42.0	56.0
g	11.3	15.0
h	6.0	8.0
i	48.0	64.0
j	19.5	26.0
k	10.5	14.0



HOSPITAL SIGN  
I-22

PARTS	SIGN SIZE	
	90 x 90	120 x 120
a	4.5	6.0
b	1.8	2.4
c	67.5	90.0
d	18.0	24.0
e	22.5	30.0
f	30.0	40.0



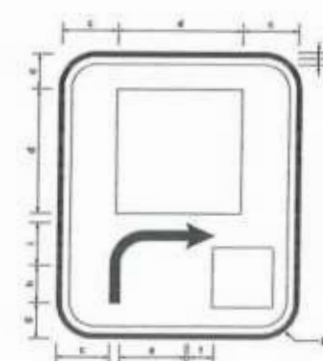
BUS STOP  
I-25

PARTS	SIGN SIZE	
	120 x 120	
a	6.0	
b	2.4	
c	20.0	
d	80.0	
e	8.0	
f	26.0	
g	4.0	
h	12.0	
i	48.0	



PARKING  
I-26

PARTS	SIGN SIZE	
	120 x 120	
a	6.0	
b	2.4	
c	30.0	
d	13.0	
e	8.0	
f	29.0	
g	40.0	



GENERAL INFORMATION  
I-27

PARTS	SIGN SIZE	
	90 x 135	120 x 180
a	4.5	6.0
b	1.8	2.4
c	15.0	20.0
d	60.0	80.0
e	12.0	16.0
f	20.3	27.0
g	10.5	14.0
h	28.5	38.0
i	18.0	24.0

Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar

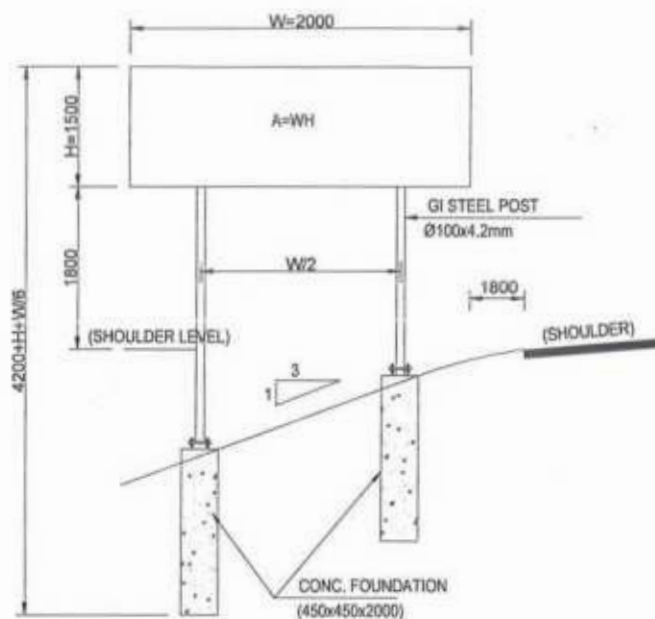
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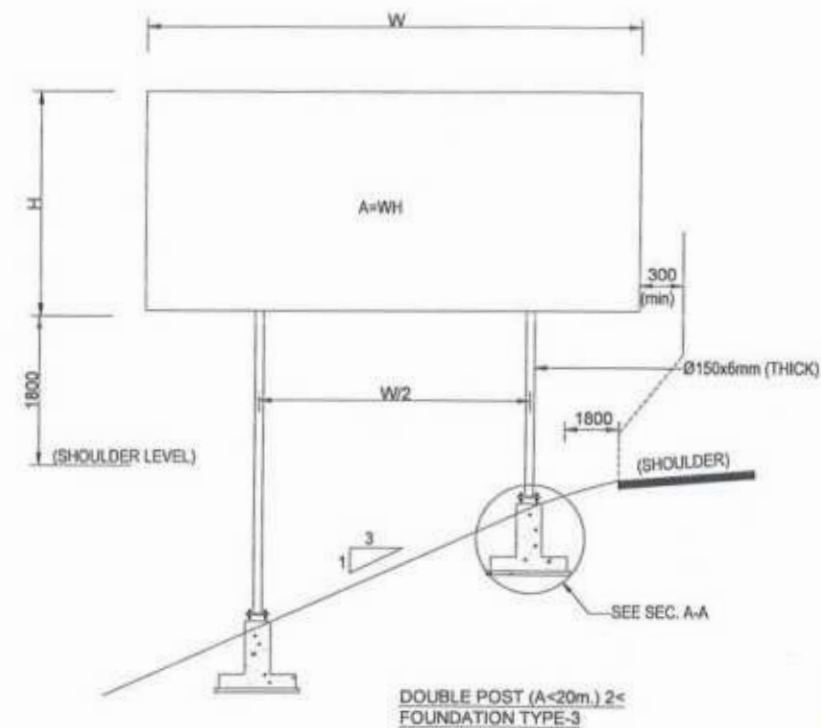
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA</p> <p>COMMUNICATION &amp; WORKS DEPARTMENT</p> <p>PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P)</p> <p>J.V.</p> <p>CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:			
		0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED			TANZEEL		KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	N.T.S
		0			DRAWN			IMRAN				DATE:
		b			CHECKED			S.DURRAN				ATTC



**2 SINGLE POST**  
(A<1.5m.) 2<  
FOUNDATION TYPE-1

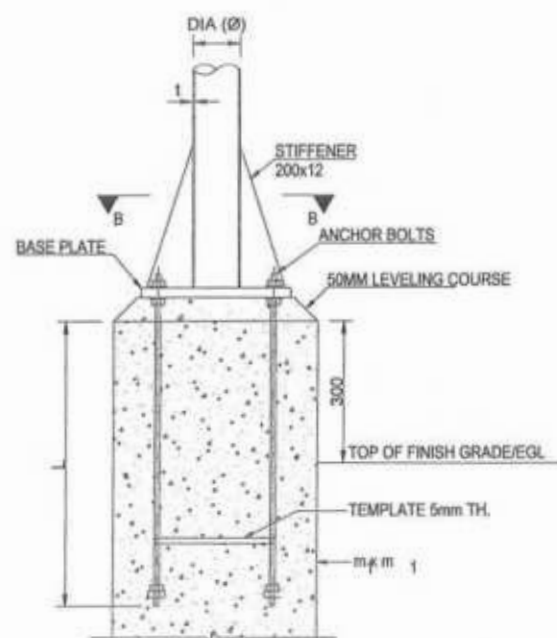


**DOUBLE POST (A<3m.)**  
2<FOUNDATION TYPE-2

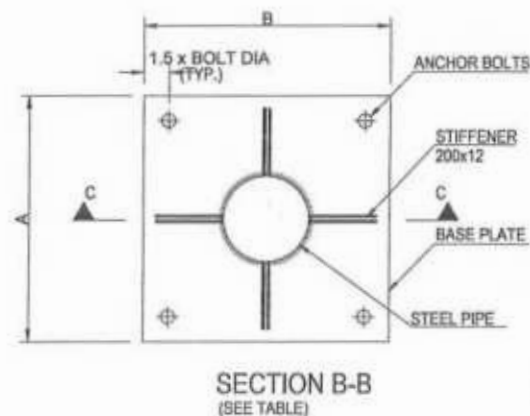


**DOUBLE POST (A<20m.) 2<**  
FOUNDATION TYPE-3

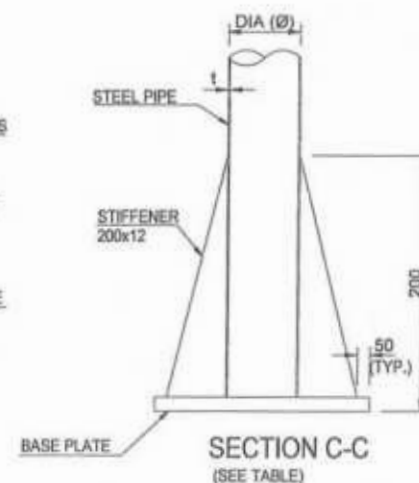
Project Director (P.W.)  
Provincial Road Improvement Project  
C&W Department Peshawar



**BASE PLATE &**  
**ANCHORAGE ELEVATION**



**SECTION B-B**  
(SEE TABLE)



**SECTION C-C**  
(SEE TABLE)

**NOTES:-**

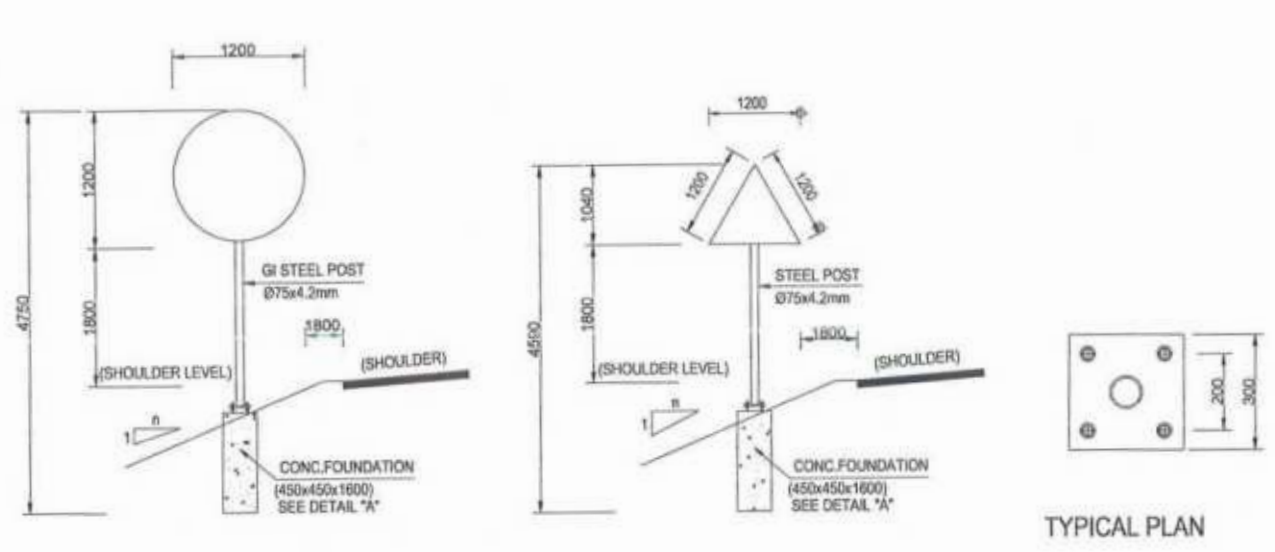
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
2. FABRICATION GALVANIZING AND ERECTION TO BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
3. AFTER FABRICATION AND BEFORE GALVANIZING THE TRIAL ASSEMBLY OF COMPLETE STRUCTURE SHALL BE DONE.
4. ALL COMPONENTS TO BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A123. GALVANIZATION THICKNESS SHALL NOT BE LESS THAN 90 MICRONS.
5. BASE PLATES SHALL BE SET LEVEL TO CORRECT ELEVATION WITH THE HELP OF LEVELING NUTS.
6. STEEL STRUCTURE SHALL BE ASTM A36, OR EQUIVALENT.
7. BOLTS (GALVANIZED) SHALL BE ISO 898-1, GRADE 8.8, OR EQUIVALENT.
8. NUTS (GALVANIZED) SHALL BE ISO 898-2, GRADE 8, OR EQUIVALENT.
9. PLAIN WASHERS (GALVANIZED) SHALL BE ISO 7089, GRADE A CLASS 200, OR EQUIVALENT. ALL BOLTS SHALL BE FIXED WITH ONE PLAIN WASHER.
10. ANCHOR RODS SHALL BE G60 DEFORMED BARS IN ACCORDANCE WITH ASTM A615.
11. WELDING ELECTRODES SHALL BE E 60 XX.
12. SIGN PANELS SHALL BE MADE OF ALUMINUM ALLOY PLATES OF MIN. 3mm TH.
13. SIGN PANELS SHOULD BE RIVETED TO STEEL MEMBER OF SUPPORTING FRAME.
14. ALL STRUCTURAL CONCRETE SHALL HAVE MINIMUM CYLINDER STRENGTH EQUAL TO 3000psi AT 28 DAYS.
15. ALL REINFORCEMENT SHALL BE GRADE 60 DEFORMED IN ACCORDANCE WITH ASTM A-615 SPECIFICATION.

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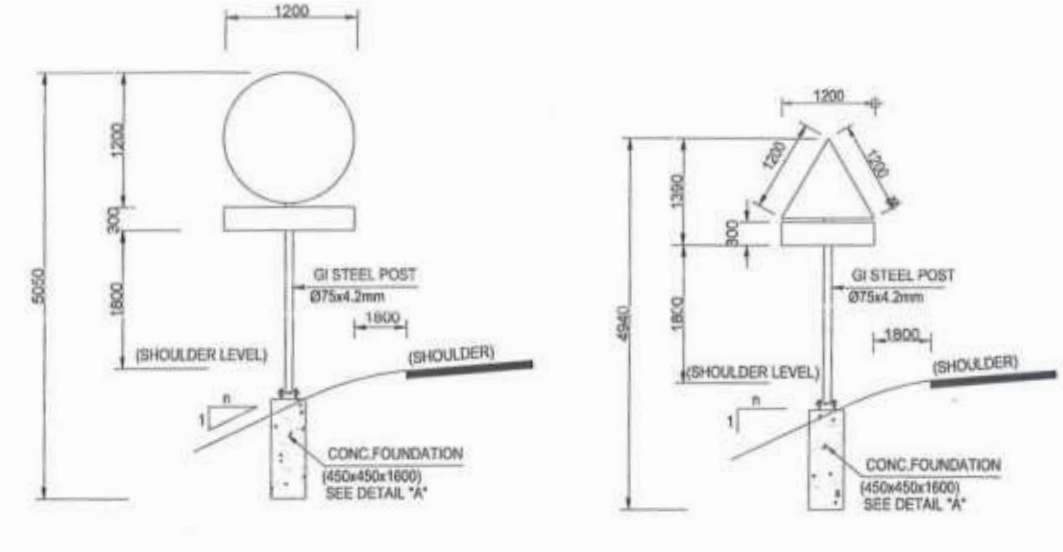


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		0	AUG, 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL DRAWN IMRIAN CHECKED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	N.T.S DATE: AUG.	TRAFFIC SIGNS DETAILS

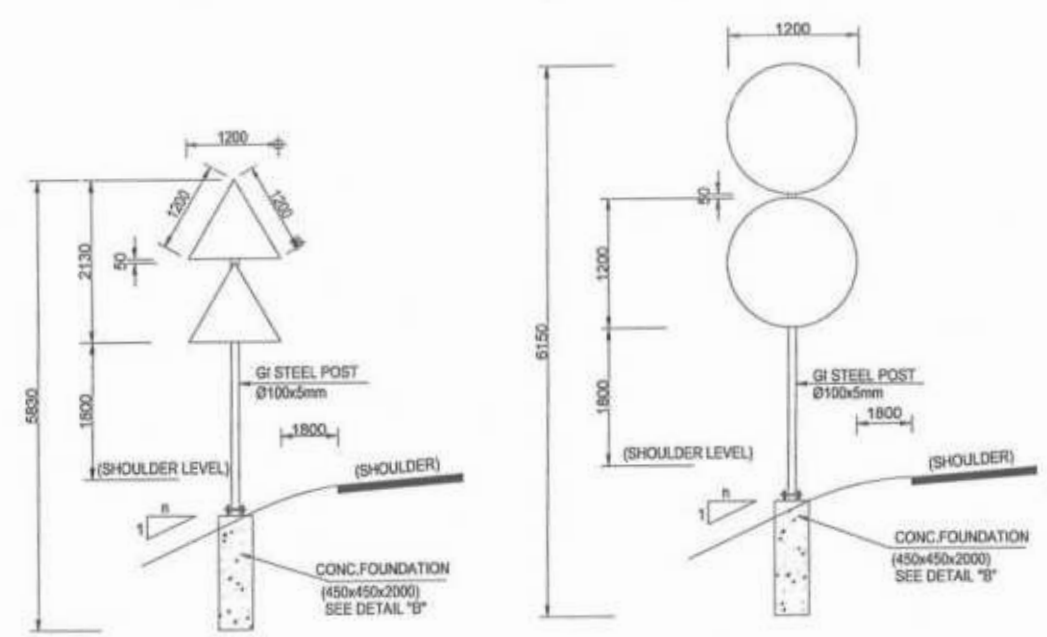




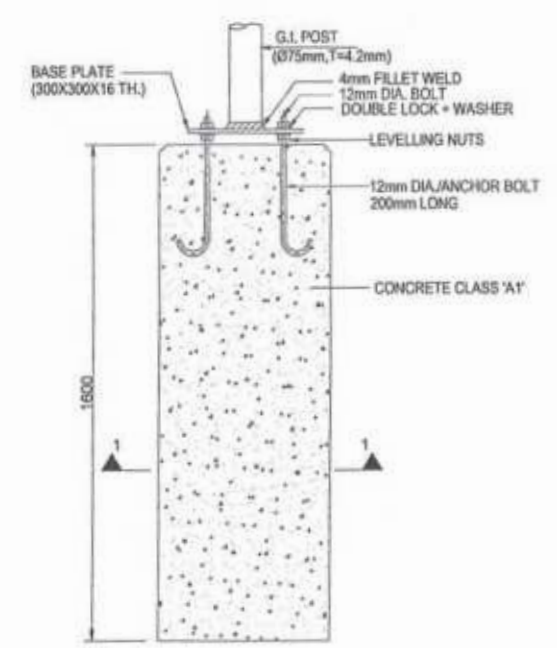
SINGLE SIGNS  
FOUNDATION TYPE-1



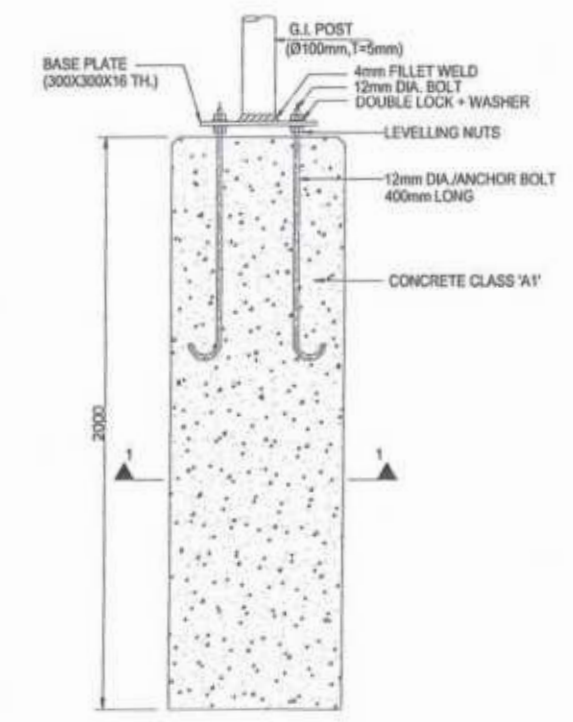
SINGLE SIGNS WITH ADDITIONAL PLATE  
FOUNDATION TYPE-1



DOUBLE SIGNS  
FOUNDATION TYPE-2



DETAIL 'A'  
CONCRETE FOUNDATION  
(TYPE-1)



DETAIL 'B'  
CONCRETE FOUNDATION  
(TYPE-2)

Project Director (PIL)  
Provincial Road Improvement Project  
G&W Department Peshawar

*[Handwritten signature]*

NOTE:-

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SPECIFIED OTHERWISE.
2. ALL STRUCTURAL CONCRETE SHALL HAVE MINIMUM CYLINDER STRENGTH EQUAL TO 30,000psi AT 28 DAYS.
3. SIGN PANELS SHALL BE MADE OF ALUMINUM ALLOY PLATES OF MIN. 3mm TH.
4. SIGN PANELS SHOULD BE RIVETED TO STEEL MEMBER OF SUPPORTING FRAME.



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	N.T.S DATE:	TRAFFIC SIGNS DETAILS
		a			DRAWN	IMRAN								
b			CHECKED	S.DURRANI										

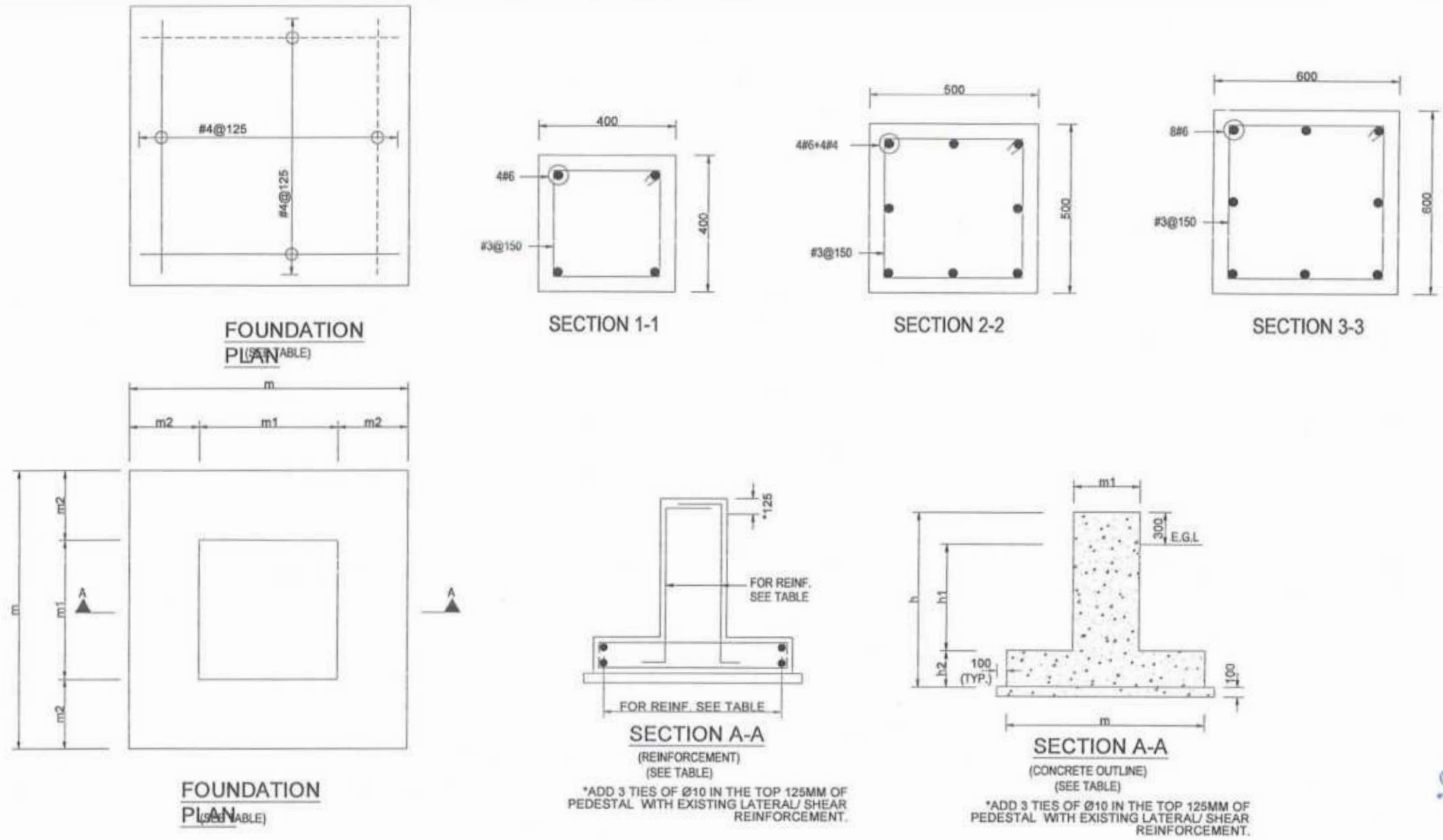


TABLE - 1

AREA OF SIGN BOARD A (M) <sup>2</sup>	STRUCTURAL CONCRETE SIZING (mm)						STRUCTURAL STEEL SIZING (mm)						REINFORCEMENT		
	PEDESTAL m <sub>1</sub> x m <sub>1</sub>	FOUNDATION PAD m x m	m <sub>2</sub>	h <sub>1</sub>	h <sub>2</sub>	h	PIPE		BASE PLATE		ANCHOR BOLTS (J-TYPE)		PEDESTAL	PAD	
							DIA (Ø)	THICKNESS (t)	PLAN SIZE (AxB)	THICKNESS (T)	DIA.	EMBEDMENT (L)			Number
3 < A < 5	400x400	1000x1000	400	1250	350	1600	125	6	300x300	22	16	400	4	SEE SEC. 1-1	SEE FOUNDATION PLAN
5 < A < 10	500x500	1350x1350	525	1175	425	1600	150	10	400x400	25	20	450	4	SEE SEC. 2-2	
10 < A < 15	500x500	1500x1500	525	1125	475	1600	175	10	400x400	28	22	500	4	SEE SEC. 2-2	
15 < A < 20	600x600	1750x1750	625	1050	550	1600	200	10	500x500	32	25	600	4	SEE SEC. 3-3	

TABLE - 2

INFORMATION	
FOUNDATION TYPE-1	FOR SINGLE SIGNS AND SINGLE SIGNS WITH ADDITIONAL PLATE
FOUNDATION TYPE-2	FOR DOUBLE SIGNS, FOR SINGLE POST SIGNS WITH AREA <1.5m <sup>2</sup> & FOR DOUBLE POST SIGNS WITH AREA <3m <sup>2</sup>
FOUNDATION TYPE-3	FOR DOUBLE SIGNS WITH 3 < AREA <20m <sup>2</sup>

*[Signature]*  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0	DATE: AUG, 2024	DESCRIPTION: TENDER DRAWINGS	NAMES: G.DESIGNED: TANZEEL	PROJECT: KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	SCALE: N.T.S	SHEET CONTENT: TRAFFIC SIGNS DETAILS
		c			DRAWN: IMRAN			DATE: AUG	
		b			CHECKED: S.DURRAH				



**PAVEMENT MARKING LINES**

FOR DIMENSIONS L & W1 TO W5, SEE TABLE-1



**L1 - BROKEN GUIDE LINE-WHITE**

AT CENTERLINE OF DIVIDED 2-LANE



**L2 - BROKEN WARNING LINE -WHITE**

LANE MARKING FOR MIX TRAFFIC



**L3 - CONTINUOUS LINE - WHITE**

AT NO PASSING ZONES



**L4 - CONTINUOUS EDGE LINE -YELLOW**

AT EDGE OF PAVEMENT AT ALL LOCATIONS



**L5 - DASHED LINE - WHITE**

AT SEPARATION OF THROUGH LANES FROM ACCELERATION LANE



**L6 - DOTTED LINE - WHITE**

FOR DEFINING VEHICLE PATHS WITHIN INTERSECTIONS



**L7 - STOP LINE - WHITE**

AT INTERSECTIONS ACROSS PAVEMENT



**L8 - TRANSVERSE YIELD LINE - WHITE**

AT INTERSECTIONS ACROSS PAVEMENT IN THE SAME POSITION AS L7 LINE TO INDICATE GIVE WAY

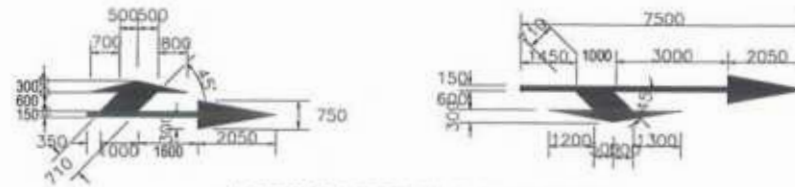


**L9 - DOTTED LINE - YELLOW**

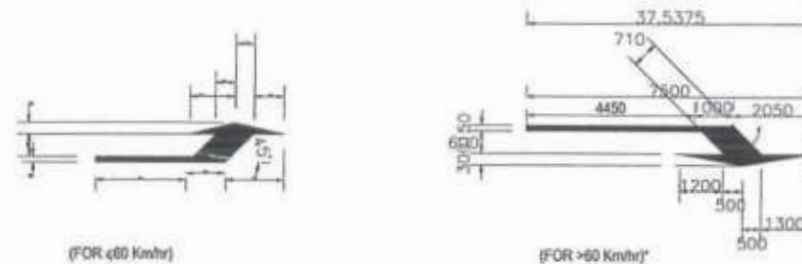
FOR EDGE LINE WHERE PARKING BAYS ARE PROVIDED OUTSIDE THE LANE



**ARROWS TYPE-I (STRAIGHT)**

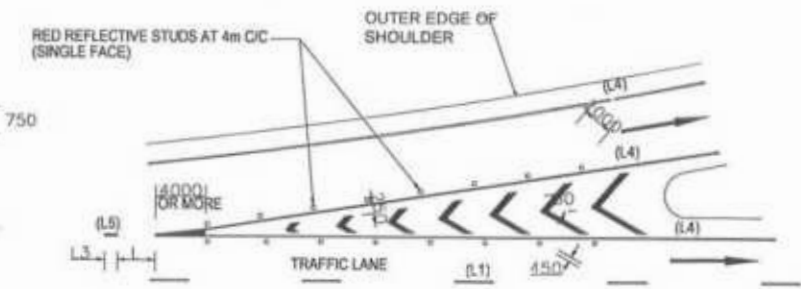


**ARROWS TYPE-II (COMBINED)**

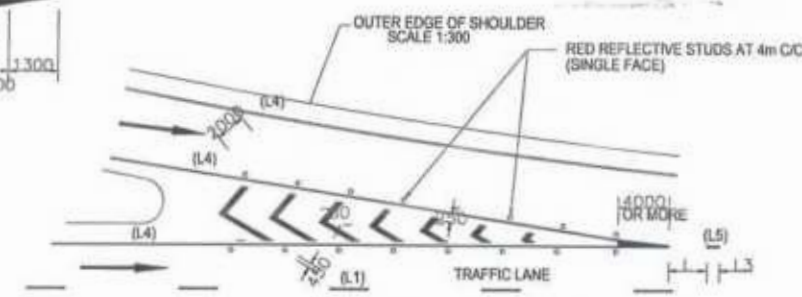


**ARROWS TYPE-III (DEFLECTION)**

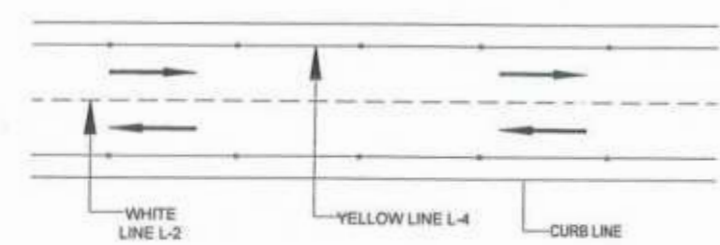
LANE SELECTION ARROWS - WHITE



**ENTRANCE NOSE DETAIL**



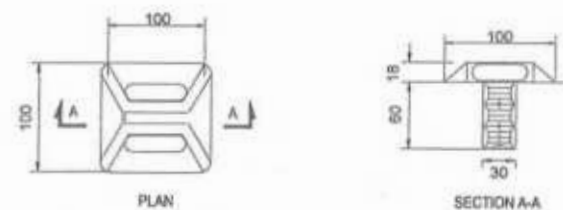
**EXIT NOSE DETAIL SCALE 1:300**



**PROJECT ROAD**

TABLE - 1

ROADWAY SPEED	L (mm)	W1	W2	W3	W4	W5
≤50 Km/hr	2000	100	100	100	300	100
60-80 Km/hr	3000	120	120	150	300	100
>80 Km/hr	4000	150	150	150	300	120
SERVICE ROAD	2000	100	120	100	300	100



**REFLECTORISED PAVEMENT STUD (RAISED PROFILE TYPE)**

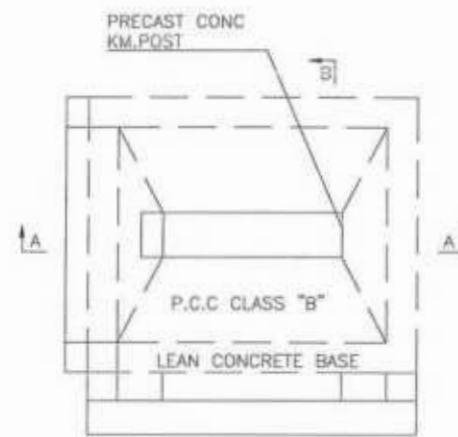
*[Signature]*  
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



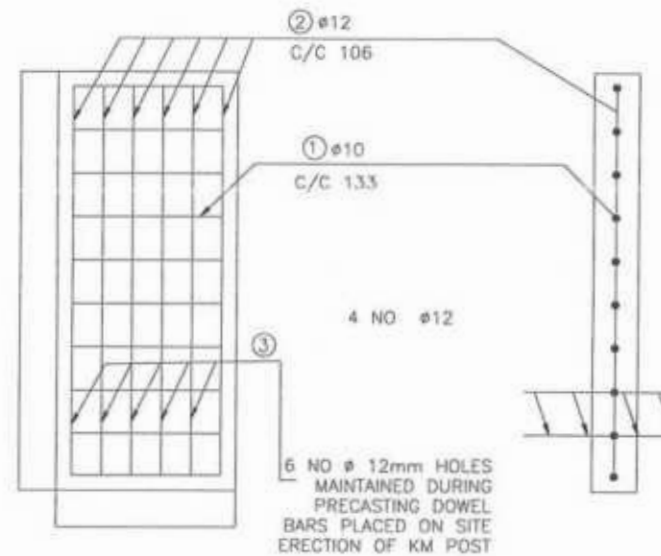
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED			TANZEEL		N.T.S
		a			DRAWN			IMRAN		DATE:
		b			CHECKED	S.DURRAN		AT/2	TYPICAL PAVEMENT MARKING DETAILS	

BAR NO	DESCRIPTION	DIA. (mm)	NO
①	530mm	10	11
②	1330mm	10	6
③	620mm	12	6
④	620mm	12	4

TABLE-1  
REINFORCEMENT SCHEDULE

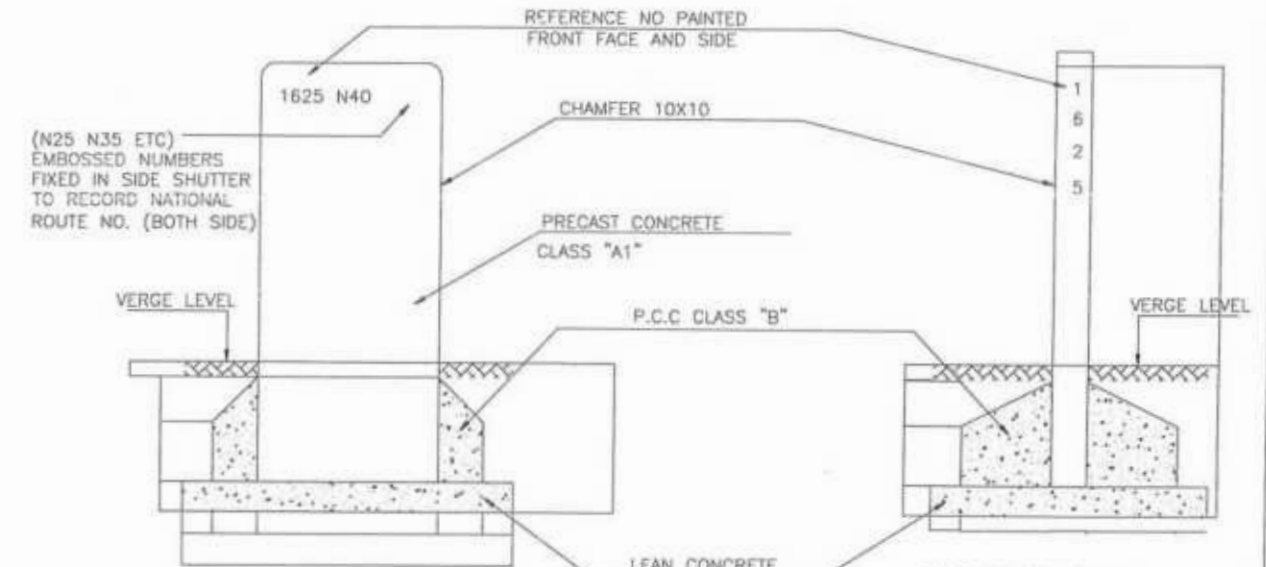


PLAN



REINFORCEMENT DETAIL

SEE TABLE-1 OF REINFORCEMENT SCHEDULE

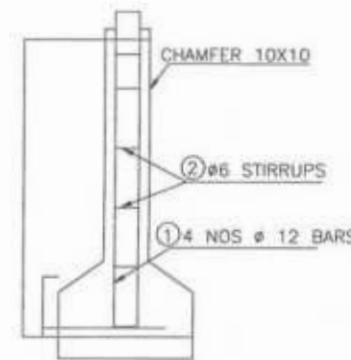


FRONT ELEVATION A-A

SIDE ELEVATION B-B

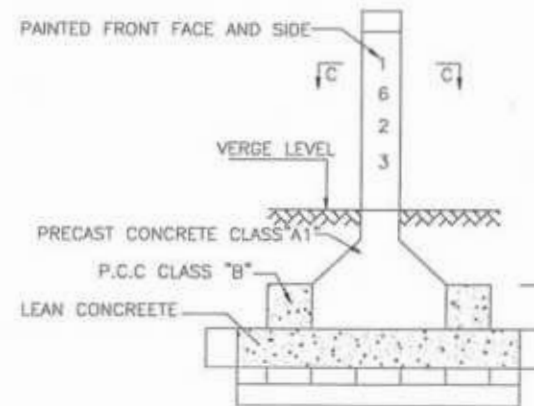
### FIVE KILOMETER POST

*[Signature]*  
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

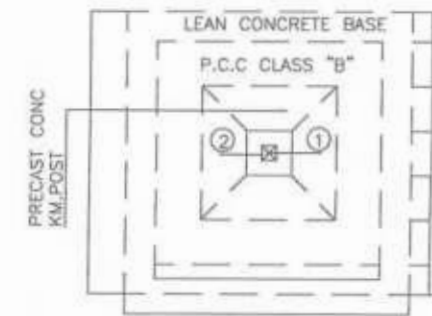


REINFORCEMENT DETAIL

SEE TABLE-2 OF REINFORCEMENT SCHEDULE



FRONT AND SIDE ELEVATION



SECTION C-C

BAR NO	DESCRIPTION	DIA. (mm)	NO
①	230	12	4
②	40/80	6	9

TABLE-2  
REINFORCEMENT SCHEDULE

NOTES:-

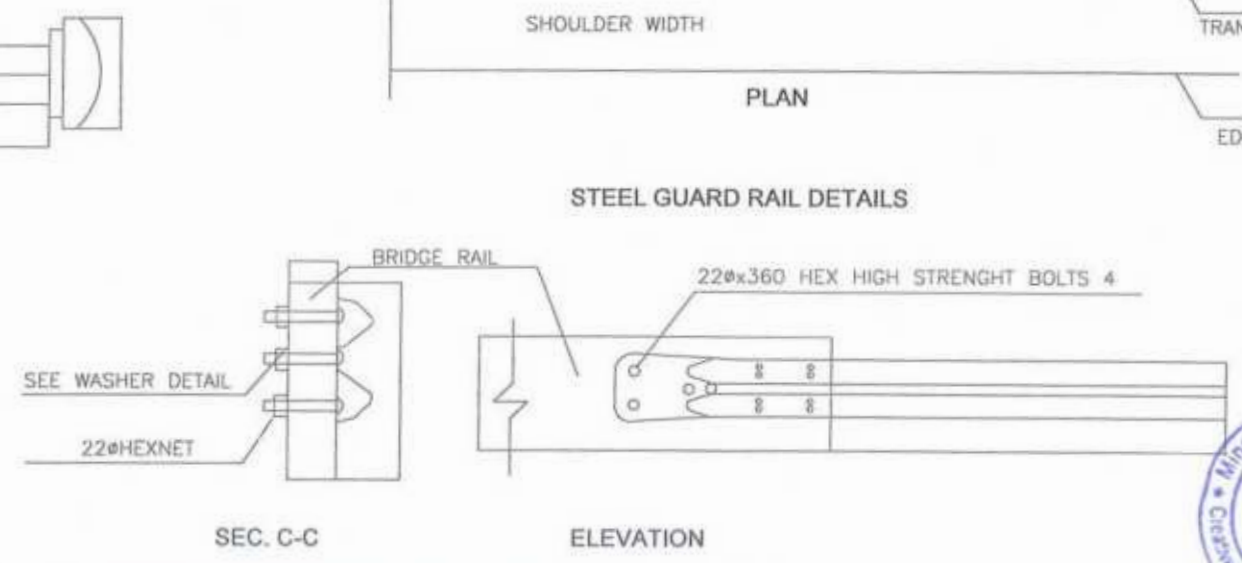
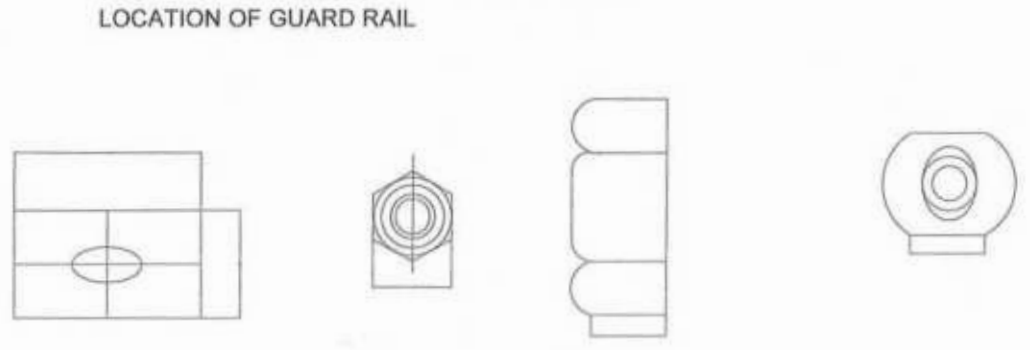
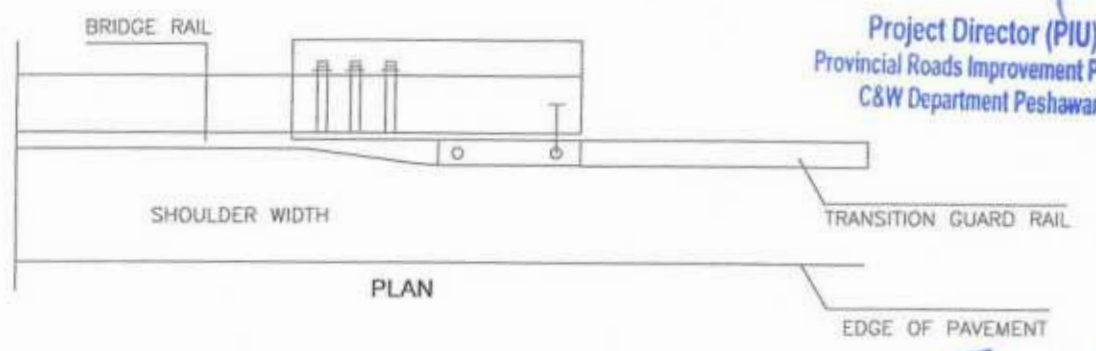
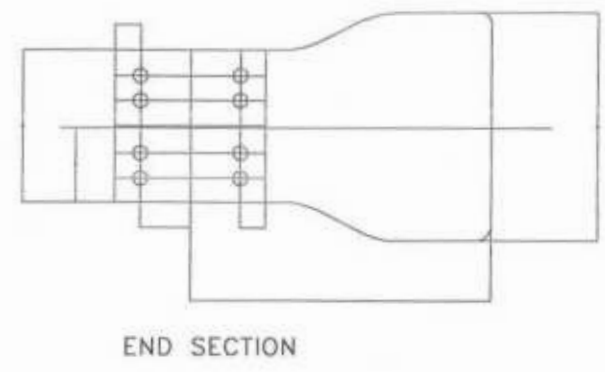
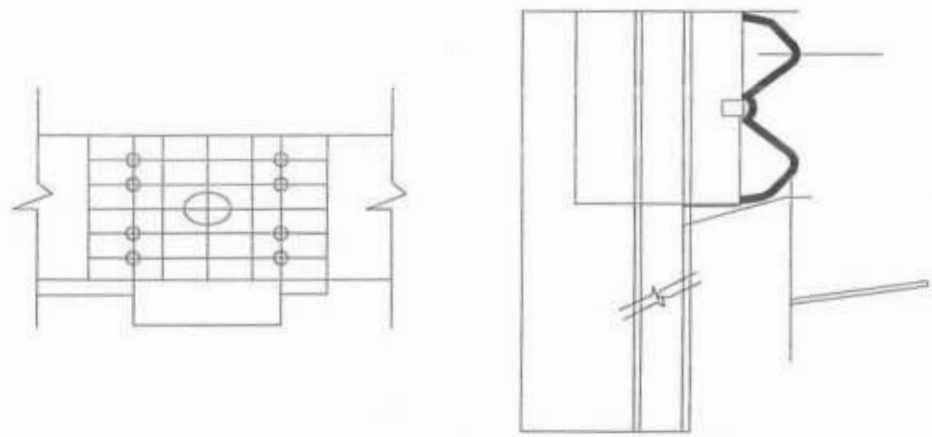
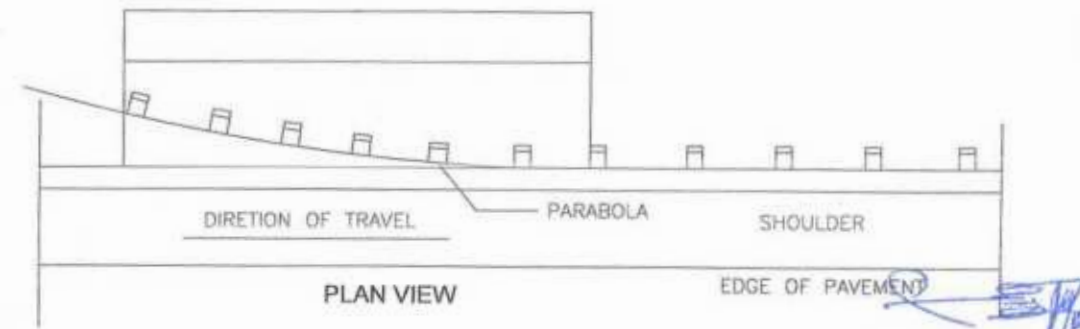
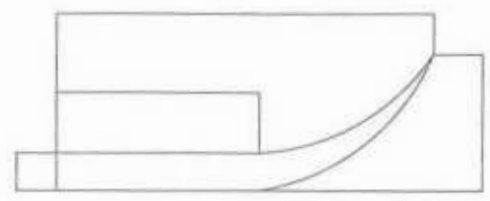
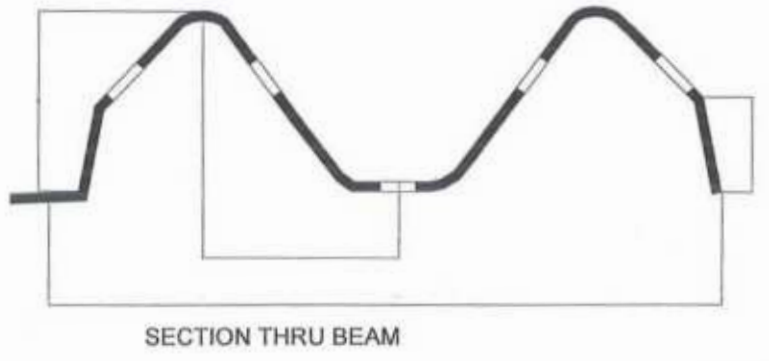
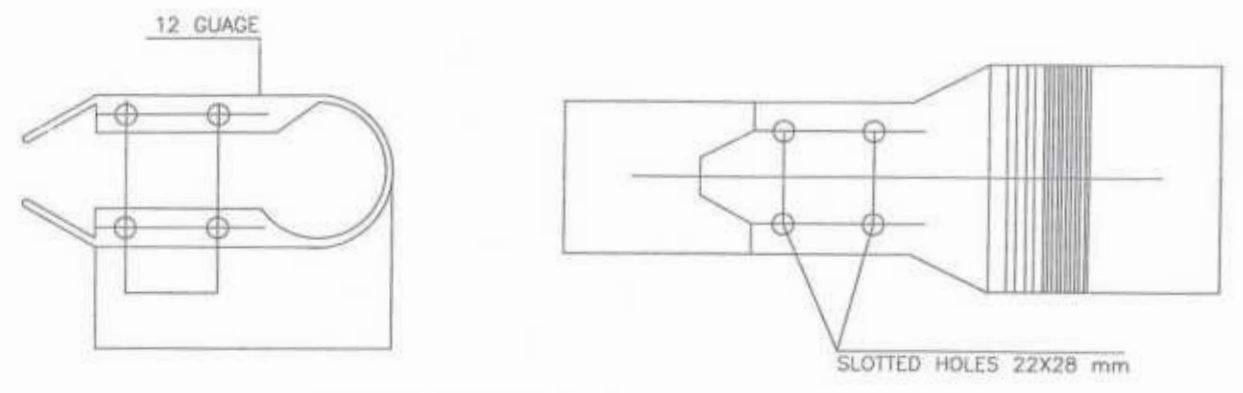
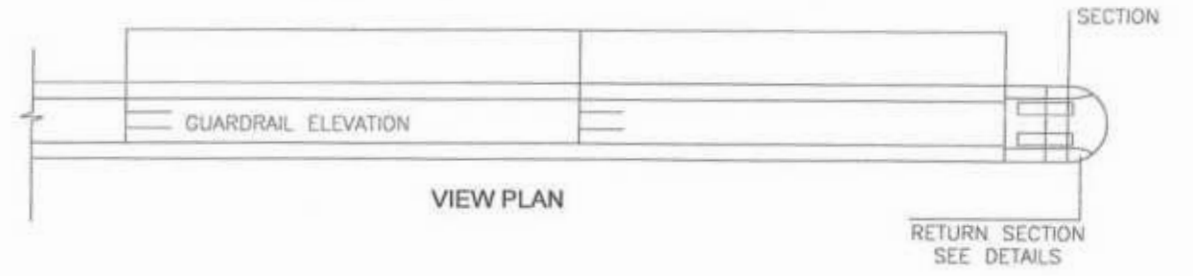
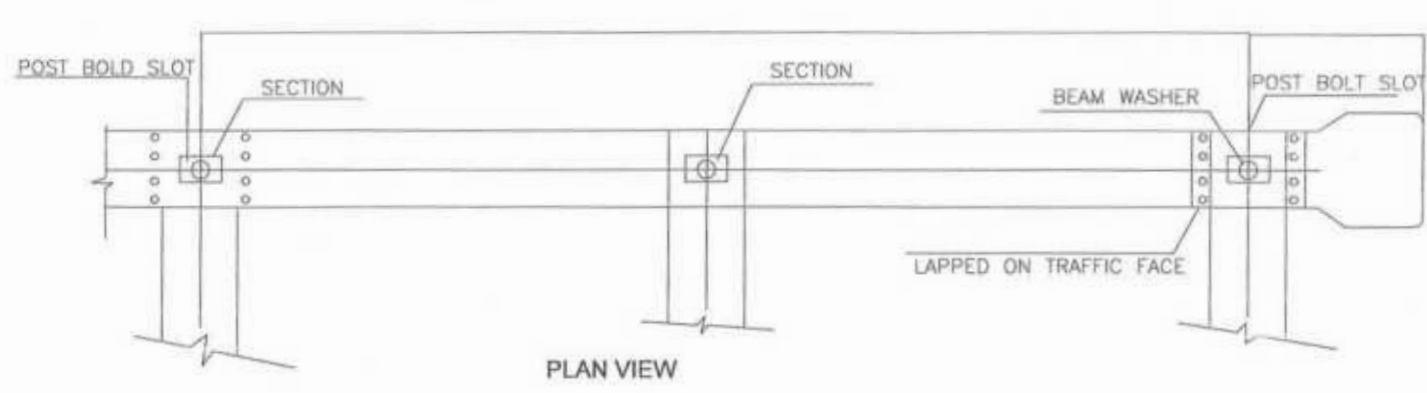
1. PRECAST CONCRETE SHALL BE CLASS "A1" AS PER G.S.I 401
2. CONCRETE COVER 35mm
3. P.C.C CLASS "B" AS PER G.S.I 401
4. LEAN CONCRETE SHALL BE AS PER G.S.I 401
5. REINFORCEMENT DEFORMED GRADE 40 AS PER AASHTO M-31
6. BACKGROUND COLOUR WILL BE WHITE WITH LETTERING COLOUR WILL BE BLACK.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



### ONE KILOMETER POST

CLIENT	DESIGN CONSULTANT	REV	DATE	DESCRIPTION	NAMES	PROJECT	ROAD NAME	SCALE	SHEET CONTENT
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL	<p>KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)</p>	<p>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD</p>	<p>N.T.S DATE: AUG.</p>	<p>KM POST DETAILS</p>
		c			DRAWN IMRAN				
		b			CHECKED S.DURRANI				





Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

*[Handwritten signature]*



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET NO. / TOTAL
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ACCESSIBILITY PROJECT (KP-RAP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	N.T.S	GUARD RAIL DETAILS
		1			DRAWN IMRAN				
		2			CHECKED S.DURRANI				



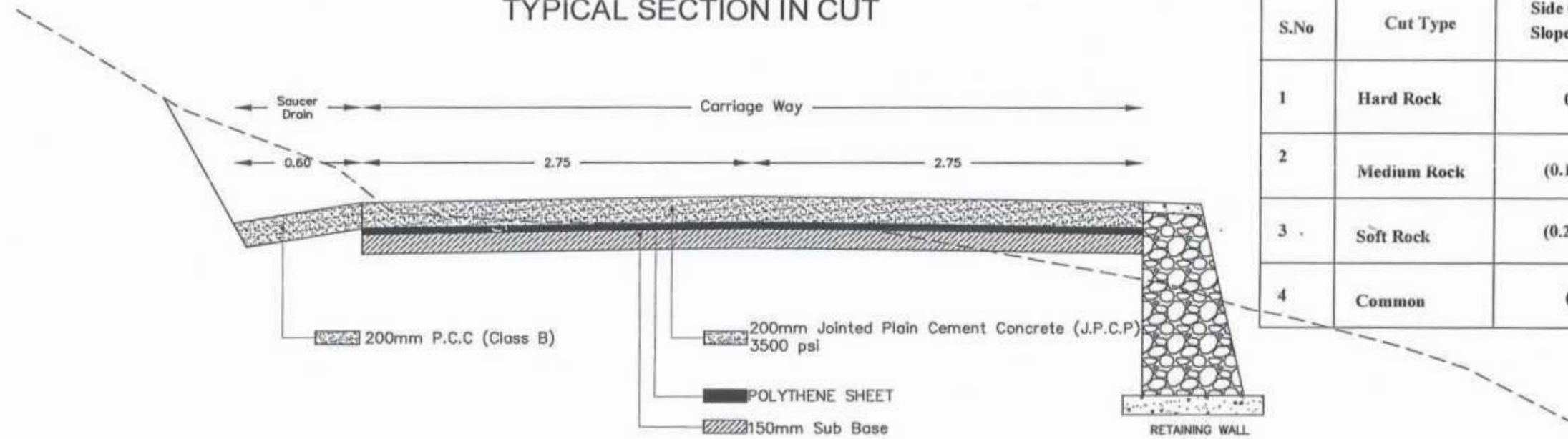
# TYPICAL SECTIONS



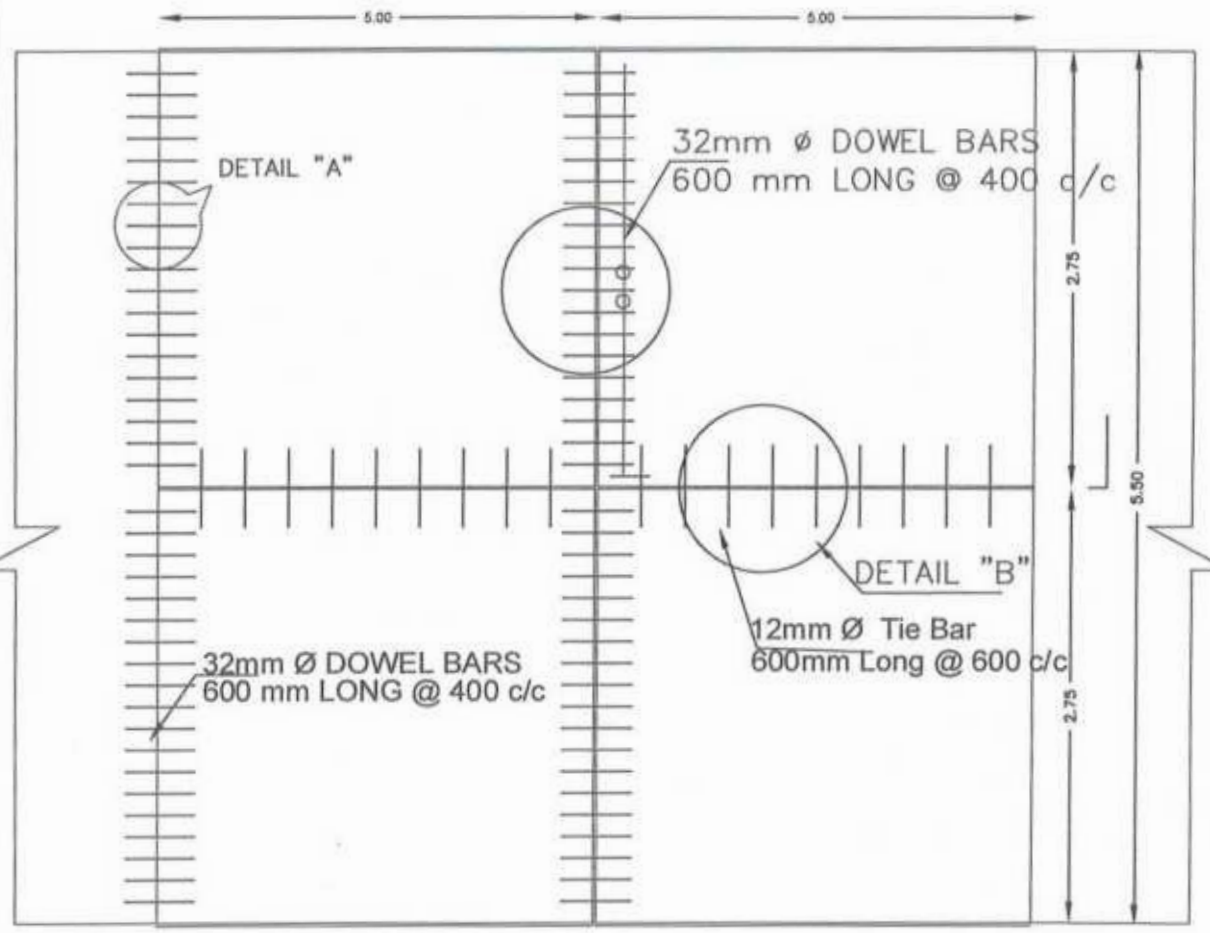
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



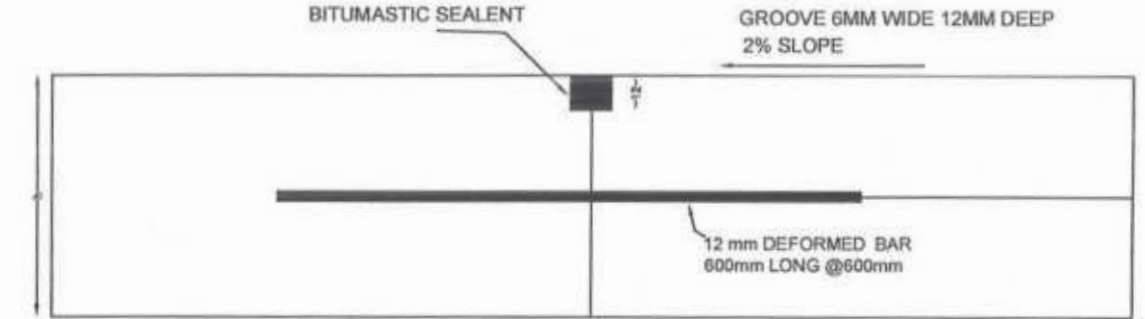
### TYPICAL SECTION IN CUT



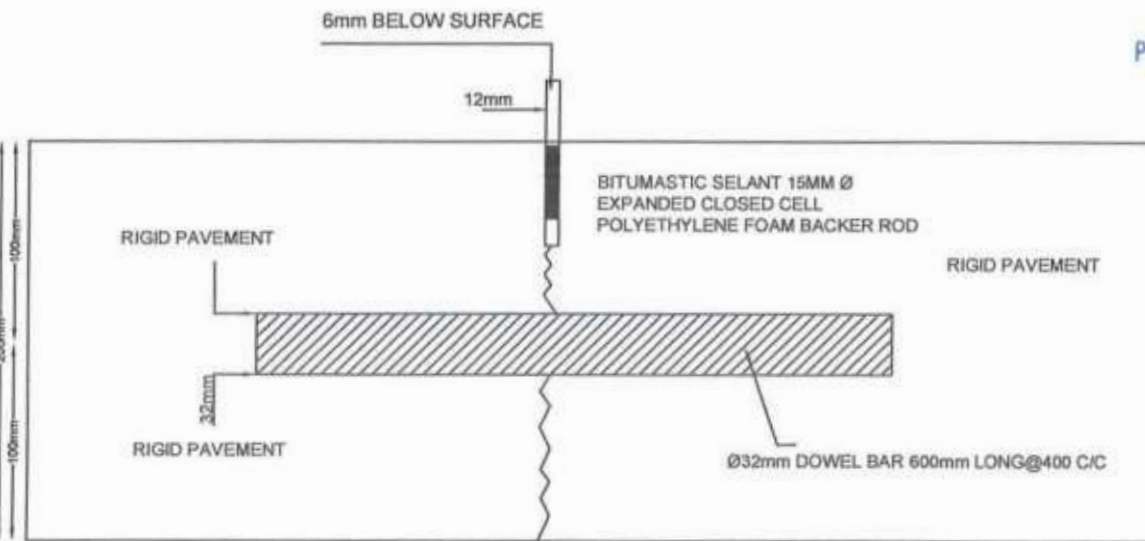
Side Slope Detail		
S.No	Cut Type	Side Cut Slope (H:V)
1	Hard Rock	0.15:1
2	Medium Rock	(0.15 - 0.25):1
3	Soft Rock	(0.25 - 0.50):1
4	Common	(0.5):1



PLAN VIEW OF LONGITUDINAL JOINTS AND TIE BARS



DETAIL "B"



DETAIL OF CONSTRUCTION JOINT / "A"

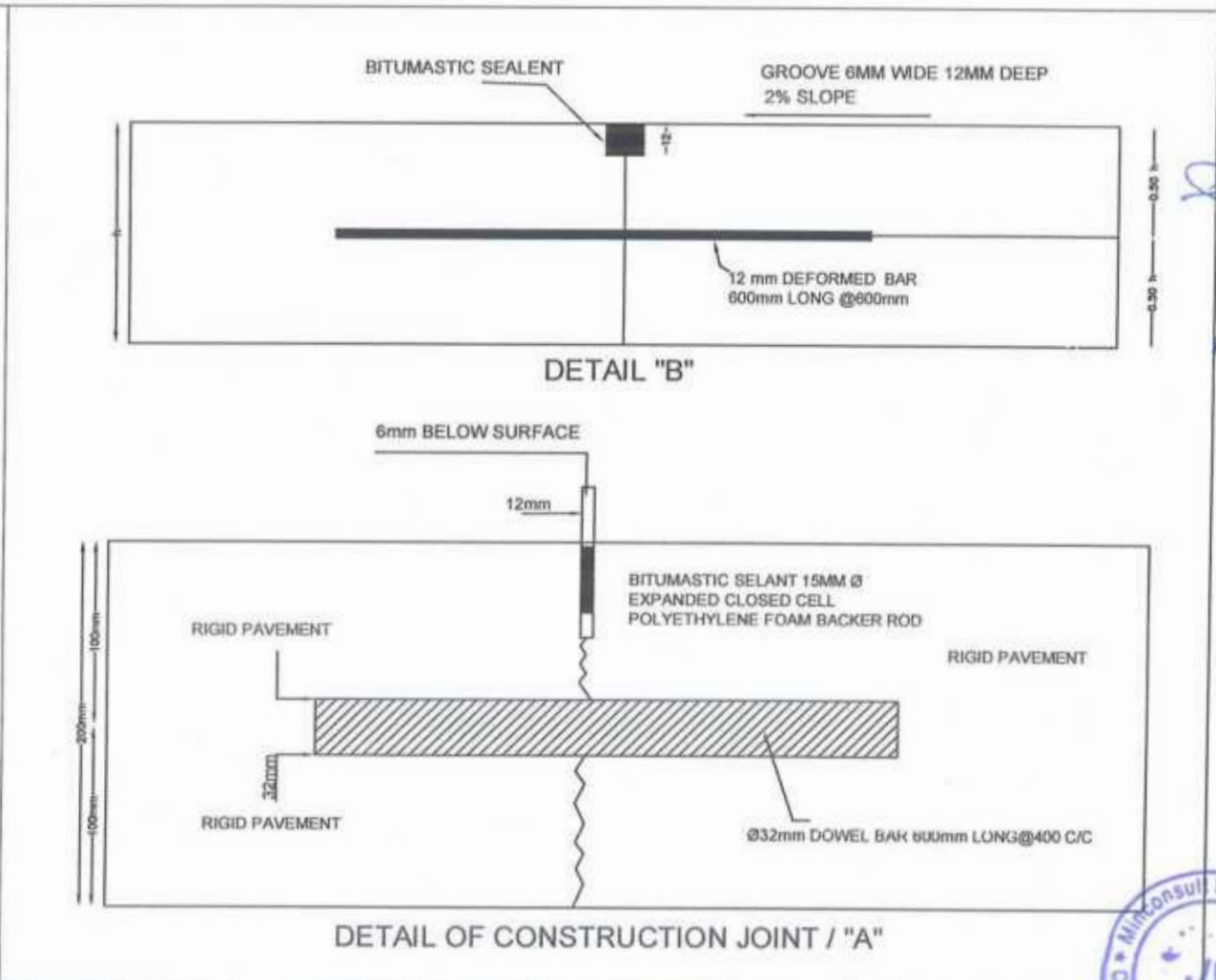
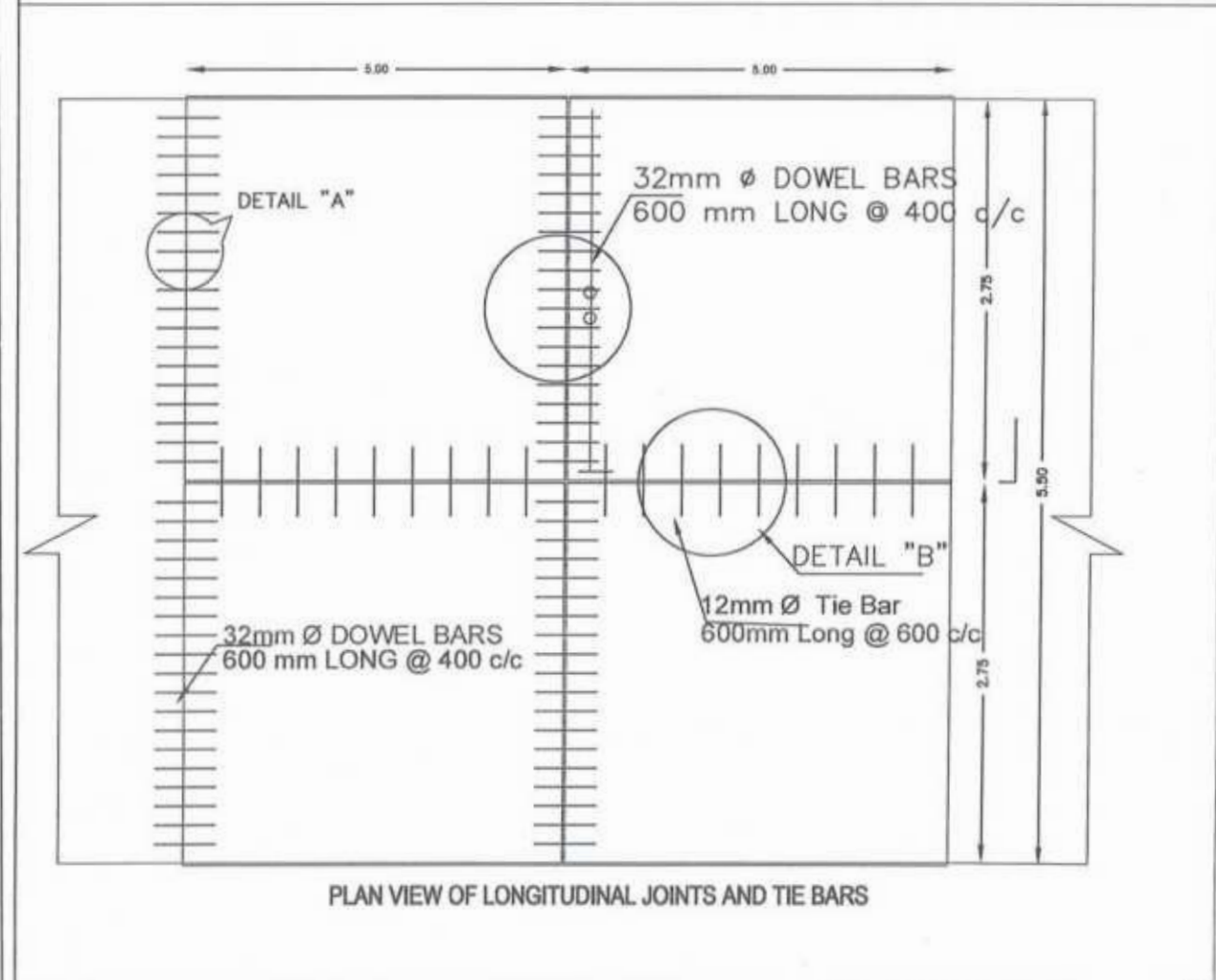
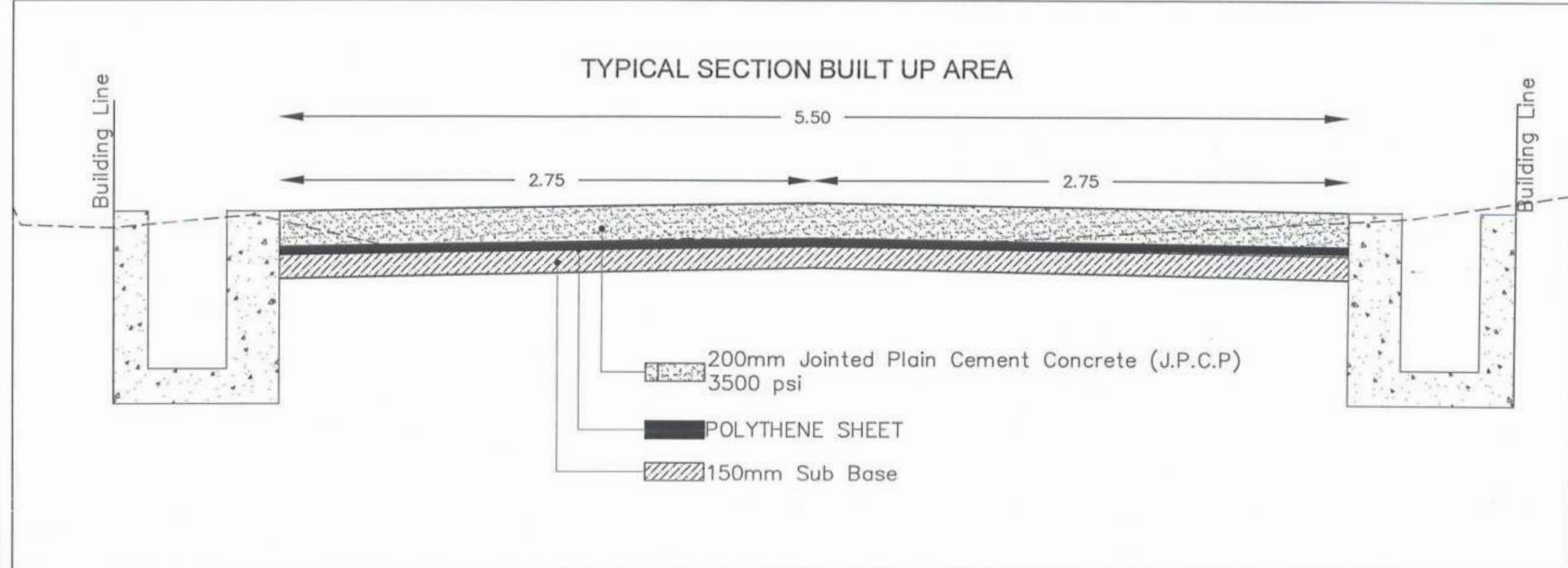
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58235-F) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		0	AUG, 2024	Tender Drawings.	G. DESIGNED: S. DURRANI DRAWN: IFTIKHAR ABBAS CHECKED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	NTS	TYPICAL SECTION



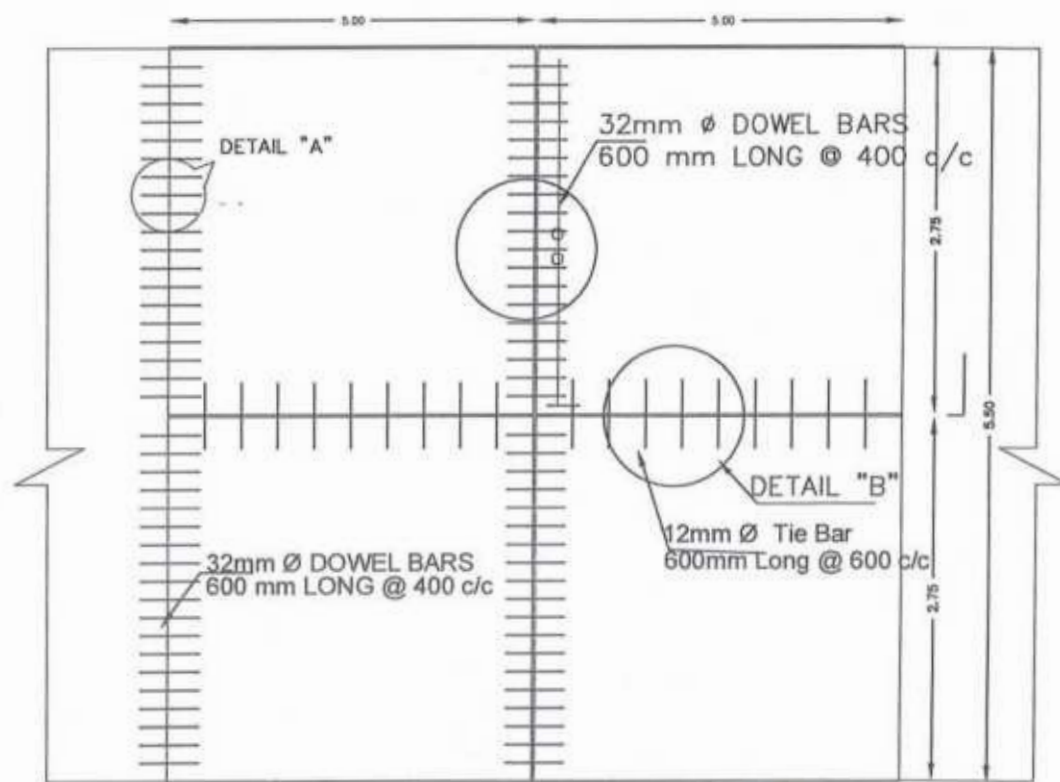
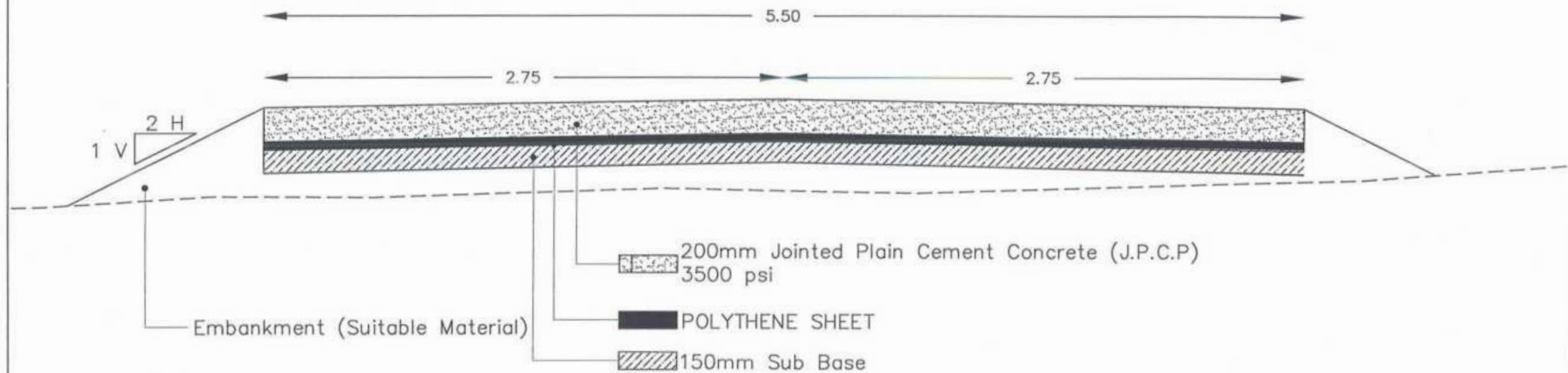


**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

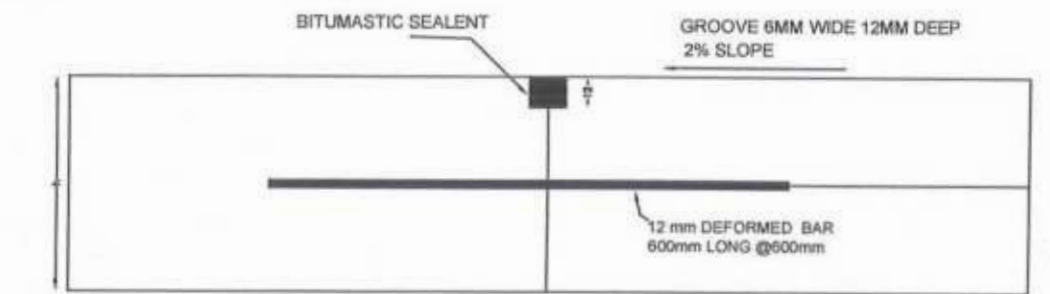


CLIENT:  <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC)  MINCONSULT SDN BHD (COMPANY NO. 88835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV. DATE DESCRIPTION a. AUG.2024 Tender Drawings. b. c.	NAMES: G.DESIGNED S.DURRANI DRAWN IFTIKHAR ABBAS CHECKED S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: SHEET CONTENT: NTS TYPICAL SECTION DATE: AUG.
---	---	---	---	---	---	---

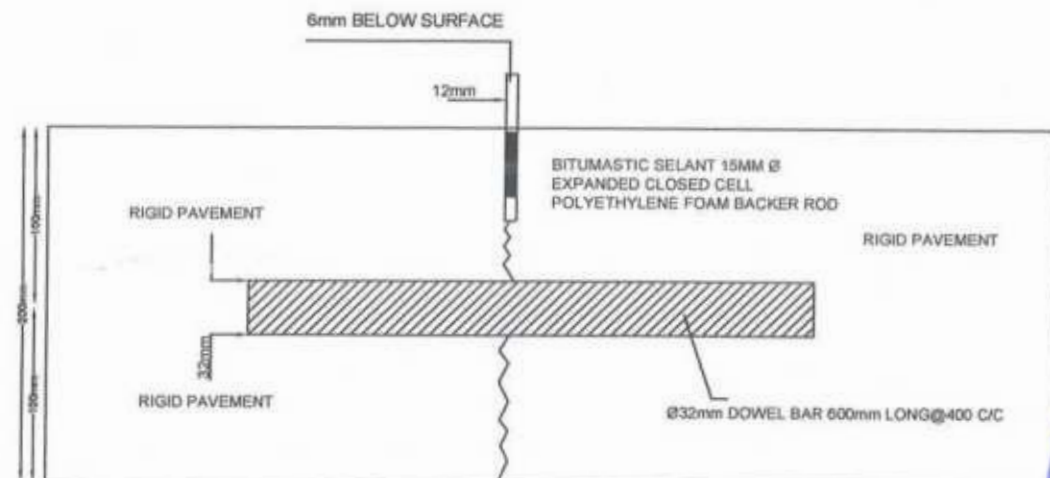
# TYPICAL SECTION PLAIN AREA



PLAN VIEW OF LONGITUDINAL JOINTS AND TIE BARS



DETAIL "B"



DETAIL OF CONSTRUCTION JOINT / "A"

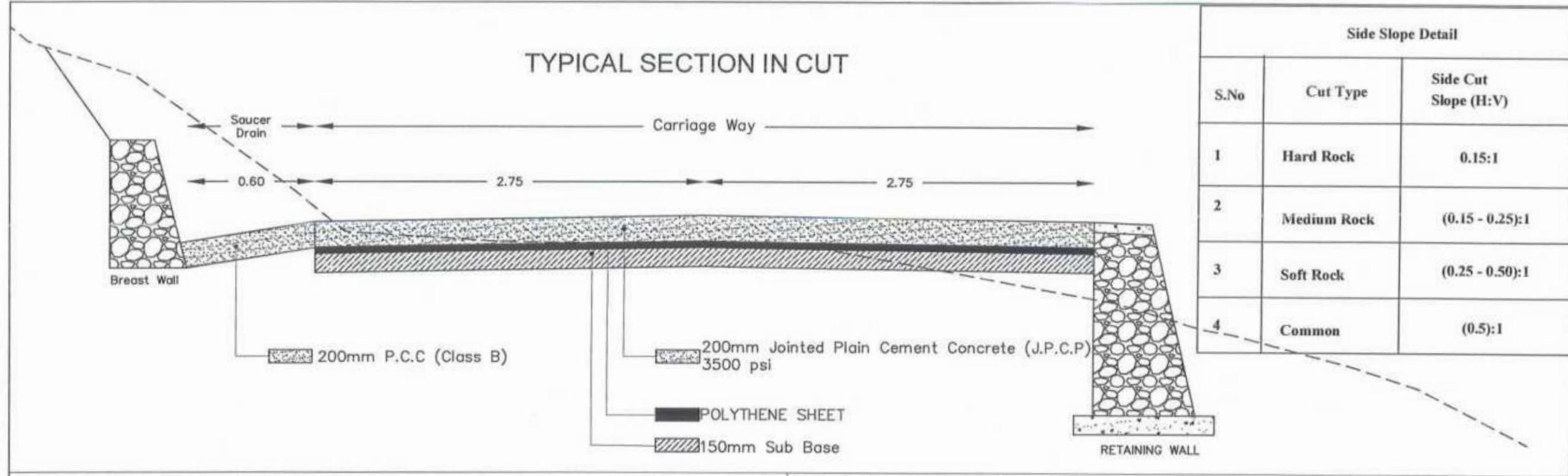
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



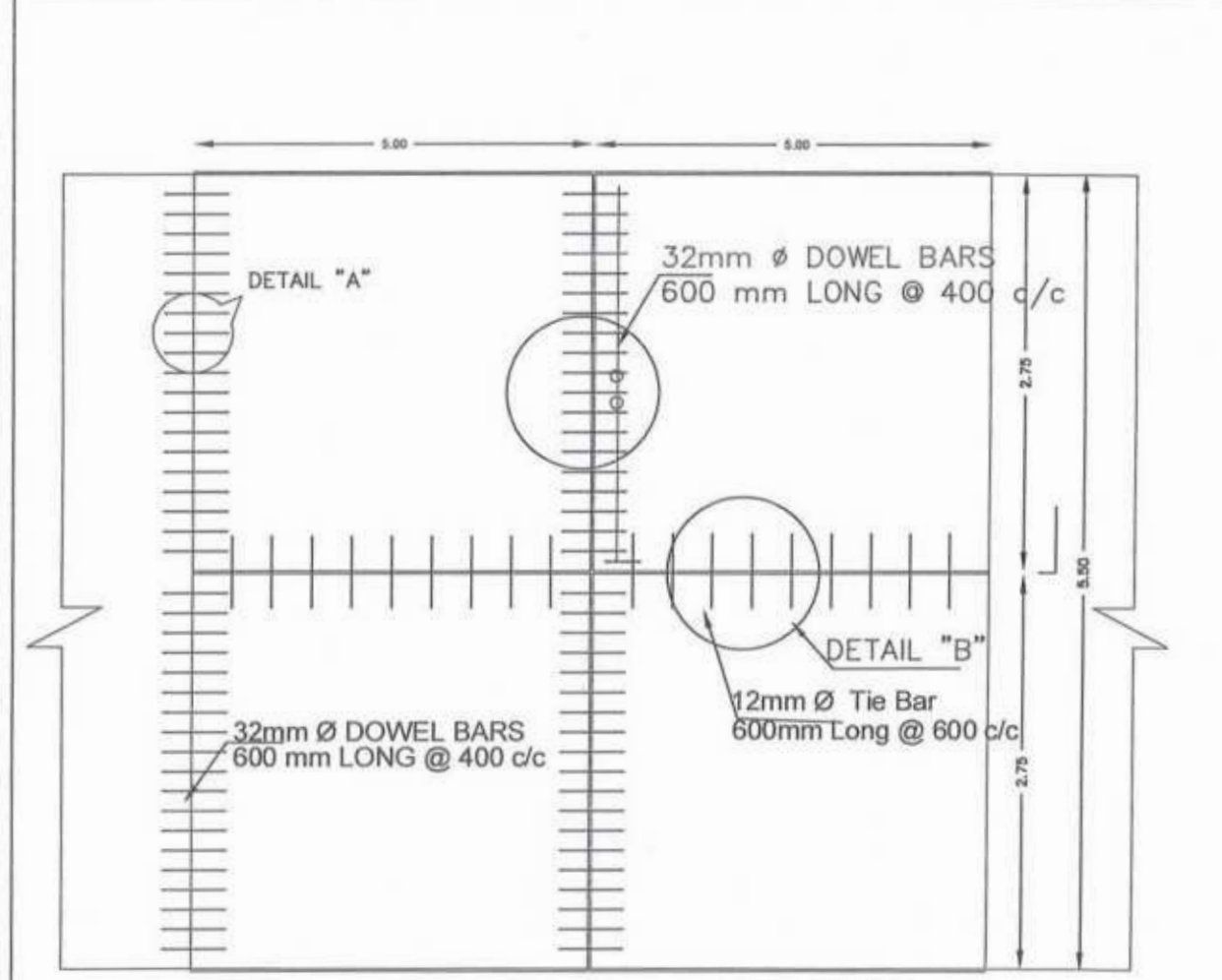
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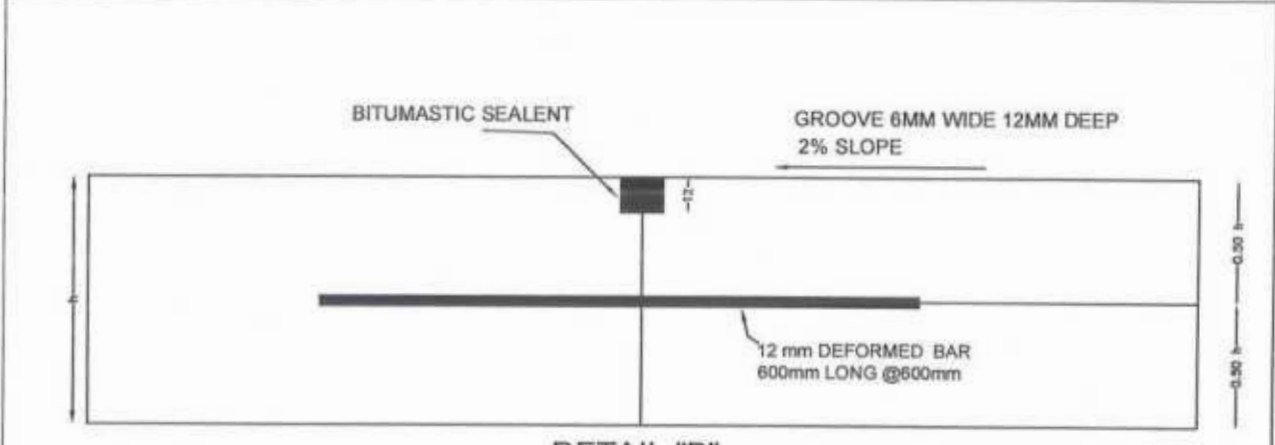
# TYPICAL SECTION IN CUT



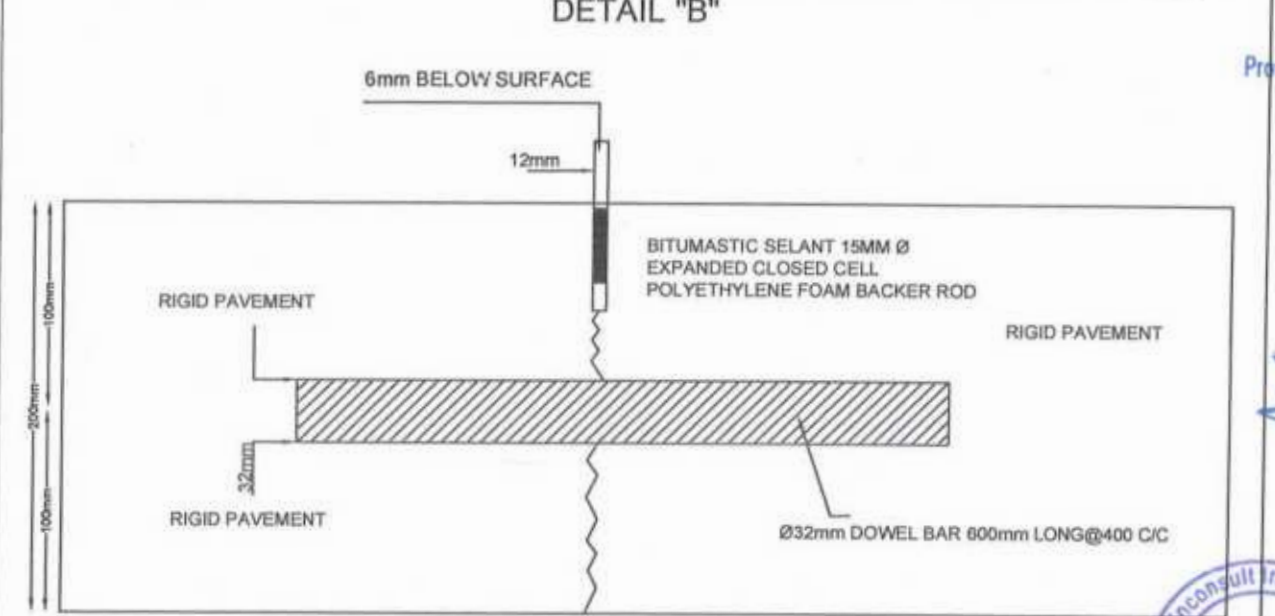
Side Slope Detail		
S.No	Cut Type	Side Cut Slope (H:V)
1	Hard Rock	0.15:1
2	Medium Rock	(0.15 - 0.25):1
3	Soft Rock	(0.25 - 0.50):1
4	Common	(0.5):1



PLAN VIEW OF LONGITUDINAL JOINTS AND TIE BARS



DETAIL "B"



DETAIL OF CONSTRUCTION JOINT / "A"

*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 98835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG. 2024	Tender Drawings	G.DESIGNED: S.DURRANI DRAWN: IFTIKHAR ABBAS CHECKED: S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	NTS	TYPICAL SECTION

GENERAL NOTES FOR TYPICAL CROSS SECTIONS

(For 5.50m Carriage Way)

1. Criteria-1

If the difference between FRL and NSL is 425mm then thickness of Sub Base will be 150mm.  
In this case the layer combination will be:

- i. Jointed Plain Cement Concrete: 200mm
- ii. POHLYTHENE SHEET
- iii. Granular Sub Base: 150mm
- iv. Sub Grade Preparation

2. Criteria-2:

If the difference between FRL and NSL is 425 to 475 mm then thickness of Sub Base will be 200mm.  
In this case the layer combination will be:

- i. Jointed Plain Cement Concrete: 200mm
- ii. POHLYTHENE SHEET
- iii. Granular Sub Base: 150 - 200mm
- iv. Sub Grade Preparation

3. Criteria-3:

If the difference between FRL and NSL is above 475mm then thickness of sub base will be 150mm and additionally suitable fill material will be used to cover the remaining thickness.  
In this case the layer combination will be:

- i. Jointed Plain Cement Concrete: 200mm
- ii. POHLYTHENE SHEET
- iii. Granular Sub Base: 150mm
- iv. Remaining Thickness: Suitable Fill Material
- v. C/G & NGC before starting the filling.

4. Benching:

- i. Hard Rock : If height  $\geq$  10m, Bench width will be 1m.
- ii. Medium Rock : If height  $\geq$  7m, Bench width will be 1-2m.

Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.




CLIENT:	DESIGN CONSULTANT:	(MIN - JV - CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 19835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	Tender Drawings	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	NTS  DATE AUG	TYPICAL SECTION
		1			DRAWN	IFTIKHAR ABBAS				
		2			CHECKED	S.DURRANI				



# CENTER LINE DATA



Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.







CENTER LINE DATA			
S:No	Station	Northing	Easting
1	0+000.00	1256642.43	3145136.12
2	0+025.00	1256617.91	3145139.73
3	0+050.00	1256599.10	3145124.63
4	0+075.00	1256585.42	3145103.73
5	0+100.00	1256566.47	3145087.53
6	0+125.00	1256549.63	3145069.45
7	0+150.00	1256545.06	3145045.09
8	0+175.00	1256543.56	3145020.14
9	0+200.00	1256542.07	3144995.18
10	0+225.00	1256540.57	3144970.23
11	0+250.00	1256534.98	3144946.16
12	0+275.00	1256519.97	3144926.18
13	0+300.00	1256504.64	3144906.44
14	0+325.00	1256486.07	3144890.32
15	0+350.00	1256462.79	3144882.26
16	0+375.00	1256446.75	3144863.11
17	0+400.00	1256429.83	3144844.73
18	0+425.00	1256411.75	3144827.48
19	0+450.00	1256401.43	3144804.94
20	0+475.00	1256391.71	3144782.15
21	0+500.00	1256369.05	3144773.30
22	0+525.00	1256345.53	3144766.22
23	0+550.00	1256330.92	3144746.03
24	0+575.00	1256314.00	3144727.82
25	0+600.00	1256294.68	3144711.95
26	0+625.00	1256276.86	3144694.66
27	0+650.00	1256274.79	3144670.48
28	0+675.00	1256281.84	3144646.49
29	0+700.00	1256287.52	3144622.21
30	0+725.00	1256290.72	3144597.70
31	0+750.00	1256311.83	3144585.86
32	0+775.00	1256335.84	3144578.92
33	0+800.00	1256348.43	3144559.19
34	0+825.00	1256344.97	3144534.46
35	0+850.00	1256349.24	3144509.93
36	0+875.00	1256355.25	3144485.67
37	0+900.00	1256352.64	3144461.04
38	0+925.00	1256345.53	3144437.08
39	0+950.00	1256346.68	3144412.51
40	0+975.00	1256359.13	3144390.87
41	1+000.00	1256368.29	3144367.69
42	1+025.00	1256382.26	3144347.82
43	1+050.00	1256397.04	3144328.68
44	1+075.00	1256396.74	3144303.70
45	1+100.00	1256400.87	3144279.41
46	1+125.00	1256413.70	3144257.96
47	1+150.00	1256426.57	3144236.52
48	1+175.00	1256439.43	3144215.09
49	1+200.00	1256453.40	3144194.37
50	1+225.00	1256469.64	3144175.38
51	1+250.00	1256486.56	3144156.97
52	1+275.00	1256503.47	3144138.56

CENTER LINE DATA			
S:No	Station	Northing	Easting
53	1+300.00	1256520.38	3144120.15
54	1+325.00	1256538.52	3144102.98
55	1+350.00	1256558.24	3144087.62
56	1+375.00	1256579.43	3144074.48
57	1+400.00	1256602.81	3144065.63
58	1+425.00	1256626.29	3144057.05
59	1+450.00	1256649.04	3144046.91
60	1+475.00	1256667.55	3144030.14
61	1+500.00	1256688.87	3144017.26
62	1+525.00	1256708.08	3144002.97
63	1+550.00	1256690.94	3143993.08
64	1+575.00	1256667.59	3144002.01
65	1+600.00	1256644.17	3144010.75
66	1+625.00	1256619.72	3144015.77
67	1+650.00	1256595.42	3144021.49
68	1+675.00	1256571.52	3144028.84
69	1+700.00	1256547.63	3144036.20
70	1+725.00	1256523.74	3144043.56
71	1+750.00	1256499.56	3144049.89
72	1+775.00	1256477.07	3144060.28
73	1+800.00	1256457.82	3144076.23
74	1+825.00	1256436.40	3144089.00
75	1+850.00	1256412.82	3144097.26
76	1+875.00	1256389.08	3144105.11
77	1+900.00	1256364.88	3144109.17
78	1+925.00	1256344.00	3144095.94
79	1+950.00	1256348.20	3144073.81
80	1+975.00	1256368.46	3144059.15
81	2+000.00	1256388.73	3144044.52
82	2+025.00	1256410.58	3144032.46
83	2+050.00	1256432.50	3144020.67
84	2+075.00	1256450.21	3144003.07
85	2+100.00	1256471.54	3143990.08
86	2+125.00	1256493.30	3143977.77
87	2+150.00	1256515.95	3143967.20
88	2+175.00	1256523.63	3143948.45
89	2+200.00	1256499.45	3143946.33
90	2+225.00	1256474.48	3143947.62
91	2+250.00	1256449.68	3143950.60
92	2+275.00	1256425.44	3143956.70
93	2+300.00	1256400.81	3143960.88
94	2+325.00	1256375.97	3143963.73
95	2+350.00	1256351.14	3143966.58
96	2+375.00	1256326.30	3143969.42
97	2+400.00	1256301.32	3143969.63
98	2+425.00	1256276.33	3143969.44
99	2+450.00	1256251.63	3143973.08
100	2+475.00	1256227.38	3143979.15
101	2+500.00	1256203.13	3143985.23
102	2+525.00	1256180.09	3143994.54
103	2+550.00	1256157.82	3144005.68
104	2+575.00	1256135.53	3144003.02

CENTER LINE DATA			
S:No	Station	Northing	Easting
105	2+600.00	1256144.30	3143981.05
106	2+625.00	1256159.24	3143961.06
107	2+650.00	1256180.55	3143948.41
108	2+675.00	1256203.43	3143938.43
109	2+700.00	1256224.11	3143924.40
110	2+725.00	1256244.45	3143909.86
111	2+750.00	1256265.57	3143896.50
112	2+775.00	1256287.24	3143884.04
113	2+800.00	1256310.65	3143875.38
114	2+825.00	1256333.88	3143866.75
115	2+850.00	1256315.85	3143857.43
116	2+875.00	1256290.95	3143855.18
117	2+900.00	1256266.05	3143852.93
118	2+925.00	1256241.16	3143850.68
119	2+950.00	1256219.75	3143843.22
120	2+975.00	1256238.15	3143827.18
121	3+000.00	1256258.68	3143812.96
122	3+025.00	1256282.67	3143806.11
123	3+050.00	1256306.98	3143800.31
124	3+075.00	1256331.30	3143794.50
125	3+100.00	1256354.92	3143786.43
126	3+125.00	1256378.01	3143776.85
127	3+150.00	1256401.10	3143767.26
128	3+175.00	1256425.27	3143761.52
129	3+200.00	1256449.72	3143757.82
130	3+225.00	1256474.11	3143756.74
131	3+250.00	1256498.36	3143757.93
132	3+275.00	1256500.12	3143735.17
133	3+300.00	1256483.30	3143717.34
134	3+325.00	1256462.43	3143703.58
135	3+350.00	1256441.55	3143689.83
136	3+375.00	1256420.65	3143676.12
137	3+400.00	1256397.93	3143665.83
138	3+425.00	1256374.22	3143657.90
139	3+450.00	1256350.32	3143650.60
140	3+475.00	1256325.78	3143645.88
141	3+500.00	1256302.08	3143638.65
142	3+525.00	1256285.05	3143620.56
143	3+550.00	1256269.36	3143601.11
144	3+575.00	1256249.28	3143586.34
145	3+600.00	1256225.76	3143579.21
146	3+625.00	1256229.53	3143566.84
147	3+650.00	1256254.28	3143563.38
148	3+675.00	1256279.25	3143564.30
149	3+700.00	1256303.89	3143568.22
150	3+725.00	1256328.33	3143573.46
151	3+750.00	1256353.27	3143572.85
152	3+775.00	1256378.24	3143573.56
153	3+800.00	1256380.79	3143558.75
154	3+825.00	1256356.17	3143554.38
155	3+850.00	1256334.49	3143543.38
156	3+875.00	1256315.32	3143527.39

CENTER LINE DATA			
S:No	Station	Northing	Easting
157	3+900.00	1256293.26	3143515.71
158	3+925.00	1256271.45	3143503.57
159	3+950.00	1256251.15	3143488.98
160	3+975.00	1256227.53	3143481.52
161	4+000.00	1256202.83	3143477.65
162	4+025.00	1256178.86	3143470.93
163	4+050.00	1256156.01	3143460.80
164	4+075.00	1256133.36	3143450.23
165	4+100.00	1256112.50	3143436.50
166	4+125.00	1256092.30	3143421.76
167	4+150.00	1256072.11	3143407.02
168	4+175.00	1256051.92	3143392.28
169	4+200.00	1256031.10	3143378.45
170	4+225.00	1256009.52	3143365.86
171	4+250.00	1255986.46	3143356.20
172	4+275.00	1255964.10	3143345.12
173	4+300.00	1255959.81	3143330.35
174	4+325.00	1255984.20	3143334.95
175	4+350.00	1256009.19	3143334.04
176	4+375.00	1256033.34	3143333.83
177	4+400.00	1256018.18	3143317.77
178	4+425.00	1255998.84	3143302.20
179	4+450.00	1255980.35	3143285.92
180	4+475.00	1255955.54	3143283.26
181	4+500.00	1255930.62	3143281.34
182	4+525.00	1255905.64	3143280.50
183	4+550.00	1255880.65	3143280.07
184	4+575.00	1255865.94	3143262.64
185	4+600.00	1255867.05	3143237.67
186	4+625.00	1255870.19	3143212.87
187	4+650.00	1255870.26	3143188.00
188	4+675.00	1255866.80	3143163.24
189	4+700.00	1255865.72	3143138.27
190	4+725.00	1255863.22	3143113.50
191	4+750.00	1255850.68	3143092.08
192	4+775.00	1255835.35	3143072.33
193	4+800.00	1255816.99	3143055.40
194	4+825.00	1255798.24	3143038.85
195	4+850.00	1255779.50	3143022.31
196	4+875.00	1255789.67	3143008.24
197	4+900.00	1255814.38	3142994.62
198	4+925.00	1255838.60	3142988.54
199	4+950.00	1255861.41	3142906.89
200	4+975.00	1255876.90	3143026.23
201	5+000.00	1255896.26	3143041.89
202	5+025.00	1255907.89	3143063.94
203	5+050.00	1255918.46	3143086.60
204	5+075.00	1255927.85	3143109.77
205	5+100.00	1255936.78	3143133.12
206	5+125.00	1255949.21	3143152.44
207	5+150.00	1255954.13	3143177.79
208	5+175.00	1255944.11	3143182.81

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES	PROJECT:	SCALE:	SHEET CONTENT
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT	 MINS CONSULTANT  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS	DESIGNED: REHMAT	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTH	





CENTER LINE DATA			
S.No	Station	Northing	Easting
209	5+200.00	1255943.12	3143057.83
210	5+225.00	1255942.65	3143032.85
211	5+250.00	1255945.83	3143008.07
212	5+275.00	1255940.92	3142984.00
213	5+300.00	1255930.38	3142961.33
214	5+325.00	1255924.56	3142937.33
215	5+350.00	1255927.70	3142912.53
216	5+375.00	1255924.47	3142887.95
217	5+400.00	1255917.02	3142864.09
218	5+425.00	1255905.96	3142841.68
219	5+450.00	1255894.46	3142819.49
220	5+475.00	1255874.78	3142805.35
221	5+500.00	1255850.60	3142798.97
222	5+525.00	1255826.12	3142794.06
223	5+550.00	1255806.48	3142784.61
224	5+575.00	1255829.27	3142776.61
225	5+600.00	1255854.04	3142774.37
226	5+625.00	1255874.44	3142767.67
227	5+650.00	1255852.78	3142757.18
228	5+675.00	1255828.59	3142751.09
229	5+700.00	1255809.72	3142742.96
230	5+725.00	1255833.52	3142736.29
231	5+750.00	1255857.55	3142729.76
232	5+775.00	1255877.80	3142722.06
233	5+800.00	1255857.25	3142711.25
234	5+825.00	1255834.27	3142701.90
235	5+850.00	1255812.93	3142689.10
236	5+875.00	1255789.62	3142695.25
237	5+900.00	1255773.59	3142713.31
238	5+925.00	1255759.31	3142732.55
239	5+950.00	1255734.55	3142732.44
240	5+975.00	1255710.97	3142731.44
241	6+000.00	1255728.02	3142718.47
242	6+025.00	1255748.81	3142706.90
243	6+050.00	1255757.88	3142683.89
244	6+075.00	1255778.22	3142669.49
245	6+100.00	1255785.28	3142646.18
246	6+125.00	1255796.35	3142625.19
247	6+150.00	1255819.44	3142615.89
248	6+175.00	1255804.96	3142605.34
249	6+200.00	1255781.74	3142612.60
250	6+225.00	1255764.52	3142630.72
251	6+250.00	1255746.24	3142647.62
252	6+275.00	1255722.91	3142656.52
253	6+300.00	1255699.29	3142664.69
254	6+325.00	1255674.48	3142665.53
255	6+350.00	1255650.10	3142669.49
256	6+375.00	1255628.76	3142682.48
257	6+400.00	1255607.59	3142695.78
258	6+425.00	1255592.28	3142715.03
259	6+450.00	1255584.09	3142738.65
260	6+475.00	1255573.27	3142760.90

CENTER LINE DATA			
S.No	Station	Northing	Easting
261	6+500.00	1255554.85	3142777.81
262	6+525.00	1255539.74	3142767.62
263	6+550.00	1255538.41	3142742.66
264	6+575.00	1255535.15	3142717.93
265	6+600.00	1255524.93	3142695.22
266	6+625.00	1255510.68	3142674.74
267	6+650.00	1255487.71	3142667.08
268	6+675.00	1255462.81	3142668.82
269	6+700.00	1255439.20	3142661.30
270	6+725.00	1255417.19	3142649.69
271	6+750.00	1255392.45	3142648.81
272	6+775.00	1255368.08	3142654.35
273	6+800.00	1255343.77	3142656.72
274	6+825.00	1255343.05	3142635.32
275	6+850.00	1255341.72	3142612.13
276	6+875.00	1255325.65	3142593.15
277	6+900.00	1255322.52	3142568.81
278	6+925.00	1255327.16	3142544.24
279	6+950.00	1255325.92	3142519.95
280	6+975.00	1255305.80	3142506.25
281	7+000.00	1255282.46	3142497.30
282	7+025.00	1255258.48	3142490.54
283	7+050.00	1255243.20	3142471.21
284	7+075.00	1255241.11	3142446.74
285	7+100.00	1255236.75	3142423.61
286	7+125.00	1255213.70	3142415.96
287	7+150.00	1255193.19	3142402.06
288	7+175.00	1255170.50	3142391.63
289	7+200.00	1255147.92	3142381.08
290	7+225.00	1255123.42	3142383.14
291	7+250.00	1255106.96	3142374.86
292	7+275.00	1255106.74	3142349.86
293	7+300.00	1255106.52	3142324.86
294	7+325.00	1255106.97	3142299.88
295	7+350.00	1255109.30	3142274.99
296	7+375.00	1255106.45	3142250.91
297	7+400.00	1255083.84	3142244.71
298	7+425.00	1255060.59	3142242.11
299	7+450.00	1255052.24	3142218.62
300	7+475.00	1255044.41	3142194.88
301	7+500.00	1255032.85	3142172.78
302	7+525.00	1255017.96	3142152.70
303	7+550.00	1255008.31	3142130.03
304	7+575.00	1255001.19	3142106.36
305	7+600.00	1254985.39	3142086.99
306	7+625.00	1254972.82	3142065.63
307	7+650.00	1254961.06	3142043.78
308	7+675.00	1254944.45	3142025.31
309	7+700.00	1254934.95	3142002.32
310	7+725.00	1254917.48	3141984.62
311	7+750.00	1254907.66	3141961.65
312	7+775.00	1254906.10	3141937.06

CENTER LINE DATA			
S.No	Station	Northing	Easting
313	7+800.00	1254897.39	3141913.84
314	7+825.00	1254886.51	3141891.33
315	7+850.00	1254874.76	3141869.29
316	7+875.00	1254878.83	3141861.78
317	7+900.00	1254894.32	3141881.39
318	7+925.00	1254911.65	3141899.41
319	7+950.00	1254930.57	3141915.60
320	7+975.00	1254949.18	3141931.96
321	8+000.00	1254967.33	3141937.55
322	8+025.00	1254955.09	3141916.59
323	8+050.00	1254940.63	3141896.20
324	8+075.00	1254927.38	3141875.00
325	8+100.00	1254915.42	3141853.07
326	8+125.00	1254904.53	3141830.57
327	8+150.00	1254893.65	3141808.06
328	8+175.00	1254884.76	3141784.72
329	8+200.00	1254879.38	3141760.33
330	8+225.00	1254876.84	3141735.46
331	8+250.00	1254874.51	3141710.57
332	8+275.00	1254867.34	3141686.92
333	8+300.00	1254858.41	3141664.92
334	8+325.00	1254875.71	3141647.11
335	8+350.00	1254895.65	3141632.26
336	8+375.00	1254919.02	3141623.39
337	8+400.00	1254930.77	3141603.19
338	8+425.00	1254925.65	3141578.72
339	8+450.00	1254942.61	3141566.16
340	8+475.00	1254966.79	3141561.42
341	8+500.00	1254978.98	3141540.62
342	8+525.00	1254982.06	3141515.81
343	8+550.00	1254978.72	3141491.47
344	8+575.00	1254962.79	3141472.35
345	8+600.00	1254958.13	3141448.53
346	8+625.00	1254960.98	3141423.74
347	8+650.00	1254968.94	3141400.20
348	8+675.00	1254962.46	3141376.42
349	8+700.00	1254967.08	3141351.86
350	8+725.00	1254977.92	3141330.68
351	8+750.00	1255001.39	3141322.07
352	8+775.00	1255024.88	3141313.51
353	8+800.00	1255042.71	3141297.92
354	8+825.00	1255046.28	3141273.18
355	8+850.00	1255044.06	3141249.22
356	8+875.00	1255028.62	3141230.20
357	8+900.00	1255023.43	3141205.75
358	8+925.00	1255018.26	3141181.29
359	8+950.00	1255010.70	3141157.65
360	8+975.00	1255005.85	3141134.84
361	9+000.00	1255012.48	3141110.76
362	9+025.00	1255012.16	3141085.88
363	9+050.00	1255006.14	3141061.63
364	9+075.00	1254994.96	3141039.33

CENTER LINE DATA			
S.No	Station	Northing	Easting
365	9+100.00	1254978.21	3141021.28
366	9+125.00	1254984.80	3140997.42
367	9+150.00	1254985.23	3140972.61
368	9+175.00	1254978.52	3140948.53
369	9+200.00	1254978.55	3140923.73
370	9+225.00	1254980.98	3140898.91
371	9+250.00	1254982.12	3140874.02
372	9+275.00	1254987.62	3140849.64
373	9+300.00	1254998.31	3140827.94
374	9+325.00	1255018.13	3140813.24
375	9+350.00	1255023.05	3140789.03
376	9+375.00	1255028.20	3140764.72
377	9+400.00	1255042.64	3140744.49
378	9+425.00	1255059.57	3140726.10
379	9+450.00	1255072.26	3140704.72
380	9+475.00	1255076.30	3140680.20
381	9+500.00	1255076.80	3140655.22
382	9+525.00	1255088.75	3140633.85
383	9+550.00	1255106.75	3140616.50
384	9+575.00	1255117.97	3140594.65
385	9+600.00	1255132.83	3140575.40
386	9+625.00	1255122.30	3140555.03
387	9+650.00	1255098.72	3140547.52
388	9+675.00	1255074.09	3140543.25
389	9+700.00	1255049.28	3140540.23
390	9+725.00	1255026.10	3140531.10
391	9+750.00	1255003.54	3140520.34
392	9+775.00	1254980.97	3140509.58
393	9+800.00	1254964.26	3140491.49
394	9+825.00	1254951.85	3140470.01
395	9+850.00	1254951.27	3140445.37
396	9+875.00	1254929.64	3140434.17
397	9+900.00	1254920.83	3140413.41
398	9+925.00	1254932.11	3140391.10
399	9+950.00	1254943.45	3140368.83
400	9+975.00	1254945.13	3140344.69
401	10+000.00	1254956.20	3140352.62
402	10+025.00	1254954.42	3140377.06
403	10+050.00	1254946.27	3140400.70
404	10+075.00	1254959.58	3140396.33
405	10+100.00	1254974.62	3140375.42
406	10+125.00	1254978.97	3140351.51
407	10+150.00	1254975.92	3140326.46
408	10+175.00	1254966.91	3140303.15
409	10+200.00	1254947.61	3140294.37
410	10+225.00	1254924.37	3140302.91
411	10+250.00	1254901.89	3140292.52
412	10+275.00	1254878.73	3140284.47
413	10+300.00	1254873.37	3140262.27
414	10+325.00	1254874.96	3140237.37
415	10+350.00	1254875.15	3140212.52
416	10+375.00	1254884.39	3140189.33

 <p>CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	 <p>DESIGN CONSULTANT: MINS CONSULTANT J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAK
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CENTER LINE DATA			
S:No	Station	Northing	Easting
417	10+400.00	1254891.57	3140165.51
418	10+425.00	1254895.81	3140140.87
419	10+450.00	1254884.02	3140121.01
420	10+475.00	1254860.18	3140125.58
421	10+500.00	1254836.31	3140122.53
422	10+525.00	1254817.54	3140106.57
423	10+550.00	1254804.52	3140085.23
424	10+575.00	1254793.71	3140062.79
425	10+600.00	1254785.68	3140039.11
426	10+625.00	1254765.18	3140030.19
427	10+650.00	1254740.79	3140035.68
428	10+675.00	1254716.31	3140040.62
429	10+700.00	1254693.86	3140031.37
430	10+725.00	1254678.54	3140011.63
431	10+750.00	1254668.04	3139988.98
432	10+775.00	1254662.84	3139964.59
433	10+800.00	1254661.90	3139939.61
434	10+825.00	1254657.59	3139915.11
435	10+850.00	1254645.19	3139893.55
436	10+875.00	1254628.14	3139875.27
437	10+900.00	1254612.73	3139855.77
438	10+925.00	1254609.13	3139831.27
439	10+950.00	1254607.71	3139806.46
440	10+975.00	1254589.63	3139789.50
441	11+000.00	1254571.14	3139772.77
442	11+025.00	1254560.19	3139750.42
443	11+050.00	1254551.08	3139727.14
444	11+075.00	1254543.37	3139703.40
445	11+100.00	1254540.88	3139678.57
446	11+125.00	1254543.35	3139653.71
447	11+150.00	1254546.47	3139628.92
448	11+175.00	1254528.46	3139617.05
449	11+200.00	1254503.74	3139617.84
450	11+225.00	1254483.44	3139603.48
451	11+250.00	1254463.97	3139587.81
452	11+275.00	1254443.34	3139573.78
453	11+300.00	1254423.08	3139559.24
454	11+325.00	1254415.22	3139537.95
455	11+350.00	1254433.37	3139520.98
456	11+375.00	1254442.46	3139499.62
457	11+400.00	1254429.12	3139478.71
458	11+425.00	1254438.36	3139456.55
459	11+450.00	1254452.86	3139436.19
460	11+475.00	1254467.96	3139416.31
461	11+500.00	1254487.07	3139400.19
462	11+525.00	1254498.54	3139378.42
463	11+550.00	1254506.73	3139356.27
464	11+575.00	1254483.49	3139348.23
465	11+600.00	1254461.16	3139337.05
466	11+625.00	1254438.47	3139326.72
467	11+650.00	1254429.13	3139304.34
468	11+675.00	1254439.11	3139282.51

CENTER LINE DATA			
S:No	Station	Northing	Easting
469	11+700.00	1254461.69	3139271.89
470	11+725.00	1254485.14	3139263.41
471	11+750.00	1254507.80	3139254.52
472	11+775.00	1254514.70	3139230.65
473	11+800.00	1254512.71	3139206.01
474	11+825.00	1254506.91	3139181.73
475	11+850.00	1254504.79	3139156.82
476	11+875.00	1254500.92	3139132.16
477	11+900.00	1254495.30	3139107.80
478	11+925.00	1254493.39	3139083.07
479	11+950.00	1254501.00	3139059.30
480	11+975.00	1254509.40	3139035.75
481	12+000.00	1254517.80	3139012.20
482	12+025.00	1254515.90	3138988.37
483	12+050.00	1254503.72	3138966.79
484	12+075.00	1254496.43	3138942.88
485	12+100.00	1254489.14	3138918.96
486	12+125.00	1254480.68	3138895.52
487	12+150.00	1254461.73	3138879.66
488	12+175.00	1254439.67	3138873.55
489	12+200.00	1254429.59	3138895.89
490	12+225.00	1254410.70	3138911.40
491	12+250.00	1254401.05	3138934.46
492	12+275.00	1254383.32	3138931.27
493	12+300.00	1254374.64	3138907.88
494	12+325.00	1254371.95	3138883.06
495	12+350.00	1254377.62	3138858.86
496	12+375.00	1254386.20	3138835.38
497	12+400.00	1254395.83	3138812.34
498	12+425.00	1254408.27	3138790.66
499	12+450.00	1254420.73	3138768.99
500	12+475.00	1254436.17	3138749.73
501	12+500.00	1254459.70	3138741.65
502	12+525.00	1254478.33	3138725.28
503	12+550.00	1254502.71	3138721.51
504	12+575.00	1254522.83	3138706.88
505	12+600.00	1254542.23	3138691.10
506	12+625.00	1254565.00	3138681.99
507	12+650.00	1254588.10	3138672.98
508	12+675.00	1254609.45	3138659.96
509	12+700.00	1254630.30	3138646.21
510	12+725.00	1254648.48	3138629.06
511	12+750.00	1254666.31	3138611.55
512	12+775.00	1254684.16	3138594.04
513	12+800.00	1254705.83	3138582.10
514	12+825.00	1254730.48	3138577.98
515	12+850.00	1254754.89	3138582.00
516	12+875.00	1254777.71	3138592.20
517	12+900.00	1254800.51	3138602.46
518	12+925.00	1254814.99	3138622.12
519	12+950.00	1254817.36	3138646.49
520	12+975.00	1254820.18	3138670.53

CENTER LINE DATA			
S:No	Station	Northing	Easting
521	13+000.00	1254819.80	3138690.81
522	13+025.00	1254797.30	3138701.69
523	13+050.00	1254780.75	3138720.12
524	13+075.00	1254784.92	3138740.34
525	13+100.00	1254808.46	3138747.90
526	13+125.00	1254833.17	3138751.58
527	13+150.00	1254855.92	3138761.86
528	13+175.00	1254868.02	3138781.21
529	13+200.00	1254870.92	3138805.44
530	13+225.00	1254892.52	3138817.48
531	13+250.00	1254917.37	3138819.94
532	13+275.00	1254942.11	3138817.13
533	13+300.00	1254965.37	3138808.03
534	13+325.00	1254988.16	3138797.80
535	13+350.00	1255005.80	3138780.41
536	13+375.00	1255013.76	3138756.92
537	13+400.00	1255019.53	3138732.71
538	13+425.00	1255035.90	3138713.91
539	13+450.00	1255053.13	3138695.80
540	13+475.00	1255059.08	3138672.57
541	13+500.00	1255049.44	3138649.53
542	13+525.00	1255065.04	3138636.47
543	13+550.00	1255089.16	3138634.96
544	13+575.00	1255097.30	3138612.64
545	13+600.00	1255098.38	3138587.77
546	13+625.00	1255119.43	3138578.35
547	13+650.00	1255137.29	3138563.33
548	13+675.00	1255136.00	3138538.46
549	13+700.00	1255133.67	3138513.57
550	13+725.00	1255131.33	3138488.68
551	13+750.00	1255128.99	3138463.79
552	13+775.00	1255128.00	3138438.92
553	13+800.00	1255141.11	3138417.85
554	13+825.00	1255151.52	3138395.40
555	13+850.00	1255150.23	3138370.62
556	13+875.00	1255145.62	3138346.05
557	13+900.00	1255136.52	3138323.01
558	13+925.00	1255123.57	3138301.62
559	13+950.00	1255115.19	3138278.16
560	13+975.00	1255108.86	3138253.98
561	14+000.00	1255102.54	3138229.79
562	14+025.00	1255096.21	3138205.60
563	14+050.00	1255100.06	3138182.76
564	14+075.00	1255120.34	3138168.14
565	14+100.00	1255139.75	3138152.55
566	14+125.00	1255145.25	3138128.91
567	14+150.00	1255133.47	3138107.08
568	14+175.00	1255119.62	3138086.27
569	14+200.00	1255103.93	3138066.87
570	14+225.00	1255086.65	3138048.80
571	14+250.00	1255083.41	3138026.50

CENTER LINE DATA			
S:No	Station	Northing	Easting
573	14+300.00	1255098.54	3137981.81
574	14+325.00	1255101.87	3137959.60
575	14+350.00	1255094.72	3137935.76
576	14+375.00	1255100.38	3137911.59
577	14+400.00	1255108.32	3137887.89
578	14+425.00	1255118.74	3137865.23
579	14+450.00	1255131.39	3137843.67
580	14+475.00	1255154.54	3137839.12
581	14+500.00	1255177.94	3137832.21
582	14+525.00	1255192.02	3137811.82
583	14+550.00	1255203.97	3137789.86
584	14+575.00	1255215.92	3137767.90
585	14+600.00	1255226.55	3137745.33
586	14+625.00	1255233.61	3137721.43
587	14+650.00	1255248.33	3137701.54
588	14+675.00	1255238.12	3137680.68
589	14+700.00	1255218.77	3137664.86
590	14+725.00	1255202.23	3137646.17
591	14+750.00	1255187.07	3137626.30
592	14+775.00	1255173.81	3137605.24
593	14+800.00	1255166.55	3137582.50
594	14+825.00	1255168.25	3137558.28
595	14+850.00	1255156.46	3137536.24
596	14+875.00	1255146.67	3137513.32
597	14+900.00	1255143.69	3137488.58
598	14+925.00	1255146.31	3137463.73
599	14+950.00	1255149.32	3137438.91
600	14+975.00	1255151.94	3137414.06
601	15+000.00	1255151.17	3137389.10
602	15+025.00	1255160.20	3137365.93
603	15+050.00	1255170.91	3137343.34
604	15+075.00	1255183.59	3137321.87
605	15+100.00	1255200.21	3137303.20
606	15+125.00	1255217.03	3137284.70
607	15+150.00	1255233.29	3137265.75
608	15+175.00	1255241.27	3137242.27
609	15+200.00	1255234.98	3137220.58
610	15+225.00	1255210.30	3137221.99
611	15+250.00	1255185.78	3137226.84
612	15+275.00	1255161.05	3137229.79
613	15+300.00	1255136.61	3137208.05
614	15+325.00	1255114.72	3137183.18
615	15+350.00	1255093.84	3137199.40
616	15+375.00	1255071.86	3137187.52
617	15+400.00	1255055.80	3137168.74
618	15+425.00	1255046.67	3137145.48
619	15+450.00	1255041.91	3137120.99
620	15+475.00	1255040.84	3137096.02
621	15+500.00	1255039.88	3137071.03
622	15+525.00	1255038.07	3137046.05
623	15+550.00	1255037.57	3137021.70
624	15+575.00	1255031.86	3136996.85

Project Director (PII)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar

1255168.25  
 1255168.25  
 1255168.25  
 1255



CENTER LINE DATA			
S.No	Station	Northing	Easting
625	15+600.00	1255025.35	3136972.71
626	15+625.00	1255025.68	3136947.72
627	15+650.00	1255026.38	3136922.73
628	15+675.00	1255027.08	3136897.74
629	15+700.00	1255028.31	3136872.78
630	15+725.00	1255033.08	3136848.27
631	15+750.00	1255040.30	3136824.33
632	15+775.00	1255047.57	3136800.41
633	15+800.00	1255054.83	3136776.49
634	15+825.00	1255061.84	3136752.50
635	15+850.00	1255065.08	3136727.75
636	15+875.00	1255064.70	3136702.76
637	15+900.00	1255065.05	3136677.80
638	15+925.00	1255075.06	3136655.16
639	15+950.00	1255087.86	3136633.77
640	15+975.00	1255093.45	3136609.51
641	16+000.00	1255090.87	3136584.76
642	16+025.00	1255081.69	3136561.53
643	16+050.00	1255074.54	3136537.87
644	16+075.00	1255085.28	3136515.68
645	16+100.00	1255092.70	3136492.58
646	16+125.00	1255093.42	3136467.99
647	16+150.00	1255105.89	3136446.33
648	16+175.00	1255122.53	3136427.78
649	16+200.00	1255143.02	3136413.73
650	16+225.00	1255167.15	3136407.38
651	16+250.00	1255190.83	3136400.13
652	16+275.00	1255200.34	3136377.85
653	16+300.00	1255208.04	3136354.18
654	16+325.00	1255212.46	3136330.47
655	16+350.00	1255191.92	3136318.23
656	16+375.00	1255169.80	3136307.25
657	16+400.00	1255157.22	3136285.98
658	16+425.00	1255143.66	3136265.32
659	16+450.00	1255129.89	3136244.75
660	16+475.00	1255105.79	3136239.47
661	16+500.00	1255082.20	3136231.20
662	16+525.00	1255058.61	3136222.93
663	16+550.00	1255035.02	3136214.65
664	16+575.00	1255011.43	3136206.38
665	16+600.00	1254987.84	3136198.11
666	16+625.00	1254964.84	3136188.37
667	16+650.00	1254943.50	3136175.37
668	16+675.00	1254922.93	3136161.23
669	16+700.00	1254905.17	3136143.63
670	16+725.00	1254884.74	3136129.34
671	16+750.00	1254863.99	3136115.44
672	16+775.00	1254847.77	3136096.51
673	16+800.00	1254833.04	3136076.32
674	16+825.00	1254818.31	3136056.12
675	16+850.00	1254803.57	3136035.92
676	16+875.00	1254788.25	3136016.19

CENTER LINE DATA			
S.No	Station	Northing	Easting
677	16+900.00	1254771.50	3135997.63
678	16+925.00	1254756.71	3135977.48
679	16+950.00	1254742.20	3135957.12
680	16+975.00	1254727.68	3135936.77
681	17+000.00	1254714.24	3135915.71
682	17+025.00	1254701.72	3135894.07
683	17+050.00	1254688.11	3135873.13
684	17+075.00	1254673.17	3135853.08
685	17+100.00	1254680.12	3135836.12
686	17+125.00	1254705.02	3135837.60
687	17+150.00	1254729.92	3135838.17
688	17+175.00	1254754.70	3135841.48
689	17+200.00	1254778.97	3135840.02
690	17+225.00	1254794.74	3135820.75
691	17+250.00	1254812.09	3135802.82
692	17+275.00	1254830.01	3135785.41
693	17+300.00	1254847.32	3135767.43
694	17+325.00	1254869.49	3135756.01
695	17+350.00	1254892.37	3135745.96
696	17+375.00	1254917.12	3135743.72
697	17+400.00	1254941.99	3135742.22
698	17+425.00	1254963.45	3135731.08
699	17+450.00	1254957.65	3135709.18
700	17+475.00	1254933.40	3135703.60
701	17+500.00	1254908.81	3135699.10
702	17+525.00	1254884.12	3135695.23
703	17+550.00	1254859.17	3135695.69
704	17+575.00	1254834.64	3135700.45
705	17+600.00	1254810.23	3135705.86
706	17+625.00	1254785.82	3135711.26
707	17+650.00	1254761.10	3135713.88
708	17+675.00	1254737.77	3135705.56
709	17+700.00	1254719.86	3135688.26
710	17+725.00	1254704.01	3135668.98
711	17+750.00	1254694.04	3135646.10
712	17+775.00	1254685.15	3135622.73
713	17+800.00	1254677.83	3135598.84
714	17+825.00	1254672.93	3135574.34
715	17+850.00	1254670.50	3135549.47
716	17+875.00	1254670.56	3135524.48
717	17+900.00	1254672.67	3135499.57
718	17+925.00	1254674.97	3135474.67
719	17+950.00	1254677.28	3135449.78
720	17+975.00	1254679.54	3135424.88
721	18+000.00	1254680.80	3135399.92
722	18+025.00	1254684.14	3135375.31
723	18+050.00	1254699.96	3135356.48
724	18+075.00	1254721.26	3135343.40
725	18+100.00	1254737.14	3135324.33
726	18+125.00	1254750.54	3135303.23
727	18+150.00	1254761.89	3135281.37
728	18+175.00	1254742.49	3135268.83

CENTER LINE DATA			
S.No	Station	Northing	Easting
729	18+200.00	1254718.40	3135262.16
730	18+225.00	1254694.31	3135255.49
731	18+250.00	1254670.38	3135248.28
732	18+275.00	1254647.58	3135238.04
733	18+300.00	1254625.00	3135227.32
734	18+325.00	1254602.41	3135216.61
735	18+350.00	1254579.82	3135205.89
736	18+375.00	1254558.13	3135193.53
737	18+400.00	1254538.99	3135177.50
738	18+425.00	1254521.23	3135159.90
739	18+450.00	1254502.44	3135143.45
740	18+475.00	1254482.59	3135128.25
741	18+500.00	1254465.62	3135110.02
742	18+525.00	1254450.14	3135090.45
743	18+550.00	1254432.80	3135072.45
744	18+575.00	1254416.38	3135053.60
745	18+600.00	1254400.41	3135034.37
746	18+625.00	1254382.85	3135016.60
747	18+650.00	1254364.53	3134999.58
748	18+675.00	1254344.44	3134985.04
749	18+700.00	1254320.31	3134978.58
750	18+725.00	1254297.33	3134968.76
751	18+750.00	1254272.92	3134963.70
752	18+775.00	1254248.63	3134958.21
753	18+800.00	1254225.82	3134947.99
754	18+825.00	1254201.84	3134941.08
755	18+850.00	1254176.99	3134938.40
756	18+875.00	1254152.40	3134934.48
757	18+900.00	1254131.61	3134920.99
758	18+925.00	1254114.29	3134902.96
759	18+950.00	1254097.39	3134884.55
760	18+975.00	1254084.26	3134863.34
761	19+000.00	1254075.91	3134839.81
762	19+025.00	1254068.84	3134815.83
763	19+050.00	1254061.77	3134791.85
764	19+075.00	1254057.63	3134767.25
765	19+100.00	1254055.42	3134742.35
766	19+125.00	1254040.60	3134727.45
767	19+150.00	1254025.06	3134745.16
768	19+175.00	1254019.84	3134769.55
769	19+200.00	1254018.42	3134794.51
770	19+225.00	1254005.28	3134813.86
771	19+250.00	1253982.81	3134807.14
772	19+275.00	1253964.71	3134789.92
773	19+300.00	1253945.61	3134773.96
774	19+325.00	1253930.76	3134753.97
775	19+350.00	1253910.21	3134739.75
776	19+375.00	1253893.88	3134721.02
777	19+400.00	1253883.39	3134698.34
778	19+425.00	1253877.33	3134674.15
779	19+450.00	1253874.40	3134649.34
780	19+475.00	1253866.55	3134625.62

CENTER LINE DATA			
S.No	Station	Northing	Easting
781	19+500.00	1253858.03	3134602.12
782	19+525.00	1253860.03	3134579.08
783	19+550.00	1253882.95	3134569.69
784	19+575.00	1253883.55	3134547.26
785	19+600.00	1253872.28	3134524.96
786	19+625.00	1253861.87	3134502.39
787	19+650.00	1253846.83	3134482.41
788	19+675.00	1253831.79	3134462.44
789	19+700.00	1253815.52	3134443.54
790	19+725.00	1253794.29	3134430.53
791	19+750.00	1253773.40	3134417.05
792	19+775.00	1253759.60	3134396.42
793	19+800.00	1253755.38	3134371.97
794	19+825.00	1253758.06	3134347.11
795	19+850.00	1253760.91	3134322.28
796	19+875.00	1253758.67	3134297.62
797	19+900.00	1253750.91	3134273.86
798	19+925.00	1253760.75	3134259.54
799	19+950.00	1253782.84	3134271.24
800	19+975.00	1253806.73	3134278.13
801	20+000.00	1253831.31	3134277.21
802	20+025.00	1253854.36	3134268.54
803	20+050.00	1253842.60	3134249.58
804	20+075.00	1253825.17	3134232.09
805	20+100.00	1253818.63	3134208.00
806	20+125.00	1253804.62	3134187.50
807	20+150.00	1253787.65	3134169.14
808	20+175.00	1253771.33	3134150.24
809	20+200.00	1253757.58	3134129.36
810	20+225.00	1253747.31	3134106.61
811	20+250.00	1253738.33	3134083.28
812	20+275.00	1253729.34	3134059.95
813	20+300.00	1253720.36	3134036.62
814	20+325.00	1253711.37	3134013.29
815	20+350.00	1253702.39	3133989.96
816	20+375.00	1253693.99	3133966.43
817	20+400.00	1253689.30	3133941.88
818	20+425.00	1253687.74	3133916.98
819	20+450.00	1253690.71	3133892.17
820	20+475.00	1253702.15	3133870.31
821	20+500.00	1253722.48	3133856.46
822	20+525.00	1253727.50	3133833.77
823	20+550.00	1253711.66	3133814.56
824	20+575.00	1253700.83	3133792.43
825	20+600.00	1253712.87	3133772.03
826	20+625.00	1253733.92	3133758.55
827	20+650.00	1253744.90	3133736.98
828	20+675.00	1253736.40	3133713.92
829	20+700.00	1253721.21	3133694.29
830	20+725.00	1253699.10	3133683.08
831	20+750.00	1253674.43	3133670.07
832	20+775.00	1253649.72	3133675.27



CENTER LINE DATA			
S:No	Station	Northing	Easting
833	20+800.00	1253625.61	3133669.05
834	20+825.00	1253604.96	3133655.18
835	20+850.00	1253590.34	3133635.06
836	20+875.00	1253579.29	3133612.63
837	20+900.00	1253568.80	3133589.96
838	20+925.00	1253563.32	3133565.63
839	20+950.00	1253563.95	3133540.70
840	20+975.00	1253566.17	3133515.81
841	21+000.00	1253564.81	3133490.87
842	21+025.00	1253560.03	3133466.34
843	21+050.00	1253551.69	3133442.88
844	21+075.00	1253542.43	3133419.74
845	21+100.00	1253533.69	3133396.47
846	21+125.00	1253520.91	3133374.98
847	21+150.00	1253509.80	3133352.59
848	21+175.00	1253497.45	3133330.91
849	21+200.00	1253482.16	3133311.14
850	21+225.00	1253469.29	3133289.73
851	21+250.00	1253457.37	3133267.76
852	21+275.00	1253445.45	3133245.78
853	21+300.00	1253433.54	3133223.80
854	21+325.00	1253421.62	3133201.82
855	21+350.00	1253409.03	3133180.24
856	21+375.00	1253393.53	3133160.66
857	21+400.00	1253375.63	3133143.21
858	21+425.00	1253357.46	3133126.04
859	21+450.00	1253340.09	3133108.07
860	21+475.00	1253323.62	3133089.26
861	21+500.00	1253307.19	3133070.42
862	21+525.00	1253290.75	3133051.59
863	21+550.00	1253274.31	3133032.75
864	21+575.00	1253257.88	3133013.91
865	21+600.00	1253241.44	3132995.07
866	21+625.00	1253225.00	3132976.24
867	21+650.00	1253208.57	3132957.40
868	21+675.00	1253192.13	3132938.56
869	21+700.00	1253175.69	3132919.73
870	21+725.00	1253159.18	3132900.96
871	21+750.00	1253140.43	3132884.48
872	21+775.00	1253119.25	3132871.22
873	21+800.00	1253097.74	3132858.48
874	21+825.00	1253076.46	3132845.38
875	21+850.00	1253057.28	3132829.34
876	21+875.00	1253038.27	3132813.12
877	21+900.00	1253016.94	3132800.17
878	21+925.00	1252994.64	3132788.88
879	21+950.00	1252973.30	3132775.89
880	21+975.00	1252952.46	3132762.08
881	22+000.00	1252936.65	3132743.30
882	22+025.00	1252935.94	3132718.78
883	22+050.00	1252944.77	3132695.39
884	22+075.00	1252953.92	3132672.13

CENTER LINE DATA			
S:No	Station	Northing	Easting
885	22+100.00	1252967.25	3132651.06
886	22+125.00	1252983.33	3132631.91
887	22+150.00	1252999.16	3132612.57
888	22+175.00	1253012.21	3132591.26
889	22+200.00	1253024.96	3132569.76
890	22+225.00	1253037.72	3132548.25
891	22+250.00	1253048.47	3132525.74
892	22+275.00	1253059.74	3132503.50
893	22+300.00	1253077.12	3132485.67
894	22+325.00	1253097.04	3132470.56
895	22+350.00	1253116.30	3132454.63
896	22+375.00	1253135.37	3132438.47
897	22+400.00	1253154.45	3132422.31
898	22+425.00	1253173.52	3132406.15
899	22+450.00	1253192.60	3132389.99
900	22+475.00	1253209.94	3132372.11
901	22+500.00	1253221.05	3132349.79
902	22+525.00	1253231.54	3132327.18
903	22+550.00	1253253.76	3132317.23
904	22+575.00	1253278.17	3132311.96
905	22+600.00	1253293.36	3132293.42
906	22+625.00	1253286.04	3132270.55
907	22+650.00	1253269.51	3132251.79
908	22+675.00	1253253.86	3132232.36
909	22+700.00	1253245.88	3132208.84
910	22+725.00	1253241.70	3132184.19
911	22+750.00	1253237.53	3132159.54
912	22+775.00	1253233.35	3132134.89
913	22+800.00	1253228.91	3132110.30
914	22+825.00	1253222.20	3132086.23
915	22+850.00	1253212.89	3132063.04
916	22+875.00	1253201.24	3132040.93
917	22+900.00	1253189.06	3132019.10
918	22+925.00	1253176.32	3131997.59
919	22+950.00	1253161.10	3131977.79
920	22+975.00	1253143.44	3131960.12
921	23+000.00	1253123.64	3131944.88
922	23+025.00	1253102.04	3131932.33
923	23+050.00	1253079.60	3131921.30
924	23+075.00	1253057.19	3131910.23
925	23+100.00	1253042.98	3131890.58
926	23+125.00	1253040.24	3131865.74
927	23+150.00	1253037.63	3131840.87
928	23+175.00	1253034.36	3131816.10
929	23+200.00	1253027.16	3131792.20
930	23+225.00	1253016.25	3131769.72
931	23+250.00	1253004.74	3131747.52
932	23+275.00	1252993.24	3131725.32
933	23+300.00	1252988.83	3131701.10
934	23+325.00	1252995.47	3131677.05
935	23+350.00	1252996.28	3131652.14
936	23+375.00	1252995.17	3131627.16

CENTER LINE DATA			
S:No	Station	Northing	Easting
937	23+400.00	1252995.00	3131602.20
938	23+425.00	1253002.89	3131578.63
939	23+450.00	1253012.59	3131555.64
940	23+475.00	1253018.24	3131531.29
941	23+500.00	1253023.36	3131506.83
942	23+525.00	1253027.24	3131482.13
943	23+550.00	1253031.09	3131457.43
944	23+575.00	1253034.93	3131432.72
945	23+600.00	1253039.69	3131408.20
946	23+625.00	1253047.69	3131384.52
947	23+650.00	1253054.72	3131360.57
948	23+675.00	1253060.29	3131336.19
949	23+700.00	1253065.85	3131311.82
950	23+725.00	1253071.41	3131287.44
951	23+750.00	1253076.97	3131263.07
952	23+775.00	1253081.62	3131238.53
953	23+800.00	1253080.71	3131213.62
954	23+825.00	1253073.85	3131189.62
955	23+850.00	1253065.35	3131166.11
956	23+875.00	1253057.17	3131142.50
957	23+900.00	1253056.82	3131117.71
958	23+925.00	1253066.76	3131094.92
959	23+950.00	1253078.95	3131073.11
960	23+975.00	1253076.56	3131049.17
961	24+000.00	1253056.74	3131034.39
962	24+025.00	1253035.50	3131021.22
963	24+050.00	1253017.93	3131003.52
964	24+075.00	1253005.02	3130982.64
965	24+100.00	1253013.18	3130959.97
966	24+125.00	1253023.29	3130937.56
967	24+150.00	1253024.45	3130912.59
968	24+175.00	1253020.17	3130888.11
969	24+200.00	1253010.03	3130865.26
970	24+225.00	1253001.12	3130841.96
971	24+250.00	1252995.87	3130817.51
972	24+275.00	1252991.28	3130792.96
973	24+300.00	1252989.09	3130768.06
974	24+325.00	1252983.42	3130743.74
975	24+350.00	1252974.44	3130720.42
976	24+375.00	1252965.07	3130697.24
977	24+400.00	1252953.76	3130674.95
978	24+425.00	1252942.42	3130652.70
979	24+450.00	1252942.14	3130627.89
980	24+475.00	1252946.32	3130603.49
981	24+500.00	1252966.55	3130589.53
982	24+525.00	1252989.78	3130580.39
983	24+550.00	1253013.25	3130571.83
984	24+575.00	1253035.63	3130560.67
985	24+600.00	1253057.21	3130548.14
986	24+625.00	1253075.44	3130531.12
987	24+650.00	1253089.70	3130510.61
988	24+675.00	1253098.98	3130488.24

CENTER LINE DATA			
S:No	Station	Northing	Easting
989	24+700.00	1253079.32	3130478.75
990	24+725.00	1253060.16	3130494.74
991	24+750.00	1253041.32	3130511.17
992	24+775.00	1253018.74	3130520.99
993	24+800.00	1252993.79	3130522.44
994	24+825.00	1252968.84	3130521.62
995	24+850.00	1252944.47	3130516.19
996	24+875.00	1252920.43	3130509.32
997	24+900.00	1252896.68	3130501.58
998	24+925.00	1252874.95	3130489.28
999	24+950.00	1252853.72	3130476.07
1000	24+975.00	1252831.48	3130464.78
1001	25+000.00	1252807.31	3130458.50
1002	25+025.00	1252782.83	3130453.42
1003	25+050.00	1252759.27	3130445.40
1004	25+075.00	1252735.74	3130437.54
1005	25+100.00	1252711.55	3130442.56
1006	25+125.00	1252688.61	3130452.51
1007	25+150.00	1252665.68	3130462.46
1008	25+175.00	1252642.07	3130470.43
1009	25+200.00	1252617.41	3130471.52
1010	25+225.00	1252608.13	3130449.75
1011	25+250.00	1252588.92	3130435.69
1012	25+275.00	1252566.32	3130425.16
1013	25+300.00	1252544.43	3130413.12
1014	25+325.00	1252520.04	3130408.54
1015	25+350.00	1252495.27	3130407.79
1016	25+375.00	1252473.81	3130395.03
1017	25+400.00	1252450.94	3130385.27
1018	25+425.00	1252426.09	3130384.11
1019	25+450.00	1252401.17	3130386.07
1020	25+475.00	1252376.24	3130388.02
1021	25+500.00	1252351.32	3130389.98
1022	25+525.00	1252326.40	3130391.96
1023	25+550.00	1252301.66	3130395.48
1024	25+575.00	1252277.16	3130400.48
1025	25+600.00	1252252.58	3130404.89
1026	25+625.00	1252227.82	3130401.85
1027	25+650.00	1252203.09	3130398.51
1028	25+675.00	1252178.71	3130403.75
1029	25+700.00	1252154.40	3130399.51
1030	25+725.00	1252132.13	3130398.72
1031	25+750.00	1252107.72	3130394.69
1032	25+775.00	1252082.97	3130392.30
1033	25+800.00	1252064.27	3130376.10
1034	25+825.00	1252047.35	3130357.70
1035	25+850.00	1252034.55	3130336.46
1036	25+875.00	1252031.56	3130311.77
1037	25+900.00	1252031.35	3130286.78
1038	25+925.00	1252029.48	3130261.89
1039	25+950.00	1252024.01	3130237.50
1040	25+975.00	1252018.47	3130213.12



CENTER LINE DATA			
S.No	Station	Northing	Easting
1041	26+000.00	1252012.25	3130188.91
1042	26+025.00	1252003.99	3130165.32
1043	26+050.00	1251995.65	3130141.75
1044	26+075.00	1251987.35	3130118.17
1045	26+100.00	1251982.82	3130093.65
1046	26+125.00	1251981.71	3130068.67
1047	26+150.00	1251974.07	3130045.28
1048	26+175.00	1251971.84	3130020.79
1049	26+200.00	1251974.12	3129995.90
1050	26+225.00	1251973.36	3129970.94
1051	26+250.00	1251968.64	3129946.41
1052	26+275.00	1251962.89	3129922.08
1053	26+300.00	1251957.13	3129897.75
1054	26+325.00	1251951.51	3129873.39
1055	26+350.00	1251948.08	3129848.64
1056	26+375.00	1251945.29	3129823.80
1057	26+400.00	1251939.10	3129799.62
1058	26+425.00	1251936.09	3129775.48
1059	26+450.00	1251941.85	3129752.53
1060	26+475.00	1251919.45	3129744.54
1061	26+500.00	1251894.57	3129742.08
1062	26+525.00	1251870.31	3129736.68
1063	26+550.00	1251847.23	3129727.08
1064	26+575.00	1251824.52	3129716.67
1065	26+600.00	1251805.44	3129701.30
1066	26+625.00	1251799.68	3129677.02
1067	26+650.00	1251794.58	3129652.55
1068	26+675.00	1251798.96	3129628.07
1069	26+700.00	1251790.84	3129605.07
1070	26+725.00	1251773.46	3129587.52
1071	26+750.00	1251749.39	3129581.75
1072	26+775.00	1251729.80	3129568.13
1073	26+800.00	1251716.55	3129546.93
1074	26+825.00	1251702.46	3129526.30
1075	26+850.00	1251686.06	3129507.43
1076	26+875.00	1251668.78	3129489.39
1077	26+900.00	1251648.46	3129474.92
1078	26+925.00	1251625.57	3129464.96
1079	26+950.00	1251601.62	3129457.79
1080	26+975.00	1251577.67	3129450.65
1081	27+000.00	1251553.71	3129443.50
1082	27+025.00	1251529.75	3129436.35
1083	27+050.00	1251506.04	3129428.52
1084	27+075.00	1251486.13	3129413.68
1085	27+100.00	1251471.84	3129393.20
1086	27+125.00	1251458.13	3129372.29
1087	27+150.00	1251445.54	3129350.74
1088	27+175.00	1251436.08	3129327.60
1089	27+200.00	1251419.58	3129309.22
1090	27+225.00	1251396.35	3129300.23
1091	27+250.00	1251376.95	3129285.58
1092	27+275.00	1251369.33	3129261.82

CENTER LINE DATA			
S.No	Station	Northing	Easting
1093	27+300.00	1251362.41	3129237.80
1094	27+325.00	1251355.50	3129213.78
1095	27+350.00	1251349.21	3129189.59
1096	27+375.00	1251344.55	3129165.03
1097	27+400.00	1251324.13	3129156.98
1098	27+425.00	1251299.72	3129156.86
1099	27+450.00	1251285.20	3129137.12
1100	27+475.00	1251267.41	3129119.84
1101	27+500.00	1251258.40	3129096.66
1102	27+525.00	1251237.59	3129083.83
1103	27+550.00	1251227.46	3129061.41
1104	27+575.00	1251219.69	3129037.64
1105	27+600.00	1251211.91	3129013.88
1106	27+625.00	1251204.11	3128990.13
1107	27+650.00	1251194.64	3128967.01
1108	27+675.00	1251184.34	3128944.23
1109	27+700.00	1251173.87	3128921.53
1110	27+725.00	1251161.49	3128899.83
1111	27+750.00	1251146.83	3128879.59
1112	27+775.00	1251130.08	3128861.04
1113	27+800.00	1251111.43	3128844.42
1114	27+825.00	1251091.52	3128829.30
1115	27+850.00	1251071.55	3128814.25
1116	27+875.00	1251051.59	3128799.21
1117	27+900.00	1251031.60	3128784.19
1118	27+925.00	1251010.88	3128770.21
1119	27+950.00	1250989.18	3128757.82
1120	27+975.00	1250966.62	3128747.05
1121	28+000.00	1250943.81	3128736.81
1122	28+025.00	1250921.01	3128726.56
1123	28+050.00	1250897.30	3128718.80
1124	28+075.00	1250872.46	3128716.42
1125	28+100.00	1250847.61	3128718.95
1126	28+125.00	1250822.83	3128722.28
1127	28+150.00	1250797.91	3128724.17
1128	28+175.00	1250772.94	3128725.40
1129	28+200.00	1250747.97	3128726.60
1130	28+225.00	1250723.00	3128725.74
1131	28+250.00	1250698.11	3128723.45
1132	28+275.00	1250673.14	3128723.81
1133	28+300.00	1250648.55	3128728.15
1134	28+325.00	1250624.93	3128736.29
1135	28+350.00	1250601.49	3128744.90
1136	28+375.00	1250576.67	3128746.76
1137	28+400.00	1250552.21	3128741.75
1138	28+425.00	1250527.90	3128735.91
1139	28+450.00	1250503.59	3128730.06
1140	28+475.00	1250479.87	3128722.77
1141	28+500.00	1250474.45	3128699.50
1142	28+525.00	1250474.75	3128674.52
1143	28+550.00	1250461.36	3128654.41
1144	28+575.00	1250437.19	3128648.75

CENTER LINE DATA			
S.No	Station	Northing	Easting
1145	28+600.00	1250412.65	3128644.12
1146	28+625.00	1250389.79	3128634.15
1147	28+650.00	1250368.63	3128620.95
1148	28+675.00	1250370.22	3128598.29
1149	28+700.00	1250384.07	3128577.47
1150	28+725.00	1250394.36	3128555.07
1151	28+750.00	1250388.32	3128531.13
1152	28+775.00	1250384.64	3128506.77
1153	28+800.00	1250391.32	3128482.72
1154	28+825.00	1250387.00	3128458.51
1155	28+850.00	1250375.19	3128436.48
1156	28+875.00	1250363.86	3128414.20
1157	28+900.00	1250354.68	3128390.96
1158	28+925.00	1250346.29	3128367.41
1159	28+950.00	1250336.87	3128344.25
1160	28+975.00	1250329.99	3128320.32
1161	29+000.00	1250324.49	3128295.98
1162	29+025.00	1250315.54	3128272.63
1163	29+050.00	1250326.87	3128257.29
1164	29+075.00	1250349.50	3128267.90
1165	29+100.00	1250372.16	3128278.46
1166	29+125.00	1250395.56	3128287.25
1167	29+150.00	1250419.73	3128293.57
1168	29+175.00	1250444.35	3128297.92
1169	29+200.00	1250469.00	3128302.10
1170	29+225.00	1250493.64	3128306.29
1171	29+250.00	1250518.25	3128310.71
1172	29+275.00	1250542.67	3128316.06
1173	29+300.00	1250567.07	3128321.47
1174	29+325.00	1250591.99	3128322.60
1175	29+350.00	1250616.95	3128321.29
1176	29+375.00	1250641.44	3128325.10
1177	29+400.00	1250664.12	3128335.61
1178	29+425.00	1250687.01	3128345.62
1179	29+450.00	1250711.68	3128349.25
1180	29+475.00	1250736.30	3128353.24
1181	29+500.00	1250760.38	3128359.94
1182	29+525.00	1250785.01	3128361.42
1183	29+550.00	1250809.82	3128360.28
1184	29+575.00	1250833.15	3128369.12
1185	29+600.00	1250857.81	3128373.22
1186	29+625.00	1250881.45	3128381.30
1187	29+650.00	1250904.90	3128389.97
1188	29+675.00	1250928.34	3128398.65
1189	29+700.00	1250951.66	3128407.65
1190	29+725.00	1250972.64	3128421.12
1191	29+750.00	1250992.18	3128436.71
1192	29+775.00	1251011.72	3128452.31
1193	29+800.00	1251031.26	3128467.91
1194	29+825.00	1251051.33	3128482.79
1195	29+850.00	1251072.77	3128495.62
1196	29+875.00	1251095.39	3128506.25

CENTER LINE DATA			
S.No	Station	Northing	Easting
1197	29+900.00	1251118.96	3128514.56
1198	29+925.00	1251143.03	3128521.30
1199	29+950.00	1251167.12	3128527.99
1200	29+975.00	1251191.21	3128534.69
1201	30+000.00	1251215.16	3128541.82
1202	30+025.00	1251238.45	3128550.90
1203	30+050.00	1251261.60	3128560.33
1204	30+075.00	1251284.76	3128569.76
1205	30+100.00	1251307.93	3128579.15
1206	30+125.00	1251331.48	3128587.52
1207	30+150.00	1251355.22	3128595.36
1208	30+175.00	1251378.96	3128603.20
1209	30+200.00	1251402.70	3128611.04
1210	30+225.00	1251426.44	3128618.88
1211	30+250.00	1251450.18	3128626.72
1212	30+275.00	1251474.25	3128633.42
1213	30+300.00	1251498.56	3128639.27
1214	30+325.00	1251522.86	3128645.12
1215	30+350.00	1251547.17	3128650.96
1216	30+375.00	1251571.49	3128656.77
1217	30+400.00	1251596.12	3128660.97
1218	30+425.00	1251621.05	3128662.70
1219	30+450.00	1251646.04	3128663.45
1220	30+475.00	1251671.03	3128664.21
1221	30+500.00	1251696.02	3128664.96
1222	30+525.00	1251721.01	3128665.35
1223	30+550.00	1251745.96	3128663.91
1224	30+575.00	1251770.88	3128661.89
1225	30+600.00	1251795.77	3128659.55
1226	30+625.00	1251820.53	3128656.07
1227	30+650.00	1251845.26	3128652.47
1228	30+675.00	1251870.00	3128648.86
1229	30+700.00	1251894.74	3128645.26
1230	30+725.00	1251919.48	3128641.66
1231	30+750.00	1251944.22	3128638.06
1232	30+775.00	1251968.96	3128634.46
1233	30+800.00	1251993.55	3128630.00
1234	30+825.00	1252018.02	3128624.85
1235	30+850.00	1252042.48	3128619.69
1236	30+875.00	1252066.94	3128614.54
1237	30+900.00	1252091.21	3128609.55
1238	30+925.00	1252114.99	3128600.85
1239	30+950.00	1252138.56	3128592.57
1240	30+975.00	1252157.58	3128577.18
1241	30+984.97	1252158.47	3128567.30



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINS CONSULTANT J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	
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# HORIZONTAL CURVE DATA



Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.





Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C1	0+032.29	3145143.6237	1256611.0215	0+014.50	3145139.4869	1256628.3318	0+045.37	3145128.5512	1256601.5569	24.81	30.88	17.798	71.3141	S22° 13' 00.40"W
C2	0+077.98	3145100.9398	1256584.2187	0+067.77	3145109.5810	1256589.6448	0+087.96	3145094.7901	1256576.0766	55.57	20.18	10.204	20.8104	S47° 28' 07.03"W
C3	0+124.76	3145072.6055	1256546.7042	0+106.32	3145083.7214	1256561.4217	0+140.88	3145054.1948	1256545.6013	40.00	34.56	18.444	49.5080	S61° 49' 02.82"W
C4	0+244.01	3144951.2504	1256539.4338	0+231.83	3144963.6087	1256540.1742	0+255.65	3144941.4711	1256531.8416	40.00	24.01	12.380	34.3958	S69° 22' 24.93"W
C5	0+320.41	3144890.3165	1256492.1272	0+307.18	3144900.7678	1256500.2412	0+332.30	3144888.5408	1256479.0157	32.37	25.12	13.231	44.4633	S29° 56' 38.71"W
C6	0+345.49	3144886.7706	1256465.9445	0+335.58	3144888.1002	1256475.7619	0+354.44	3144879.0771	1256459.7027	25.00	18.86	9.907	43.2353	S29° 19' 48.29"W
C7	0+389.13	3144852.1423	1256437.8506	0+375.02	3144863.0967	1256446.7379	0+403.19	3144842.5438	1256427.5138	200.00	28.17	14.106	8.0689	S46° 54' 47.81"W
C8	0+430.47	3144823.9788	1256407.5207	0+419.98	3144831.1150	1256415.2058	0+440.50	3144813.9900	1256404.3255	40.00	20.51	10.487	29.3829	S57° 34' 13.08"W
C9	0+480.01	3144776.3554	1256392.2870	0+464.15	3144791.4592	1256397.1184	0+492.42	3144774.2891	1256376.5644	25.00	28.26	15.858	64.7748	S39° 52' 27.65"W
C10	0+522.13	3144770.4176	1256347.1055	0+510.75	3144771.9003	1256356.3878	0+532.11	3144760.9356	1256340.8139	25.00	21.36	11.379	48.9478	S31° 57' 38.97"W
C11	0+561.36	3144736.5616	1256324.6411	0+552.57	3144743.8829	1256329.4991	0+570.01	3144730.9850	1256317.8512	58.66	17.44	8.786	17.0382	S47° 54' 56.24"W
C12	0+633.45	3144690.7238	1256268.8304	0+613.92	3144703.1173	1256283.9204	0+648.42	3144671.9907	1256274.3421	29.50	34.50	19.527	66.9984	S72° 53' 44.75"W
C13	0+694.75	3144627.5454	1256287.4188	0+686.76	3144635.2103	1256285.1636	0+702.65	3144619.5591	1256287.6560	61.97	15.89	7.990	14.6939	N80° 57' 07.12"W
C14	0+729.70	3144592.5200	1256288.4590	0+715.07	3144607.1515	1256288.0245	0+740.34	3144588.5102	1256302.5370	20.00	25.27	14.638	72.4006	N52° 05' 55.15"W
C15	0+791.19	3144574.5816	1256351.4390	0+772.99	3144579.5665	1256333.9373	0+802.52	3144556.6883	1256348.1240	20.00	29.53	18.198	84.5975	N58° 11' 49.70"W
C16	0+827.83	3144531.7992	1256343.5129	0+814.25	3144545.1480	1256345.9860	0+840.97	3144518.6666	1256346.9537	60.79	26.71	13.576	25.1777	N87° 54' 25.35"W
C17	0+883.14	3144477.8710	1256357.6425	0+869.16	3144491.3928	1256354.0996	0+896.42	3144464.4723	1256353.6592	50.00	27.26	13.978	31.2383	S89° 03' 45.69"W
C18	0+942.03	3144420.7559	1256340.6630	0+924.07	3144437.9740	1256345.7817	0+957.83	3144405.4911	1256350.1314	40.00	33.77	17.963	48.3671	N82° 22' 22.50"W
C19	0+982.73	3144384.3381	1256363.2523	0+971.99	3144393.4636	1256357.5919	0+993.34	3144374.0595	1256366.3612	81.67	21.35	10.738	14.9817	N65° 40' 48.78"W
C20	1+012.56	3144355.6657	1256371.9248	1+004.45	3144363.4290	1256369.5766	1+020.13	3144350.7595	1256378.3833	25.00	15.69	8.111	35.9488	N55° 11' 47.84"W
C21	1+044.22	3144336.1868	1256397.5668	1+032.88	3144343.0477	1256388.5351	1+053.85	3144324.8483	1256397.2796	22.15	20.96	11.342	54.2284	N64° 20' 10.95"W
C22	1+091.79	3144286.9133	1256396.3190	1+081.25	3144297.4571	1256396.5860	1+101.78	3144277.8703	1256401.7473	36.27	20.53	10.547	32.4256	N75° 14' 15.83"W
C23	1+197.95	3144195.4107	1256451.2453	1+176.31	3144213.9614	1256440.1098	1+219.44	3144179.4772	1256465.8826	213.06	43.12	21.636	11.5970	N53° 13' 35.11"W
C24	1+314.89	3144109.3338	1256530.3196	1+302.14	3144118.5750	1256521.8302	1+327.18	3144101.6316	1256540.2264	150.00	25.04	12.549	9.5642	N42° 38' 44.94"W
C25	1+367.53	3144076.8613	1256572.0869	1+352.35	3144086.1807	1256580.1000	1+382.47	3144071.6484	1256586.3473	97.05	30.12	15.183	17.7835	N28° 58' 19.01"W
C26	1+447.31	3144049.3879	1256647.2421	1+436.90	3144052.9634	1256637.4611	1+457.43	3144042.2048	1256654.7823	50.00	20.53	10.414	23.5307	N31° 50' 44.00"W
C27	1+482.12	3144025.1765	1256672.8569	1+472.02	3144032.1383	1256665.3490	1+492.05	3144020.7498	1256681.7276	65.21	20.03	10.093	17.5979	N34° 48' 43.04"W
C28	1+746.22	3143909.2772	1256910.1490	1+515.09	3144010.6471	1256702.4294	1+546.46	3143991.8146	1256694.2535	10.28	31.37	231.135	174.9090	S66° 31' 57.05"W
C29	1+605.07	3144012.7446	1256639.5063	1+593.50	3144008.6142	1256650.3102	1+616.55	3144014.4952	1256628.0730	108.08	23.05	11.567	12.2165	S14° 48' 49.36"E
C30	1+636.57	3144017.5256	1256608.2824	1+628.86	3144016.3587	1256615.9033	1+644.25	3144019.7945	1256600.9142	104.86	15.39	7.710	8.4102	S12° 54' 37.96"E
C31	1+734.08	3144046.2321	1256515.0608	1+724.38	3144043.3763	1256524.3350	1+743.78	3144048.4579	1256505.6155	288.28	19.40	9.704	3.8558	S15° 11' 15.83"E
C32	1+764.36	3144053.1779	1256485.5858	1+751.94	3144050.3301	1256497.6705	1+776.33	3144061.1202	1256476.0428	52.71	24.39	12.416	26.5092	S26° 30' 51.88"E
C33	1+815.85	3144086.4034	1256445.6635	1+796.89	3144074.2718	1256460.2402	1+834.37	3144092.3557	1256427.6572	100.00	37.48	18.965	21.4768	S29° 01' 50.19"E
C34	1+896.93	3144111.9922	1256368.2547	1+887.03	3144108.8830	1256377.6603	1+905.63	3144106.9715	1256359.7151	21.87	18.60	9.906	48.7451	S6° 04' 49.28"W
C35	1+942.34	3144086.3672	1256328.0719	1+917.91	3144100.7466	1256349.1276	1+949.58	3144074.0504	1256347.8614	15.96	31.67	24.425	113.6632	S87° 17' 04.25"W
C36	2+009.38	3144039.0022	1256396.3073	1+997.33	3144046.0605	1256386.5508	2+021.34	3144033.9808	1256407.2523	122.38	24.01	12.042	11.2390	N30° 15' 51.84"W
C37	2+046.59	3144023.4504	1256430.2051	2+039.40	3144026.4487	1256423.6698	2+053.59	3144018.1478	1256435.0612	35.54	14.19	7.190	22.8719	N36° 04' 51.05"W
C38	2+074.23	3144002.9315	1256448.9962	2+063.26	3144011.0174	1256441.5912	2+085.01	3143997.5036	1256458.5228	69.84	21.75	10.964	17.8439	N38° 35' 41.39"W
C39	2+128.29	3143976.0805	1256496.1228	2+120.29	3143980.0381	1256489.1767	2+136.27	3143972.8108	1256503.4181	165.48	15.98	7.995	5.5319	N26° 54' 25.00"W
C40	2+210.07	3143942.6275	1256570.7645	2+155.08	3143965.1159	1256520.5874	2+183.57	3143945.4764	1256515.8523	10.28	28.49	54.986	158.8288	S76° 26' 40.48"W

*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: MINS CONSULTANT J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) TOURISM ROAD	SCALE	SHEET CONTENT
		a	AUG, 2024	TENDER DRAWINGS	DESIGNED: REHMAT		NTS:	HORIZONTAL CURVE DATA DWGNO. CEC/KP-RRDP/HWN-SWT-T4/HCD-01
		b			DRAWN: INAM ULLAH		DATE:	
		c			CHECKED: S-DURRANI		AUG 2024	
			APPROVED: AQEEL YOUNIS					





Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C41	2+243.27	3143948.5693	1256456.2346	2+227.35	3143947.7448	1256472.1281	2+259.07	3143952.6752	1256440.8584	151.66	31.71	15.915	11.9810	S8' 57' 37.17"E
C42	2+283.62	3143959.0085	1256417.1408	2+268.91	3143955.2148	1256431.3478	2+298.27	3143960.6835	1256402.5317	200.00	29.36	14.705	8.4101	S10' 44' 44.74"E
C43	2+381.06	3143970.1142	1256320.2790	2+374.05	3143969.3161	1256327.2403	2+388.04	3143969.9338	1256313.2744	100.00	13.99	7.007	8.0162	S2' 31' 57.39"E
C44	2+432.60	3143968.7866	1256268.7375	2+413.82	3143969.2702	1256287.5111	2+451.14	3143973.3525	1256250.5211	137.57	37.33	18.780	15.5465	S6' 17' 51.85"E
C45	2+512.65	3143988.3069	1256190.8569	2+505.64	3143986.6004	1256197.6657	2+519.58	3143991.8223	1256184.7812	50.00	13.95	7.019	15.9828	S22' 03' 44.53"E
C46	2+543.96	3144004.0285	1256163.6852	2+538.71	3144001.4030	1256168.2229	2+549.14	3144005.4513	1256158.6395	41.77	10.43	5.242	14.3066	S22' 54' 01.68"E
C47	2+589.63	3144016.4400	1256119.6690	2+560.42	3144008.5121	1256147.7847	2+586.10	3143992.4828	1256136.3555	10.46	25.68	29.212	140.5825	S54' 32' 38.68"W
C48	2+631.26	3143955.3943	1256182.1527	2+615.79	3143968.0886	1256153.3183	2+645.79	3143949.9050	1256176.6115	50.00	30.00	15.466	34.3753	N37' 58' 37.23"W
C49	2+672.77	3143940.3282	1256201.8368	2+658.88	3143945.2611	1256186.8436	2+686.52	3143932.2449	1256213.1424	107.19	27.64	13.898	14.7749	N28' 10' 36.43"W
C50	2+734.81	3143904.1562	1256252.4280	2+723.88	3143910.5169	1256243.5318	2+745.73	3143898.6518	1256261.8779	234.32	21.86	10.936	5.3444	N32' 53' 31.30"W
C51	2+779.32	3143881.7443	1256290.9049	2+770.16	3143886.3578	1256282.9843	2+786.42	3143878.9321	1256299.6292	84.70	18.26	9.166	12.3537	N24' 02' 34.70"W
C52	2+846.89	3143860.9921	1256355.2848	2+821.59	3143868.7564	1256331.1975	2+835.71	3143858.7137	1256330.0798	5.16	14.13	25.308	156.9687	S83' 36' 58.36"W
C53	2+956.69	3143847.8223	1256209.5933	2+941.20	3143849.2172	1256225.0240	2+955.26	3143838.7469	1256222.1507	5.80	14.06	15.494	138.9787	S74' 39' 16.41"W
C54	3+001.63	3143811.5860	1256259.7327	2+993.69	3143816.2321	1256253.3040	3+009.35	3143809.7446	1256267.4477	40.00	15.66	7.932	22.4319	N24' 38' 24.54"W
C55	3+085.11	3143792.1583	1256341.1291	3+076.12	3143794.2441	1256332.3903	3+094.05	3143788.7140	1256349.4269	112.66	17.93	8.984	9.1187	N17' 59' 00.73"W
C56	3+164.31	3143761.7786	1256414.3173	3+152.47	3143766.3179	1256403.3816	3+175.88	3143761.4926	1256426.1542	63.39	23.41	11.840	21.1589	N11' 57' 48.27"W
C57	3+192.13	3143761.1001	1256442.4007	3+186.37	3143761.2393	1256436.6411	3+197.74	3143758.7428	1256447.6577	28.61	11.37	5.761	22.7683	N12' 46' 05.07"W
C58	3+210.16	3143753.6629	1256458.9882	3+201.09	3143757.3710	1256450.7169	3+218.63	3143755.4681	1256467.8672	28.19	17.54	9.063	35.6414	N6' 19' 53.48"W
C59	3+260.31	3143763.7701	1256508.7126	3+240.37	3143759.7989	1256489.1745	3+265.07	3143744.6462	1256503.0750	12.00	24.70	19.938	117.9144	N47' 28' 04.98"W
C60	3+283.54	3143726.9255	1256497.8510	3+271.87	3143738.1250	1256501.1525	3+294.25	3143720.5013	1256488.1013	31.91	22.39	11.676	40.1932	S53' 28' 41.31"W
C61	3+384.76	3143670.7019	1256412.5237	3+371.59	3143677.9490	1256423.5222	3+397.79	3143666.5266	1256400.0316	100.73	26.19	13.171	14.8998	S25' 55' 53.91"W
C62	3+449.27	3143650.2051	1256351.2001	3+433.84	3143655.0984	1256385.8401	3+464.85	3143647.6162	1256335.9827	200.00	30.81	15.436	8.8267	S14' 04' 06.10"W
C63	3+499.50	3143641.7713	1256301.6257	3+484.01	3143644.3693	1256316.8970	3+513.57	3143629.5652	1256292.0875	40.00	29.56	15.491	42.3398	S30' 49' 29.61"W
C64	3+554.24	3143597.5143	1256267.0419	3+542.89	3143606.4579	1256274.0307	3+565.37	3143591.4697	1256257.4349	64.98	22.47	11.350	19.8172	S42' 05' 10.26"W
C65	3+586.37	3143580.2858	1256239.6596	3+578.50	3143584.4759	1256246.3193	3+593.93	3143579.6806	1256231.8148	31.83	15.43	7.868	27.7668	S18' 17' 39.04"W
C66	3+649.11	3143575.4370	1256176.7989	3+602.17	3143579.0468	1256223.5976	3+616.51	3143567.8812	1256223.1245	5.63	16.34	46.938	166.3257	S87' 34' 25.04"W
C67	3+650.68	3143562.7018	1256254.8799	3+639.25	3143564.5427	1256243.5930	3+662.02	3143563.4495	1256266.2914	100.27	22.77	11.436	13.0127	N2' 45' 25.89"W
C68	3+684.43	3143564.9152	1256288.6579	3+679.17	3143564.5712	1256283.4088	3+689.67	3143566.0319	1256293.7984	70.72	10.50	5.260	8.5077	N8' 00' 10.86"E
C69	3+728.25	3143574.2203	1256331.4900	3+722.65	3143573.0334	1256326.0264	3+733.76	3143573.8637	1256337.0697	40.00	11.11	5.591	15.9142	N4' 17' 59.16"E
C70	3+759.14	3143572.2451	1256362.3923	3+747.37	3143572.9955	1256350.6517	3+770.86	3143573.2155	1256374.1167	160.42	23.49	11.765	8.3887	N0' 32' 13.31"E
C71	3+936.55	3143586.8826	1256539.2452	3+776.44	3143573.6753	1256379.6727	3+799.18	3143558.8910	1256381.5928	7.46	22.75	160.118	174.6633	N82' 36' 00.89"W
C72	3+837.47	3143552.1971	1256343.8919	3+830.99	3143553.3300	1256350.2725	3+843.59	3143547.7631	1256339.1658	21.80	12.60	6.480	33.1051	S26' 37' 14.36"W
C73	3+875.61	3143525.8572	1256315.8165	3+856.98	3143538.6009	1256329.3999	3+893.89	3143518.2167	1256298.8303	111.57	36.91	18.626	18.9548	S33' 41' 44.94"W
C74	3+915.07	3143509.5284	1256279.5144	3+901.15	3143515.2411	1256292.2148	3+928.90	3143501.3215	1256268.2636	133.73	27.75	13.926	11.8904	S30' 09' 49.04"W
C75	3+957.90	3143484.2296	1256244.8323	3+946.77	3143490.7896	1256253.8254	3+968.81	3143482.5075	1256233.8347	46.00	21.84	11.132	27.2092	S22' 30' 15.10"W
C76	4+013.77	3143475.5211	1256189.2187	4+004.75	3143476.9173	1256198.1352	4+022.70	3143471.8632	1256180.9681	68.50	17.95	9.025	15.0109	S16' 24' 18.05"W
C77	4+076.49	3143449.2484	1256129.9601	4+063.34	3143455.3898	1256143.8121	4+093.53	3143440.3147	1256117.7216	141.58	30.19	15.152	12.2175	S30' 01' 09.09"W
C78	4+186.09	3143385.7430	1256042.9616	4+175.72	3143391.8560	1256051.3360	4+196.45	3143380.3134	1256034.1288	261.08	20.73	10.368	4.5483	S33' 51' 13.57"W
C79	4+222.28	3143366.7856	1256012.1222	4+214.27	3143370.9805	1256018.9463	4+230.25	3143363.7305	1256004.7173	100.00	15.99	8.010	9.1596	S26' 59' 59.32"W
C80	4+262.06	3143351.5982	1255975.3112	4+256.56	3143353.6981	1255980.4010	4+267.55	3143348.8438	1255970.5437	82.93	11.00	5.506	7.5965	S26' 13' 05.71"W

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.






CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA
		0	AUG. 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		a			DRAWN	INAM ULLAH			
		b			CHECKED	S-DURRANI			
			c		APPROVED	AQEEL YOUNIS			



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C81	4+334.81	3143315.1970	1255912.3044	4+284.52	3143340.3575	1255955.8548	4+300.43	3143330.4684	1255960.2259	5.44	15.91	50.296	167.6593	N66° 09' 13.94"W
C82	4+316.26	3143335.2747	1255975.3081	4+308.15	3143332.8108	1255967.5766	4+324.21	3143334.8793	1255983.4173	46.59	16.07	8.115	19.7617	N7° 47' 41.63"E
C83	4+354.65	3143333.8714	1256013.8336	4+350.55	3143334.0206	1256009.7392	4+358.72	3143334.4766	1256017.8859	44.25	8.17	4.097	10.5796	N3° 12' 13.89"E
C84	4+397.35	3143340.1821	1256056.0910	4+389.04	3143335.9996	1256028.0844	4+384.27	3143325.7721	1256031.7144	5.53	15.24	28.317	157.9047	N70° 27' 31.21"W
C85	4+413.90	3143310.6945	1256006.2084	4+405.46	3143314.9924	1256013.4790	4+422.20	3143304.3129	1256000.6759	51.89	16.75	8.446	18.4880	S39° 49' 58.69"W
C86	4+447.14	3143285.4719	1255984.3421	4+437.18	3143292.9918	1255990.8613	4+456.07	3143284.7081	1255974.4192	24.22	18.89	9.952	44.6754	S26° 44' 21.33"W
C87	4+508.20	3143280.7076	1255922.4458	4+499.01	3143281.4128	1255931.6076	4+517.38	3143280.5954	1255913.2577	284.32	18.37	9.189	3.7021	S2° 33' 01.81"W
C88	4+565.33	3143280.0100	1255865.3066	4+547.92	3143280.2225	1255882.7141	4+575.03	3143262.6128	1255865.9413	16.99	27.10	17.409	91.3900	S46° 23' 39.97"W
C89	4+601.32	3143236.3396	1255866.8999	4+591.02	3143246.6341	1255866.5243	4+611.60	3143226.1382	1255868.3311	200.00	20.58	10.301	5.8970	N84° 57' 43.40"W
C90	4+638.37	3143199.6267	1255872.0507	4+628.71	3143209.1902	1255870.7089	4+647.89	3143190.0823	1255870.5792	65.59	19.18	9.657	16.7507	S89° 36' 39.99"W
C91	4+676.02	3143162.2784	1255866.2927	4+663.10	3143175.0528	1255868.2622	4+688.91	3143149.3568	1255865.9640	200.00	25.81	12.925	7.3954	S84° 56' 00.39"W
C92	4+727.51	3143110.7685	1255865.0619	4+711.17	3143127.1110	1255865.4524	4+742.76	3143097.8130	1255855.0925	50.00	31.60	16.347	36.2097	S70° 31' 34.57"W
C93	4+777.32	3143070.4271	1255834.0188	4+771.41	3143075.1101	1255837.8224	4+783.19	3143066.5169	1255829.5886	61.43	11.78	5.909	10.9893	S46° 55' 36.29"W
C94	4+868.62	3143009.9851	1255765.5382	4+851.06	3143021.6078	1255778.7066	4+868.37	3143008.7197	1255783.0565	7.38	17.31	17.564	134.4364	N71° 20' 58.98"W
C95	4+890.89	3143007.0973	1255805.5176	4+877.42	3143008.0674	1255792.0874	4+904.27	3143003.5582	1255818.5095	138.49	26.85	13.465	11.1066	N9° 41' 05.30"W
C96	4+940.22	3142994.1078	1255853.2017	4+919.99	3142999.4266	1255833.6766	4+955.25	3143010.6960	1255864.7926	28.74	35.26	20.237	70.2943	N19° 54' 32.66"E
C97	4+973.36	3143025.5420	1255875.1662	4+965.90	3143019.4253	1255870.8922	4+980.66	3143029.7173	1255881.3507	40.20	14.76	7.462	21.0317	N44° 32' 25.33"E
C98	4+999.18	3143040.0821	1255896.7030	4+988.14	3143033.9070	1255887.5564	5+009.68	3143050.0738	1255901.3892	40.00	21.54	11.036	30.8483	N49° 26' 55.24"E
C99	5+055.97	3143091.9800	1255921.0437	5+043.87	3143081.0318	1255915.9089	5+068.05	3143103.2749	1255925.3629	329.77	24.17	12.093	4.2001	N66° 58' 22.52"E
C100	5+169.69	3143198.2155	1255961.6685	5+105.37	3143138.1339	1255938.6931	5+122.38	3143135.0152	1255949.6939	5.74	17.01	64.325	169.8017	N15° 49' 40.25"W
C101	5+148.19	3143111.8223	1255945.2616	5+140.68	3143117.0307	1255946.2864	5+151.67	3143106.1221	1255945.0425	74.54	10.99	5.505	8.4471	S83° 29' 41.55"W
C102	5+226.11	3143031.7446	1255942.0792	5+213.32	3143044.5206	1255942.5882	5+238.81	3143019.1164	1255944.0826	129.28	25.49	12.786	11.2964	N86° 36' 00.07"W
C103	5+260.19	3142998.0081	1255947.4315	5+249.50	3143008.5585	1255945.7576	5+270.24	3142988.3212	1255942.9287	35.00	20.74	10.682	33.9453	S82° 02' 31.99"W
C104	5+317.04	3142945.8631	1255923.2022	5+304.28	3142957.4483	1255928.5780	5+329.10	3142933.2449	1255924.9142	43.55	24.81	12.754	32.6451	S81° 23' 31.61"W
C105	5+359.30	3142903.3204	1255928.9680	5+348.64	3142913.8825	1255927.5371	5+369.64	3142893.0915	1255925.9719	50.06	21.00	10.659	24.0401	S85° 41' 40.58"W
C106	5+400.23	3142863.7316	1255917.3723	5+390.57	3142873.0025	1255920.0878	5+409.84	3142855.1520	1255912.9324	100.00	19.26	9.660	11.0357	S68° 09' 24.09"W
C107	5+461.65	3142809.1347	1255889.1189	5+449.05	3142820.3212	1255894.9078	5+472.76	3142805.9213	1255876.9401	28.38	23.71	12.596	47.8581	S38° 42' 35.22"W
C108	5+512.06	3142795.8949	1255838.9401	5+503.85	3142797.9896	1255846.8796	5+520.26	3142794.7292	1255830.8121	141.99	16.40	8.211	6.6192	S11° 28' 16.17"W
C109	5+570.80	3142787.5531	1255780.7752	5+540.22	3142791.8954	1255811.0530	5+555.87	3142780.8175	1255810.6120	5.64	15.65	30.588	159.1173	S67° 43' 12.85"W
C110	5+586.64	3142774.0411	1255840.6300	5+580.45	3142775.4044	1255834.5908	5+592.77	3142774.1919	1255846.8193	50.00	12.32	6.191	14.1172	N5° 39' 45.01"W
C111	5+653.93	3142775.6819	1255907.9578	5+614.40	3142774.7188	1255868.4390	5+631.33	3142763.1137	1255870.4784	5.96	16.94	39.531	162.8579	N80° 01' 58.34"W
C112	5+667.89	3142751.4918	1255835.8210	5+655.76	3142755.3481	1255847.3208	5+679.89	3142750.6071	1255823.7241	96.31	24.13	12.129	14.3554	S11° 21' 37.65"W
C113	5+731.49	3142746.8435	1255772.2614	5+690.83	3142749.8096	1255812.8182	5+703.36	3142741.3072	1255812.5479	4.28	12.54	40.665	167.9925	S88° 10' 44.40"W
C114	5+714.18	3142739.8348	1255823.2625	5+709.23	3142740.5089	1255818.3574	5+719.10	3142738.2185	1255827.9423	50.38	9.87	4.951	11.2292	N13° 26' 21.64"W
C115	5+746.24	3142729.3577	1255853.5973	5+737.69	3142732.1497	1255845.5137	5+754.59	3142729.7305	1255862.1415	44.93	16.90	8.552	21.5520	N8° 16' 40.64"W
C116	5+836.04	3142733.2803	1255943.5102	5+762.29	3142730.0662	1255869.8362	5+784.71	3142715.0340	1255672.0591	7.64	22.42	73.744	168.1727	N81° 35' 17.94"W
C117	5+815.08	3142707.5203	1255842.6363	5+806.92	3142709.5391	1255850.5417	5+823.08	3142702.9670	1255835.8660	47.24	16.16	8.159	19.5970	S24° 07' 25.93"W
C118	5+857.09	3142683.9875	1255807.6454	5+842.28	3142682.2529	1255819.9352	5+868.56	3142691.8340	1255795.0840	22.84	26.28	14.811	65.9134	S0° 57' 56.44"W
C119	5+889.68	3142703.0255	1255777.1677	5+882.30	3142699.1114	1255783.4338	5+896.50	3142710.0037	1255774.7408	20.96	14.21	7.388	38.8321	S51° 24' 25.59"E
C120	5+923.61	3142735.6044	1255765.8373	5+907.49	3142720.3823	1255771.1313	5+934.65	3142733.7236	1255749.8310	20.07	27.16	16.116	77.5250	S32° 03' 38.50"E

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.





 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINS CONSULTANT  J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS.  DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA
		a			DESIGNED	REHMAT			
		b			DRAWN	INAM ULLAH			
		c			CHECKED	S-DURRANI			
					APPROVED	AQEEL YOUNIS			



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C121	5+948.99	3142732.0498	1255735.5868	5+943.45	3142732.6961	1255741.0866	5+954.46	3142732.8547	1255730.1080	41.90	11.01	5.538	15.0587	S0° 49' 39.18"E
C122	6+053.12	3142747.1827	1255632.5032	5+967.27	3142734.7156	1255717.4397	5+986.11	3142722.4692	1255714.7141	6.29	18.84	85.848	171.6182	S77° 27' 08.70"W
C123	6+020.05	3142712.6931	1255747.2216	6+013.91	3142714.4640	1255741.3331	6+025.14	3142706.7629	1255748.8471	11.11	11.23	6.149	57.9337	N45° 42' 16.44"W
C124	6+048.11	3142684.8105	1255754.9192	6+038.35	3142694.0204	1255752.3399	6+056.95	3142679.4355	1255763.1907	25.00	18.60	9.757	42.6393	N53° 21' 06.27"W
C125	6+080.46	3142666.9707	1255783.1137	6+070.70	3142672.1453	1255774.8430	6+088.85	3142657.2675	1255784.1270	20.00	18.15	9.756	52.0062	N58° 02' 06.60"W
C126	6+118.00	3142628.2823	1255787.1539	6+105.44	3142640.7662	1255785.8502	6+127.86	3142624.0276	1255796.9625	20.00	22.42	12.552	64.2239	N51° 55' 34.75"W
C127	6+192.32	3142602.1769	1255859.6074	6+146.89	3142617.5771	1255816.8654	6+165.70	3142604.7990	1255814.2513	6.59	18.80	45.432	163.4943	S78° 26' 18.55"W
C128	6+192.39	3142606.3396	1255787.6020	6+182.35	3142605.7603	1255797.6224	6+201.46	3142613.6293	1255780.7024	25.31	19.11	10.037	43.2665	S24° 56' 30.81"E
C129	6+248.15	3142647.5377	1255748.6090	6+238.43	3142640.4791	1255755.2898	6+257.50	3142650.7438	1255739.4343	40.00	19.07	9.719	27.3131	S32° 55' 06.97"E
C130	6+306.51	3142666.9115	1255693.1686	6+297.49	3142663.9353	1255701.6863	6+315.28	3142666.2464	1255684.1714	43.39	17.79	9.022	23.4897	S7° 31' 02.07"E
C131	6+341.80	3142664.2916	1255657.7267	6+326.98	3142665.3838	1255672.5027	6+355.61	3142672.1685	1255645.1776	45.14	28.63	14.816	36.3438	S13° 56' 39.58"E
C132	6+413.04	3142702.6980	1255596.5402	6+398.96	3142695.2123	1255608.4659	6+426.03	3142716.0034	1255591.9332	40.00	27.08	14.080	38.7853	S51° 30' 31.94"E
C133	6+469.24	3142756.8301	1255577.7969	6+461.32	3142749.3501	1255580.3868	6+476.63	3142762.1714	1255571.9549	31.21	15.50	7.916	28.4647	S56° 40' 08.90"E
C134	6+518.81	3142790.5041	1255540.9666	6+500.86	3142778.3905	1255554.2157	6+520.04	3142772.5777	1255540.0069	8.49	19.17	17.952	129.3724	S22° 14' 57.87"W
C135	6+579.09	3142713.6093	1255536.8501	6+557.16	3142735.5111	1255538.0226	6+600.02	3142695.2047	1255524.9198	82.18	42.87	21.933	29.8877	S71° 59' 30.28"W
C136	6+635.73	3142665.2384	1255505.4950	6+618.13	3142680.0068	1255515.0582	6+648.72	3142667.0477	1255487.9885	28.75	31.59	17.600	62.9485	S25° 34' 25.14"W
C137	6+684.15	3142670.5876	1255453.7368	6+665.61	3142666.6813	1255472.1822	6+701.30	3142660.6139	1255438.1037	53.19	35.69	18.544	38.4379	S13° 19' 06.07"W
C138	6+731.72	3142644.2524	1255412.4581	6+710.57	3142655.6277	1255430.2882	6+750.63	3142648.9449	1255391.8355	50.61	40.07	21.150	45.3562	S9° 51' 33.18"W
C139	6+822.10	3142664.8010	1255322.1507	6+791.27	3142657.9616	1255352.2088	6+819.69	3142639.6529	1255339.9788	11.79	28.42	30.826	136.1526	S56° 15' 26.77"W
C140	6+840.60	3142622.5984	1255352.0691	6+824.73	3142635.5400	1255342.8945	6+851.15	3142611.2911	1255340.9424	18.95	26.41	15.864	79.8725	S85° 23' 51.04"W
C141	6+882.78	3142588.7420	1255318.7535	6+863.28	3142602.6470	1255332.4364	6+899.22	3142569.5726	1255322.3738	37.29	35.95	19.508	55.2335	S73° 04' 40.94"W
C142	6+953.29	3142516.4468	1255332.4070	6+932.95	3142536.4268	1255328.6337	6+966.84	3142509.1683	1255313.4212	24.35	33.88	20.333	79.7198	S60° 50' 05.66"W
C143	7+009.16	3142494.0193	1255273.9053	7+004.60	3142495.6528	1255278.1663	7+013.69	3142493.2181	1255269.4128	47.99	9.10	4.563	10.8631	S15° 32' 36.46"W
C144	7+027.73	3142490.7531	1255255.5911	7+019.86	3142492.1351	1255263.3400	7+034.72	3142484.1640	1255251.2854	18.22	14.86	7.871	46.7250	S33° 28' 27.84"W
C145	7+057.48	3142465.1120	1255238.8356	7+045.42	3142475.2077	1255245.4327	7+068.54	3142453.1431	1255240.3157	32.94	23.12	12.060	40.2129	S76° 56' 35.97"W
C146	7+102.05	3142419.8886	1255244.4282	7+084.95	3142436.8661	1255242.3287	7+110.07	3142420.6603	1255227.3388	14.45	25.12	17.107	99.6354	S47° 13' 55.34"W
C147	7+118.18	3142421.0264	1255219.2331	7+111.60	3142420.7295	1255225.8063	7+124.08	3142416.5845	1255214.3787	15.87	12.47	6.580	45.0452	S19° 56' 12.86"W
C148	7+140.53	3142405.4804	1255202.2436	7+131.93	3142411.2830	1255208.5650	7+148.92	3142402.4403	1255194.2036	44.75	16.98	8.596	21.7465	S31° 35' 10.55"W
C149	7+161.35	3142398.0415	1255182.5704	7+153.86	3142400.6903	1255189.5756	7+168.82	3142394.5307	1255175.9550	118.36	14.96	7.489	7.2413	S24° 20' 01.25"W
C150	7+208.53	3142375.9152	1255140.8769	7+190.02	3142384.5935	1255157.2298	7+224.62	3142382.9951	1255123.7711	39.31	34.60	18.513	50.4386	S2° 44' 06.14"W
C151	7+242.67	3142389.8974	1255107.0946	7+231.35	3142385.5677	1255117.5556	7+246.28	3142378.5763	1255106.9943	7.64	14.93	11.322	111.9767	S33° 30' 14.86"W
C152	7+318.49	3142306.3745	1255106.3548	7+311.18	3142313.6834	1255106.4195	7+325.78	3142299.0974	1255107.0378	142.58	14.61	7.309	5.8691	N87° 34' 22.58"W
C153	7+385.90	3142239.2478	1255112.6548	7+360.82	3142264.2144	1255110.3116	7+395.75	3142243.9203	1255088.0176	18.86	34.93	25.076	106.1004	S42° 18' 41.10"W
C154	7+422.21	3142248.8513	1255062.0176	7+411.18	3142246.7950	1255072.8601	7+429.26	3142238.3511	1255058.6215	12.51	18.09	11.036	82.8158	S30° 40' 08.83"W
C155	7+487.13	3142183.2897	1255040.8128	7+469.57	3142199.9994	1255046.2172	7+504.38	3142169.2212	1255030.3009	105.83	34.81	17.582	18.8438	S62° 39' 18.46"W
C156	7+538.45	3142141.9285	1255009.9080	7+528.06	3142150.2464	1255016.1231	7+548.38	3142131.6379	1255008.5235	40.00	20.32	10.383	29.1037	S67° 47' 06.31"W
C157	7+568.72	3142111.4807	1255005.8113	7+557.19	3142122.9060	1255007.3486	7+579.64	3142102.6261	1254998.4293	40.00	22.45	11.528	32.1545	S66° 15' 34.87"W
C158	7+612.62	3142077.2921	1254977.3087	7+606.01	3142082.3710	1254981.5429	7+619.12	3142071.1207	1254974.9342	40.00	13.11	6.612	18.7734	S59° 34' 08.88"W
C159	7+644.73	3142047.2157	1254965.7368	7+632.48	3142058.6515	1254970.1367	7+656.48	3142039.2422	1254956.4331	48.50	24.00	12.253	28.3586	S54° 46' 35.56"W
C160	7+671.61	3142029.3989	1254944.9476	7+660.00	3142036.9533	1254953.7622	7+682.60	3142018.2994	1254941.5467	40.00	22.60	11.609	32.3677	S56° 46' 51.93"W

*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA</p> <p>COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINS CONSULTANT</p> <p>J.V.</p> <p>CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-74 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA DWGNO. CEC/KP-RRDP/RWN-SWT-74/HCD-04
		0	AUG, 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		a			DRAWN	INAM ULLAH			
		b			CHECKED	S-DURRANI			
		c			APPROVED	AQEEL YOUNIS			



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C161	7+698.37	3142003.2137	1254936.9244	7+690.94	3142010.3228	1254939.1027	7+705.39	3141998.4504	1254931.2152	25.00	14.45	7.435	33.1264	S56° 24' 06.31"W
C162	7+722.32	3141987.6091	1254918.2209	7+713.75	3141993.0945	1254924.7957	7+730.54	3141979.6782	1254914.9934	34.32	16.78	8.563	28.0177	S53° 50' 50.78"W
C163	7+757.91	3141954.3213	1254904.6745	7+751.89	3141960.0861	1254907.0205	7+763.89	3141948.1294	1254905.3052	25.00	12.20	6.224	27.9599	S81° 50' 10.55"W
C164	7+778.74	3141933.3518	1254906.8105	7+770.65	3141941.3991	1254905.9908	7+786.42	3141926.0679	1254903.2926	28.59	15.77	8.089	31.5953	S80° 01' 06.88"W
C165	7+841.80	3141876.2004	1254879.2082	7+833.94	3141883.2757	1254882.6253	7+849.64	3141869.5956	1254874.9524	128.16	15.69	7.857	7.0168	S60° 42' 45.11"W
C166	7+940.27	3141793.4107	1254825.8623	7+859.01	3141861.7189	1254869.8770	7+869.78	3141857.6502	1254875.6276	3.53	10.77	81.261	175.0315	N35° 16' 48.42"W
C167	7+899.71	3141881.3135	1254893.9592	7+891.93	3141875.1621	1254889.1938	7+907.47	3141886.8785	1254899.3981	135.38	15.55	7.781	6.5791	N48° 56' 45.92"E
C168	7+940.89	3141910.7781	1254922.7562	7+933.74	3141905.6633	1254917.7573	7+947.97	3141914.5350	1254928.8420	58.38	14.23	7.152	13.9689	N38° 40' 19.52"E
C169	7+963.17	3141922.5194	1254941.7761	7+954.86	3141918.1622	1254934.7178	7+971.30	3141929.0447	1254946.8972	46.60	16.42	8.295	20.1873	N41° 46' 52.71"E
C170	8+603.95	3142426.7285	1255337.4822	7+985.00	3141939.8233	1254955.3563	8+006.40	3141931.4730	1254966.2426	6.86	21.40	618.948	178.7299	N37° 29' 23.91"W
C171	8+042.46	3141902.6170	1254944.6124	8+032.06	3141910.9405	1254950.8517	8+052.85	3141893.7923	1254939.1048	243.81	20.79	10.402	4.8862	S55° 35' 17.33"W
C172	8+086.33	3141865.3901	1254921.3787	8+078.30	3141872.1995	1254925.6285	8+094.34	3141858.1650	1254917.8822	149.54	16.04	8.027	6.1448	S61° 06' 13.00"W
C173	8+178.50	3141782.4137	1254881.2235	8+147.71	3141810.1240	1254894.6334	8+208.62	3141751.7626	1254878.3608	170.34	60.91	30.785	20.4884	S74° 25' 12.73"W
C174	8+266.08	3141694.5528	1254873.0178	8+253.95	3141706.6370	1254874.1464	8+277.63	3141684.7554	1254865.8545	44.01	23.68	12.137	30.8364	S69° 14' 46.43"W
C175	8+298.66	3141667.7838	1254853.4460	8+287.58	3141676.7205	1254859.9799	8+305.68	3141660.2509	1254861.5584	12.45	18.10	11.071	83.2933	N84° 31' 31.10"W
C176	8+343.43	3141634.5671	1254889.2182	8+333.54	3141641.2949	1254881.9727	8+353.06	3141631.1033	1254898.4790	50.00	19.52	9.887	22.3716	N31° 41' 34.30"W
C177	8+391.01	3141617.8094	1254934.0218	8+373.91	3141623.8001	1254918.0049	8+402.13	3141601.0883	1254930.4393	19.82	28.22	17.101	81.5859	N61° 17' 59.95"W
C178	8+436.76	3141567.2220	1254923.1833	8+424.90	3141578.8248	1254925.6692	8+442.41	3141566.5724	1254935.0317	10.14	17.52	11.866	98.9549	N52° 36' 55.65"W
C179	8+483.48	3141564.3244	1254976.0364	8+461.45	3141565.5304	1254954.0380	8+498.15	3141542.4606	1254978.7498	26.36	36.70	22.031	79.7674	N43° 01' 54.16"W
C180	8+546.00	3141494.9760	1254984.6430	8+527.87	3141512.9631	1254982.4107	8+561.66	3141482.0052	1254971.9831	37.68	33.79	18.125	51.3795	S71° 23' 05.35"W
C181	8+583.40	3141466.4463	1254956.7972	8+572.12	3141474.5174	1254964.6748	8+593.31	3141455.1992	1254957.6346	25.00	21.19	11.278	48.5632	S69° 58' 35.90"W
C182	8+624.04	3141424.5618	1254959.9158	8+614.34	3141434.2262	1254959.1962	8+633.54	3141415.6898	1254963.8152	56.49	19.20	9.691	19.4681	N76° 00' 27.84"W
C183	8+651.12	3141399.5953	1254970.8890	8+642.44	3141407.5378	1254957.3982	8+658.64	3141391.8789	1254966.9232	18.22	16.19	8.676	50.9272	S88° 15' 45.75"W
C184	8+670.70	3141381.1498	1254961.4090	8+663.46	3141387.5878	1254964.7178	8+677.40	3141374.0430	1254962.7836	20.93	13.94	7.239	38.1479	S81° 52' 22.93"W
C185	8+718.93	3141333.2649	1254970.6709	8+709.89	3141342.1453	1254968.9532	8+726.35	3141330.1686	1254979.1694	15.98	16.46	9.045	59.0347	N49° 32' 06.46"W
C186	8+792.64	3141307.4772	1255041.4516	8+781.19	3141311.3960	1255030.6954	8+801.81	3141296.1409	1255043.0459	19.06	20.62	11.448	61.9764	N51° 00' 23.59"W
C187	8+845.45	3141252.9204	1255049.1241	8+836.05	3141262.2346	1255047.8142	8+853.16	3141247.0166	1255041.8018	16.58	17.11	9.406	59.1269	S68° 26' 30.43"W
C188	8+868.12	3141237.6258	1255030.1547	8+859.22	3141243.2134	1255037.0849	8+876.32	3141228.9156	1255028.3158	25.00	17.10	8.902	39.2005	S58° 28' 42.91"W
C189	8+943.18	3141163.4982	1255014.5050	8+936.26	3141170.2698	1255015.9346	8+949.95	3141157.6973	1255010.7303	37.10	13.68	6.921	21.1313	S67° 30' 47.54"W
C190	8+964.79	3141145.2540	1255002.6333	8+959.44	3141149.7381	1255005.5512	8+969.45	3141140.1417	1255004.2100	11.42	10.01	5.350	50.1929	S82° 02' 38.41"W
C191	9+009.26	3141102.1018	1255015.9420	8+989.38	3141121.0921	1255010.0851	9+028.22	3141082.7297	1255011.5085	74.09	38.83	19.873	30.0311	N87° 52' 30.33"W
C192	9+052.60	3141058.9618	1255006.0690	9+040.63	3141070.6329	1255008.7400	9+064.41	3141048.5099	1255000.2291	83.59	23.78	11.973	16.3033	S68° 57' 27.81"W
C193	9+081.44	3141033.6462	1254991.9241	9+071.80	3141042.0591	1254996.6248	9+090.74	3141028.1577	1254984.0027	41.59	18.94	9.637	26.0893	S47° 45' 41.04"W
C194	9+100.39	3141022.6601	1254976.0681	9+093.26	3141026.7208	1254981.9289	9+105.41	3141015.9609	1254978.5090	9.24	12.15	7.130	75.3030	S72° 22' 05.59"W
C195	9+137.26	3140986.0307	1254989.4144	9+117.75	3141004.3682	1254982.7329	9+155.46	3140967.2984	1254983.9364	59.50	37.72	19.517	36.3204	N88° 06' 25.72"W
C196	9+183.94	3140939.9711	1254975.9450	9+172.26	3140951.1749	1254979.2214	9+195.22	3140928.4451	1254977.7919	51.79	22.96	11.673	25.4039	S86° 24' 04.55"W
C197	9+217.16	3140906.7875	1254981.2621	9+210.89	3140912.9805	1254980.2698	9+223.39	3140900.5195	1254981.0382	64.26	12.50	6.272	11.1487	N86° 28' 16.11"W
C198	9+242.16	3140881.7630	1254980.3683	9+233.65	3140890.2630	1254980.6719	9+250.57	3140873.4661	1254982.2406	85.66	16.92	8.505	14.7616	N84° 39' 52.85"W
C199	9+293.52	3140831.5716	1254991.6943	9+284.59	3140840.2827	1254989.7286	9+301.39	3140827.2201	1254999.4925	20.00	16.80	8.930	48.1220	N53° 13' 22.36"W
C200	9+325.84	3140815.3030	1255020.8491	9+312.22	3140821.9414	1255008.9525	9+337.26	3140801.7271	1255021.9872	25.60	25.04	13.623	56.0461	N57° 11' 05.76"W

Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)  UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA DWGNO. CEC/KP-RRDP/MIN-SWT-TANCO-05
		0	AUG. 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		a			DRAWN	INAM ULLAH			
		b			CHECKED	S-DURRANI			
			c		APPROVED	AOEEL YOUNIS			



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C201	9+375.69	3140763.4259	1255025.1981	9+356.12	3140782.9337	1255023.5627	9+393.83	3140749.0293	1255038.4633	57.07	37.72	19.576	37.8659	N66° 16' 30.15"W
C202	9+449.46	3140708.1185	1255076.1591	9+423.51	3140727.2061	1255058.5715	9+473.03	3140682.1639	1255076.2931	66.98	49.52	25.955	42.3620	N68° 31' 23.07"W
C203	9+509.53	3140645.6683	1255076.4817	9+494.97	3140660.2222	1255076.4065	9+522.52	3140635.5703	1255086.9628	34.48	27.54	14.554	45.7706	N66° 49' 07.43"W
C204	9+560.29	3140609.3600	1255114.1675	9+550.68	3140616.0338	1255107.2405	9+569.42	3140600.0474	1255116.5754	34.03	18.75	9.619	31.5696	N59° 43' 05.60"W
C205	9+584.73	3140585.2318	1255120.4061	9+576.59	3140593.1137	1255118.3681	9+592.18	3140580.5752	1255127.0839	22.00	15.59	8.141	40.6141	N55° 11' 45.62"W
C206	9+606.45	3140572.4118	1255136.7907	9+595.69	3140578.5654	1255129.9661	9+611.77	3140564.4440	1255131.5621	9.46	16.08	10.758	97.3261	N83° 33' 07.25"W
C207	9+628.87	3140551.7778	1255120.0711	9+619.47	3140558.7435	1255126.3905	9+637.64	3140549.9400	1255110.8473	28.51	18.17	9.405	36.5166	S29° 31' 35.96"W
C208	9+671.14	3140543.3940	1255077.9932	9+653.60	3140546.8209	1255095.1927	9+688.65	3140541.6031	1255060.5473	371.38	35.05	17.538	5.4073	S8° 33' 53.00"W
C209	9+704.55	3140539.9788	1255044.7243	9+695.24	3140540.9304	1255053.9937	9+713.69	3140535.9681	1255036.3135	53.85	18.45	9.318	19.6337	S15° 40' 40.47"W
C210	9+781.94	3140506.5911	1254974.7088	9+775.28	3140509.4579	1254980.7208	9+788.30	3140501.1132	1254970.9201	25.00	13.02	6.660	29.8364	S40° 24' 46.48"W
C211	9+824.48	3140471.3515	1254950.3361	9+814.91	3140479.2221	1254955.7796	9+833.19	3140461.8578	1254951.5393	25.00	18.28	9.570	41.8924	S76° 16' 38.16"W
C212	9+852.59	3140442.6150	1254953.9783	9+842.11	3140453.0134	1254952.6603	9+859.72	3140439.1876	1254944.0729	12.91	17.61	10.482	76.1368	S58° 09' 18.10"W
C213	9+892.51	3140428.4652	1254913.0852	9+874.08	3140434.4894	1254930.4951	9+901.50	3140412.0480	1254921.4438	16.04	27.41	18.423	97.8954	S68° 02' 03.44"W
C214	9+961.43	3140358.6367	1254948.6370	9+952.06	3140366.9850	1254944.3866	9+969.99	3140349.5510	1254946.3544	25.00	17.93	9.368	41.0841	N83° 33' 36.27"W
C215	9+994.39	3140325.8851	1254940.4090	9+975.87	3140343.8449	1254944.9209	9+986.78	3140340.3577	1254951.9813	4.02	10.91	18.518	155.5048	N26° 20' 59.03"W
C216	9+991.66	3140344.1686	1254955.0032	9+987.56	3140340.9655	1254952.4464	9+995.56	3140348.2268	1254955.5759	15.00	8.00	4.098	30.5638	N66° 41' 04.33"E
C217	10+013.82	3140366.3080	1254958.1279	10+008.46	3140360.9987	1254957.3785	10+018.99	3140371.3769	1254956.3797	22.28	10.52	5.362	27.0620	S84° 30' 09.26"E
C218	10+086.45	3140435.1500	1254934.3855	10+051.18	3140401.8157	1254945.8819	10+063.14	3140405.3533	1254953.2402	4.11	11.96	35.261	166.7037	N25° 40' 35.73"E
C219	10+080.20	3140390.9423	1254962.3591	10+074.57	3140395.6950	1254959.3517	10+085.80	3140386.6989	1254966.0505	73.97	11.23	5.624	8.6958	N53° 19' 38.41"W
C220	10+107.48	3140370.3408	1254980.2808	10+091.47	3140382.4195	1254969.7732	10+121.83	3140354.3685	1254979.1879	38.71	30.36	16.010	44.9349	N71° 26' 48.83"W
C221	10+146.02	3140330.2398	1254977.5369	10+138.31	3140337.9287	1254978.0630	10+153.60	3140323.0649	1254974.7232	50.06	15.29	7.707	17.4984	S77° 20' 11.16"W
C222	10+191.08	3140288.1729	1254961.0402	10+178.41	3140299.9686	1254965.6659	10+197.88	3140293.4801	1254949.5350	11.95	19.47	12.670	93.3502	S21° 54' 43.70"W
C223	10+225.82	3140305.1825	1254924.1656	10+216.55	3140301.2993	1254932.5839	10+233.63	3140300.4802	1254916.1758	17.72	17.08	9.271	55.2412	S2° 51' 27.59"W
C224	10+250.70	3140291.8220	1254901.4642	10+242.57	3140295.9481	1254908.4750	10+258.77	3140289.3727	1254893.7069	71.65	16.20	8.135	12.9554	S24° 00' 02.16"W
C225	10+282.61	3140282.1949	1254870.9737	10+274.50	3140284.6361	1254876.7054	10+288.04	3140274.1450	1254871.9417	9.78	13.54	8.108	79.3338	S57° 11' 23.36"W
C226	10+318.56	3140243.8454	1254875.5851	10+310.88	3140251.4686	1254874.6685	10+326.17	3140236.2022	1254874.8545	71.16	15.30	7.678	12.3170	N89° 18' 06.31"W
C227	10+346.85	3140215.6226	1254872.8874	10+334.08	3140228.3331	1254874.1023	10+359.07	3140203.9249	1254878.0045	49.22	24.99	12.768	29.0865	N80° 55' 01.19"W
C228	10+367.64	3140177.7485	1254889.4549	10+381.71	3140183.1806	1254887.0787	10+393.51	3140171.9057	1254890.4633	48.87	11.80	5.929	13.8348	N73° 17' 28.11"W
C229	10+457.55	3140108.7950	1254901.3547	10+424.58	3140141.2860	1254895.7475	10+463.51	3140121.2447	1254870.8242	18.29	38.93	32.971	121.9762	S38° 48' 12.12"W
C230	10+484.28	3140129.0880	1254851.5903	10+475.65	3140125.8311	1254859.5770	10+491.99	3140125.6842	1254843.6652	20.61	16.34	8.625	45.4279	S0° 31' 45.15"W
C231	10+513.34	3140117.2585	1254824.0475	10+500.00	3140122.5252	1254836.3100	10+525.83	3140105.8642	1254817.0994	41.84	25.84	13.346	35.3828	S40° 56' 04.38"W
C232	10+563.85	3140073.4046	1254797.3082	10+556.39	3140079.7756	1254801.1911	10+571.25	3140066.3380	1254794.9096	67.38	14.86	7.462	12.6398	S64° 56' 44.97"W
C233	10+613.29	3140026.5283	1254781.4082	10+600.02	3140039.0925	1254785.6693	10+621.63	3140029.4458	1254768.4658	14.74	21.61	13.267	83.9690	S29° 16' 52.30"W
C234	10+688.12	3140044.0680	1254703.5996	10+669.13	3140039.8923	1254722.1238	10+702.99	3140029.1124	1254691.8988	30.00	33.86	18.989	64.6648	S19° 37' 44.61"W
C235	10+725.46	3140011.4134	1254678.0517	10+719.94	3140015.7619	1254681.4538	10+730.94	3140006.4274	1254675.6803	50.00	11.00	5.521	12.6026	S58° 15' 45.89"W
C236	10+759.98	3139980.2038	1254663.2083	10+739.10	3139999.0561	1254672.1745	10+780.26	3139959.3389	1254662.5334	100.00	41.16	20.876	23.5833	S76° 21' 20.51"W
C237	10+829.56	3139910.0667	1254660.9396	10+802.50	3139937.1165	1254661.8146	10+854.24	3139890.3731	1254642.3758	71.52	51.75	27.064	41.4557	S67° 25' 10.13"W
C238	10+902.55	3139855.2253	1254609.2445	10+886.78	3139866.7001	1254620.0610	10+916.82	3139839.4562	1254609.1684	40.00	30.04	15.769	43.0319	S68° 12' 27.19"W
C239	10+950.96	3139805.3117	1254609.0036	10+943.58	3139812.6917	1254609.0392	10+957.37	3139800.6454	1254603.2860	15.65	13.79	7.380	50.5045	S64° 28' 16.36"W
C240	11+001.81	3139772.5479	1254568.8582	10+988.70	3139780.8399	1254579.0184	11+014.35	3139760.3366	1254564.0758	50.00	25.65	13.114	29.3939	S53° 54' 57.16"W

*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  MINS CONSULTANT  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS:  DATE: AUG 2024	SHEET CONTENT:  HORIZONTAL CURVE DATA
		0	AUG, 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		a			DRAWN	INAM ULLAH			
		b			CHECKED	S-DURRANI			
				APPROVED	AOEEL YOUNIS				




Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C241	11+085.76	3139693.8479	1254538.0363	11+056.71	3139720.8918	1254548.6277	11+113.56	3139665.0556	1254541.8509	112.57	56.85	29.044	28.9340	S83° 04' 47.32"W
C242	11+164.84	3139614.2236	1254548.5853	11+147.91	3139631.0001	1254546.3626	11+171.60	3139616.5756	1254531.8264	12.86	23.69	16.923	105.5355	S44° 46' 44.54"W
C243	11+199.21	3139620.4132	1254504.4810	11+188.39	3139618.9092	1254515.1978	11+208.82	3139613.6267	1254496.0501	25.00	20.43	10.822	46.8127	S15° 25' 03.42"W
C244	11+261.99	3139580.2944	1254454.6260	11+256.79	3139583.5521	1254458.6742	11+267.16	3139577.8972	1254450.1255	67.26	10.37	5.196	8.8350	S34° 24' 23.25"W
C245	11+284.90	3139568.8299	1254434.7601	11+279.90	3139571.3306	1254439.0934	11+289.89	3139565.6549	1254430.8935	60.84	9.98	5.003	9.4020	S34° 41' 23.83"W
C246	11+323.07	3139544.5970	1254405.2489	11+305.01	3139556.0591	1254419.2076	11+331.34	3139532.9805	1254419.0795	15.00	26.33	18.062	100.5818	S89° 40' 54.63"W
C247	11+371.45	3139507.1817	1254449.7956	11+354.87	3139517.8450	1254437.0999	11+381.24	3139494.1241	1254439.5787	17.16	26.37	16.580	88.0140	N84° 02' 03.40"W
C248	11+405.02	3139475.3985	1254424.9270	11+393.81	3139484.2215	1254431.8304	11+413.06	3139466.2745	1254431.4272	15.00	19.24	11.203	73.5085	S88° 42' 46.65"W
C249	11+472.16	3139418.1349	1254465.7233	11+467.51	3139421.9239	1254463.0239	11+476.77	3139415.1454	1254469.2880	36.45	9.25	4.652	14.5480	N47° 15' 31.71"W
C250	11+508.50	3139394.7556	1254493.6006	11+498.62	3139401.1045	1254486.0302	11+517.81	3139385.2849	1254496.4158	32.87	19.20	9.880	33.4603	N56° 42' 53.87"W
C251	11+527.92	3139375.5980	1254499.2953	11+522.79	3139380.5140	1254497.8340	11+532.96	3139371.3728	1254502.2023	32.43	10.17	5.129	17.9730	N64° 27' 31.06"W
C252	11+551.95	3139355.7270	1254512.9665	11+540.89	3139364.8430	1254506.6947	11+555.64	3139353.1202	1254502.2128	7.62	14.75	11.065	110.9011	S69° 04' 38.19"W
C253	11+574.00	3139348.7934	1254484.3644	11+571.13	3139349.4701	1254487.1561	11+576.84	3139347.4225	1254481.8402	22.00	5.71	2.872	14.8777	S21° 03' 56.06"W
C254	11+592.82	3139339.7950	1254467.7946	11+589.10	3139341.5720	1254471.0667	11+596.54	3139338.3738	1254464.3531	70.27	7.44	3.723	6.0662	S25° 28' 16.83"W
C255	11+630.79	3139325.3024	1254432.6994	11+618.73	3139329.9048	1254443.8444	11+640.79	3139313.4316	1254430.5831	22.00	22.06	12.058	57.4534	S51° 09' 53.76"W
C256	11+667.21	3139287.4174	1254425.9453	11+647.10	3139307.2176	1254429.4753	11+681.14	3139279.4043	1254444.3925	25.45	34.04	20.112	76.6283	N61° 47' 37.36"W
C257	11+717.33	3139264.9890	1254477.5786	11+710.29	3139267.7907	1254471.1287	11+724.31	3139263.5540	1254484.4628	68.61	14.02	7.032	11.7037	N17° 37' 37.91"W
C258	11+748.61	3139258.5947	1254508.2527	11+738.24	3139260.7115	1254498.0982	11+756.70	3139248.4899	1254510.5952	16.23	18.46	10.373	65.1728	N44° 21' 42.35"W
C259	11+784.85	3139221.0588	1254516.9543	11+773.35	3139232.2688	1254514.3556	11+795.88	3139209.9839	1254513.8299	44.81	22.53	11.507	28.8066	S88° 38' 54.78"W
C260	11+820.58	3139186.2079	1254507.1222	11+810.82	3139195.5985	1254509.7715	11+830.27	3139176.4814	1254506.3511	99.32	19.45	9.757	11.2215	S79° 51' 21.67"W
C261	11+862.06	3139144.7925	1254503.8386	11+853.83	3139152.9953	1254504.4890	11+870.26	3139136.7747	1254501.9886	111.26	16.43	8.229	8.4592	S81° 14' 13.76"W
C262	11+920.28	3139088.0355	1254490.7431	11+905.65	3139102.2959	1254494.0334	11+934.12	3139074.2516	1254495.6614	50.00	28.47	14.635	32.6296	N86° 40' 39.61"W
C263	12+015.32	3138997.7777	1254522.9483	12+002.68	3139009.6808	1254518.7011	12+025.88	3138987.8501	1254515.3883	23.58	23.20	12.638	56.3777	S81° 26' 53.84"W
C264	12+040.87	3138975.6377	1254506.4213	12+034.73	3138980.5588	1254510.0948	12+046.89	3138969.7639	1254504.6298	35.22	12.16	6.141	19.7788	S63° 08' 55.98"W
C265	12+128.84	3138891.3838	1254480.7239	12+115.64	3138904.0093	1254484.5747	12+140.88	3138884.4536	1254469.4898	34.96	25.24	13.200	41.3687	S52° 21' 14.26"W
C266	12+175.01	3138866.5323	1254440.4382	12+163.89	3138872.3718	1254449.9044	12+179.34	3138877.2623	1254437.5097	8.32	15.45	11.122	106.4038	S21° 31' 56.16"E
C267	12+197.10	3138894.3896	1254432.8351	12+191.22	3138888.7173	1254434.3832	12+202.32	3138897.1485	1254427.6428	13.60	11.10	5.880	46.7508	S51° 21' 31.48"E
C268	12+218.31	3138904.6520	1254413.5209	12+210.45	3138900.9641	1254420.4616	12+225.54	3138911.9029	1254410.4881	22.00	15.10	7.860	39.3191	S47° 38' 34.46"E
C269	12+270.85	3138953.7015	1254393.0055	12+250.69	3138935.1055	1254400.7835	12+270.72	3138935.1958	1254385.0149	8.57	20.03	20.157	133.9483	S0° 19' 41.96"E
C270	12+296.86	3138911.2046	1254374.6558	12+286.32	3138920.8750	1254378.8314	12+307.24	3138900.7421	1254373.4364	71.74	20.92	10.533	16.7067	S74° 59' 57.11"W
C271	12+330.46	3138877.6735	1254370.7480	12+316.97	3138891.0788	1254372.3103	12+343.47	3138864.9969	1254375.3789	56.84	26.50	13.496	26.7152	N83° 17' 23.39"W
C272	12+393.48	3138818.0227	1254392.5391	12+384.64	3138826.3251	1254389.5061	12+402.27	3138810.3600	1254396.9449	102.79	17.63	8.839	9.8299	N65° 01' 02.23"W
C273	12+473.05	3138749.0063	1254432.2215	12+459.03	3138761.1565	1254425.2355	12+485.54	3138745.5812	1254445.8119	33.05	26.51	14.015	45.9568	N37° 07' 26.23"W
C274	12+503.12	3138741.2849	1254462.8584	12+495.41	3138743.1702	1254455.3782	12+510.37	3138735.5125	1254467.9758	25.00	14.96	7.714	34.2971	N31° 17' 38.84"W
C275	12+527.91	3138722.3881	1254479.6107	12+518.88	3138729.1437	1254473.6218	12+535.79	3138722.5993	1254488.6361	19.46	16.91	9.028	49.7826	N23° 33' 04.97"W
C276	12+550.23	3138722.9369	1254503.0720	12+541.98	3138722.7441	1254494.8291	12+557.78	3138717.7355	1254509.4695	22.38	15.80	8.245	40.4523	N18° 53' 10.34"W
C277	12+609.75	3138684.9519	1254549.7921	12+603.50	3138688.8959	1254544.9410	12+615.75	3138683.7556	1254555.9286	25.00	12.25	6.252	28.0813	N25° 04' 18.05"W
C278	12+637.48	3138679.5985	1254577.2532	12+628.51	3138681.3154	1254568.4461	12+646.26	3138674.9264	1254584.9138	50.00	17.76	8.973	20.3478	N21° 12' 17.76"W
C279	12+698.37	3138647.7940	1254629.4006	12+686.44	3138654.0076	1254619.2127	12+710.20	3138639.4332	1254637.9153	103.94	23.76	11.933	13.0987	N37° 55' 41.55"W
C280	12+789.68	3138583.7493	1254694.6241	12+773.86	3138594.8295	1254683.3400	12+804.50	3138581.1734	1254710.2275	50.00	30.63	15.815	35.1034	N26° 55' 33.10"W

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.





 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINS CONSULTANT  J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS:  DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA
		a	AUG 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		b			DRAWN	INAM ULLAH			
		c			CHECKED	S-DURRANI			
					APPROVED	AQEEL YOUNIS			



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C281	12+836.18	3138576.0129	1254741.4869	12+821.15	3138578.4602	1254726.8627	12+850.35	3138582.1425	1254755.2047	50.00	29.19	15.025	33.4509	N7° 21' 04.84"E
C282	12+907.60	3138605.5017	1254807.4818	12+898.11	3138601.6267	1254798.8097	12+916.26	3138614.1575	1254811.3929	25.00	18.15	9.498	41.6074	N44° 52' 49.45"E
C283	12+935.80	3138631.9671	1254819.4402	12+926.94	3138623.8929	1254815.7919	12+944.19	3138640.7379	1254818.1852	30.44	17.24	8.860	32.4592	N81° 54' 49.23"E
C284	12+966.07	3138662.3978	1254815.0858	12+958.01	3138654.4223	1254816.2271	12+973.46	3138669.2241	1254819.3652	22.00	15.45	8.057	40.2270	N78° 01' 47.17"E
C285	12+993.32	3138686.0525	1254829.9150	12+984.34	3138678.4434	1254825.1449	12+997.80	3138689.8770	1254821.7894	7.96	13.46	8.981	96.8785	S73° 38' 40.14"E
C286	13+030.71	3138703.8935	1254792.0099	13+020.54	3138699.5586	1254801.2199	13+040.43	3138712.2573	1254786.2079	37.93	19.89	10.179	30.0457	S40° 13' 41.08"E
C287	13+065.95	3138733.2314	1254771.6582	13+053.88	3138723.3121	1254778.5392	13+072.02	3138738.9359	1254782.2978	10.77	18.14	12.072	96.5508	N76° 26' 25.20"E
C288	13+087.53	3138746.2650	1254795.9676	13+081.58	3138743.4516	1254790.7202	13+093.36	3138747.0399	1254801.8710	32.57	11.78	5.954	20.7201	N17° 50' 17.57"E
C289	13+126.11	3138751.3034	1254834.3505	13+118.89	3138750.3628	1254827.1848	13+133.21	3138754.4800	1254840.8421	44.14	14.33	7.227	18.5965	N16° 46' 35.25"E
C290	13+163.97	3138767.9979	1254868.4664	13+154.25	3138763.7285	1254859.7417	13+171.49	3138777.7057	1254868.1401	15.00	17.24	9.713	65.8502	N58° 59' 59.47"E
C291	13+198.35	3138804.5489	1254867.2379	13+189.01	3138795.2078	1254867.5519	13+205.85	3138809.2409	1254875.3212	15.62	16.84	9.346	61.7914	N61° 01' 45.34"E
C292	13+222.95	3138817.8246	1254890.1090	13+214.21	3138813.4352	1254882.5470	13+231.40	3138818.5172	1254898.8252	38.50	17.20	8.744	25.5907	N17° 20' 17.59"E
C293	13+266.79	3138821.3198	1254934.0985	13+247.04	3138819.7559	1254914.4156	13+285.77	3138813.5985	1254952.2712	80.50	38.73	19.745	27.5628	N9° 14' 18.62"W
C294	13+346.26	3138789.9416	1255007.9496	13+317.67	3138801.1211	1254981.6379	13+370.05	3138761.7858	1255012.9031	52.85	52.38	28.588	57.0020	N51° 31' 15.31"W
C295	13+399.57	3138732.7130	1255018.0180	13+390.52	3138741.6297	1255016.4492	13+408.11	3138726.1527	1255024.2575	30.00	17.59	9.054	33.5864	N63° 13' 43.52"W
C296	13+466.47	3138683.8617	1255064.4806	13+449.73	3138695.9955	1255052.9401	13+479.25	3138668.5526	1255057.6949	25.08	29.53	16.746	67.4897	N80° 10' 13.59"W
C297	13+518.73	3138632.4665	1255041.6997	13+498.10	3138651.3273	1255050.0598	13+521.95	3138635.9521	1255062.0337	11.05	23.85	20.631	123.6325	N52° 05' 20.69"W
C298	13+557.70	3138641.9930	1255097.2739	13+535.03	3138638.1626	1255074.9287	13+568.32	3138619.3219	1255097.2970	19.14	33.29	22.671	99.6687	N40° 06' 25.96"W
C299	13+609.53	3138578.1100	1255097.3390	13+594.35	3138593.2929	1255097.3235	13+618.09	3138578.3095	1255112.5206	15.00	23.74	15.183	90.6946	N44° 35' 39.44"W
C300	13+645.36	3138578.6678	1255139.7826	13+623.55	3138578.3812	1255117.9761	13+656.42	3138556.9550	1255137.7426	19.59	32.87	21.808	96.1204	N47° 18' 25.88"W
C301	13+776.34	3138437.5581	1255126.5249	13+766.77	3138447.0844	1255127.4199	13+785.05	3138429.8685	1255132.2188	25.00	18.26	9.566	41.8864	N74° 25' 27.04"W
C302	13+824.09	3138398.4920	1255155.4524	13+802.60	3138415.7615	1255142.6648	13+843.13	3138377.3716	1255151.4918	49.26	40.53	21.489	47.1400	N77° 03' 03.56"W
C303	13+886.89	3138334.3630	1255143.4266	13+878.61	3138342.4991	1255144.9523	13+894.99	3138327.2902	1255139.1257	45.36	16.38	8.278	20.6827	S69° 02' 15.61"W
C304	13+932.44	3138295.2867	1255119.6644	13+922.43	3138303.8390	1255124.8651	13+942.31	3138285.6028	1255117.1323	68.40	19.88	10.009	16.6503	S67° 01' 17.40"W
C305	14+042.48	3138188.6936	1255091.7930	14+031.75	3138199.0766	1255094.5079	14+050.56	3138182.4223	1255100.5022	15.65	18.81	10.732	66.8965	N70° 12' 18.35"W
C306	14+119.79	3138141.9659	1255156.6855	14+091.15	3138158.7032	1255133.4416	14+136.74	3138118.1202	1255140.8176	29.72	45.59	28.643	87.8845	N79° 41' 56.83"W
C307	14+186.84	3138076.4044	1255113.0582	14+177.99	3138083.7751	1255117.9630	14+195.65	3138070.0071	1255106.9378	100.27	17.66	8.854	10.0915	S51° 18' 46.30"W
C308	14+237.73	3138039.6027	1255077.8493	14+229.25	3138045.7323	1255083.7136	14+244.25	3138031.7942	1255081.1645	12.88	15.00	8.483	66.7376	S79° 38' 09.20"W
C309	14+262.82	3138014.7009	1255088.4218	14+255.54	3138021.4036	1255085.5781	14+269.84	3138007.4344	1255087.9507	30.67	14.30	7.282	26.7146	N80° 21' 09.39"W
C310	14+285.85	3137991.4577	1255086.9147	14+279.49	3137997.8062	1255087.3264	14+291.25	3137987.3947	1255091.6102	12.48	11.77	6.362	54.0189	N66° 42' 01.59"W
C311	14+311.49	3137974.4717	1255107.3810	14+302.46	3137980.2368	1255100.4346	14+318.17	3137966.0075	1255104.2430	12.74	15.71	9.027	70.6508	N75° 00' 59.08"W
C312	14+351.56	3137934.7012	1255092.6365	14+339.56	3137945.9472	1255096.8058	14+382.62	3137923.3282	1255096.4453	34.00	23.06	11.994	38.8576	S89° 05' 13.05"W
C313	14+411.60	3137876.8830	1255111.9999	14+401.52	3137886.4437	1255108.7980	14+421.62	3137868.1539	1255117.0459	100.00	20.10	10.083	11.5150	N65° 43' 36.37"W
C314	14+457.77	3137836.8589	1255135.1364	14+447.79	3137845.4962	1255130.1435	14+485.44	3137838.0171	1255145.0455	15.18	17.65	9.977	66.6362	N26° 39' 04.30"W
C315	14+496.41	3137841.6125	1255175.8043	14+474.32	3137839.0478	1255153.8627	14+513.17	3137822.2063	1255186.3632	32.68	38.85	22.091	68.1139	N27° 23' 24.22"W
C316	14+595.10	3137750.2417	1255225.5240	14+585.72	3137758.4809	1255221.0406	14+604.37	3137741.1148	1255227.6886	70.25	18.65	9.380	15.2112	N69° 03' 09.42"W
C317	14+625.70	3137720.3568	1255232.6115	14+615.71	3137730.0861	1255230.3041	14+635.20	3137713.2753	1255239.6709	35.37	19.49	9.999	31.5684	N60° 52' 26.39"W
C318	14+659.65	3137695.9542	1255256.9378	14+641.51	3137708.8037	1255244.1285	14+668.91	3137684.5212	1255242.8498	16.38	27.40	18.143	95.8493	S86° 59' 07.97"W
C319	14+706.35	3137660.9277	1255213.7774	14+695.97	3137667.4726	1255221.8422	14+716.65	3137652.7486	1255207.3761	91.94	20.68	10.386	12.8909	S45° 30' 22.86"W
C320	14+746.87	3137628.9490	1255188.7496	14+742.06	3137632.7367	1255191.7141	14+751.68	3137624.8948	1255186.1613	100.27	9.61	4.810	5.4925	S54° 41' 53.05"W

*[Handwritten signature]*

Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

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<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) TOURISM ROAD	SCALE:	SHEET CONTENT:
		a	AUG. 2024	TENDER DRAWINGS	DESIGNED	REHMAT		NTS:	HORIZONTAL CURVE DATA
		b			DRAWN	INAM ULLAH		DATE:	
		c			CHECKED	S-DURRANI		AUG 2024	
			APPROVED	AQEEL YOUNIS					



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C321	14+792.97	3137590.0877	1255163.9391	14+785.72	3137596.1974	1255167.8398	14+799.23	3137583.2351	1255166.3024	15.00	13.50	7.249	51.5838	S83° 14' 10.32"W
C322	14+817.85	3137565.6311	1255172.3736	14+806.86	3137576.0207	1255168.7905	14+827.57	3137555.9667	1255167.1409	25.00	20.71	10.990	47.4611	S85° 17' 51.13"W
C323	14+882.52	3137507.6416	1255140.9756	14+855.01	3137531.8335	1255154.0741	14+908.27	3137480.3318	1255144.2910	86.32	53.26	27.510	35.3548	S79° 14' 39.74"W
C324	14+975.26	3137413.8344	1255152.3637	14+966.72	3137422.3131	1255151.3344	14+983.75	3137405.3168	1255151.7319	87.39	17.03	8.541	11.1636	N88° 39' 36.18"W
C325	15+002.40	3137386.7195	1255150.3526	14+993.39	3137395.6976	1255151.0185	15+011.00	3137378.5839	1255154.2077	34.08	17.60	9.003	29.5967	N79° 26' 36.68"W
C326	15+068.26	3137326.8342	1255178.7303	15+054.37	3137339.3906	1255172.7802	15+081.95	3137316.5519	1255188.0761	93.45	27.59	13.895	16.9137	N56° 11' 18.08"W
C327	15+155.57	3137262.0766	1255237.5901	15+141.61	3137272.4081	1255228.1996	15+168.81	3137248.3498	1255240.1388	49.09	27.20	13.961	31.7499	N63° 36' 23.28"W
C328	15+200.52	3137217.1768	1255245.9268	15+182.39	3137235.0023	1255242.6171	15+207.17	3137219.5983	1255227.9591	13.13	24.79	18.130	108.1941	S46° 25' 17.51"W
C329	15+234.48	3137223.2458	1255200.8948	15+222.39	3137221.6310	1255212.8761	15+246.55	3137226.0432	1255189.1333	242.70	24.16	12.090	5.7034	S10° 31' 38.01"E
C330	15+288.75	3137235.8063	1255148.0851	15+253.63	3137227.6810	1255182.2473	15+319.78	3137216.0694	1255119.0414	79.66	66.15	35.115	47.5773	S10° 24' 35.11"W
C331	15+347.90	3137200.2624	1255095.7808	15+339.96	3137204.7270	1255102.3506	15+355.83	3137196.8186	1255088.7226	131.89	15.87	7.943	6.8929	S30° 45' 07.11"W
C332	15+386.63	3137182.4895	1255061.3545	15+369.29	3137190.4432	1255076.7608	15+402.51	3137166.4441	1255054.7847	47.09	33.23	17.338	40.4280	S47° 31' 10.29"W
C333	15+435.23	3137136.1638	1255042.3866	15+415.11	3137154.7866	1255050.0116	15+454.95	3137116.0553	1255041.6122	113.77	39.83	20.123	20.0610	S77° 45' 50.51"W
C334	15+554.18	3137016.8902	1255037.7932	15+541.20	3137029.8656	1255038.2929	15+567.02	3137004.4727	1255033.9962	100.00	25.83	12.985	14.7970	S80° 23' 45.75"W
C335	15+598.06	3136974.7960	1255024.9217	15+589.87	3136982.6280	1255027.3166	15+606.10	3136966.6093	1255025.1507	50.00	16.24	8.190	18.6047	S82° 17' 59.60"W
C336	15+707.88	3136864.8726	1255027.9964	15+687.21	3136885.5362	1255027.4184	15+728.31	3136845.0926	1255034.0019	154.04	41.10	20.672	15.2867	N80° 45' 15.96"W
C337	15+836.95	3136741.1378	1255065.5638	15+816.81	3136760.4070	1255059.7134	15+856.75	3136721.0052	1255065.1085	125.83	39.94	20.138	18.1843	N82° 12' 11.77"W
C338	15+906.89	3136670.8726	1255063.9748	15+890.41	3136687.3480	1255064.3474	15+922.25	3136657.4044	1255073.4715	50.00	31.84	16.480	36.4837	N73° 03' 12.86"W
C339	15+975.36	3136614.0005	1255104.0763	15+933.19	3136648.4624	1255079.7766	16+010.12	3136575.2153	1255087.5292	75.62	76.93	42.167	58.2930	N63° 57' 29.59"W
C340	16+051.70	3136536.9763	1255071.2152	16+038.25	3136549.3419	1255076.4908	16+062.92	3136525.7571	1255078.6225	25.00	24.87	13.444	56.5390	N84° 50' 06.83"W
C341	16+090.66	3136502.6089	1255093.9058	16+081.49	3136510.2631	1255088.8523	16+099.07	3136493.5027	1255092.8104	25.00	17.58	9.172	40.2937	N76° 42' 45.31"W
C342	16+119.63	3136473.0894	1255090.3547	16+111.32	3136481.3381	1255091.3470	16+127.36	3136465.8875	1255094.4971	25.00	16.04	8.308	36.7661	N78° 28' 35.04"W
C343	16+157.02	3136440.1814	1255109.2827	16+145.74	3136449.9574	1255103.6598	16+168.13	3136432.4715	1255117.5134	75.62	22.39	11.278	16.9644	N51° 36' 40.08"W
C344	16+195.61	3136413.6854	1255137.5684	16+178.23	3136425.5702	1255124.8808	16+212.14	3136410.0623	1255154.5711	62.48	33.91	17.384	31.0997	N27° 34' 44.56"W
C345	16+255.17	3136401.0935	1255196.6606	16+240.22	3136404.2097	1255182.0368	16+266.42	3136386.3250	1255198.9964	21.76	26.20	14.952	68.9832	N46° 31' 14.83"W
C346	16+284.28	3136368.6811	1255201.7870	16+277.09	3136375.7842	1255200.6636	16+291.40	3136362.0782	1255204.6380	57.12	14.31	7.191	14.3513	N73° 50' 12.37"W
C347	16+330.89	3136325.9997	1255220.2029	16+311.14	3136343.9504	1255212.4576	16+340.22	3136320.8225	1255201.3504	17.00	29.07	19.550	97.9830	S64° 20' 50.57"W
C348	16+375.94	3136311.3632	1255166.9051	16+355.07	3136316.8899	1255187.0303	16+393.70	3136291.8633	1255159.4668	41.17	38.63	20.870	53.7646	S42° 14' 17.49"W
C349	16+411.28	3136275.4392	1255153.2018	16+403.61	3136282.4131	1255155.8620	16+418.55	3136270.0088	1255148.0811	37.63	14.74	7.464	22.4391	S57° 54' 03.35"W
C350	16+433.70	3136258.9894	1255137.6901	16+427.30	3136263.6395	1255142.0750	16+439.94	3136253.0808	1255135.2531	34.65	12.64	6.391	20.9047	S57° 08' 01.39"W
C351	16+451.71	3136242.2066	1255130.7680	16+442.91	3136250.3432	1255134.1239	16+458.58	3136241.8162	1255121.9751	13.80	15.67	8.802	65.0443	S35° 03' 50.08"W
C352	16+469.46	3136241.3336	1255111.1036	16+463.52	3136241.5971	1255117.0391	16+475.32	3136239.3677	1255105.4970	40.28	11.80	5.941	16.7815	S10° 55' 56.96"W
C353	16+619.09	3136191.7947	1254969.8260	16+604.81	3136196.5193	1254983.2999	16+633.25	3136184.2350	1254957.7133	128.86	28.44	14.278	12.6455	S25° 38' 45.40"W
C354	16+671.00	3136164.2486	1254925.6894	16+661.68	3136169.1835	1254933.5966	16+680.23	3136157.6416	1254919.1149	80.73	18.56	9.321	13.1725	S38° 33' 17.71"W
C355	16+705.88	3136139.4615	1254901.0242	16+699.55	3136143.9524	1254905.4930	16+712.16	3136136.1165	1254895.6437	54.45	12.61	6.336	13.2724	S38° 30' 17.82"W
C356	16+753.06	3136114.5233	1254860.9105	16+738.86	3136122.0194	1254872.9682	16+766.91	3136103.0532	1254852.5429	72.97	28.05	14.198	22.0199	S42° 52' 43.23"W
C357	16+869.59	3136020.0974	1254792.0252	16+857.70	3136029.7010	1254799.0312	16+881.45	3136011.3913	1254783.9310	200.00	23.75	11.888	6.8030	S50° 29' 13.54"W
C358	16+900.58	3135997.3799	1254770.9042	16+891.27	3136004.2020	1254777.2468	16+909.87	3135989.7958	1254765.4957	143.65	18.60	9.315	7.4204	S50° 47' 44.74"W
C359	16+986.53	3135927.3827	1254720.9866	16+977.37	3135934.8385	1254726.3036	16+995.67	3135919.4549	1254716.4031	192.07	18.30	9.157	5.4594	S57° 14' 08.35"W
C360	17+038.74	3135882.1681	1254694.8455	17+029.76	3135889.9482	1254699.3436	17+047.71	3135874.9621	1254689.4753	154.45	17.95	8.987	6.6601	S56° 38' 07.11"W

*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA DWGNO. CEC/KP-RRDP/HWN-SWT-14/HCD-09
		0	AUG, 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		a			DRAWN	INAM ULLAH			
		b			CHECKED	S-DURRANI			
				APPROVED	ADEEL YOUNIS				



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C361	17+098.88	3135833.9332	1254658.8992	17+078.33	3135850.4073	1254671.1762	17+099.21	3135836.0397	1254679.3365	9.02	20.88	20.546	132.5795	N60° 24' 17.97"W
C362	17+119.13	3135838.0818	1254699.1492	17+114.96	3135837.6546	1254695.0045	17+123.27	3135837.7414	1254703.3018	45.04	8.31	4.167	10.5702	N0° 35' 58.72"E
C363	17+137.82	3135836.5530	1254717.8023	17+131.32	3135837.0845	1254711.3176	17+144.28	3135837.4146	1254724.2514	60.40	12.96	6.506	12.2956	N1° 27' 44.47"E
C364	17+197.45	3135844.4560	1254776.9524	17+186.52	3135843.0091	1254766.1235	17+206.29	3135835.7175	1254783.5096	18.65	19.77	10.925	60.7258	N22° 45' 09.87"W
C365	17+232.64	3135814.6416	1254799.3249	17+226.61	3135819.4605	1254795.7088	17+238.63	3135810.5487	1254803.7461	66.69	12.02	6.025	10.3237	N47° 57' 13.62"W
C366	17+269.02	3135789.9050	1254826.0456	17+261.50	3135795.0097	1254820.5314	17+276.52	3135784.2779	1254831.0257	151.00	15.02	7.514	5.6979	N45° 38' 27.16"W
C367	17+300.35	3135766.4325	1254846.8187	17+289.81	3135774.3251	1254839.8344	17+310.59	3135762.0311	1254856.3964	50.00	20.78	10.540	23.8068	N36° 35' 11.30"W
C368	17+355.22	3135743.3911	1254896.9543	17+343.40	3135748.3265	1254886.2155	17+366.65	3135743.5850	1254908.7713	51.97	23.24	11.819	25.6232	N11° 52' 17.37"W
C369	17+393.77	3135744.0301	1254935.8947	17+384.71	3135743.8814	1254926.8337	17+402.70	3135741.5351	1254944.6066	60.92	17.99	9.062	16.9213	N7° 31' 14.00"W
C370	17+482.17	3135719.6561	1255021.0022	17+412.03	3135738.9686	1254953.5680	17+456.08	3135707.0125	1254952.0059	16.43	44.06	70.145	153.6345	S87° 12' 05.42"W
C371	17+537.86	3135692.2728	1254871.5709	17+512.17	3135696.9031	1254896.8389	17+562.86	3135697.8267	1254846.4897	127.00	50.69	25.689	22.8703	S1° 03' 03.22"E
C372	17+663.90	3135719.6723	1254747.8366	17+632.72	3135712.9294	1254778.2871	17+689.12	3135696.3798	1254727.0963	53.16	56.41	31.188	60.8033	S17° 54' 56.22"W
C373	17+725.60	3135669.1360	1254702.8376	17+713.71	3135678.0214	1254710.7495	17+737.24	3135658.0219	1254698.5919	64.90	23.53	11.897	20.7753	S58° 42' 17.75"W
C374	17+828.80	3135572.4868	1254665.9166	17+770.63	3135626.8280	1254686.6755	17+884.94	3135514.5633	1254671.2800	250.00	114.31	58.171	26.1976	S82° 11' 29.01"W
C375	17+981.24	3135418.6776	1254680.1585	17+969.01	3135430.8547	1254679.0309	17+993.46	3135406.4555	1254680.5771	420.90	24.45	12.229	3.3285	N86° 22' 26.67"W
C376	18+032.59	3135367.3442	1254681.9167	18+010.78	3135389.1480	1254681.1699	18+050.75	3135356.0892	1254700.6060	40.20	39.98	21.817	56.9813	N59° 32' 51.66"W
C377	18+081.69	3135340.1275	1254727.1108	18+070.53	3135345.8886	1254717.5443	18+092.48	3135330.6998	1254733.0963	47.37	21.93	11.167	26.5324	N44° 19' 23.68"W
C378	18+157.41	3135275.8629	1254767.9110	18+143.18	3135287.8804	1254760.2813	18+162.86	3135272.0648	1254754.1922	10.55	19.68	14.235	106.9356	S68° 56' 33.91"W
C379	18+249.82	3135248.8621	1254670.3839	18+237.32	3135252.1969	1254682.4292	18+262.26	3135243.5041	1254659.0923	144.16	24.93	12.498	9.9099	S20° 25' 47.63"W
C380	18+375.91	3135194.7833	1254556.4162	18+352.17	3135204.9603	1254577.8637	18+399.19	3135178.0691	1254539.5580	139.11	47.03	23.740	19.3693	S35° 04' 10.18"W
C381	18+437.94	3135150.7893	1254512.0431	18+428.71	3135157.2875	1254518.5973	18+447.14	3135145.1849	1254504.7099	143.41	18.43	9.230	7.3649	S41° 04' 18.10"W
C382	18+487.40	3135120.7413	1254472.7266	18+472.96	3135129.5100	1254484.2001	18+501.57	3135108.7141	1254464.7345	86.26	28.62	14.441	19.0067	S46° 53' 33.21"W
C383	18+513.87	3135098.4732	1254457.9295	18+505.20	3135105.6980	1254462.7290	18+522.49	3135092.2508	1254451.8891	93.97	17.30	8.672	10.5454	S51° 07' 23.53"W
C384	18+556.53	3135067.8248	1254428.1777	18+541.65	3135078.5071	1254438.5475	18+571.41	3135056.3640	1254418.6753	380.04	29.76	14.888	4.4867	S48° 05' 37.89"W
C385	18+608.09	3135028.1233	1254395.2604	18+597.51	3135036.2725	1254402.0171	18+618.65	3135020.9194	1254387.5037	162.52	21.14	10.586	7.4537	S46° 36' 37.30"W
C386	18+670.25	3134985.8051	1254349.6943	18+658.95	3134993.4912	1254357.9703	18+681.03	3134983.2774	1254338.6861	42.22	22.07	11.295	29.9516	S27° 54' 27.79"W
C387	18+698.91	3134979.2748	1254321.2546	18+691.49	3134980.9346	1254328.4832	18+706.28	3134976.2854	1254314.4670	78.18	14.79	7.417	10.8385	S18° 21' 04.17"W
C388	18+730.00	3134966.7275	1254292.7661	18+723.68	3134969.2737	1254298.5471	18+736.24	3134965.7754	1254286.5214	47.65	12.56	6.317	15.1020	S16° 13' 09.77"W
C389	18+768.60	3134960.8988	1254254.5343	18+762.17	3134961.8671	1254260.8853	18+774.94	3134958.2371	1254248.6872	46.28	12.77	6.424	15.8073	S16° 34' 19.28"W
C390	18+815.91	3134941.2611	1254211.3947	18+793.98	3134950.3490	1254231.3588	18+837.42	3134939.4458	1254189.5348	126.15	43.44	21.935	19.7286	S14° 36' 40.88"W
C391	18+881.25	3134935.8183	1254145.8524	18+860.65	3134937.5230	1254166.3796	18+900.04	3134920.9626	1254131.5843	54.50	39.39	20.596	41.4089	S25° 27' 05.29"W
C392	18+966.18	3134873.2561	1254085.7649	18+938.80	3134893.0037	1254104.7313	18+992.51	3134846.9924	1254078.0245	112.22	53.71	27.381	27.4229	S59° 52' 02.42"W
C393	19+059.89	3134782.3693	1254058.9788	19+049.96	3134791.8891	1254061.7845	19+069.75	3134772.4837	1254058.0991	100.00	19.78	9.925	11.3357	S79° 14' 47.84"W
C394	19+120.18	3134722.2511	1254053.6287	19+105.14	3134737.2331	1254054.9620	19+126.02	3134727.7804	1254039.6406	11.24	20.88	15.041	106.4826	S31° 40' 23.32"W
C395	19+136.24	3134731.5396	1254030.1304	19+129.60	3134729.0988	1254036.3053	19+142.10	3134737.7518	1254027.7857	15.00	12.50	6.640	47.7540	S45° 26' 42.66"E
C396	19+163.02	3134757.3227	1254020.3991	19+146.30	3134741.6753	1254026.3049	19+179.48	3134774.0239	1254019.5087	107.87	33.19	16.725	17.6260	S78° 08' 06.61"E
C397	19+245.76	3134840.2048	1254015.9803	19+201.94	3134796.4457	1254018.3133	19+246.98	3134809.2652	1253984.9472	19.57	45.05	43.821	131.8618	S21° 01' 02.13"E
C398	19+272.09	3134791.5397	1253967.1682	19+264.67	3134796.7767	1253972.4210	19+279.47	3134787.2240	1253961.1356	90.86	14.80	7.417	9.3336	S40° 14' 48.61"W
C399	19+295.54	3134777.8755	1253948.0682	19+288.52	3134781.9599	1253953.7774	19+302.40	3134771.9929	1253944.2377	37.24	13.88	7.020	21.3494	S46° 15' 17.00"W
C400	19+321.99	3134755.5788	1253933.5494	19+314.95	3134761.4736	1253937.3879	19+328.83	3134751.6691	1253927.7016	34.32	13.88	7.034	23.1642	S45° 20' 50.37"W

Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

*[Handwritten Signature]*



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)  UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE:	SHEET CONTENT:
		0	AUG. 2024	TENDER DRAWINGS	DESIGNED	REHMAT		NTS:	HORIZONTAL CURVE DATA
		a			DRAWN:	INAM ULLAH		DATE:	
		b			CHECKED	S-DURRANI		AUG 2024	
c			APPROVED	AQEEL YOUNIS					





Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C401	19+363.81	3134732.2255	1253898.6188	19+345.11	3134742.6194	1253914.1655	19+381.55	3134715.2023	1253890.6763	65.70	36.44	18.701	31.7774	S49° 39' 14.23"W
C402	19+410.58	3134688.7753	1253878.8565	19+394.33	3134703.5679	1253885.5846	19+426.55	3134672.6133	1253877.1588	100.00	32.22	16.251	18.4608	S74° 46' 22.93"W
C403	19+451.67	3134647.6335	1253874.5348	19+443.52	3134655.7419	1253875.3865	19+459.74	3134639.9690	1253871.7549	66.69	16.23	8.153	13.9389	S77° 02' 02.20"W
C404	19+523.20	3134580.3148	1253850.1186	19+506.43	3134596.0795	1253855.8364	19+532.15	3134575.6040	1253866.2129	15.74	25.72	16.770	93.6210	N63° 07' 30.15"W
C405	19+561.37	3134567.3969	1253894.2525	19+544.84	3134572.0403	1253878.3883	19+568.73	3134552.8011	1253886.4940	13.46	23.89	16.530	101.6784	N67° 09' 13.52"W
C406	19+596.66	3134528.1399	1253873.3854	19+590.05	3134533.9718	1253878.4853	19+603.24	3134521.9378	1253871.1152	95.78	13.19	6.605	7.8889	S65° 57' 05.42"W
C407	19+618.30	3134507.7941	1253865.9383	19+613.35	3134512.4426	1253867.6397	19+623.18	3134503.8395	1253862.9611	33.38	9.83	4.950	16.8691	S61° 27' 41.14"W
C408	19+702.24	3134440.6804	1253815.4138	19+684.54	3134454.8136	1253826.0535	19+719.25	3134433.0197	1253799.4683	72.66	34.71	17.690	27.3657	S39° 20' 38.58"W
C409	19+773.16	3134409.6746	1253750.6767	19+730.65	3134428.0816	1253789.1899	19+804.53	3134367.4466	1253755.7261	59.71	73.88	42.506	70.8899	S61° 06' 22.22"W
C410	19+863.25	3134309.1106	1253762.4254	19+852.33	3134319.9626	1253761.1792	19+873.84	3134298.7277	1253759.0326	50.00	21.51	10.923	24.6470	S84° 13' 39.48"W
C411	19+924.84	3134250.2509	1253743.1918	19+905.91	3134268.2409	1253749.0704	19+924.06	3134259.1048	1253759.9192	7.65	18.15	18.926	135.9886	N40° 06' 05.60"W
C412	19+958.09	3134275.0239	1253789.9943	19+950.64	3134271.5394	1253783.4111	19+965.43	3134276.3833	1253797.3177	48.74	14.78	7.448	17.3770	N19° 12' 15.29"E
C413	19+988.28	3134280.5536	1253819.7837	19+980.57	3134279.1476	1253812.2094	19+995.70	3134278.4049	1253827.1817	32.45	15.13	7.704	26.7113	N2° 50' 23.70"W
C414	20+034.92	3134267.4650	1253864.8479	20+019.34	3134271.8101	1253849.8877	20+037.04	3134257.7041	1253852.7066	8.11	17.69	15.578	125.0073	N78° 41' 57.25"W
C415	20+071.62	3134236.0342	1253825.7519	20+063.96	3134240.8328	1253831.7207	20+078.70	3134228.5665	1253824.0532	22.00	14.74	7.659	38.3874	S57° 59' 26.92"W
C416	20+105.96	3134201.9853	1253818.0065	20+090.99	3134216.5870	1253821.3281	20+120.25	3134190.9883	1253807.8423	56.02	29.27	14.975	29.9309	S62° 13' 08.64"W
C417	20+170.12	3134154.3675	1253773.9947	20+161.79	3134160.4850	1253779.6489	20+178.41	3134147.4216	1253769.3960	103.09	16.62	8.330	9.2395	S51° 52' 24.08"W
C418	20+205.98	3134124.4353	1253754.1778	20+195.08	3134133.5252	1253760.1958	20+216.80	3134114.2622	1253750.2597	100.00	21.72	10.902	12.4431	S62° 42' 52.77"W
C419	20+373.06	3133968.4410	1253694.0978	20+364.09	3133976.8108	1253697.3214	20+381.98	3133959.8149	1253692.5023	94.73	17.88	8.969	10.8169	S74° 20' 40.84"W
C420	20+417.01	3133925.1430	1253686.2707	20+399.77	3133942.1030	1253689.3366	20+433.96	3133908.0620	1253688.5692	109.37	34.19	17.235	17.9108	S88° 42' 30.82"W
C421	20+464.61	3133877.6839	1253692.6571	20+453.27	3133888.9246	1253691.1445	20+474.68	3133871.0952	1253701.8892	26.20	21.41	11.342	46.8220	N58° 55' 30.14"W
C422	20+520.96	3133844.2121	1253739.5585	20+498.94	3133856.9994	1253721.6405	20+531.21	3133828.7581	1253723.8822	18.51	32.26	22.013	99.8952	N85° 27' 41.93"W
C423	20+542.80	3133820.6161	1253715.6230	20+536.97	3133824.7118	1253719.7777	20+548.59	3133815.7340	1253712.4290	54.52	11.62	5.834	12.2148	S50° 41' 53.42"W
C424	20+585.29	3133785.0270	1253692.3391	20+563.38	3133803.3588	1253704.3326	20+597.61	3133773.3077	1253710.8474	21.58	34.22	21.907	90.8527	N77° 46' 05.06"W
C425	20+649.86	3133745.4595	1253754.8280	20+622.32	3133760.0886	1253731.7243	20+665.83	3133721.8405	1253741.0463	28.36	43.51	27.346	87.9220	N76° 18' 09.90"W
C426	20+707.20	3133686.1113	1253720.1981	20+681.02	3133708.7175	1253733.3889	20+729.67	3133682.1314	1253694.3292	54.89	48.85	26.173	50.9899	S34° 14' 28.64"W
C427	20+818.33	3133668.6793	1253606.8927	20+781.15	3133674.3340	1253643.6476	20+849.71	3133635.3187	1253590.4618	71.39	68.57	37.187	55.0323	S36° 15' 45.02"W
C428	20+918.31	3133573.7838	1253560.1544	20+888.91	3133600.1595	1253573.1450	20+946.10	3133544.5744	1253563.5065	100.00	57.19	29.401	32.7679	S80° 09' 45.41"W
C429	20+986.87	3133504.0625	1253568.1556	20+960.77	3133529.9995	1253565.1791	21+012.52	3133478.5409	1253562.6571	158.52	51.75	26.107	18.7047	S67° 11' 39.26"W
C430	21+037.37	3133454.2472	1253557.4232	21+028.15	3133463.2629	1253559.3656	21+046.49	3133446.0134	1253553.2687	71.91	18.34	9.223	14.6159	S70° 32' 02.23"W
C431	21+064.30	3133430.1146	1253545.2467	21+056.58	3133437.0027	1253548.7222	21+071.96	3133422.6686	1253543.2265	75.99	15.38	7.715	11.5945	S69° 01' 23.67"W
C432	21+091.39	3133403.9134	1253538.1381	21+085.82	3133409.2977	1253539.5989	21+096.90	3133399.1241	1253535.2766	40.52	11.09	5.579	15.6774	S66° 58' 54.33"W
C433	21+127.94	3133372.4851	1253519.3607	21+121.38	3133378.1139	1253522.7237	21+134.48	3133366.5752	1253516.5206	144.67	13.10	6.557	5.1900	S61° 44' 16.97"W
C434	21+166.95	3133337.3107	1253502.4574	21+157.45	3133345.8742	1253506.5726	21+176.38	3133329.8184	1253496.6149	88.32	18.93	9.501	12.2803	S58° 11' 34.57"W
C435	21+206.24	3133306.2728	1253476.2539	21+194.99	3133315.1463	1253485.1735	21+217.44	3133296.3806	1253472.8905	135.69	22.45	11.253	9.4810	S56° 47' 35.84"W
C436	21+360.47	3133170.8465	1253404.7183	21+333.87	3133194.0301	1253417.3968	21+386.62	3133152.3951	1253385.3684	166.00	52.75	26.600	18.2073	S52° 25' 48.51"W
C437	21+438.32	3133116.9155	1253347.7532	21+420.77	3133128.9591	1253360.5218	21+455.85	3133103.6901	1253336.2133	361.02	35.08	17.552	5.5670	S46° 06' 35.98"W
C438	21+741.38	3132888.5486	1253148.4902	21+719.55	3132904.9910	1253162.8371	21+762.83	3132877.4248	1253129.7166	135.89	43.27	21.822	18.2459	S39° 46' 13.93"W
C439	21+824.61	3132845.9290	1253076.5610	21+815.81	3132850.4179	1253084.1369	21+833.38	3132840.1852	1253069.8861	100.00	17.57	8.806	10.0650	S35° 40' 48.34"W
C440	21+882.55	3132808.1104	1253032.6123	21+870.40	3132816.0385	1253041.8255	21+894.59	3132802.6202	1253021.7681	100.00	24.19	12.155	13.8603	S33° 46' 56.78"W

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.





CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA
		0	AUG. 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		a			DRAWN	INAM ULLAH			
		b			CHECKED	S-DURRANI			
		c			APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C441	21+933.21	3132785.1752	1252987.3112	21+923.92	3132789.3696	1252995.5958	21+942.47	3132780.0454	1252979.5708	159.07	18.55	9.286	6.6817	S30° 11' 35.28"W
C442	22+006.66	3132744.5868	1252926.0676	21+976.96	3132760.9928	1252950.8225	22+027.07	3132716.8276	1252936.6216	37.15	50.10	29.698	77.2827	S72° 10' 31.17"W
C443	22+084.34	3132663.2893	1252956.9767	22+067.42	3132679.1063	1252950.9632	22+100.95	3132650.3315	1252967.8594	100.00	33.53	16.922	19.2087	N59° 34' 44.40"W
C444	22+150.23	3132612.5925	1252999.5546	22+142.05	3132618.8550	1252994.2950	22+158.37	3132605.5588	1253003.7267	100.00	16.32	8.178	9.3506	N54° 38' 59.86"W
C445	22+235.11	3132539.5613	1253042.8738	22+229.35	3132544.5106	1253039.9381	22+240.84	3132534.2275	1253045.0338	76.28	11.49	5.755	8.6285	N63° 38' 22.21"W
C446	22+278.59	3132499.2328	1253059.2055	22+256.67	3132519.5524	1253050.9768	22+299.45	3132485.9972	1253076.6818	79.55	42.78	21.923	30.8156	N52° 32' 45.51"W
C447	22+330.05	3132467.5259	1253101.0714	22+321.98	3132472.3976	1253094.6388	22+338.11	3132462.3101	1253107.2282	295.17	16.13	8.069	3.1319	N38° 42' 14.88"W
C448	22+473.75	3132374.6343	1253210.7216	22+456.09	3132386.0489	1253197.2476	22+490.75	3132358.3283	1253217.5008	73.12	34.65	17.659	27.1549	N53° 50' 51.01"W
C449	22+530.80	3132321.3457	1253232.8762	22+518.04	3132333.1310	1253227.9765	22+541.48	3132318.8792	1253245.3989	23.86	23.44	12.763	56.2824	N39° 17' 01.53"W
C450	22+613.77	3132304.9092	1253316.3254	22+570.25	3132313.3190	1253273.6285	22+622.72	3132272.2610	1253287.5532	25.00	52.47	43.517	120.2466	N71° 15' 57.10"W
C451	22+680.64	3132228.8043	1253249.2556	22+663.43	3132241.7182	1253260.6363	22+696.97	3132211.8328	1253246.3817	60.47	33.54	17.213	31.7783	S64° 29' 59.99"W
C452	22+828.02	3132082.6203	1253224.5019	22+788.84	3132121.2523	1253231.0435	22+866.44	3132048.4045	1253205.4099	227.43	77.60	39.182	19.5501	S70° 36' 50.73"W
C453	22+969.44	3131958.4554	1253155.2194	22+909.28	3132010.9975	1253184.5373	23+025.92	3131931.9230	1253101.2171	192.74	116.64	60.168	34.6733	S43° 30' 08.67"W
C454	23+089.40	3131903.9286	1253044.2391	23+073.21	3131911.0688	1253058.7718	23+102.79	3131887.8248	1253042.5523	29.30	29.58	16.192	57.8546	S55° 05' 35.13"W
C455	23+187.65	3131803.4281	1253033.7123	23+161.18	3131829.7508	1253036.4694	23+213.50	3131779.9287	1253021.5362	140.00	52.32	26.467	21.4111	S73° 18' 53.44"W
C456	23+293.49	3131708.9046	1252984.7353	23+275.10	3131725.2330	1252993.1958	23+309.73	3131691.6555	1252991.1125	41.62	34.63	18.390	47.6807	S86° 26' 58.58"W
C457	23+327.56	3131674.9397	1252997.2925	23+313.24	3131688.3693	1252992.3275	23+341.49	3131660.6358	1252996.6575	70.91	28.26	14.318	22.8319	N81° 07' 33.65"W
C458	23+405.55	3131596.6414	1252993.8165	23+389.15	3131613.0322	1252994.5442	23+421.24	3131581.9874	1253001.1953	62.83	32.10	16.407	29.2688	N77° 54' 27.20"W
C459	23+444.13	3131561.5453	1253011.4886	23+431.71	3131572.6353	1253005.9044	23+456.42	3131549.4264	1253014.1911	100.00	24.71	12.417	14.1559	N70° 21' 03.98"W
C460	23+495.73	3131511.0545	1253022.7478	23+486.58	3131519.9932	1253020.7545	23+504.89	3131502.0049	1253024.1547	280.97	18.31	9.158	3.7339	N79° 17' 45.59"W
C461	23+599.08	3131408.9269	1253038.6256	23+582.35	3131425.4583	1253036.0555	23+615.70	3131393.2432	1253044.4492	165.66	33.35	16.730	11.5336	N75° 23' 46.09"W
C462	23+636.70	3131373.5572	1253051.7589	23+628.32	3131381.4115	1253048.8425	23+645.05	3131365.3890	1253053.6228	127.54	16.73	8.378	7.5166	N73° 23' 15.56"W
C463	23+790.78	3131223.3112	1253086.0430	23+761.40	3131251.9563	1253079.5066	23+818.56	3131195.6831	1253076.0456	100.00	57.15	29.381	32.7470	S86° 28' 50.00"W
C464	23+894.80	3131123.9887	1253050.1026	23+868.79	3131148.4436	1253058.9517	23+917.50	3131101.4219	1253063.0288	56.16	48.71	26.007	49.6969	N85° 02' 40.17"W
C465	23+972.17	3131053.9864	1253090.1997	23+946.33	3131076.4072	1253077.3571	23+987.06	3131040.9295	1253067.9031	26.09	40.73	25.838	89.4506	S75° 04' 43.11"W
C466	24+028.00	3131020.2381	1253032.5695	24+014.88	3131025.8698	1253043.8941	24+040.90	3131010.3636	1253023.9254	80.81	26.02	13.123	18.4478	S39° 34' 38.02"W
C467	24+082.05	3130979.4026	1252996.8221	24+060.59	3130995.5519	1253010.9593	24+096.06	3130962.9838	1253010.6454	25.00	35.47	21.463	81.2935	S89° 26' 52.24"W
C468	24+115.04	3130948.4620	1253022.8715	24+101.94	3130958.4872	1253014.4311	24+127.20	3130935.3698	1253023.4540	38.55	25.27	13.105	37.5472	N68° 40' 44.41"W
C469	24+163.84	3130898.7717	1253025.0822	24+148.30	3130914.2916	1253024.3918	24+178.80	3130884.6000	1253018.7178	65.38	30.50	15.535	26.7319	S79° 10' 53.20"W
C470	24+218.59	3130848.3022	1253002.4167	24+209.12	3130856.9447	1253006.2980	24+228.00	3130839.0355	1253000.4454	88.83	18.88	9.474	12.1751	S71° 54' 10.90"W
C471	24+270.65	3130797.3169	1252991.5707	24+264.43	3130803.3991	1252992.8646	24+276.85	3130791.1138	1252991.1365	88.87	12.42	6.218	8.0050	S81° 59' 35.14"W
C472	24+312.29	3130755.7607	1252988.6616	24+288.62	3130779.3706	1252990.3144	24+335.57	3130733.8043	1252979.8255	150.13	46.95	23.668	17.9175	S77° 02' 12.74"W
C473	24+379.41	3130693.1318	1252963.4572	24+371.72	3130700.2623	1252966.3268	24+387.08	3130686.3497	1252959.8404	143.12	15.36	7.686	6.1484	S65° 00' 14.26"W
C474	24+428.25	3130650.0267	1252940.4700	24+419.84	3130657.4467	1252944.4270	24+436.21	3130641.6414	1252941.1038	28.95	16.37	8.409	32.3928	S78° 07' 34.27"W
C475	24+477.28	3130600.6852	1252944.1996	24+464.80	3130613.1317	1252943.2588	24+487.51	3130595.1081	1252955.3664	22.00	22.71	12.482	59.1382	N56° 06' 29.95"W
C476	24+510.17	3130584.9822	1252975.6410	24+499.50	3130589.7471	1252966.1004	24+520.79	3130561.6865	1252985.7833	142.87	21.29	10.664	8.5380	N22° 16' 12.87"W
C477	24+544.23	3130574.4423	1253008.0771	24+535.94	3130577.0060	1253000.1872	24+552.50	3130570.7336	1253015.4979	110.94	16.56	8.296	8.5529	N22° 16' 39.78"W
C478	24+611.16	3130544.5097	1253067.9706	24+581.71	3130557.6768	1253041.6239	24+639.19	3130519.7145	1253083.8677	107.00	57.48	29.454	30.7805	N41° 56' 39.86"W
C479	24+762.08	3130416.2639	1253150.1935	24+663.75	3130499.0350	1253097.1260	24+703.89	3130480.8701	1253076.0771	14.04	40.13	98.322	163.7435	S40° 47' 36.95"W
C480	24+764.02	3130520.3802	1253030.7510	24+749.89	3130511.0954	1253041.4025	24+777.11	3130521.1645	1253016.6426	41.16	27.22	14.130	37.8964	S22° 07' 47.81"E

*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: MINS CONSULTANT J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA
		a	AUG, 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		b			DRAWN	INAM ULLAH			
		c			CHECKED	S-DURRANI			
					APPROVED	AQEEL YOUNIS	DWGNO. CEC/KP-RRDP/HWN-SWT-T4/HCD-12		



Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C481	24+823.06	3130523.7151	1252970.7579	24+801.01	3130522.4912	1252992.7756	24+844.70	3130517.6498	1252948.5567	130.75	43.69	22.052	19.1468	S6° 23' 30.11"W
C482	24+900.54	3130502.2909	1252895.8708	24+886.45	3130506.1670	1252909.4194	24+914.45	3130494.8466	1252883.9054	100.76	28.00	14.092	15.9229	S23° 55' 35.58"W
C483	24+972.51	3130464.1791	1252834.6130	24+953.35	3130474.3013	1252850.8825	24+991.27	3130460.2793	1252815.8528	107.87	37.93	19.161	20.1448	S21° 48' 56.09"W
C484	25+037.16	3130450.9405	1252770.9275	25+029.84	3130452.4292	1252778.0891	25+044.40	3130447.7988	1252764.3217	60.93	14.56	7.315	13.6920	S18° 35' 21.00"W
C485	25+078.66	3130433.0880	1252733.3898	25+058.59	3130441.7082	1252751.5151	25+096.26	3130441.0739	1252714.9763	44.16	37.68	20.071	48.8815	S0° 59' 39.92"W
C486	25+167.74	3130469.5130	1252649.4030	25+158.33	3130465.7700	1252658.0335	25+177.02	3130470.7201	1252640.0735	66.62	18.69	9.407	16.0744	S15° 24' 32.79"E
C487	25+206.35	3130474.4839	1252610.9817	25+192.30	3130472.6808	1252624.9184	25+214.12	3130460.4977	1252609.6150	13.62	21.82	14.053	91.7905	S38° 31' 23.97"W
C488	25+232.81	3130441.9015	1252607.7977	25+221.02	3130453.6313	1252608.9439	25+241.91	3130438.2166	1252596.6029	18.08	20.89	11.786	66.1989	S51° 19' 08.71"W
C489	25+260.53	3130432.3945	1252578.9151	25+252.85	3130434.7964	1252586.2122	25+268.16	3130428.5684	1252572.2535	75.30	15.31	7.682	11.6511	S24° 02' 42.61"W
C490	25+310.53	3130407.4687	1252535.5166	25+292.66	3130416.3667	1252551.0089	25+327.36	3130408.6541	1252517.6902	59.03	34.70	17.866	33.6749	S13° 01' 59.70"W
C491	25+347.52	3130409.9919	1252497.5700	25+338.50	3130409.3935	1252506.5697	25+355.94	3130405.1847	1252489.9383	27.75	17.44	9.020	36.0113	S14° 12' 05.21"W
C492	25+399.47	3130381.9868	1252453.1109	25+376.63	3130394.1607	1252472.4374	25+420.74	3130383.7753	1252430.3396	66.87	44.11	22.841	36.6980	S13° 51' 29.16"W
C493	25+537.28	3130392.9010	1252314.1504	25+521.79	3130391.6877	1252329.5989	25+552.74	3130396.0129	1252298.9701	250.00	30.95	15.496	7.0938	S8° 02' 16.13"E
C494	25+601.47	3130405.7986	1252251.2329	25+592.13	3130403.9229	1252260.3832	25+610.60	3130404.2444	1252242.0228	50.00	18.47	9.341	21.1629	S1° 00' 11.66"E
C495	25+650.95	3130397.5308	1252202.2371	25+641.48	3130399.1054	1252211.5684	25+660.12	3130399.9501	1252193.0883	43.79	18.64	9.463	24.3907	S2° 37' 01.66"E
C496	25+703.05	3130410.9235	1252151.5924	25+694.14	3130408.6462	1252160.2040	25+710.93	3130406.1279	1252144.0859	20.30	16.79	8.908	47.3848	S8° 52' 47.70"W
C497	25+731.09	3130395.2697	1252127.0892	25+721.30	3130400.5401	1252135.3392	25+740.41	3130394.9787	1252117.3037	35.46	19.10	9.790	30.8693	S17° 08' 15.65"W
C498	25+777.10	3130393.8882	1252080.6255	25+765.30	3130394.2388	1252092.4182	25+787.64	3130385.2038	1252072.6397	28.00	22.33	11.798	45.6967	S24° 33' 04.98"W
C499	25+847.93	3130340.8234	1252031.8294	25+826.11	3130356.8831	1252046.5972	25+867.77	3130319.0069	1252031.6284	56.73	41.66	21.817	42.0724	S68° 26' 09.27"W
C500	25+917.73	3130269.0485	1252031.1681	25+906.99	3130279.7876	1252031.2670	25+926.39	3130258.5753	1252028.7910	100.00	21.40	10.740	12.2596	S83° 20' 32.25"W
C501	25+994.72	3130193.8887	1252014.1094	25+983.41	3130204.9172	1252016.6125	26+006.00	3130183.2281	1252010.3349	192.92	22.59	11.309	6.7099	S73° 51' 27.17"W
C502	26+086.68	3130107.1739	1251983.4066	26+071.76	3130121.2363	1251988.3856	26+101.38	3130092.2707	1251982.7486	100.00	29.62	14.918	16.9694	S78° 59' 14.28"W
C503	26+134.34	3130059.3452	1251981.2949	26+129.52	3130064.1557	1251981.5073	26+139.00	3130055.0632	1251979.0924	22.00	9.48	4.815	24.6917	S75° 07' 34.20"W
C504	26+158.48	3130037.7441	1251970.1841	26+149.16	3130046.0307	1251974.4464	26+167.29	3130028.4696	1251971.0883	31.67	18.13	9.319	32.7882	S79° 10' 27.95"W
C505	26+218.33	3129977.6715	1251976.0409	26+193.38	3130002.4952	1251973.6207	26+242.81	3129953.4003	1251970.2978	150.00	49.43	24.941	18.8811	S86° 07' 40.73"W
C506	26+329.83	3129886.7226	1251950.2613	26+317.39	3129880.8289	1251953.1259	26+342.24	3129856.3547	1251948.9190	200.00	24.85	12.441	7.1187	S80° 14' 48.48"W
C507	26+384.19	3129814.6510	1251944.3931	26+370.12	3129828.6336	1251945.9106	26+398.13	3129801.3838	1251939.7243	121.62	28.01	14.065	13.1934	S77° 12' 34.13"W
C508	26+419.93	3129780.8201	1251932.4879	26+409.60	3129790.5629	1251935.9164	26+428.91	3129771.9587	1251937.7935	22.00	19.31	10.328	50.2975	N84° 14' 18.48"W
C509	26+457.08	3129747.7948	1251952.2612	26+436.31	3129765.6155	1251941.5914	26+462.79	3129745.7458	1251931.5918	13.17	26.49	20.771	115.2490	S63° 17' 08.85"W
C510	26+514.90	3129740.6058	1251879.7415	26+507.40	3129741.3458	1251887.2057	26+522.29	3129737.7253	1251872.8159	50.42	14.89	7.501	16.9225	S14° 07' 21.15"W
C511	26+568.85	3129719.8467	1251829.8310	26+556.01	3129724.7778	1251841.6867	26+581.65	3129713.4518	1251818.6966	201.66	25.65	12.840	7.2867	S26° 13' 37.55"W
C512	26+596.46	3129706.0756	1251805.8537	26+586.64	3129710.9687	1251814.3733	26+605.12	3129696.4655	1251803.8109	22.00	18.48	9.825	46.1295	S53° 56' 06.62"W
C513	26+653.09	3129649.5372	1251793.8360	26+647.92	3129654.5993	1251794.9120	26+658.08	3129644.5263	1251795.1295	22.00	10.17	5.175	26.4745	N88° 45' 46.21"W
C514	26+682.56	3129620.8303	1251801.2464	26+670.29	3129632.7106	1251798.1796	26+693.38	3129610.5919	1251794.4847	27.61	23.09	12.270	47.9163	S80° 30' 58.62"W
C515	26+725.22	3129584.0264	1251776.9401	26+704.52	3129601.2951	1251788.3448	26+743.05	3129582.3194	1251756.3159	42.59	36.53	20.695	51.8266	S30° 38' 41.44"W
C516	26+761.73	3129580.7788	1251737.7030	26+750.50	3129581.7046	1251748.8880	26+771.31	3129571.2610	1251731.7555	22.36	20.81	11.223	53.2682	S31° 21' 56.19"W
C517	26+821.36	3129528.8157	1251705.2324	26+805.89	3129541.9310	1251713.4279	26+836.75	3129517.3010	1251694.9084	178.95	30.85	15.465	9.8788	S53° 03' 36.95"W
C518	26+894.83	3129474.0551	1251656.1345	26+860.96	3129499.2749	1251678.7463	26+926.99	3129464.3719	1251623.6757	120.06	66.03	33.872	31.5098	S32° 21' 57.30"W
C519	27+063.42	3129425.3683	1251492.9324	27+040.43	3129431.9403	1251514.9622	27+084.52	3129406.1437	1251480.3262	62.93	44.08	22.989	40.1348	S36° 40' 42.28"W
C520	27+143.64	3129356.7013	1251447.9052	27+135.15	3129363.8040	1251452.5626	27+152.08	3129348.8190	1251444.7412	85.22	16.93	8.494	11.3833	S62° 26' 14.86"W

*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: MINS CONSULTANT J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) UTHROR TO THAL VIA BADGOI TOP TOURISM ROAD	SCALE:	SHEET CONTENT:
		a	AUG, 2024	TENDER DRAWINGS	DESIGNED	REHMAT		NTS:	HORIZONTAL CURVE DATA DWGNO. CEC/KP-RRDP/HWN-SWT-T-4HCD-13
		b			DRAWN	INAM ULLAH		DATE:	
		c			CHECKED	S-DURRANI		AUG 2024	
			APPROVED	AQEEL YOUNIS					





Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C521	27+193.13	3129310.7190	1251429.4475	27+171.43	3129330.8652	1251437.5344	27+211.99	3129304.1603	1251408.7532	45.98	40.56	21.709	50.5441	S42° 51' 25.36"W
C522	27+243.43	3129294.6610	1251378.7806	27+227.56	3129299.4575	1251393.9147	27+256.71	3129279.4045	1251374.3890	29.64	29.15	15.876	56.3567	S45° 45' 48.12"W
C523	27+343.29	3129196.1950	1251350.4375	27+333.92	3129205.2073	1251353.0316	27+352.66	3129186.9792	1251348.7002	199.50	18.74	9.378	5.3827	S76° 37' 59.08"W
C524	27+386.55	3129153.6758	1251342.4222	27+374.47	3129165.5463	1251344.6599	27+393.50	3129155.8224	1251330.5349	12.17	19.03	12.080	89.5601	S34° 32' 39.68"W
C525	27+426.73	3129161.7280	1251297.8297	27+411.00	3129158.9325	1251313.3113	27+438.07	3129147.7264	1251290.6567	21.22	27.07	15.732	73.1098	S26° 19' 08.99"W
C526	27+454.82	3129132.8248	1251283.0227	27+448.86	3129138.1289	1251285.7400	27+460.56	3129129.3169	1251278.2047	25.00	11.70	5.960	26.8166	S49° 27' 56.67"W
C527	27+475.83	3129120.3287	1251265.8594	27+466.37	3129125.8982	1251273.5091	27+484.63	3129111.2743	1251263.1106	28.24	18.26	9.462	37.0549	S54° 35' 05.55"W
C528	27+504.37	3129092.3835	1251257.3756	27+497.19	3129099.2559	1251259.4620	27+510.56	3129089.6998	1251250.7137	15.00	13.40	7.182	51.1709	S47° 31' 36.77"W
C529	27+527.95	3129083.2087	1251234.6001	27+520.97	3129085.8185	1251241.0788	27+534.04	3129076.5704	1251232.4277	15.00	13.07	6.985	49.9377	S48° 54' 37.09"W
C530	27+632.97	3128982.5520	1251201.6599	27+621.35	3128993.5980	1251205.2747	27+644.57	3128971.9610	1251196.8733	214.62	23.22	11.622	6.1994	S68° 46' 45.98"W
C531	27+749.86	3128876.0105	1251153.5091	27+690.69	3128929.9272	1251177.8764	27+806.55	3128840.4024	1251106.2561	231.45	115.85	59.167	28.6795	S51° 20' 23.97"W
C532	27+932.55	3128764.5738	1251005.6290	27+895.06	3128787.1356	1251035.5693	27+969.72	3128749.2119	1250971.4315	333.96	74.67	37.489	12.8102	S30° 35' 42.58"W
C533	28+057.88	3128713.0899	1250891.0191	28+025.50	3128726.3571	1250920.5536	28+088.56	3128717.4228	1250858.9328	113.36	63.08	32.378	31.8807	S8° 14' 59.05"W
C534	28+132.58	3128723.3118	1250815.3227	28+121.94	3128721.8883	1250825.8640	28+143.21	3128723.8348	1250804.6985	250.00	21.26	10.637	4.8727	S5° 15' 15.23"E
C535	28+210.25	3128727.1306	1250737.7376	28+196.73	3128726.4659	1250751.2422	28+223.72	3128725.8570	1250724.2767	188.10	27.00	13.521	8.2229	S1° 17' 36.90"W
C536	28+283.70	3128720.2070	1250664.5613	28+245.45	3128723.8106	1250702.6478	28+320.49	3128734.5922	1250629.1123	156.39	75.04	38.257	27.4924	S8° 20' 28.14"E
C537	28+363.32	3128750.6969	1250589.4259	28+338.65	3128741.4227	1250612.2802	28+386.38	3128744.9320	1250565.4448	76.81	47.73	24.664	35.6046	S4° 17' 06.20"E
C538	28+480.61	3128722.9087	1250473.8326	28+467.99	3128725.8577	1250486.0996	28+489.20	3128710.2967	1250474.1674	15.58	21.21	12.616	78.0032	S52° 31' 07.66"W
C539	28+545.03	3128654.4893	1250475.6486	28+520.46	3128679.0427	1250474.9969	28+560.68	3128650.8616	1250451.3559	27.75	40.21	24.562	83.0270	S50° 00' 24.80"W
C540	28+605.51	3128644.2401	1250407.0155	28+586.20	3128647.0921	1250426.1137	28+624.35	3128634.4825	1250390.3522	100.00	38.15	19.310	21.8586	S19° 25' 21.75"W
C541	28+661.22	3128615.8505	1250358.5337	28+645.41	3128623.8396	1250372.1770	28+669.72	3128602.6873	1250367.2914	14.93	24.31	15.810	93.2645	S76° 59' 39.33"W
C542	28+725.86	3128555.9458	1250398.3893	28+709.36	3128569.6771	1250389.2536	28+739.71	3128540.6624	1250392.1902	31.21	30.34	16.493	55.7144	N84° 13' 14.57"W
C543	28+767.94	3128514.5002	1250381.5786	28+753.30	3128528.0646	1250367.0805	28+781.37	3128500.5885	1250386.1315	40.00	28.06	14.638	40.1996	S88° 01' 18.77"W
C544	28+809.93	3128473.4456	1250395.0145	28+792.92	3128489.6076	1250389.7252	28+825.06	3128458.4600	1250386.9761	39.74	32.14	17.005	46.3312	S84° 57' 21.90"W
C545	28+878.46	3128411.3979	1250361.7315	28+858.41	3128429.0706	1250371.2113	28+898.43	3128392.4401	1250355.1902	250.00	40.02	20.055	9.1727	S66° 22' 36.61"W
C546	28+921.39	3128370.7385	1250347.7022	28+912.07	3128379.5520	1250350.7432	28+930.71	3128362.1090	1250344.1724	332.81	18.64	9.323	3.2094	S69° 21' 30.69"W
C547	28+962.40	3128332.7804	1250332.1761	28+956.33	3128338.3994	1250334.4744	28+968.42	3128326.8007	1250331.1288	56.28	12.09	6.071	12.3125	S73° 54' 36.44"W
C548	28+993.71	3128301.8884	1250326.7659	28+986.43	3128309.0568	1250328.0213	29+000.94	3128295.0936	1250324.1596	75.23	14.51	7.278	11.0516	S74° 32' 26.18"W
C549	29+052.10	3128247.3276	1250305.8361	29+027.81	3128270.0053	1250314.5366	29+051.02	3128257.6793	1250327.8105	9.76	23.21	24.289	136.2115	N42° 52' 45.97"W
C550	29+126.02	3128289.6430	1250395.6558	29+092.89	3128275.5249	1250365.6891	29+158.74	3128295.1922	1250428.3136	242.10	65.84	33.126	15.5826	N17° 26' 06.02"E
C551	29+249.81	3128310.4490	1250518.1002	29+233.29	3128307.6811	1250501.8110	29+266.32	3128314.1278	1250534.2082	587.64	33.04	16.523	3.2211	N11° 15' 15.38"E
C552	29+308.31	3128323.4771	1250575.1447	29+294.39	3128320.3767	1250561.5697	29+322.06	3128322.7508	1250589.0503	100.00	27.67	13.925	15.8544	N4° 56' 15.51"E
C553	29+364.90	3128320.5164	1250631.8348	29+351.27	3128321.2274	1250618.2213	29+377.99	3128326.2901	1250644.1838	54.58	26.72	13.632	28.0475	N11° 02' 03.08"E
C554	29+428.06	3128347.4992	1250689.5472	29+415.79	3128342.2990	1250678.4247	29+440.08	3128348.4899	1250701.7870	67.82	24.29	12.278	20.5236	N14° 47' 46.12"E
C555	29+464.43	3128350.3952	1250726.0639	29+455.53	3128349.6916	1250717.1925	29+473.28	3128352.7797	1250734.6377	92.36	17.74	8.899	11.0079	N10° 02' 17.86"E
C556	29+512.02	3128363.1600	1250771.9609	29+505.48	3128361.4096	1250765.6672	29+518.37	3128362.2976	1250778.4362	31.93	12.89	6.533	23.1285	N3° 58' 40.85"E
C557	29+547.26	3128358.4843	1250807.0679	29+537.91	3128359.7185	1250797.8015	29+556.15	3128362.1913	1250815.6498	33.77	18.24	9.348	30.9483	N7° 53' 16.48"E
C558	29+573.03	3128368.8869	1250831.1507	29+568.80	3128367.2100	1250827.2684	29+577.22	3128369.5267	1250835.3310	32.87	8.41	4.229	14.6614	N16° 01' 52.85"E
C559	29+601.89	3128373.2598	1250859.7250	29+593.60	3128372.0057	1250851.5301	29+610.13	3128376.1366	1250867.5002	81.59	16.52	8.290	11.6038	N14° 30' 09.23"E
C560	29+707.10	3128409.7885	1250958.4515	29+691.76	3128404.4651	1250944.0638	29+722.18	3128419.3592	1250970.4410	95.27	30.42	15.341	18.2943	N29° 27' 05.81"E

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.





CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  MINS CONSULTANT J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE: NTS: DATE: AUG 2024	SHEET CONTENT: HORIZONTAL CURVE DATA
		a	AUG. 2024	TENDER DRAWINGS	DESIGNED	REHMAT			
		b			DRAWN	INAM ULLAH			
		c			CHECKED	S-DURRANI			
					APPROVED	AOEEL YOUNIS			






Curve Table: Alignments

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	PT Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C561	29+854.90	3128502.1577	1251074.1655	29+803.89	3128470.3318	1251034.2961	29+904.54	3128515.8183	1251123.3168	250.00	100.65	51.014	23.0666	N27° 03' 55.68"E
C562	29+999.26	3128541.1843	1251214.5846	29+984.80	3128537.3102	1251200.6454	30+013.70	3128546.6405	1251227.9839	250.00	28.90	14.468	6.6240	N18° 50' 39.12"E
C563	30+107.74	3128582.1076	1251315.0835	30+094.33	3128577.0480	1251302.6582	30+121.15	3128586.3141	1251327.8229	395.75	26.82	13.416	3.8831	N20° 12' 52.79"E
C564	30+260.80	3128630.0998	1251460.4275	30+250.43	3128626.8493	1251450.5833	30+271.15	3128632.5242	1251470.5070	250.00	20.72	10.367	4.7491	N15° 53' 54.72"E
C565	30+396.51	3128661.8408	1251592.3947	30+370.68	3128655.7989	1251567.2747	30+422.17	3128662.6177	1251618.2195	250.00	51.49	25.836	11.8007	N7° 37' 25.08"E
C566	30+527.04	3128665.7715	1251723.0435	30+510.10	3128665.2621	1251706.1120	30+543.94	3128664.4007	1251739.9271	304.64	33.84	16.939	6.3651	N1° 27' 33.33"W
C567	30+596.95	3128660.1111	1251792.7589	30+584.23	3128661.1404	1251780.0823	30+609.66	3128658.2786	1251805.3445	400.00	25.43	12.718	3.6423	N6° 27' 46.69"W
C568	30+786.28	3128632.8311	1251980.1204	30+778.39	3128633.9681	1251972.3114	30+794.16	3128631.2038	1251987.8422	250.00	15.78	7.891	3.6159	N10° 05' 31.50"W
C569	30+894.05	3128610.6072	1252085.5797	30+877.85	3128613.9467	1252069.7330	30+910.21	3128605.5085	1252100.9502	287.03	32.36	16.195	6.4586	N15° 07' 45.70"W
C570	30+950.92	3128592.6840	1252139.5888	30+942.95	3128595.1926	1252132.0297	30+955.78	3128588.2161	1252146.1821	57.53	15.83	7.964	15.7652	N26° 14' 28.67"W
C571	30+973.34	3128580.0520	1252158.2295	30+966.11	3128584.1038	1252152.2504	30+979.44	3128572.8305	1252158.3632	13.93	13.33	7.223	54.8158	N61° 31' 54.63"W

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.





 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINS CONSULTANT  J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	PROJECT:  N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROAD	SCALE:	SHEET CONTENT:
		0	AUG, 2024	TENDER DRAWINGS	DESIGNED	REHMAT			NTS:	HORIZONTAL CURVE DATA
		a			DRAWN:	INAM ULLAH			DATE:	
		b			CHECKED	S-DURRANI			AUG 2024	
c			APPROVED	AQEEB YOUNIS						



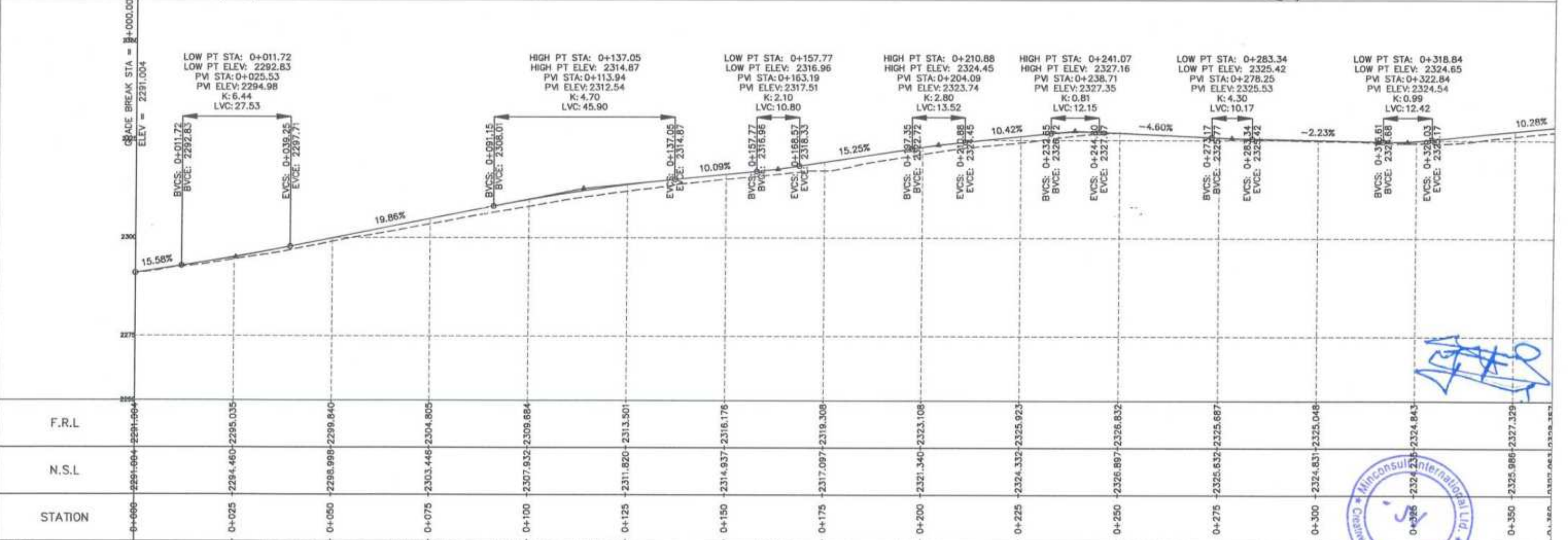
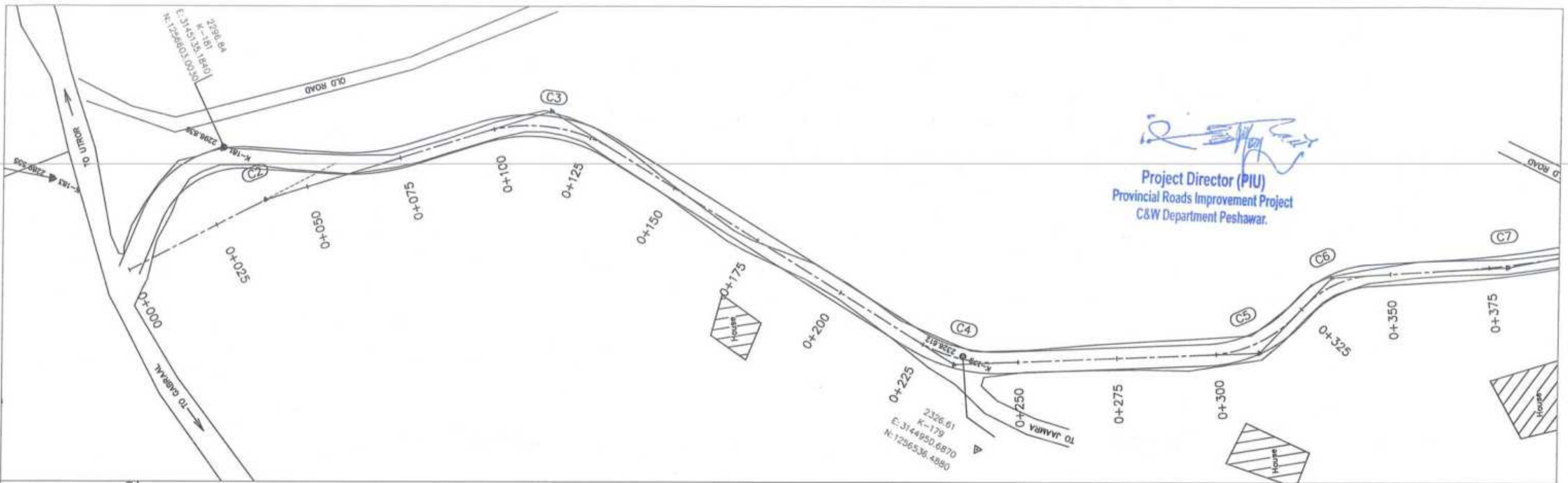
# PLAN & PROFILE DRAWINGS



Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



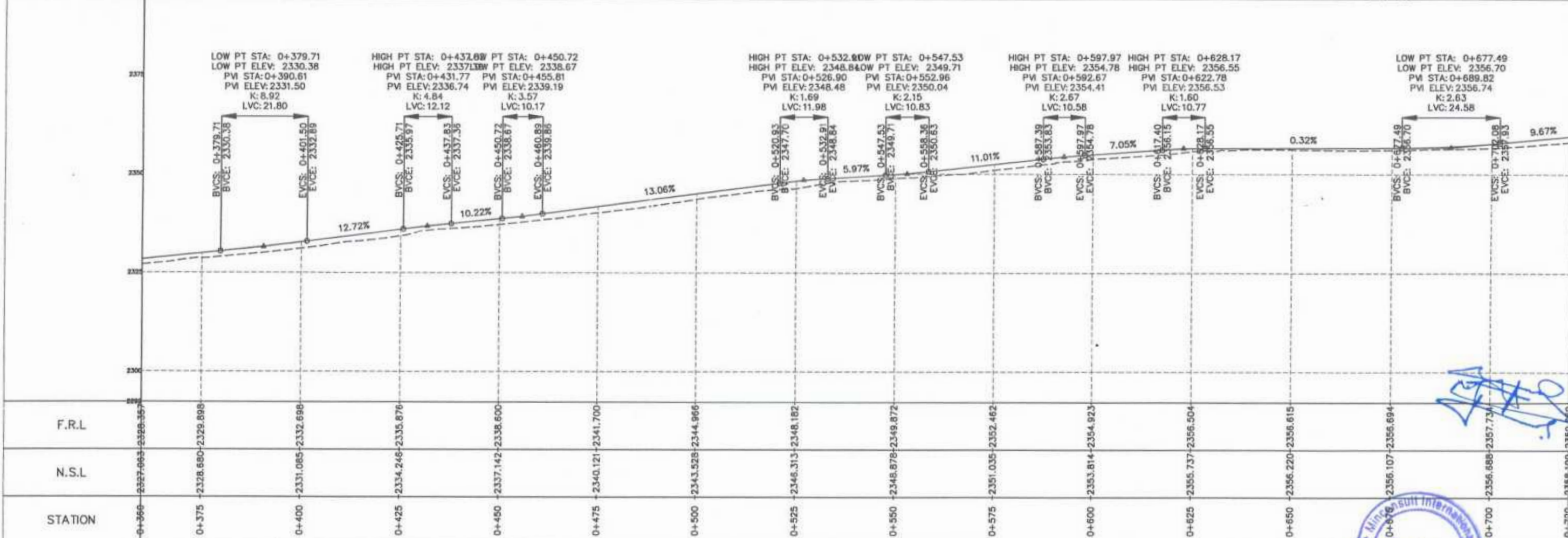
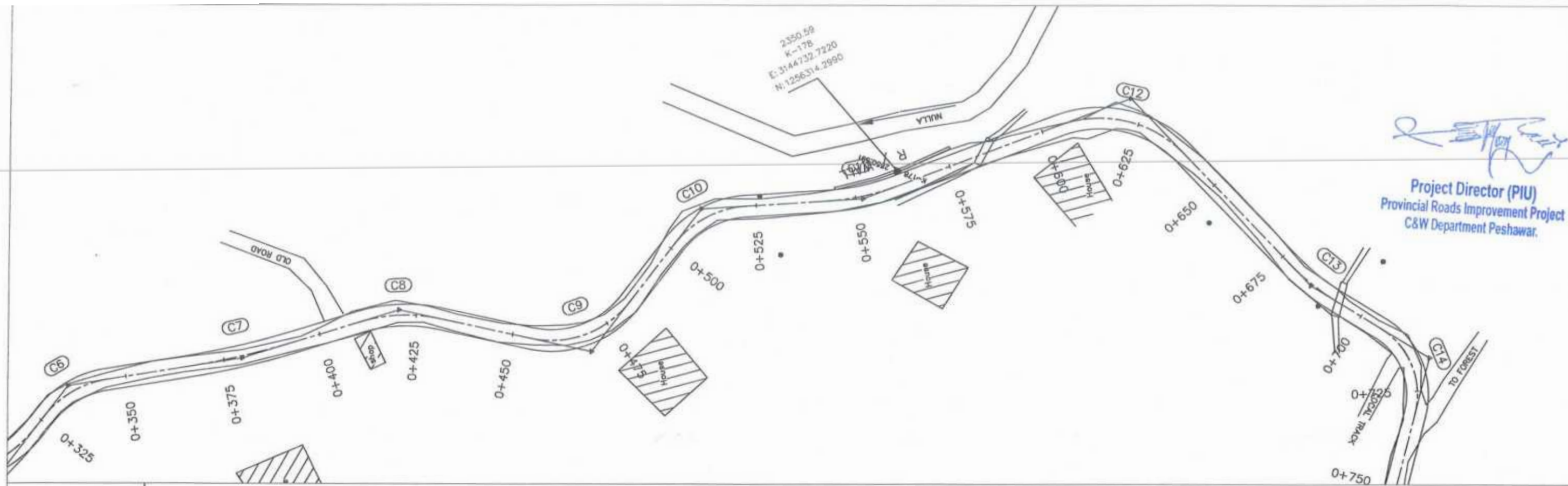




CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED: S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024.	PLAN & PROFILE 0+000.00 - 0+360.00
		a			DRAWN: IFTIKHAR ABBAS				
		b			CHECKED: S.DURRANI				
		c			APPROVED: AQEEL YOUNIS				
Minconsult International Ltd. Engineering Consultants									
CEC/KP-RRDP/HWN-SWT-T4/PP/ 1									

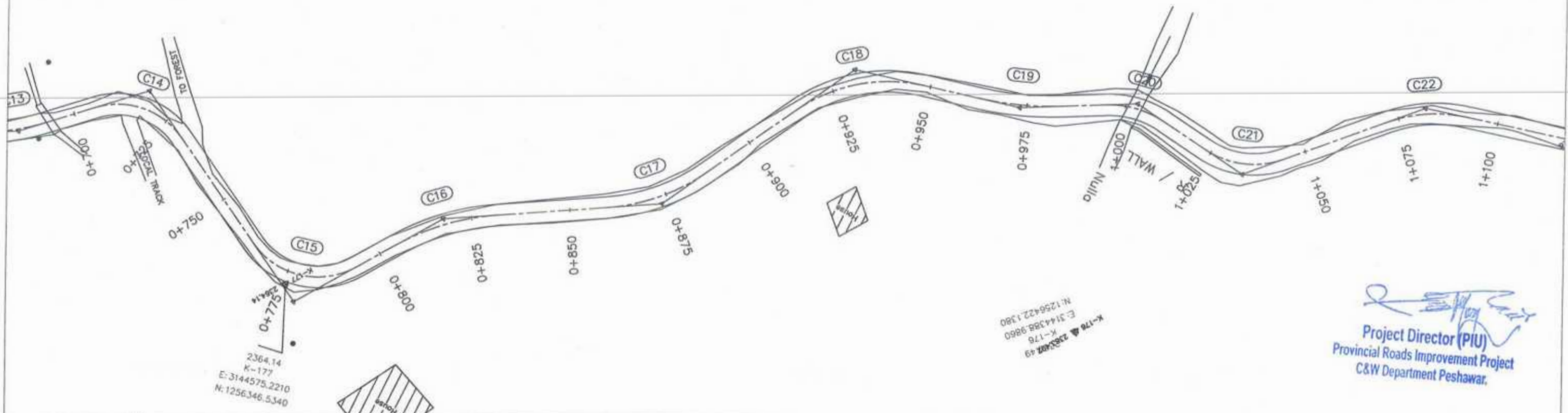



Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

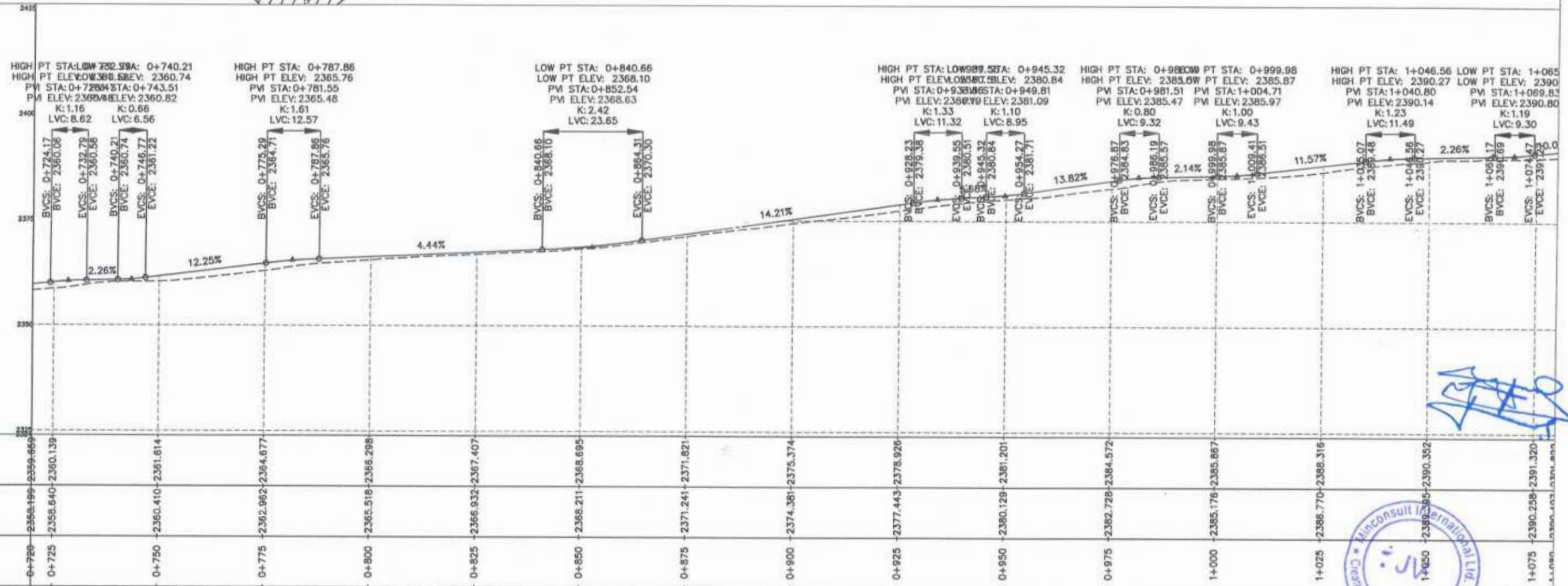


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000  DATE: AUG, 2024.	PLAN & PROFILE 0+360.00 - 0+720.00  CEC/KP-RRDP/HWN-SWT-T4/PP/ 2
		a			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S.DURRANI				
		c			APPROVED AQEEL YOUNIS				








  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

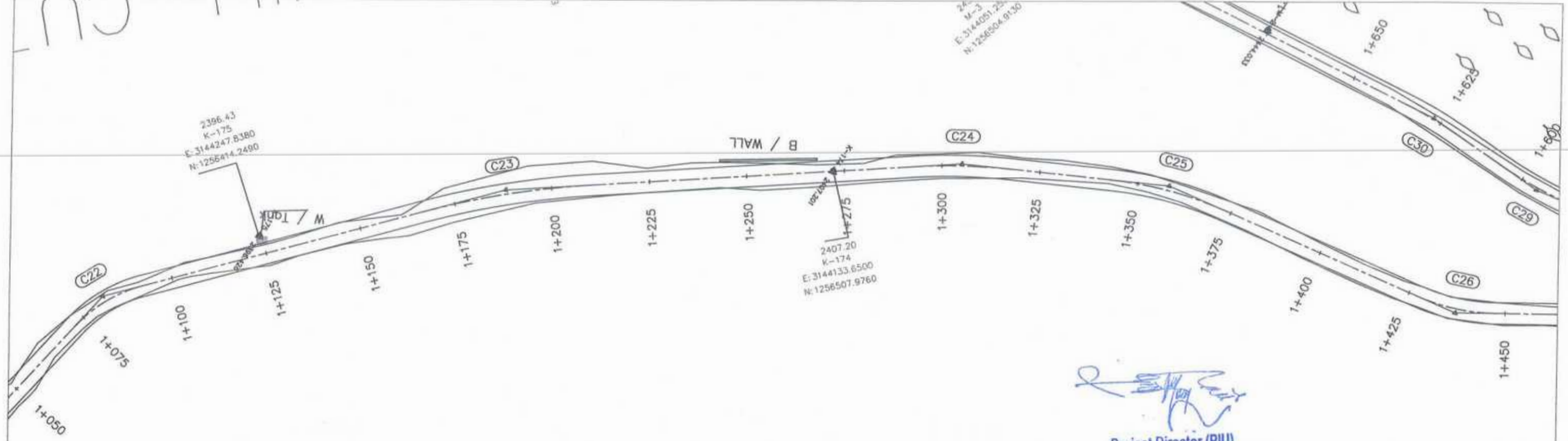


F.R.L	2355.669	2359.669	2361.614	2364.677	2366.298	2367.407	2368.695	2371.821	2373.374	2375.926	2381.201	2384.572	2385.867	2388.316	2390.352	2391.320
N.S.L	2355.199	2355.640	2360.139	2362.962	2365.518	2366.932	2368.211	2371.241	2374.361	2377.443	2380.129	2382.728	2385.176	2386.770	2389.295	2390.258
STATION	0+720	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075

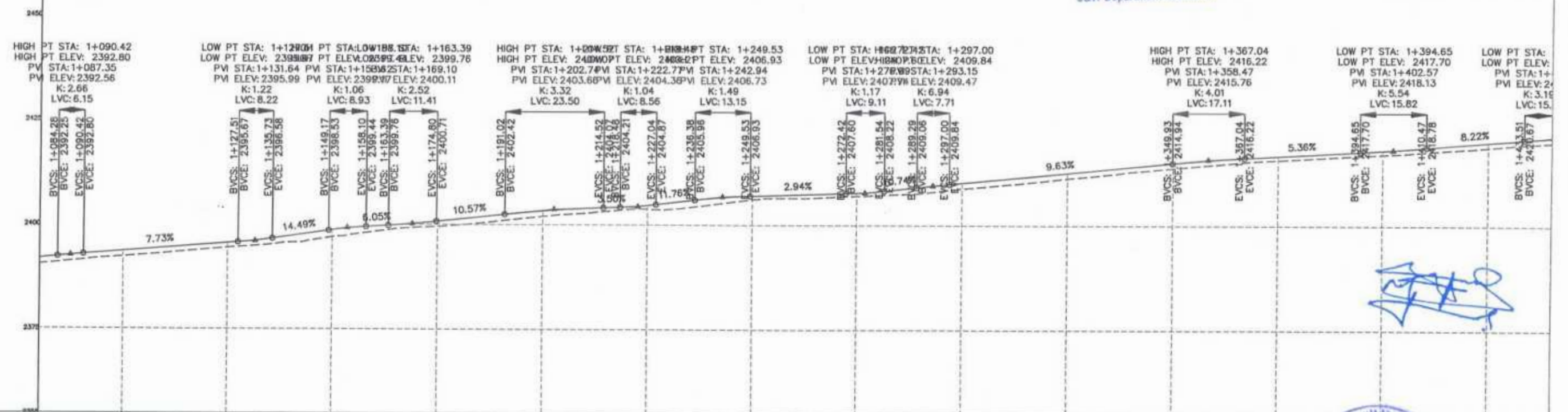
 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG, 2024	BRIEF CONTENT: PLAN & PROFILE 0+720.00 - 1+080.00 CEC/KP-RRDP/HWN-SWT-T4/PP/
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YOUNIS				










  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

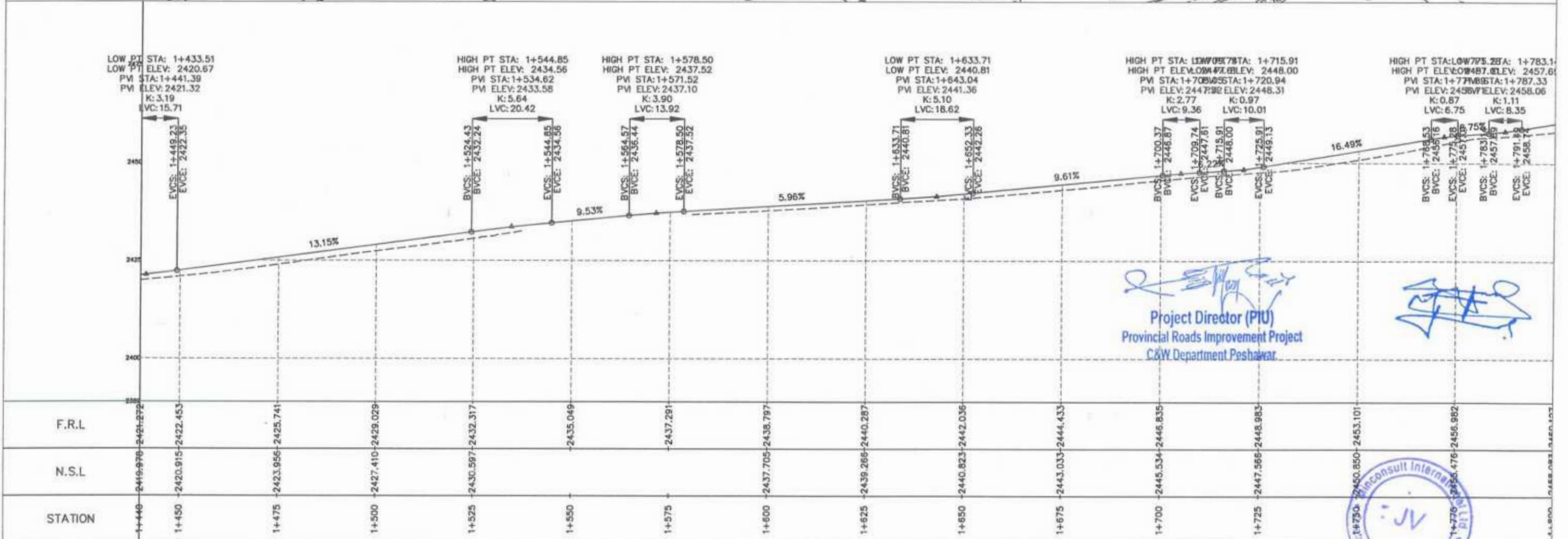


F.R.L	2391.625	2391.625	2395.472	2395.472	2398.643	2400.730	2403.250	2404.645	2406.943	2407.706	2410.132	2412.540	2414.948	2416.650	2418.017	2419.973	2420.877
N.S.L	2390.497	2392.229	2395.369	2396.977	2398.533	2399.487	2401.960	2403.745	2406.084	2406.984	2408.772	2411.235	2413.730	2415.730	2417.080	2418.772	2420.877
STATION	1+050	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400	1+425	1+450	



 CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC)  MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0 DATE: AUG. 2024 DESCRIPTION: Tender Drawings.	NAMES: G. DESIGNED: S. DURRANI DRAWN: IFTIKHAR ABBAS CHECKED: S. DURRANI APPROVED: AQEEL YOUNIS	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024	SHEET CONTENT: PLAN & PROFILE 1+080.00 - 1+440.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 4
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STATION	N.S.L	F.R.L
1+440	2419.976	2421.972
1+450	2420.915	2422.453
1+475	2423.956	2425.741
1+500	2427.410	2429.029
1+525	2430.597	2432.317
1+550	2435.049	2435.049
1+575	2437.291	2437.291
1+600	2437.705	2438.797
1+625	2439.266	2440.287
1+650	2440.823	2442.036
1+675	2443.033	2444.433
1+700	2445.534	2446.835
1+725	2447.566	2448.983
1+750	2450.850	2453.101
1+775	2455.476	2458.982
1+800		

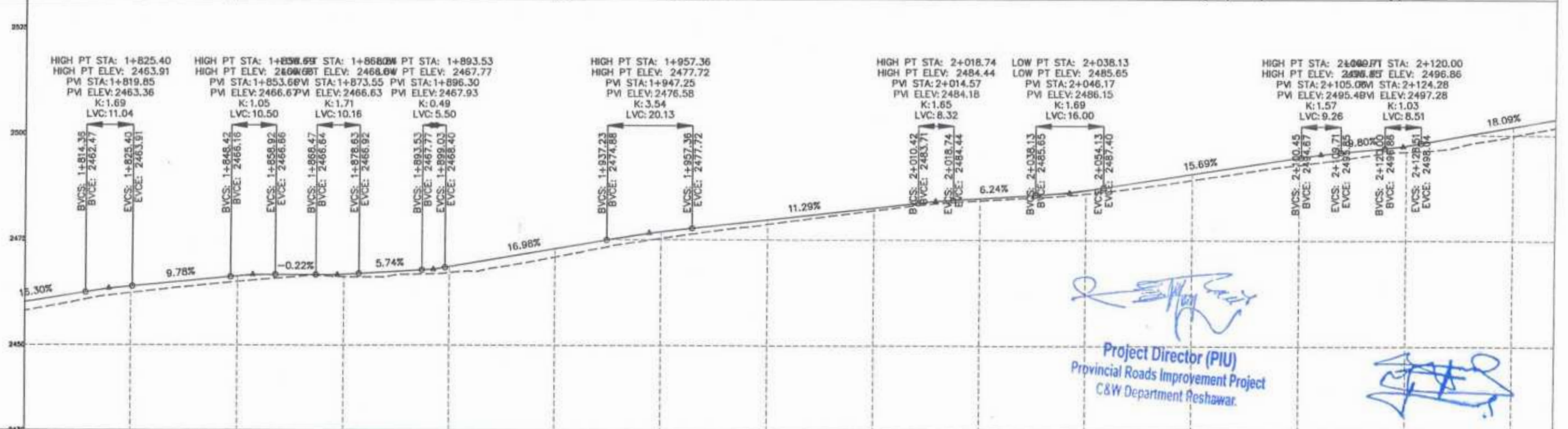
  

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58825-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG.2024	Tender Drawings.	G. DESIGNED	S.DURRANI	<p>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP</p> <p>TOURISM ROADS</p>	H=1:1000 V=1:1000	<p>PLAN &amp; PROFILE 1+440.00 - 1+800.00</p>	
		a			DRAWN	IFTIKHAR ABBAS		<p>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</p>		DATE:
		b			CHECKED	S.DURRANI				AUG. 2024.
		c			APPROVED	AQEEL YOUNIS				CEC/KP-RRDP/HWN-SWT-T4/PP/

Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar







*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Reshwar.

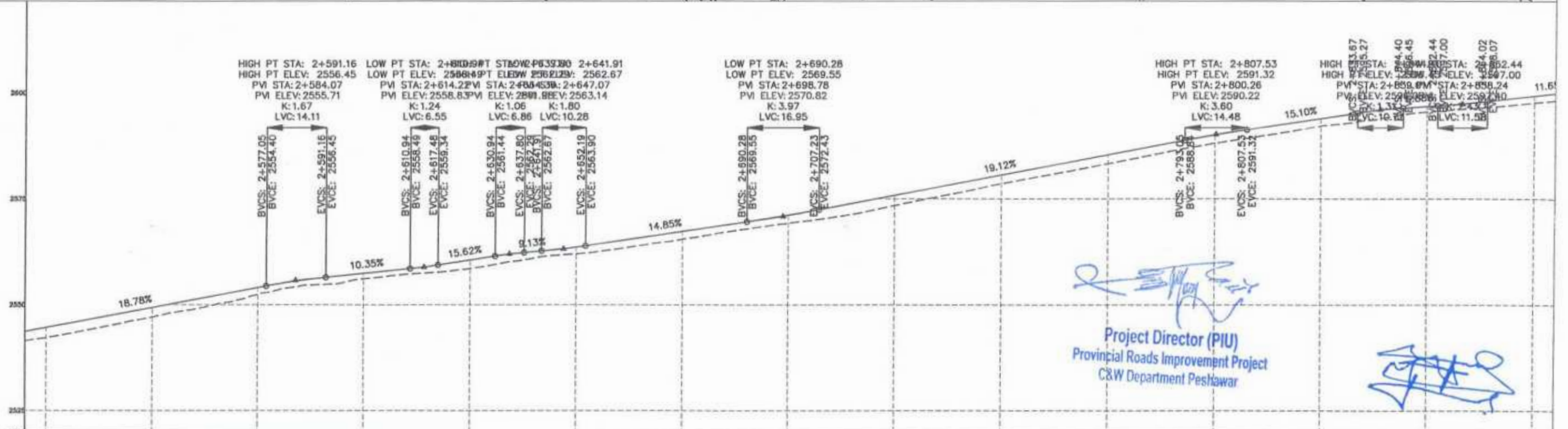
F.R.L	2456.663-2466.127	2462.321-2463.866	2465.003-2466.299	2466.157-2466.748	2467.136-2468.560	2470.829-2472.804	2475.300-2476.816	2478.668-2479.715	2481.920-2482.538	2484.319-2484.834	2485.968-2486.806	2489.253-2490.679	2492.896-2494.602	2496.036-2497.471	2499.791-2501.933
N.S.L															
STATION	1+800	1+825	1+850	1+875	1+900	1+925	1+950	1+975	2+000	2+025	2+050	2+075	2+100	2+125	2+150

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE:	H=1:1000 V=1:1000	SHEET CONTENT: PLAN & PROFILE 1+800.00 - 2+160.00
		a			DRAWN	IFTIKHAR ABBAS			DATE:	AUG. 2024.	
		b			CHECKED	S.DURRANI			CEC/KP-RRDP/HWN-SWT-T4/PP/		
		c			APPROVED	AQEEL YOUNIS			6		









*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar

*[Signature]*

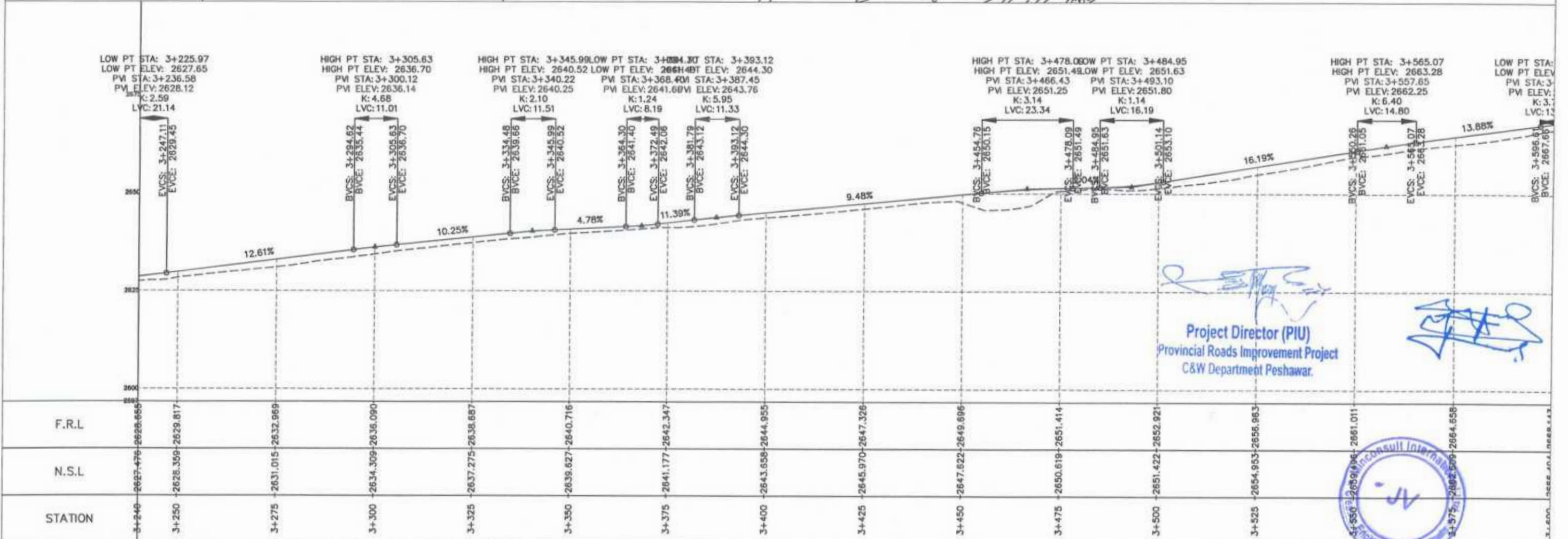
F.R.L	2+520 - 2541.506 - 2543.660	2+525 - 2542.214 - 2544.619	2+550 - 2547.052 - 2549.315	2+575 - 2552.389 - 2554.010	2+600 - 2556.106 - 2557.362	2+625 - 2558.510 - 2560.517	2+650 - 2561.994 - 2563.568	2+675 - 2565.424 - 2567.286	2+700 - 2568.202 - 2571.117	2+725 - 2573.405 - 2575.831	2+750 - 2578.534 - 2580.612	2+775 - 2583.285 - 2585.392	2+800 - 2588.118 - 2590.106	2+825 - 2592.140 - 2593.959	2+850 - 2595.520 - 2596.832	2+875 - 2597.724 - 2599.351
N.S.L																
STATION	2+520	2+525	2+550	2+575	2+600	2+625	2+650	2+675	2+700	2+725	2+750	2+775	2+800	2+825	2+850	2+875

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Fender Drawings.	G. DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000	PLAN & PROFILE 2+520.00 - 2+880.00
		1			DRAWN	IFTIKHAR ABBAS			V=1:1000	
		2			CHECKED	S.DURRANI			DATE:	
		3			APPROVED	AQEEL YOUNIS			AUG, 2024	
					CEC/KP-RRDP/IN-SWT-T4/PP/ 8					



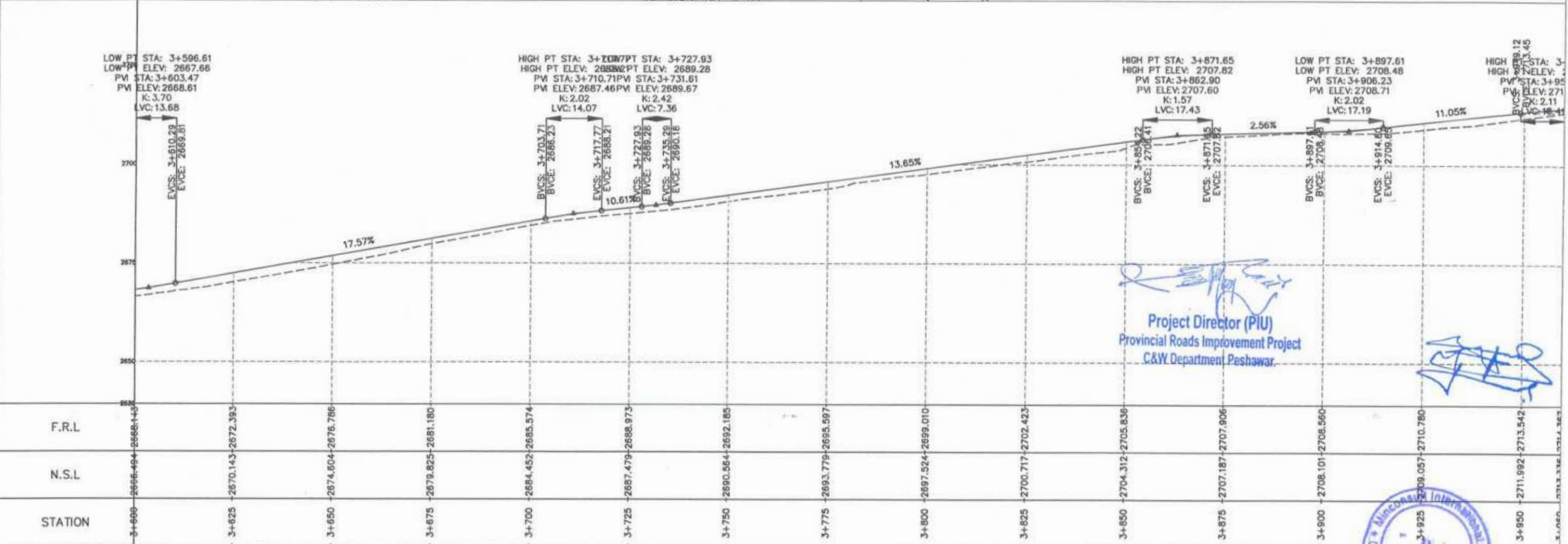
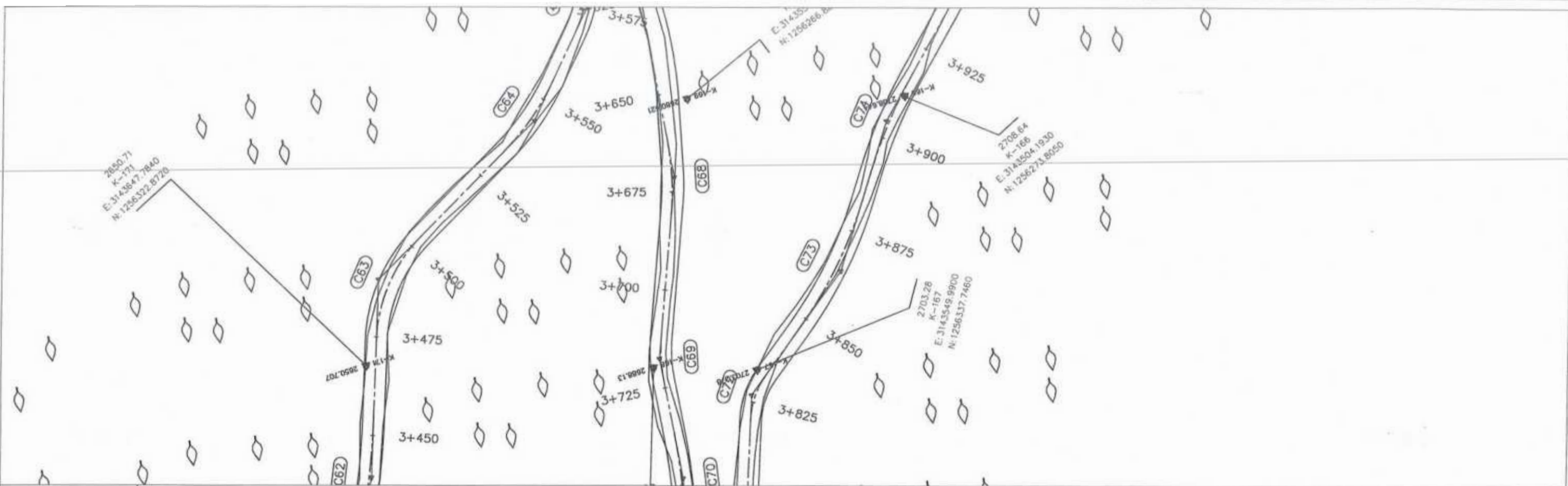






CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	Tender Drawings.	G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE:	PLAN & PROFILE 3+240.00 - 3+600.00
		a			DRAWN: IFTIKHAR ABBAS				
		b			CHECKED: S. DURRANI				
		c			APPROVED: AQEEL YOUNIS				
									AUG, 2024 CEC/KP-RRDP/WH-N-SWT-T4/PP/ 10









  
 Project Director (PIU)  
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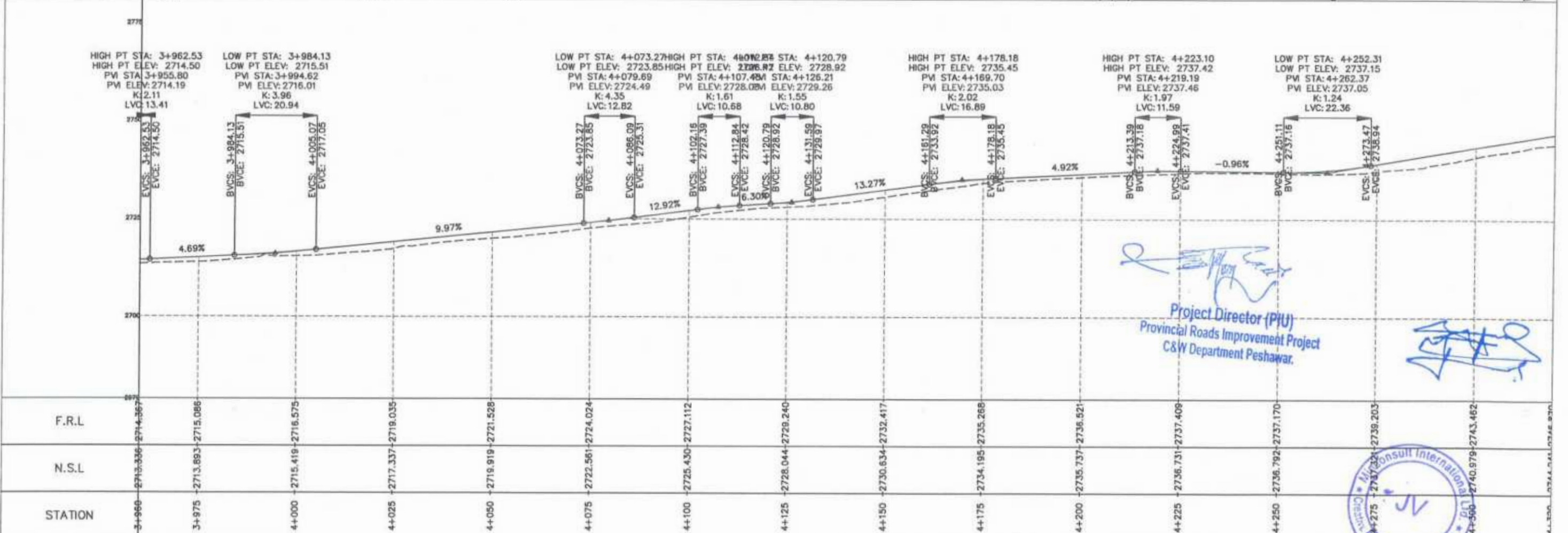
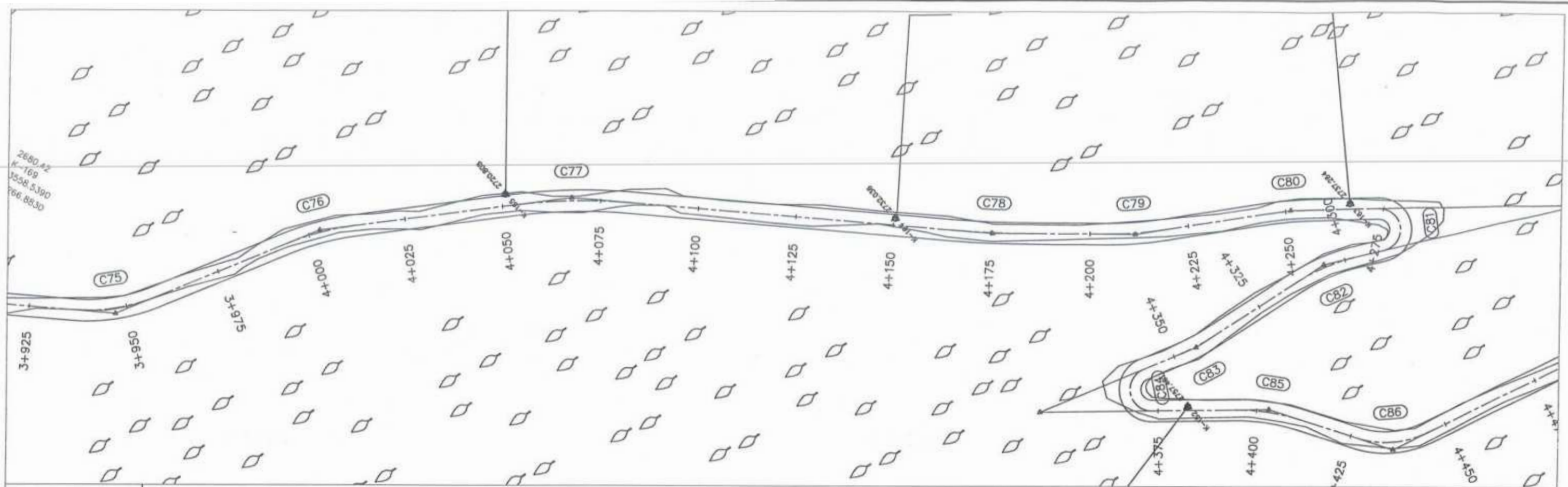


STATION	F.R.L	N.S.L
3+600	2666.49	2666.14
3+625	2670.14	2672.39
3+650	2674.60	2676.76
3+675	2679.82	2681.18
3+700	2684.45	2685.57
3+725	2687.47	2688.97
3+750	2690.56	2692.18
3+775	2693.77	2695.59
3+800	2697.52	2699.01
3+825	2700.71	2702.42
3+850	2704.31	2705.83
3+875	2707.18	2707.90
3+900	2708.10	2708.56
3+925	2709.05	2710.78
3+950	2711.99	2713.54




CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)  TOURISM ROADS	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  SCALE: H=1:1000 V=1:1000 DATE: AUG, 2024.	 PLAN & PROFILE 3+800.00 - 3+960.00
		e			DRAWN	IFTIKHAR ABBAS			
		b			CHECKED	S.DURRANI			
		c			APPROVED	AQEEL YOUNIS			



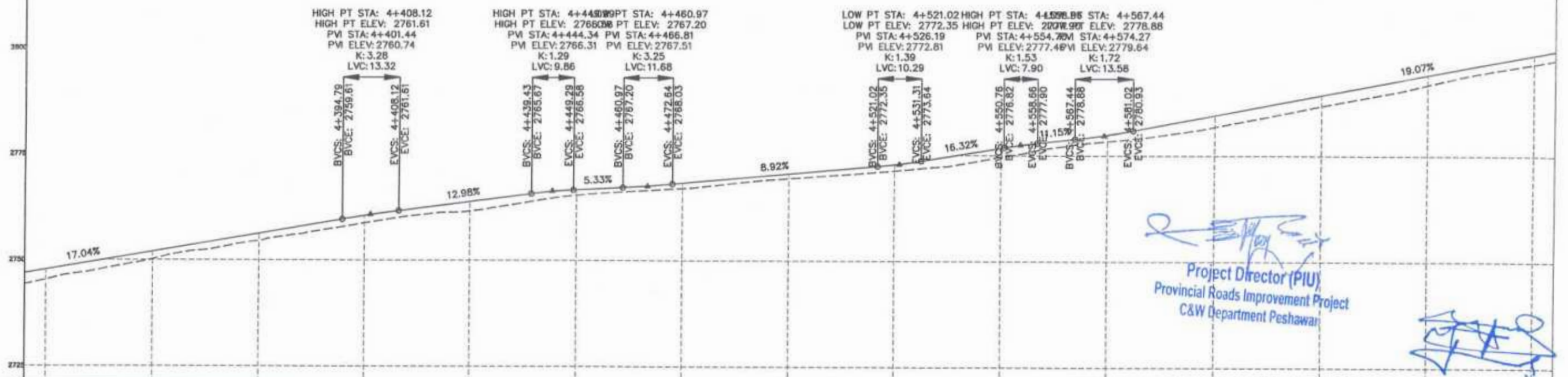
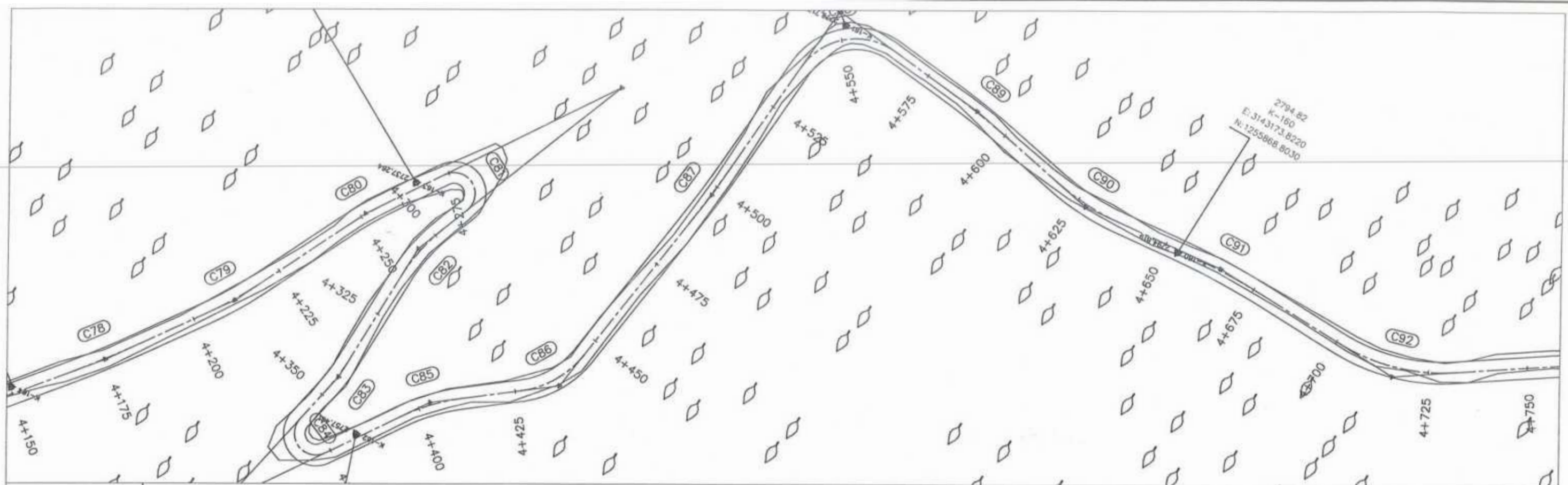


  
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 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG,2024	Tender Drawings.	G. DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	DATE:	PLAN & PROFILE 3+960.00 - 4+320.00
		a			DRAWN	IFTIKHAR ABBAS					
		b			CHECKED	S.DURRANI					
c			APPROVED	AQEEL YOUNIS							
						TOURISM ROADS		AUG, 2024	CEC/KP-RRDP/HWN-SWT-T4/PP/	12	



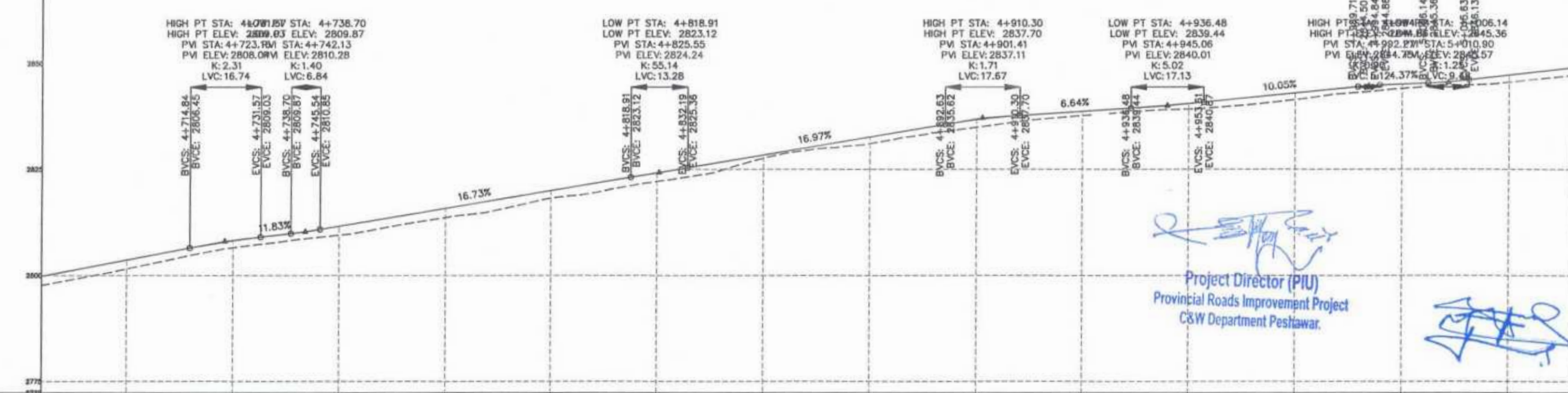
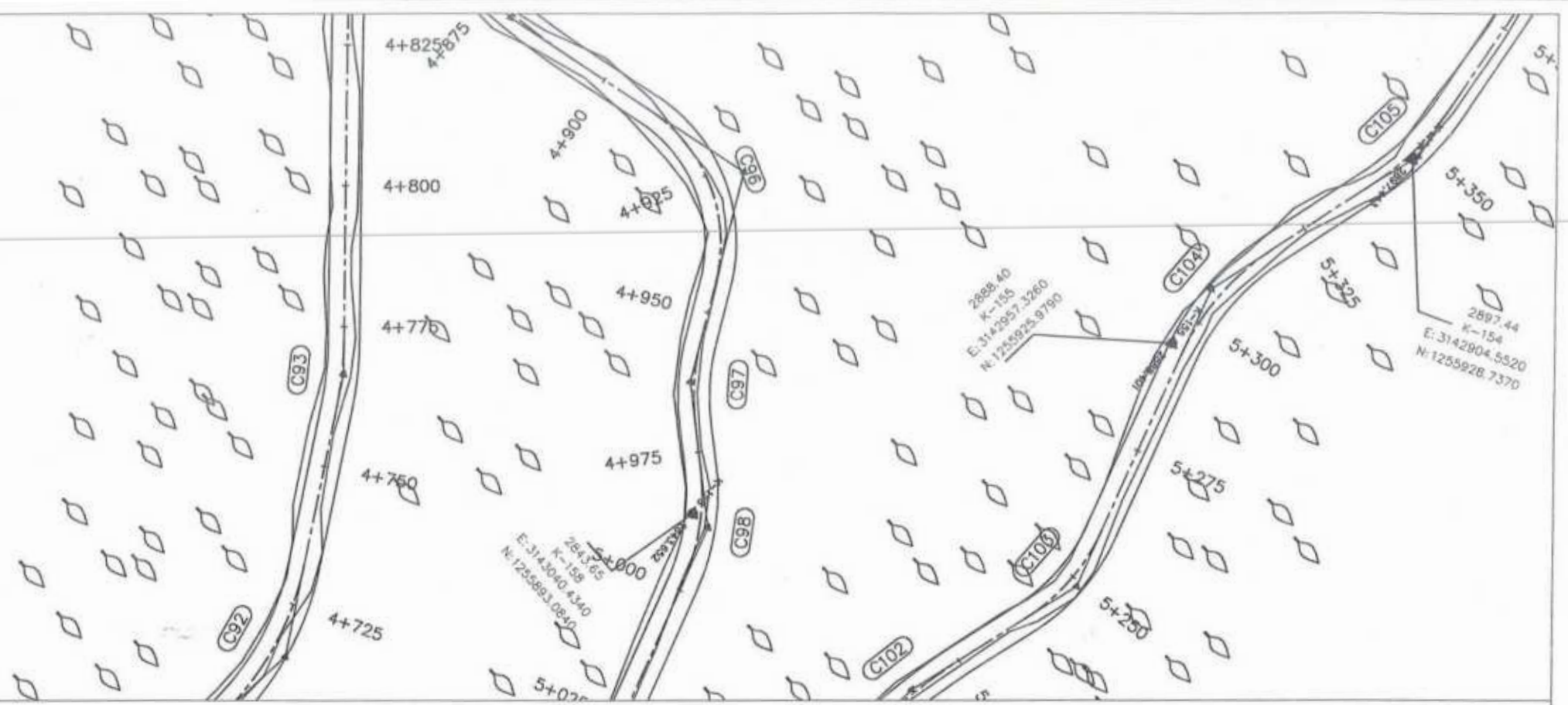


*[Signature]*  
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 Provincial Roads Improvement Project  
 C&W Department Peshawar

F.R.L	4+320 2744.241	4+325 2745.347	4+350 2750.189	4+375 2754.571	4+400 2758.723	4+425 2761.553	4+450 2765.314	4+475 2768.968	4+500 2769.379	4+525 2771.269	4+550 2774.562	4+575 2778.336	4+600 2781.820	4+625 2786.741	4+650 2791.765	4+675 2796.746	4+700 2800.806
N.S.L	2744.241	2745.347	2750.189	2754.571	2758.723	2761.553	2765.314	2768.968	2769.379	2771.269	2774.562	2778.336	2781.820	2786.741	2791.765	2796.746	2800.806
STATION	4+320	4+325	4+350	4+375	4+400	4+425	4+450	4+475	4+500	4+525	4+550	4+575	4+600	4+625	4+650	4+675	4+700

CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 SHEET CONTENT: PLAN & PROFILE 4+320.00 - 4+680.00 DATE: AUG, 2024 CEC/KP-RRDP/WN-SWT-T4/PII 13
		a			DRAWN	IFTIKHAR ABBAS		
		b			CHECKED	S.DURRANI		
		c			APPROVED	AQEEL YOUNIS		





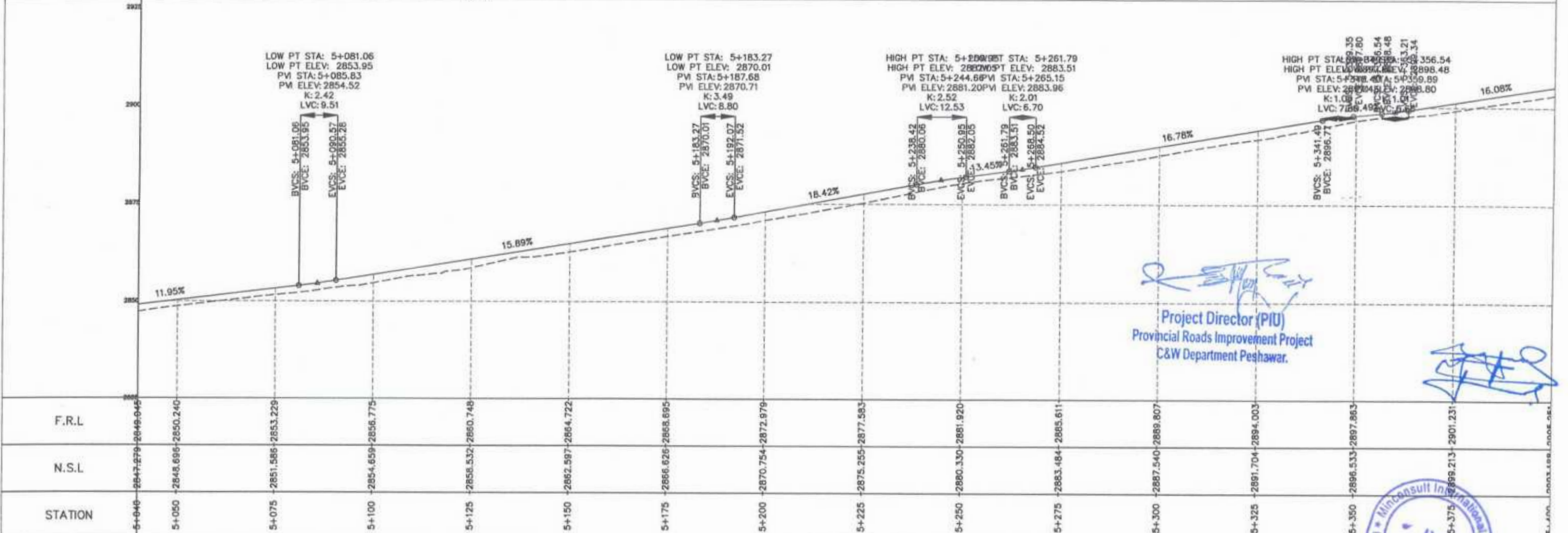
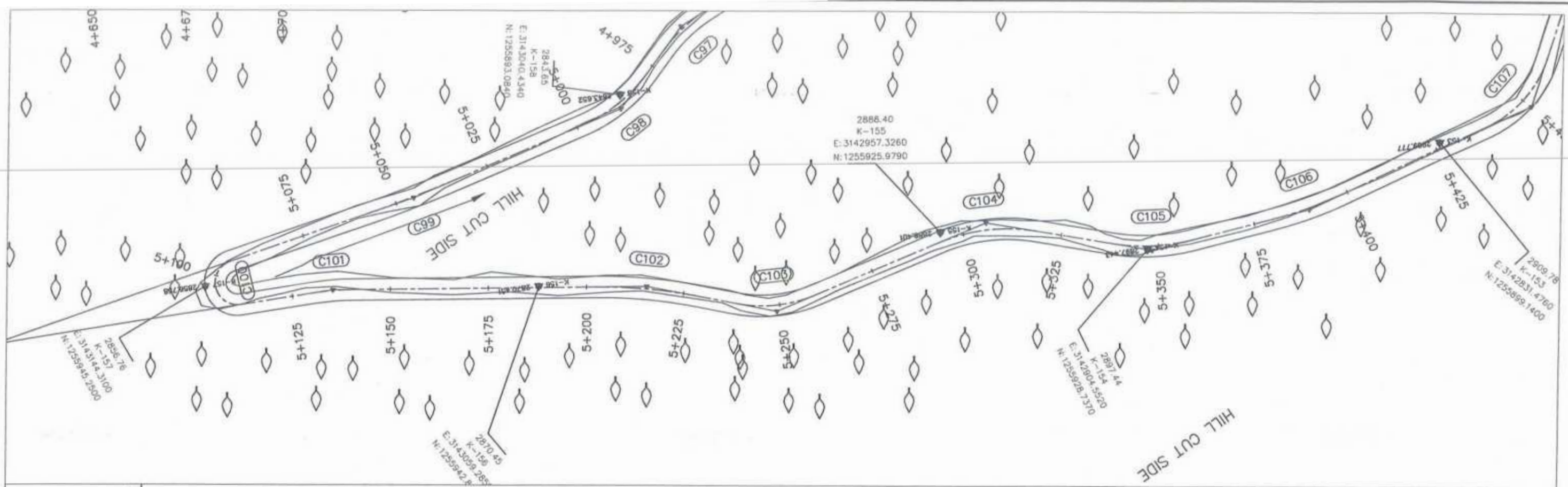
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

F.R.L	2797.667	2801.528	2803.619	2806.161	2808.161	2811.596	2815.779	2819.961	2824.147	2828.385	2832.628	2836.710	2838.676	2840.517	2843.017	2845.090	2847.252	2849.414
N.S.L	2797.667	2801.528	2803.619	2806.161	2808.161	2811.596	2815.779	2819.961	2824.147	2828.385	2832.628	2836.710	2838.676	2840.517	2843.017	2845.090	2847.252	2849.414
STATION	4+680	4+700	4+725	4+750	4+775	4+800	4+825	4+850	4+875	4+900	4+925	4+950	4+975	5+000	5+025	5+040		





CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G. DESIGNED	S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 4+680.00 - 5+040.00	
					DRAWN	IFTIKHAR ABBAS				DATE:
					CHECKED	S. DURRANI				AUG, 2024.
					APPROVED	AQEEL YOUNIS				CEC/KP-RRDP/HWN-SWT-T4/PP/



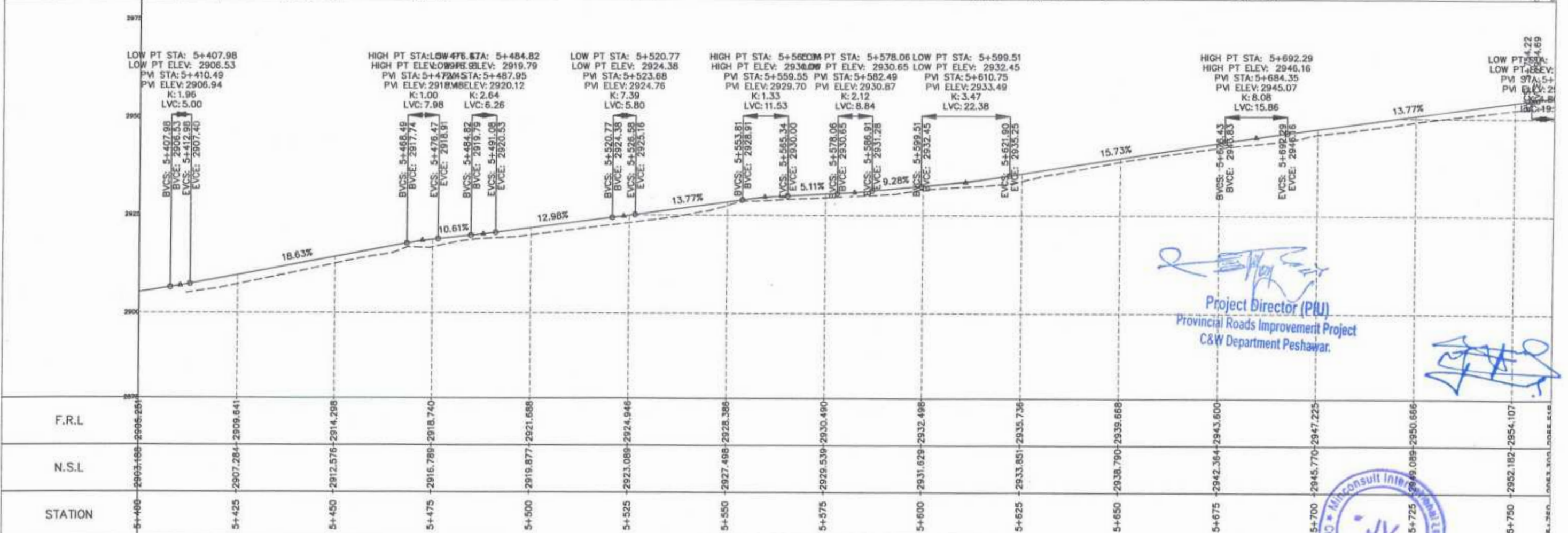
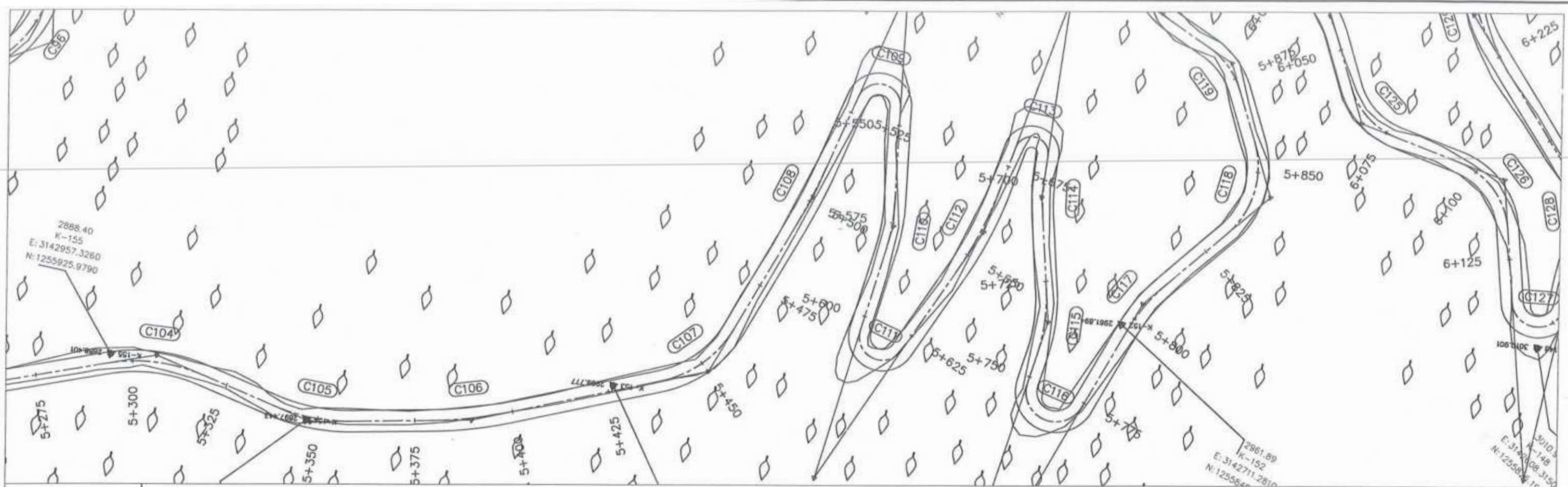




  
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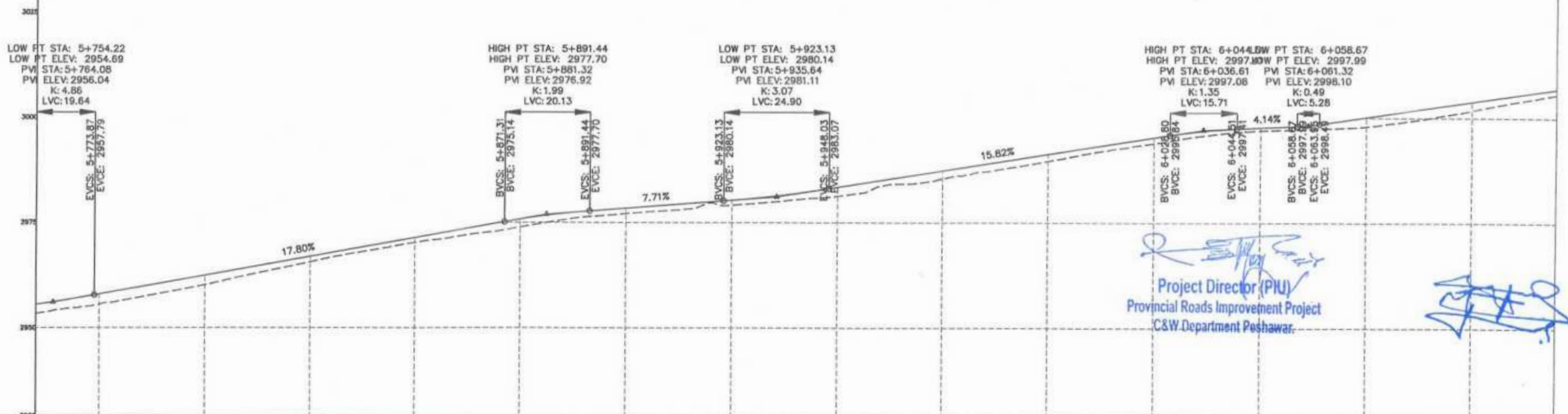
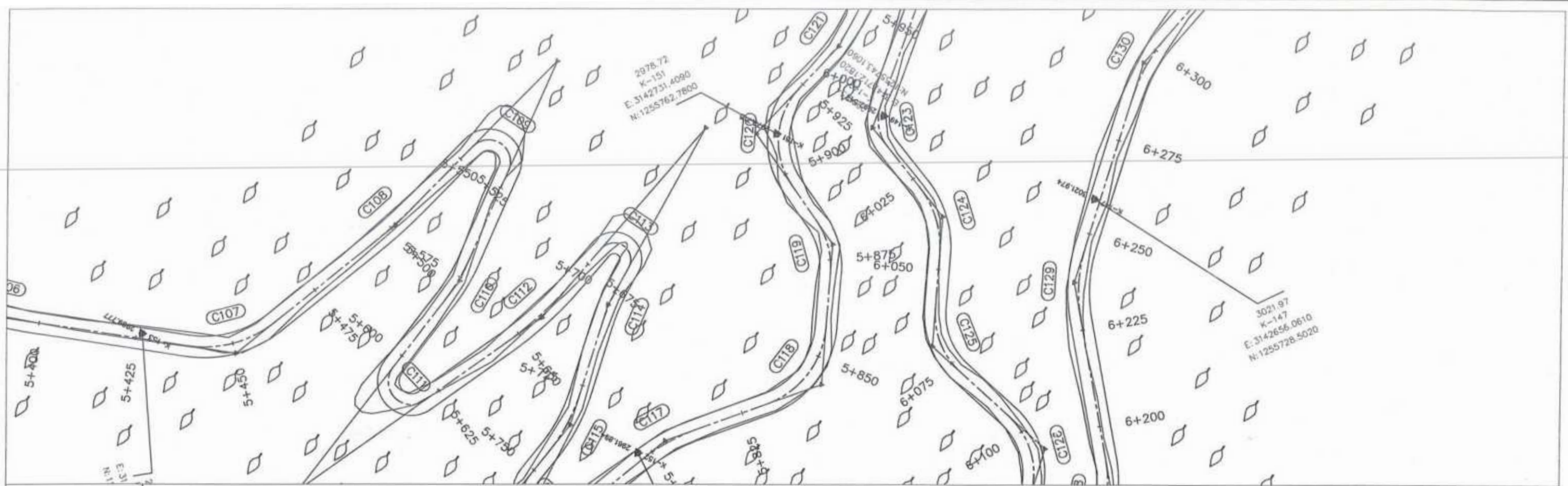
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 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	Tender Drawings.	G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	 PLAN & PROFILE 5+040.00 - 5+400.00	
		a			DRAWN: IFTIKHAR ABBAS					DATE:
		b			CHECKED: S. DURRANI					AUG, 2024
		c			APPROVED: AQEEL YOUNIS					CEC/KP-RRDP/HWIN-SWT-T4/PP/ 15









CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	a	AUG, 2024	Tender Drawings.	G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG, 2024.	PLAN & PROFILE 5+400.00 - 5+760.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 16
		b			CHECKED: S. DURRANI				
		c			APPROVED: AQEEL YOUNIS				





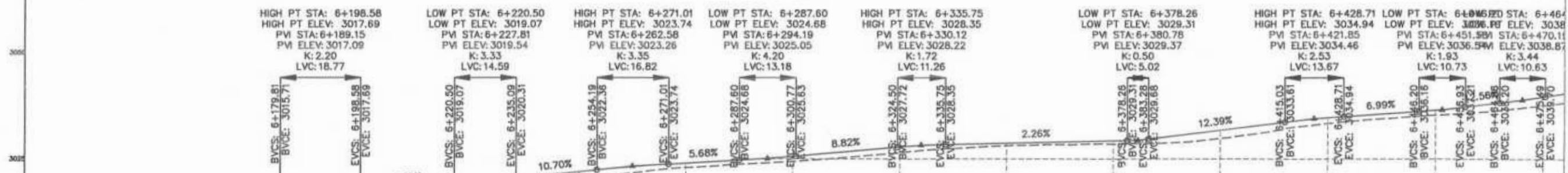
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	5+760 -2963.392-2965.518	5+775 -2965.534-2967.990	5+800 -2980.184-2982.441	5+825 -2965.596-2968.892	5+850 -2970.202-2971.343	5+875 -2973.879-2975.759	5+900 -2977.082-2978.359	5+925 -2979.063-2980.292	5+950 -2981.250-2983.378	5+975 -2985.446-2987.333	6+000 -2989.634-2991.288	6+025 -2993.863-2995.242	6+050 -2996.928-2997.633	6+075 -2997.946-3000.134	6+100 -3001.790-3003.849
N.S.L															
STATION	5+760	5+775	5+800	5+825	5+850	5+875	5+900	5+925	5+950	5+975	6+000	6+025	6+050	6+075	6+100

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		d	AUG.2024	Tender Drawings.	G. DESIGNED S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG, 2024.	PLAN & PROFILE 5+760.00 - 6+120.00
		a			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S. DURRANI				
c			APPROVED AQEEL YOUNIS						
									

S. L. 1001, TORONTO, CANADA



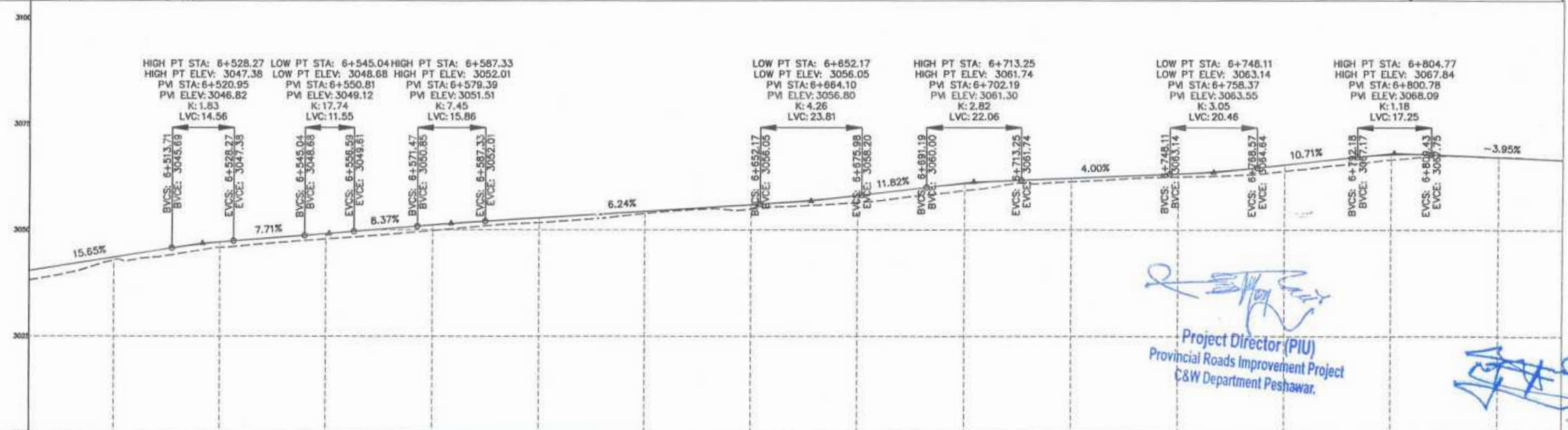
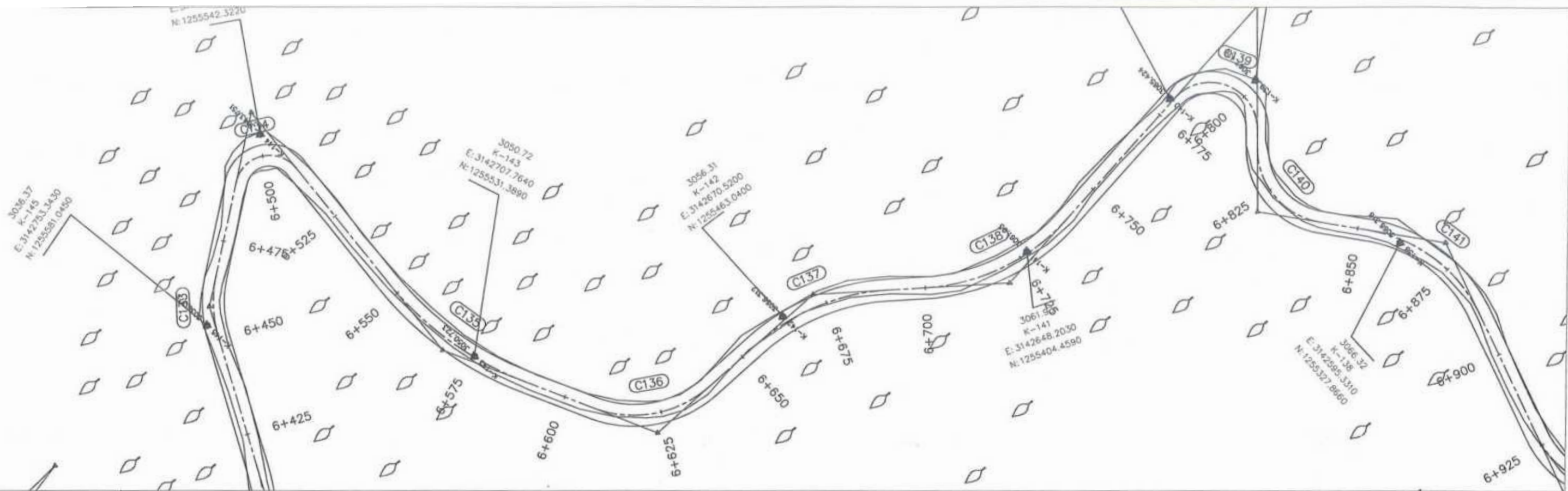


*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

STATION	N.S.L	F.R.L
6+125	3006.350	3007.563
6+150	3010.013	3011.278
6+175	3013.634	3014.992
6+200	3016.741	3017.780
6+225	3018.205	3019.389
6+250	3020.284	3021.910
6+275	3022.941	3023.962
6+300	3024.364	3025.585
6+325	3026.424	3027.767
6+350	3028.074	3028.669
6+375	3028.463	3029.236
6+400	3029.810	3031.749
6+425	3033.324	3034.650
6+450	3035.791	3036.462
6+475	3037.587	3039.626

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0	DATE: AUG, 2024	DESCRIPTION: Tender Drawings	NAMES:	PROJECT:	ROAD NAME:	SCALE:		
		a			G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	TOURISM ROADS	H=1:1000 V=1:1000	
		b			DRAWN: IFTIKHAR ABBAS				DATE:	PLAN & PROFILE
		c			CHECKED: S. DURRANI				AUG, 2024	6+120.00 - 6+480.00
			APPROVED: AQEEL YOUNIS	CEC/KP-RRDP/HWIN-SWT-T4/PP/	18					





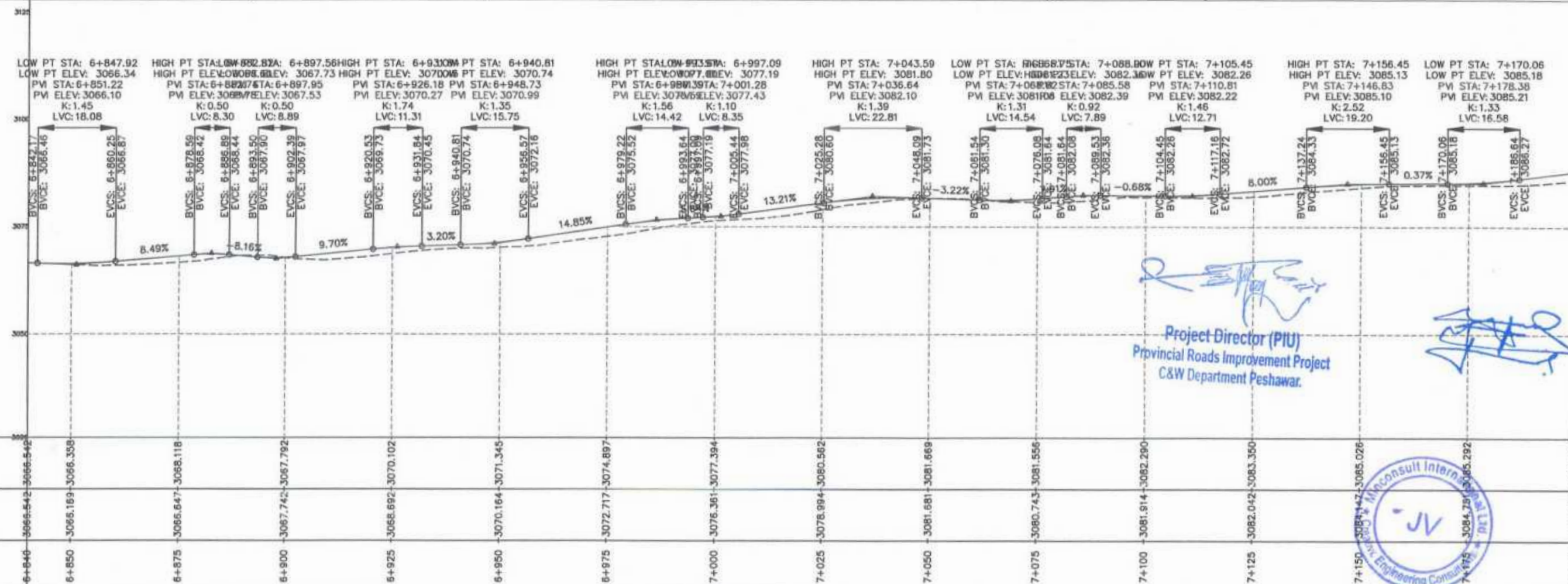
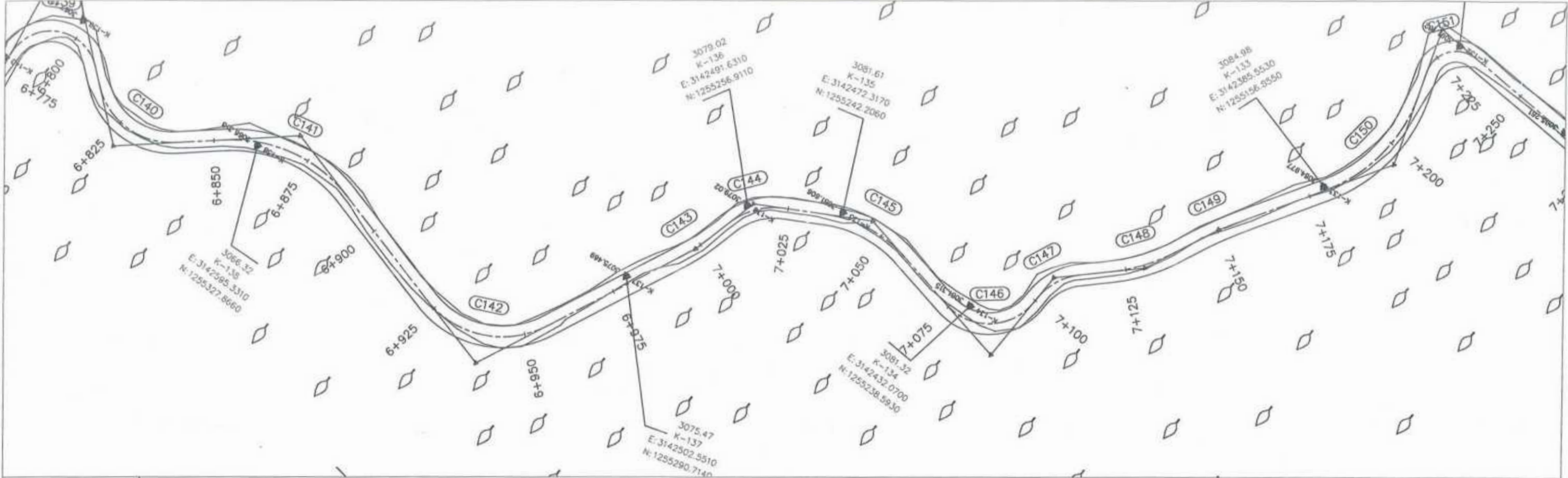
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	3038.213	3042.900	3043.539	3045.828	3047.103	3047.825	3049.067	3049.813	3051.138	3051.691	3052.799	3053.845	3054.358	3054.885	3055.918	3056.448	3058.087	3059.251	3060.902	3061.359	3062.212	3063.219	3063.495	3063.219	3063.852	3065.329	3066.516	3067.745	3067.182	3067.134
N.S.L	3038.213	3042.900	3043.539	3045.828	3047.103	3047.825	3049.067	3049.813	3051.138	3051.691	3052.799	3053.845	3054.358	3054.885	3055.918	3056.448	3058.087	3059.251	3060.902	3061.359	3062.212	3063.219	3063.495	3063.219	3063.852	3065.329	3066.516	3067.745	3067.182	3067.134
STATION	6+460	6+500	6+525	6+550	6+575	6+500	6+525	6+550	6+575	6+600	6+625	6+650	6+675	6+700	6+725	6+750	6+775	6+800	6+825											

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024.	SHEET COMMENT: PLAN & PROFILE 6+490.00 - 6+840.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YOUNIS				
		CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)								








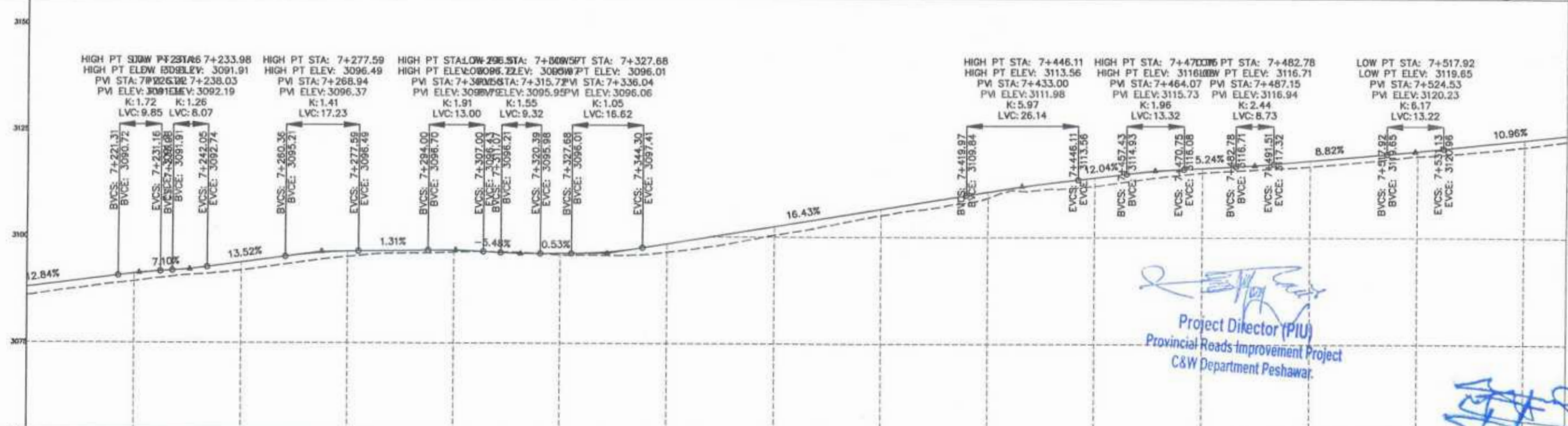
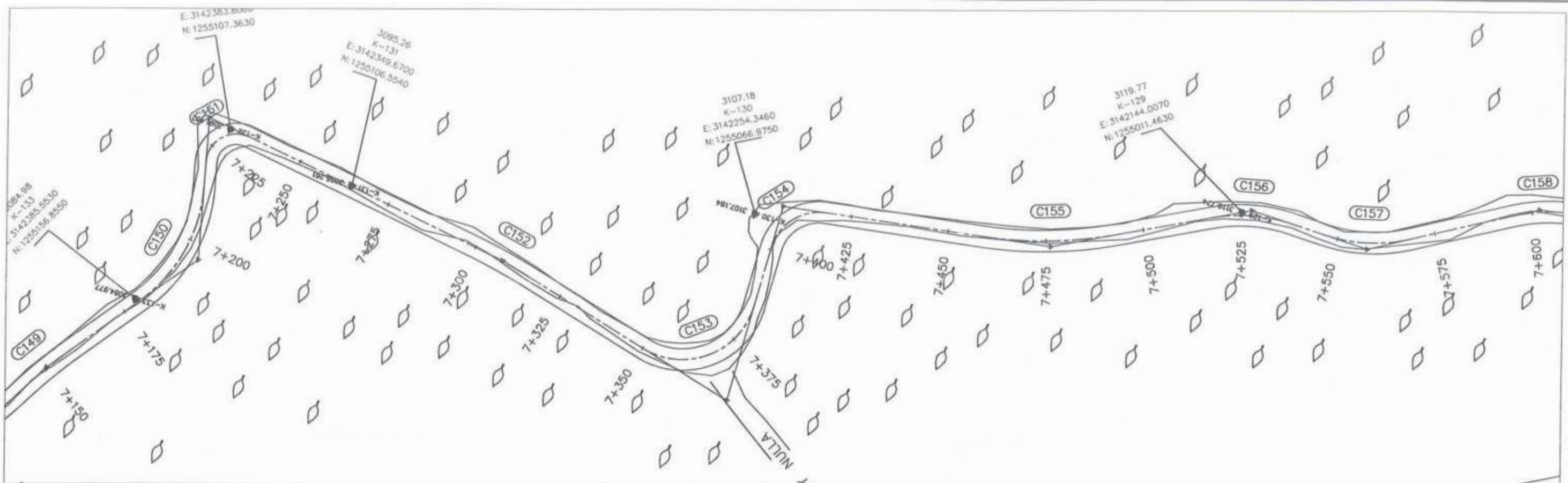


  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 6+840.00 - 7+200.00	
		a			DRAWN	IFTIKHAR ABBAS		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:
		b			CHECKED	S.DURRANI				AUG.
		c			APPROVED	AQEEL YOUNIS				2024.
									CEC/KP-RRDP/HWN-SWT-T4/PPV	20





Project Director (PIU)
   
 Provincial Roads Improvement Project
   
 C&W Department Peshawar.

F.R.L	3087.889	3091.158	3093.812	3096.428	3098.685	3098.000	3098.351	3102.457	3106.564	3109.648	3114.031	3116.299	3118.069	3120.315	3123.025	3124.451
N.S.L	3086.023	3089.349	3091.941	3095.187	3096.255	3095.643	3096.392	3100.443	3105.058	3109.226	3112.051	3115.230	3116.731	3118.84	3121.400	3122.744
STATION	7+200	7+225	7+250	7+275	7+300	7+325	7+350	7+375	7+400	7+425	7+450	7+475	7+500	7+525	7+550	

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 59835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024.	SHEET CONTENT: PLAN & PROFILE 7+200.00 - 7+560.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YOUNIS				

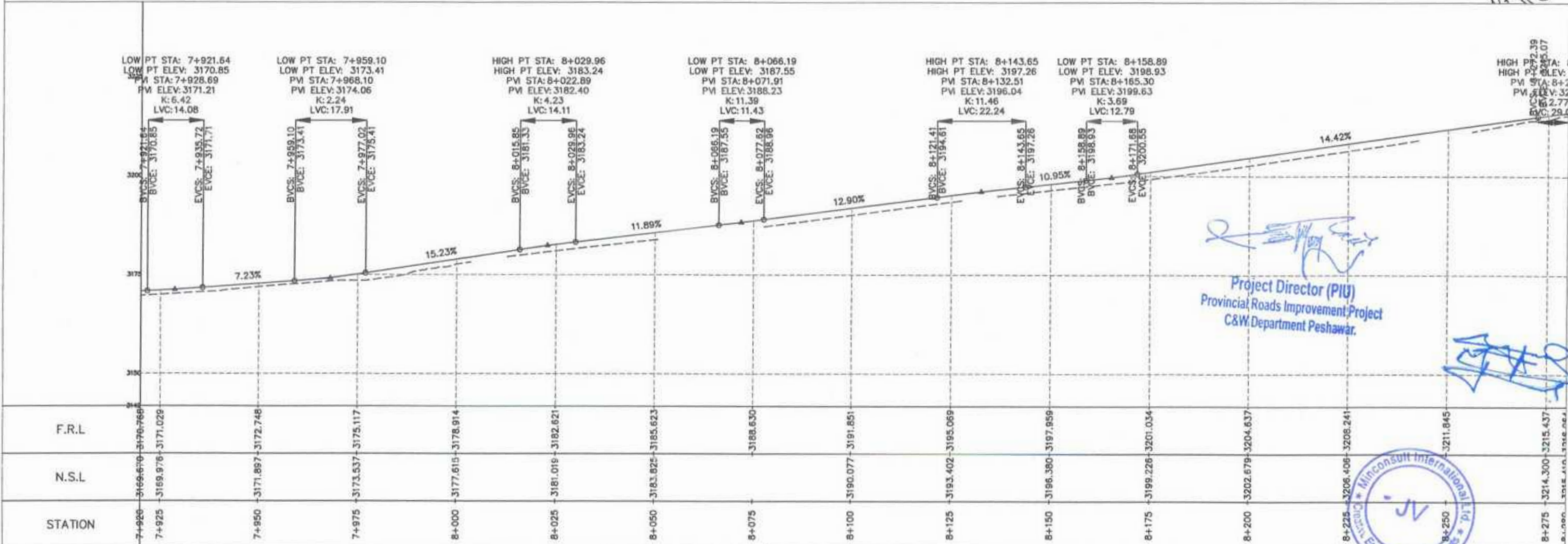
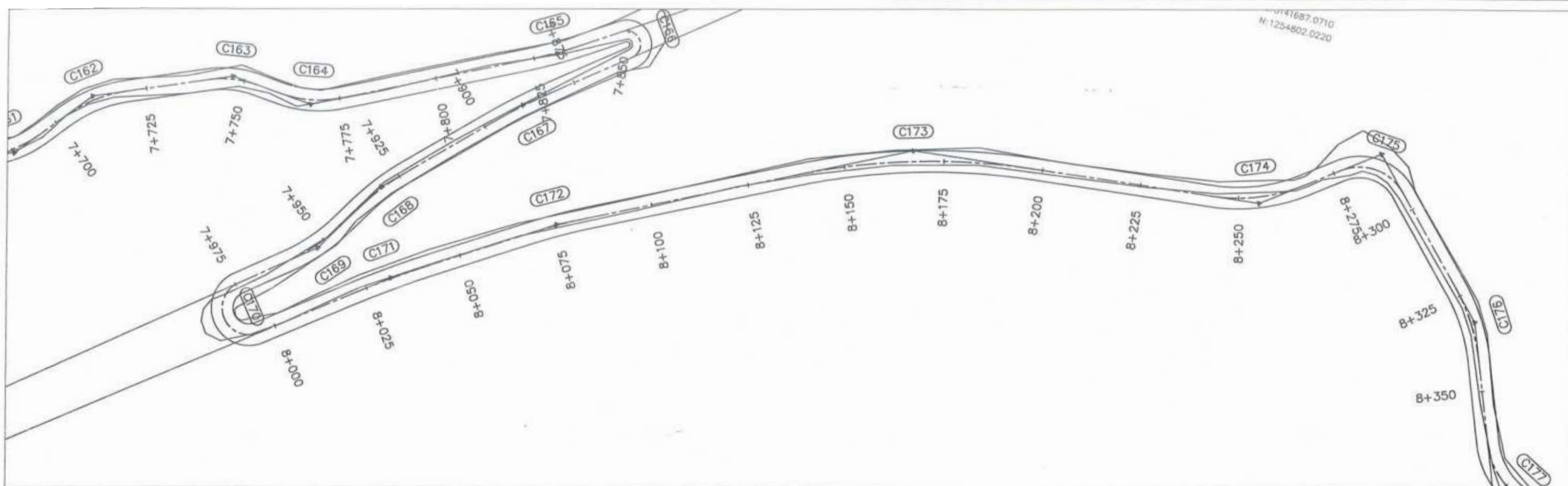








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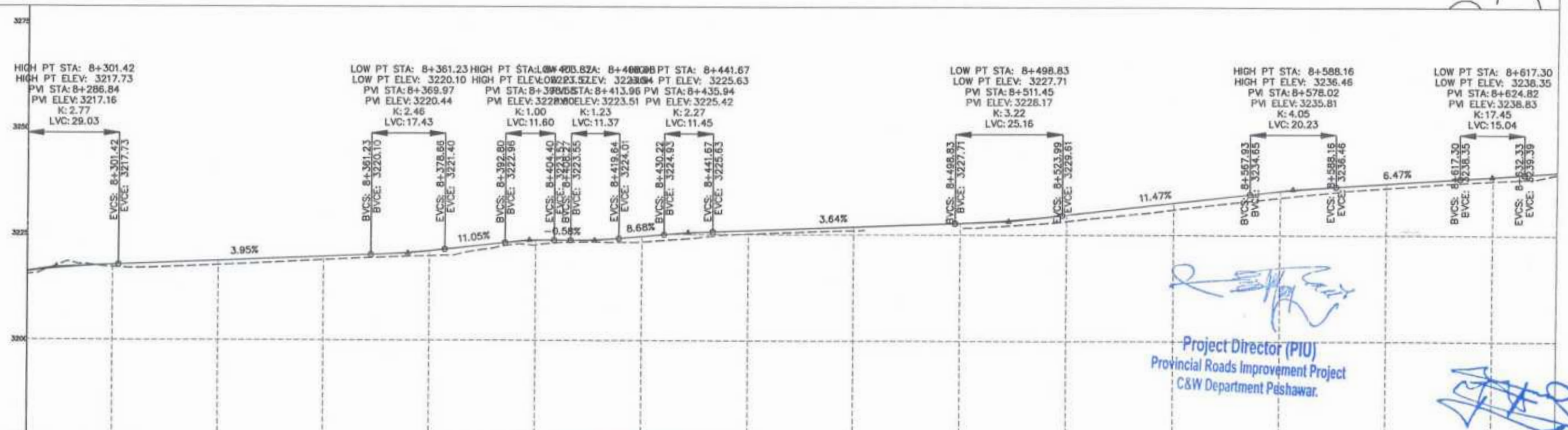
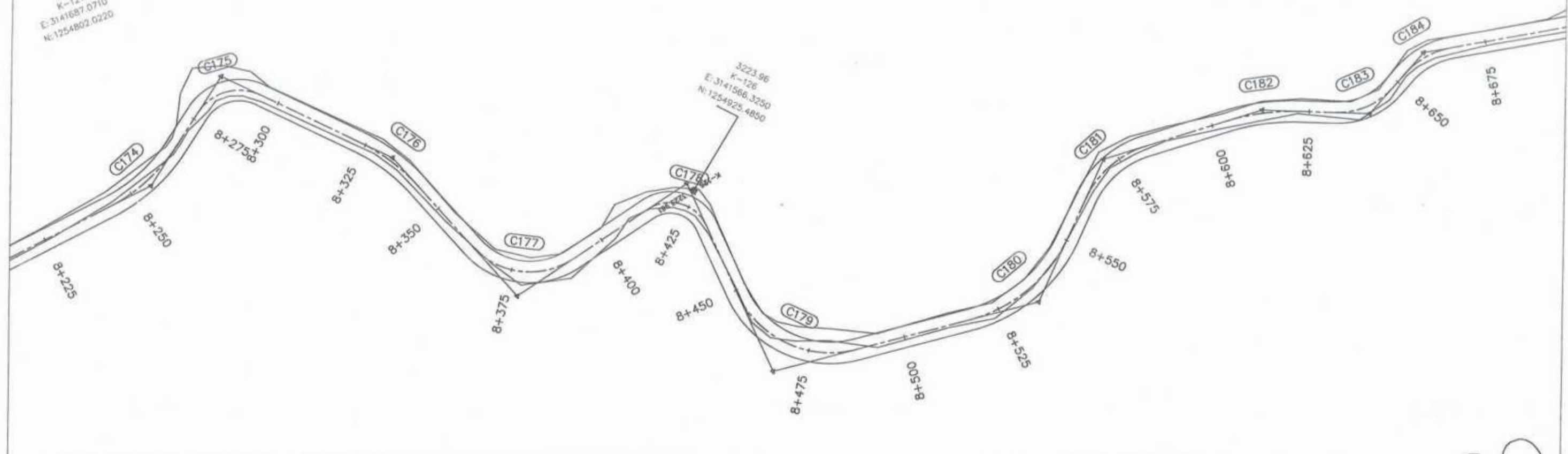
*[Signature]*  
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

*[Signature]*

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG.2024	Tender Drawings.	G.DESIGNED S. DURRANI	<p>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</p> <p>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP</p> <p>TOURISM ROADS</p>	<p>H=1:1000 V=1:1000</p> <p>DATE: AUG. 2024.</p>	<p>PLAN &amp; PROFILE 7+920.00 - 8+280.00</p>	
		a			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S.DURRANI				
		c			APPROVED AQEEL YOUNIS				
<p>CEC/KP-RRDP/HWIN-SWT-T4/PP/</p>								23	



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N: 1254802.0220



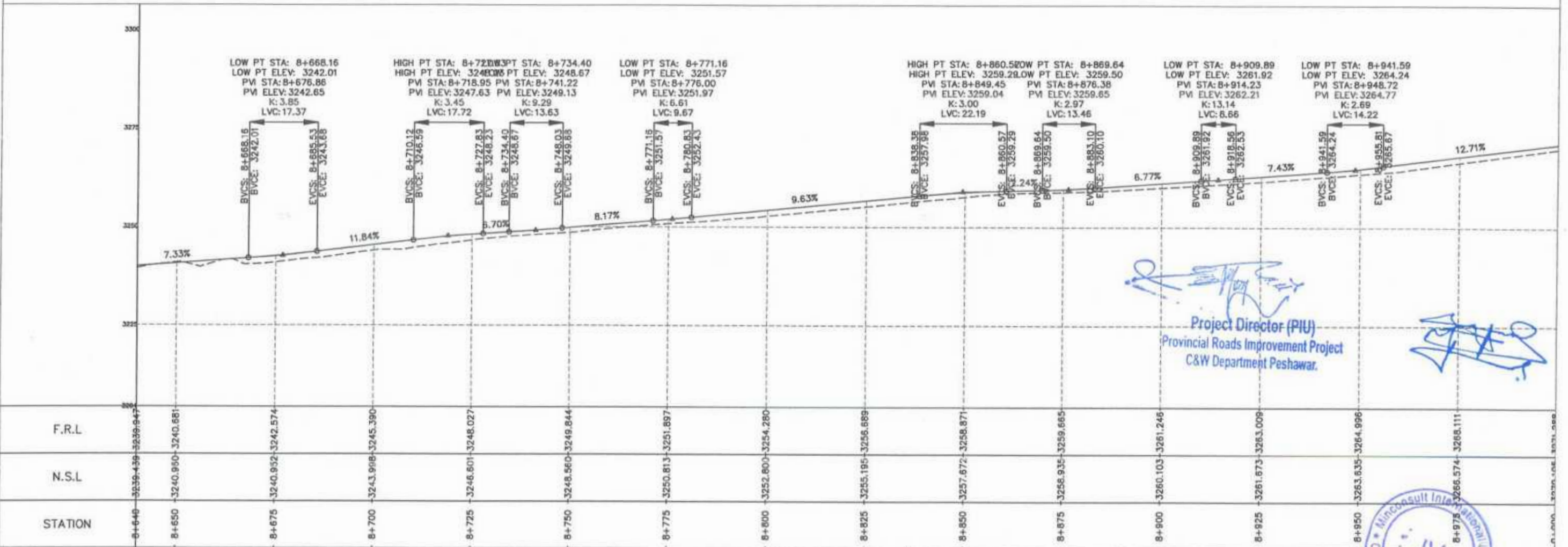
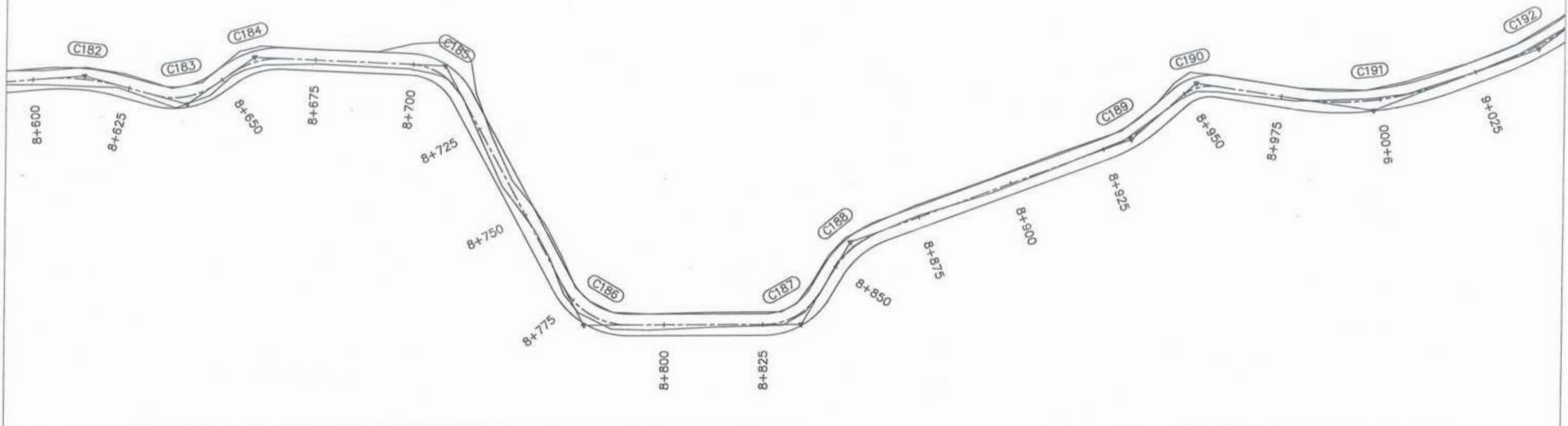
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Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

STATION	N.S.L	F.R.L
8+280	3215.49	3216.06
8+300	3217.14	3217.67
8+325	3217.65	3218.66
8+350	3218.67	3219.65
8+375	3219.66	3221.02
8+400	3222.43	3223.49
8+425	3223.15	3224.47
8+450	3225.10	3225.93
8+475	3225.94	3226.64
8+500	3227.75	3227.75
8+525	3228.23	3229.76
8+550	3231.00	3232.59
8+575	3233.68	3235.39
8+600	3236.17	3237.22
8+625	3237.88	3238.63
8+640	3238.43	3239.04

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV: 0	DATE: AUG, 2024	DESCRIPTION: Tender Drawings	NAMES: G. DESIGNED: S. DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000	SHEET CONTENT: PLAN & PROFILE 8+280.00 - 8+640.00
		a			DRAWN: IFTIKHAR ABBAS		DATE: AUG, 2024	
		b			CHECKED: S. DURRANI			
		c			APPROVED: AQEEL YOUNIS			



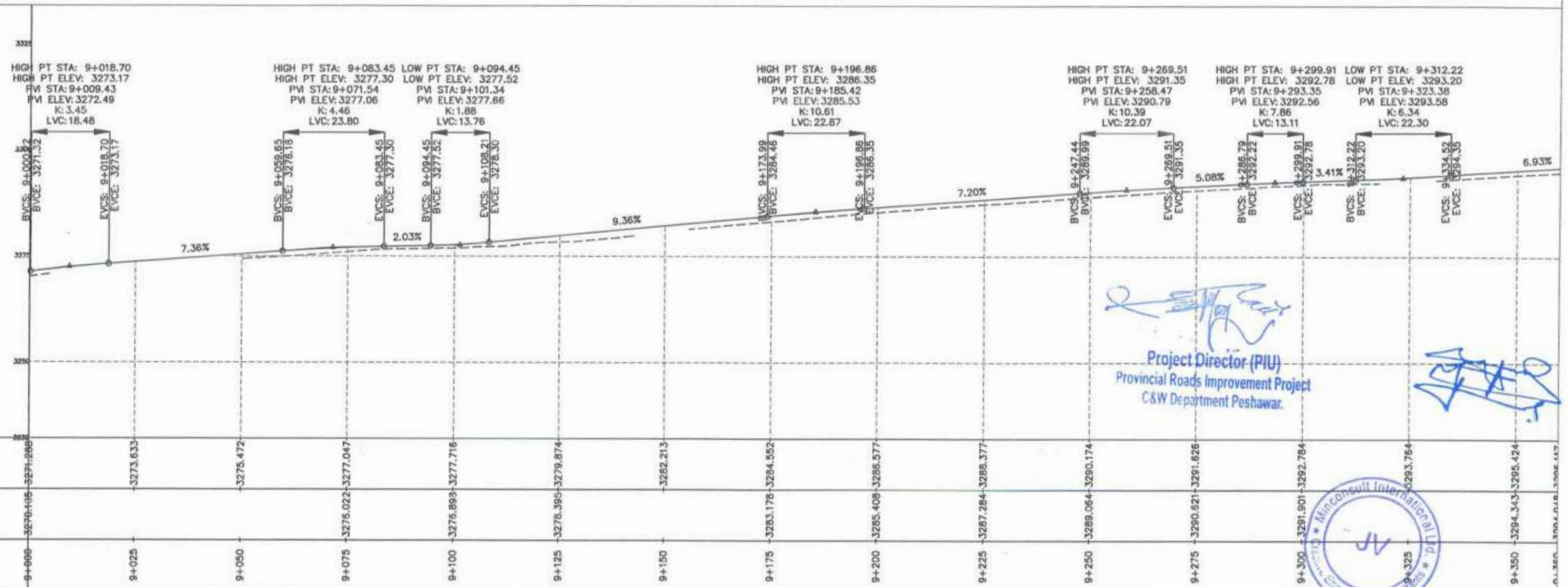
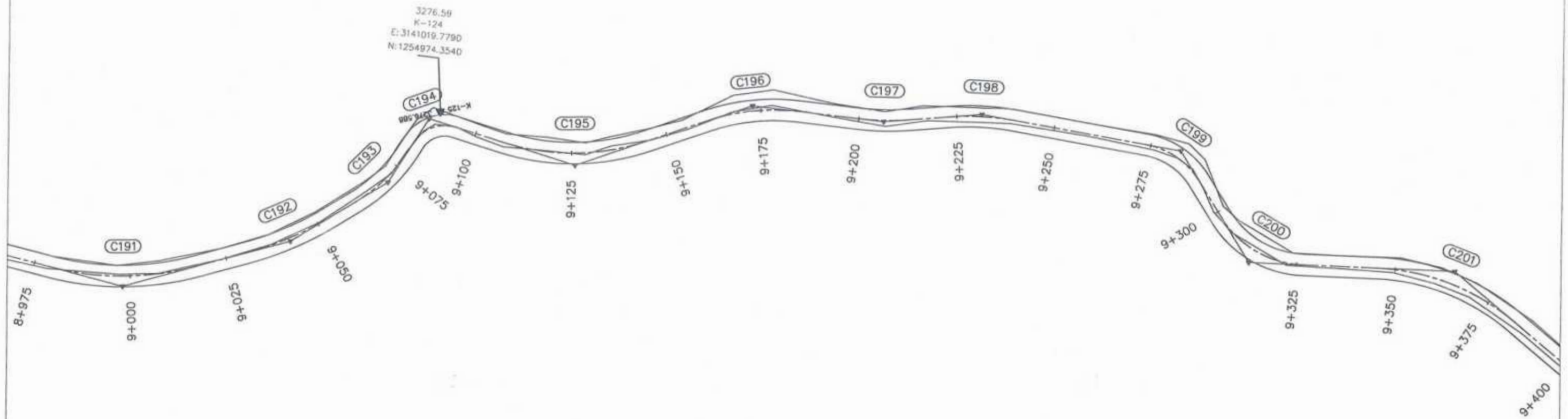




Project Director (PIU)
   
 Provincial Roads Improvement Project
   
 C&W Department Peshawar.

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000	 PLAN & PROFILE 8+640.00 - 9+000.00
		a			DRAWN	IFTIKHAR ABBAS			V=1:1000	
		b			CHECKED	S.DURRANI			DATE:	
c			APPROVED	AQEEL YOUNIS	AUG. 2024					
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA DESIGN CONSULTANT: (MIN - JV - CEC) PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP SCALE: H=1:1000, V=1:1000 DATE: AUG. 2024 SHEET CONTENT: PLAN & PROFILE 8+640.00 - 9+000.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 25										





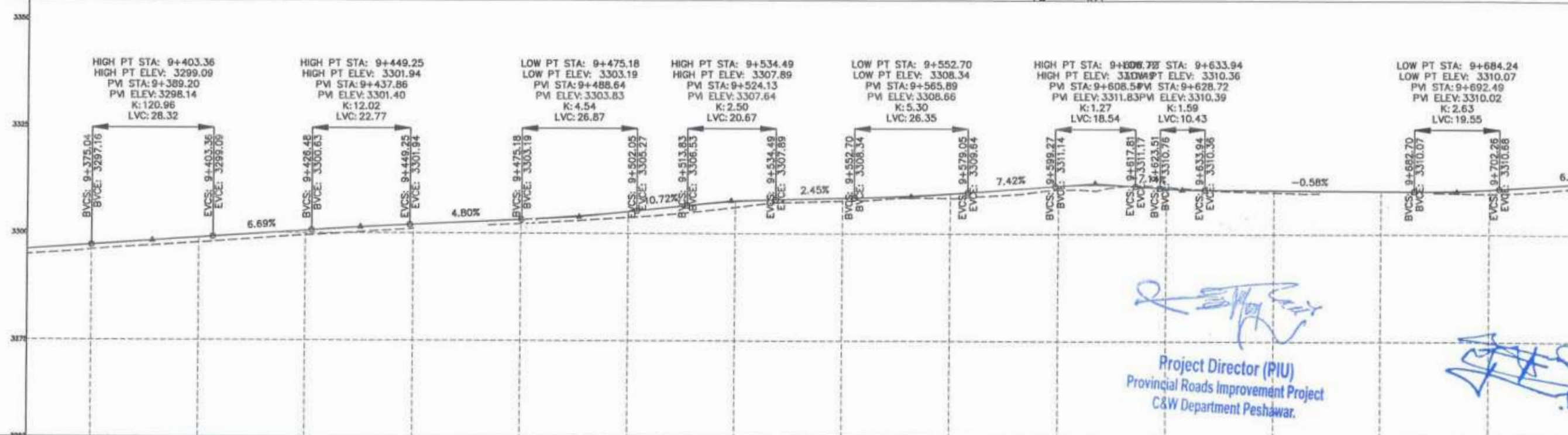
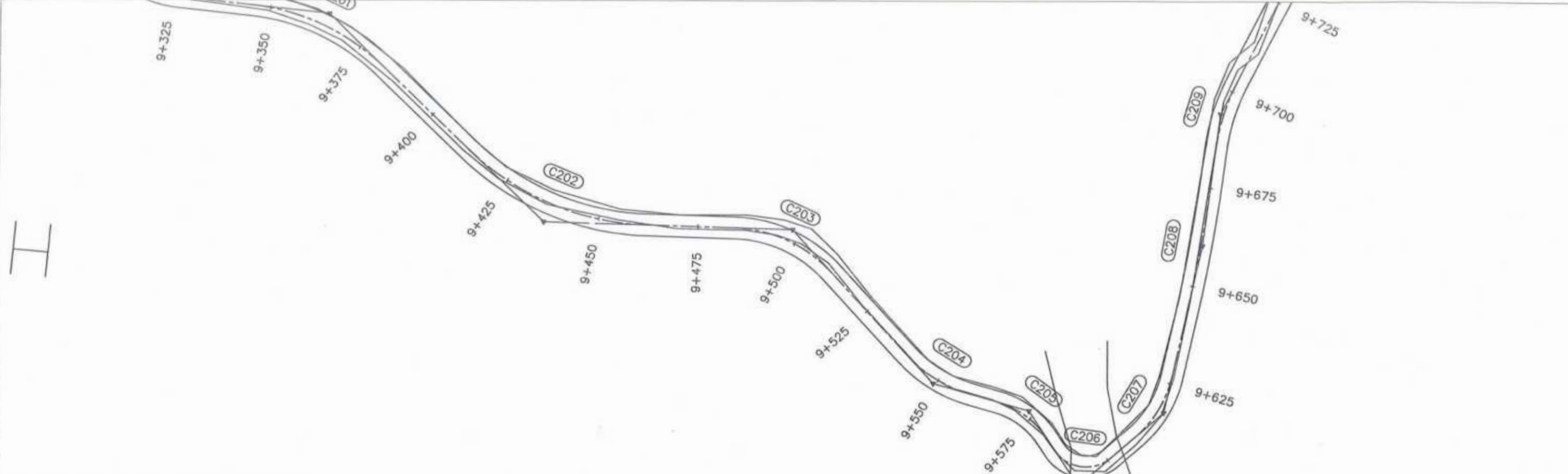
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET NO. / TOTAL SHEETS:	
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 9+000.00 - 9+360.00	
		a			DRAWN	IFTIKHAR ABBAS		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:
		b			CHECKED	S.DURRANI				AUG. 2024
		c			APPROVED	AQEEL YOUNIS				CEC/KP-RRDP/HWIN-SWT-T4/PP/



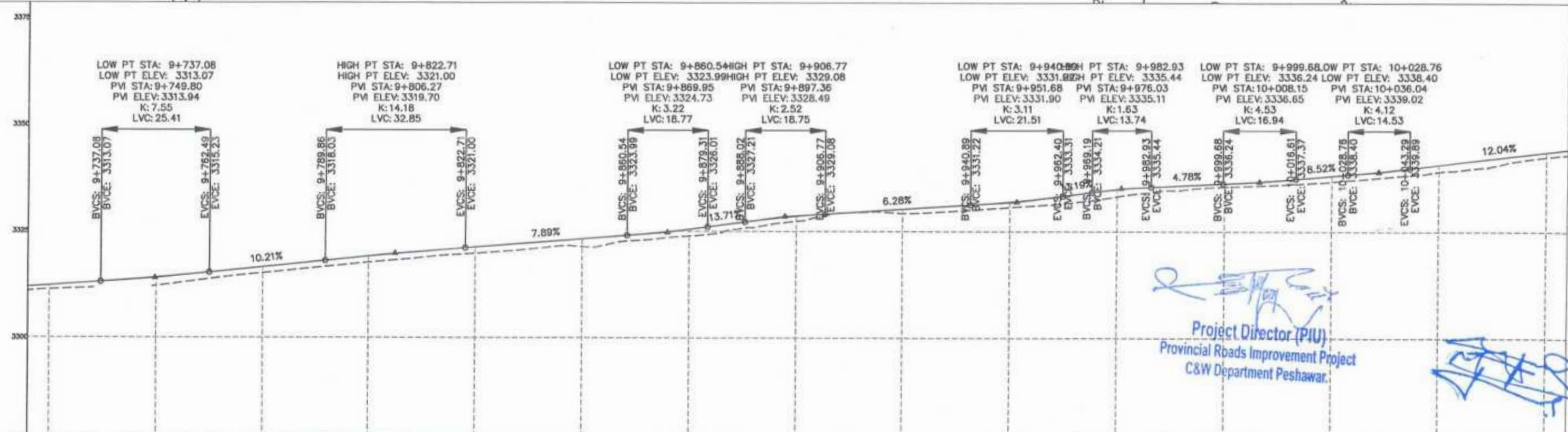
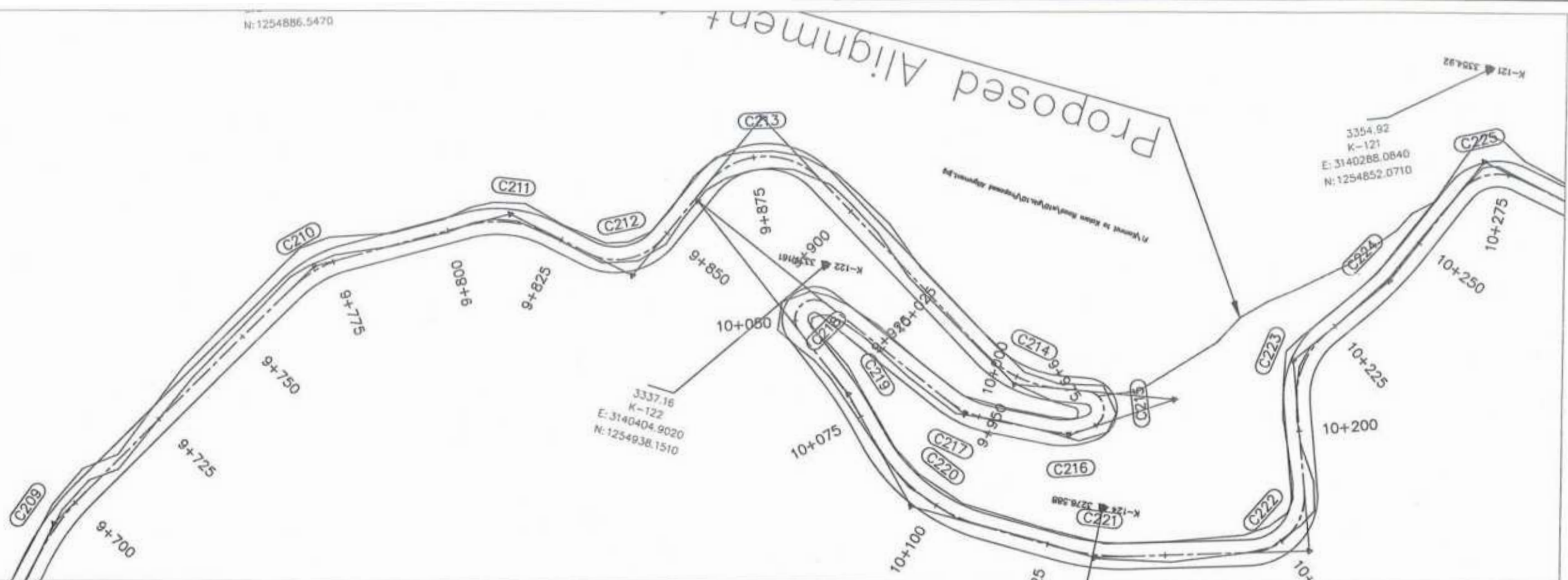


*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	3294.948	3296.117	3297.156	3298.862	3299.486	3300.536	3301.979	3303.178	3305.055	3307.480	3308.273	3309.355	3311.194	3310.660	3309.264	3310.118	3310.540	3310.800	
N.S.L	3294.948	3296.023	3297.713	3298.862	3299.486	3300.63	3301.979	3303.234	3305.055	3306.106	3307.480	3308.292	3310.311	3310.660	3309.756	3310.264	3310.118	3310.540	3310.800
STATION	9+360	9+375	9+400	9+425	9+450	9+475	9+500	9+525	9+550	9+575	9+600	9+625	9+650	9+675	9+700	9+720			

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT	ROAD NAME	SCALE	SHEET CONTENT
		0	AUG, 2024	Tender Drawings	G. DESIGNED	S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) TOURISM ROADS	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE 9+360.00 - 9+720.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S. DURRANI				
c			APPROVED	AQEEL YOUNIS						



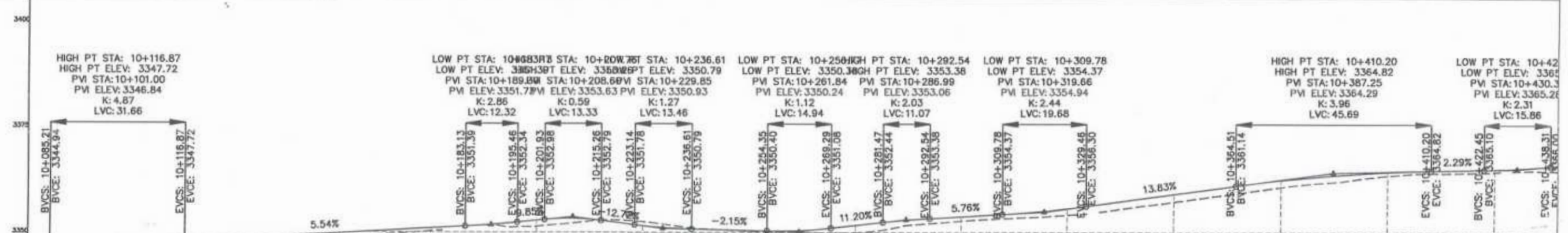
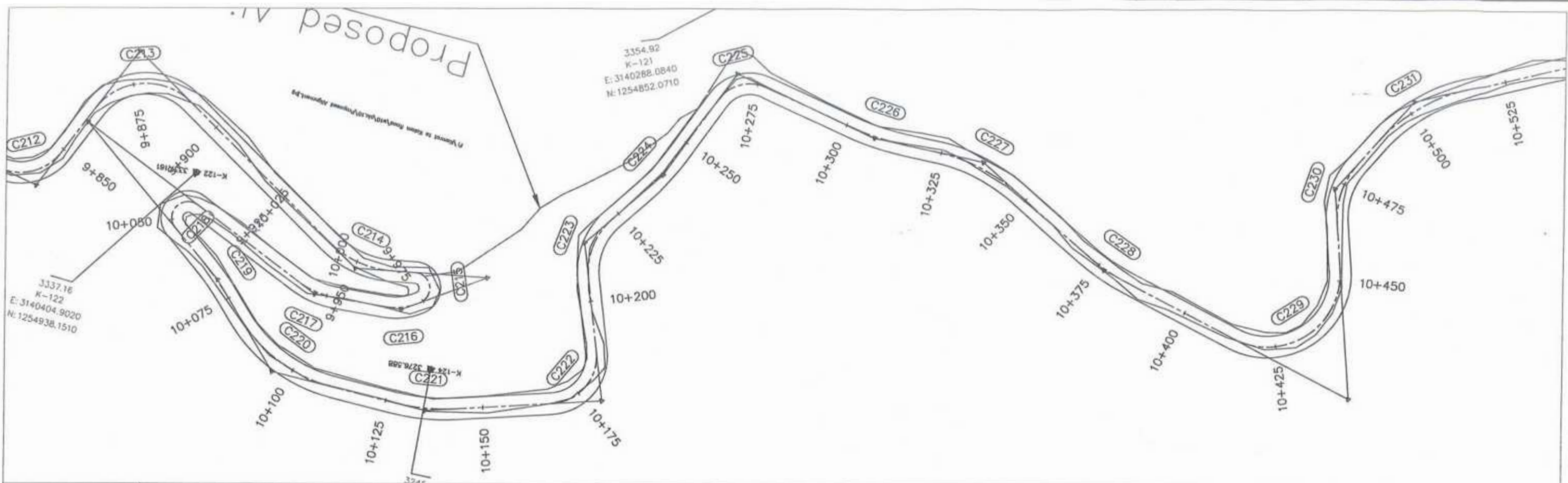


*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

STATION	9+720	9+725	9+750	9+775	9+800	9+825	9+850	9+875	9+900	9+925	9+950	9+975	10+000	10+025	10+050	10+075
N.S.L	3310.929	3311.295	3312.241	3313.109	3314.061	3315.121	3316.510	3317.609	3319.026	3321.161	3323.154	3325.450	3327.340	3328.563	3330.223	3331.928
F.R.L	3310.929	3311.295	3312.241	3313.109	3314.061	3315.121	3316.510	3317.609	3319.026	3321.161	3323.154	3325.450	3327.340	3328.563	3330.223	3331.928

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000	PLAN & PROFILE 9+720.00 - 10+080.00
		a			DRAWN	IFTIKHAR ABBAS			V=1:1000	
		b			CHECKED	S.DURRANI			DATE:	
c			APPROVED	AQEEL YOUNIS	AUG. 2024.					
								Minconsult International Ltd. Engineering Consultants	CEC/KP-RRDP/HWIN-SWT-T4/PP/ 28	

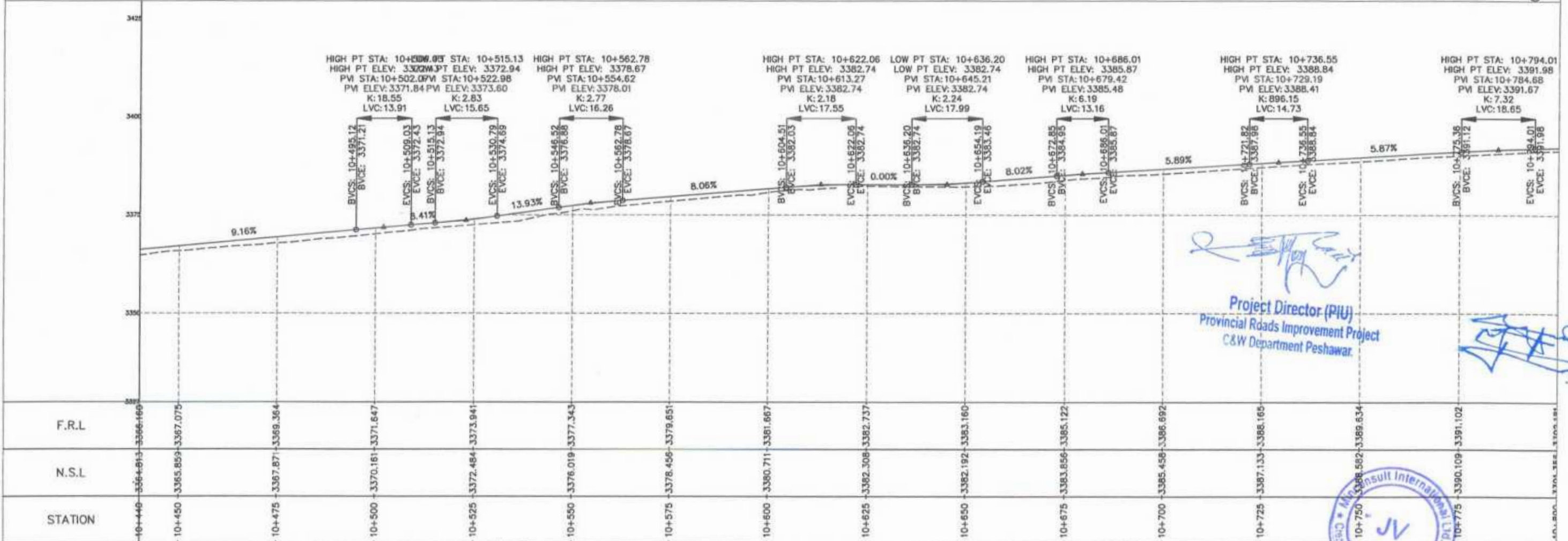
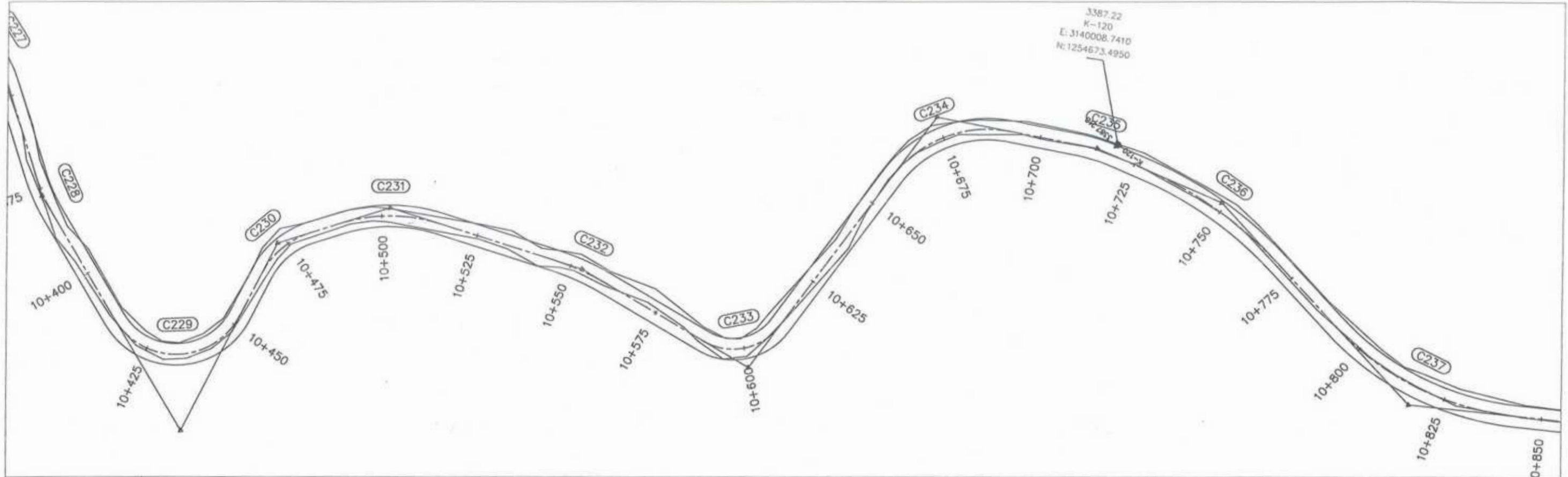




STATION	N.S.L	F.R.L
10+080	3343.15	3344.34
10+100	3345.20	3346.49
10+125		3348.17
10+150	3348.59	3349.55
10+175	3350.23	3350.94
10+200	3351.36	3352.78
10+225	3352.51	3351.56
10+250	3350.29	3350.49
10+275	3348.98	3351.71
10+300	3352.77	3353.80
10+325	3354.22	3355.72
10+350	3357.30	3359.13
10+375	3360.82	3362.45
10+400	3363.62	3364.43
10+425	3364.54	3365.17
10+440	3364.93	3364.50

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		d	AUG. 2024	Tender Drawings.	G.DESIGNED					S. DURRANI
		e			DRAWN					IFTIKHAR ABBAS
		b			CHECKED					S. DURRANI
			c		APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE 10+080.00 - 10+440.00
							TOURISM ROADS	AUG. 2024	CEC/KP-RRDP/HWIN-SWT-T4/PP/	29



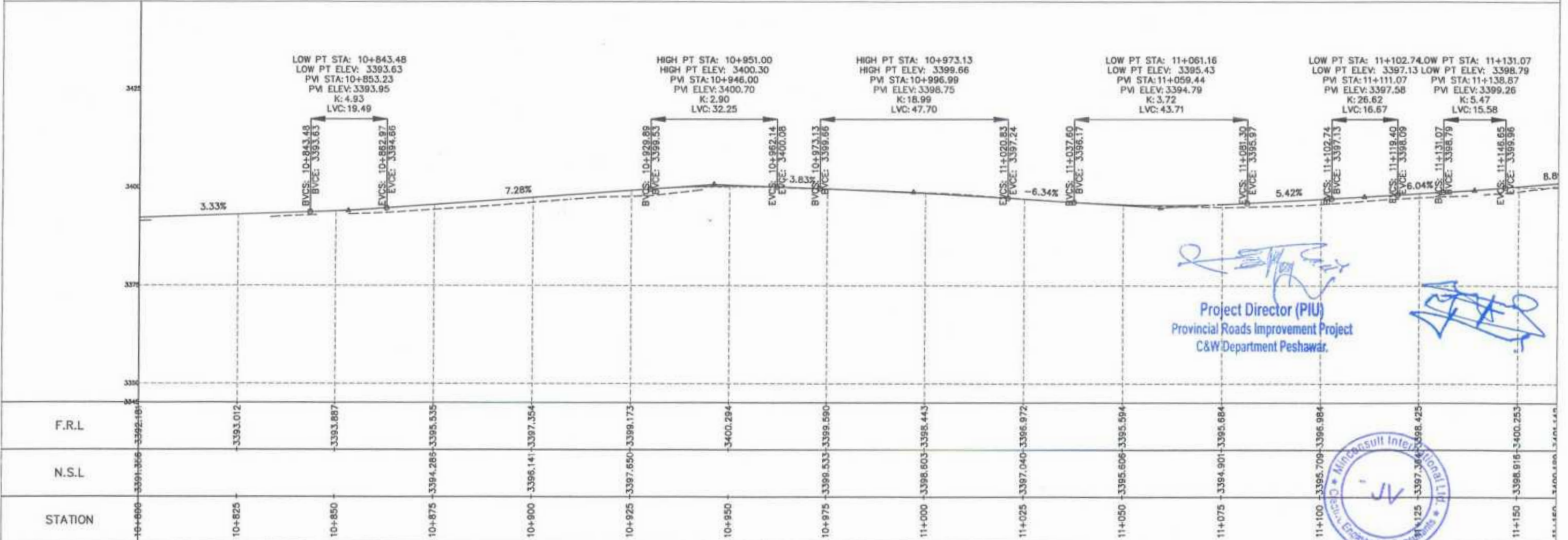
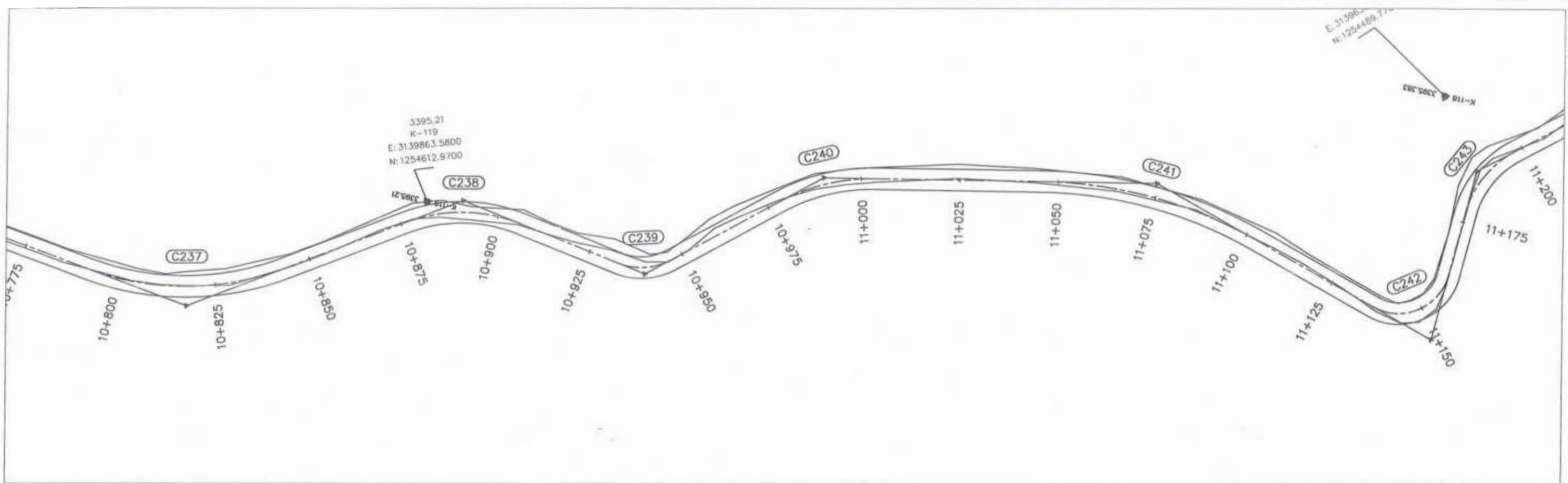


**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024.	SHEET CONTENT: PLAN & PROFILE 10+440.00 - 10+800.00
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		b			CHECKED	S.DURRANI				
		c			APPROVED	AOEEL YOUNIS				



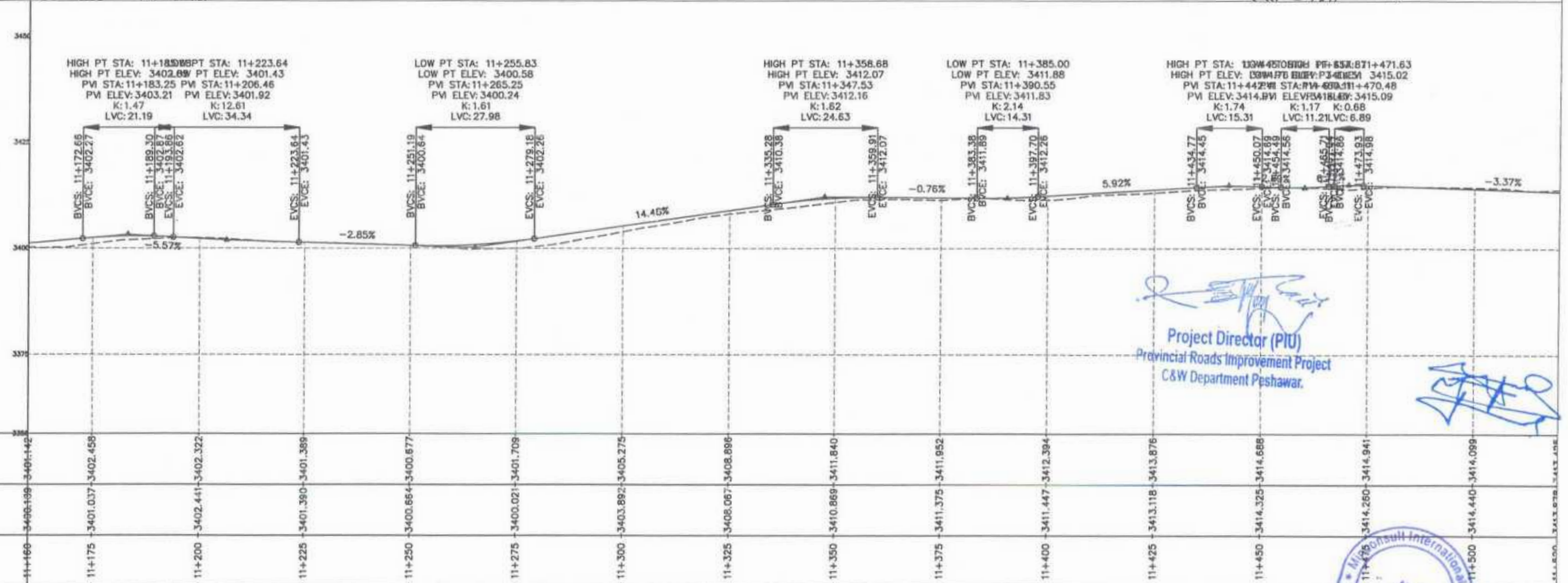
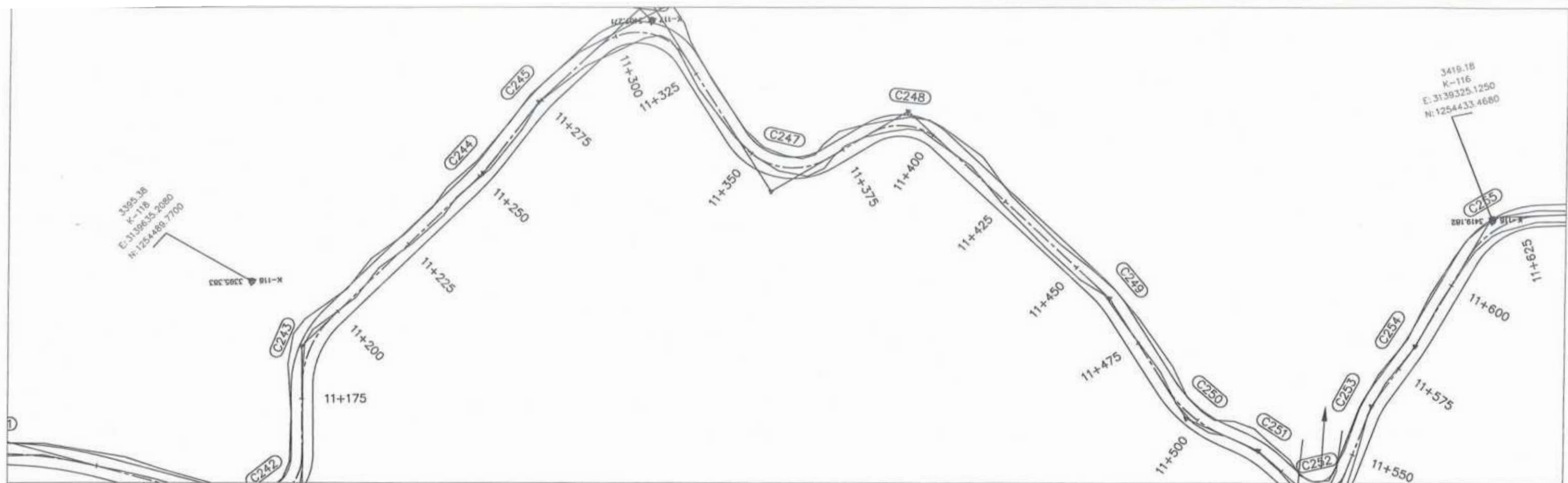




Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	d	AUG.2024	Tender Drawings.	G DESIGNED	S. DURRANI	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 10+800.00 - 11+160.00
		a			DRAWN	IFTIKHAR ABBAS			
		b			CHECKED	S. DURRANI			
		c			APPROVED	AQEEL YOUNIS			
						KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:	
								AUG. 2024.	CEC/KP-RRDP/HWN-SWT-T4/PP/ 31



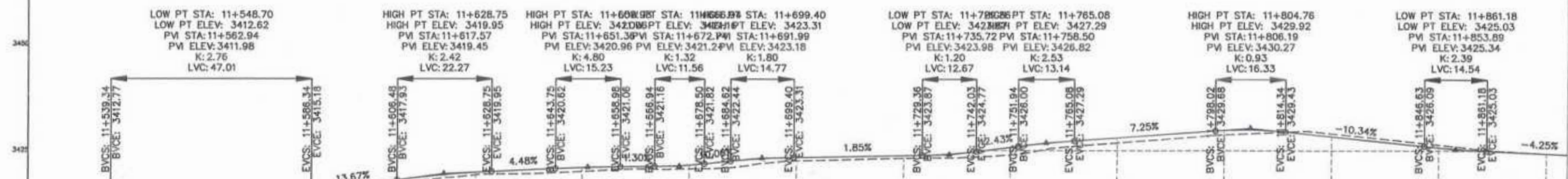
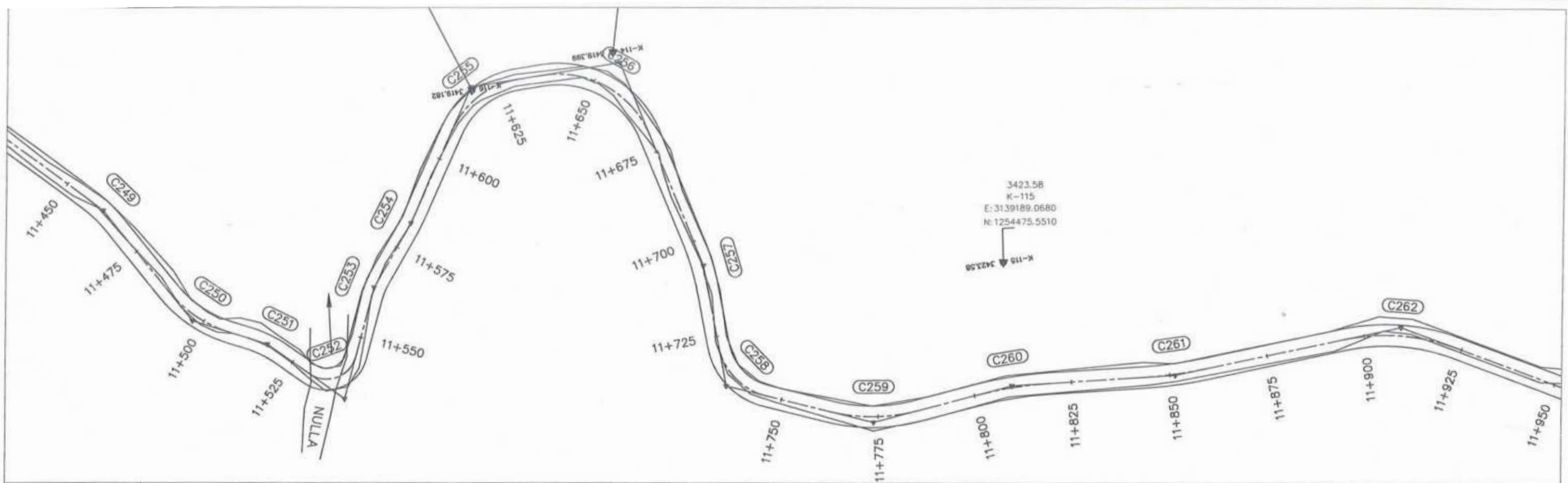


Project Director (PIU)
   
 Provincial Roads Improvement Project
   
 C&W Department Peshawar.

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 11+160.00 - 11+520.00	
		a			DRAWN IFTIKHAR ABBAS					DATE:
		b			CHECKED S.DURRANI					AUG. 2024
		c			APPROVED AQEEL YOUNIS					CEC/KP-RRDP/HWN-SWT-T4/PP/









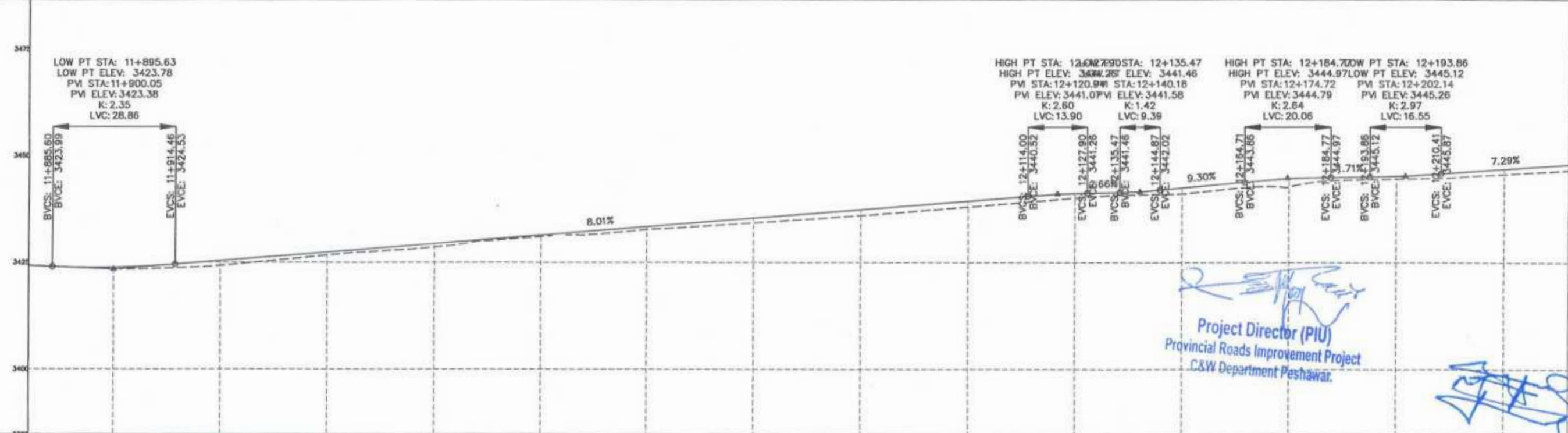
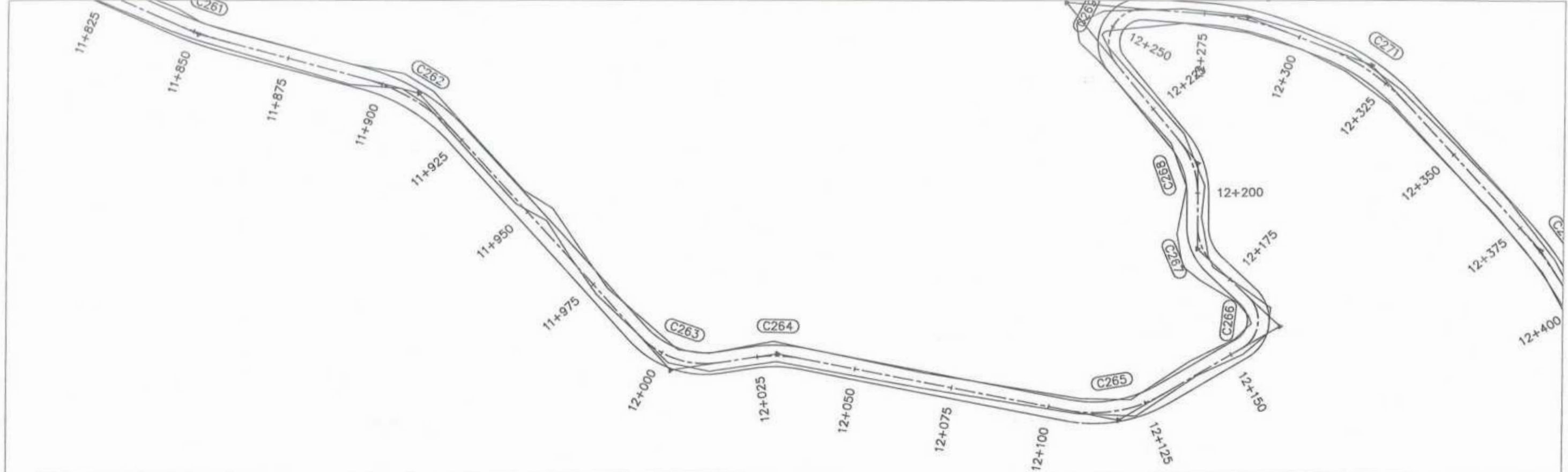
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L.	3413.425	3412.562	3412.618	3413.663	3417.045	3419.751	3420.859	3421.514	3423.324	3423.786	3425.760	3428.012	3428.329	3425.768	3424.445
N.S.L.	3413.678	3413.645	3413.256	3411.771	3416.003	3419.164	3419.751	3420.634	3421.514	3423.169	3423.990	3426.843	3428.019	3426.415	3424.445
STATION	11+500	11+525	11+550	11+575	11+600	11+625	11+650	11+675	11+700	11+725	11+750	11+775	11+800	11+825	11+850

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE:	PLAN & PROFILE 11+520.00 - 11+880.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
c			APPROVED	AQEEL YOUNIS						
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA DESIGN CONSULTANT: (MIN - JV - CEC) PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP SCALE: H=1:1000, V=1:1000 SHEET CONTENT: PLAN & PROFILE 11+520.00 - 11+880.00 DATE: AUG. 2024 CHECK: KP-RRDP/RWN-SWT-T4/PPV										





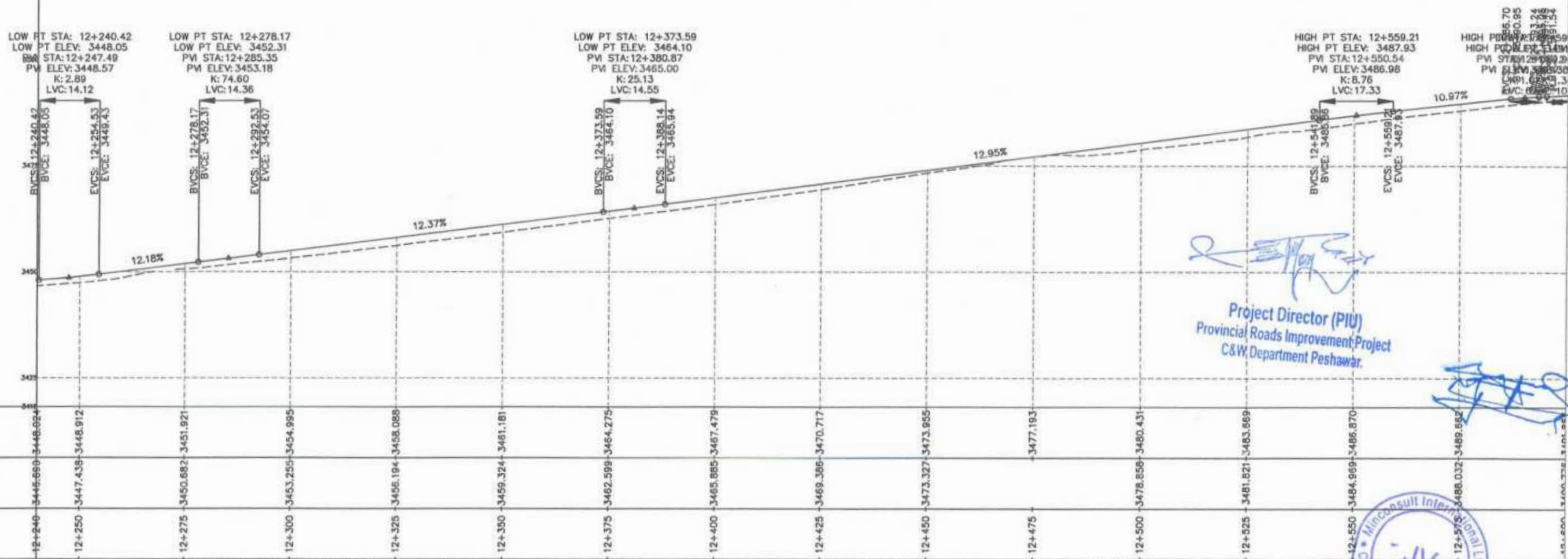
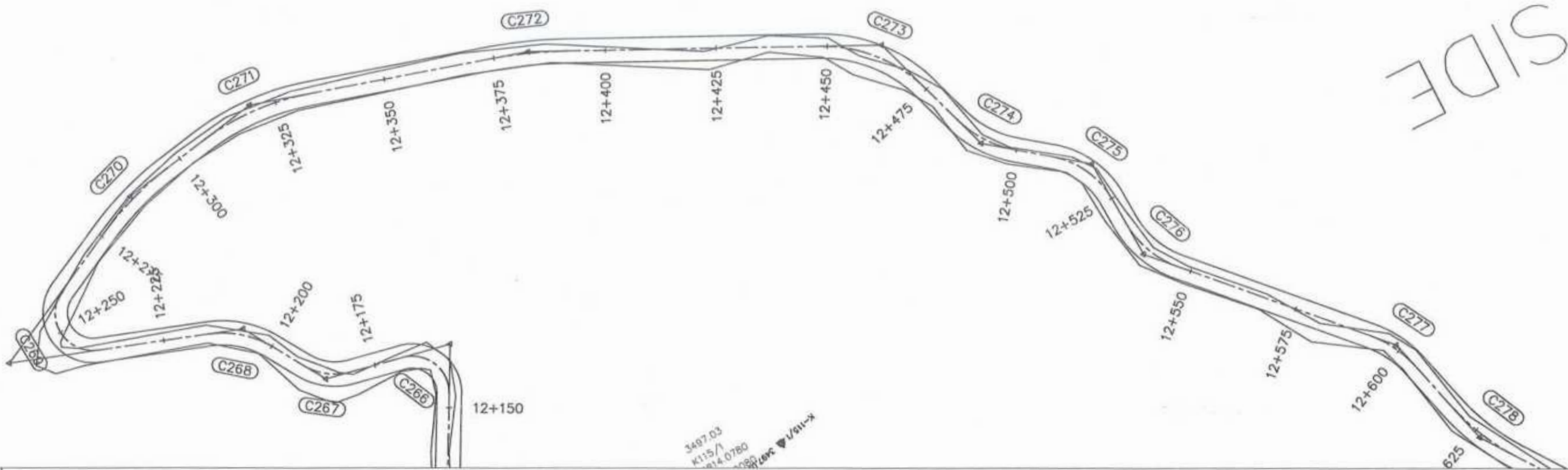


*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	11+880	11+900	11+925	11+950	11+975	12+000	12+025	12+050	12+075	12+100	12+125	12+150	12+175	12+200	12+225								
N.S.L	3424.259	3423.474	3424.253	3425.378	3426.676	3427.380	3428.596	3429.383	3431.026	3431.385	3432.671	3433.388	3434.264	3435.390	3437.393	3439.395	3440.092	3441.164	3442.497	3444.620	3444.568	3445.291	3445.930
STATION	11+880	11+900	11+925	11+950	11+975	12+000	12+025	12+050	12+075	12+100	12+125	12+150	12+175	12+200	12+225								

<p><b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b>          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p><b>MINCONSULT SDN BHD</b>          (COMPANY NO. 58835-P)          J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b></p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		a	AUG, 2024	Tender Drawings.	G. DESIGNED					S. DURRANI
		b			DRAWN					IFTIKHAR ABBAS
		c			CHECKED					S. DURRANI
					APPROVED					AQEEL YOUNIS
<p><b>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</b></p>							<p>N-SWT-T4          UTHROR TO THAL VIA BADGOI TOP</p>		<p>H=1:1000          V=1:1000</p>	<p>PLAN &amp; PROFILE          11+880.00 - 12+240.00</p>
							<p>TOURISM ROADS</p>		<p>AUG, 2024</p>	<p>CEC/KP-RRDP/HWN-SWT-T4/PP/ 34</p>





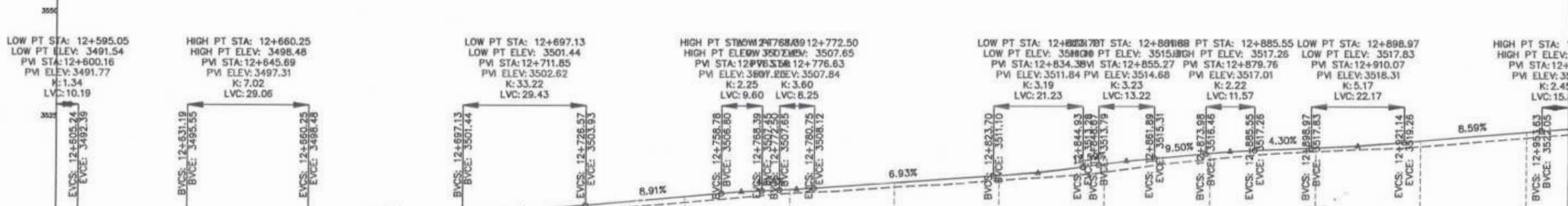
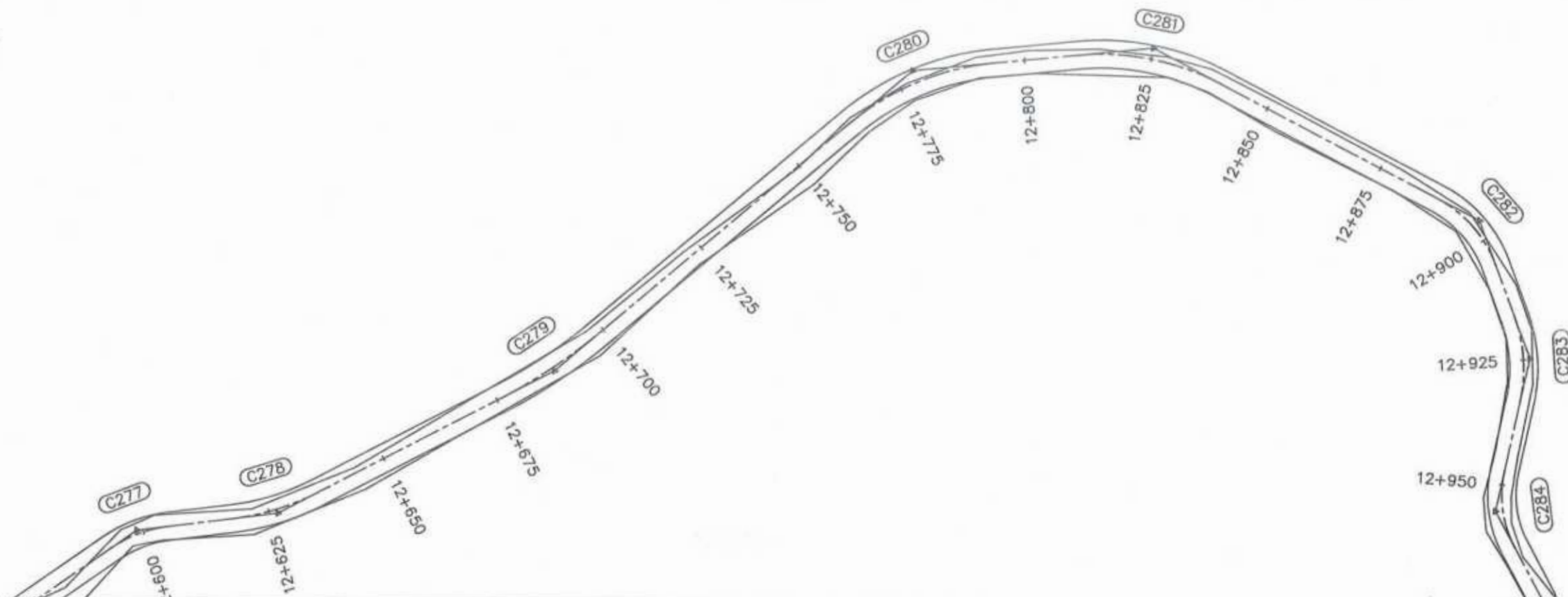
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W, Department Peshawar.

*[Signature]*

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 12+240.00 - 12+600.00 CEC/KP-RRDP/HWN-SWT-T4/PP/
		a			DRAWN: IFTIKHAR ABBAS				
		b			CHECKED: S. DURRANI				
		c			APPROVED: AQEEL YOUNIS				



UT SIDE

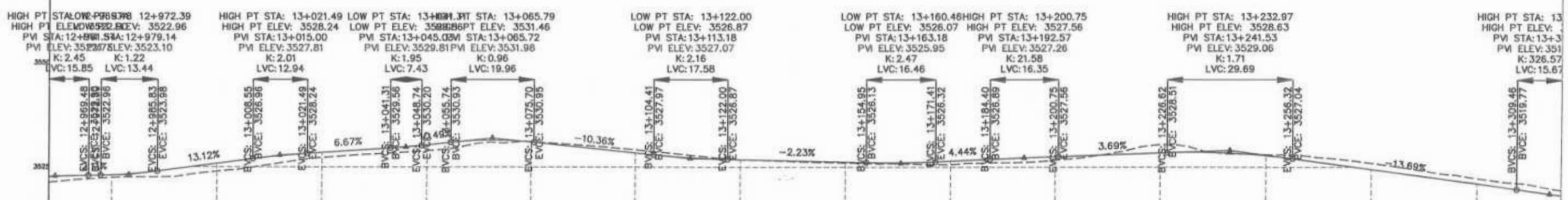
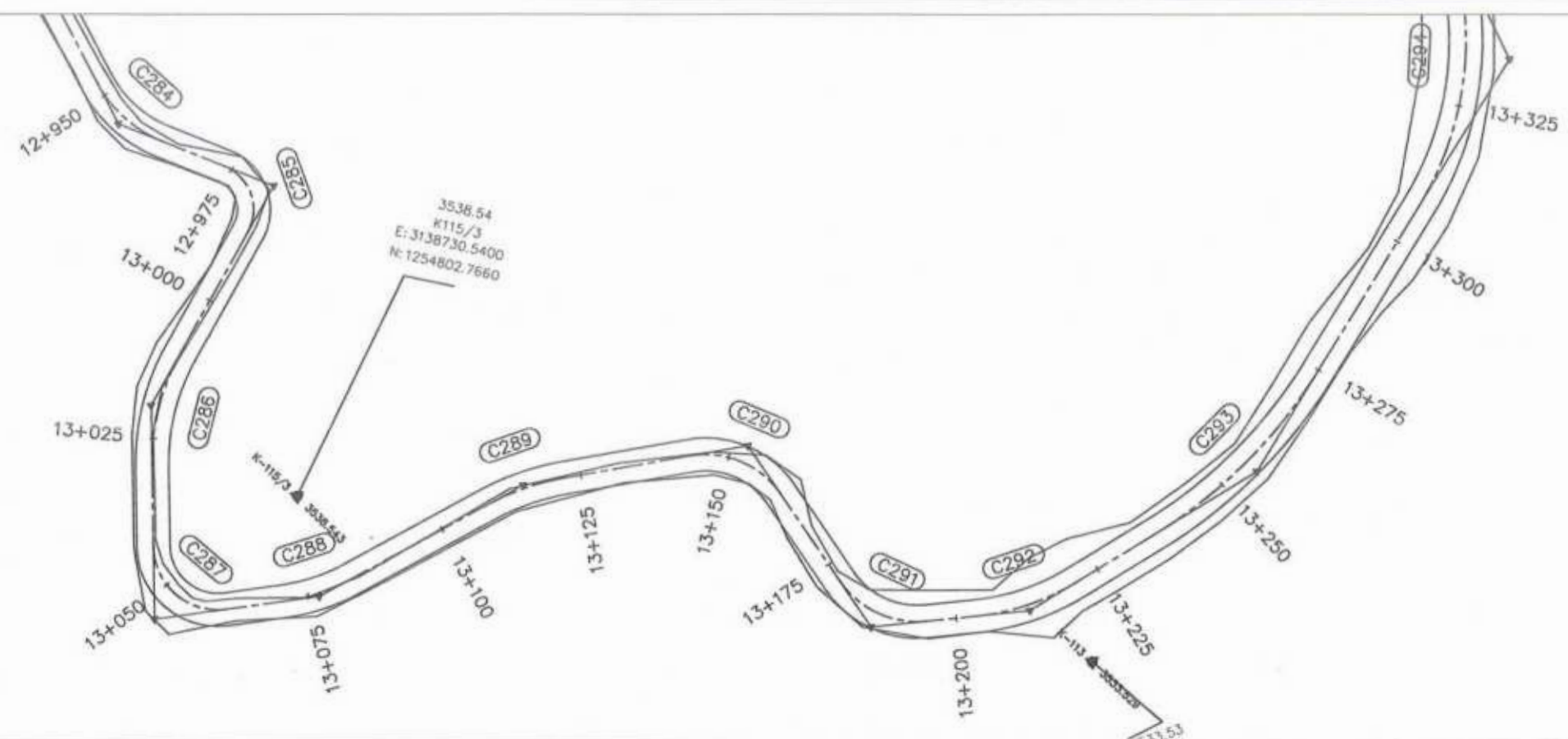


*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	12+600	3496.770	12+625	3493.093	12+650	3495.935	12+675	3498.330	12+700	3500.417	12+725	3502.454	12+750	3504.651	12+775	3506.876	12+800	3508.421	12+825	3510.081	12+850	3512.025	12+875	3515.138	12+900	3517.029	12+925	3518.258	12+950	3520.350
N.S.L	12+600	3496.770	12+625	3493.093	12+650	3495.935	12+675	3498.330	12+700	3500.417	12+725	3502.454	12+750	3504.651	12+775	3506.876	12+800	3508.421	12+825	3510.081	12+850	3512.025	12+875	3515.138	12+900	3517.029	12+925	3518.258	12+950	3520.350
STATION	12+600	12+625	12+650	12+675	12+700	12+725	12+750	12+775	12+800	12+825	12+850	12+875	12+900	12+925	12+950															

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	Tender Drawings	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG, 2024	SHEET CONTENT: PLAN & PROFILE 12+600.00 - 12+960.00 CEC/KP-RRDP/HWIN-SWT-T4/PP/ 36
		a			DRAWN	IFTIKHAR ABBAS			
		b			CHECKED	S.DURRANI			
		c			APPROVED	AQEEL YOUNIS			





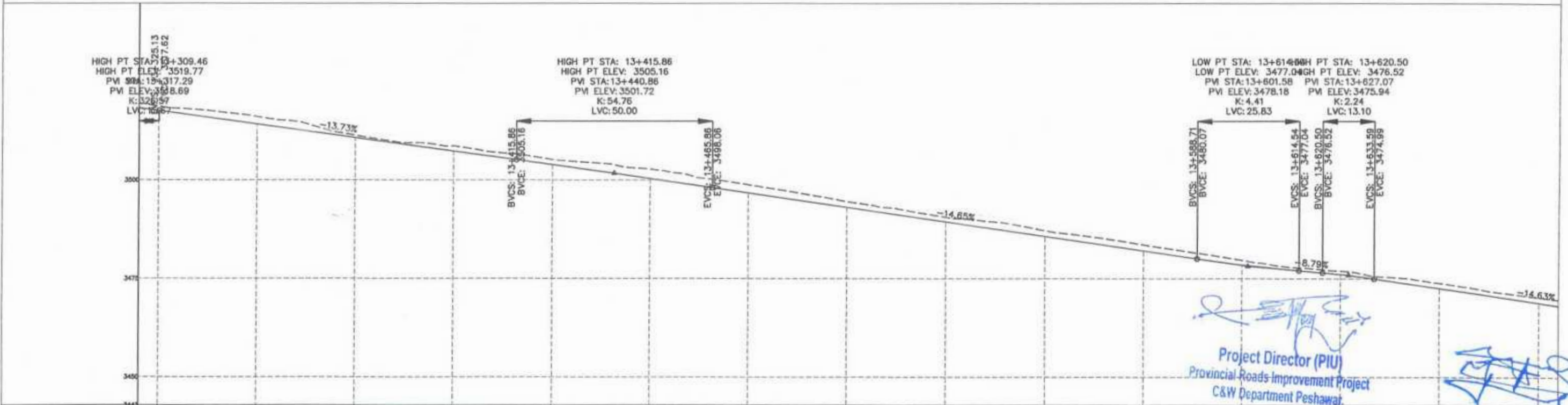
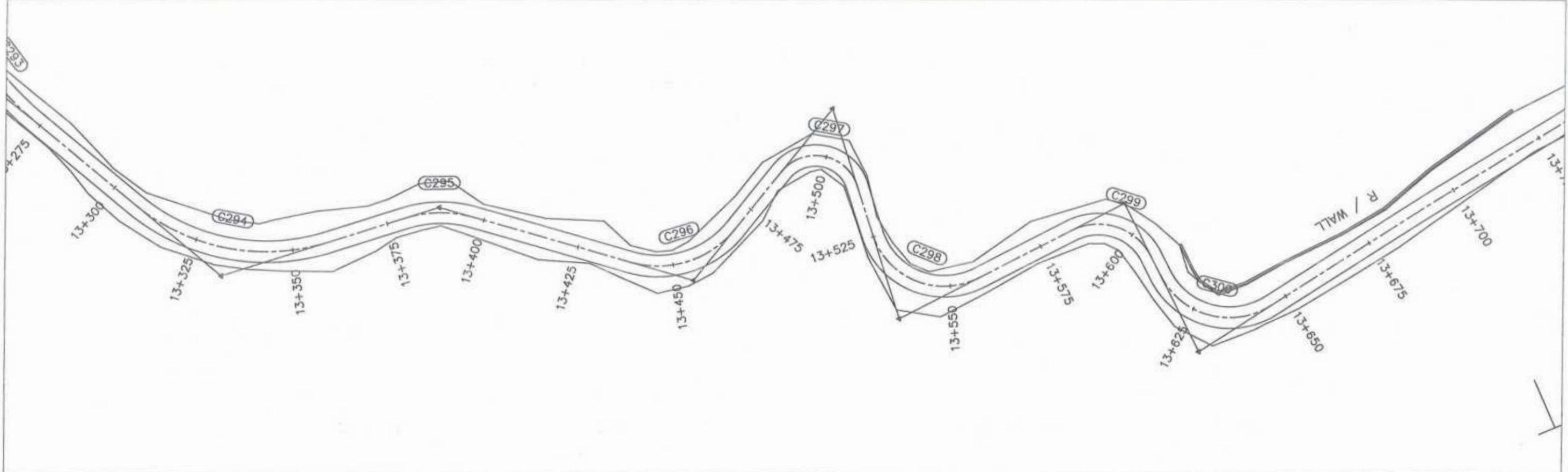
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*

F.R.L	12+960	3521.236	12+975	3522.406	13+000	3523.963	13+025	3527.279	13+050	3528.919	13+075	3531.138	13+100	3529.176	13+125	3526.728	13+150	3526.031	13+175	3525.663	13+200	3526.688	13+225	3530.433	13+250	3528.013	13+275	3525.939	13+300	3522.271	13+325	3521.060
N.S.L	12+960	3521.236	12+975	3522.406	13+000	3523.963	13+025	3527.279	13+050	3528.919	13+075	3531.138	13+100	3529.176	13+125	3526.728	13+150	3526.031	13+175	3525.663	13+200	3526.688	13+225	3530.433	13+250	3528.013	13+275	3525.939	13+300	3522.271	13+325	3521.060
STATION	12+960	12+975	13+000	13+025	13+050	13+075	13+100	13+125	13+150	13+175	13+200	13+225	13+250	13+275	13+300	13+325																

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES	PROJECT	ROAD NAME	SCALE	SHEET CONTENT	
		a	AUG, 2024	Tender Drawings.	G. DESIGNED	S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE 12+960.00 - 13+320.00
		b			CHECKED	S. DURRANI				
		c			APPROVED	AQEEL YOUNIS				
									DATE: AUG, 2024 CEC/KP-RRDP/MAIN-N-SWT-T4/PIU/ 37	





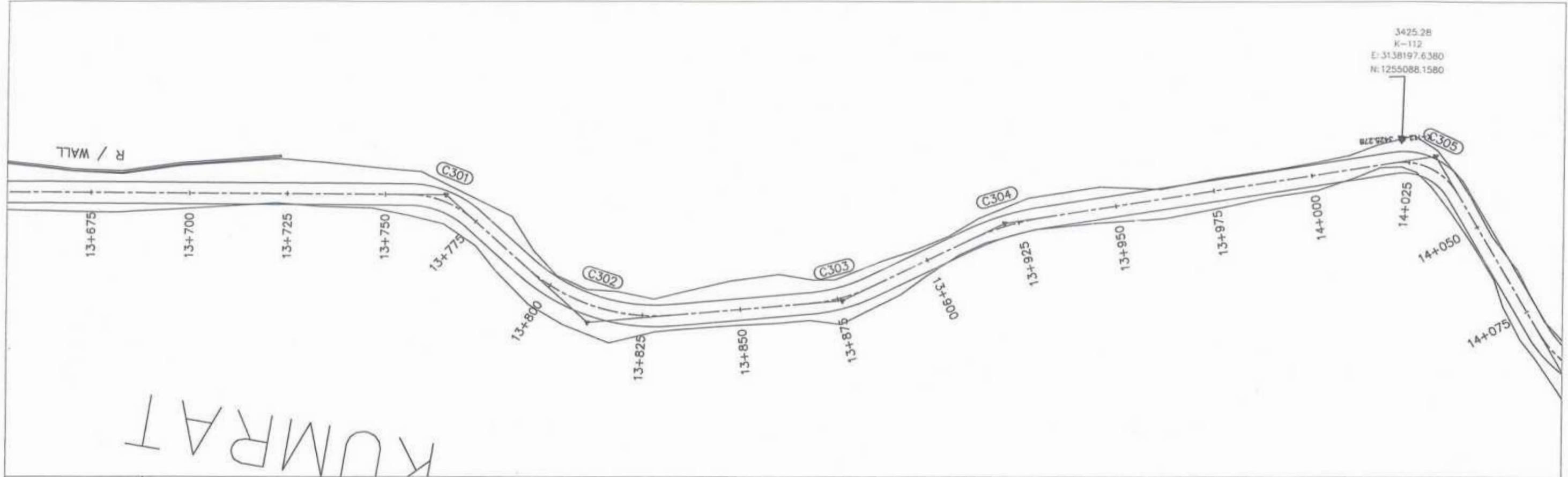
F.R.L	13+275	3518.322	13+300	3518.322	13+325	3517.635	13+350	3514.202	13+375	3510.769	13+400	3507.335	13+425	3503.894	13+450	3500.362	13+475	3496.723	13+500	3493.062	13+525	3489.400	13+550	3485.738	13+575	3482.077	13+600	3478.561	13+625	3475.081	13+650	3471.565	13+675	3468.033	13+700	3464.501
N.S.L	13+275	3518.736	13+300	3518.736	13+325	3517.635	13+350	3516.092	13+375	3511.364	13+400	3508.631	13+425	3505.195	13+450	3502.785	13+475	3498.814	13+500	3494.506	13+525	3490.566	13+550	3487.177	13+575	3483.581	13+600	3479.708	13+625	3476.958	13+650	3473.877	13+675	3470.292	13+700	3466.933
STATION	13+275	13+300	13+325	13+350	13+375	13+400	13+425	13+450	13+475	13+500	13+525	13+550	13+575	13+600	13+625	13+650	13+675	13+700																		

Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar

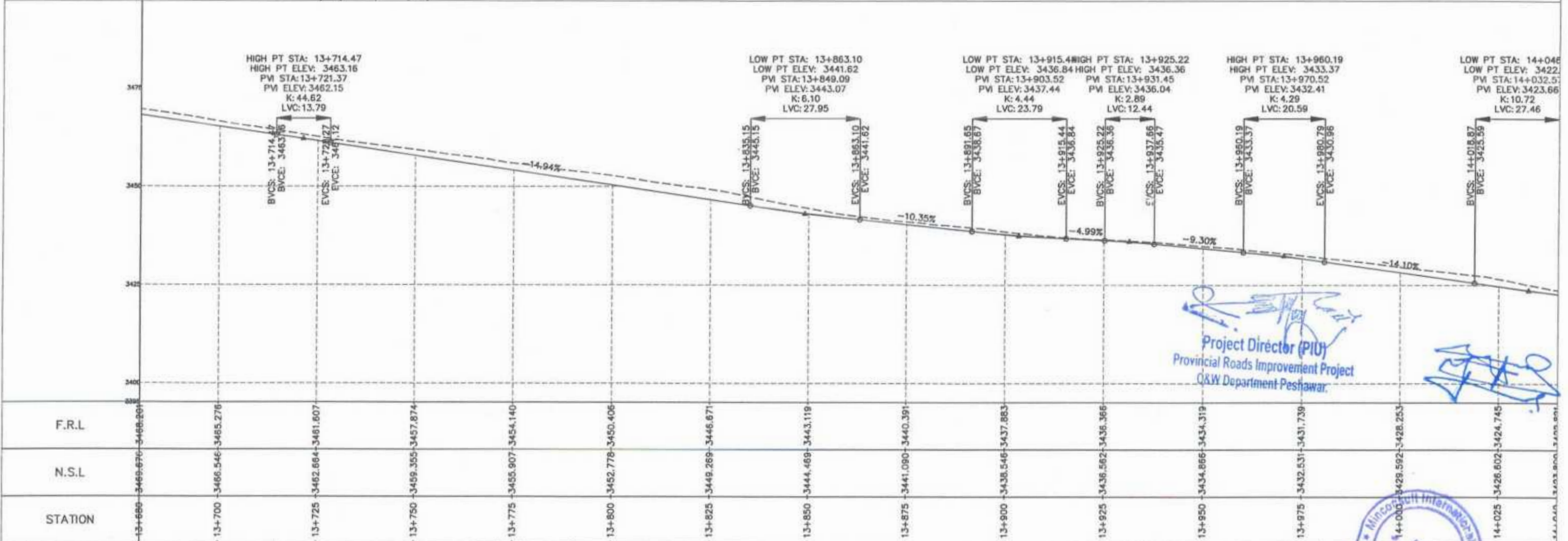
 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024.	SHEET CONTENT: PLAN & PROFILE 13+320.00 - 13+680.00 CEC/KP-RRDP/HWN-SWT-T4/PP/
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YUNIS				







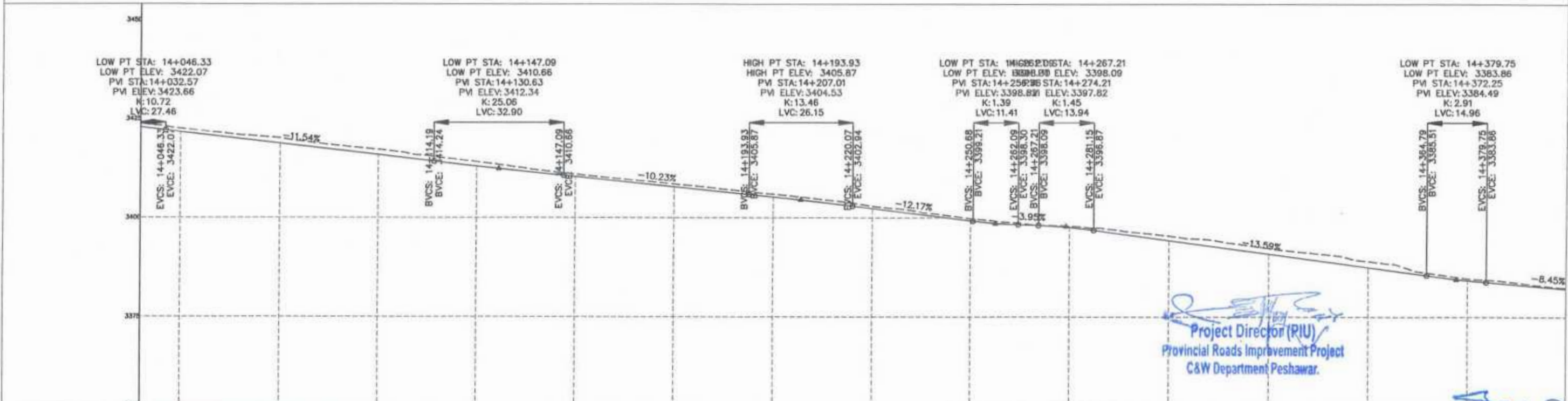
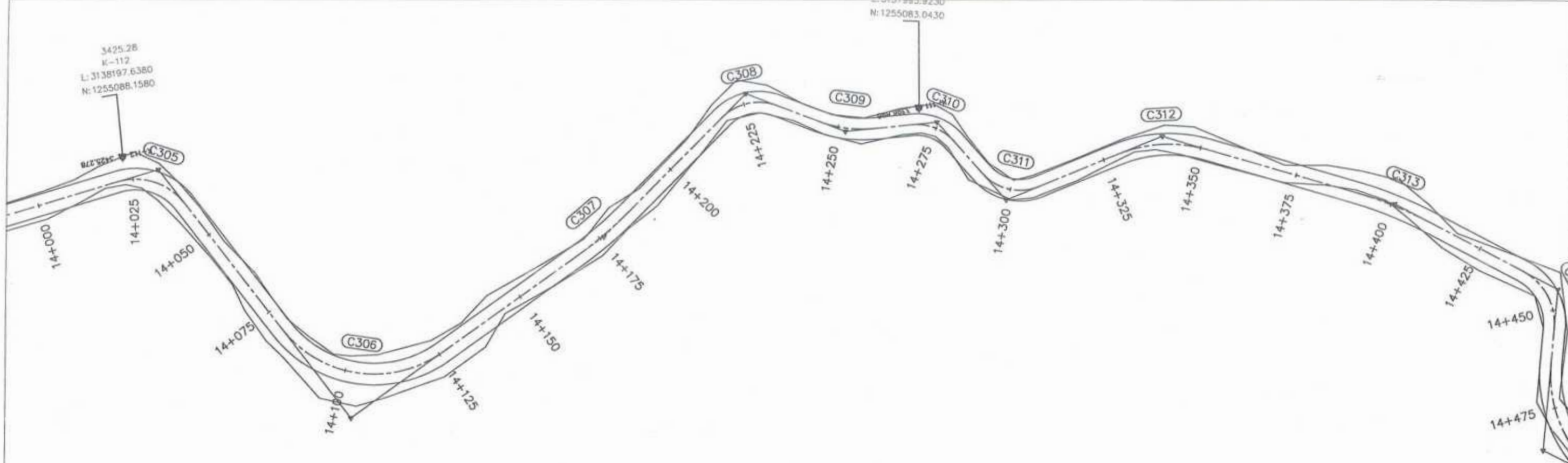
KUMRAT



Project Director (PIU)  
Provincial Roads Improvement Project  
Q&W Department Peshawar.

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 56235-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024.	PLAN & PROFILE 13+580.00 - 14+040.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 39
		a			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S.DURRANI				
		c			APPROVED AQEEL YOUNIS				



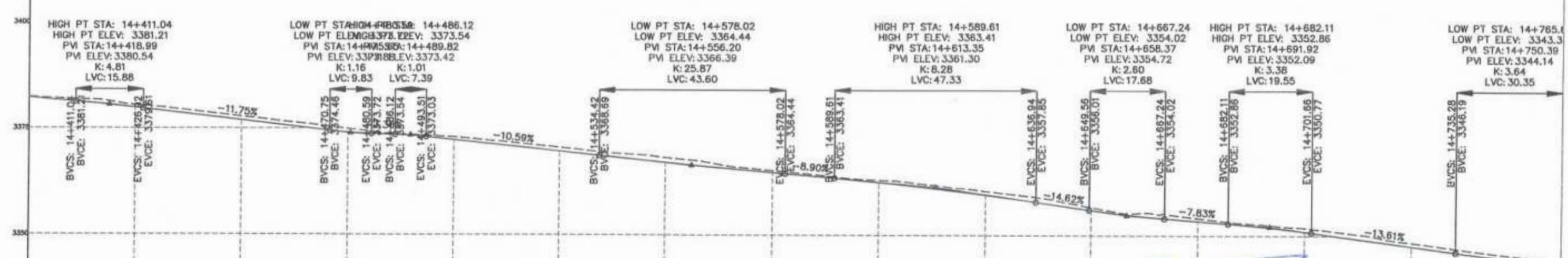
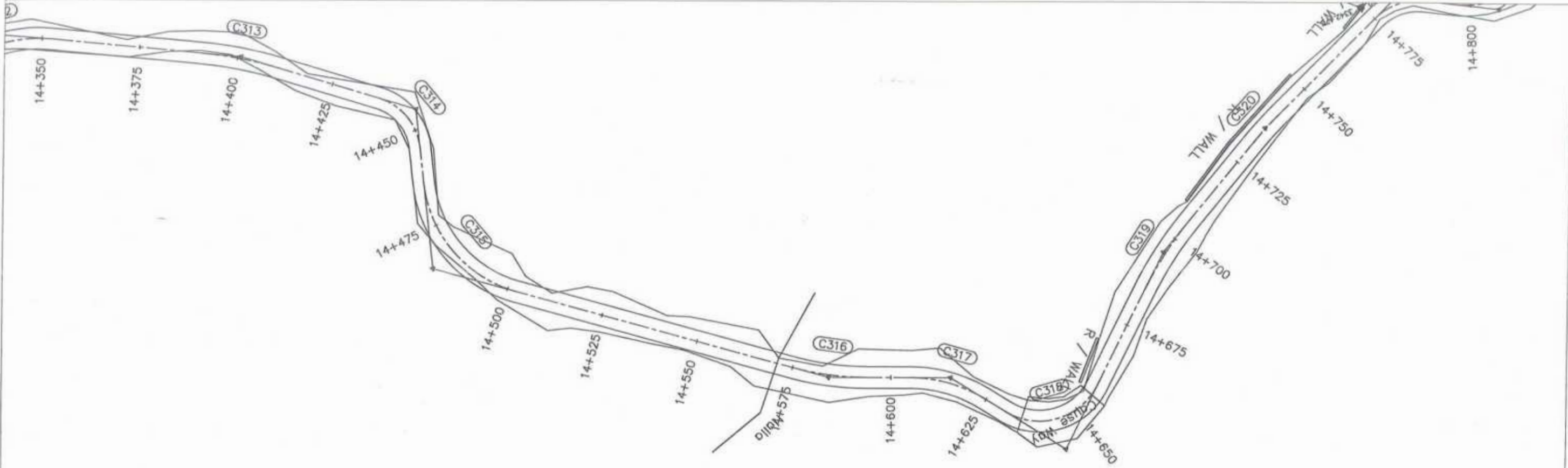


F.R.L	3422.821	3421.648	3418.763	3415.877	3413.015	3410.360	3407.803	3405.232	3402.339	3399.296	3397.578	3394.312	3390.814	3387.516	3384.263	3380.211
N.S.L	3423.693	3422.497	3420.148	3417.200	3414.130	3410.984	3408.520	3405.959	3402.927	3399.821	3397.953	3395.440	3392.337	3389.035	3384.735	3380.410
STATION	14+040	14+050	14+075	14+100	14+125	14+150	14+175	14+200	14+225	14+250	14+275	14+300	14+325	14+350	14+375	14+400

Project Director (RIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG.2024	Tender Drawings	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024	SHEET CONTENT: PLAN & PROFILE 14+040.00 - 14+400.00 CEC/KP-RRDP/HWN-SWT-T4/PP/	40
		a			DRAWN	IFTIKHAR ABBAS					
		b			CHECKED	S.DURRANI					
		c			APPROVED	AQEEL YOUNIS					



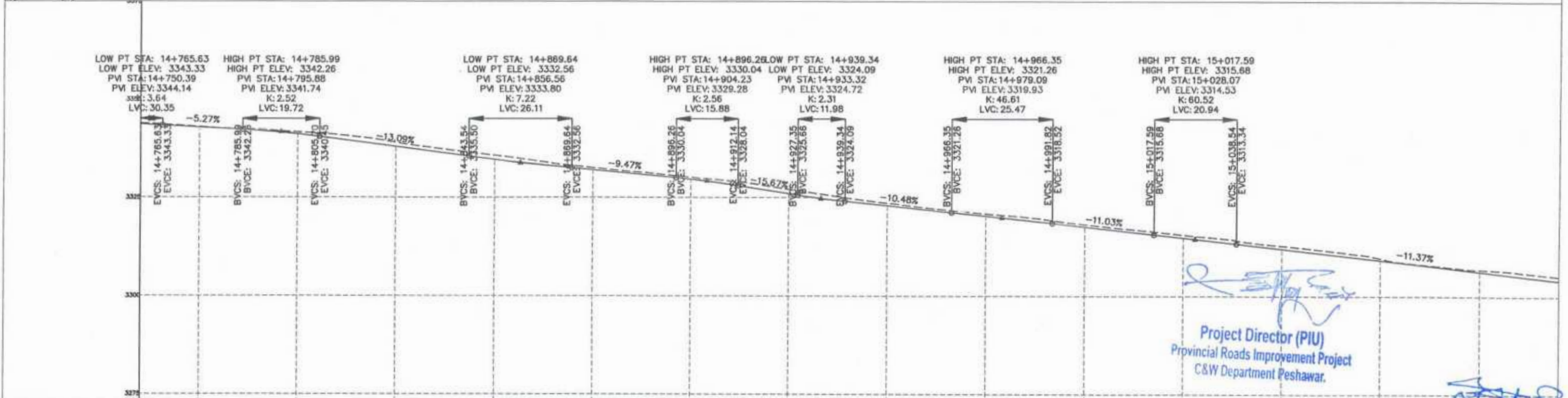
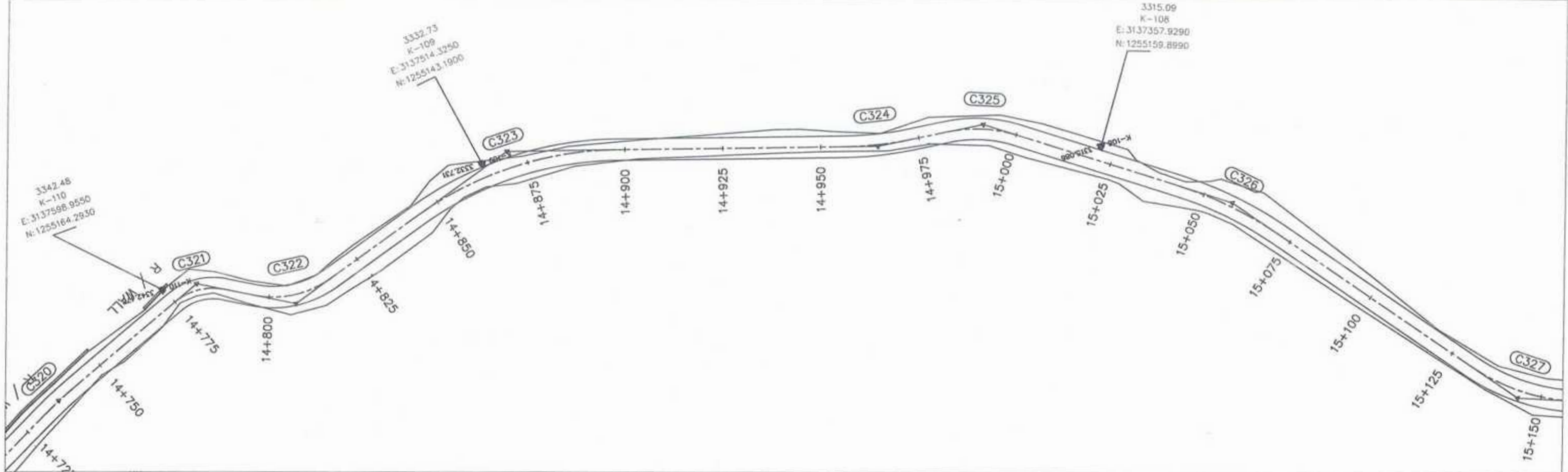


Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar

340	HIGH PT STA: 14+411.04 HIGH PT ELEV: 3381.21 PVI STA: 14+418.99 PVI ELEV: 3380.54 K: 4.81 LVC: 15.88	LOW PT STA: 14+486.12 LOW PT ELEV: 3373.54 PVI STA: 14+489.82 PVI ELEV: 3373.42 K: 1.16 LVC: 9.83	LOW PT STA: 14+578.02 LOW PT ELEV: 3364.44 PVI STA: 14+556.20 PVI ELEV: 3366.39 K: 25.87 LVC: 43.60	HIGH PT STA: 14+589.61 HIGH PT ELEV: 3363.41 PVI STA: 14+613.35 PVI ELEV: 3361.30 K: 8.28 LVC: 47.33	LOW PT STA: 14+667.24 LOW PT ELEV: 3354.02 PVI STA: 14+658.37 PVI ELEV: 3354.72 K: 2.60 LVC: 17.68	HIGH PT STA: 14+682.11 HIGH PT ELEV: 3352.86 PVI STA: 14+691.92 PVI ELEV: 3352.09 K: 3.38 LVC: 19.55	LOW PT STA: 14+765.1 LOW PT ELEV: 3343.3 PVI STA: 14+750.39 PVI ELEV: 3344.14 K: 3.64 LVC: 30.35									
337	BVCS: 14+411.04 BVCE: 3381.21 EVCS: 14+426.82 EVCE: 3379.81	BVCS: 14+470.75 BVCE: 3374.48 EVCS: 14+480.59 EVCE: 3373.72 BVCS: 14+486.12 BVCE: 3373.54 EVCS: 14+493.51 EVCE: 3373.03	BVCS: 14+534.42 BVCE: 3368.69 EVCS: 14+578.02 EVCE: 3364.44	BVCS: 14+589.61 BVCE: 3363.41 EVCS: 14+636.94 EVCE: 3357.85	BVCS: 14+649.56 BVCE: 3358.01 EVCS: 14+697.94 EVCE: 3354.02	BVCS: 14+682.11 BVCE: 3352.86 EVCS: 14+701.66 EVCE: 3350.77	BVCS: 14+735.28 BVCE: 3346.19									
330																
327																
F.R.L	14+400 3382.416	14+425 3390.469	14+450 3377.775	14+475 3374.907	14+500 3372.991	14+525 3370.562	14+550 3368.208	14+575 3365.150	14+600 3362.941	14+625 3360.392	14+650 3358.630	14+675 3354.101	14+700 3351.865	14+725 3348.439	14+750 3345.282	14+800 3343.601
N.S.L																
STATION	14+400	14+425	14+450	14+475	14+500	14+525	14+550	14+575	14+600	14+625	14+650	14+675	14+700	14+725	14+750	14+800

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0	DATE: AUG. 2024	DESCRIPTION: Tender Drawings.	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		a			G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4	H=1:1000	 PLAN & PROFILE 14+400.00 - 14+760.00
		b			DRAWN: IFTIKHAR ABBAS		UTHROR TO THAL VIA BADGOI TOP	V=1:1000	
		c			CHECKED: S. DURRANI	APPROVED: AQEEL YOUNIS		TOURISM ROADS	DATE: AUG. 2024



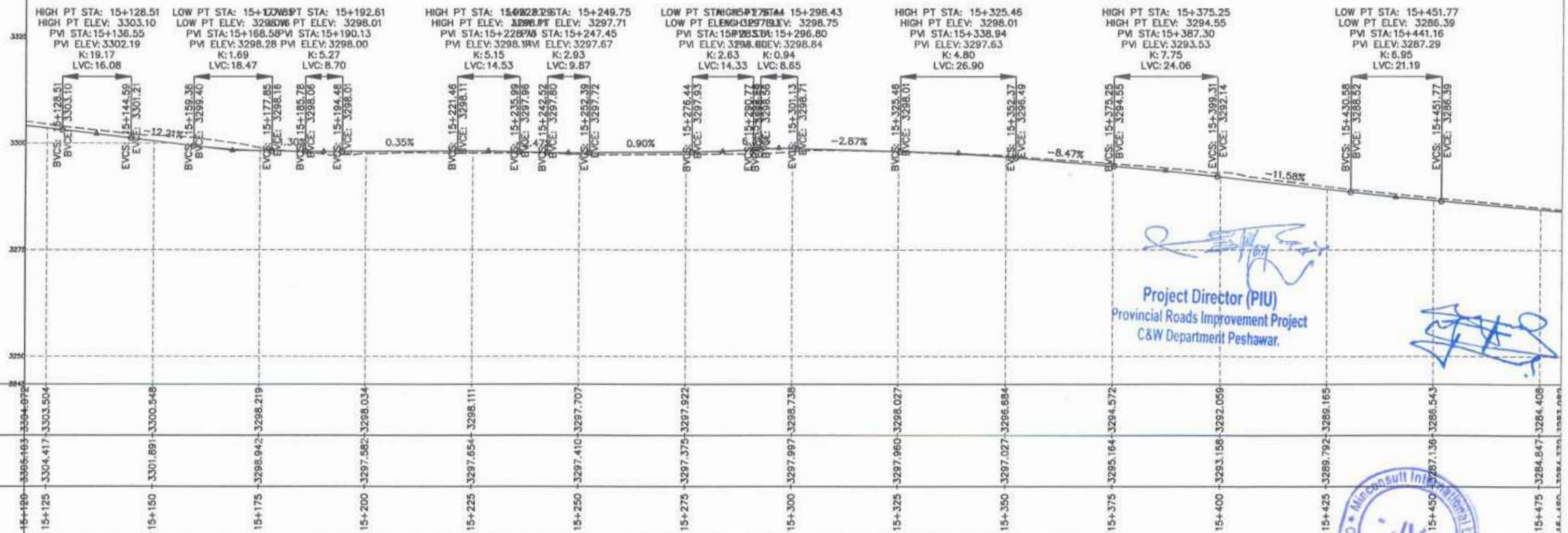
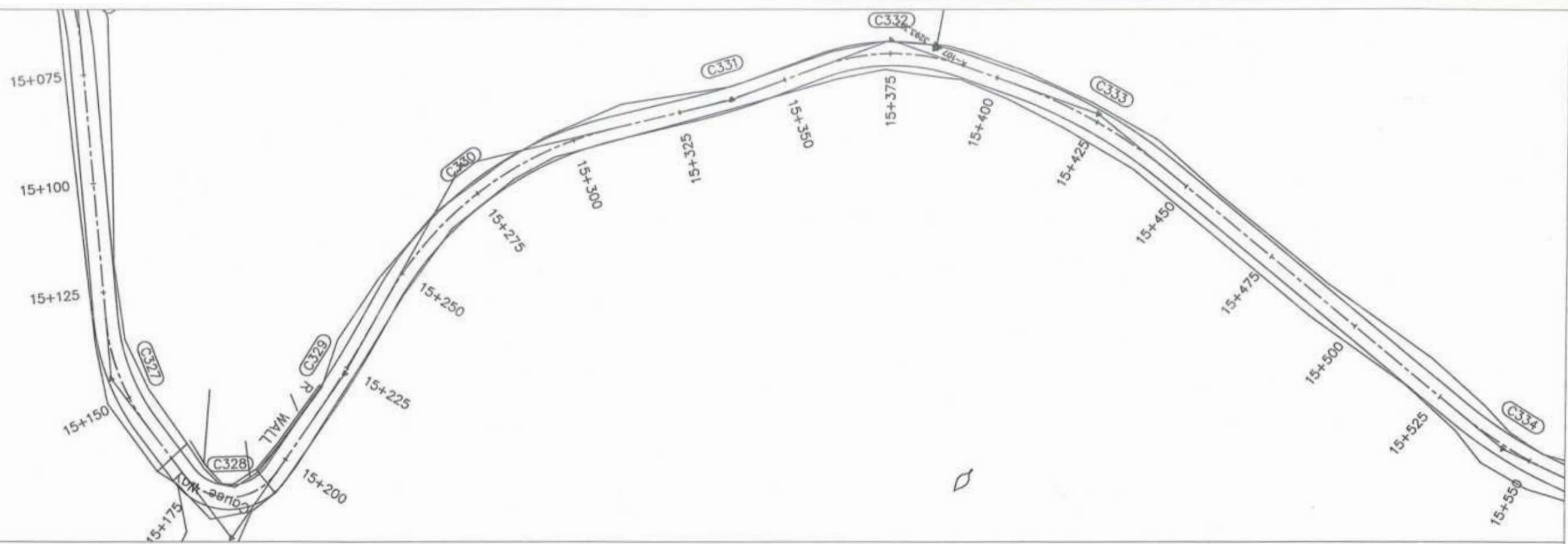


F.R.L	3343.891	3343.010	3342.838	3341.133	3337.927	3334.685	3332.051	3329.656	3327.141	3325.028	3323.629	3322.977	3320.349	3317.622	3314.861	3312.033	3309.190	3306.847	3305.300
N.S.L	3343.891	3343.010	3342.838	3341.133	3337.927	3334.685	3332.051	3329.656	3327.141	3325.028	3323.629	3322.977	3320.349	3317.622	3314.861	3312.033	3309.190	3306.847	3305.300
STATION	14+765	14+775	14+800	14+825	14+850	14+875	14+900	14+925	14+950	14+975	15+000	15+025	15+050	15+075	15+100	15+125	15+150		

*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET COMMENT:	
<b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	<b>PLAN &amp; PROFILE</b> 14+760.00 - 15+120.00	
		0			DRAWN	IFTIKHAR ABBAS		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:
		b			CHECKED	S.DURRANI				AUG. 2024
		c			APPROVED	AQEEL YOUNIS				CEC/KP-RRDP/4444-N-SWT-T4/PP/ 42



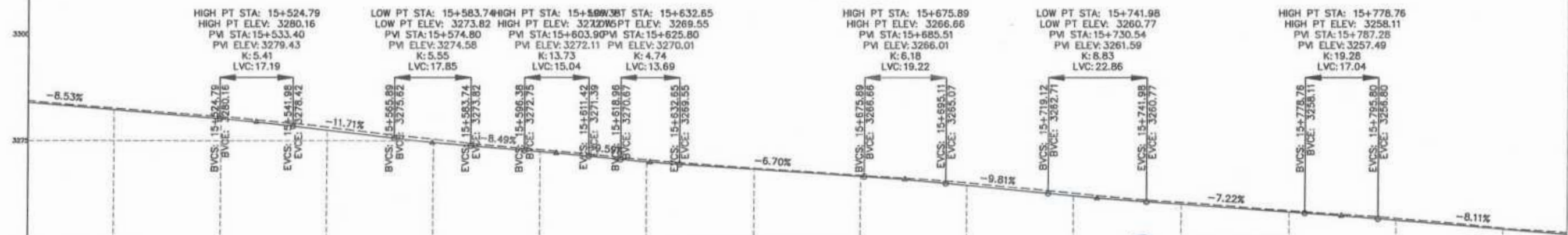
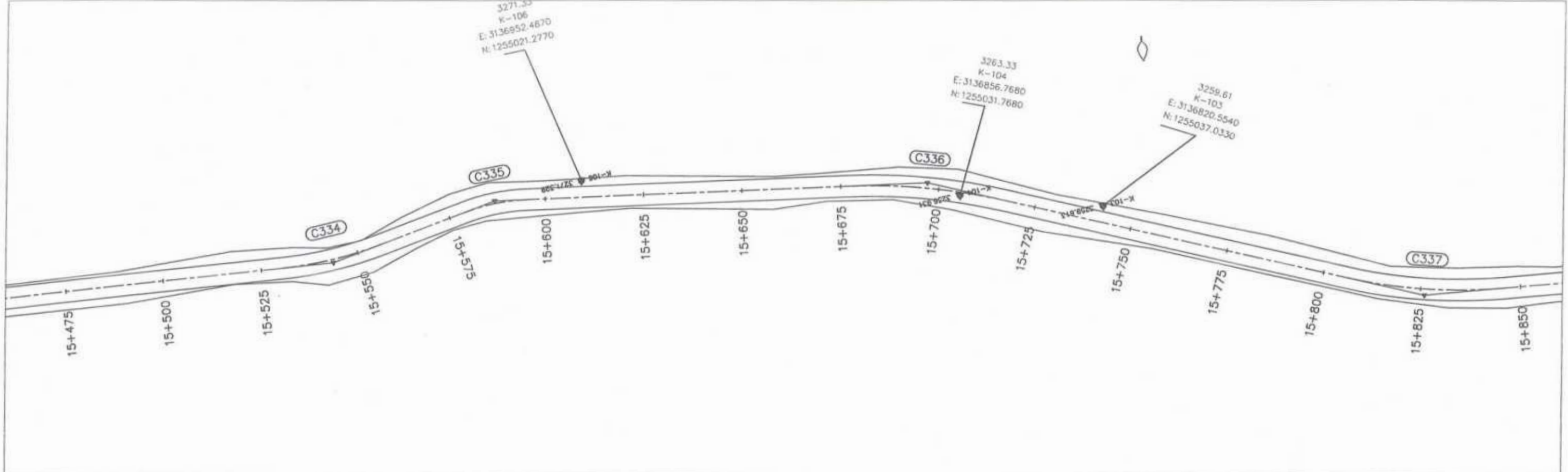


Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

F.R.L.	3304.972	3304.504	3300.548	3298.219	3298.034	3298.111	3297.707	3297.922	3297.758	3297.027	3296.984	3294.572	3292.059	3289.165	3286.543	3284.408
N.S.L.	3304.103	3304.417	3303.504	3299.942	3297.582	3297.654	3297.410	3297.375	3297.997	3297.960	3297.027	3295.164	3293.156	3289.792	3287.136	3284.847
STATION	15+120	15+125	15+150	15+175	15+200	15+225	15+250	15+275	15+300	15+325	15+350	15+375	15+400	15+425	15+450	15+475

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:	
		d	AUG.2024	Tender Drawings.	G.DESIGNED					S.DURRANI
		e			DRAWN					IFTIKHAR ABBAS
		b			CHECKED					S.DURRANI
			c		APPROVED	AGEEL YOUNIS				
<p>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</p>							<p>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP</p>		<p>H=1:1000 V=1:1000 DATE: AUG, 2024.</p>	<p>PLAN &amp; PROFILE 15+120.00 - 15+480.00</p>
							<p>TOURISM ROADS</p>			



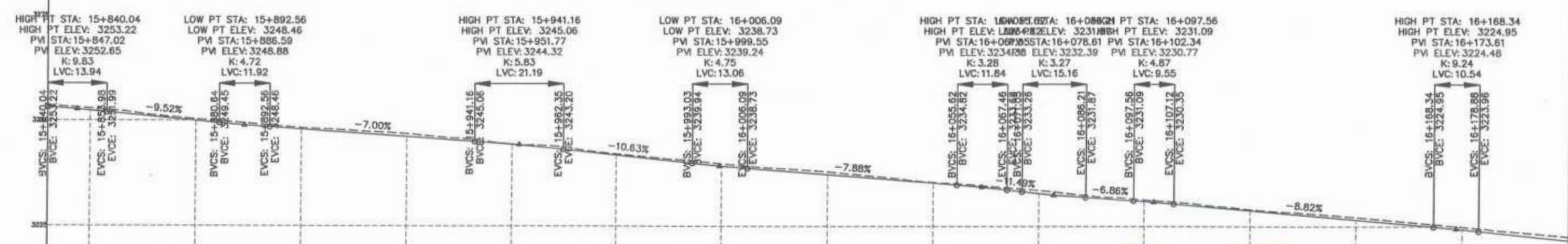
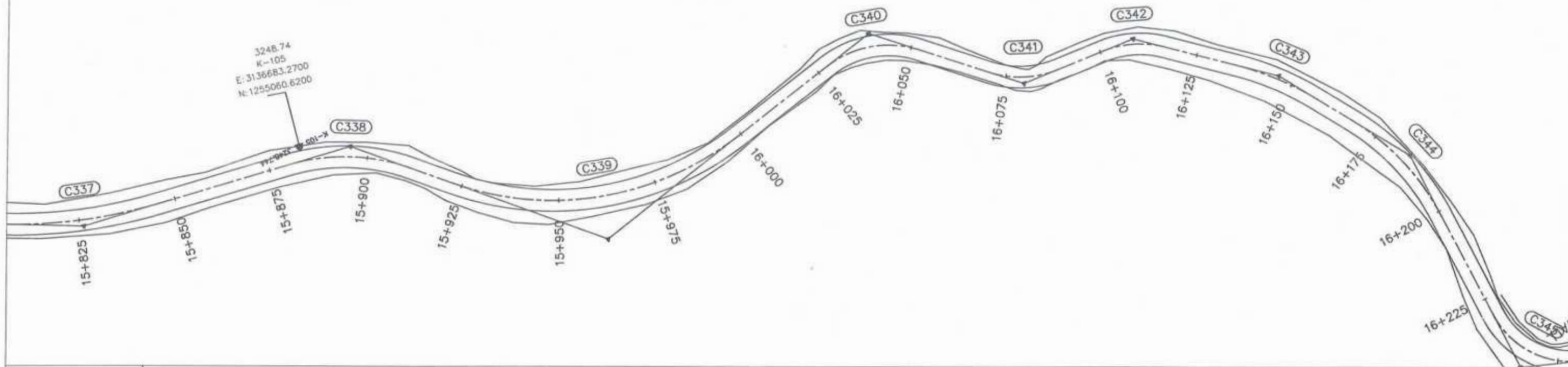


F.R.L	3284.372	3282.276	3280.144	3277.484	3274.632	3272.436	3270.126	3268.388	3266.714	3264.588	3262.155	3260.186	3258.381	3256.463	3254.428	3252.414
N.S.L	3284.372	3282.276	3280.144	3277.484	3274.632	3272.436	3270.126	3268.388	3266.714	3264.588	3262.155	3260.186	3258.381	3256.463	3254.428	3252.414
STATION	15+480	15+500	15+525	15+550	15+575	15+600	15+625	15+650	15+675	15+700	15+725	15+750	15+775	15+800	15+825	15+840

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 Provincial Roads Improvement Project  
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 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 15+480.00 - 15+840.00
		a			DRAWN	IFTIKHAR ABBAS			DATE:	
		b			CHECKED	S.DURRANI			AUG, 2024	
c			APPROVED	AQEEL YOUNIS	CEC/KP-RRDP/HWIN-SWT-T4/PP/ 44					



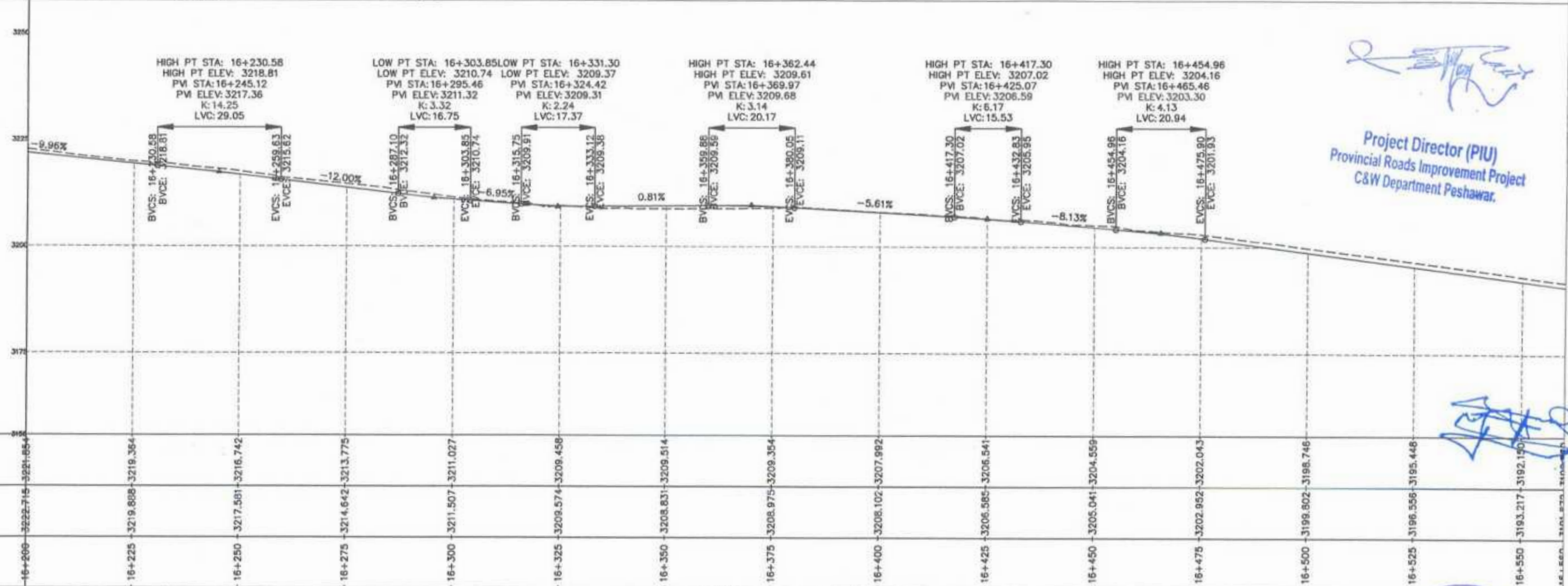
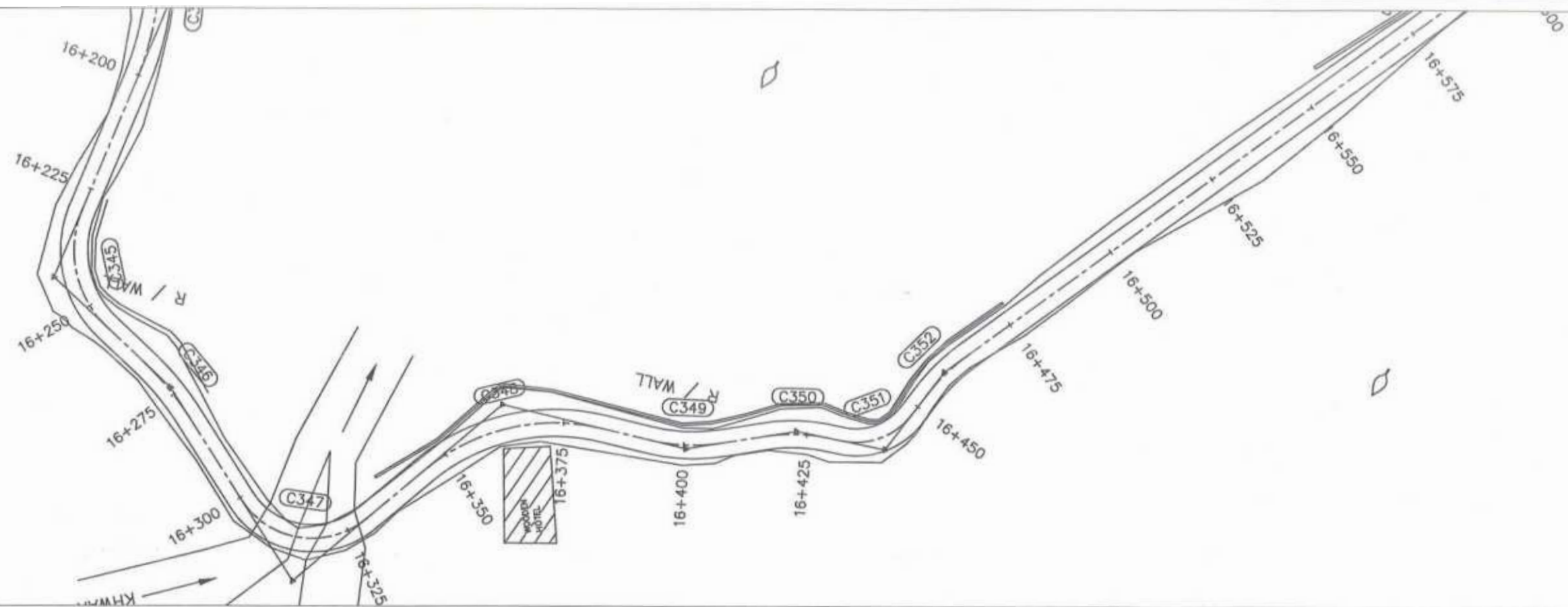


Project Director (PIU)
   
 Provincial Roads Improvement Project
   
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F.R.L	3253.220	3252.359	3249.987	3247.944	3246.195	3244.379	3241.852	3239.246	3237.236	3235.265	3232.833	3230.921	3228.769	3226.564	3224.361
N.S.L	3253.614	3252.892	3250.361	3248.315	3246.903	3244.463	3242.123	3239.812	3237.906	3236.437	3233.551	3231.319	3229.024	3227.167	3224.921
STATION	15+840	15+850	15+875	15+900	15+925	15+950	15+975	16+000	16+025	16+050	16+075	16+100	16+125	16+150	16+175




 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:								
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	DATE:	15+840.00 - 16+200.00			
		a			DRAWN	IFTIKHAR ABBAS										TOURISM ROADS	AUG. 2024.	CEC/KP-RRDP/WIN-SWT-T4/PP/
		b			CHECKED	S.DURRANI												
c			APPROVED	AQEEL YOUNIS														



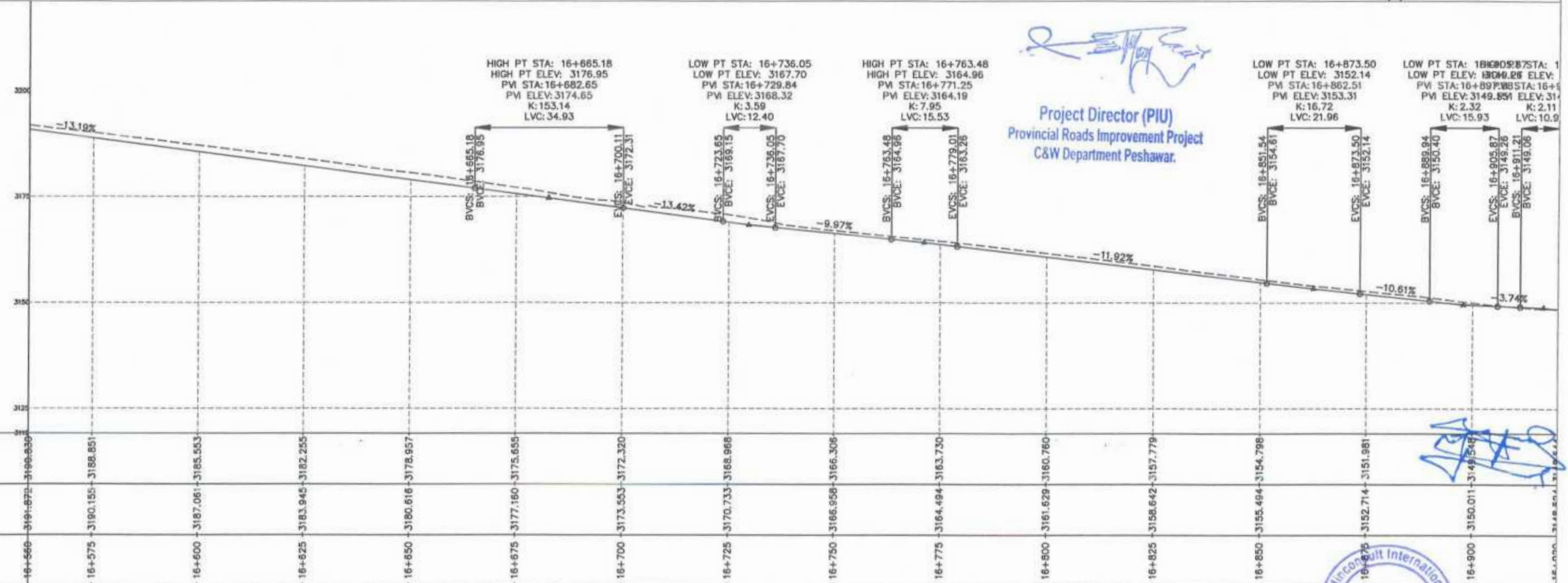
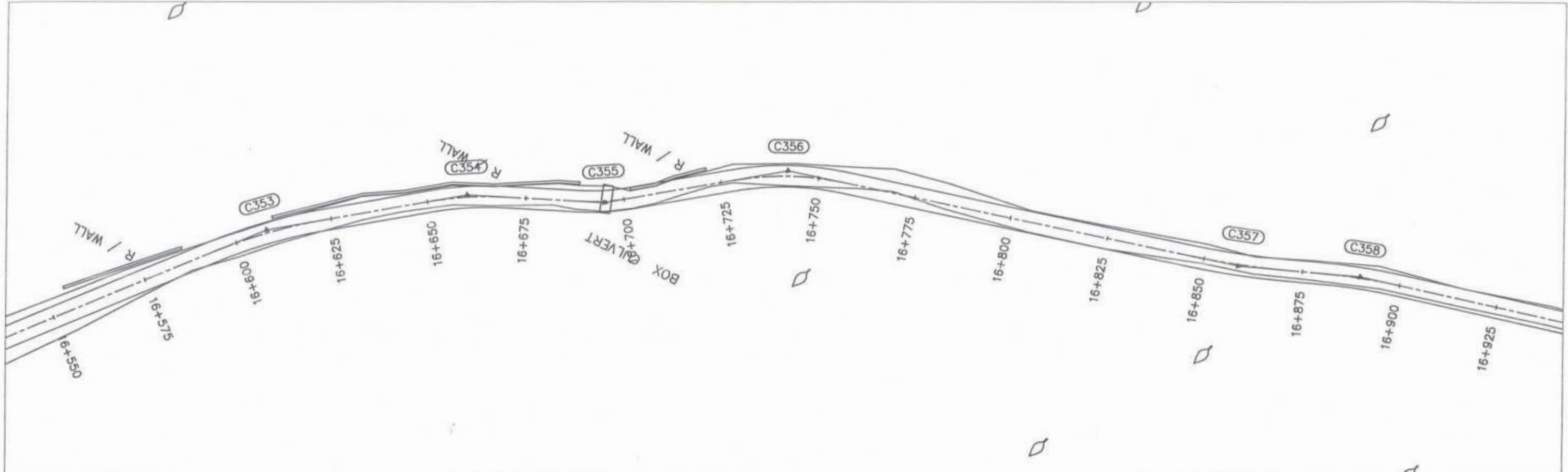


  
 Project Director (PIU)  
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F.R.L	3222.715	3219.808	3219.364	3217.581	3216.742	3214.642	3213.775	3211.507	3211.027	3208.574	3209.458	3208.831	3209.514	3208.975	3209.354	3208.102	3207.992	3206.541	3205.041	3204.559	3202.952	3202.043	3198.802	3196.746	3195.448	3193.217	3192.190
N.S.L	3222.715	3219.808	3219.364	3217.581	3216.742	3214.642	3213.775	3211.507	3211.027	3208.574	3209.458	3208.831	3209.514	3208.975	3209.354	3208.102	3207.992	3206.541	3205.041	3204.559	3202.952	3202.043	3198.802	3196.746	3195.448	3193.217	3192.190
STATION	16+200	16+225	16+250	16+275	16+300	16+325	16+350	16+375	16+400	16+425	16+450	16+475	16+500	16+525	16+550	16+575											

 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES		PROJECT:	ROAD NAME	SCALE:	SHEET CONTENT					
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000		
		1			DRAWN	IFTIKHAR ABBAS								TOURISM ROADS	DATE: AUG. 2024.
		2			CHECKED	S.DURRANI									
3			APPROVED	AQEEL YOUNIS	46										



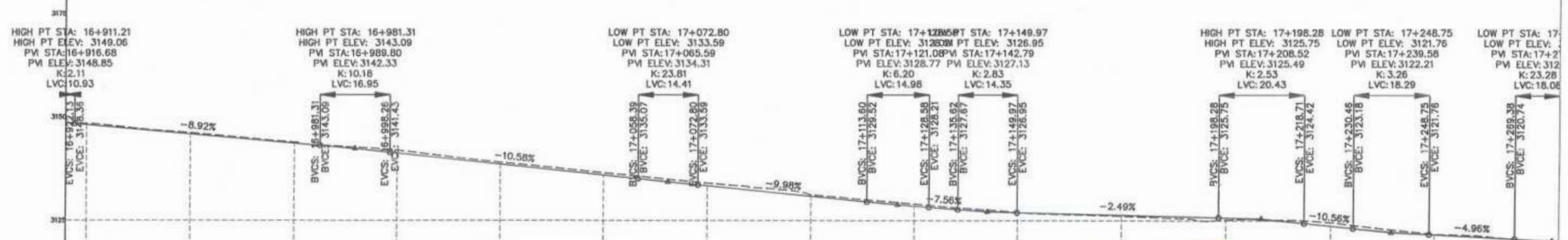
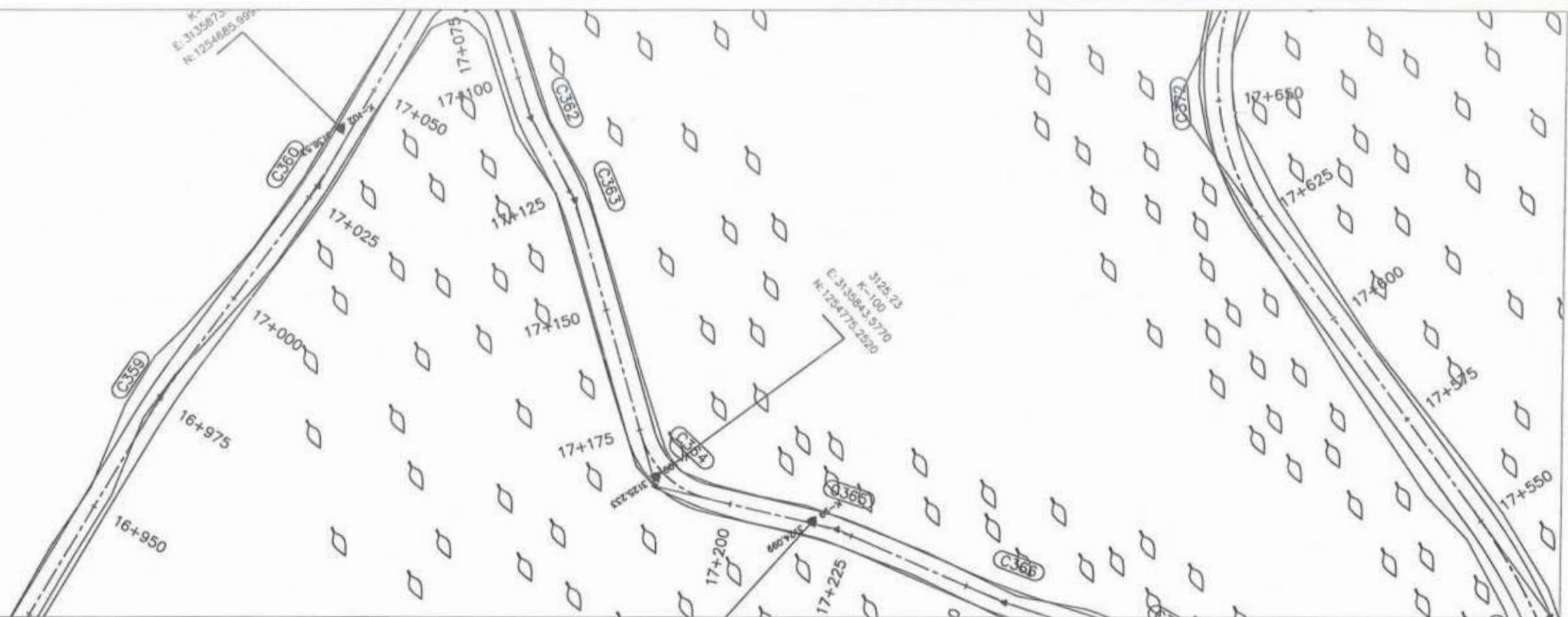


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 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	3190.000	3188.851	3185.553	3182.255	3178.957	3175.659	3172.320	3168.988	3166.306	3163.750	3160.760	3157.779	3154.798	3151.981	3149.154	3146.222
N.S.L	3191.872	3190.155	3187.061	3183.945	3180.616	3177.160	3173.553	3170.733	3166.958	3164.494	3161.629	3158.642	3155.494	3152.714	3150.011	3147.222
STATION	16+550	16+575	16+600	16+625	16+650	16+675	16+700	16+725	16+750	16+775	16+800	16+825	16+850	16+875	16+900	

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:							
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE 16+550.00 - 16+920.00			
		a			DRAWN	IFTIKHAR ABBAS									TOURISM ROADS	AUG. 2024	CEC/KP-RRDP/HWN-SWT-T4/PP/
		b			CHECKED	S.DURRANI											
c			APPROVED	AQEEL YOUNIS													





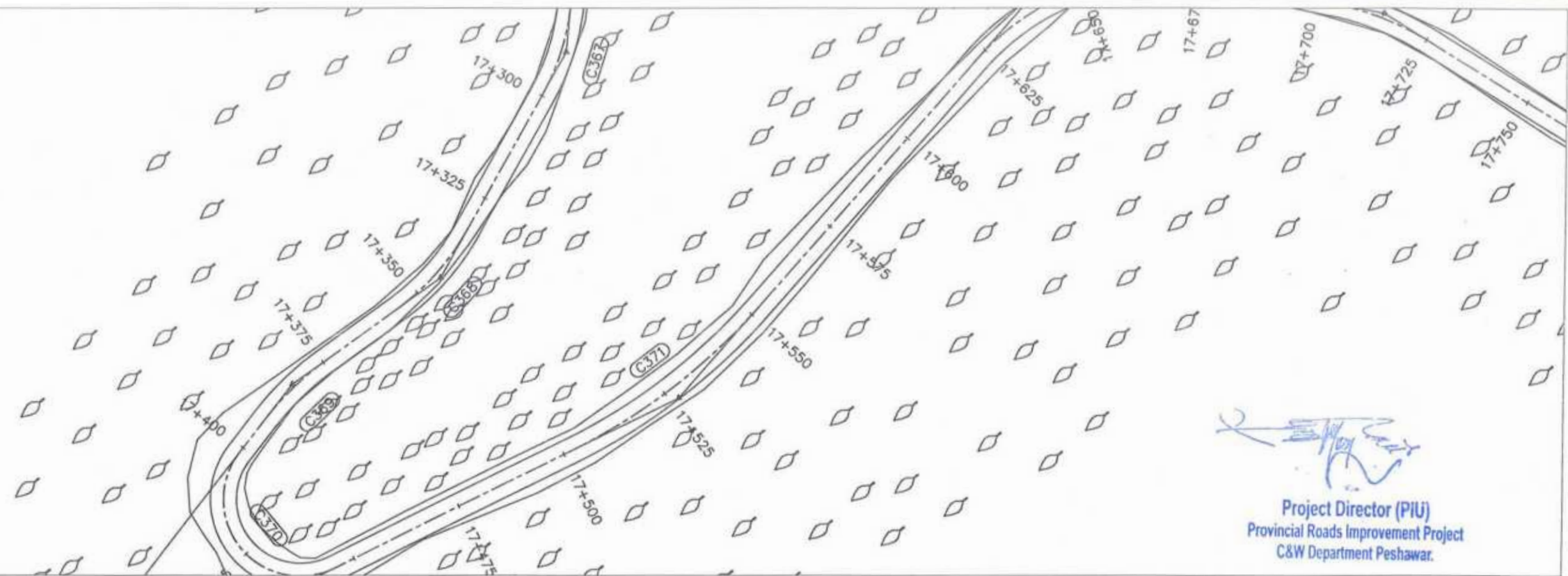
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.


*[Signature]*

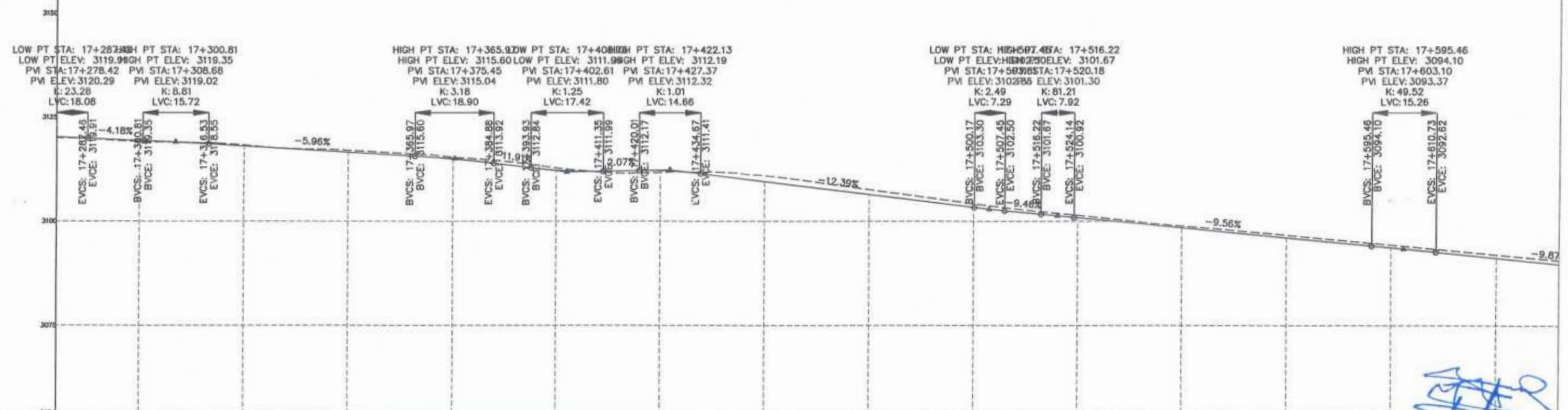
STATION	16+950	16+975	17+000	17+025	17+050	17+075	17+100	17+125	17+150	17+175	17+200	17+225	17+250	17+275
N.S.L	3148.52	3148.377	3143.903	3139.062	3136.496	3134.052	3131.263	3128.986	3127.023	3126.114	3125.136	3123.752	3121.618	3120.255
F.R.L	3148.544	3148.109	3143.650	3138.605	3135.959	3133.371	3130.876	3128.487	3126.952	3125.328	3125.699	3123.752	3121.695	3120.46

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58825-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	1:1000 1:1000 PLAN & PROFILE 16+920.00 - 17+280.00	AUG, 2024 CEC/KP-RRDP/H/W/N-SWT-T4/PP/
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
c			APPROVED	AQEEL YOUNIS						
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA DESIGN CONSULTANT: (MIN - JV - CEC) PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP SCALE: 1:1000 SHEET CONTENT: PLAN & PROFILE DATE: AUG, 2024 SHEET NO: 48										









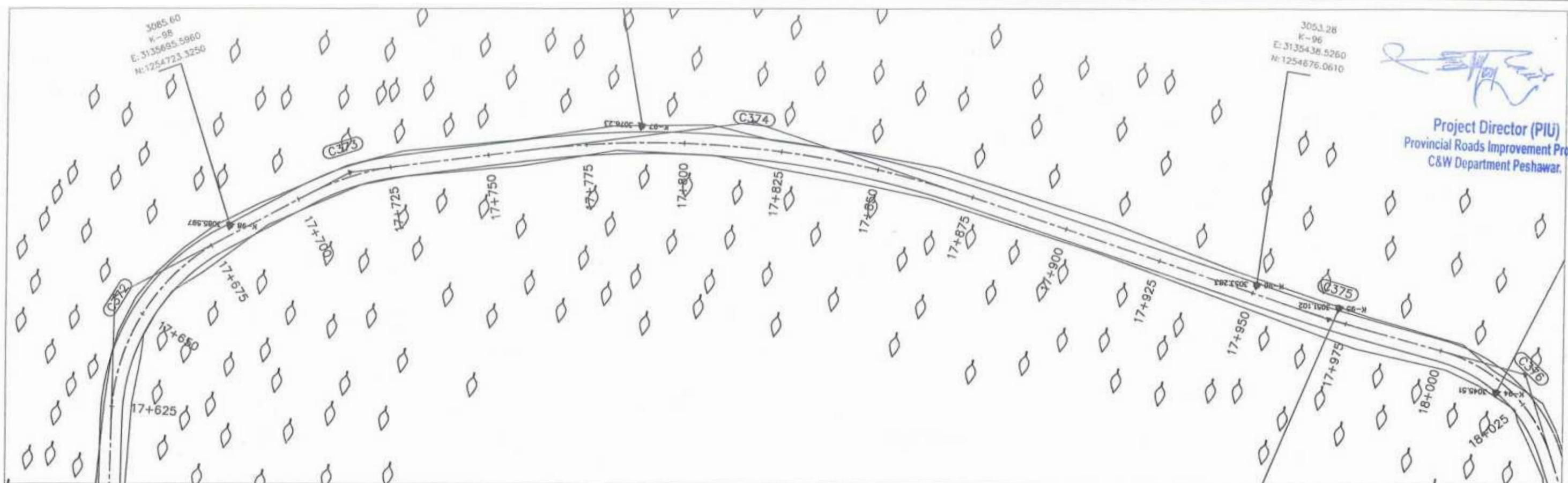
  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



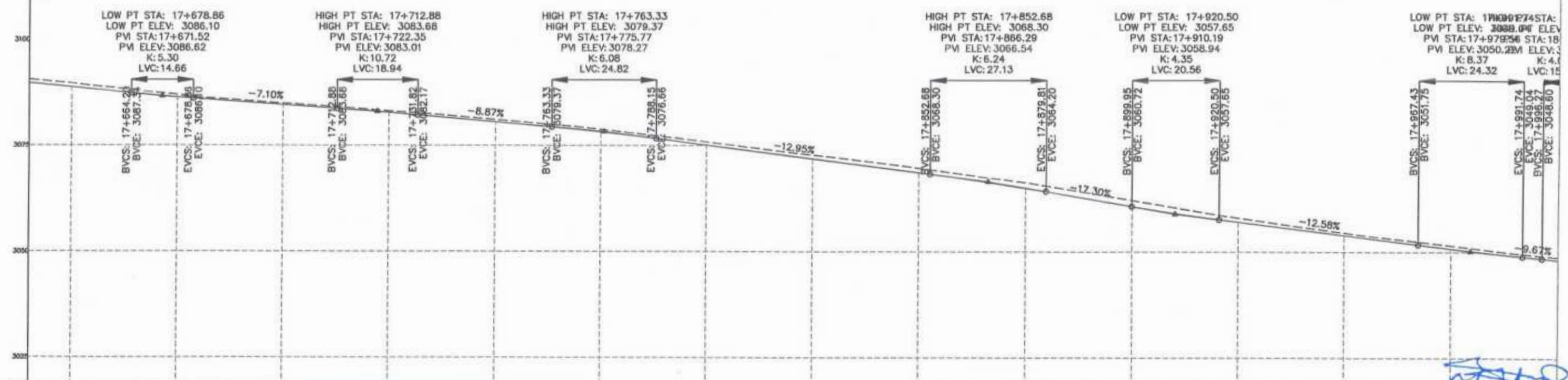
F.R.L	312.000	311.987	311.935	311.809	311.558	311.439	311.265	311.147	310.914	310.647	310.319	310.087	309.847	309.607	309.365	309.129
N.S.L	312.000	311.987	311.935	311.809	311.558	311.439	311.265	311.147	310.914	310.647	310.319	310.087	309.847	309.607	309.365	309.129
STATION	17+280	17+300	17+325	17+350	17+375	17+400	17+425	17+450	17+475	17+500	17+525	17+550	17+575	17+600	17+625	17+840

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58535-F) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0 DATE: AUG, 2024 DESCRIPTION: Tender Drawings.	NAMES: G.DESIGNED: S.DURRANI DRAWN: IFTIKHAR ABBAS CHECKED: S.DURRANI APPROVED: AQEEL YOUNIS	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG, 2024	SHEET CONTENT:  PLAN & PROFILE 17+280.00 - 17+840.00 CEC/KP-RRDP/RWN-SWT-T4/PIU 49
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Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



F.R.L	3066.560-3069.720	3089.654-3088.742	3087.011-3086.385	3084.959-3084.594	3083.118-3082.750	3081.103-3080.554	3078.777-3078.224	3075.899-3075.129	3072.802-3071.890	3068.714-3068.651	3066.326-3065.015	3062.159-3060.707	3058.042-3057.081	3054.526-3053.937	3051.554-3050.821	3048.600-3048.600
N.S.L																
STATION	17+640	17+650	17+675	17+700	17+725	17+750	17+775	17+800	17+825	17+850	17+875	17+900	17+925	17+950	17+975	18+000

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED					S.DURRANI
		a			DRAWN					IFTIKHAR ABBAS
		b			CHECKED					S.DURRANI
			c		APPROVED	AQEEL YOUNIS				

KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)

N-SWT-T4  
 UTHROR TO THAL VIA BADGOI TOP

TOURISM ROADS

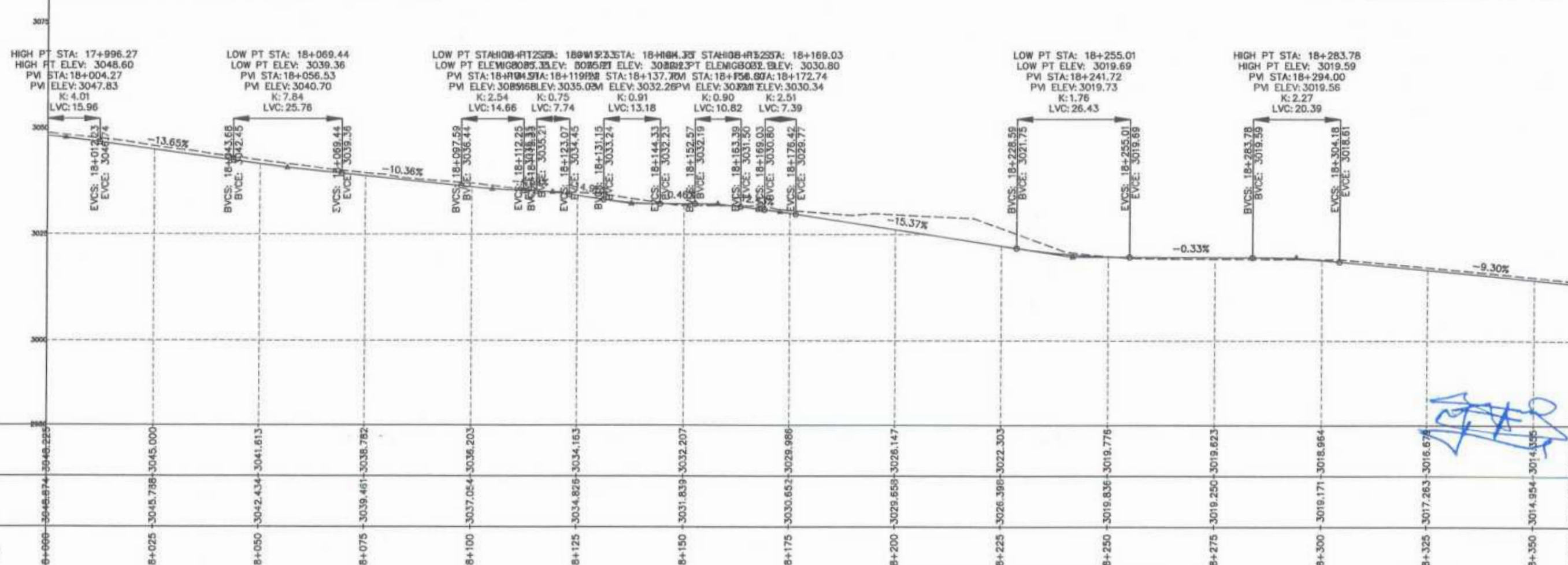
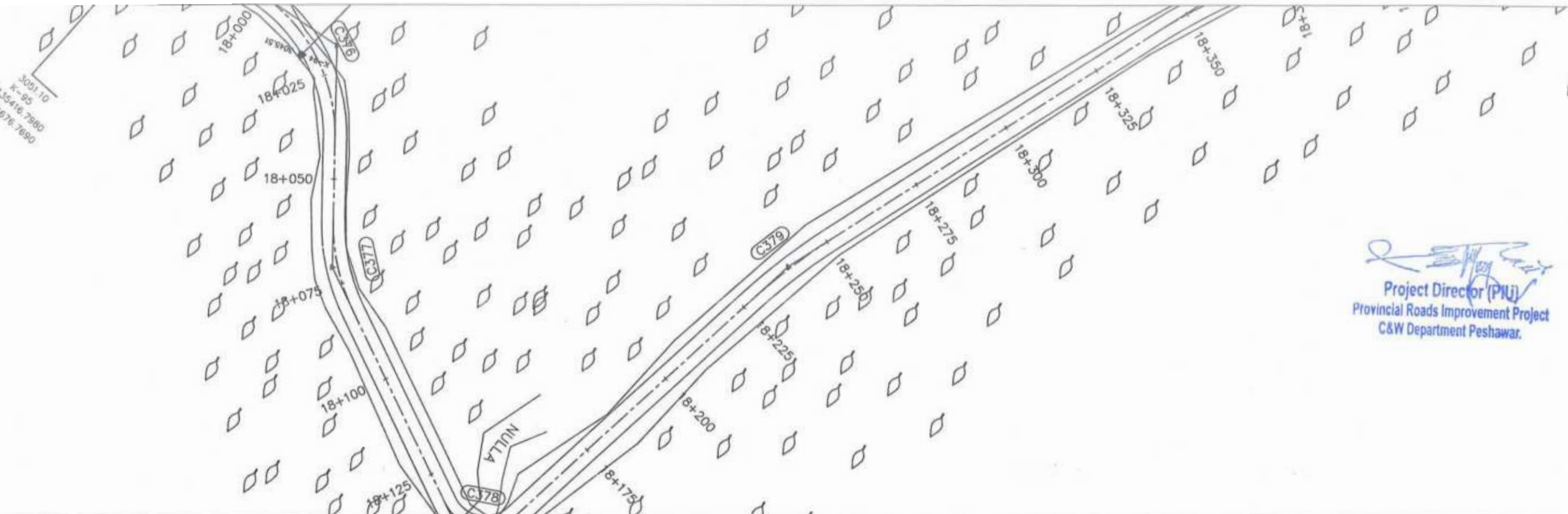
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DATE: AUG. 2024

CEC/MP/RRDP/HWIN-SW-T4/PP/ 50

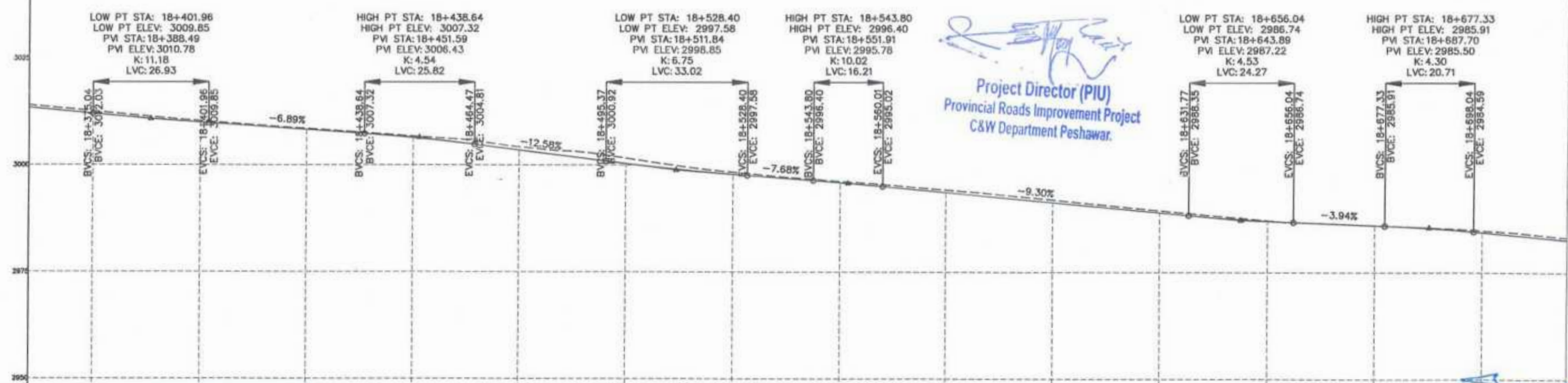
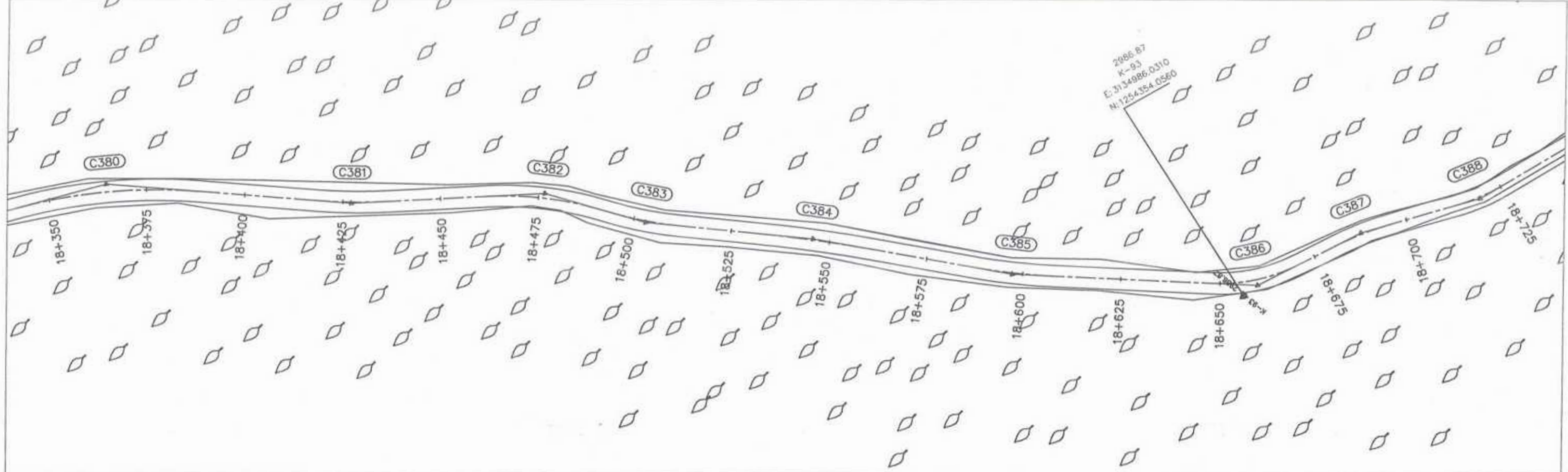


Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA</p> <p>COMMUNICATION &amp; WORKS DEPARTMENT</p> <p>PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58635-P)</p> <p>J.V.</p> <p>CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	<p>PLAN &amp; PROFILE 18+000.00 - 18+350.00</p> <p>DATE: AUG. 2024.</p> <p>CEC/KP-RRDP/WIN-SWT-T4/PP/ 51</p>	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP		H=1:1000 V=1:1000
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
c			APPROVED	AQEEL YOUNIS						



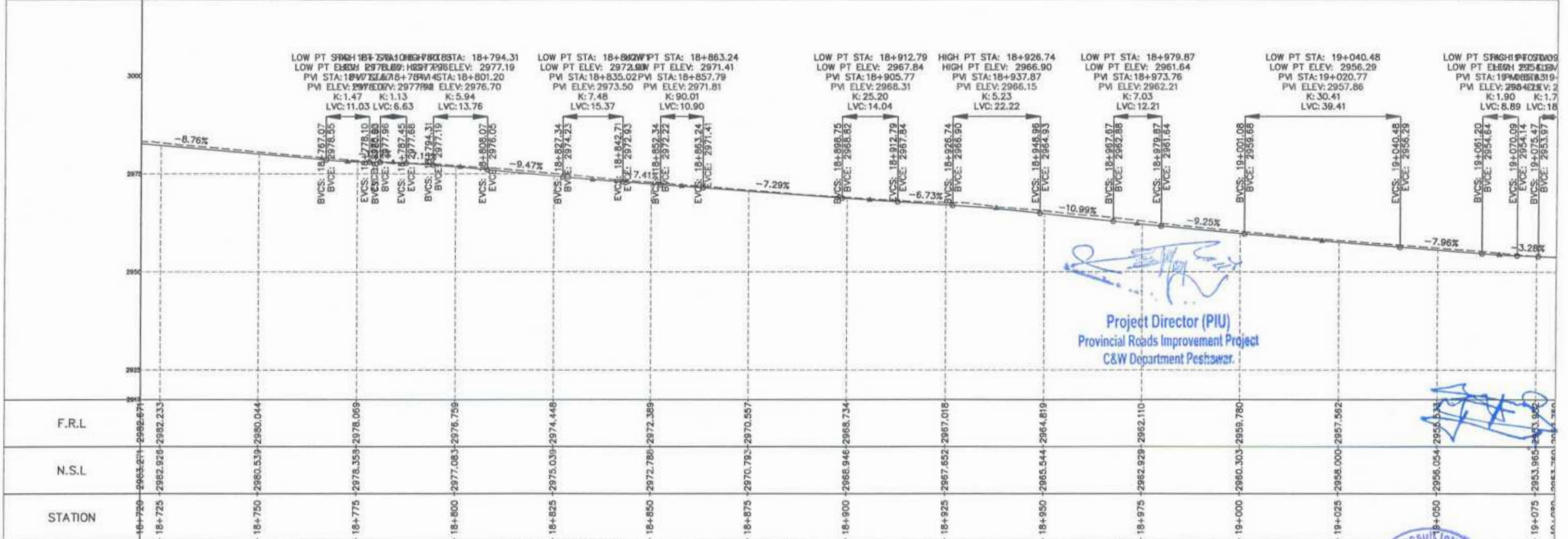
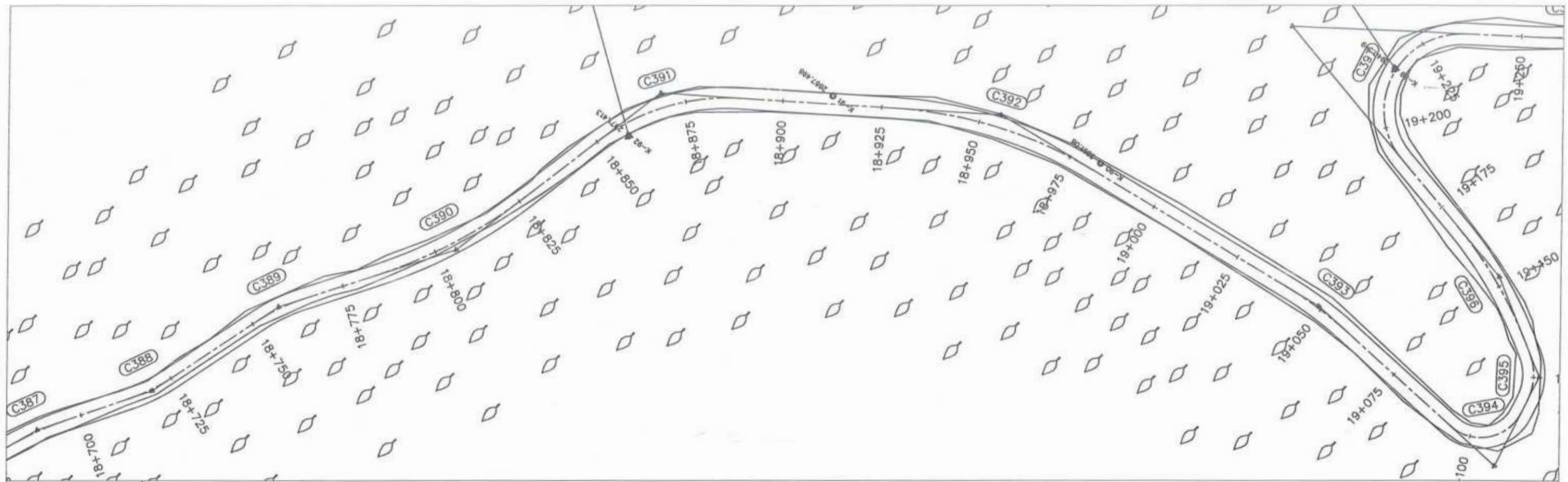


*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L.	3012.031	3009.986	3008.262	3006.399	3003.487	3000.358	2997.851	2995.903	2993.628	2991.304	2988.979	2987.023	2985.999	2984.423
N.S.L.	3012.618	3010.331	3008.522	3006.773	3004.241	3001.634	2998.360	2996.243	2994.243	2991.925	2989.456	2987.140	2985.017	2984.829
STATION	18+375	18+400	18+425	18+450	18+475	18+500	18+525	18+550	18+575	18+600	18+625	18+650	18+675	18+700

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	Tender Drawings	G.DESIGNED	S.DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000 V=1:1000 DATE: AUG, 2024	SHEET CONTENT: PLAN & PROFILE 18+360.00 - 18+720.00 CEC/RRDP/HWN-SWT-T4/PP/1
		a			DRAWN	IFTIKHAR ABBAS			
		b			CHECKED	S.DURRANI			
		c			APPROVED	AQEEL YOUNIS			

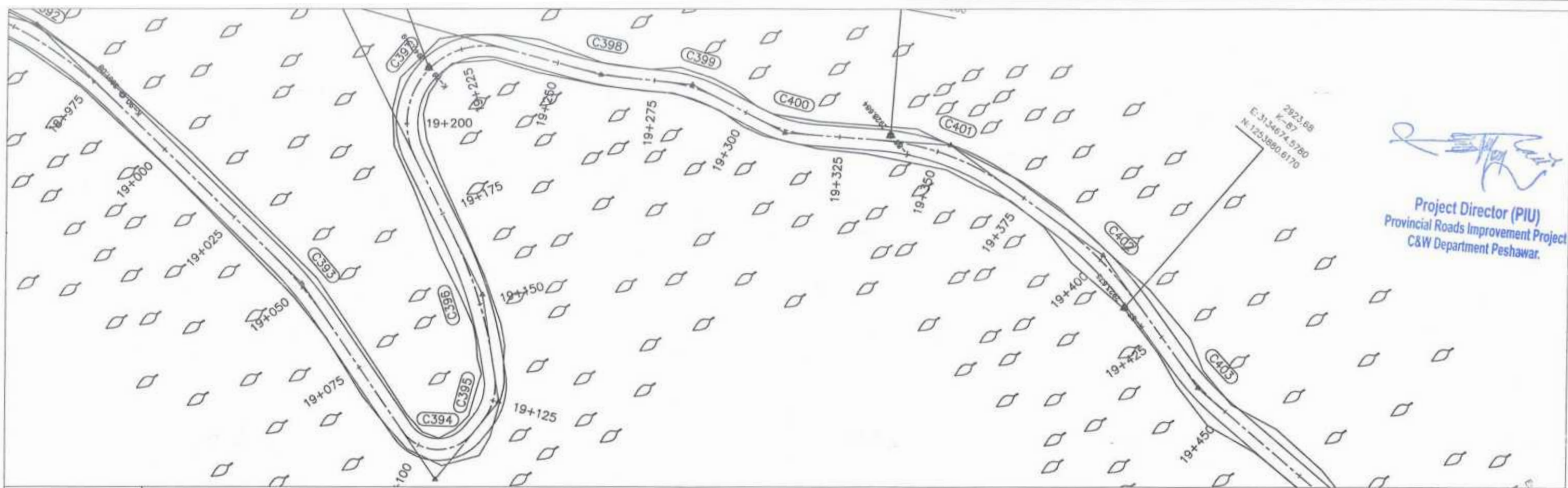




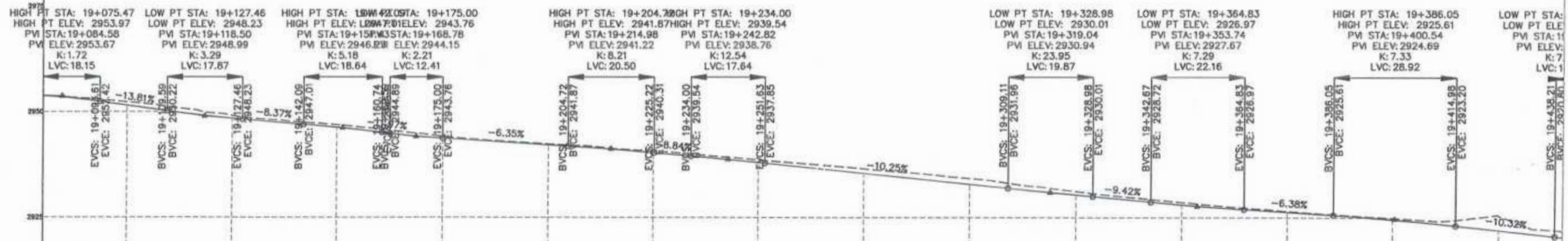
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024	PLAN & PROFILE 18+720.00 - 19+080.00 CECRR-RRDP/PIU/N-SWT-T4/PP/1 53
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YOUNIS				









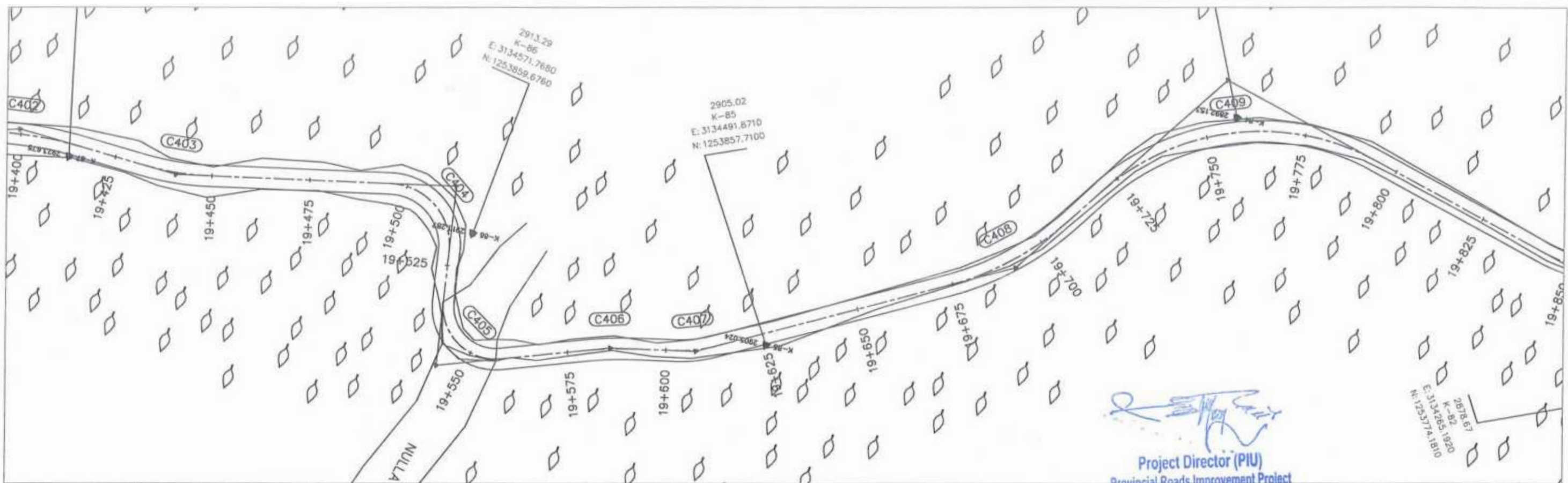
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



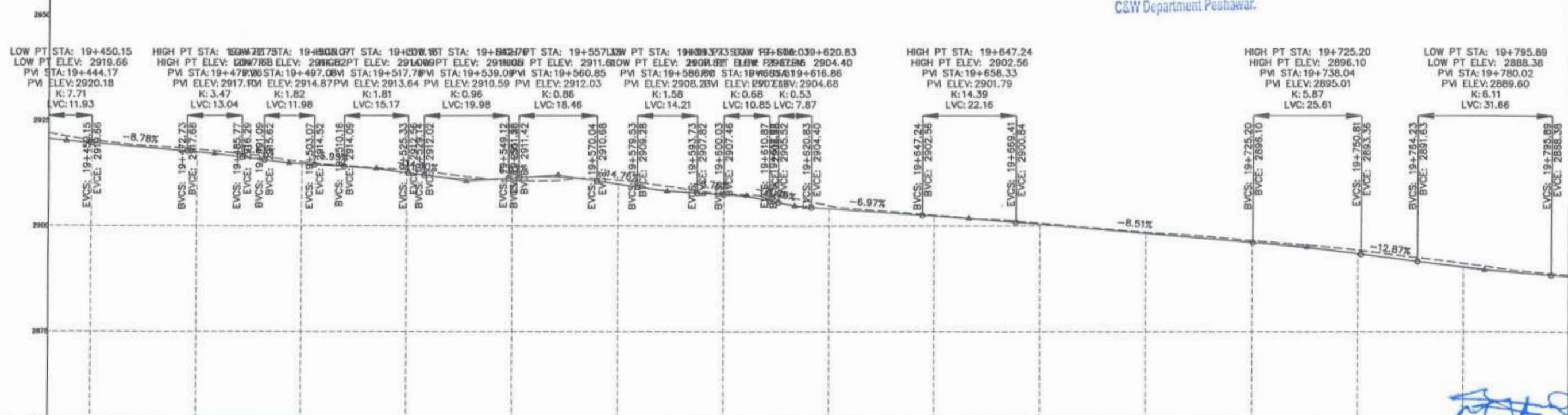
STATION	F.R.L	N.S.L
19+000	2955.760	2955.760
19+100	2952.342	2951.539
19+125	2949.135	2948.450
19+150	2946.925	2946.287
19+175	2944.222	2943.755
19+200	2942.411	2942.169
19+225	2940.889	2940.332
19+250	2938.652	2938.019
19+275	2936.518	2935.457
19+300	2934.246	2932.895
19+325	2931.211	2930.385
19+350	2928.638	2928.064
19+375	2926.539	2925.318
19+400	2924.964	2924.591
19+425	2925.598	2922.164
19+450	2925.598	2920.811

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58535-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES	PROJECT	ROAD NAME	SCALE	SHEET CONTENT		
		a	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI						
		b			DRAWN IFTIKHAR ABBAS						
		c			CHECKED S.DURRANI						
					APPROVED	AGEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG, 2024.	 PLAN & PROFILE 19+080.00 - 19+440.00 CEC/KP-RRDP/N-SWT-T4/PP





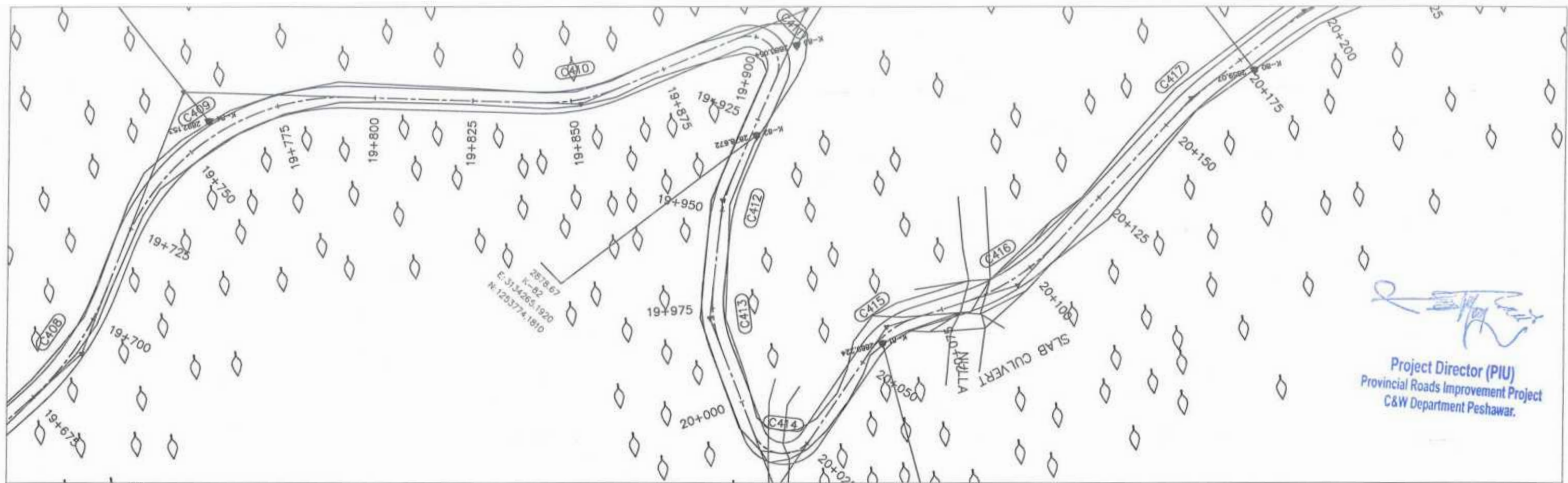
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



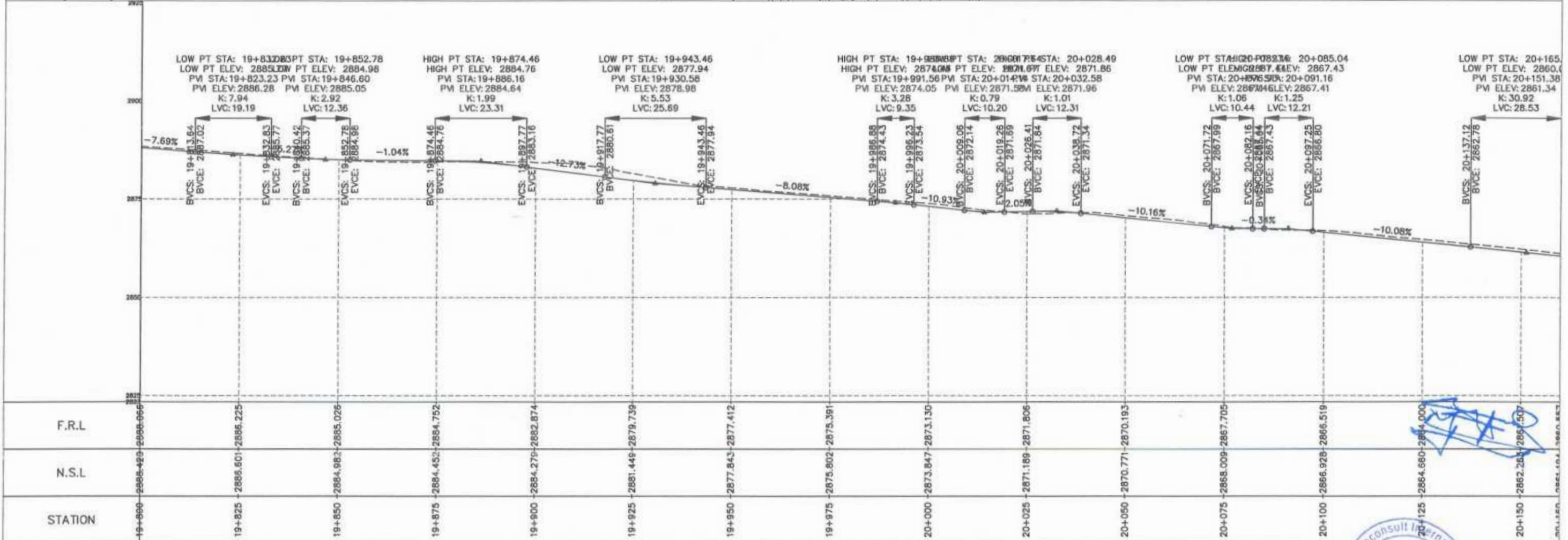
STATION	N.S.L.	F.R.L.
19+440	2922.065	2920.617
19+450	2920.339	2919.673
19+475	2918.172	2917.472
19+500	2915.217	2914.725
19+525	2913.432	2912.609
19+550	2910.722	2911.316
19+575	2910.862	2909.945
19+600	2907.682	2907.462
19+625	2904.827	2904.108
19+650	2902.584	2902.364
19+675	2900.673	2900.368
19+700	2898.495	2898.241
19+725	2896.555	2896.114
19+750	2894.297	2893.465
19+775	2891.185	2890.745




CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:	
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000	PLAN & PROFILE 19+440.00 - 19+800.00	
		a			DRAWN IFTIKHAR ABBAS					DATE:
		b			CHECKED S.DURRANI					AUG, 2024.
		c			APPROVED AQEEL YOUNIS					CEC/KP-RRDP/THAL-SWT-T4/PIU



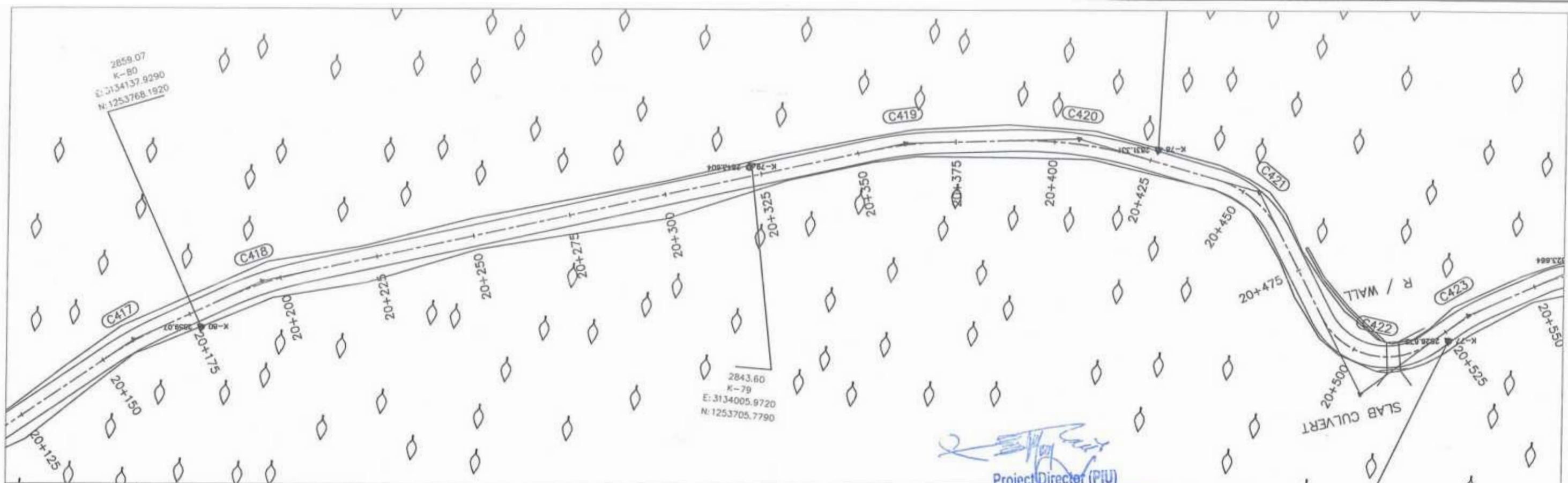


  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

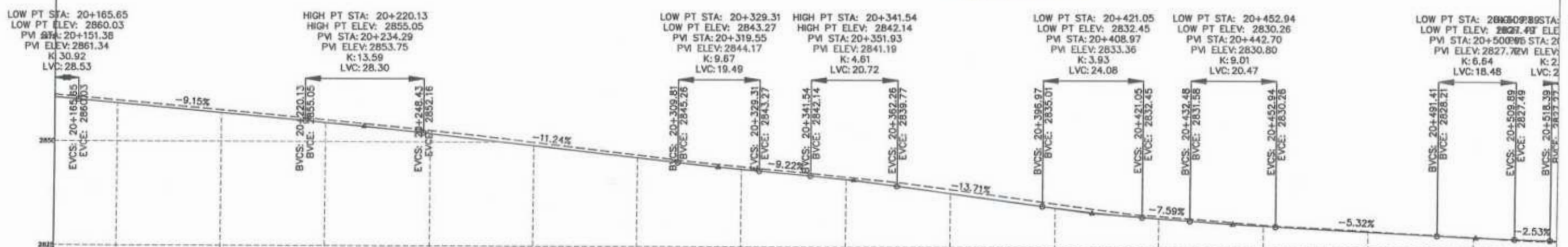


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE:	PLAN & PROFILE 19+800.00 - 20+160.00 AUG. 2024.
		e			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S.DURRANI				
		c			APPROVED AQEEL YOUNIS				









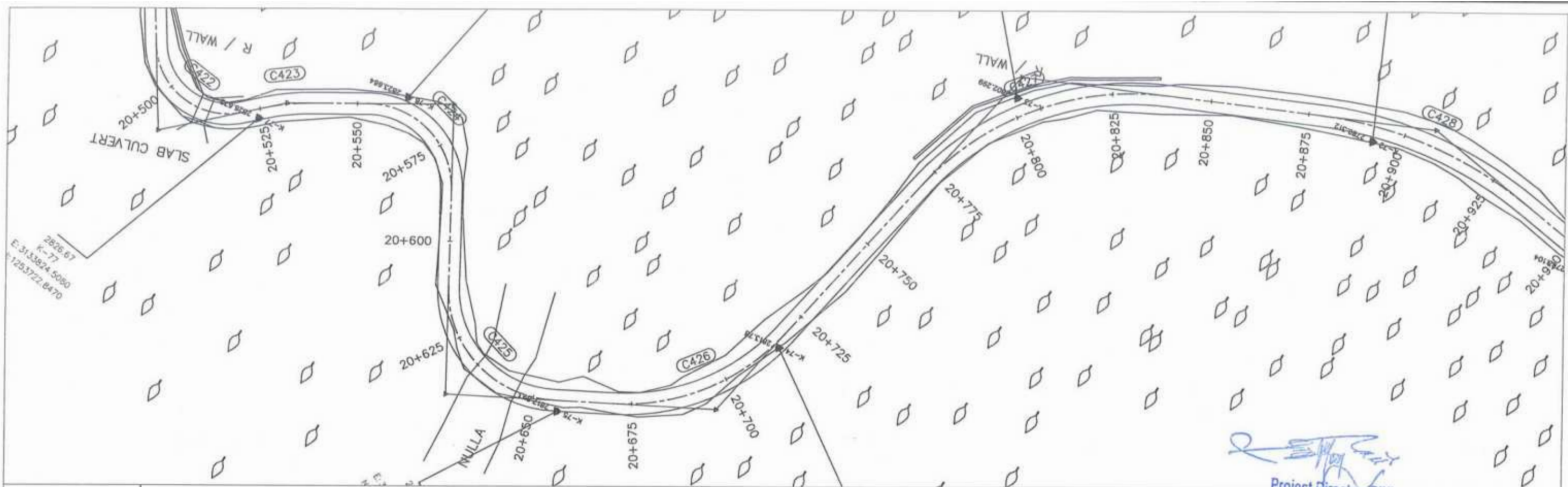
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



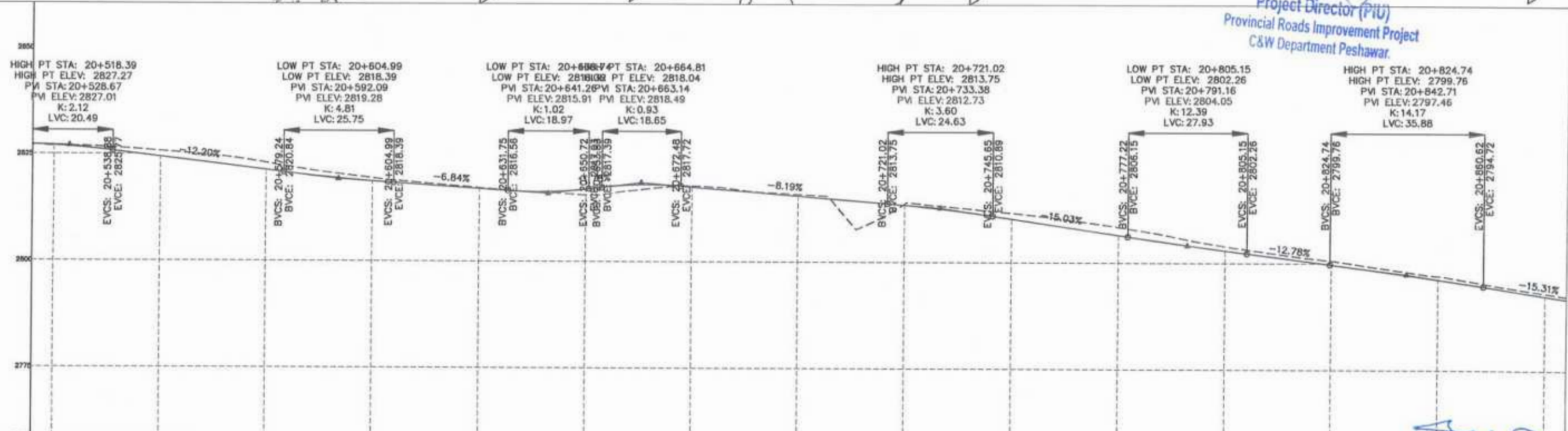
STATION	N.S.L	F.R.L
20+160	2856.19	2856.55
20+175	2859.84	2859.17
20+200	2857.56	2856.99
20+225	2855.24	2854.59
20+250	2852.76	2851.96
20+275	2849.96	2849.17
20+300	2847.01	2846.36
20+325	2844.29	2843.67
20+350	2841.90	2841.28
20+375	2839.00	2838.02
20+400	2835.60	2834.60
20+425	2832.60	2832.14
20+450	2830.66	2830.42
20+475	2829.27	2829.06
20+500	2827.92	2827.87
20+510	2827.39	2827.33

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024.	 PLAN & PROFILE 20+160.00 - 20+520.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
c			APPROVED	AQEEL YOUNIS						





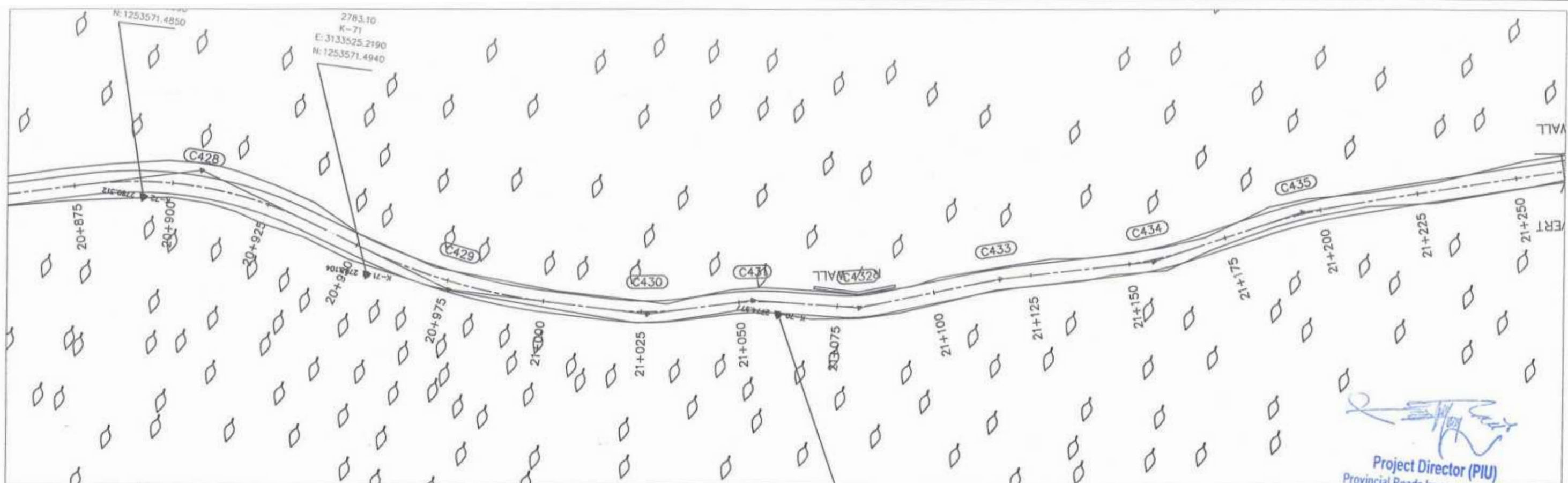
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



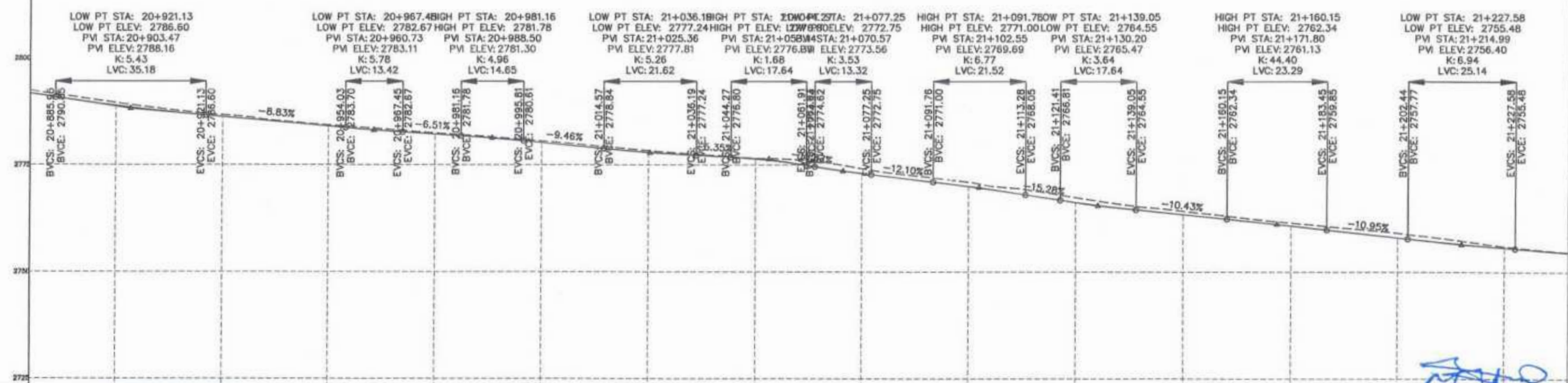
F.R.L	2827.225	2824.410	2821.361	2818.761	2817.024	2816.945	2817.518	2815.470	2813.400	2810.237	2806.480	2802.932	2799.727	2796.309	2792.622
N.S.L	2827.660	2826.898	2825.761	2823.052	2821.361	2819.501	2818.761	2817.241	2816.470	2813.619	2810.237	2808.377	2806.480	2803.918	2800.640
STATION	20+525	20+550	20+575	20+600	20+625	20+650	20+675	20+700	20+725	20+750	20+775	20+800	20+825	20+850	20+875

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE: SHEET CONTENT						
		0	AUG, 2024	Tender Drawings.	G.DESIGNED				S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1000 V=1000 DATE		
		a			DRAWN				IFTIKHAR ABBAS				TOURISM ROADS	AUG 2024
		b			CHECKED				S. DURRANI					
c			APPROVED	AQEEL YOUNIS	CEC/KP-RRDP/HWN-SWT-T4/PP/									





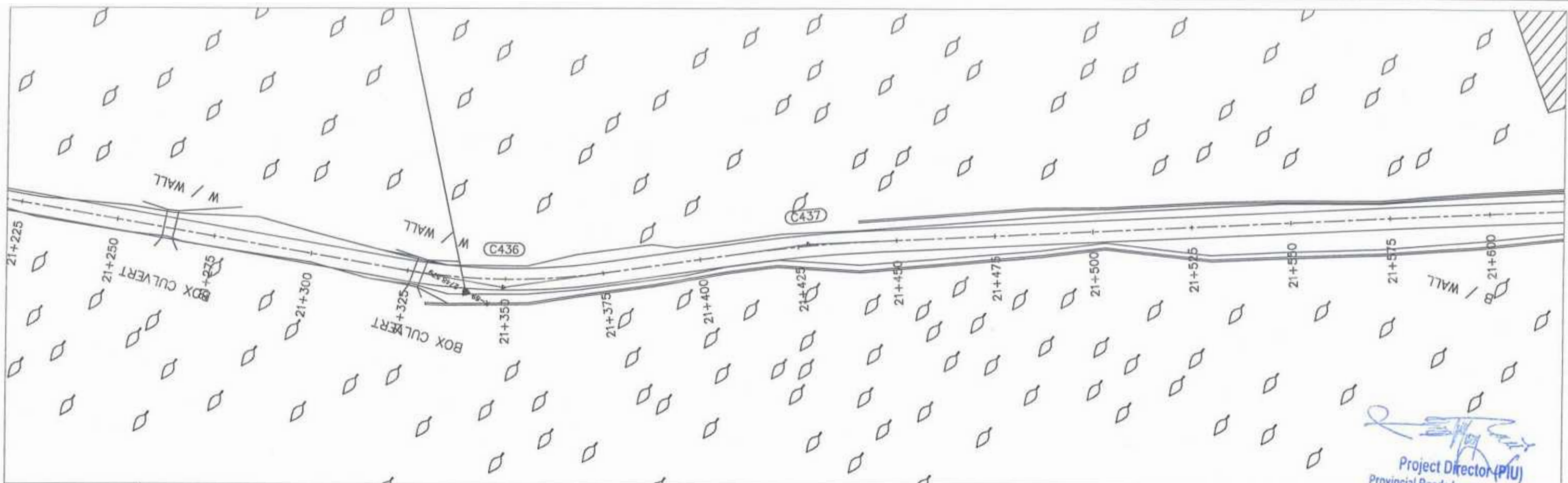
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



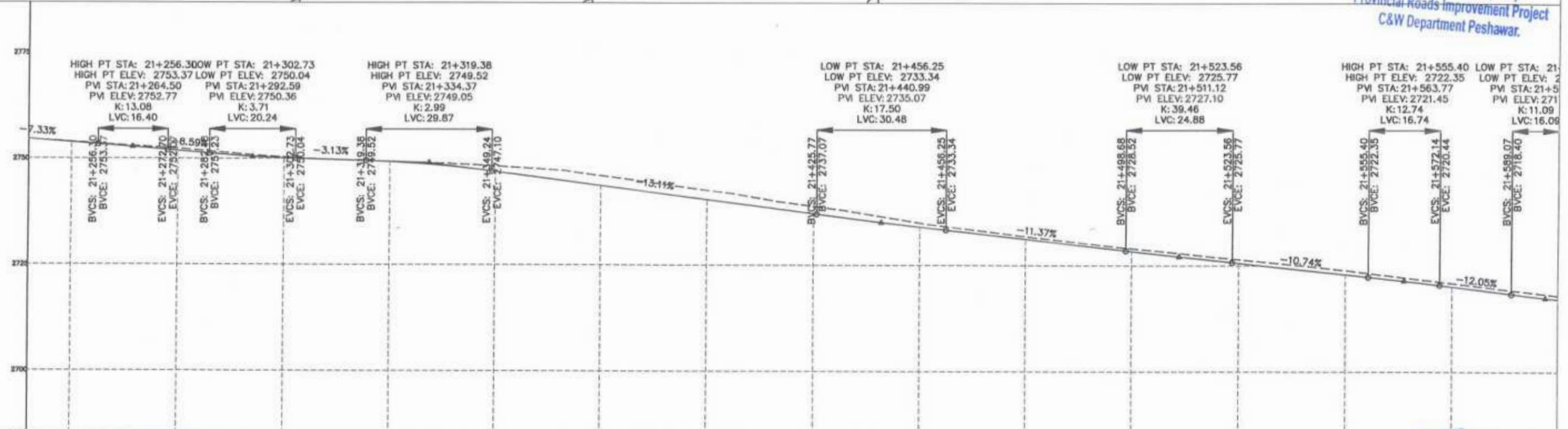
F.R.L	2792.413	2791.756	2788.878	2786.263	2784.056	2782.181	2780.214	2777.953	2776.399	2773.033	2769.951	2766.281	2763.404	2760.772	2756.617	2755.48
N.S.L	2792.413	2789.549	2786.878	2784.056	2782.181	2780.214	2777.953	2776.399	2773.033	2769.951	2766.281	2763.404	2760.772	2756.617	2755.48	2755.48
STATION	20+880	20+900	20+925	20+950	20+975	21+000	21+025	21+050	21+075	21+100	21+125	21+150	21+175	21+200	21+225	21+250

GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		a	AUG.2024	Tender Drawings.	G.DESIGNED					S.DURRANI
		b			DRAWN					IFTIKHAR ABBAS
		c			CHECKED					S.DURRANI
					APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG, 2024	PLAN & PROFILE 20+880.00 - 21+240.00 CEC/KP-RRDP/N-SWT-T4/PIU
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)										





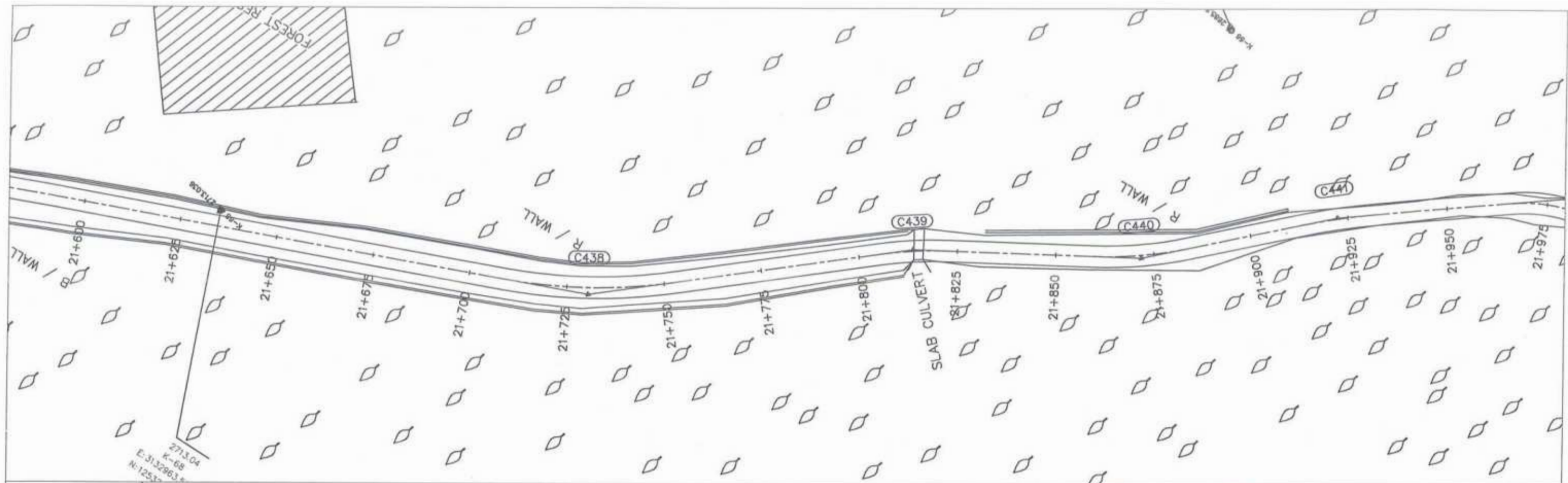
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



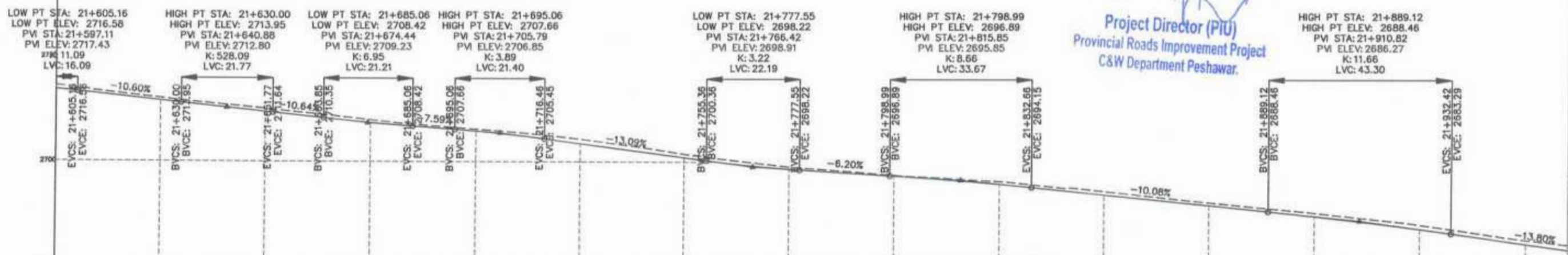
F.R.L	2754.611	2754.566	2753.931	2753.833	2752.399	2751.868	2750.138	2749.292	2748.308	2747.003	2743.725	2740.449	2738.913	2737.171	2734.062	2731.210	2728.388	2725.614	2722.930	2720.004	2717.100
N.S.L	2754.611	2754.566	2753.931	2753.833	2752.399	2751.868	2750.138	2749.292	2748.308	2747.003	2743.725	2740.449	2738.913	2737.171	2734.062	2731.210	2728.388	2725.614	2722.930	2720.004	2717.100
STATION	21+240	21+250	21+275	21+300	21+325	21+350	21+375	21+400	21+425	21+450	21+475	21+500	21+525	21+550	21+575	21+600					

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:									
		d	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	DATE:	AUG. 2024				
		a			DRAWN	IFTIKHAR ABBAS										TOURISM ROADS	21+240.00 - 21+600.00	CEC/KP-RRDP/HWN-SWT-T4/PP/	60
		b			CHECKED	S.DURRANI													
c			APPROVED	AQEEL YOUNIS															





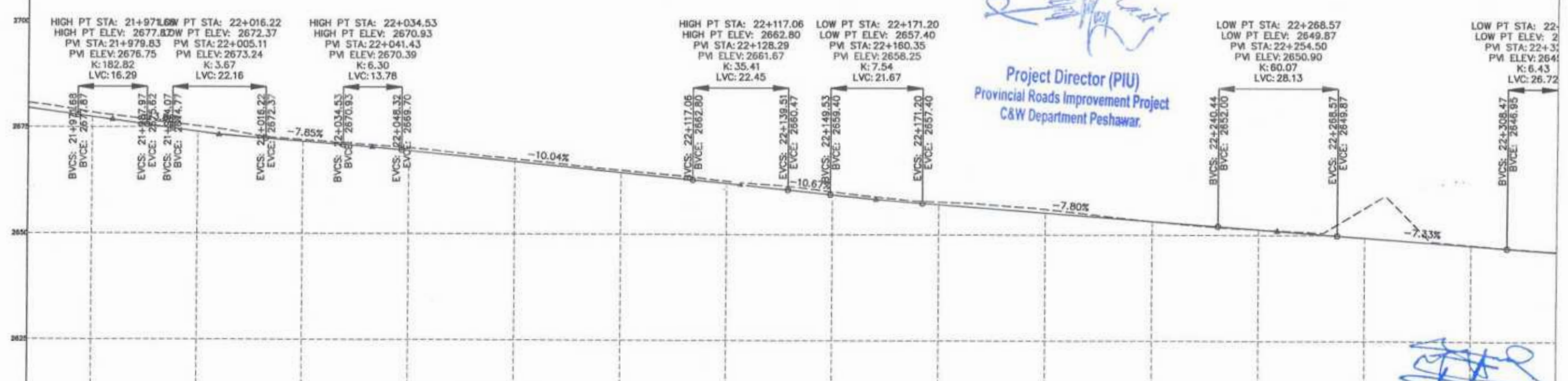
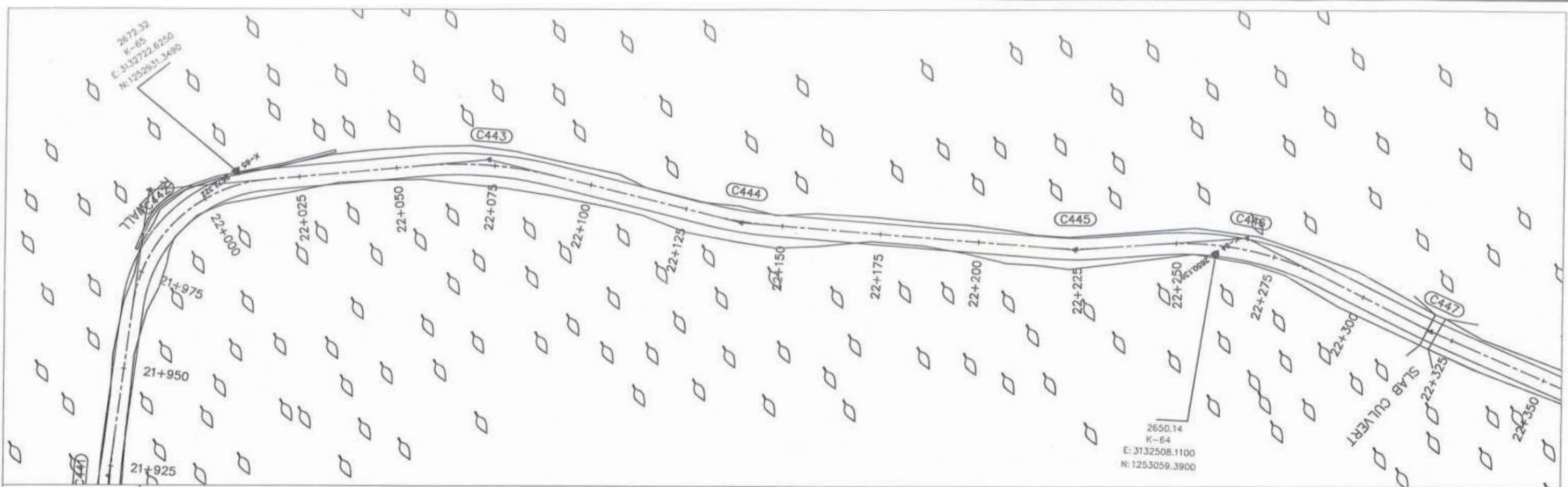
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



F.R.L	2716.027	2717.140	2718.070	2714.479	2711.825	2709.255	2707.255	2704.331	2701.058	2698.386	2696.627	2694.889	2692.402	2690.681	2687.310	2684.289	2680.864
N.S.L	2716.027	2715.070	2712.544	2711.825	2709.919	2709.255	2707.714	2707.255	2701.883	2701.058	2697.019	2696.627	2693.228	2692.402	2688.133	2687.310	2681.846
STATION	21+600	21+625	21+650	21+675	21+700	21+725	21+750	21+775	21+800	21+825	21+850	21+875	21+900	21+925	21+950		

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58935-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:		
		0	AUG. 2024	Tender Drawings.	G.DESIGNED	E. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000		
		0			DRAWN	IFTIKHAR ABBAS			DATE:		AUG. 2024
		b			CHECKED	S. DURRANI			CEC/KP-RRDP/PIU/N-SWT-T4/PP/		
		e			APPROVED	AQEEL YOUNIS			61		



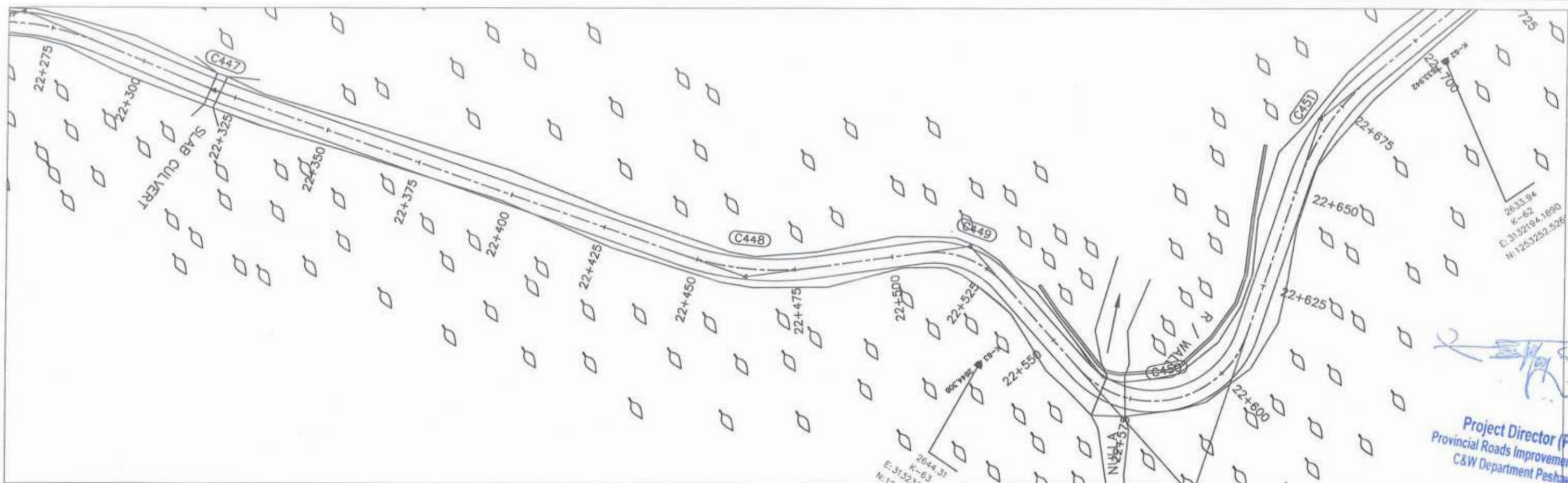


*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

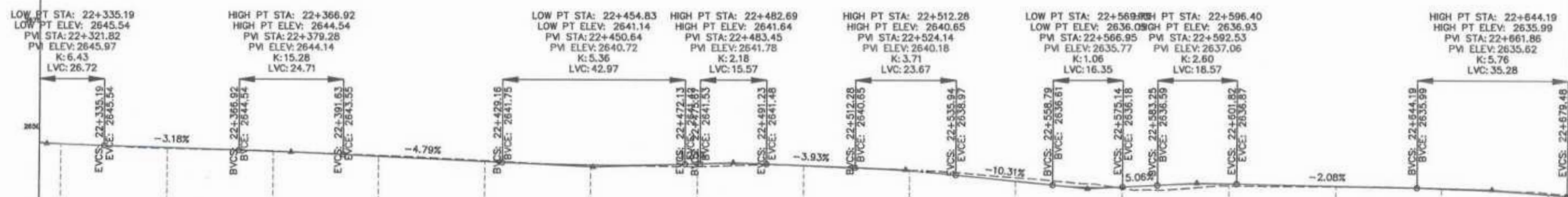
F.R.L	2666.719	2678.477	2677.415	2675.310	2673.997	2671.678	2670.234	2669.528	2667.018	2665.509	2662.990	2661.990	2659.352	2657.105	2655.155	2653.205	2651.262	2649.400	2647.587
N.S.L	2666.719	2678.477	2677.415	2675.310	2673.997	2671.678	2670.234	2669.528	2667.018	2665.509	2662.990	2661.990	2659.352	2657.105	2655.155	2653.205	2651.262	2649.400	2647.587
STATION	21+950	21+975	22+000	22+025	22+050	22+075	22+100	22+125	22+150	22+175	22+200	22+225	22+250	22+275	22+300	22+325	22+350		

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG.2024	Tender Drawings.	G. DESIGNED	S. DURRANI					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE 21+950.00 - 22+320.00
		a			DRAWN	IFTIKHAR ABBAS								
		b			CHECKED	S. DURRANI								
c			APPROVED	AQEEL YOUNIS										
										DATE:	AUG. 2024	CEC/KP-RRDP/HWN-SWT-T4/PP/	62	





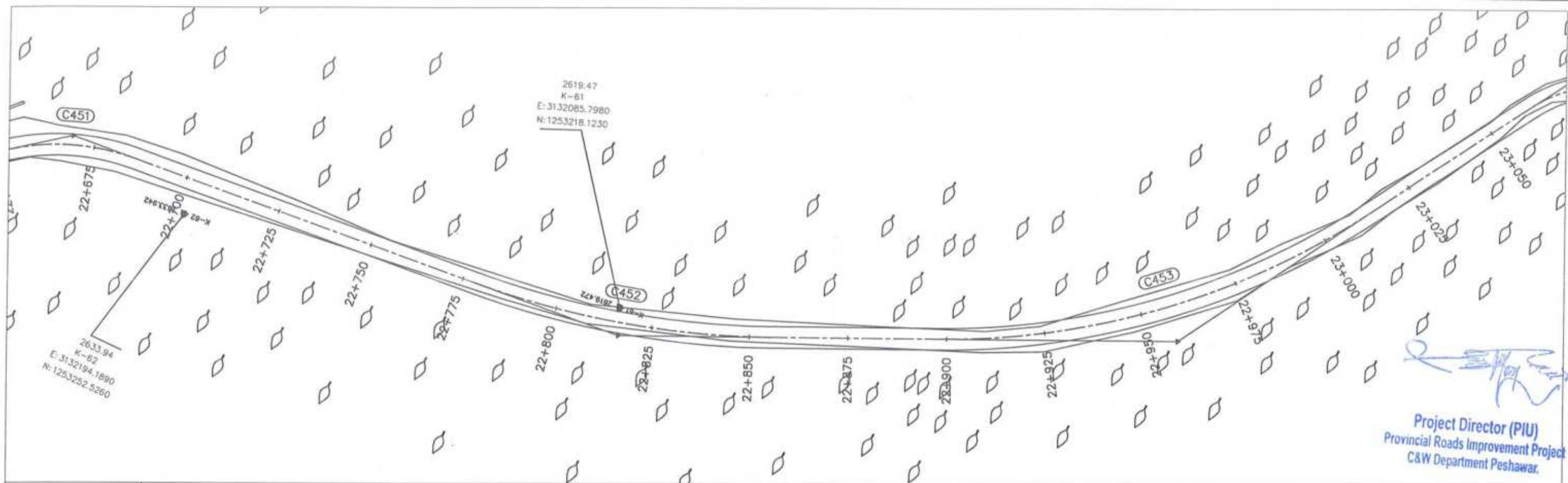
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



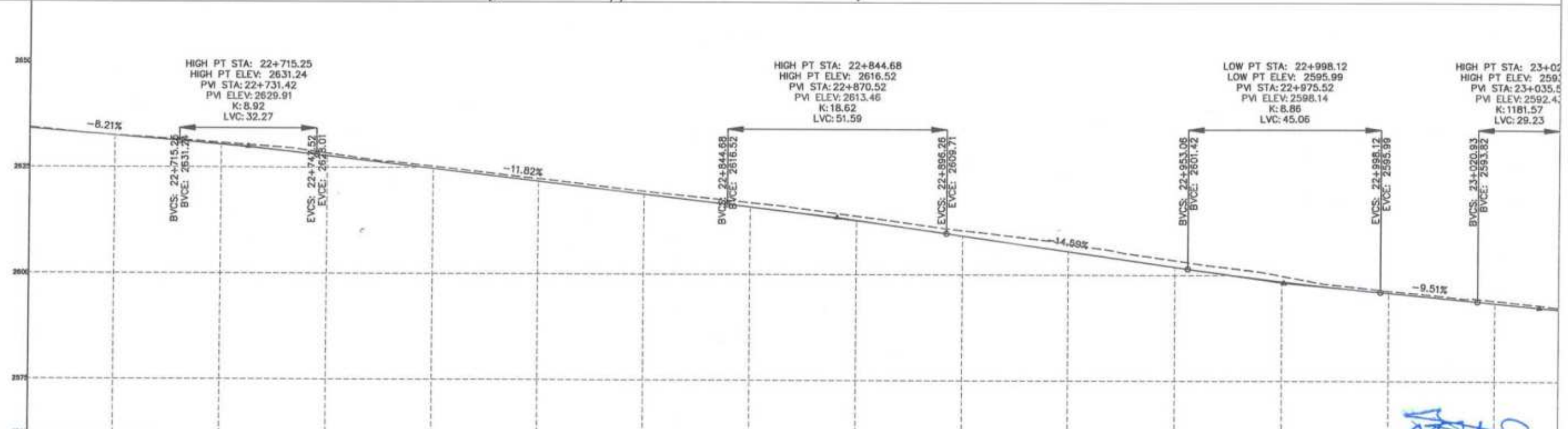
F.R.L	22+325 -2645.235 -2645.947	22+350 -2644.910 -2645.073	22+375 -2644.334 -2644.257	22+400 -2643.340 -2643.150	22+425 -2642.134 -2641.952	22+450 -2641.190 -2641.159	22+475 -2640.861 -2641.509	22+500 -2641.084 -2641.132	22+525 -2640.141 -2639.933	22+550 -2636.343 -2637.517	22+575 -2635.924 -2636.176	22+600 -2636.433 -2636.900	22+625 -2636.294 -2636.395	22+650 -2635.765 -2635.835	22+675 -2634.870 -2634.521
N.S.L															
STATION	22+325	22+350	22+375	22+400	22+425	22+450	22+475	22+500	22+525	22+550	22+575	22+600	22+625	22+650	22+675

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT
		0	AUG,2024	Tender Drawings.	G.DESIGNED S.DURRANI				
		a			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S.DURRANI				
					APPROVED AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG 2024 CEC/KP-RRDP/HWN/SWT-T4/PP/	PLAN & PROFILE 22+325.00 - 22+680.00 63	





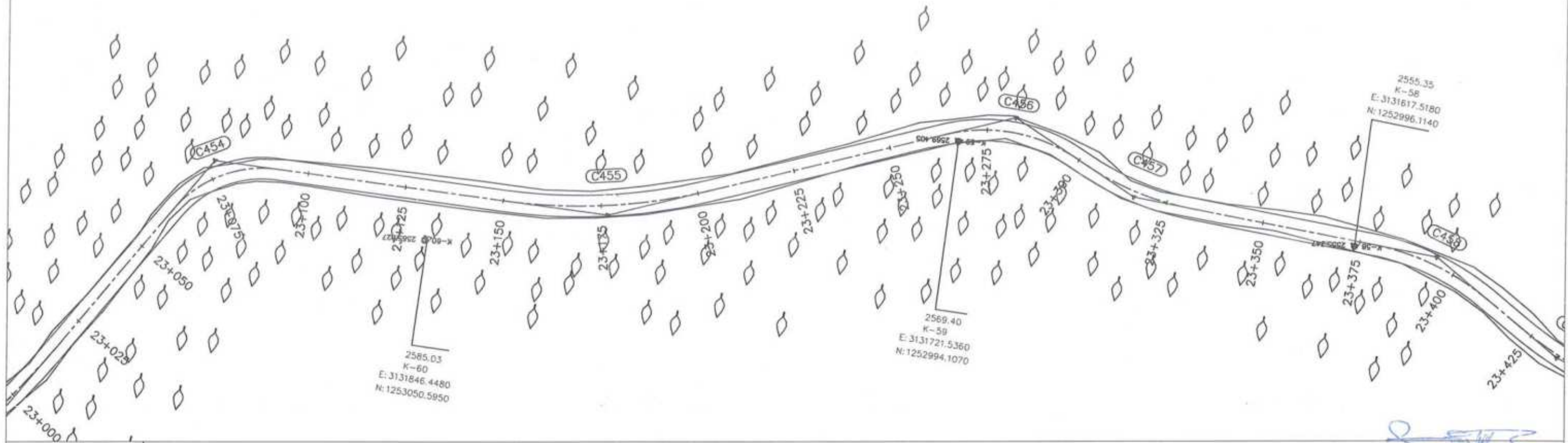
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



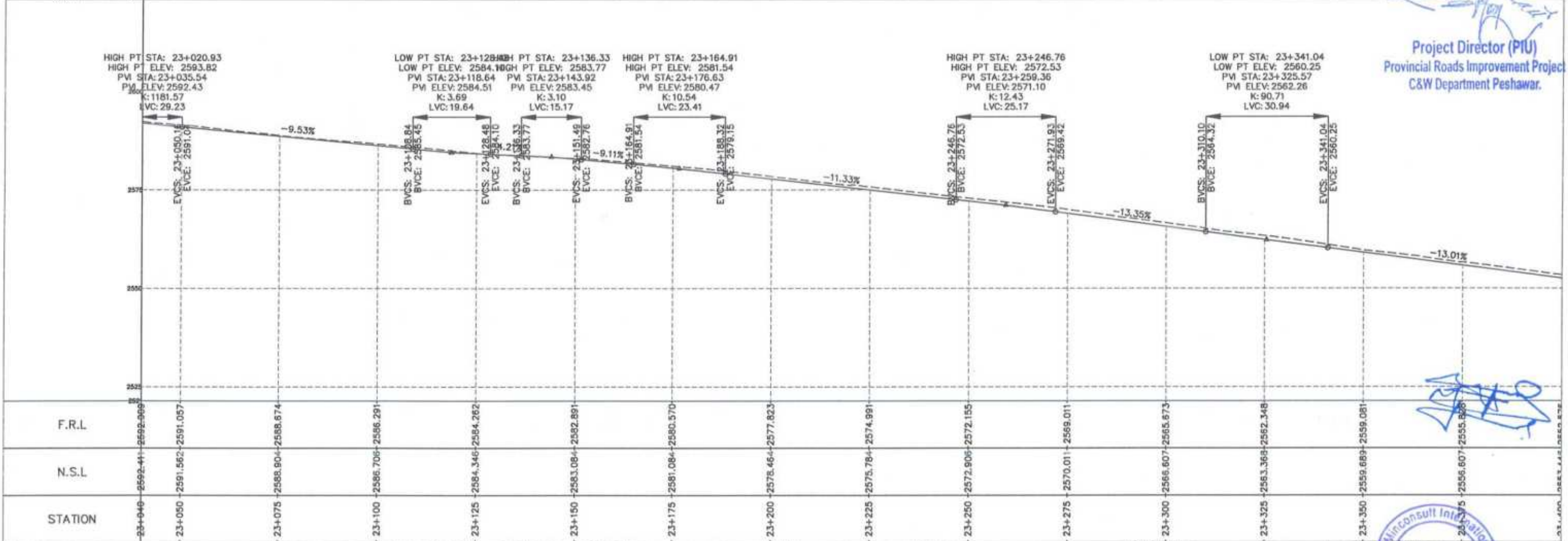
F.R.L	2634.129	2632.487	2630.383	2627.712	2624.756	2621.801	2618.845	2615.882	2612.888	2609.162	2605.513	2601.855	2598.491	2595.814	2592.437
N.S.L	2634.388	2632.601	2630.796	2626.351	2625.273	2622.412	2619.539	2616.905	2613.784	2610.439	2607.294	2603.421	2599.797	2596.272	2594.052
STATION	22+680	22+700	22+725	22+750	22+775	22+800	22+825	22+850	22+875	22+900	22+925	22+950	22+975	23+000	23+025

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58855-P)          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG, 2024	PLAN & PROFILE 22+680.00 - 23+040.00
		1			DRAWN	IFTIKHAR ABBAS				
		2			CHECKED	S.DURRANI				
3			APPROVED	AQEEL YOUNIS						
								AUG, 2024	CEC/KP-RRDP/HWIN-SWT-T4/PP/	64





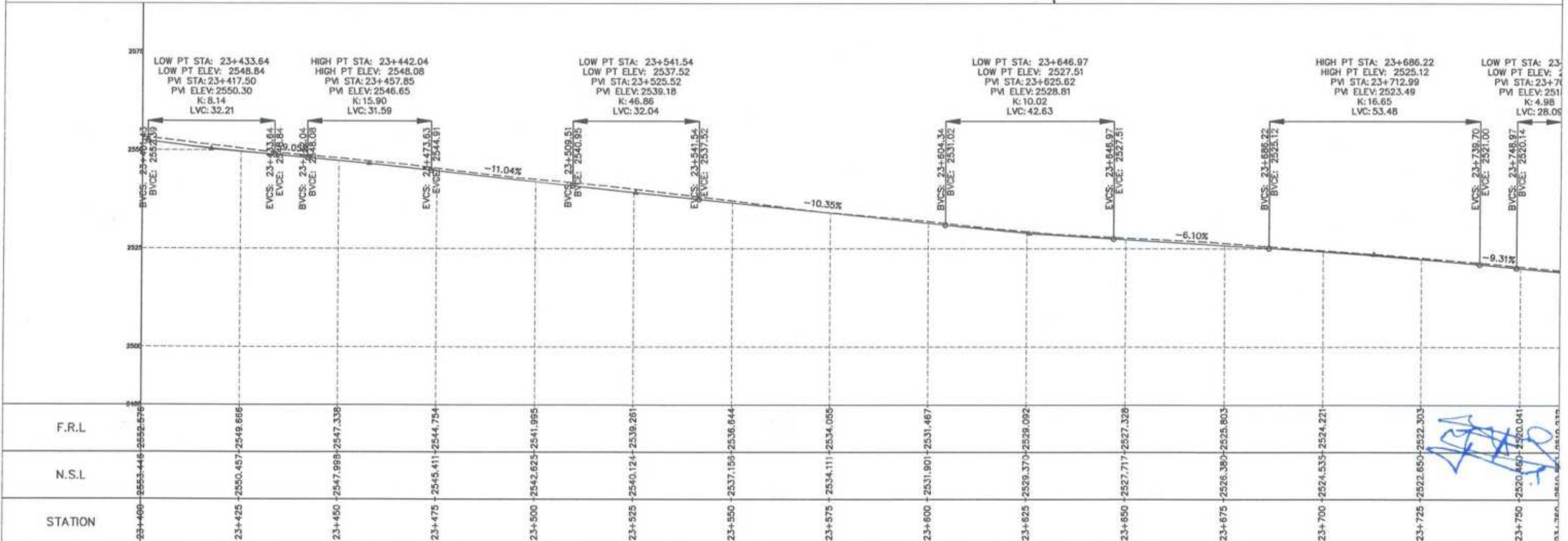
*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



*[Signature]*

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET	CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED: S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024.	SHEET: 65 PLAN & PROFILE 23+040.00 - 23+400.00 CEC/KP-RRDP/HWN-SWT-T4/PP/	
		a			DRAWN: IFTIKHAR ABBAS					
		b			CHECKED: S.DURRANI					
		c			APPROVED: AQEEL YOUNIS					

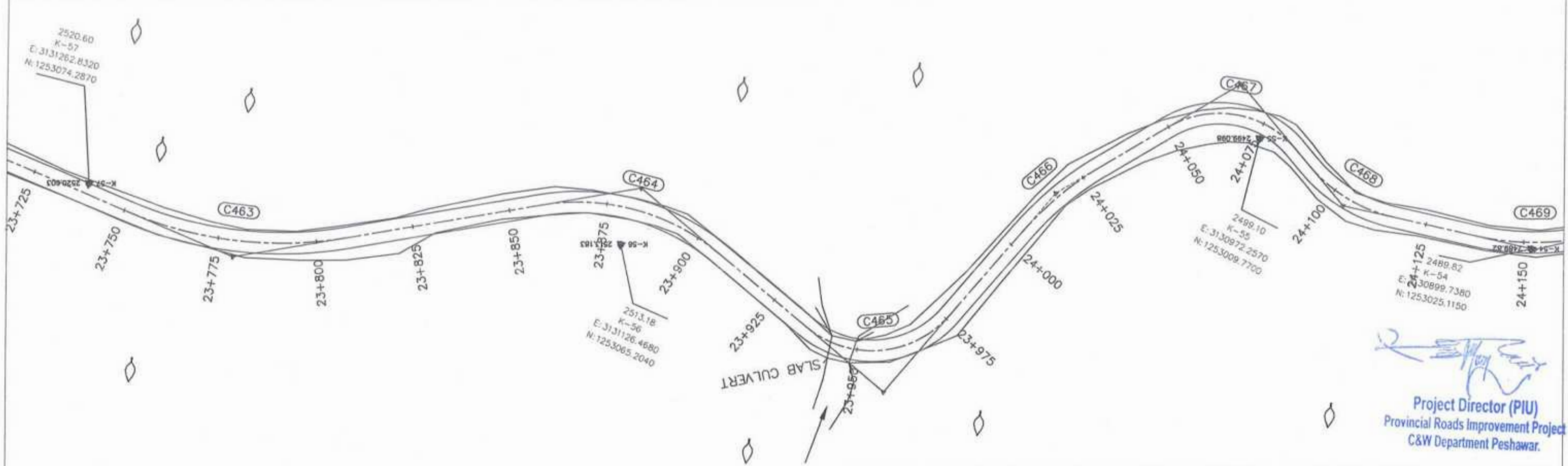




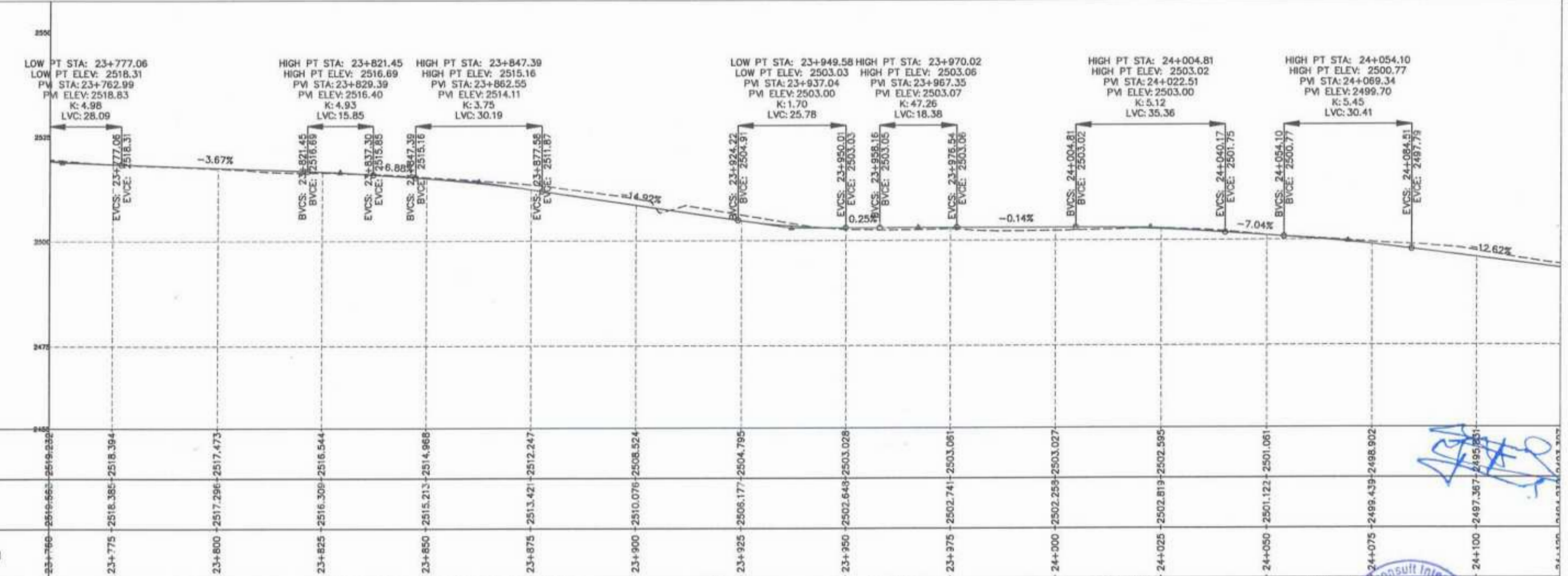
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	<p>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</p>	<p>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP</p>	<p>H=1:1000 V=1:1000</p>	<p>23+400.00 - 23+760.00</p>
		a			DRAWN	FTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
c			APPROVED	AQEEL YOUNIS						

Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



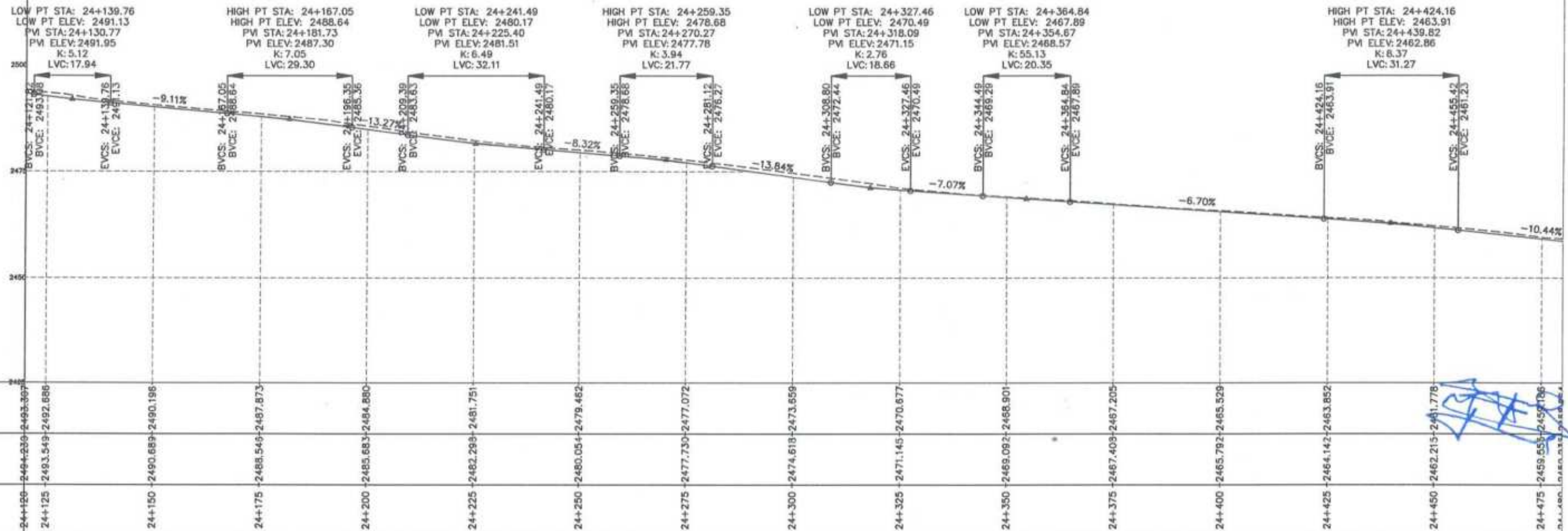
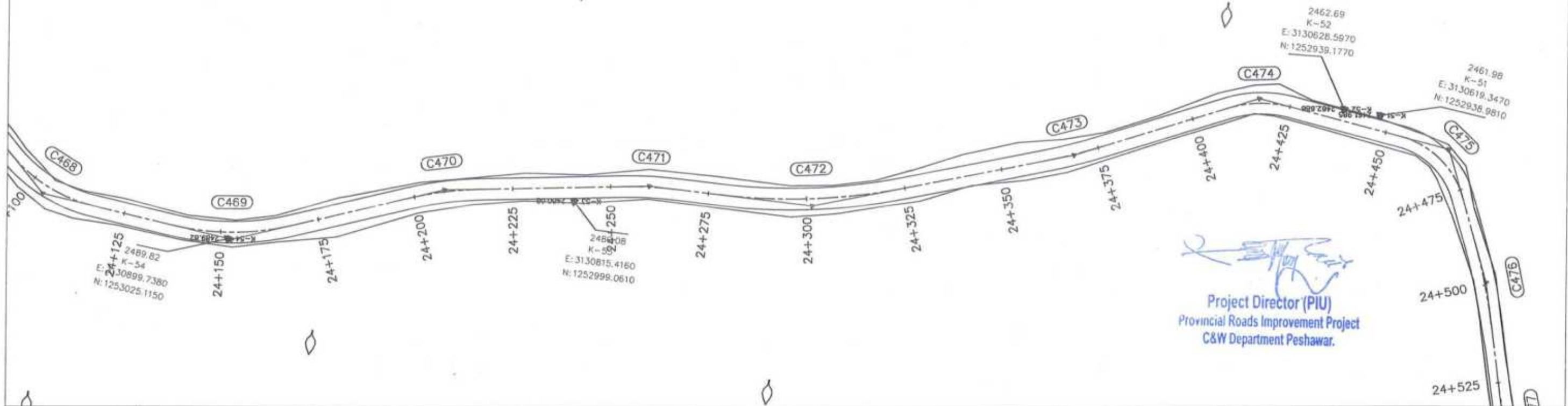


Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



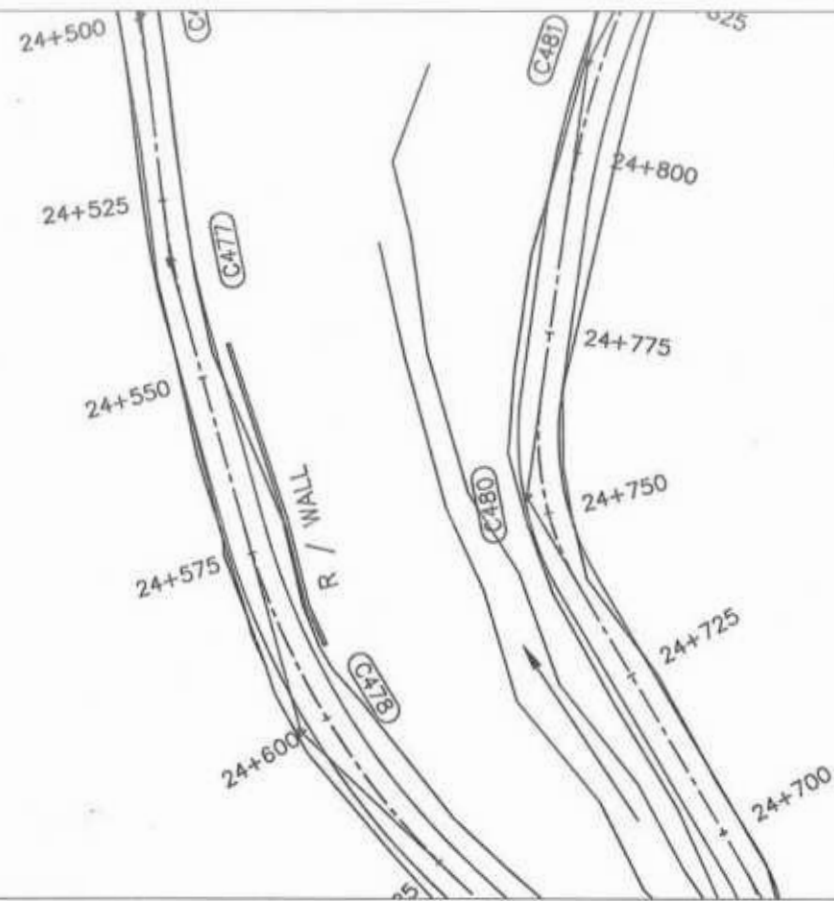
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GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024	PLAN & PROFILE 23+760.00 - 24+120.00 CEC/KP-RRDP/N-SWT-T4/PP1 67
		0			DRAWN	IFTIKHAR ABBAS			
		b			CHECKED	S.DURRANI			
		c			APPROVED	AQEEL YOUNIS			



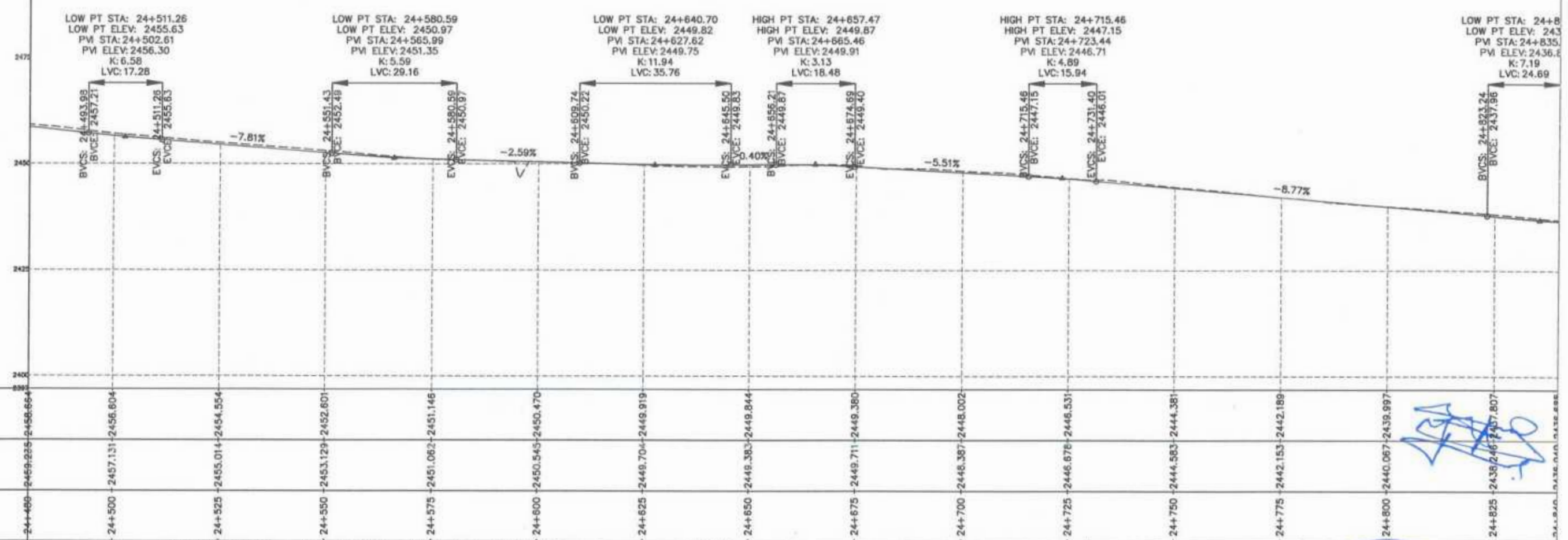


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
					G.DESIGNED	S.DURRANI				
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG, 2024.	PLAN & PROFILE 24+120.00 - 24+480.00 CEC/KP-RRDP/WHN-SWT-T4/07 68
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YOUNIS				









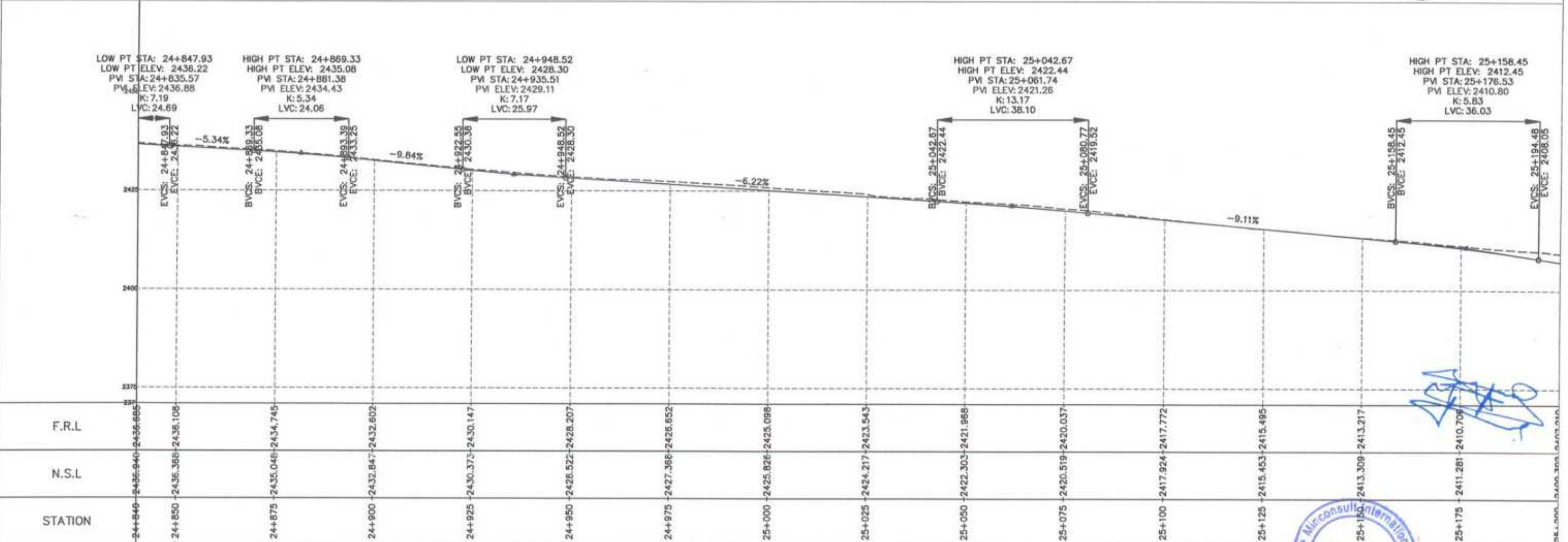
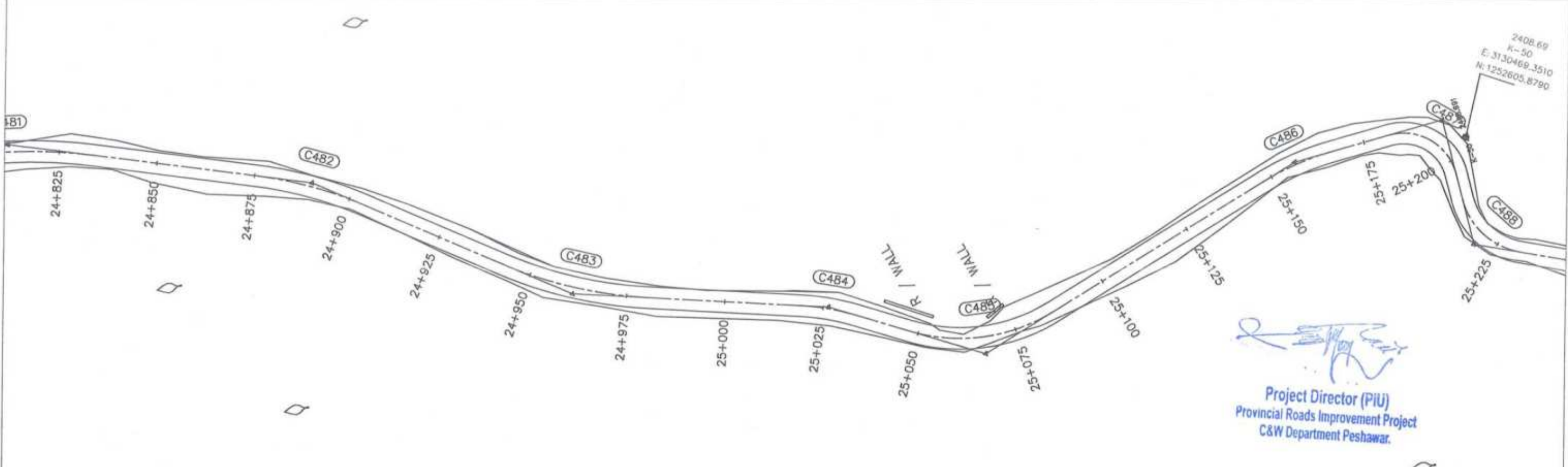
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



F.R.L	2459.235	2457.131	2455.014	2453.129	2451.062	2450.470	2449.704	2449.383	2449.380	2448.387	2446.531	2444.583	2442.189	2440.067	2437.807
N.S.L	2459.235	2457.131	2455.014	2453.129	2451.062	2450.470	2449.704	2449.383	2449.380	2448.387	2446.531	2444.583	2442.189	2440.067	2437.807
STATION	24+480	24+500	24+525	24+550	24+575	24+600	24+625	24+650	24+675	24+700	24+725	24+750	24+775	24+800	24+825

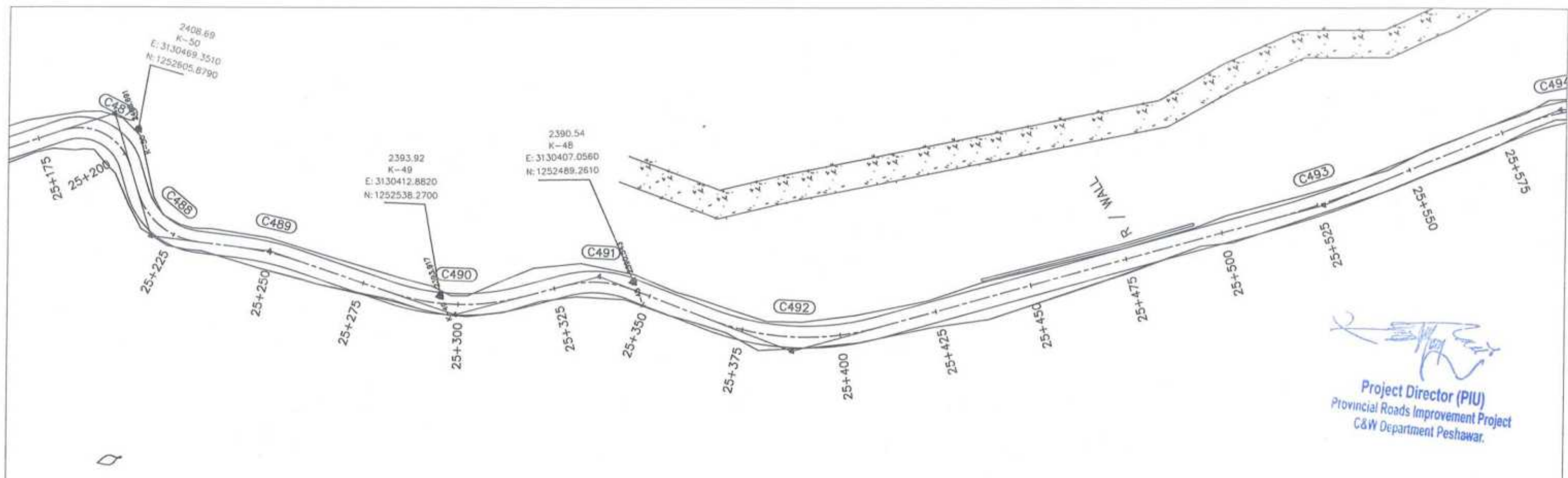
 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT	
		0	AUG, 2024	Tender Drawings.	G. DESIGNED	S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE AUG 2024	 PLAN & PROFILE 24+480.00 - 24+840.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S. DURRANI				
c			APPROVED	AQEEL YOUNIS						



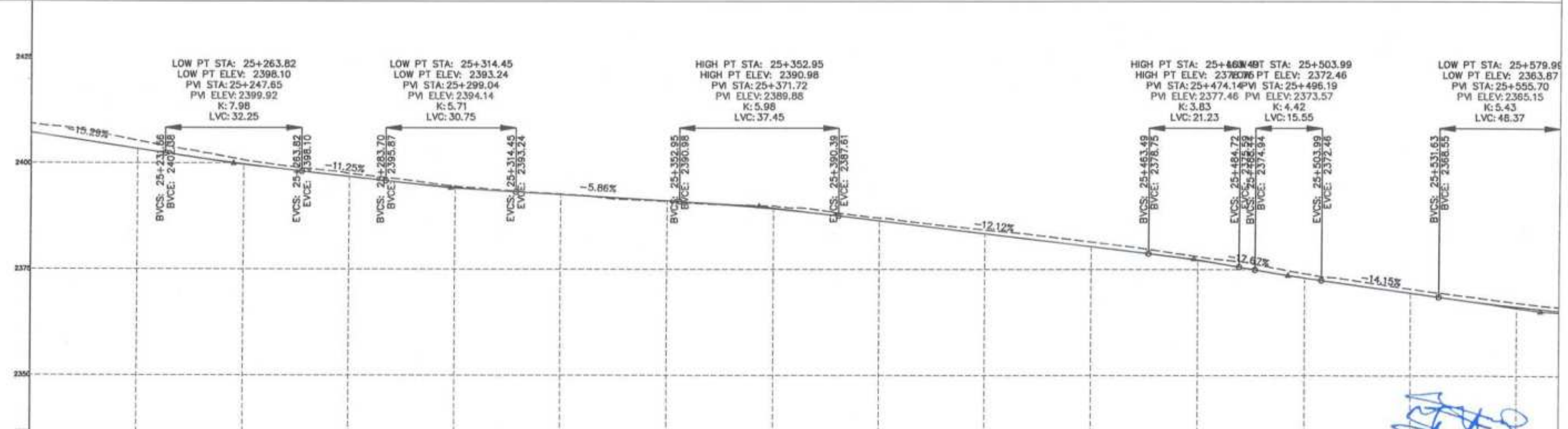


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	Tender Drawings.	G.DESIGNED S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE:	PLAN & PROFILE 24+840.00 - 25+200.00
		a			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S. DURRANI				
		c			APPROVED AQEEL YOUNIS				
								AUG, 2024	CEC/KP-RRDP/HWIN-SWT-T4/PP/ 70





Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

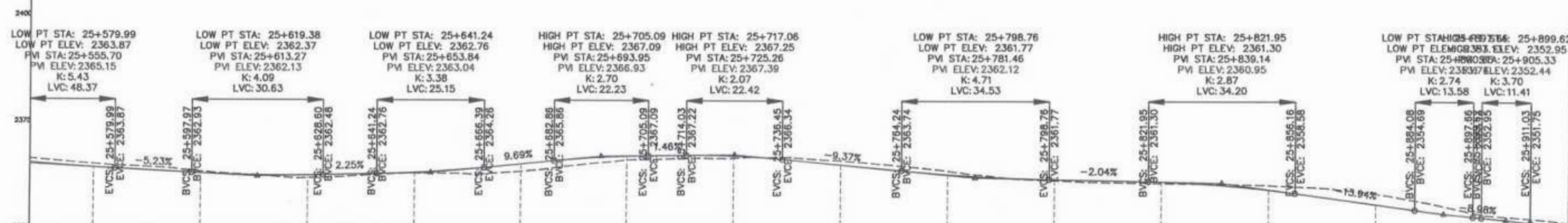
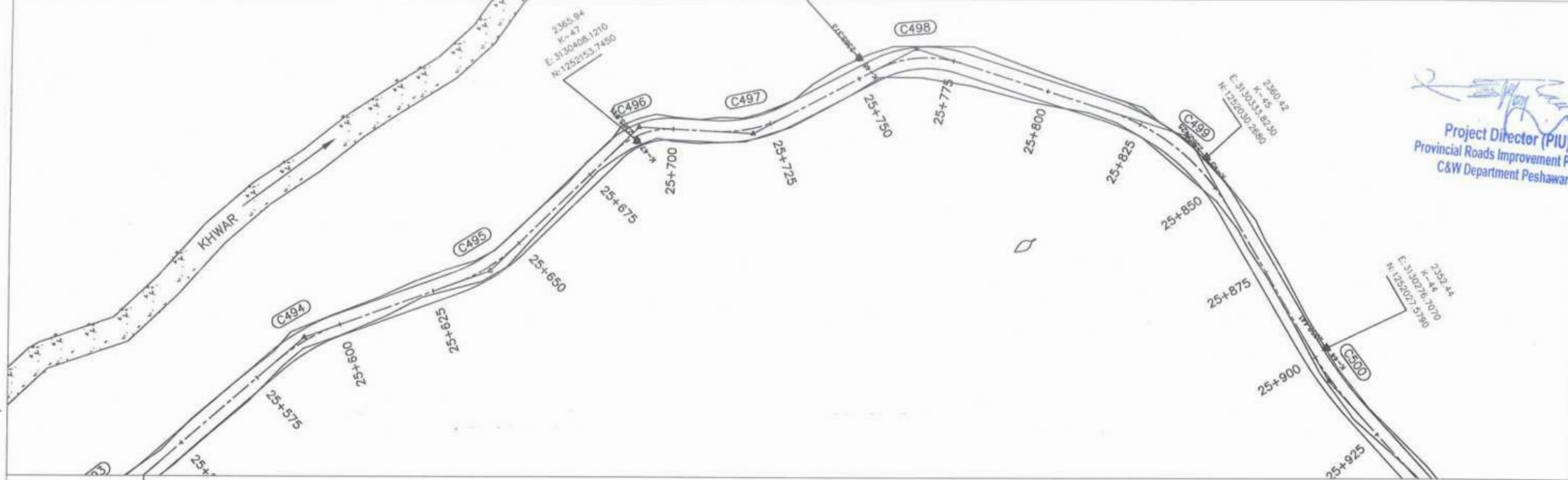


F.R.L	2400.00	2403.387	2399.777	2396.845	2394.266	2392.618	2391.151	2389.261	2386.448	2383.419	2380.388	2377.185	2373.045	2369.490	2366.967
N.S.L	2400.00	2403.302	2400.755	2397.555	2394.586	2392.746	2391.002	2389.946	2387.153	2384.337	2381.466	2378.046	2374.057	2370.430	2367.229
STATION	25+200	25+225	25+250	25+275	25+300	25+325	25+350	25+375	25+400	25+425	25+450	25+475	25+500	25+525	25+550

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000 DATE:	PLAN & PROFILE 25+200.00 - 25+560.00
		a			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
		c			APPROVED	AQEEL YOUNIS				
									AUG. 2024 CEC/KP-RRDP/HWN-SWT-T4/PPY	71



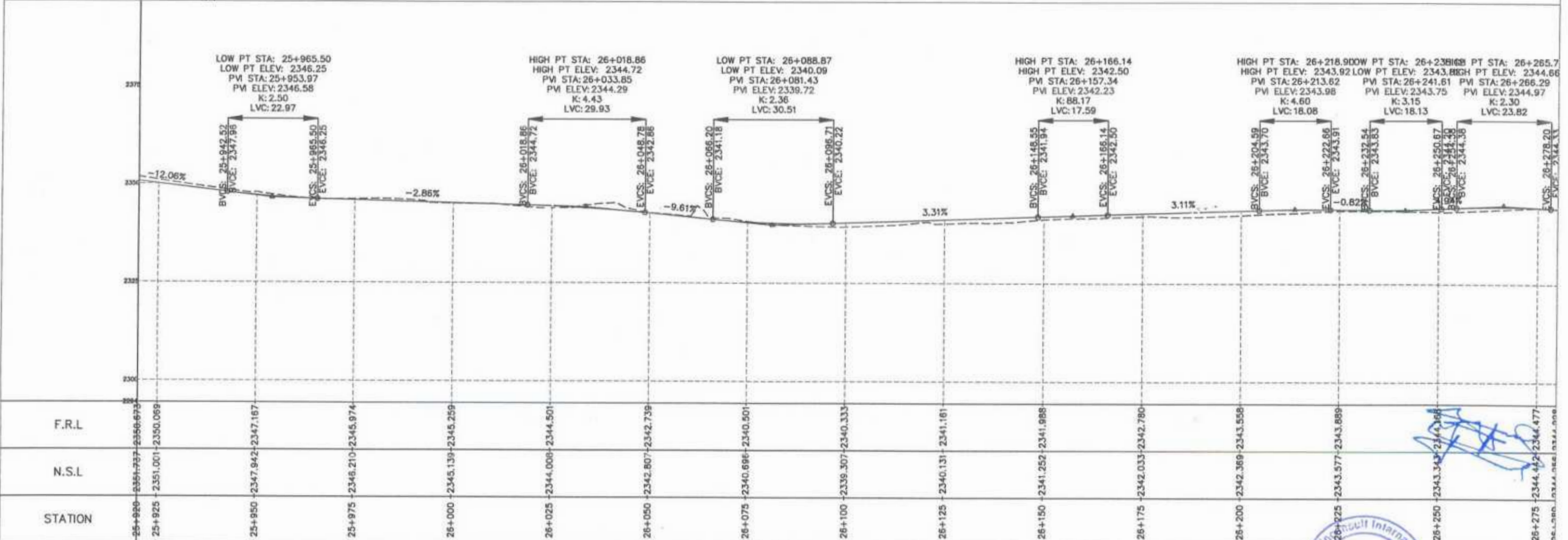
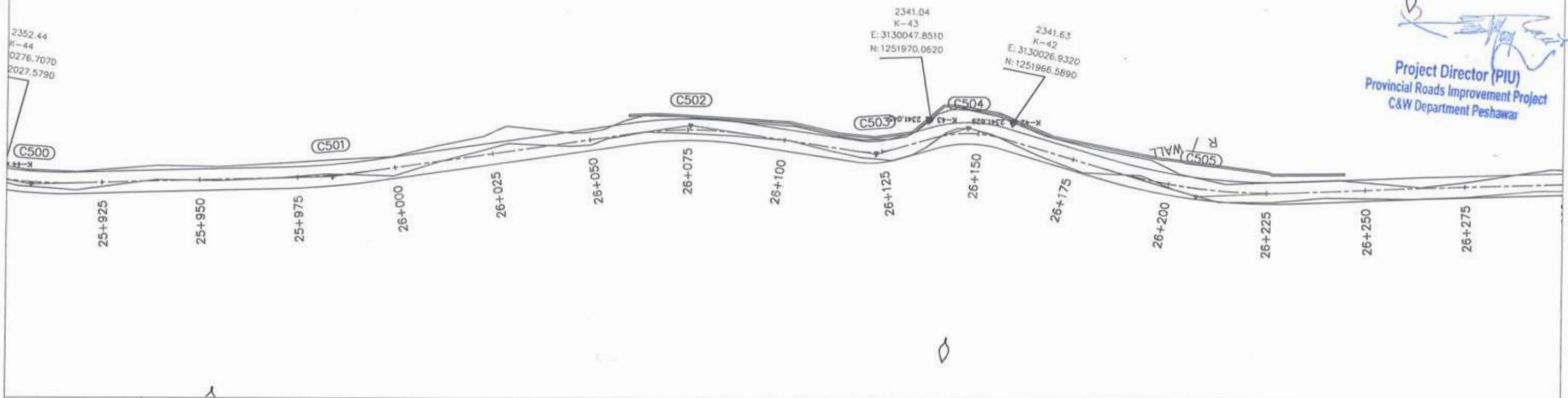
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



F.R.L	2366.162	2364.951	2364.158	2363.196	2362.832	2361.786	2362.412	2362.882	2363.071	2363.362	2365.095	2366.032	2366.972	2366.578	2367.095	2366.009	2365.071	2363.677	2362.853	2361.503	2361.746	2360.870	2361.220	2360.421	2359.368	2358.416	2355.951	2353.572	2352.444	2351.033
N.S.L	2366.162	2364.951	2364.158	2363.196	2362.832	2361.786	2362.412	2362.882	2363.071	2363.362	2365.095	2366.032	2366.972	2366.578	2367.095	2366.009	2365.071	2363.677	2362.853	2361.503	2361.746	2360.870	2361.220	2360.421	2359.368	2358.416	2355.951	2353.572	2352.444	2351.033
STATION	25+575	25+600	25+625	25+650	25+675	25+700	25+725	25+750	25+775	25+800	25+825	25+850	25+875	25+900																

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58825-P)          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		a	AUG, 2024	Tender Drawings.	G. DESIGNED	S. DURRANI				
		b			DRAWN	IFTIKHAR ABBAS				
		c			CHECKED	S. DURRANI				
					APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) TOURISM ROADS	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	1:1000 1:1000 DATE: AUG, 2024	PLAN & PROFILE 25+580.00 - 25+920.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 72

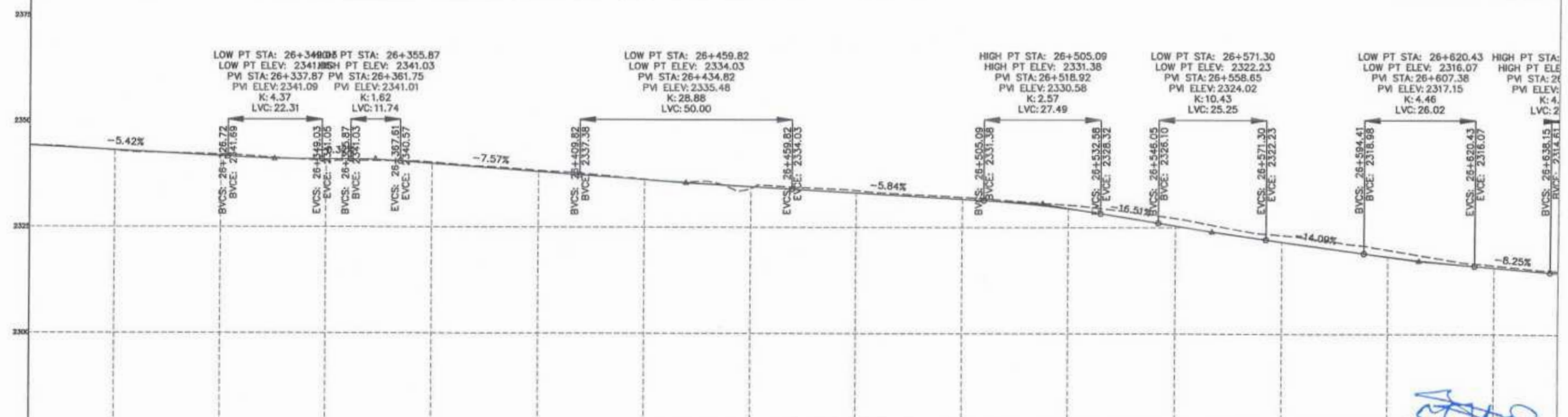
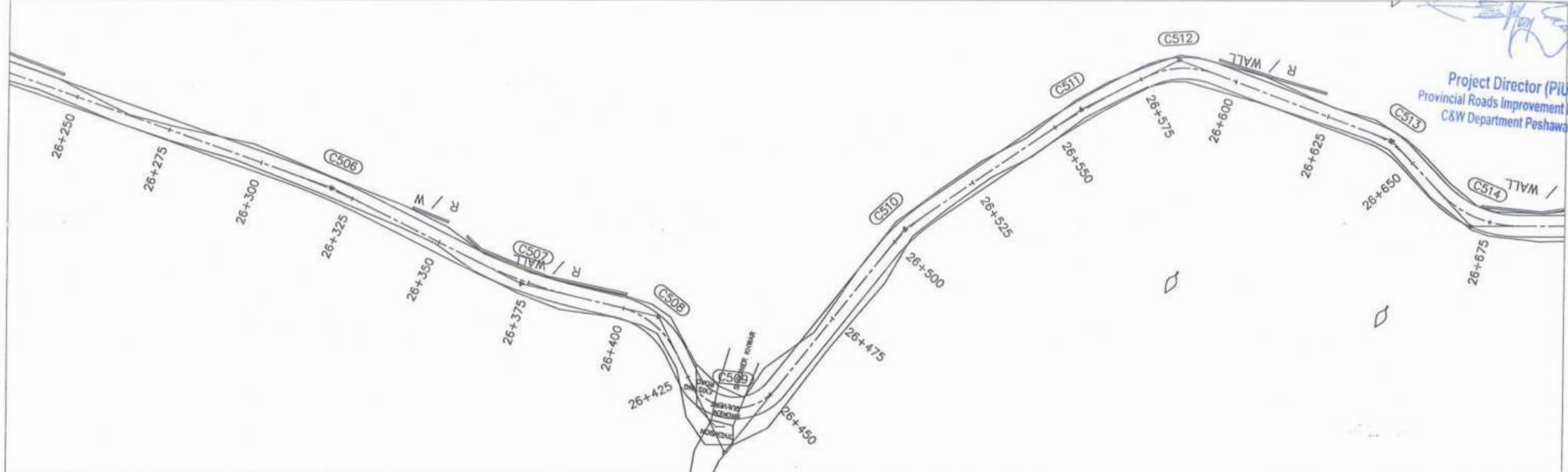




<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE: SHEET COMMENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED				S.DURRANI
		a			DRAWN				IFTIKHAR ABBAS
		b			CHECKED				S.DURRANI
				APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG 2024 CEC/KP-RRDP/HWN-SWT-T4/PP/	PLAN & PROFILE 25+920.00 - 26+280.00 73	



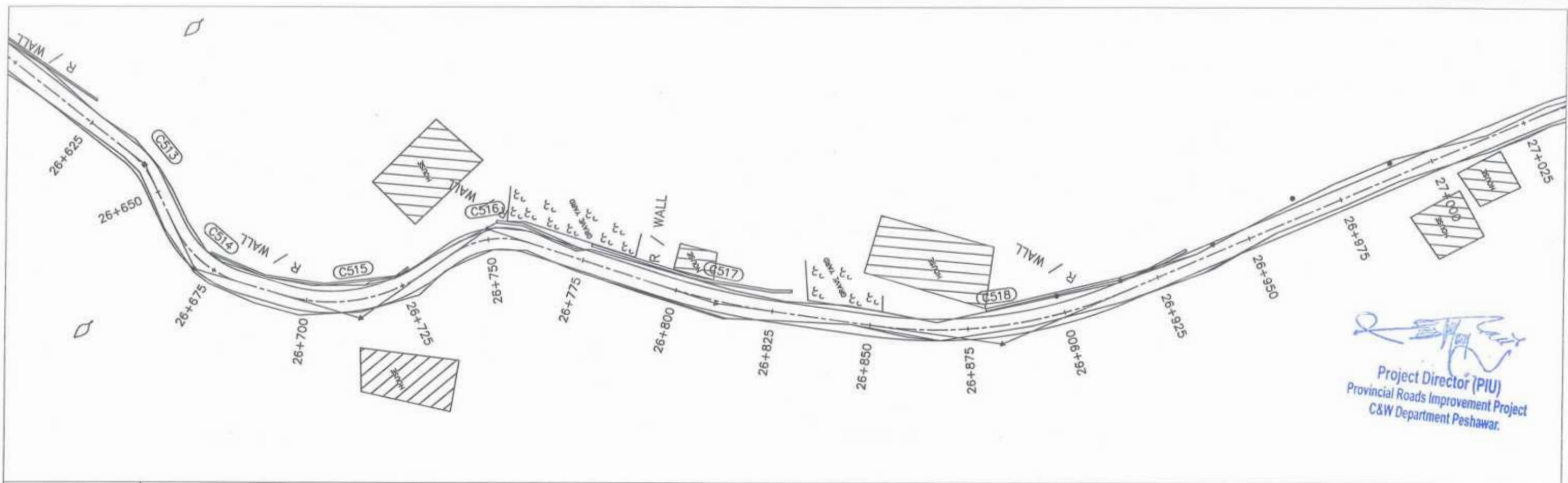
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



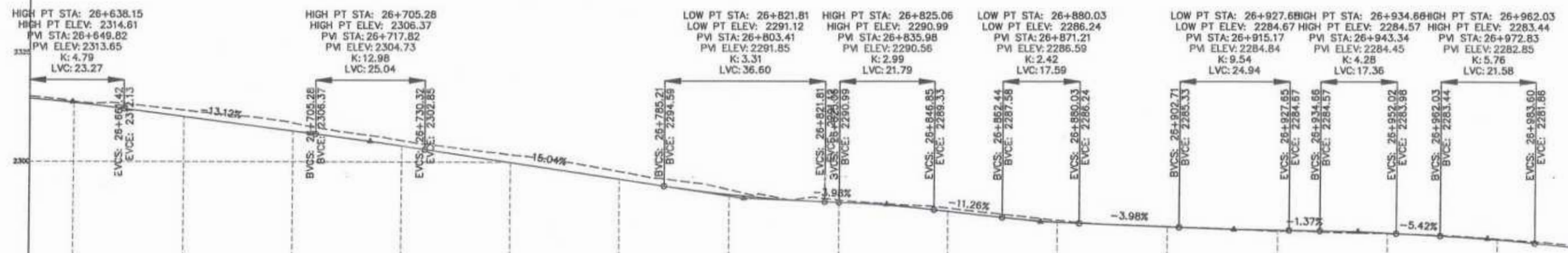
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N.S.L	2344.256	2343.028	2341.789	2341.051	2340.295	2338.383	2336.397	2334.056	2333.690	2332.087	2330.319	2328.459	2327.214	2323.265	2319.835	2316.223	2314.000
STATION	26+280	26+300	26+325	26+350	26+375	26+400	26+425	26+450	26+475	26+500	26+525	26+550	26+575	26+600	26+625	26+640	

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		a	AUG, 2024	Tender Drawings.	G. DESIGNED	S. DURRANI					
		b			DRAWN	IFTIKHAR ABBAS					
		c			CHECKED	S. DURRANI					
				APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE	
								TOURISM ROADS	DATE: AUG, 2024	26+280.00 - 26+640.00	CEC/KP-RRDP/HWN-SWT-T4/PP/ 74








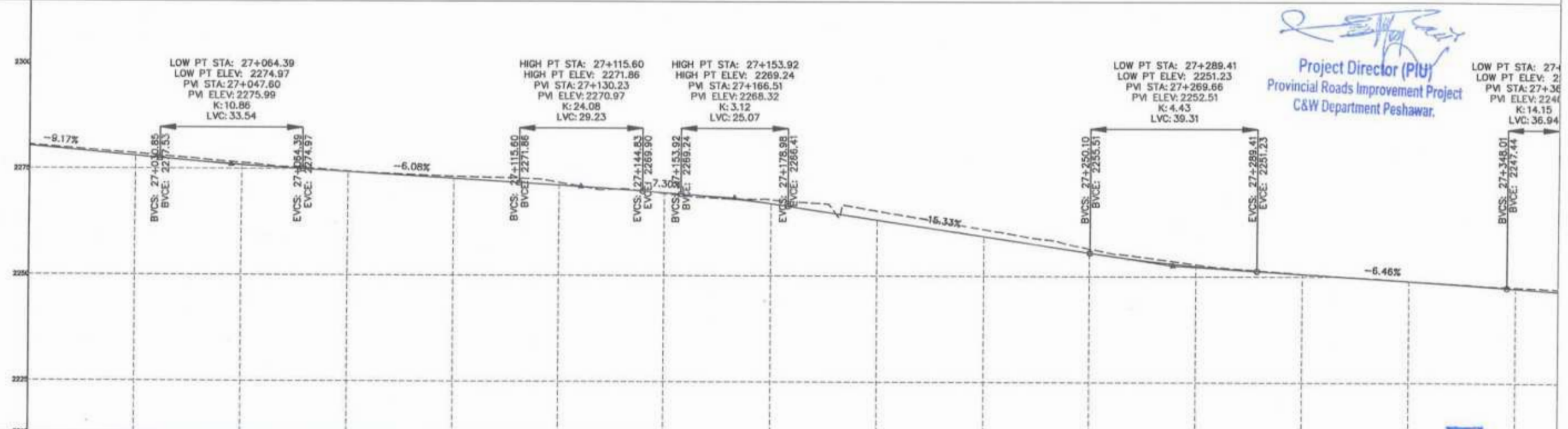
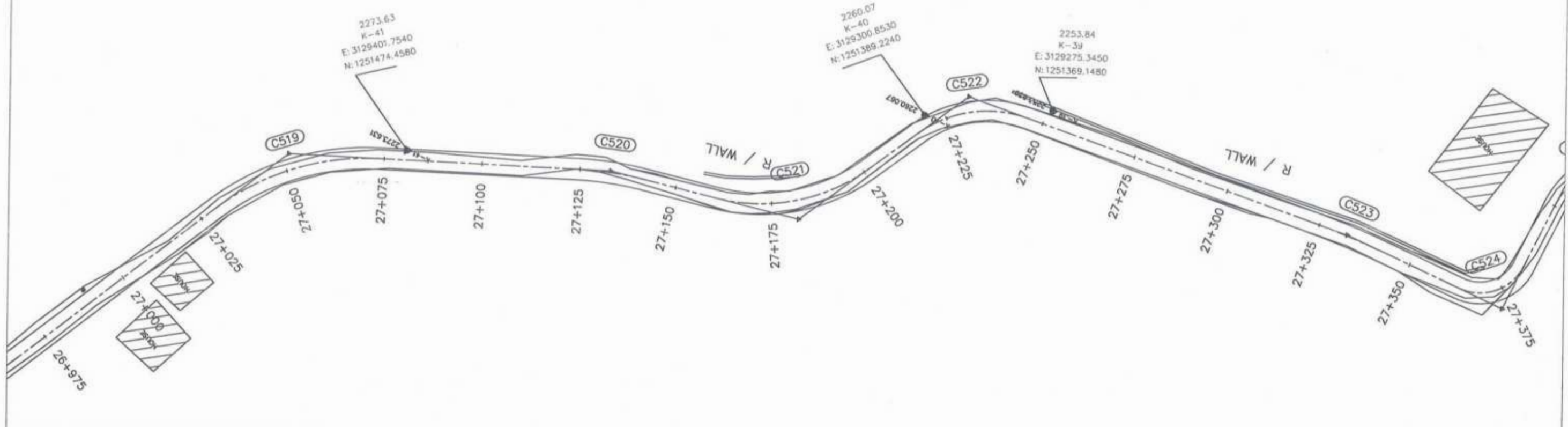
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.




F.R.L	2314.455	2313.487	2310.345	2307.066	2303.638	2299.888	2296.126	2292.700	2289.693	2286.877	2284.441	2284.706	2284.085	2281.66
N.S.L	2314.569	2313.780	2311.808	2308.930	2304.866	2301.678	2297.906	2293.836	2291.432	2288.707	2285.494	2284.433	2283.991	2282.753
STATION	26+640	26+650	26+675	26+700	26+725	26+750	26+775	26+800	26+825	26+850	26+875	26+900	26+925	26+950




 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:							
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:1000 V=1:1000	PLAN & PROFILE 26+640.00 - 27+000.00			
		a			DRAWN	IFTIKHAR ABBAS									TOURISM ROADS	DATE: AUG 2024	CEC/KP-RRDP/HWN-SWT-T4/PP/
		b			CHECKED	S.DURRANI											
c			APPROVED	AQEEL YOUNIS													





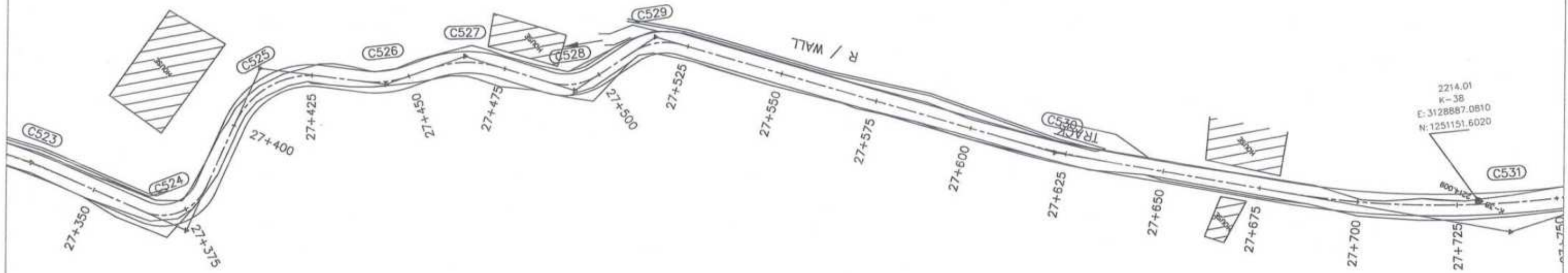
  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

F.R.L	2280.360	2278.067	2275.943	2274.328	2272.807	2271.268	2269.526	2267.993	2266.310	2265.354	2255.521	2252.394	2250.546	2248.930	2247.516
N.S.L	2280.662	2278.624	2276.430	2274.481	2273.295	2271.922	2269.325	2267.894	2265.310	2261.000	2256.496	2252.808	2250.613	2248.954	2247.595
STATION	27+000	27+025	27+050	27+075	27+100	27+125	27+150	27+175	27+200	27+225	27+250	27+275	27+300	27+325	27+350

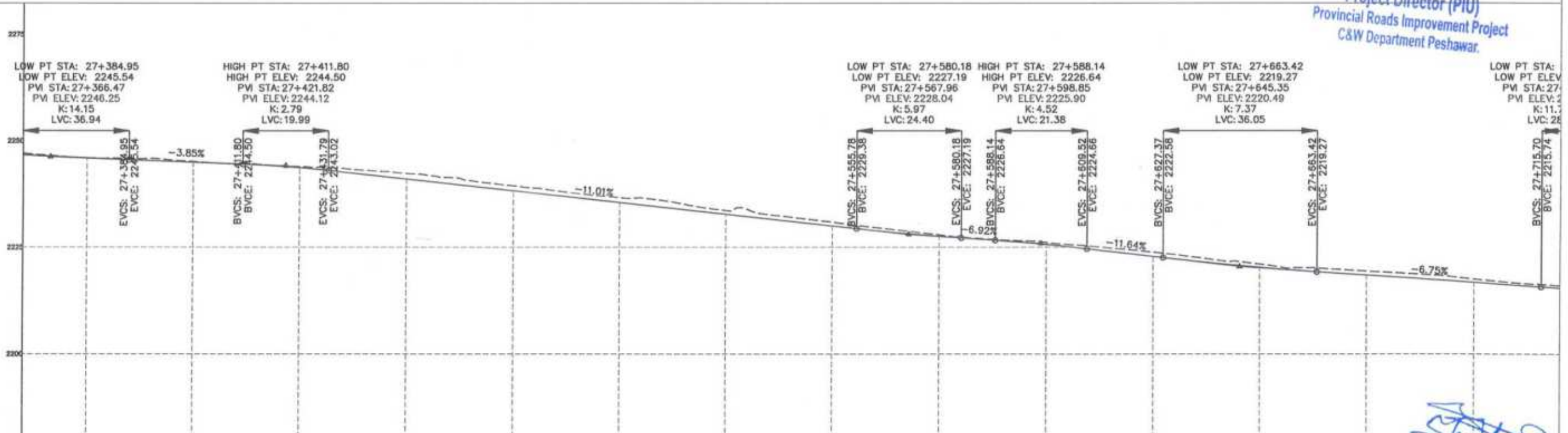
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:		
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000	PLAN & PROFILE 27+000.00 - 27+360.00	
		e			DRAWN	IFTIKHAR ABBAS			DATE:		AUG. 2024
		b			CHECKED	S.DURRANI					
		c			APPROVED	AQEEL YOUNIS					







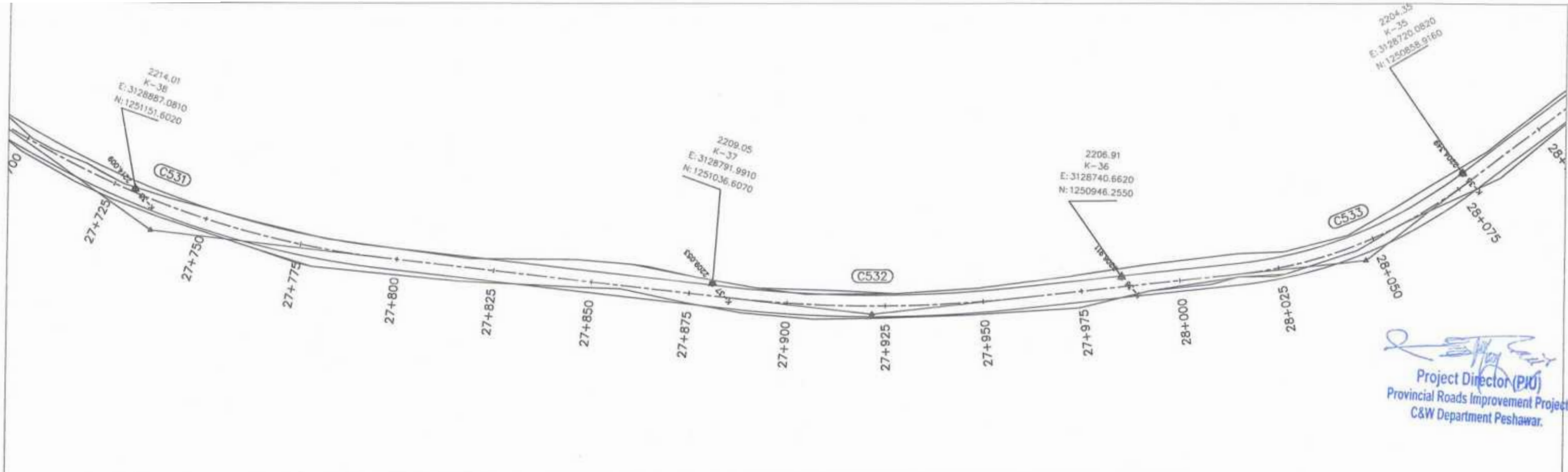
*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



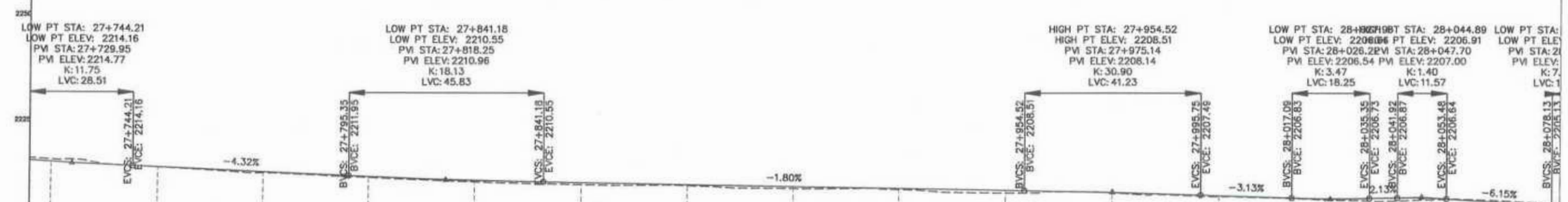
F.R.L	2247.692	2245.974	2244.959	2243.886	2242.344	2241.018	2238.266	2235.515	2232.763	2230.012	2227.571	2225.665	2222.855	2220.293	2218.484	2216.797
N.S.L	2247.692	2245.974	2244.959	2243.886	2242.344	2241.018	2238.266	2235.515	2232.763	2230.012	2227.571	2225.665	2222.855	2220.293	2218.484	2216.797
STATION	27+360	27+375	27+400	27+425	27+450	27+475	27+500	27+525	27+550	27+575	27+600	27+625	27+650	27+675	27+700	

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:
<b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>MINCONSULT SDN BHD</b> (COMPANY NO. 58825-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	d	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024	PLAN & PROFILE 27+360.00 - 27+720.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 77
		e			DRAWN IFTIKHAR ABBAS				
		b			CHECKED S.DURRANI				
		c			APPROVED AQEEL YOUNIS				





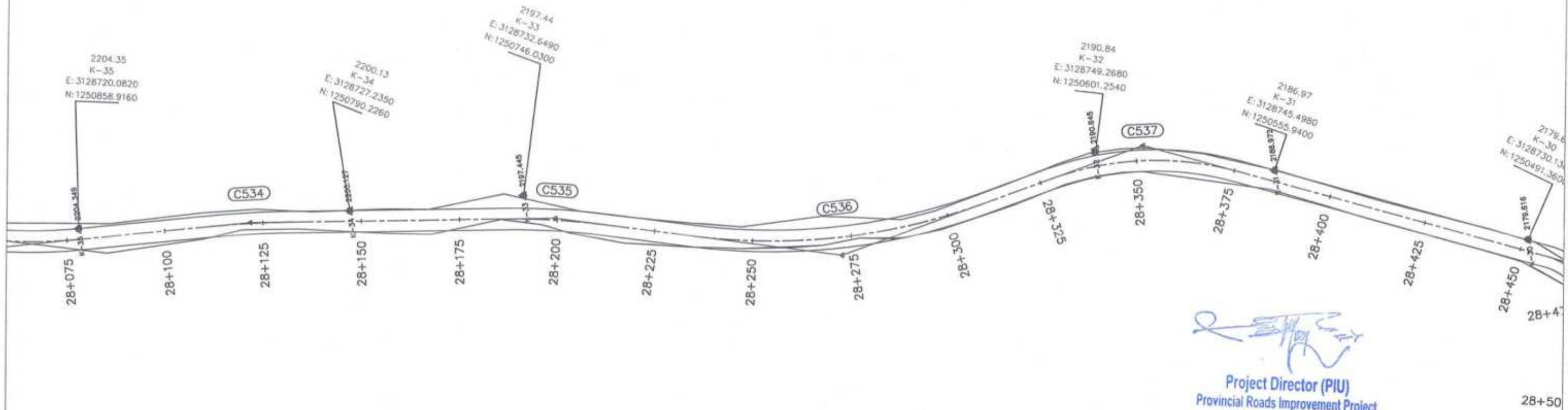
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



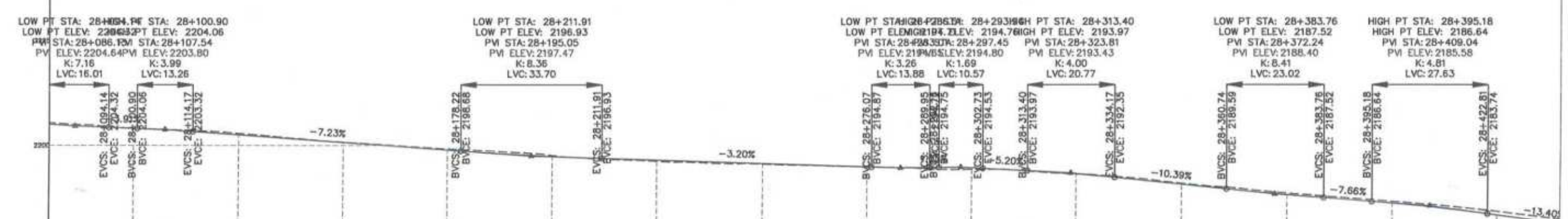
STATION	N.S.L	F.R.L
27+720	2215.608	2215.464
27+725	2215.608	2215.146
27+750	2213.850	2213.908
27+775	2212.571	2212.827
27+800	2211.514	2211.752
27+825	2210.517	2210.908
27+850	2209.931	2210.387
27+875	2209.707	2209.938
27+900	2209.045	2209.489
27+925	2208.809	2208.040
27+950	2207.981	2208.591
27+975	2208.016	2208.074
28+000	2207.130	2207.362
28+025	2206.356	2206.669
28+050	2206.437	2206.813
28+075	2205.691	2205.700

CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE	SHEET CONTENT	
		0	AUG, 2024	Tender Drawings.	G.DESIGNED			S.DURRANI	H=1:1000	PLAN & PROFILE 27+720.00 - 28+080.00
		a			DRAWN			IFTIKHAR ABBAS	V=1:1000	
		b			CHECKED			S.DURRANI	DATE	
			APPROVED	AQEEL YOUNIS	AUG, 2024	CEC/KP-RRDP/HWN-SWT-T4/PP/	78			





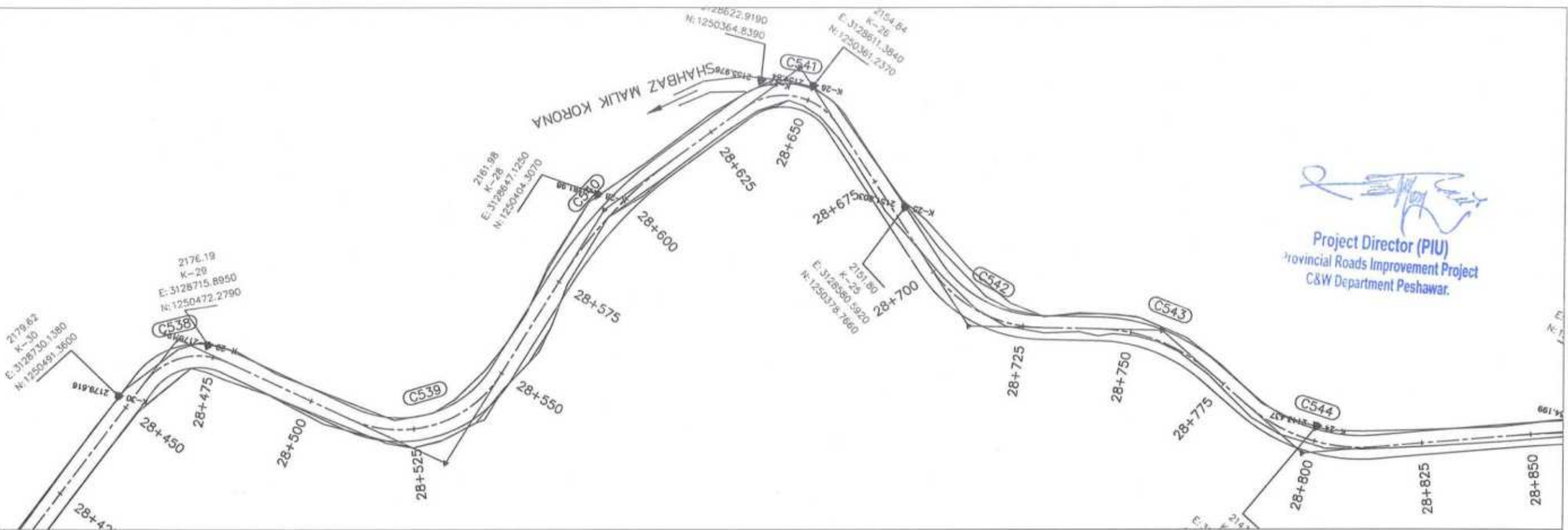
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**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



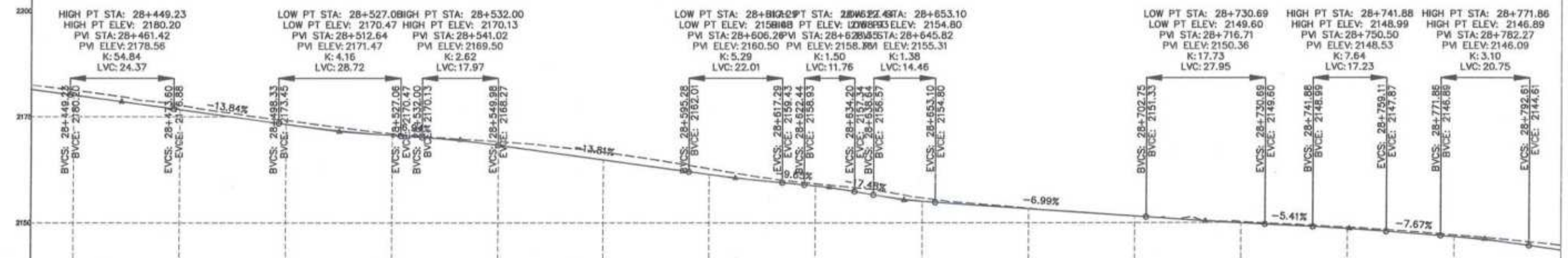
STATION	N.S.L	F.R.L
28+075	2205.365	2205.015
28+100	2204.085	2204.093
28+125	2202.887	2202.535
28+150	2200.804	2200.726
28+175	2199.203	2198.918
28+200	2197.650	2197.393
28+225	2196.237	2196.508
28+250	2195.595	2195.707
28+275	2194.930	2194.906
28+300	2194.260	2194.547
28+325	2193.130	2193.202
28+350	2190.962	2190.710
28+375	2188.623	2188.233
28+400	2186.673	2186.250
28+425	2184.301	2183.443

<b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV: 0	DATE: AUG. 2024	DESCRIPTION: Tender Drawings.	NAMES: G. DESIGNED: S. DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP) ROAD NAME: N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	SCALE: H=1:1000, V=1:1000 SHEET CONTENT: PLAN & PROFILE 28+080.00 - 28+440.00 DATE: AUG. 2024 CEC/KP-RRDP/HWN-SWT-T4/PP/
		0			DRAWN: IFTIKHAR ABBAS		
		b			CHECKED: S. DURRANI		
		c			APPROVED: AGEEL YOUNIS		





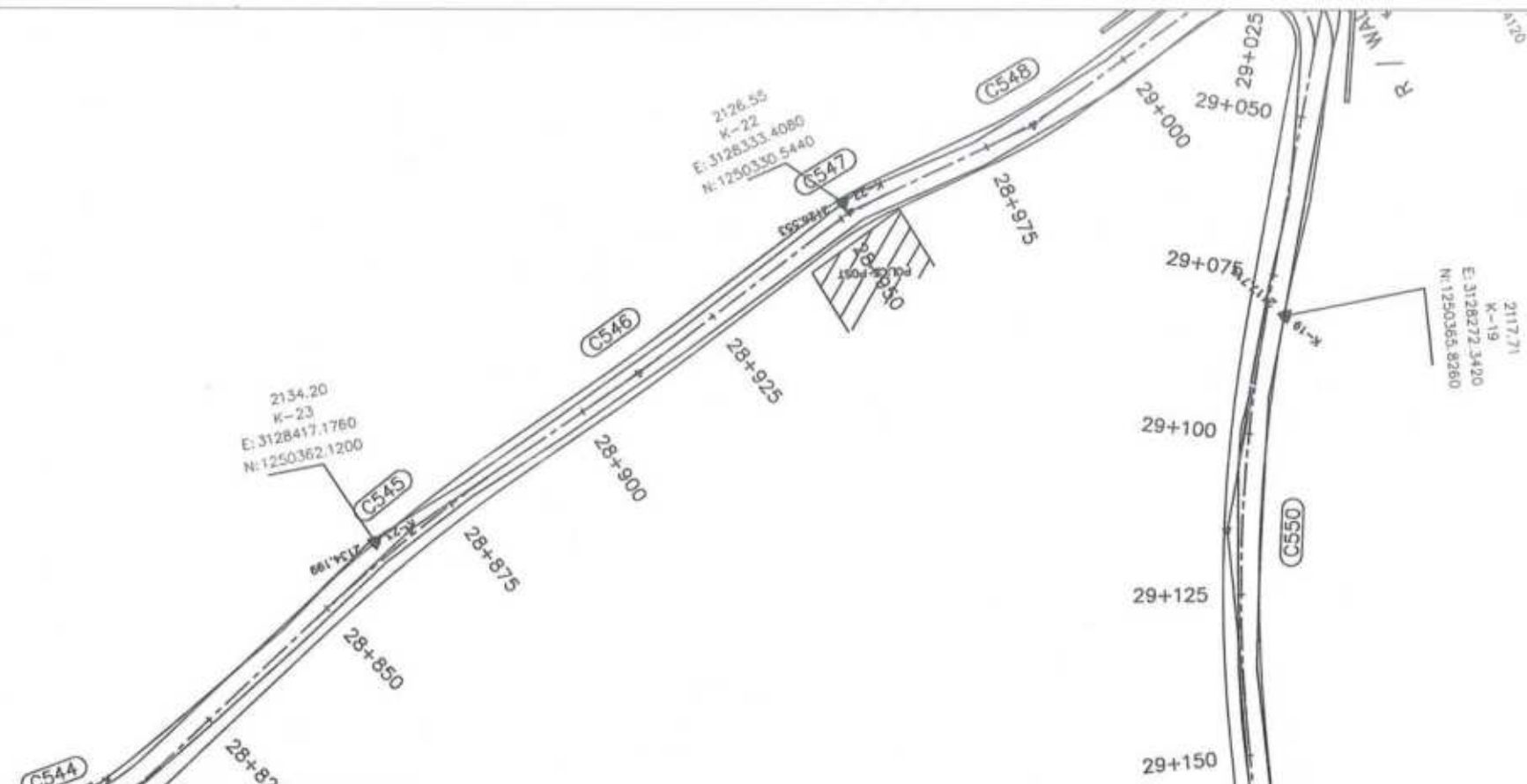
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



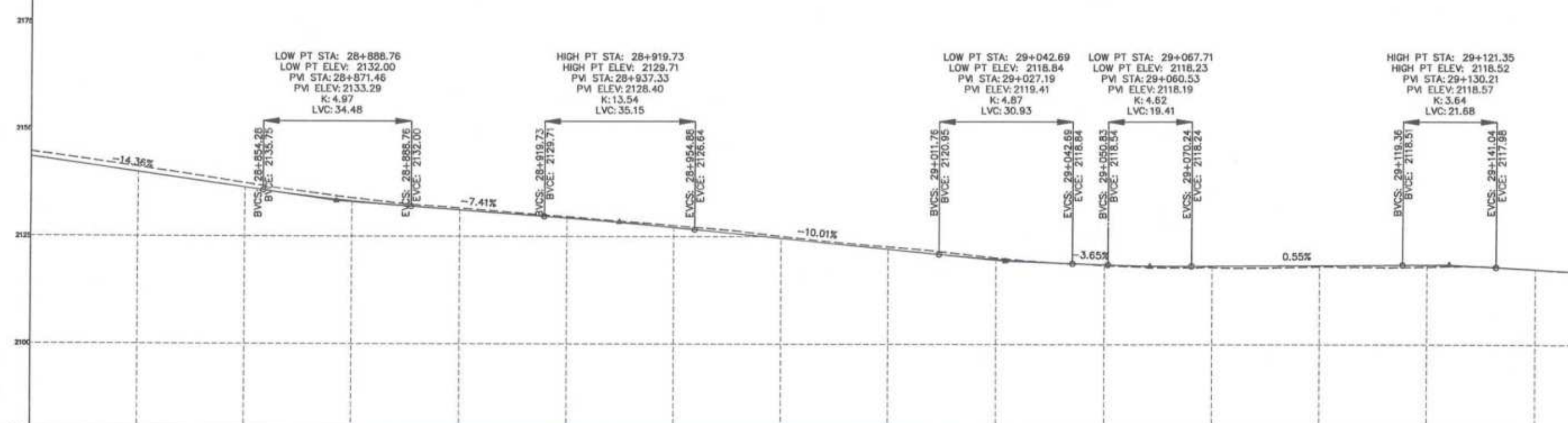
F.R.L	2161.433	2180.093	2176.684	2173.226	2170.620	2168.263	2164.811	2162.381	2158.665	2155.052	2153.270	2151.523	2149.916	2148.511	2146.633
N.S.L	2162.592	2181.297	2177.757	2174.172	2171.016	2169.136	2166.563	2162.726	2159.187	2155.846	2153.372	2151.506	2149.196	2148.840	2147.026
STATION	28+440	28+450	28+475	28+500	28+525	28+550	28+575	28+600	28+625	28+650	28+675	28+700	28+725	28+750	28+775

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:
		0	AUG.2024	Tender Drawings.	G.DESIGNED S.DURRANI	<p>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</p>	<p>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP</p>
		a			DRAWN IFTIKHAR ABBAS		
		b			CHECKED S.DURRANI		
c			APPROVED AQEEL YOUNIS				
<p>SCALE: SHEET CONTENT: H=1:1000 V=1:1000 DATE: AUG. 2024</p> <p>28+440.00 - 28+800.00</p> <p>CEC/KP-RRDP/HWN-SWT-T4/PP/ 80</p>							








  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



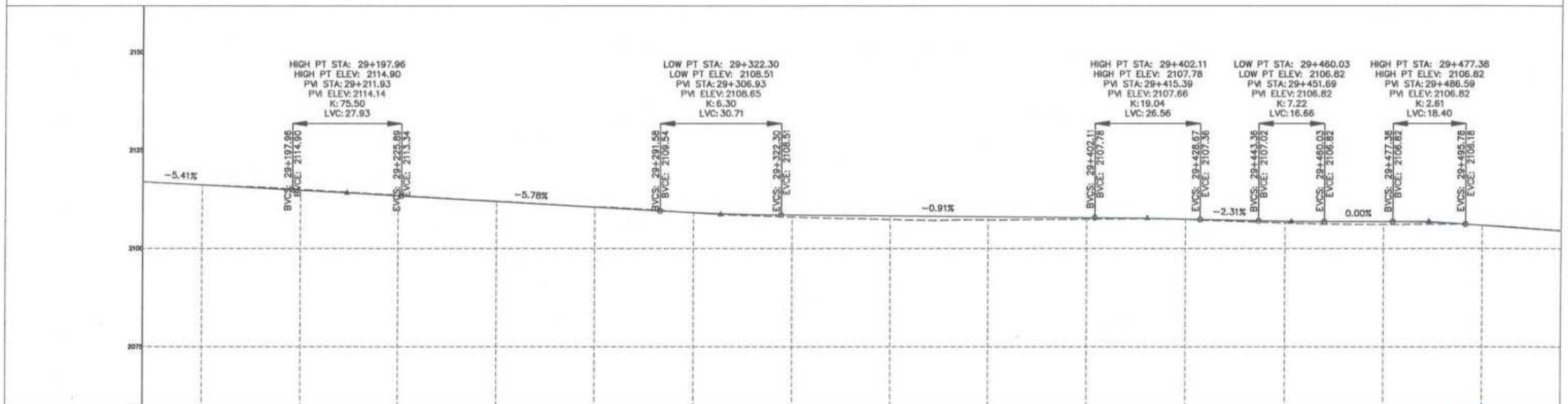
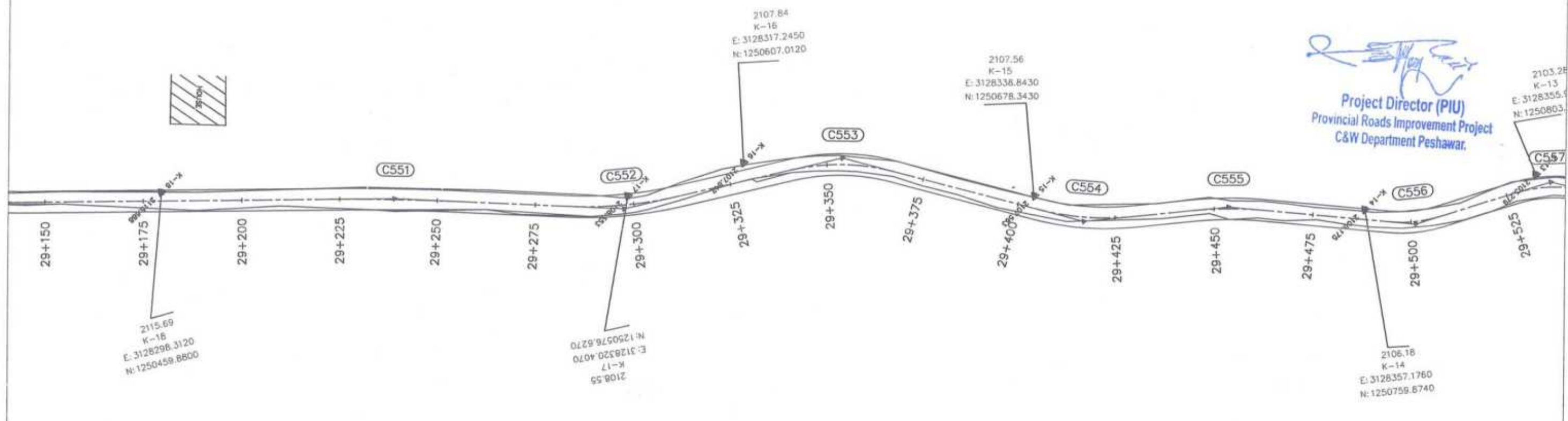
F.R.L	2144.667	2141.176	2137.409	2133.991	2131.612	2129.625	2127.588	2125.089	2122.670	2120.144	2118.391	2117.952	2118.101	2118.062	2117.482
N.S.L	2143.545	2139.955	2136.366	2133.211	2131.169	2129.305	2127.124	2124.631	2122.129	2119.807	2118.573	2118.268	2118.404	2118.497	2117.488
STATION	28+800	28+825	28+850	28+875	28+900	28+925	28+950	28+975	29+000	29+025	29+050	29+075	29+100	29+125	29+150

 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG, 2024	Tender Drawings.	G.DESIGNED					S.DURRANI
		a			DRAWN					IFTIKHAR ABBAS
		b			CHECKED					S.DURRANI
			c		APPROVED	AQEEL YOUNIS				

  
 PLAN & PROFILE  
 28+800.00 - 29+160.00  
 AUG 2024  
 CEC/KP-RRDP/IN-SWT-TA/PIU 81



Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



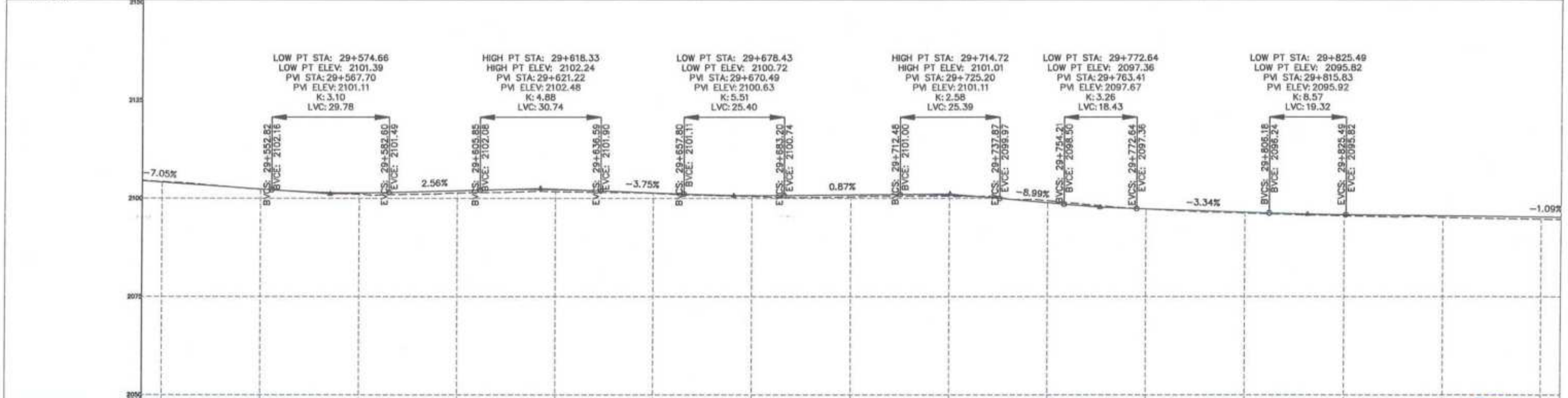
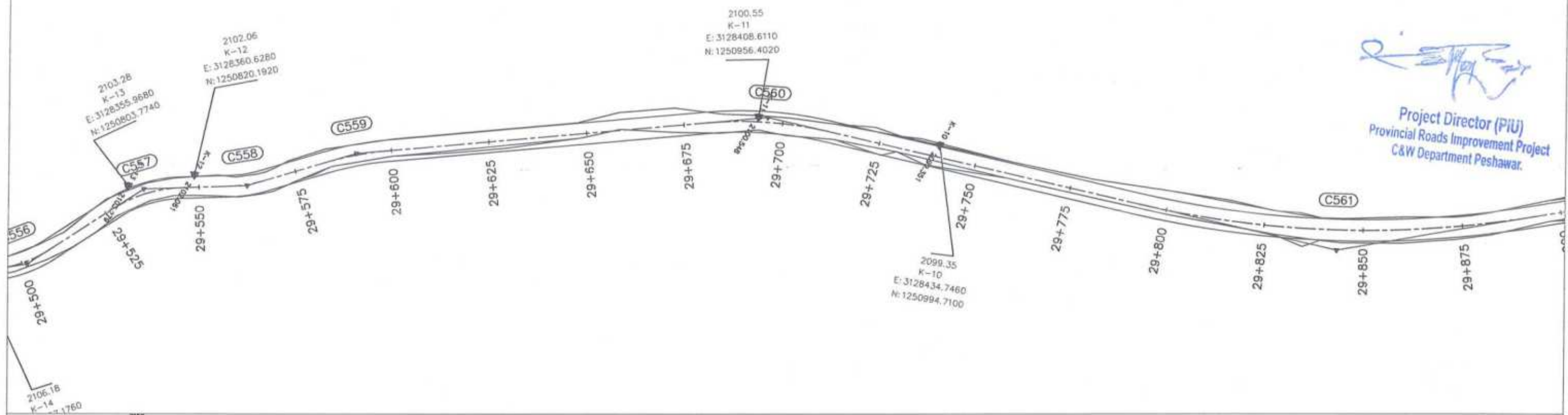
F.R.L	2116.966	2116.144	2114.790	2113.389	2111.943	2110.487	2109.107	2108.485	2108.257	2108.030	2107.802	2107.436	2106.894	2106.824	2105.879
N.S.L	2116.966	2116.175	2114.975	2113.516	2112.020	2110.540	2109.010	2107.966	2107.352	2107.233	2107.425	2107.351	2106.425	2106.089	2105.665
STATION	29+160	29+175	29+200	29+225	29+250	29+275	29+300	29+325	29+350	29+375	29+400	29+425	29+450	29+475	29+500

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG.2024	Tender Drawings.	G.DESIGNED			S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	H=1:5000	PLAN & PROFILE 29+160.00 - 29+520.00	
		a			DRAWN			IFTIKHAR ABBAS			TOURISM ROADS		V=1:1000
		b			CHECKED			S.DURRANI					DATE:
c			APPROVED	AQEEL YOUNIS	AUG. 2024								





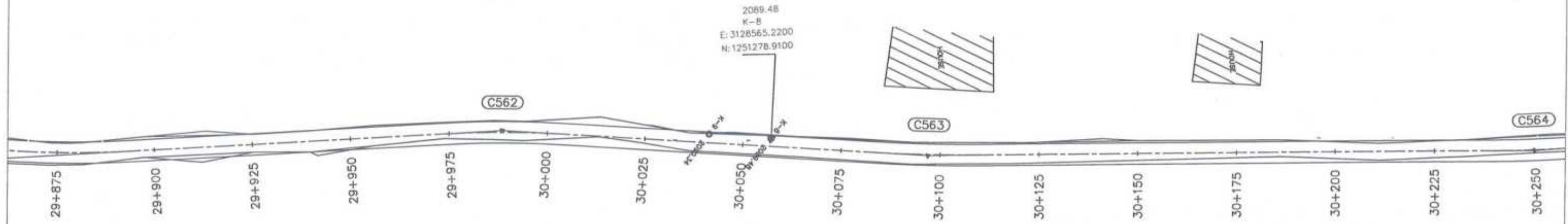
Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



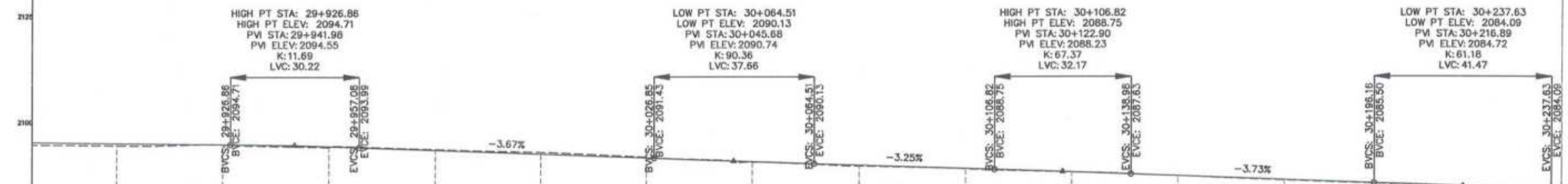
F.R.L	2104.470	2102.355	2101.368	2101.935	2102.199	2101.400	2100.733	2100.688	2100.802	2098.877	2097.284	2096.449	2095.821	2095.549	2094.277	
N.S.L	2104.574	2104.243	2104.117	2102.322	2102.355	2101.047	2101.368	2101.377	2101.935	2101.700	2101.199	2101.283	2101.400	2100.466	2100.733	
STATION	29+550	29+525	29+550	29+575	29+600	29+625	29+650	29+675	29+700	29+725	29+750	29+775	29+800	29+825	29+850	29+875

<p>GOVERNMENT OF KHYBER          PAKHTUNKHWA          COMMUNICATION &amp; WORKS          DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.          CREATIVE ENGINEERING          CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP TOURISM ROADS	H=1:1000 V=1:1000 DATE: AUG. 2024	PLAN & PROFILE 29+520.00 - 29+880.00 CEC/KP-RRDP/HWN-SWT-T4/PP/ 83
		e			DRAWN	IFTIKHAR ABBAS				
		b			CHECKED	S.DURRANI				
c			APPROVED	AQEEL YOUNIS						









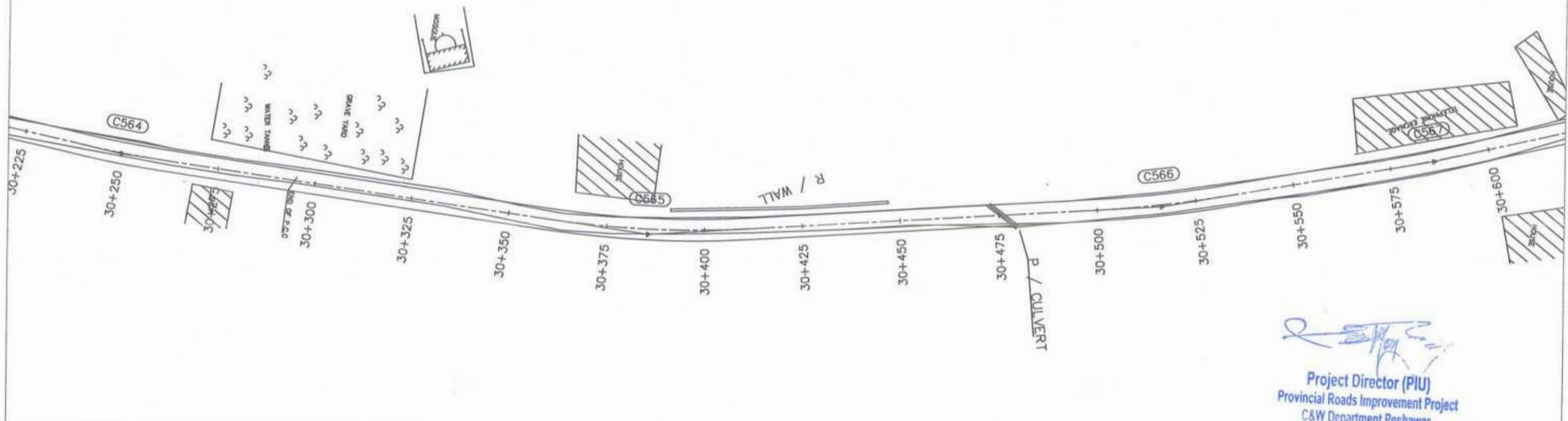
  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



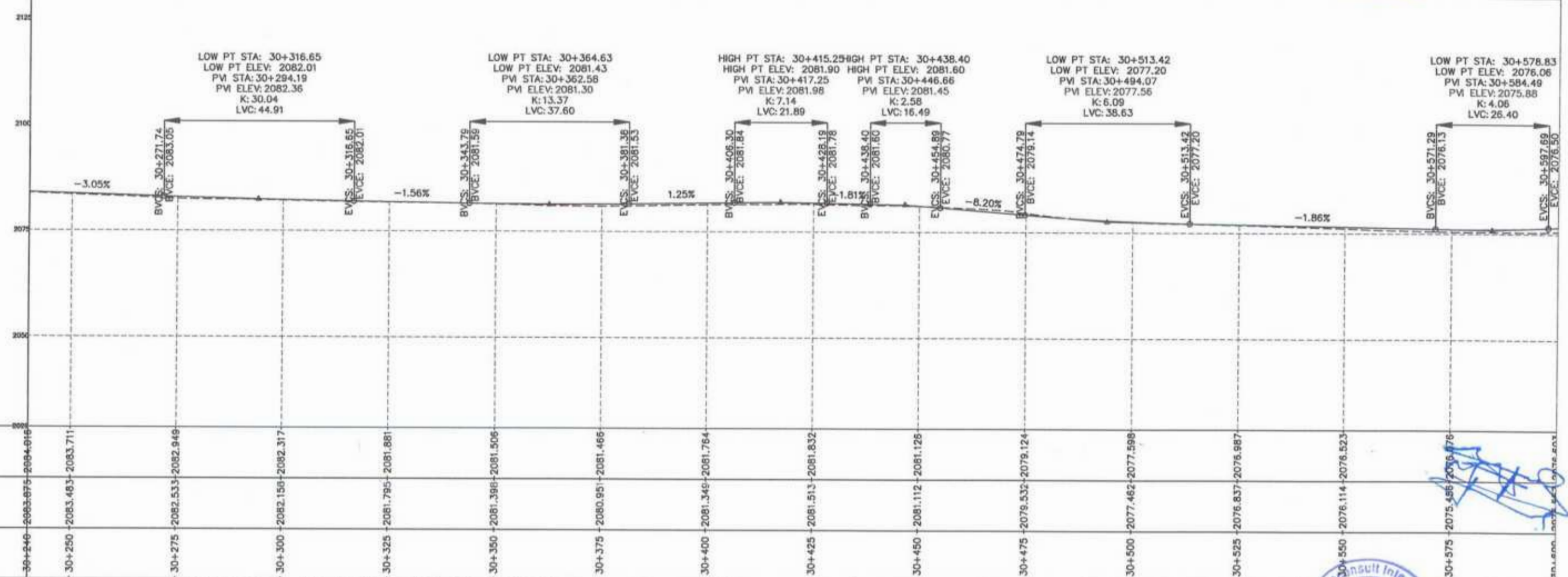
	29+875	29+900	29+925	29+950	29+975	30+000	30+025	30+050	30+075	30+100	30+125	30+150	30+175	30+200	30+225	30+250
F.R.L	2094.837	2094.483	2094.713	2094.048	2093.536	2092.835	2091.688	2090.516	2089.577	2088.883	2088.119	2087.198	2086.115	2085.257	2084.407	2083.594
N.S.L	2094.837	2094.483	2094.713	2094.048	2093.536	2092.835	2091.688	2090.516	2089.577	2088.883	2088.119	2087.198	2086.115	2085.257	2084.407	2083.594
STATION	29+875	29+900	29+925	29+950	29+975	30+000	30+025	30+050	30+075	30+100	30+125	30+150	30+175	30+200	30+225	30+250

 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP  TOURISM ROADS	H=1:1000	PLAN & PROFILE 29+880.00 - 30+240.00
		0			DRAWN	IFTIKHAR ABBAS			DATE:	
		b			CHECKED	S.DURRANI			AUG.	
c			APPROVED	AQEEL YOUNIS	2024.					
								 SCALE: H=1:1000 V=1:1000 DATE: AUG. 2024. SHEET CONTENT: CEC/KP-RRDP/HWN-SWT-T4/PP/ 84		





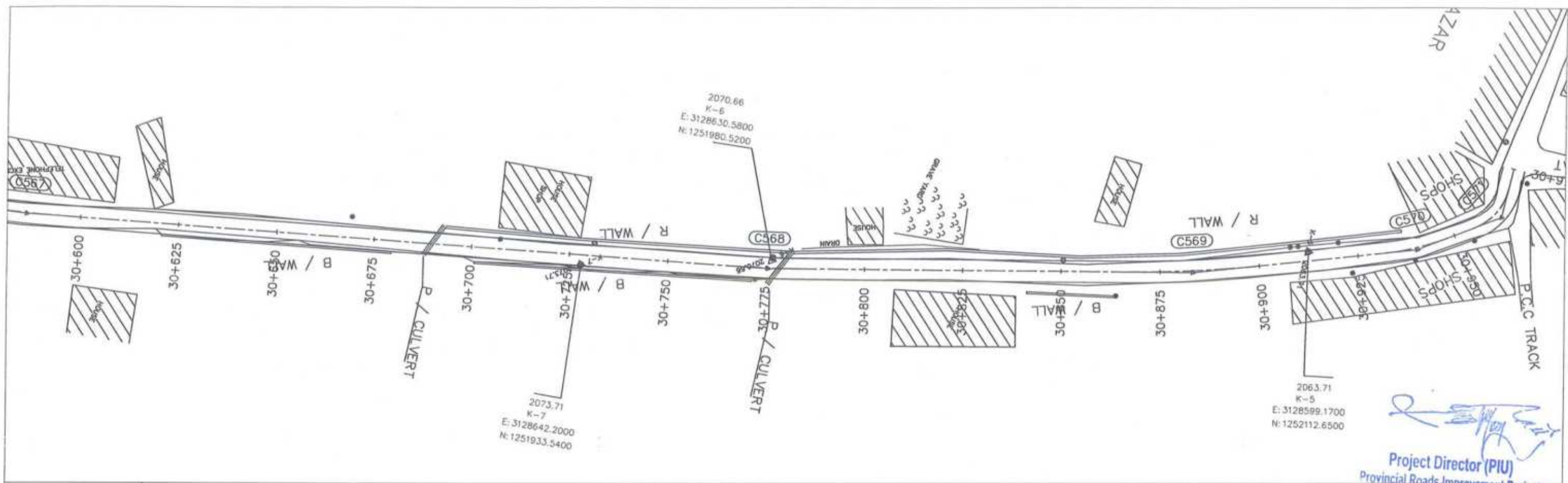
*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



F.R.L	2083.875	2083.463	2082.533	2082.158	2081.795	2081.398	2080.951	2081.346	2081.513	2081.112	2079.532	2077.462	2076.837	2076.114	2075.486	2076.503
N.S.L	2084.016	2083.711	2082.949	2082.317	2081.881	2081.506	2081.465	2081.764	2081.832	2081.125	2079.124	2077.598	2076.987	2076.523	2076.076	2076.503
STATION	30+240	30+250	30+275	30+300	30+325	30+350	30+375	30+400	30+425	30+450	30+475	30+500	30+525	30+550	30+575	30+600

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA</p> <p>COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P)</p> <p>J.V.</p> <p>CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		d	AUG.2024	Tender Drawings.	G.DESIGNED					S.DURRANI
		e			DRAWN					IFTIKHAR ABBAS
		b			CHECKED					S.DURRANI
		c			APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP	
						TOURISM ROADS		H=1:1000 V=1:1000	PLAN & PROFILE 30+240.00 - 30+600.00	
								DATE	ADG	
								2024	2024	
								C:\GKP-RRDP\11WIN-SWT-T4\PP\		
								85		






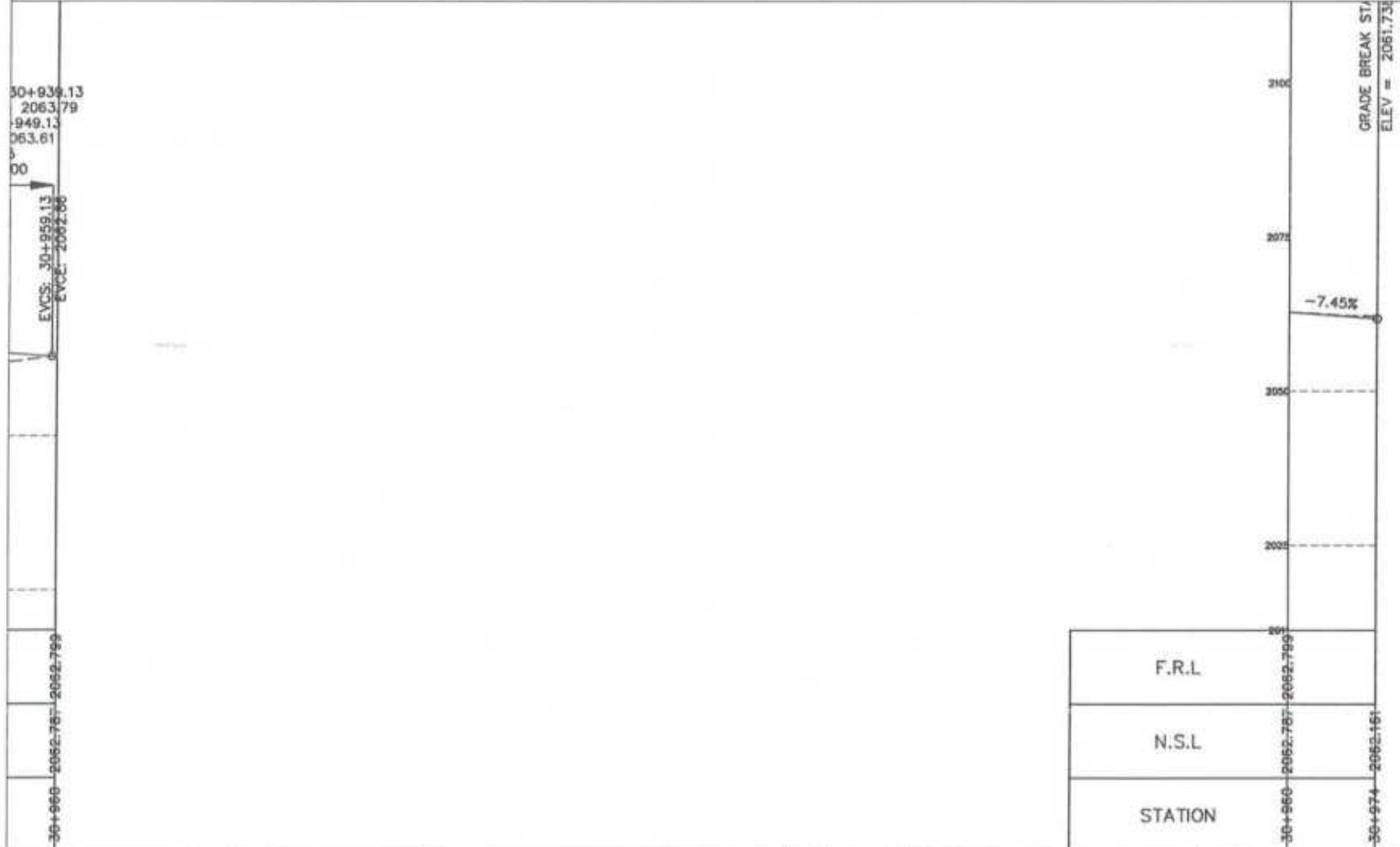
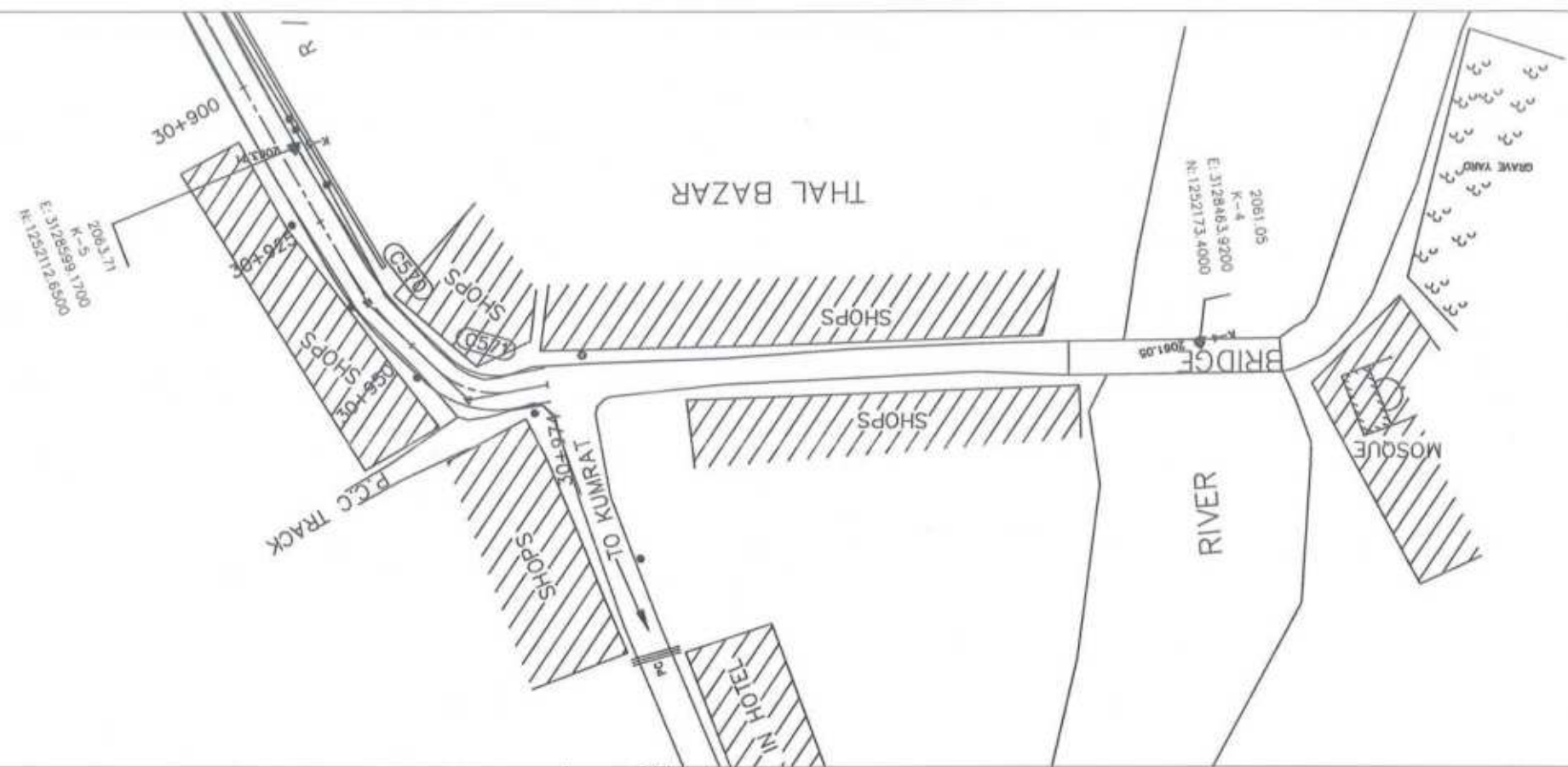
  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar



STATION	N.S.L	F.R.L
30+600	2075.55	2076.60
30+625	2076.75	2077.13
30+650	2075.99	2076.23
30+675	2075.40	2075.86
30+700	2074.96	2075.51
30+725	2074.74	2074.40
30+750	2073.14	2072.93
30+775	2071.66	2071.41
30+800	2069.96	2069.44
30+825	2067.93	2067.39
30+850	2065.89	2065.84
30+875	2064.74	2064.96
30+900	2064.29	2064.50
30+925	2063.89	2064.04
30+950	2062.87	2062.27

 <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58635-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT	
		d	AUG.2024	Tender Drawings.	G.DESIGNED	S.DURRANI	<b>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</b>	<b>N-SWT-T4 UTHROR TO THAL VIA BADGOI TOP</b>  <b>TOURISM ROADS</b>	H=1:1000	<b>PLAN &amp; PROFILE</b> 30+800.00 - 30+960.00
		e			DRAWN	IFTIKHAR ABBAS			DATE	
		b			CHECKED	S.DURRANI			AUG. 2024	
c			APPROVED	AQEEL YOUNIS	DEC/KP-RRDP/HWN-SWT-T4/PP/					





*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.

*[Signature]*



CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:
		0	AUG, 2024	Tender Drawings.	G. DESIGNED: S. DURRANI	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-SWT-T4	H=1:1000	PLAN & PROFILE
		a			DRAWN: IFTIKHAR ABBAS		UTHROR TO THAL VIA BADGOI TOP	V=1:1000	
		b			CHECKED: S. DURRANI		TOURISM ROADS	DATE:	
		c			APPROVED: AQEEL YOUNIS				AUG, 2024

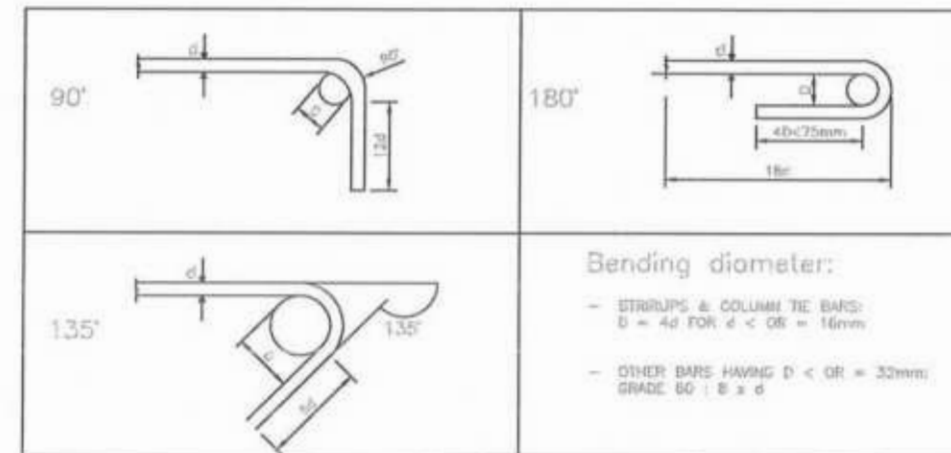


# GENERAL NOTES – CULVERTS

1. THE DESIGN IS IN ACCORDANCE WITH AASHTO "LFRD 2020" AND PAKISTAN CODE OF PRACTICE FOR HIGHWAY BRIDGES, 1967.
2. THE DESIGN IS BASED ON THE ASSUMPTION OF A HOMOGENEOUS FOUNDATION MATERIAL AT AND AROUND THE LOCATION OF THE CULVERT. IN CASE NON-HOMOGENEOUS MATERIAL IS ENCOUNTERED, CASE SHOULD BE REFERRED TO THE DESIGN ENGINEER FOR OPENION/REDESIGN.
3. ALL REINFORCING STEEL SHALL BE DEFORMED BARS GRADE 60, CONFORMING TO ASTM A – 615 STANDARDS HAVING 4200 Kg/Sq.Cm (60,000 PSI) MIN YIELD STRENGTH.
4. DESIGN OF SPECIFIED CONCRETE MIX SHALL BE SUBMITTED BY THE CONTRACTOR AND SHALL BE APPROVED FROM THE ENGINEER WELL BEFORE CONCRETING OF RELEVANT STRUCTURE ALONG WITH RESULT OF TEST SPECIMEN TESTED AS PER ASTM C – 39. TEST SPECIMEN SHALL BE MADE AND CURED IN ACCORDANCE WITH ASTM C – 31.
5. ORDINARY PORTLAND CEMENT, CONFORMING TO BS – 12/ PS – 232 SHALL BE USED IN ALL R.C.C WORKS.
6. CEMENT FROM DIFFERENT SOURCES SHALL NOT BE MIXED FOR THE SAME STRUCTURE, UNLESS APPROVED.
7. WELL GRADED CRUSHED STONE FROM APPROVED QUARRIES/SOURCES SHALL BE USED, AS COARSE AGGREGATE. MAXIMUM NOMINAL SIZE OF THE COARSE AGGREGATE SHALL BE 20MM FOR ALL R.C.C WORKS. IT SHALL BE CONFORM TO THE SPECIFICATIONS.
8. POTABLE WATER SHALL BE USED FOR CONCRETE & SHALL BE FREE OF ORGANIC & OTHER IMPURITIES.
9. UNLESS OTHERWISE NOTED ON THE DRAWINGS, ALL DIMENSIONS ARE IN MILLIMETERS IN BOX CULVERT DRAWINGS.
10. CONCRETE COVER PROVIDED FOR REINFORCEMENT SHALL BE AS SHOWN ON THE DRAWINGS.
11. ALL LAYOUT, CONFIGURATION, DIMENSIONS & LEVELS SHALL BE VERIFIED BEFORE PROCEEDING WITH WORK.
12. ALL REINFORCING BARS SHALL BE HELD FIRMLY IN PLACE BEFORE AND DURING THE POURING OF CONCRETE BY MEANS OF ADEQUATE NUMBER OF WIRES, CHAIRS AND SUPPORTS TO PREVENT DISLOCATION DURING THE COURSE OF CONSTRUCTION.
13. DURING CONSTRUCTION, SAFETY AND STABILITY OF STRUCTURE AND ALL THE TEMPORARY WORKS SHALL BE GIVEN PRIME IMPORTANCE. UTMOST CARE AND PRECAUTION SHALL BE EXERCISED BY THE CONTRACTOR DURING THE WORK AGAINST ANY MISHAP OR ACCIDENT.
14. CONCRETE TEST CYLINDERS / CUBES SHALL BE CURED WITH THE SAME METHOD AND CONDITIONS AS THOSE FOR THE CONCRETE WORK THEY REPRESENT.
15. THE CLASS OF CONCRETE BASED ON 28 DAYS' CYLINDER STRENGTH SHALL BE AS FOLLOWS:
  - BLINDING/LEAN CONCRETE                      100 Kg/Sq.Cm.
  - CULVERTS    280 Kg/Sq.Cm. (4000 PSI)
16. THE CONTRACTION JOINTS SHALL BE PROVIDED AROUND THE OVER ALL BARREL, AT INTERVAL 9M TO 12M ALONG THE LENGTH OF CULVERTS.
17. EXPANSION JOINTS SHALL BE PROVIDED AT THE CULVERT ENDS WHERE IT MEET THE WING WALLS AND APRON SLABS AND AT EACH 30M ALONG THE LENGTH OF CULVERT.
18. BACKFILLING AND COMPACTION SHALL BE CARRIED OUT USING APPROVED GRANULAR FILL/A3 MATERIAL IN LAYERS, NOT EXCEEDING 150MM, AND THE DIFFERENCE IN THE LEVELS OF BACKFILL ON EITHER SIDE OF CULVERT SHALL AT NO TIME EXCEED 50CM.
19. DETAILED BAR BENDING SCHEDULE SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED FOR ENGINEER'S APPROVAL. DEVELOPMENT / SPLICE / LAP LENGTH AND STANDARD HOOKS SHALL BE AS GIVEN BELOW.
20. TWO COATS OF HOT BITUMEN SHALL BE APPLIED TO ALL STRUCTURAL CONCRETE COMING IN CONTACT WITH EARTH WITHOUT ANY EXTRA COST.
21. CONCRETE SURFACE ON EXPANSION JOINT AT THE JUNCTION OF BASE SLAB OF BARREL AND APRON SLAB SHALL BE MADE FLUSH IRRESPECTIVE OF THICKNESS OF THE BASE SLAB OF BARREL AND APRON SLAB. SIMILARLY, CONCRETE SURFACE OF EXPANSION JOINT IN BARREL AND WING WALL SHALL BE FLUSH ON WATER SIDE.

22. AT LEAST A MINIMUM OF 300 MM DIFFERENCE SHOULD BE PROVIDED BETWEEN CULVERT TOP SLAB AND FRL.
23. DRAINAGE ENGINEER SHOULD PROVIDE MINIMUM SELF CLEANSING SLOPE FOR CULVERT. CONTRACTOR SHOULD MAKE SURE THAT THE CULVERTS ARE SELF CLEANSING WITH THE APPROVAL OF THE ENGINEER.
24. PRIOR TO THE CONSTRUCTION, CONTRACTOR SHOULD SUBMIT MIX DESIGN TO THE ENGINEER FOR APPROVAL THE DESIRE STRENGTH ACHIEVEMENT ON SITE IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR IRRESPECT OF THE CONDITION ON SITE.
25. SHOP DRAWING AND BBS CONFIRMING WITH DRAWING SHOULD BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER PRIOR TO THE CONSTRUCTION.
26. DETAILED BAR BENDING SCHEDULE SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED FOR ENGINEER'S APPROVAL.

Ø10	=	#3
Ø12 / Ø13	=	#4
Ø16	=	#5
Ø19 / Ø20	=	#6
Ø22	=	#7
Ø25	=	#8



BAR DIA (mm)	DEVELOPMENT LENGTH (mm)		SPLICE/LAP LENGTH (mm)	
	$f_c' = 210-280 \text{ kg/sq.cm}$ $f_y' = 4200 \text{ kg/sq.cm}$		$f_c' = 210-280 \text{ kg/sq.cm}$ $f_y' = 4200 \text{ kg/sq.cm}$	
	Straight Bar	Bar with Hook	Straight Bar	Bar with Hook
10.00	500.00	250.00	500.00	250.00
12.00	600.00	300.00	600.00	300.00
16.00	800.00	400.00	800.00	400.00
18.00	900.00	450.00	900.00	450.00
20.00	1000.00	500.00	1000.00	500.00
22.00	1100.00	550.00	1100.00	550.00
25.00	1250.00	625.00	1250.00	625.00

  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar



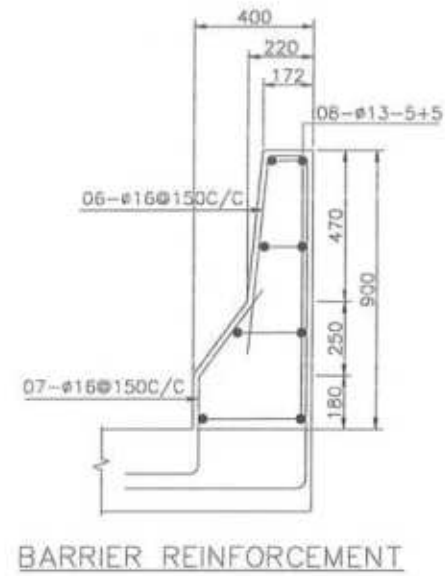
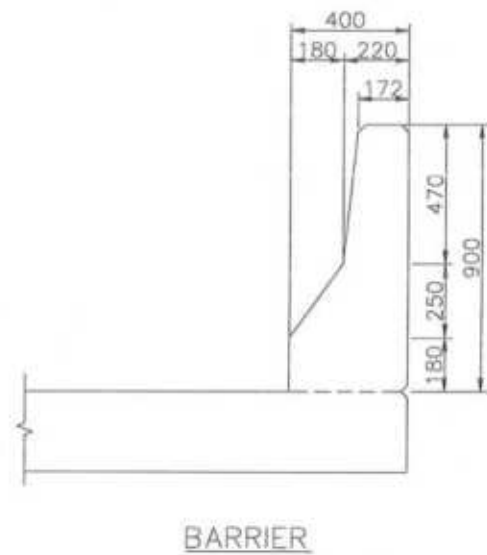
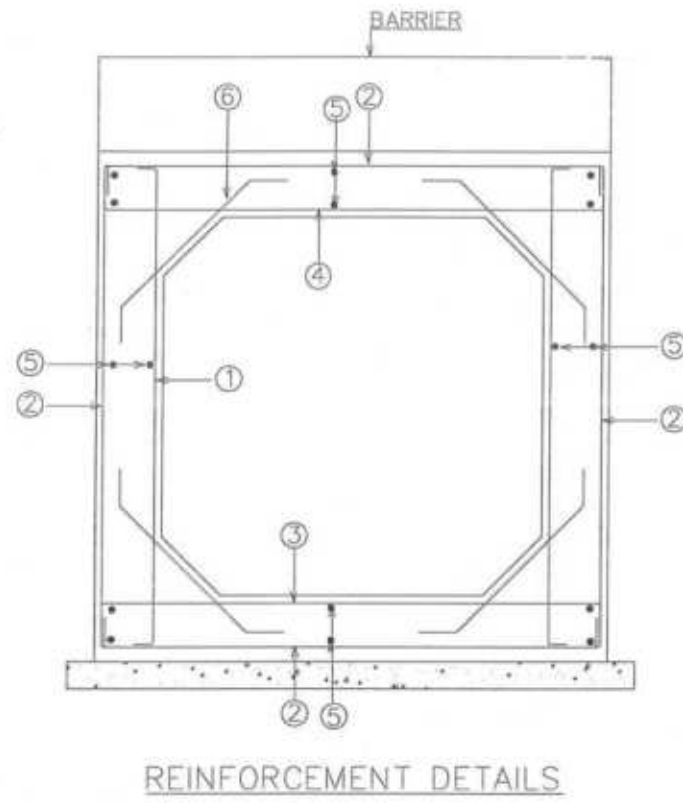
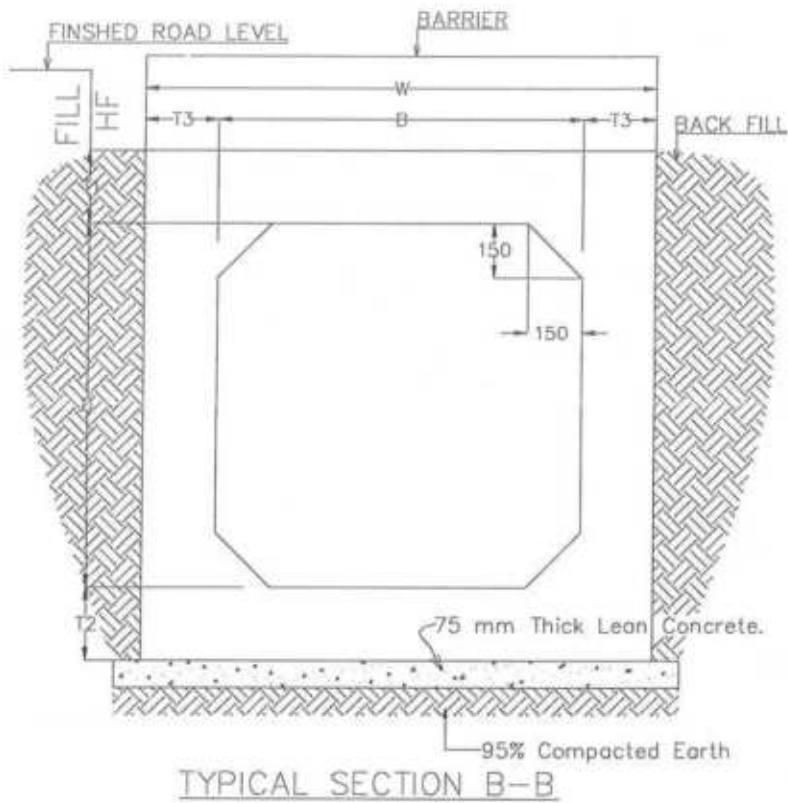


<b>CLIENT:</b>	GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>DESIGN CONSULTANT:</b>	(MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	<b>REV</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>NAMES:</b>	<b>PROJECT:</b>	<b>SCALE:</b>	<b>SHEET CONTENT:</b>	
				a	SEP. 2024	TENDER DRAWINGS	DESIGNED: M.FAIZAN DRAWN: MUSHTAQ CHECKED: M.ISLAM APPROVED: AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6  LOT-2	N.T.S  DATE: SEP. 2024	GENERAL NOTES FOR CULVERTS  DWG NO: CEC/KPRRDP/STR/STR-01









Project Director (PIU)  
Rural Roads Improvement Project  
Road Department Peshawar.

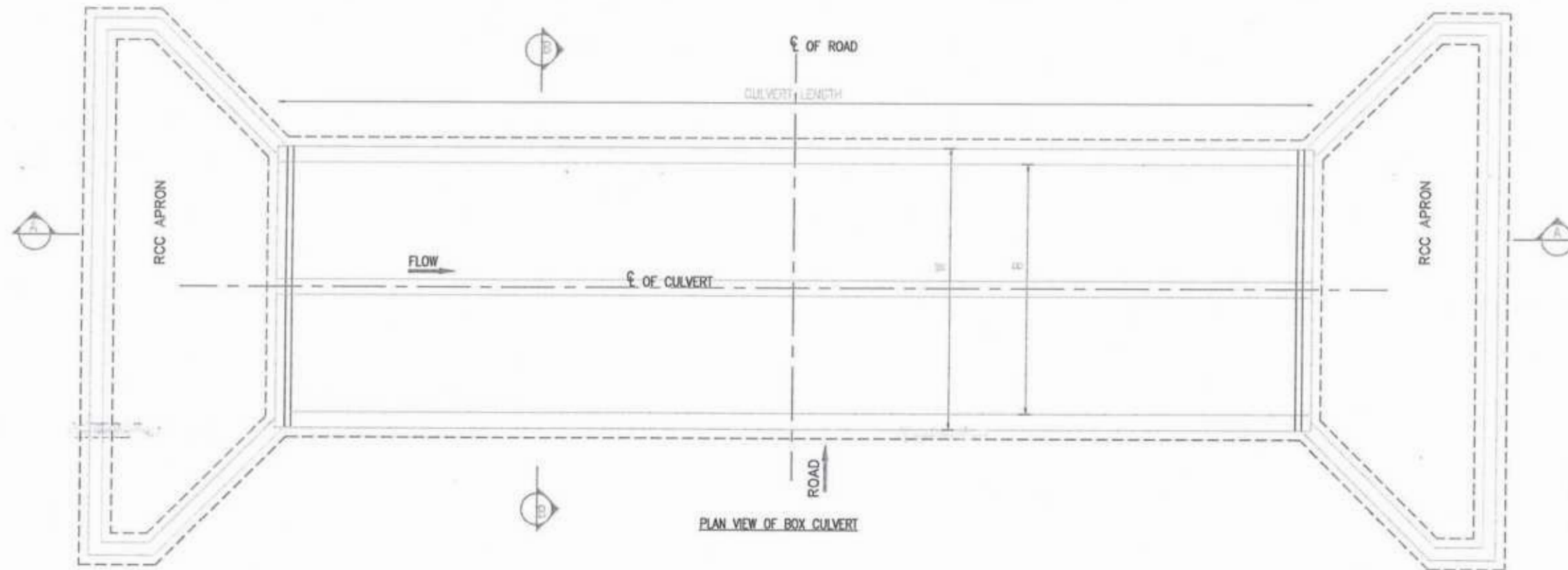


SINGLE CELL BOX CULVERT DIMENSION AND REINFORCEMENT												
B	D	FILL HF	T1	T2	T3	W	BAR 1	BAR 2	BAR 3	BAR 4	BAR 5	BAR 6
							DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C
1000	1000	300-600	250	250	250	1500	16-150	16-150	16-150	16-150	10-150	10-150
		601-1000	200	200	200	1400	12-150	16-150	16-150	16-150	10-150	10-150
		1001-2000	200	200	200	1400	12-150	12-150	12-150	16-150	10-150	10-150
1000	1500	300-600	250	250	250	1500	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	200	200	200	1400	16-150	16-150	16-150	20-150	10-150	10-150
		1001-2000	200	200	200	1400	16-150	16-150	12-150	16-150	10-150	10-150
1500	1000	300-600	275	275	225	1950	20-200	20-200	16-150	20-200	10-150	10-150
		601-1000	225	225	225	1950	16-150	16-150	16-150	20-200	10-150	10-150
		1001-2000	225	225	225	1950	16-150	16-150	12-150	16-150	10-150	10-150
2000	1000	300-600	300	315	250	2500	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	250	250	250	2500	16-150	20-150	16-150	20-150	10-150	10-150
		1001-2000	250	250	250	2500	16-150	16-150	16-150	16-150	10-150	10-150
2500	1000	300-600	325	325	300	3100	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	275	275	275	3050	16-150	20-150	16-150	20-150	10-150	10-150
		1001-2000	275	275	275	3050	16-150	16-150	16-150	16-150	10-150	10-150
1500	1500	300-600	275	275	225	1950	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	225	225	225	1950	16-150	16-150	16-150	20-150	10-150	10-150
		1001-2000	225	225	225	1950	16-150	16-150	12-150	16-150	10-150	10-150
2000	1500	300-600	300	315	250	2500	20-200	20-200	20-200	20-200	10-150	10-150
		601-1000	250	250	250	2500	16-150	16-150	16-150	20-200	10-150	10-150
		1001-2000	250	250	250	2500	16-150	16-150	16-150	16-150	10-150	10-150
2500	1500	300-600	325	325	300	3050	20-150	20-150	20-150	20-150	10-150	10-150
		601-1000	275	275	275	3050	16-150	20-150	16-150	20-150	10-150	10-150
		1001-2000	275	275	275	3050	16-150	16-150	16-150	16-150	10-150	10-150
3000	1500	300-600	400	415	325	3650	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	300	300	300	3600	16-150	20-150	16-150	16-150	10-150	10-150
		1001-2000	300	300	300	3600	20-200	20-200	20-200	20-200	10-150	10-150
2000	2000	300-600	300	315	250	2500	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	250	250	250	2500	16-150	20-150	16-150	20-200	10-150	10-150
		1001-2000	250	250	250	2500	16-150	16-150	16-150	16-150	10-150	10-150
2000	2500	300-600	300	325	275	2550	20-150	20-150	16-150	20-150	10-150	10-150
		601-1000	250	275	275	2550	16-150	20-150	16-150	20-200	10-150	10-150
		1001-2000	250	275	275	2550	16-150	16-150	16-150	16-150	10-150	10-150
2500	2000	300-600	325	325	325	3150	20-150	20-150	20-150	20-150	12-150	12-150
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3000	2000	300-600	400	425	325	3650	20-150	20-150	20-150	20-150	12-150	12-150
		601-1000	300	275	275	3550	16-150	20-150	16-150	20-150	12-150	12-150
		1001-2000	300	275	275	3550	20-200	20-200	20-200	20-200	12-150	12-150
3000	3000	300-600	400	425	350	3700	20-150	20-150	20-150	20-150	12-150	12-150
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4000	2000	300-600	500	500	350	4700	20-125	20-125	20-150	20-100	12-150	12-150
		601-1000	350	350	350	4700	20-150	20-150	20-150	20-100	12-150	12-150
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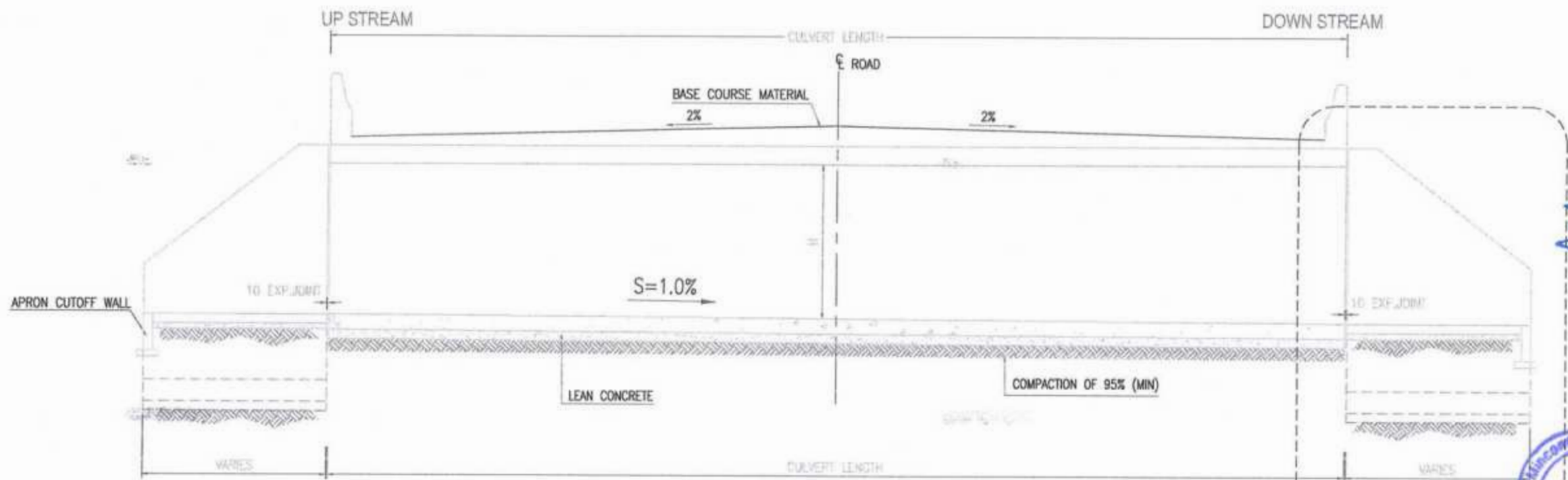
- NOTES:-
- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED.
  - 2- ALL CONCRETE SHALL BE REINFORCED CONCRETE CLASS A3.
  - 3- REINFORCEMENT FOR REINFORCED CONCRETE SHALL BE DEFORMED BAR OF (GRADE 60) CONFORMING TO AASHTO M-31(ASTM A615) WITH MINIMUM YIELD STRENGTH OF 4200 kg/sq.cm (60,000 psi)."
  - 4- ALL FACES OF CONCRETE IN CONTACT WITH SOIL SHALL BE DAMP PROOFED WITH 2 LAYERS OF BITUMINOUS COATING MATERIAL.
  - 5- THE DEPTH OF SELECT FILL SHALL BE DECIDED BY THE ENGINEER AT SITE, 300mm SHALL BE (min.).
  - 6- WING WALLS SHALL BE AT LEAST 45° FOR SKEW 0, HOWEVER IF SKEW IT SHALL BE FINALIZED AS PER SITE REQUIREMENT.
  - 7- CONCRETE COVER: OUTER SIDE = 50mm, INNER SIDE = 40mm, BOTTOM = 40mm & TOP = 40mm

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	SEP, 2024	TENDER DRAWINGS	DESIGNED: M.FAIZAN	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6  LOT-2	N.T.S  DATE: SEP, 2024 DWG NO:CEC/KP/RRDP/STR/6TR-028
		*			DRAWN: MUSHTAQ			
		1			CHECKED: M.ISLAM			
		2			APPROVED: AOFFI YOUSIF			





*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 & W Department Peshawar.



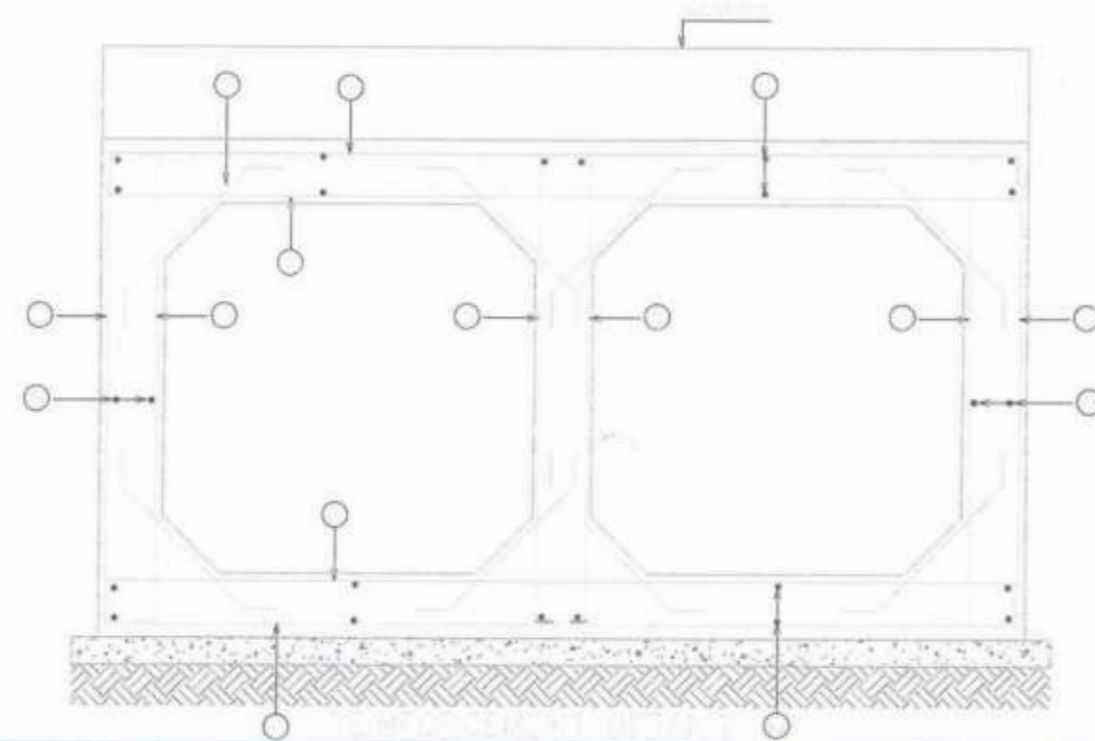
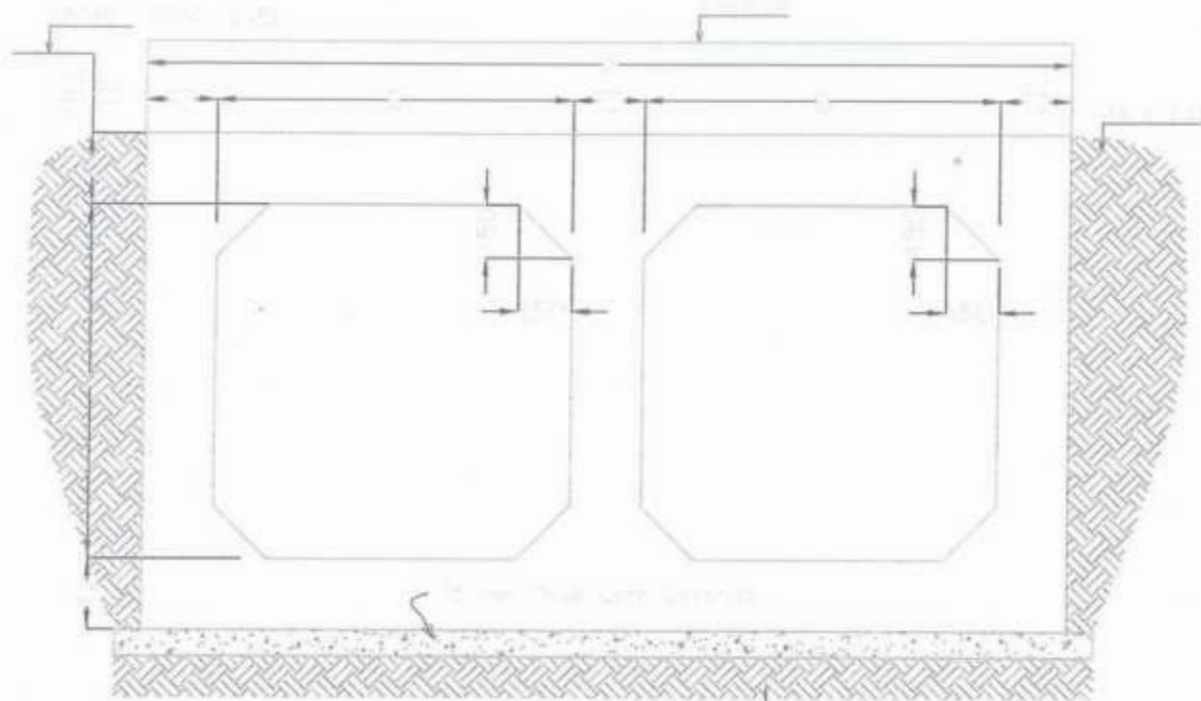
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SEE DETAIL ON APRON & WING WALL DWG.

CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: MINCONSULT SDN BHD (COMPANY NO. 5835 P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	SCALE:	SHEET CONTENT:
		0	SEP, 2024	TENDER DRAWINGS	DESIGNED: M.FAIZAN DRAWN: MUSHTAQ CHECKED: M.ISLAM APPROVED: ADEL KHAN	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6  LOT-2	N.T.S  DATE: SEP.

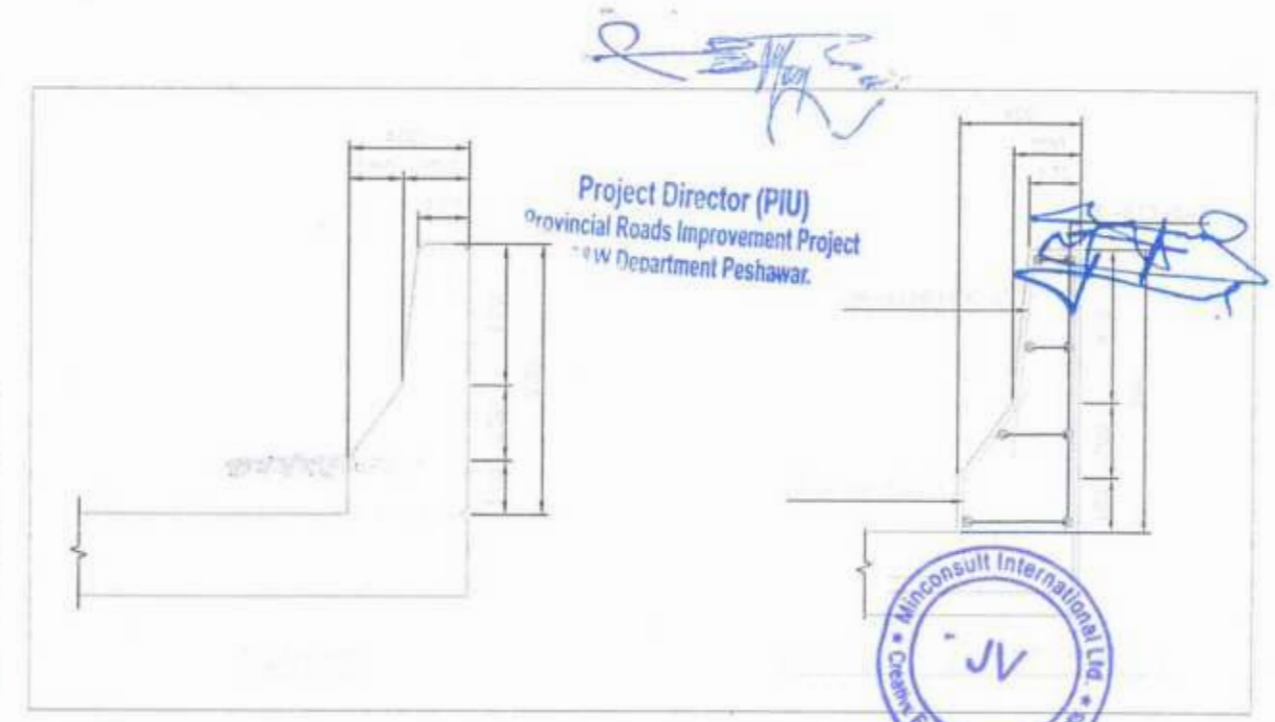




TWO CELL BOX CULVERT DIMENSION AND REINFORCEMENT													
SIZE		FILL HF	T1	T2	T3	W	BAR 1	BAR 2	BAR 3	BAR 4	BAR 5	BAR 6	BAR 7
B	D						DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C
2000	1000	300-600	300	315	250	4750	16-150	20-150	16-150	20-150	16-150	12-200	12-200
		601-1000	250	250	250	4750	16-150	16-150	16-150	20-150	16-150	12-200	12-200
		1001-2000	250	250	250	4750	16-150	16-150	16-150	20-175	16-150	12-200	12-200
2500	1000	300-600	325	325	300	5900	20-150	20-150	20-175	20-125	16-150	12-200	12-200
		601-1000	275	275	275	5825	20-150	20-150	20-175	20-125	16-150	12-200	12-200
		1001-2000	275	275	275	5825	16-150	20-150	20-175	20-125	16-150	12-200	12-200
2000	1500	300-600	300	315	250	4750	16-150	20-150	20-150	20-150	16-150	12-200	12-200
		601-1000	250	250	250	4750	16-150	16-150	20-150	20-150	16-150	12-200	12-200
		1001-2000	250	250	250	4750	16-150	16-150	20-150	20-150	16-150	12-200	12-200
3000	1500	300-600	400	415	325	6975	16-125	20-125	20-150	20-100	20-200	12-200	12-200
		601-1000	300	300	300	6900	16-150	20-150	20-150	20-100	20-200	12-200	12-200
		1001-2000	300	300	300	6900	16-150	20-150	20-150	20-150	20-200	12-200	12-200
2000	2000	300-600	300	315	250	4750	16-150	20-150	20-150	20-150	16-170	12-200	12-200
		601-1000	250	250	250	4750	16-150	20-150	20-150	20-150	16-150	12-200	12-200
		1001-2000	250	250	250	4750	16-150	20-150	16-150	20-150	16-150	12-200	12-200
3000	2000	300-600	400	425	325	6975	16-125	20-125	20-125	20-125	20-175	12-200	12-200
		601-1000	300	300	300	6900	16-150	20-150	20-150	20-150	20-175	12-200	12-200
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4000	2000	300-600	500	500	350	9050	20-125	20-125	20-125	20-100	20-150	12-200	12-200
		601-1000	350	350	350	9050	20-150	20-150	20-150	20-100	20-150	12-200	12-200
		1001-2000	250	250	250	8750	20-170	20-170	20-170	20-100	20-150	12-200	12-200

**NOTES:-**

- 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED.
- 2- ALL CONCRETE SHALL BE REINFORCED CONCRETE CLASS A3.
- 3- REINFORCEMENT FOR REINFORCED CONCRETE SHALL BE DEFORMED BAR OF (GRADE 60) CONFORMING TO AASHTO M-31(ASTM A615) WITH MINIMUM YIELD STRENGTH OF 4200 kg/sq.cm (60,000 psi).
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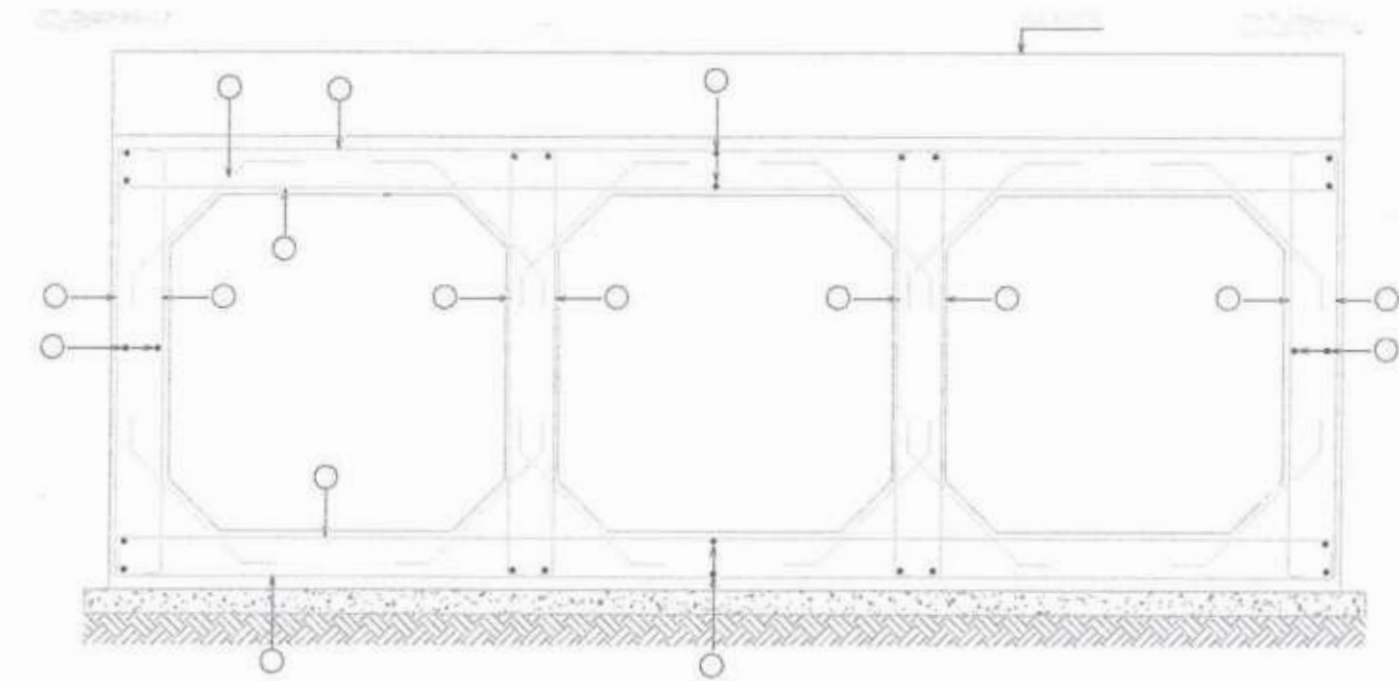
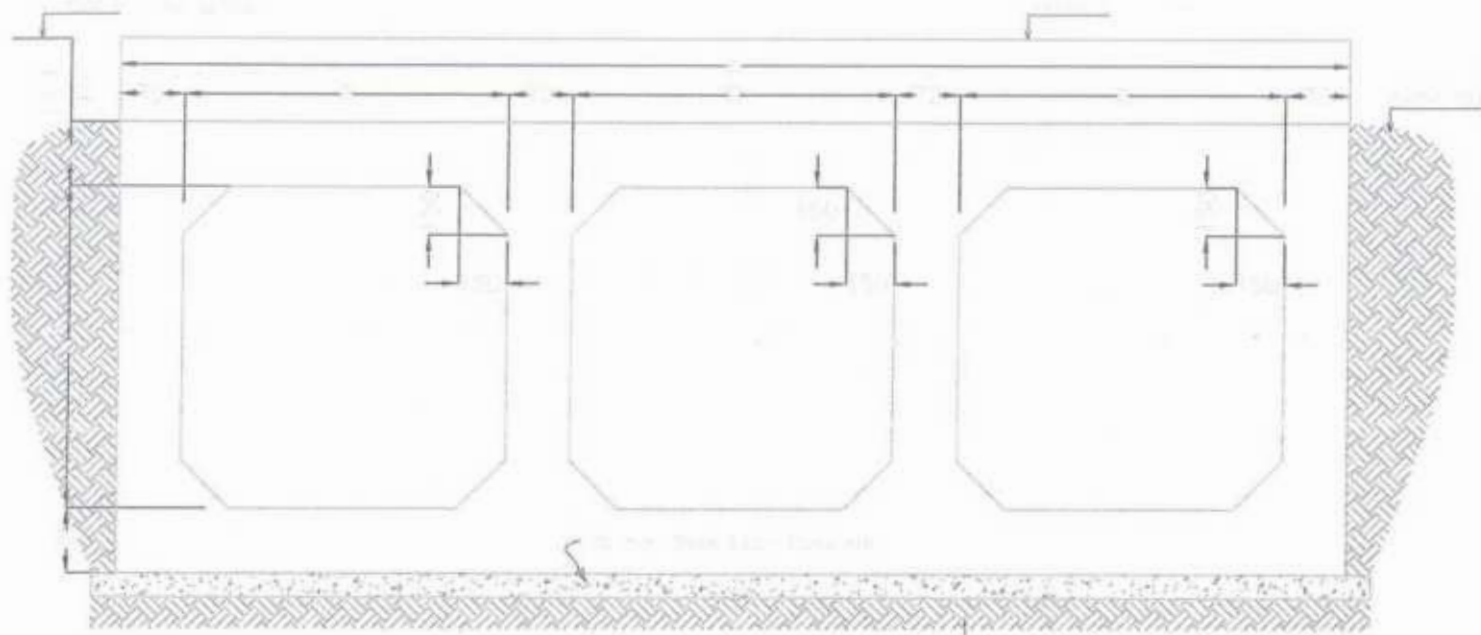


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	SCALE:	SHEET NO/CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 51875-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	SEP, 2024	TENDER DRAWINGS	DESIGNED: M.FAZAN DRAWN: MUSHTAQ CHECKED: M.ISLAM APPROVED: AQUEEL YOUSUF	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6 LOT-2	N.T.S DATE: SEP, 2024 DRAWING NO: CEC/RRDP/STR/2024/001



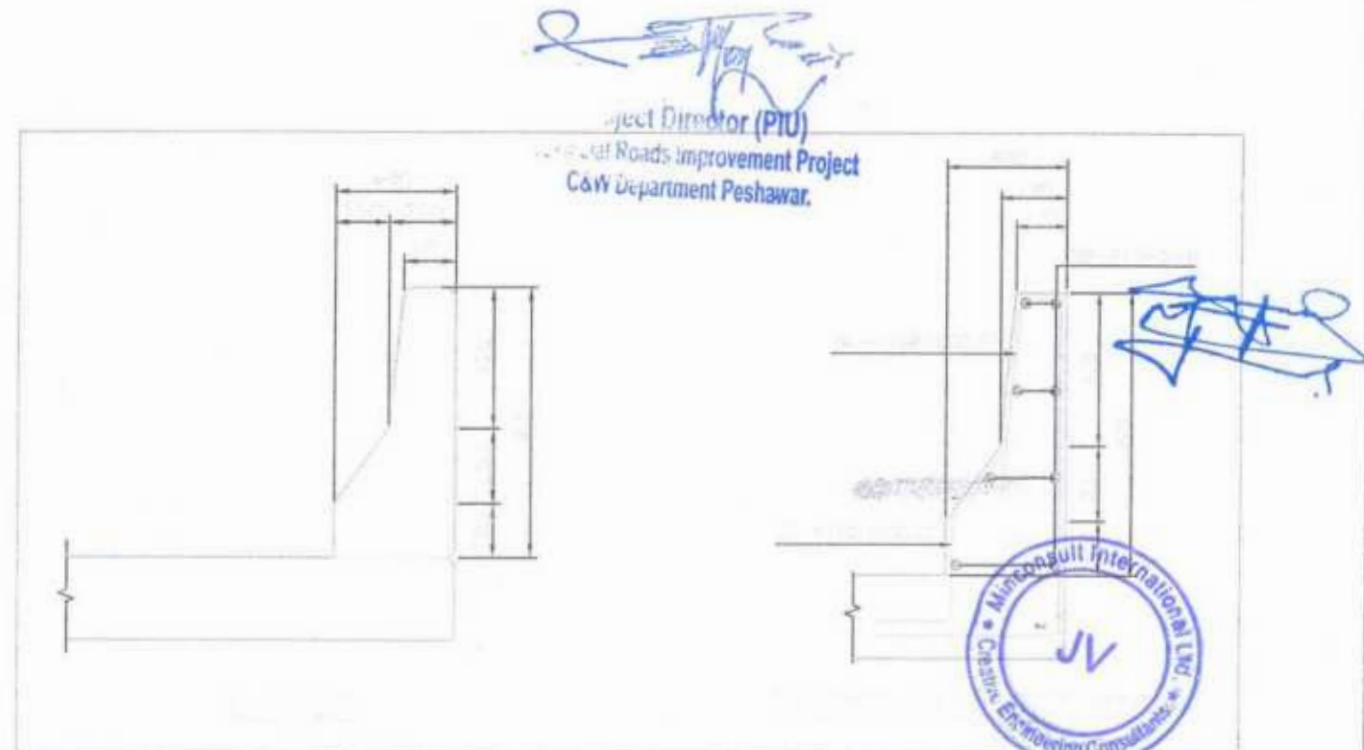






THREE / MULTI CELL BOX CULVERT DIMENSION AND REINFORCEMENT													
SIZE		FILL HF	T1	T2	T3	W	BAR 1	BAR 2	BAR 3	BAR 4	BAR 5	BAR 6	BAR 7
B	D						DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C	DIA-C/C
2000	1000	300-600	300	315	250	7000	16-150	20-150	16-150	20-150	16-150	12-200	12-200
		601-1000	250	250	250	7000	16-150	16-150	16-150	20-150	16-150	12-200	12-200
		1001-2000	250	250	250	7000	16-150	16-150	16-150	20-175	16-150	12-200	12-200
2500	1000	300-600	325	325	300	8700	20-150	20-150	20-175	20-125	16-150	12-200	12-200
		601-1000	275	275	275	8600	20-150	20-150	20-175	20-125	16-150	12-200	12-200
		1001-2000	275	275	275	8600	16-150	20-150	20-175	20-125	16-150	12-200	12-200
2000	1500	300-600	300	315	250	7000	16-150	20-150	20-150	20-150	16-150	12-200	12-200
		601-1000	250	250	250	7000	16-150	16-150	20-150	20-150	16-150	12-200	12-200
		1001-2000	250	250	250	7000	16-150	16-150	20-150	20-150	16-150	12-200	12-200
3000	1500	300-600	400	415	325	10300	16-125	20-125	20-150	20-100	20-200	12-200	12-200
		601-1000	300	300	300	10200	16-150	20-150	20-150	20-100	20-200	12-200	12-200
		1001-2000	300	300	300	10200	16-150	20-150	20-150	20-150	20-200	12-200	12-200
2000	2000	300-600	300	315	250	7000	16-150	20-150	20-150	20-150	16-170	12-200	12-200
		601-1000	250	250	250	7000	16-150	20-150	20-150	20-150	16-150	12-200	12-200
		1001-2000	250	250	250	7000	16-150	20-150	16-150	20-150	16-150	12-200	12-200
3000	2000	300-600	400	425	325	10300	16-125	20-125	20-125	20-125	20-175	12-200	12-200
		601-1000	300	300	300	10200	16-150	20-150	20-150	20-150	20-175	12-200	12-200
		1001-2000	300	300	300	10200	20-170	20-170	20-170	20-170	20-175	12-200	12-200
4000	2000	300-600	500	500	350	13400	20-125	20-125	20-125	20-100	20-150	12-200	12-200
		601-1000	350	350	350	13400	20-150	20-150	20-150	20-100	20-150	12-200	12-200
		1001-2000	250	250	250	13000	20-170	20-170	20-170	20-100	20-150	12-200	12-200
3000	3000	300-600	400	415	375	10500	16-125	20-125	20-125	20-125	20-125	12-125	12-125
		601-1000	300	300	300	10200	16-150	20-150	20-150	20-150	20-125	12-150	12-150
		1001-2000	300	300	300	10200	20-170	20-170	20-170	20-170	20-125	12-170	12-170

**NOTES:-**  
 1- ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED.  
 2- ALL CONCRETE SHALL BE REINFORCED CONCRETE CLASS A3.  
 3- REINFORCEMENT FOR REINFORCED CONCRETE SHALL BE DEFORMED BAR OF (GRADE 60) CONFORMING TO AASHTO M-31(ASTM A615) WITH MINIMUM YIELD STRENGTH OF 4200 kg/sq.cm (60,000 psi).  
 4- ALL FACES OF CONCRETE IN CONTACT WITH SOIL SHALL BE DAMP PROOFED WITH 2 LAYERS OF BITUMINOUS COATING MATERIAL.  
 5- THE DEPTH OF SELECT FILL SHALL BE DECIDED BY THE ENGINEER AT SITE, 300mm SHALL BE (min).  
 6- WING WALLS SHALL BE AT LEAST 45° FOR SKEW 0, HOWEVER IF SKEW IT SHALL BE FINALIZED AS PER SITE REQUIREMENT.  
 7- CONCRETE COVER: OUTER SIDE = 50mm, INNER SIDE = 40mm, BOTTOM = 40mm & TOP = 40mm

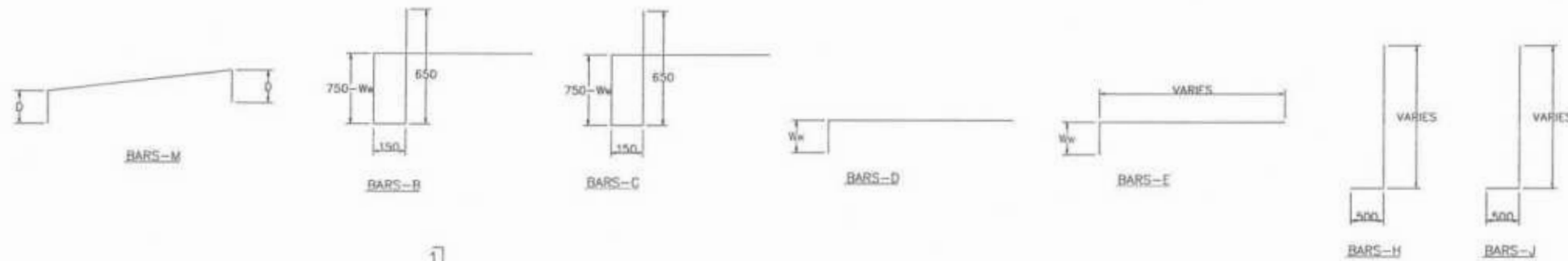


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	DESIGN CONSULTANT: (MIN - JV - CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	SCALE:	SHEET CONTENT:
	<p>MINCONSULT SDN BHD (COMPANY NO. 16325-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	SEP, 2024	TENDER DRAWINGS	DESIGNED: M.FAIZAN	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6	THREE/MULTI CELL BOX CULVERT SECTION & REINFORCEMENT DETAIL
					DRAWN: MUSHTAQ		LOT-2	N.T.S
					CHECKED: M.ISLAM		DATE:	
					APPROVED: AQEEL YOUSUF		SEP.	



APRON & WINGWALLS DIMENSIONS & REINFORCEMENTS

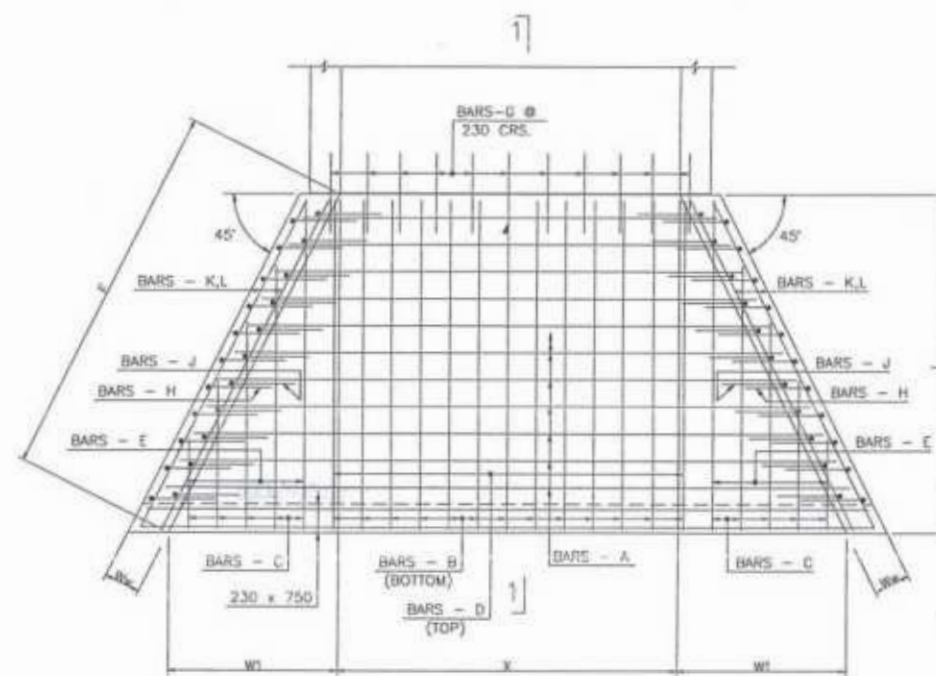
BOX DIMENSIONS			APRON & WING WALL DIMENSIONS							BAR - A			BAR - B			BAR - C			BAR - D			BAR - E			BAR - F			BAR - G			BAR - H			BAR - J			BAR - K			BAR - L			BAR - M							
S	H	Tl	X	L	E	Wt	Ww	D	DIA	Nos. of Bars	MIN Length	MAX Length	DIA	Nos. of Bars	Cut Length	DIA	Nos. of Bars	MIN Length	MAX Length	DIA	Nos. of Bars	Cut Length	DIA	Nos. of Bars	MIN Length	MAX Length	DIA	Nos. of Bars	Cut Length	DIA	Nos. of Bars	MIN Length	MAX Length	DIA	Nos. of Bars	Cut Length	DIA	Nos. of Bars	MIN Length	MAX Length										
1500	1000	250	1500	1000	1415	1000	250	650	12#	5 x 2	2100	4100	10#	9	2220	10#	5+5	1620	2220	10#	9	1170	10#	5+5	570	1170	12#	6	4100	12#	8	1200	10#	9x2	1360	2275	10#	9x2	1360	2275	10#	5x4	180	1170	10#	4x2	1315	12#	2+2	2935
	1500	250	1500	1500	2122	1500	250	650	12#	10 x 2	2100	5100	10#	9	2720	10#	7+7	1750	2720	10#	9	1670	10#	7+7	700	1670	12#	6	5100	12#	8	1200	10#	13x2	1400	2775	10#	13x2	1400	2775	10#	7x4	400	1675	10#	4x2	2025	12#	2+2	3800
	2000	300	1500	2000	2630	2000	250	700	12#	15 x 2	2100	6100	12#	9	3220	12#	9+9	1670	3220	12#	9	2170	12#	9+9	820	2170	16#	6	6100	12#	8	1200	12#	17x2	1490	3325	12#	17x2	1490	3325	10#	10x4	290	2510	10#	4x2	2730	16#	2+2	4767
2000	1000	300	2000	1000	1415	1000	250	700	12#	5 x 2	2600	4800	10#	12	2220	10#	5+5	1620	2220	10#	12	1170	10#	5+5	570	1170	12#	6	4600	12#	10	1200	12#	9x2	1410	2325	12#	9x2	1410	2325	10#	5x4	180	1170	10#	4x2	1315	12#	2+2	3035
	1500	300	2000	1500	2122	1500	250	700	12#	10 x 2	2600	5600	10#	12	2720	10#	7+7	1750	2720	10#	12	1670	10#	7+7	700	1670	12#	6	5600	12#	10	1200	12#	13x2	1450	2825	12#	13x2	1450	2825	10#	7x4	400	1675	10#	4x2	2025	12#	2+2	3900
	2000	300	2000	2000	2630	2000	250	700	12#	15 x 2	2600	6600	12#	12	3220	12#	9+9	1670	3220	12#	12	2170	12#	9+9	820	2170	16#	6	6600	12#	10	1200	12#	17x2	1480	3325	12#	17x2	1480	3325	10#	10x4	290	2510	10#	4x2	2730	16#	2+2	4767
	3000	300	2000	3000	4243	3000	250	700	12#	25 x 2	2600	8600	12#	12	4220	12#	14+14	1670	4220	12#	12	3170	12#	14+14	820	3170	16#	6	8600	12#	10	1200	12#	26x2	1480	4325	12#	26x2	1480	4325	10#	14x4	550	4000	10#	4x2	4140	16#	2+2	6486
2500	1000	350	2500	1000	1415	1000	250	750	12#	5 x 2	3100	5100	10#	14	2220	10#	5+5	1620	2220	10#	14	1170	10#	5+5	570	1170	12#	6	5100	12#	13	1200	10#	9x2	1460	2375	10#	9x2	1460	2375	10#	5x4	180	1170	10#	4x2	1315	12#	2+2	3130
	1500	350	2500	1500	2122	1500	250	750	12#	10 x 2	3100	6100	10#	14	2720	10#	7+7	1750	2720	10#	14	1670	10#	7+7	700	1670	12#	6	6100	12#	13	1200	10#	13x2	1500	2875	10#	13x2	1500	2875	10#	7x4	400	1675	10#	4x2	2025	12#	2+2	4000
	2000	350	2500	2000	2630	2000	250	750	12#	15 x 2	3100	7100	12#	14	3220	12#	9+9	1670	3220	12#	14	2170	12#	9+9	820	2170	16#	6	7100	12#	13	1200	12#	17x2	1540	3375	12#	17x2	1540	3375	10#	10x4	290	2510	10#	4x2	2730	16#	2+2	4867
	2500	350	2500	2500	3536	2500	250	750	12#	20 x 2	3100	8100	12#	14	3710	12#	12+12	1670	3710	12#	14	2670	12#	12+12	820	2670	16#	6	8100	12#	13	1200	12#	22x2	1460	3875	12#	22x2	1460	3875	10#	12x4	450	3360	10#	4x2	3420	16#	2+2	5930
3000	1000	350	3000	1000	1415	1000	250	800	12#	5 x 2	3600	5600	10#	17	2220	10#	5+5	1620	2220	10#	17	1170	10#	5+5	570	1170	12#	6	5600	12#	15	1200	10#	9x2	1510	2425	10#	9x2	1510	2425	10#	5x4	180	1170	10#	4x2	1315	12#	2+2	3235
	1500	350	3000	1500	2122	1500	250	800	12#	10 x 2	3600	6600	10#	17	2720	10#	7+7	1750	2720	10#	17	1670	10#	7+7	700	1670	12#	6	6600	12#	15	1200	10#	13x2	1550	2925	10#	13x2	1550	2925	10#	7x4	400	1675	10#	4x2	2025	12#	2+2	4100
	2000	350	3000	2000	2630	2000	250	800	12#	15 x 2	3600	7600	12#	17	3220	12#	9+9	1670	3220	12#	17	2170	12#	9+9	820	2170	16#	6	7600	12#	15	1200	12#	17x2	1590	3425	12#	17x2	1590	3425	10#	10x4	290	2510	10#	4x2	2730	16#	2+2	4867
	2500	350	3000	2500	3536	2500	250	800	12#	20 x 2	3600	8600	12#	17	3710	12#	12+12	1670	3710	12#	17	2670	12#	12+12	820	2670	16#	6	8600	12#	15	1200	12#	22x2	1510	3875	12#	22x2	1510	3875	10#	12x4	450	3360	10#	4x2	3420	16#	2+2	6030



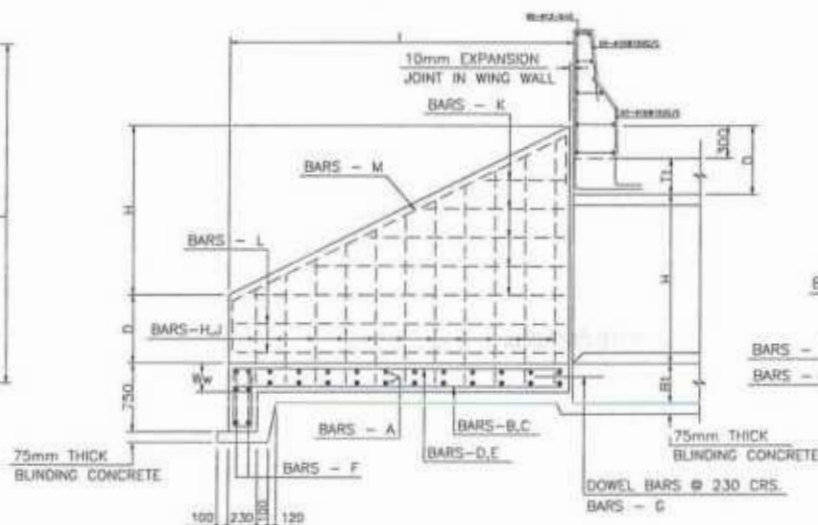
NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
- ALL STRUCTURAL CONCRETE SHALL BE CLASS-A3 HAVING COMPRESSIVE STRENGTH OF 280 Kg/cm<sup>2</sup>
- ALL STRUCTURAL REINFORCEMENT SHALL BE OF GRADE-60 STEEL, CONFORMING TO ASTM A-615.
- MINIMUM COVER TO THE REINFORCEMENT TO BE 40mm.

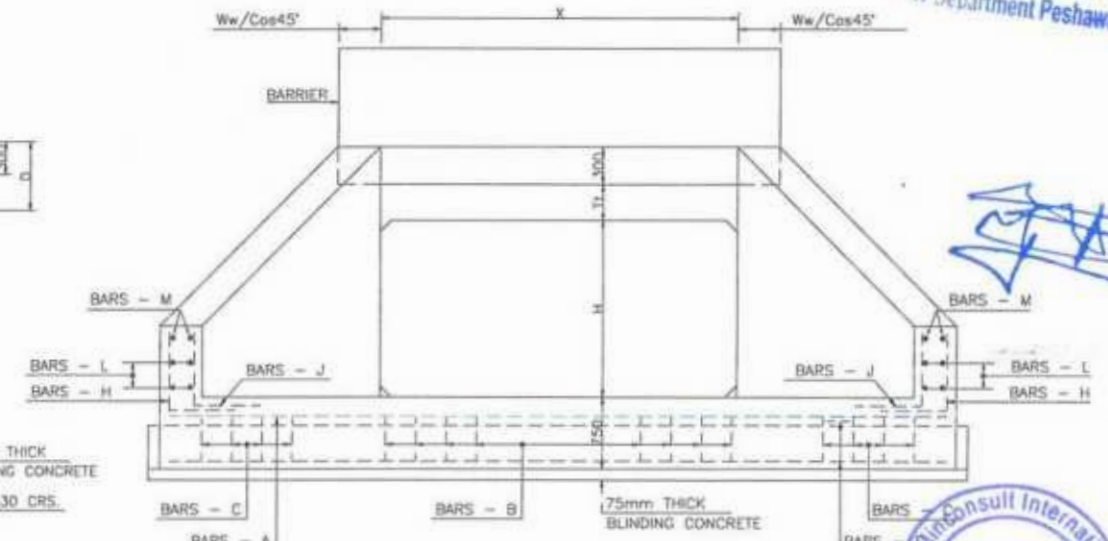
*[Signature]*  
Project Director (PIU)  
Rural Roads Improvement Project  
& Department Peshawar.



PLAN OF SLAB AT GROUND LEVEL



TYP. SEC. 1 - 1



END ELEVATION  
INTERNAL WALL (IF ANY) OMITTED FOR CLARITY.

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	DESIGN CONSULTANT: (MIN - JV - CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	SCALE:	SHEET CONTENT:
	<p>MINCONSULT SDN BHD (COMPANY NO. 5835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	SEP, 2024	TENDER DRAWNGS	DESIGNED: M.FAIZAN DRAWN: MUSHTAQ CHECKED: M.ISLAM	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6 LOT-2	REINFORCEMENT DETAIL OF BOX CULVERT APRON & WING WALL





DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH AASHTO STANDARDS FOURTEENTH EDITION 1986 AND THE GENERAL SPECIFICATION OF THIS CONTRACT.

**PIPE CULVERT NOTES**

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
2. CLASS 'C' CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 310 KG PER CM<sup>2</sup> AT 28 DAYS.
3. CLASS 'A' CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 280 KG PER CM<sup>2</sup> AT 28 DAYS.
4. LEAN CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 100 KG PER CM<sup>2</sup> AT 28 DAYS.
5. CONCRETE PIPE SHALL CONFORM TO ASTM M-170, "REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE (C-70)" SPECIFICATIONS.
6. ALL SUBSTRUCTURE FOOTINGS SHALL BE SUBJECT TO APPROVAL BY THE ENGINEER.
7. ALL ELEVATIONS SHOWN ARE ESTIMATED AND SUBJECT TO CHANGE TO SUITE FIELD CONDITIONS.
8. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 20 MM.
9. FOR CULVERT LOCATION, TYPE, SKEW ANGLE AND INVERT ELEVATION REFER TO ROAD ALIGNMENT, PROFILE DRAWING AND SCHEDULE OF CULVERTS.
10. ACTUAL LOCATION, LENGTH, SKEW ANGLE AND INVERT ELEVATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION AT SITE.
11. PROVIDE MINIMUM 300 MM FILL OVER THE TOP OF PIPE CULVERT.

**MORTAR :**

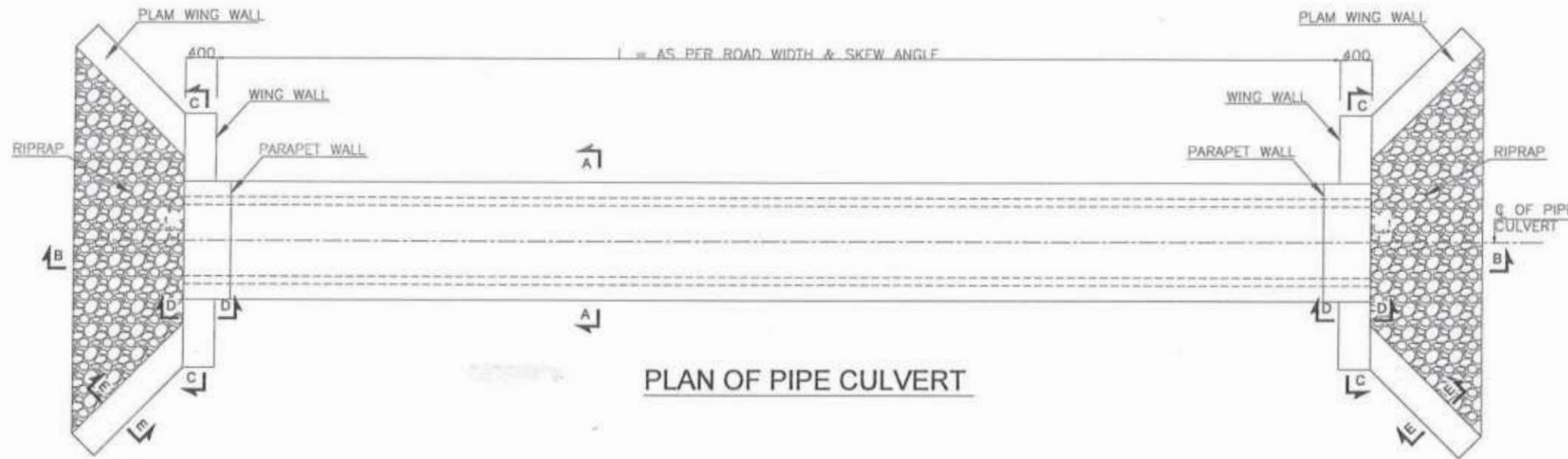
- 1 - PORTLAND CEMENT - AASHTO M85
- 2 - SAND - AASHTO M85

**PORTLAND CEMENT CONCRETE :**

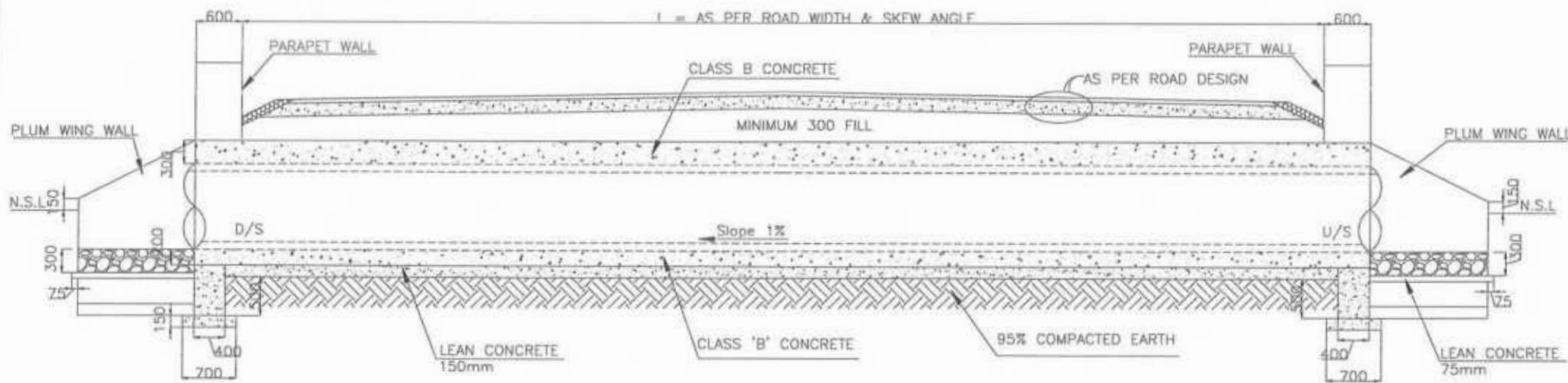
- 1 - LEAN CONCRETE 28 DAYS COMPRESSIVE STRENGTH  $f_c' = 100 \text{ Kg per sq. cm.}$
- 2 - PLAIN CEMENT CONCRETE 28 DAYS COMPRESSIVE STRENGTH  $f_c' = 210 \text{ Kg per sq. cm.}$
- 3 - REINFORCED CEMENT CONCRETE 28 DAYS COMPRESSIVE STRENGTH  $f_c' = 210 \text{ Kg per sq. cm.}$

**REINFORCEMENT :**

- 1 - REINFORCING STEEL SHALL BE GRADE 60 STEEL CONFORMING TO AASHTO M-31 (ASTM A-615) WITH MINIMUM YIELD STRENGTH OF 4220 Kg/Sq.Cm (80,000 Psi).



**PLAN OF PIPE CULVERT**



**SECTION BB**

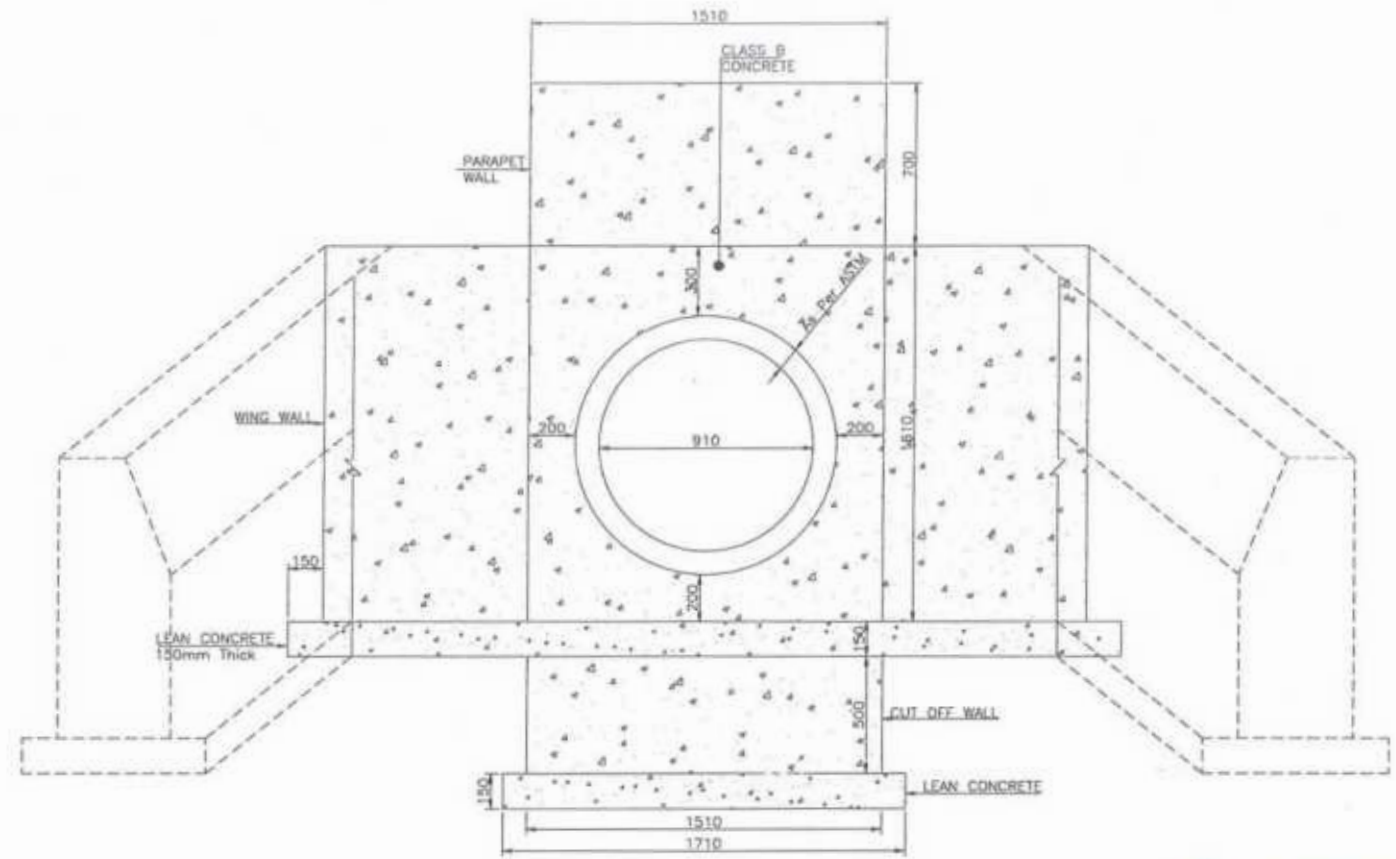
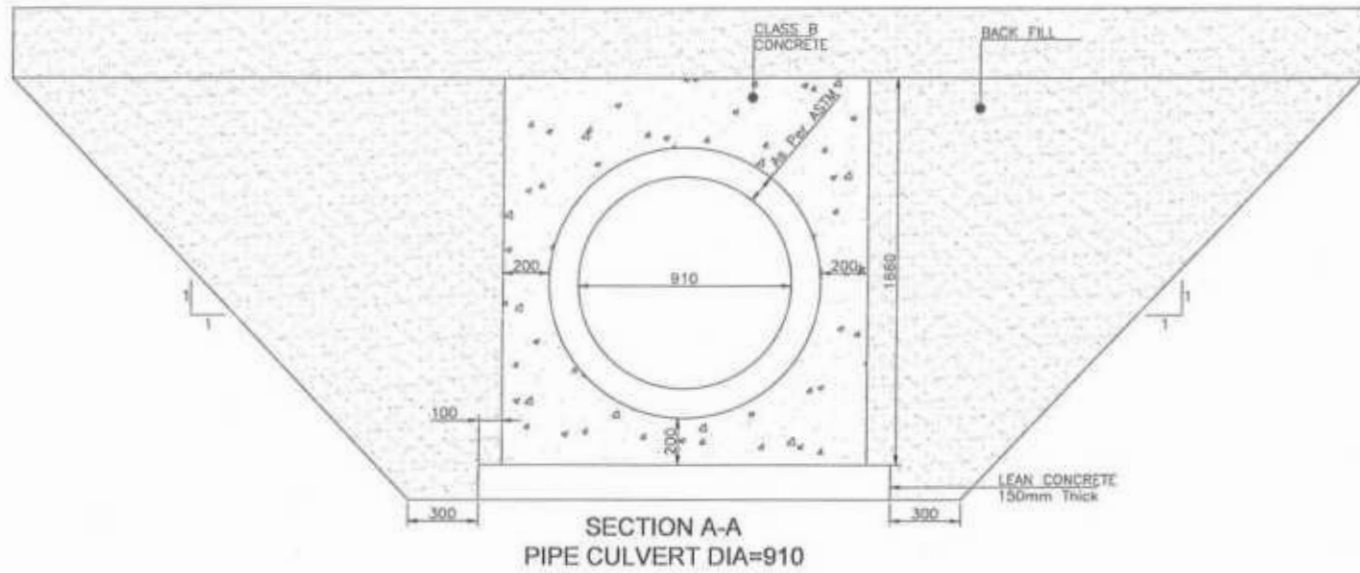
*[Signature]*  
 Project Director (PIU)  
 Provincial Road's Improvement Project  
 & W Department Peshawar.

*[Signature]*



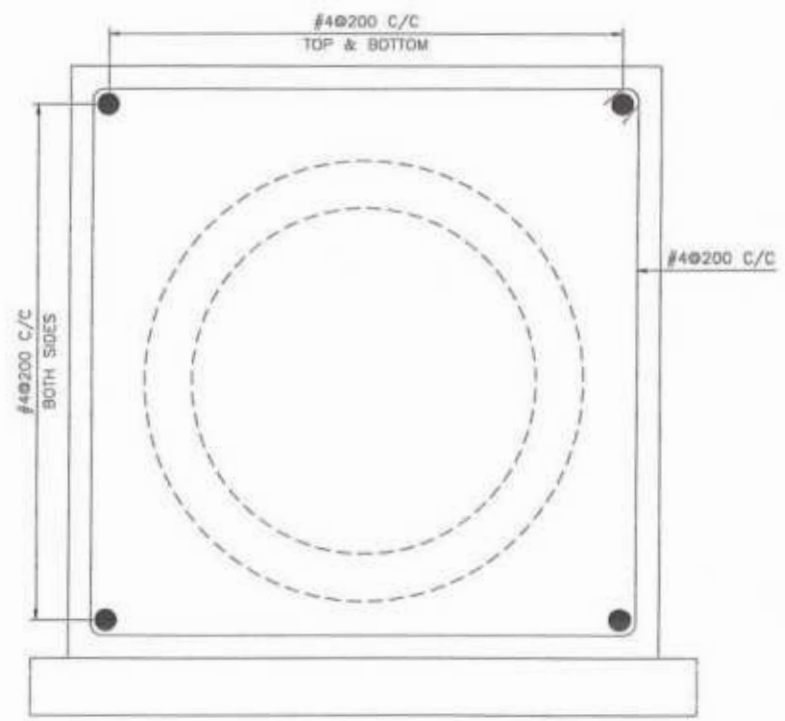
<p><b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b>          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58825-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT: KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP) PACKAGE-6 LOT-2	SCALE:	SHEET CONTENT: TYPICAL PIPE CULVERT PLAN & SECTIONS	
		0	SEP, 2024	TENDER DRAWINGS	DESIGNED		M.FAIZAN		N.T.S
		a			DRAWN		MUSHTAQ		DATE:
		b			CHECKED		M.ISLAM		SEP. 2024
		c			APPROVED		AQEEL YQUNIS		



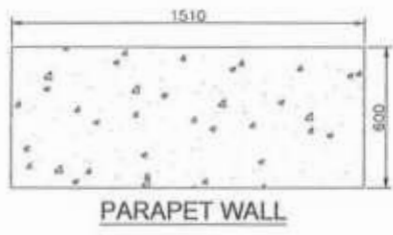


SECTION C-C PIPE CULVERT DIA=910 WITH WING WALL X-SECTION

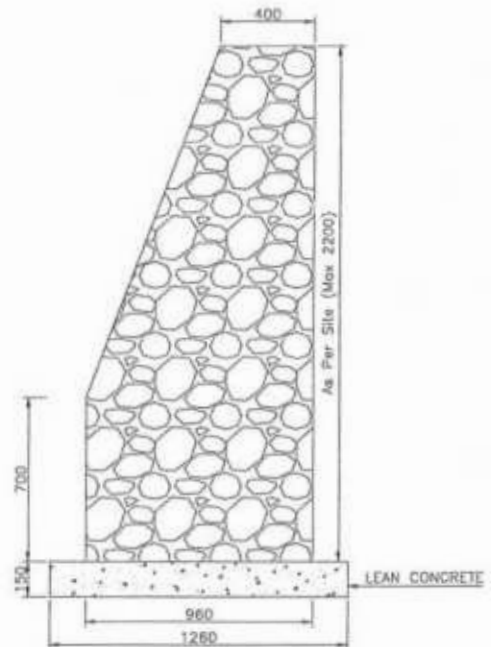
*[Signature]*  
 Project Director (PIU)  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



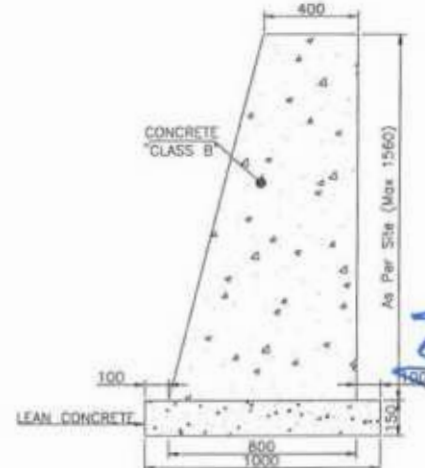
PIPE CULVERT ENCASEMENT REINFORCEMENT



PARAPET WALL



SECTION E-E PIPE CULVERT DIA = 910mm PLUM WALL X-SECTION

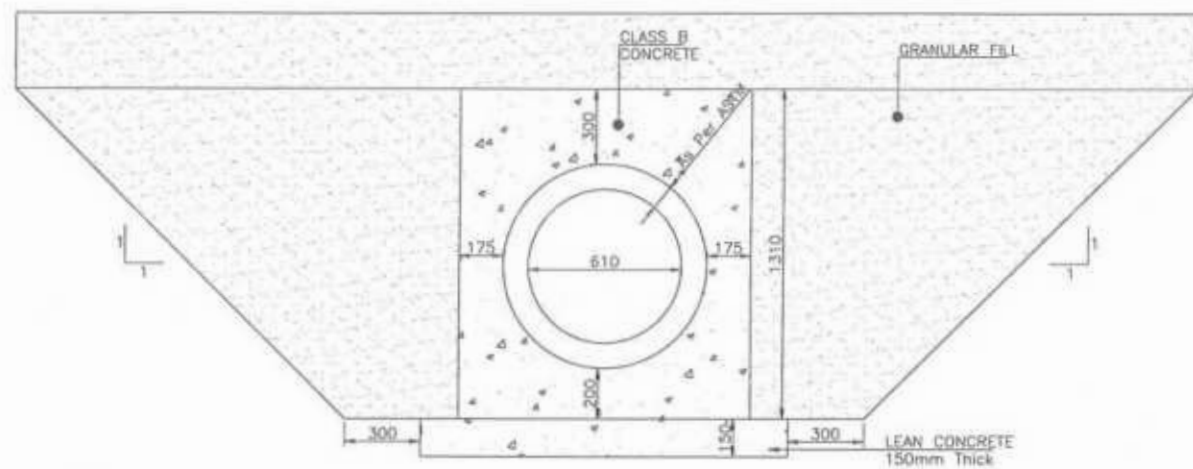


SECTION D-D PIPE CULVERT DIA = 910mm WING WALL X-SECTION

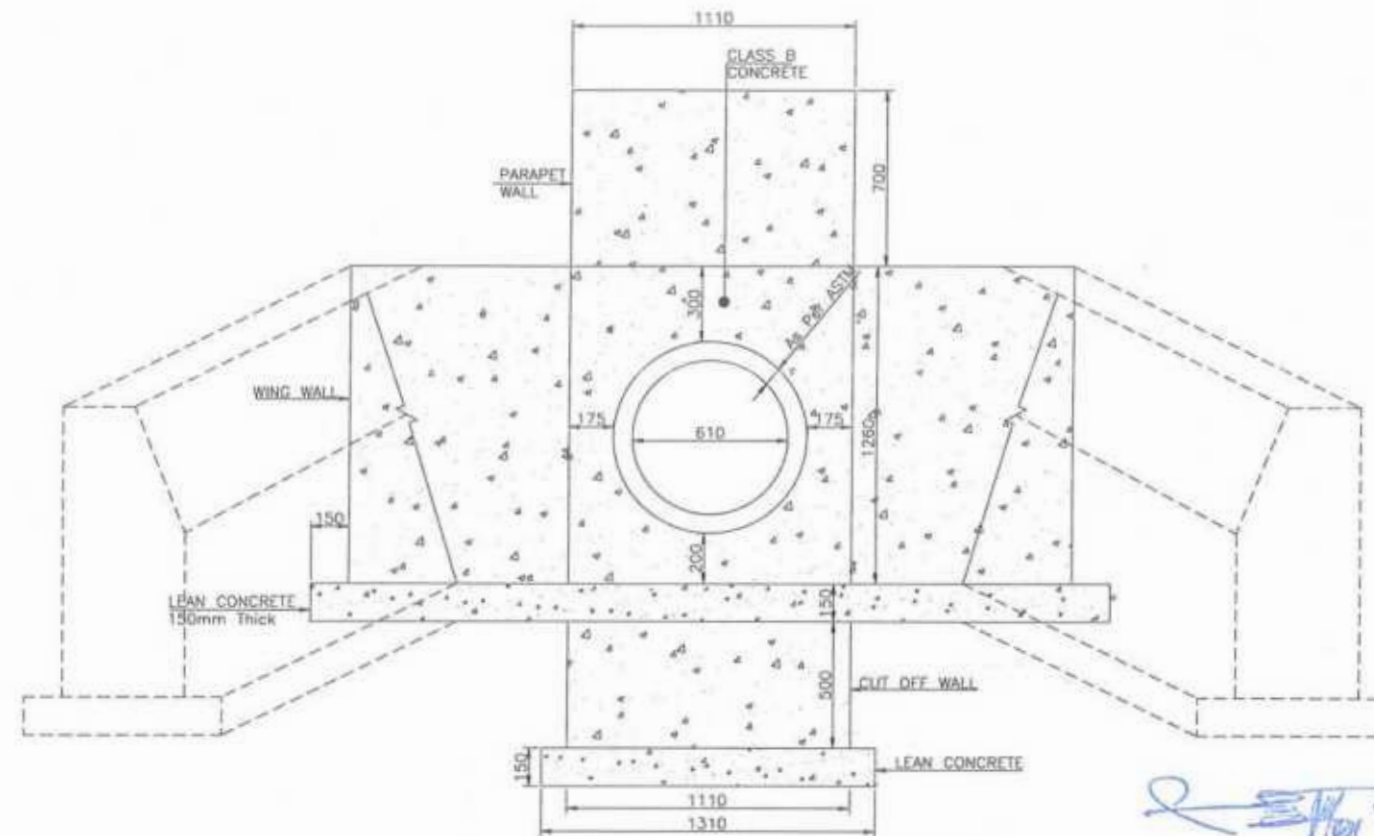
*[Signature]*  
 Minconsult International Ltd.  
 Creative Engineering Consultants

CLIENT: <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58635-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT: <b>KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)</b>	PACKAGE-6  LOT-2	SCALE:	SHEET CONTENT:
		0	SEP, 2024	TENDER DRAWINGS	DESIGNED: M.FAIZAN DRAWN: MUSHTAQ CHECKED: M.ISLAM			N.T.S	Ø910 mm TYPICAL PIPE CULVERT SECTION DETAILS
								DATE:	
								SEP,	



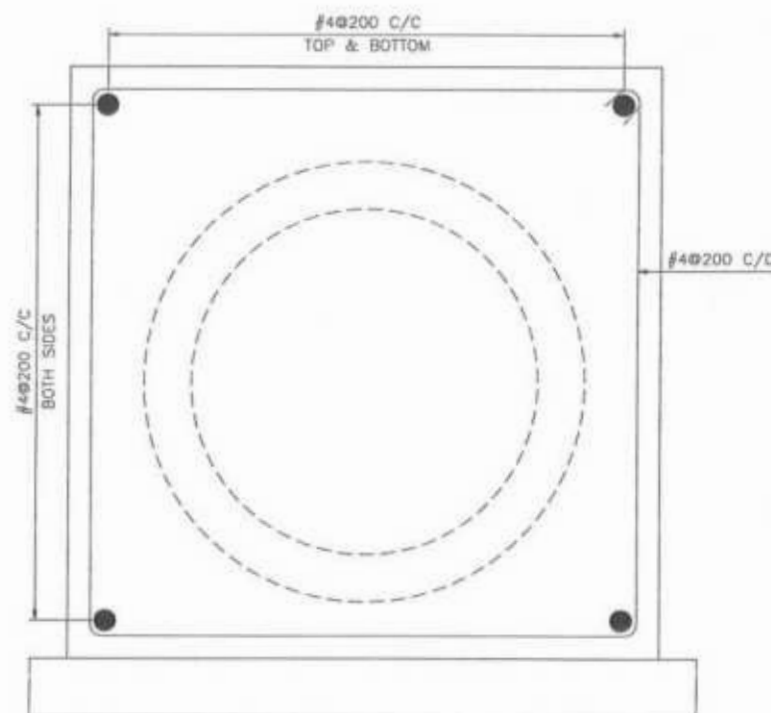


SECTION A-A  
PIPE CULVERT DIA=610

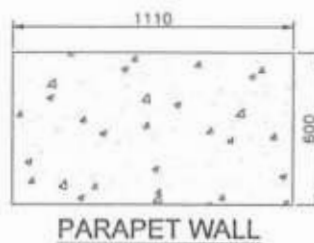


SECTION C-C PIPE CULVERT DIA=610  
WITH WING WALL X-SECTION

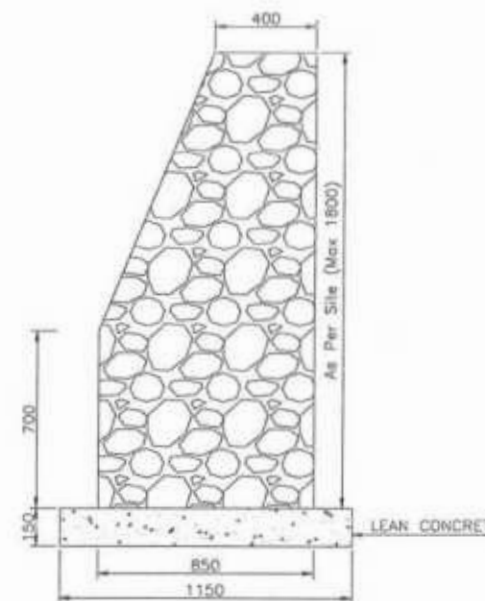
*[Signature]*  
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.



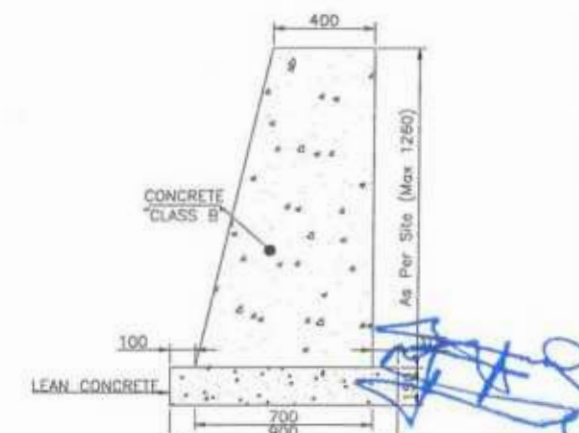
PIPE CULVERT  
ENCASEMENT REINFORCEMENT



PARAPET WALL



SECTION E-E  
PIPE CULVERT DIA = 610mm  
PLUM WALL X-SECTION

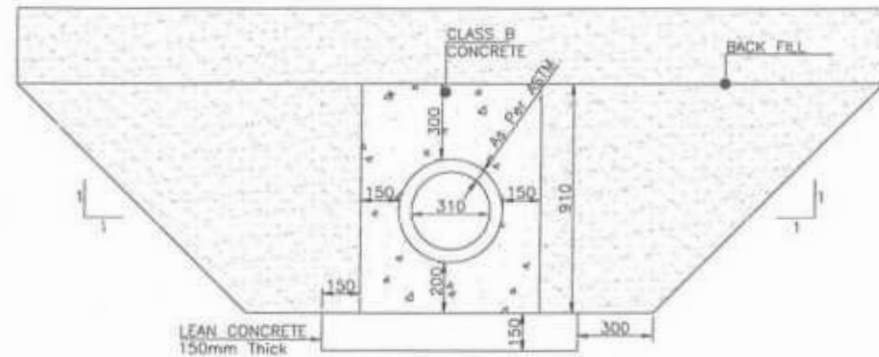


SECTION D-D  
PIPE CULVERT DIA = 610mm  
WING WALL X-SECTION

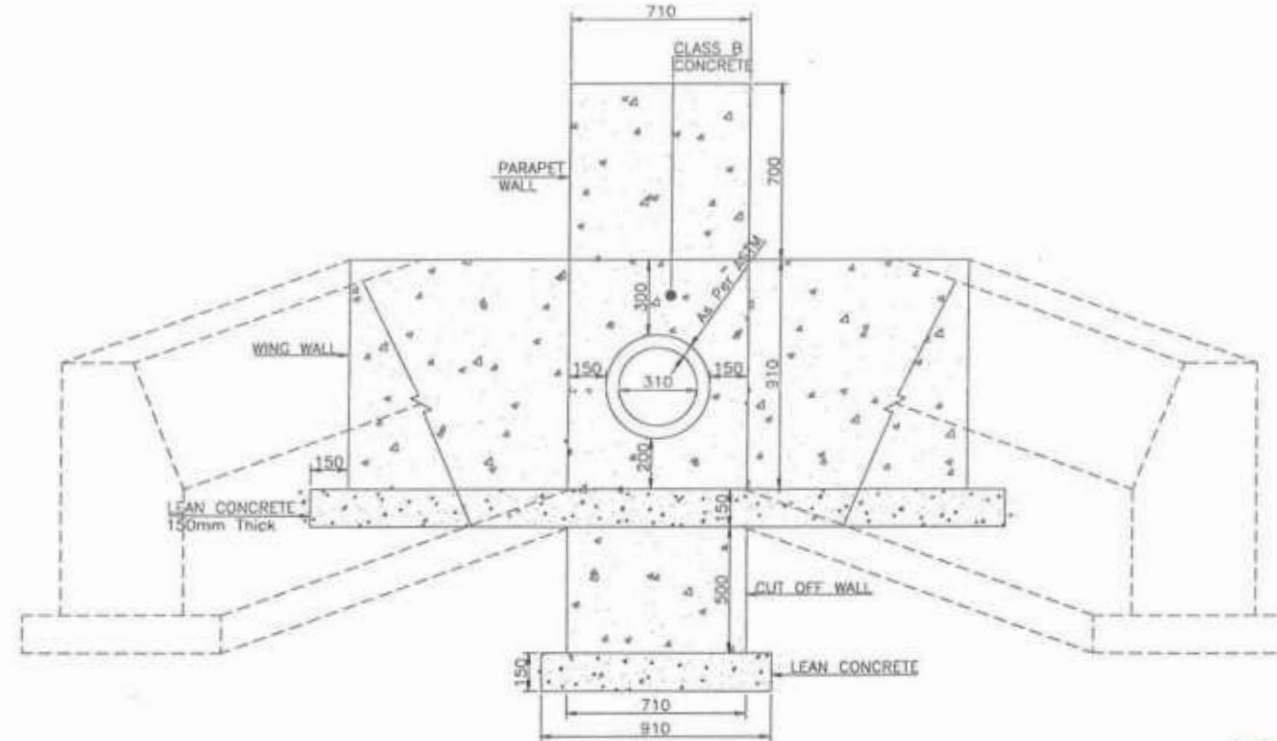


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-F) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	SEP, 2024	TENDER DRAWINGS	DESIGNED: M.FAIZAN	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6  LOT-2	SCALE: N.T.S
					DRAWN: MUSHTAQ			DATE: SEP, 2024
					CHECKED: M.ISLAM			
					APPROVED: AQEEL YOUNIS			

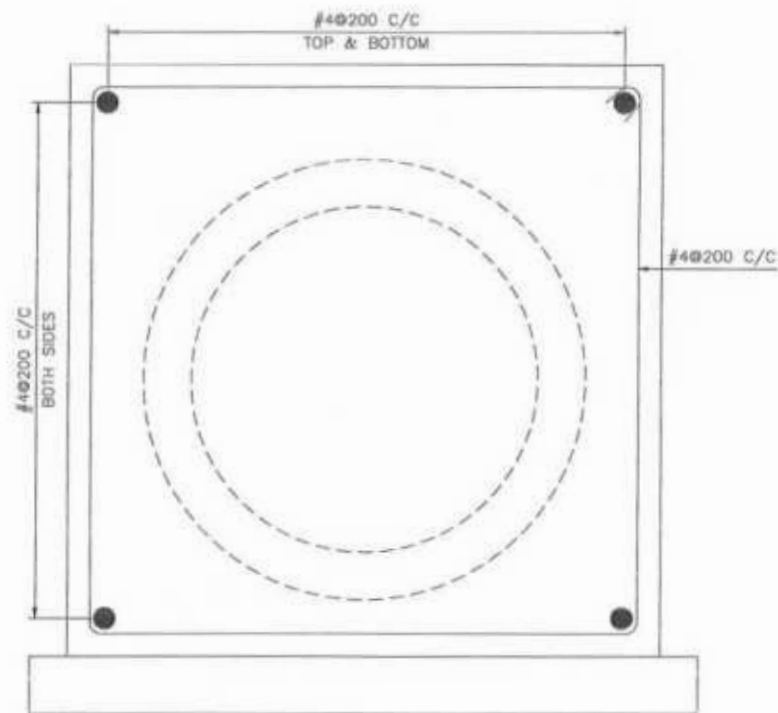




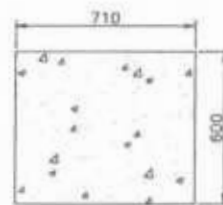
SECTION A-A  
PIPE CULVERT DIA=310



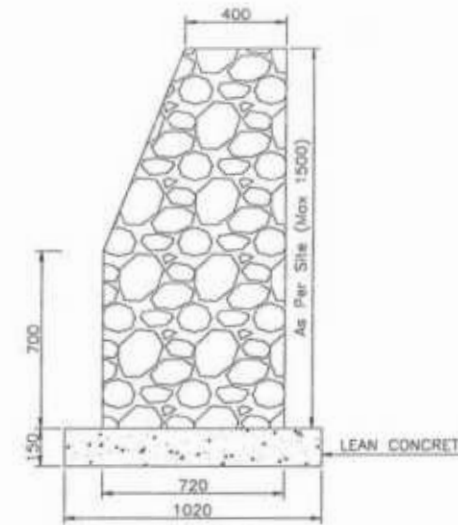
SECTION C-C PIPE CULVERT DIA=310  
WITH WING WALL X-SECTION



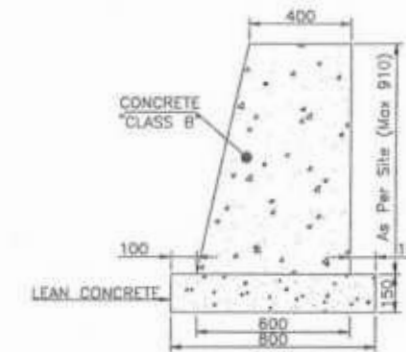
PIPE CULVERT  
ENCASUREMENT REINFORCEMENT



PARAPET WALL



SECTION E-E  
PIPE CULVERT DIA = 310mm  
PLUM WALL X-SECTION



SECTION D-D  
PIPE CULVERT DIA = 310mm  
WING WALL X-SECTION

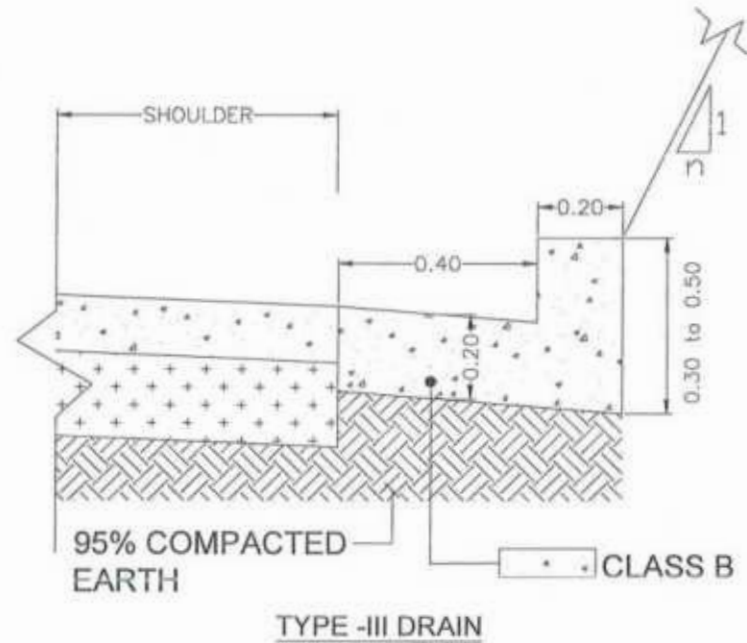
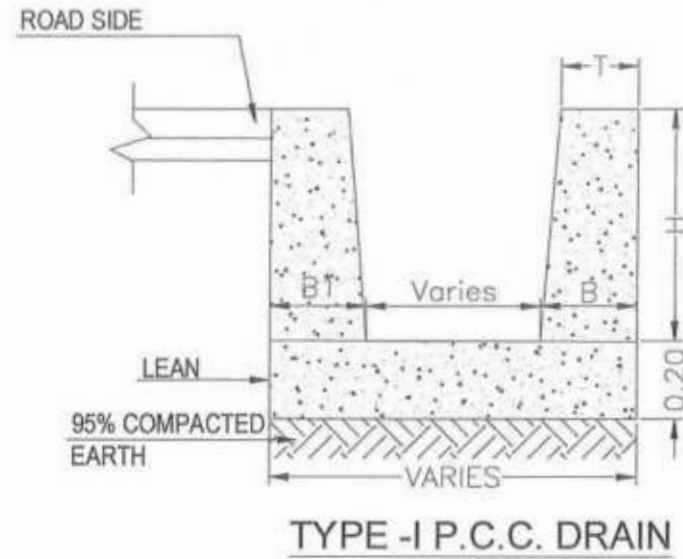
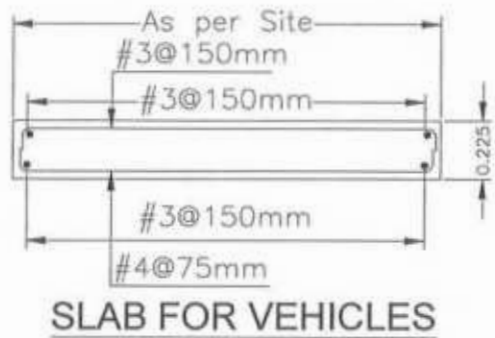
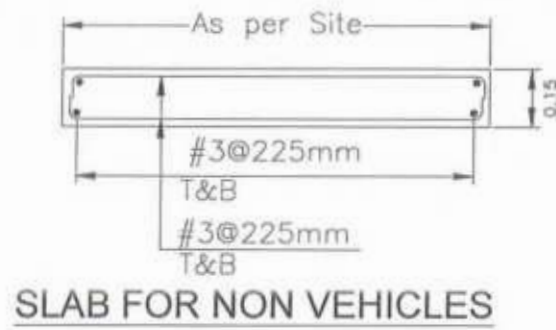
*[Signature]*  
Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.

*[Signature]*



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	PACKAGE-6  LOT-2	SCALE:	SHEET NO. 01/01	
		0	SEP. 2024	TENDER DRAWINGS	DESIGNED	M.FAIZAN		KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	N.T.S	Ø310 mm TYPICAL PIPE CULVERT SECTION DETAILS
		a			DRAWN	MUSHTAQ				
		b			CHECKED	M.ISLAM				
		c			APPROVED	AQEEL YOUNIS				
						DATE:	SEP. 2024			





**NOTES :**

- 1 - TYPE-I DRAIN IS APPLICABLE FOR BUILTUP AREA.
- 2 - TYPE-II DRAIN IS APPLICABLE FOR HILLY AREA CUTTING PORTIONS.  
TYPE OF DRAIN & LOCATION SHALL DECIDED BY THE ENGINEER INCHARGE.
- 3 - ACTUAL LOCATION, LENGTH, SLOPE AND ELEVATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION
- 4 - ALL DIMENSIONS ARE IN METERS

**PORTLAND CEMENT CONCRETE :**

- 1 - PLAIN CEMENT CONCRETE 28 DAYS COMPRESSIVE
- 2 - CLASS 'A' CONCRETE 28 DAYS COMPRESSIVE  
STRENGTH  $f_c' = 210$  Kg per  $cm^2$ .
- 3 - CLASS 'B' CONCRETE 28 DAYS COMPRESSIVE  
STRENGTH  $f_c' = 170$  Kg per  $cm^2$ .
- 4 - LEAN CONCRETE  
STRENGTH  $f_c' = 100$  Kg per  $cm^2$ .
- 5 - REINFORCING STEEL SHALL BE GRADE 60 STEEL CONFORMING TO AASHTO M-31 (ASTM A-615) WITH MINIMUM YIELD STRENGTH OF 4220 Kg/Sq.Cm (60,000 Psi).

TYPE -I PCC DRAIN			
H (m)	B (m)	B1 (m)	T (m)
0.30	0.200	0.260	0.150
0.45	0.250	0.430	0.175
0.60	0.300	0.510	0.200
0.75	0.350	0.560	0.200
1.00	0.400	0.730	0.200

*[Signature]*  
Project Director (PIU)  
Rural Roads Improvement Project  
C&W Department Peshawar.

*[Signature]*

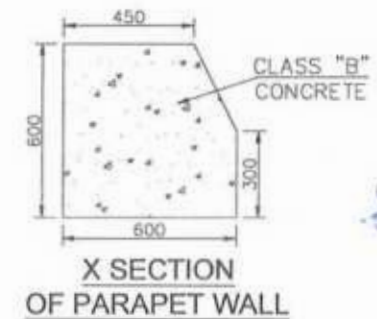
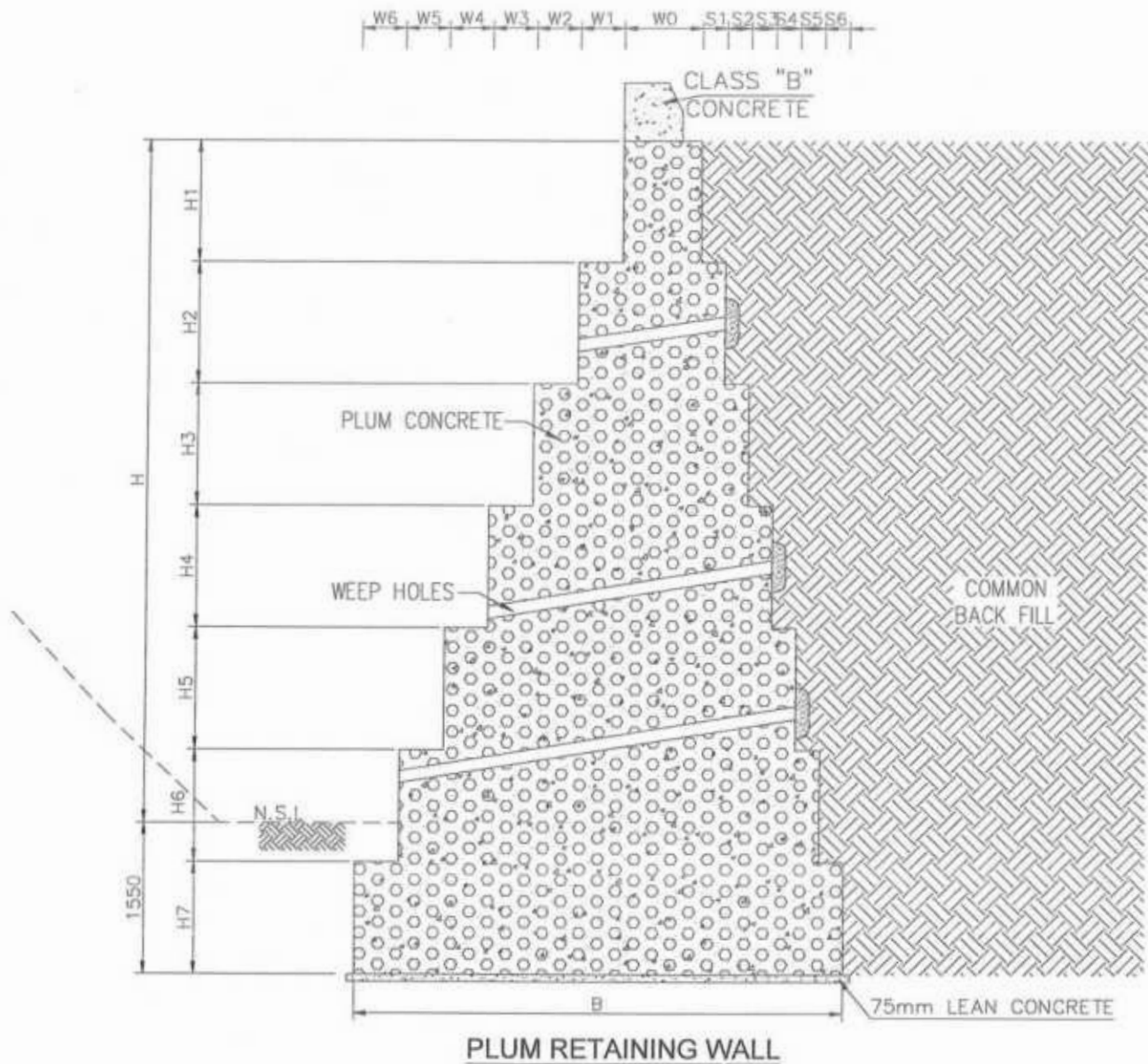


 <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES	PROJECT: <b>KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)</b>	SCALE: <b>PACKAGE-6</b>  <b>LOT-2</b>	SHEET NO.	<b>TYPICAL DETAILS OF ROAD SIDE DRAINS</b>  DATE: SEP. 2024 DWG NO:CEC/KPRRDP/STR/STR-04
		a	SEP. 2024	TENDER DRAWINGS	DESIGNED			M.FAIZAN	
		b			DRAWN			MUSHTAQ	
		c			CHECKED			M.ISLAM	
					APPROVED	AQEEL YOUNIS			

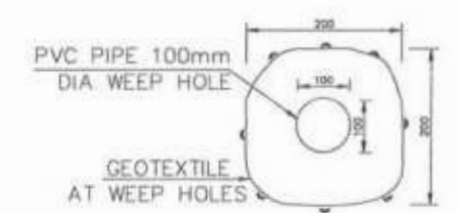


**NOTES**

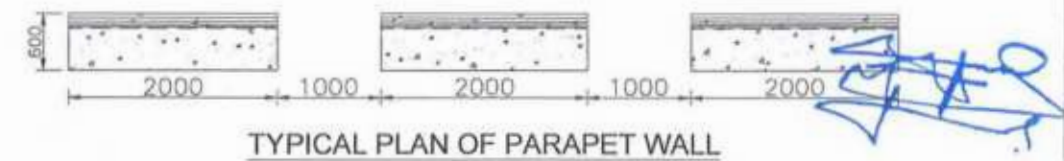
1. WEEP HOLES PVC PIPE 100mm DIA SHALL BE STAGGERED AT AN INTERVAL OF 1500mm VERTICAL AND HORIZONTAL AND AS ADDITIONALLY DIRECTED BY THE ENGINEER.
2. THE SLOPE OF WEEP HOLES SHALL BE 1 IN 8 FROM BACK OF THE WALL TO THE OUTER FACE OR AS DIRECTED BY THE ENGINEER.
3. PLUM CONCRETE IN 3:2 (3 PARTS CONCRETE CLASS 'B' & 2 PART ROCK FILL MATERIAL) HAVING STONE SIZE RANGING BETWEEN 200-300) BE UTILIZED.
4. PCC PARAPET SHALL BE PROVIDED AT TOP OF RETAINING WALL AND AT OTHER HAZARDOUS LOCATIONS, GUARD RAIL SHALL BE PROVIDED OVER 4m HIGH FILL OR AS DIRECTED BY THE ENGINEER.
5. SAFE BEARING CAPACITY MENTIONED IN THE TABLE SHOULD BE ACHIEVED PRIOR TO CONSTRUCTION AT SITE IF LESS IT SHOULD BE COMMUNICATED TO THE ENGINEER
6. AFTER 10m LENGTH CONSTRUCTION JOINT SHOULD BE PROVIDE.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
8. MINIMUM 28 DAYS CYLINDER COMPRESSIVE STRENGTH OF CONCRETE IN FOOTING SHOULD BE 210 Kg/cm<sup>2</sup> (3000 Psi)
9. NSL SHOULD BE AT LEAST 2m ABOVE THE BOTTOM OF FOOTING ON THE OUTER SIDE OF PLUM RETAINING WALL.
10. ALL SUB-STRUCTURE FOOTING SHALL BE SUBJECTED TO APPROVAL BY THE ENGINEER.  
ALL ELEVATION SHOWN ARE ESTIMATED AND SUBJECT TO CHANGE TO SUIT FILL CONDITION.
11. COMPACTION OF FILL MATERIAL (AS PER SPECIFICATION BY JETTING OR PONDING WITH WATER IS NOT PERMITTED. EACH LAYER OF FILL, MAXIMUM 200mm IN THICKNESS, SHALL BE MOISTENED AS REQUIRED, (OPTIMUM MOISTER CONTENT FROM STANDARD PROCTOR TEST) AND THOROUGHLY TEMPERED OR OTHERWISE COMPACTED TO MINIMUM OF 95% COMPACTION (STANDARD PROCTOR TEST).



**X SECTION OF PARAPET WALL**



**WEEP HOLE DETAIL (TYPICAL)**



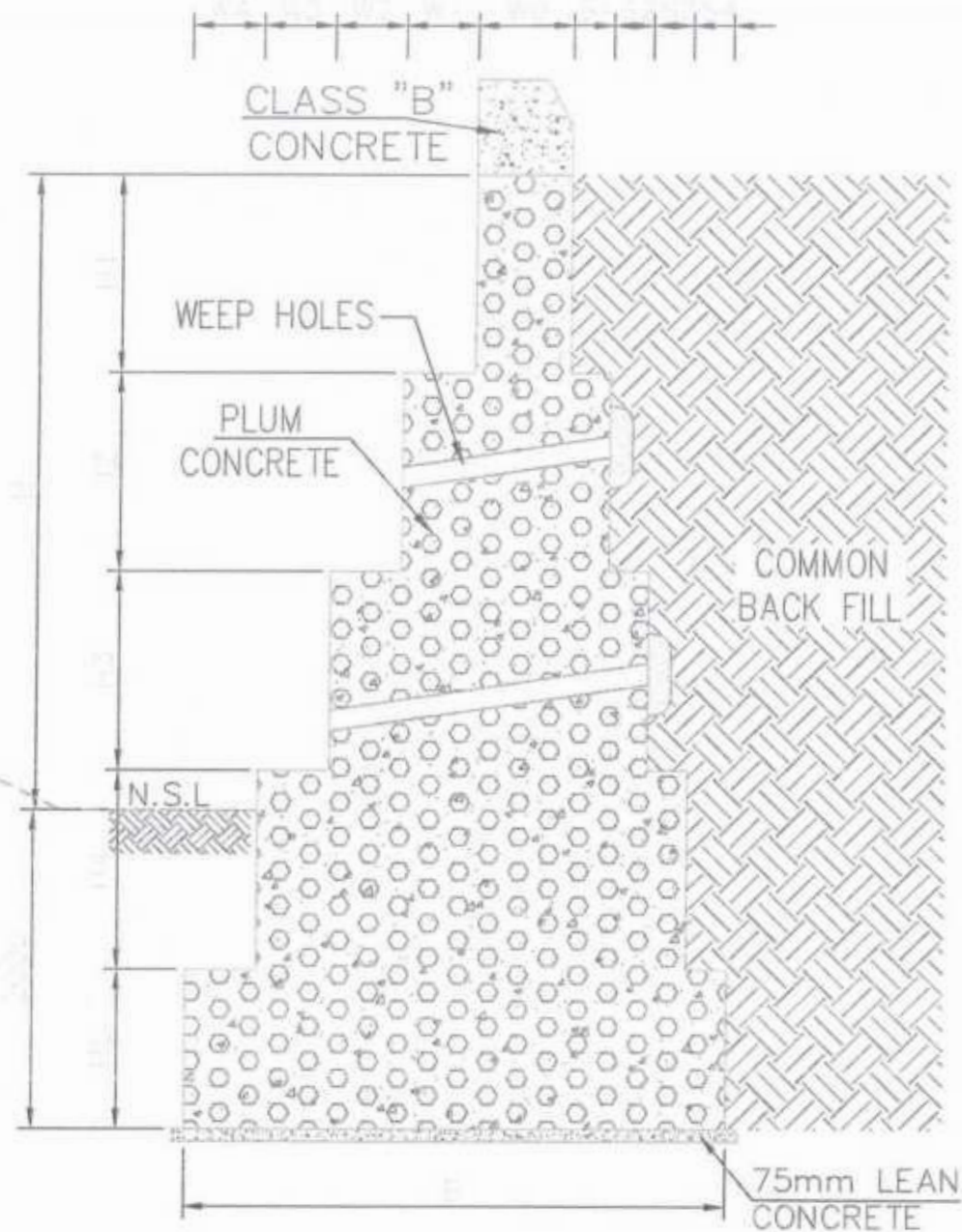
**TYPICAL PLAN OF PARAPET WALL**

*[Signature]*  
Project Director (PIU)  
Rural Roads Improvement Project  
Roads Department Peshawar.

RETAINING WALL DIMENSIONS																	1 Tsf=107.2 kPa					
H	H1	H2	H3	H4	H5	H6	H7	W0	W1	S1	W2	S2	W3	S3	W4	S4	W5	S5	W6	S6	B	BEARING PRESSURE (Kpo)
5000	1250	1250	1250	1250	1550			800	450	250	450	250	450	250	450	250					3600	216.25
6000	1250	1250	1250	1250	1250	1300		800	450	250	450	250	450	250	450	250	450	250			4300	222
7000	1250	1250	1250	1250	1250	1150	1150	800	450	250	450	250	450	250	450	250	450	250	450	250	5000	236.84

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58035-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT: KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	PACKAGE-6  LOT-2	SCALE	SHEET CONTENT	
		0	SEP. 2024	TENDER DRAWINGS	DESIGNED			M.FAIZAN	N.T.5	DETAIL OF PLUM CONCRETE RETAINING WALL.  
		1			DRAWN			MUSHTAQ	DATE:	
		2			CHECKED			M.ISLAM	SEP. 2024.	
		3			APPROVED			AQEEL YOUNIS	DWG NO:CEC/KPRRDP/STR&RT-054	



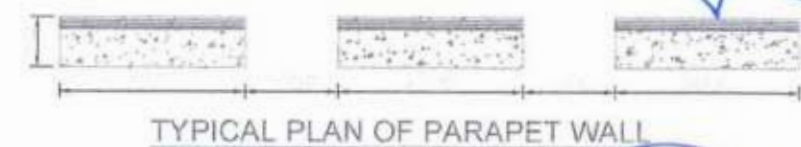
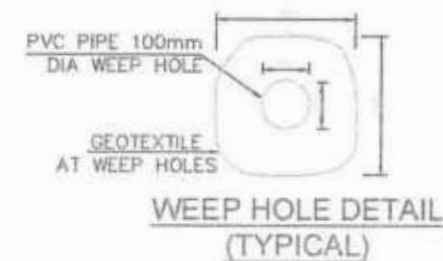
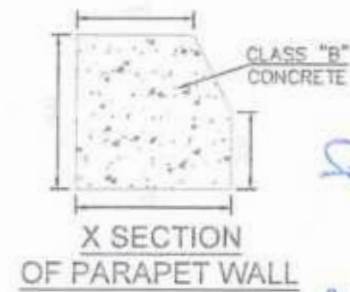


**PLUM RETAINING WALL**

RETAINING WALL DIMENSIONS													1 Tsf=107.2 kPa			
H	H1	H2	H3	H4	H5	W0	B	W1	S1	W2	S2	W3	S3	W4	S4	BEARING PRESSURE (Kpa)
1000	1500	1500				600	1300	450								143
2000	1250	1250	1500			600	2000	450	250	450	250					145
3000	1250	1250	1250	1250		600	2700	450	250	450	250	450	250			150
4000	1250	1250	1250	1250	1000	600	3400	450	250	450	250	450	250	450	250	158

**NOTES**

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2. THE SLOPE OF WEEP HOLES SHALL BE 1 IN 8 FROM BACK OF THE WALL TO THE OUTER FACE OR AS DIRECTED BY THE ENGINEER.
3. PLUM CONCRETE IN 3:2 (3 PARTS CONCRETE CLASS 'B' & 2 PART ROCK FILL MATERIAL) HAVING STONE SIZE RANGING BETWEEN 200~300) BE UTILIZED.
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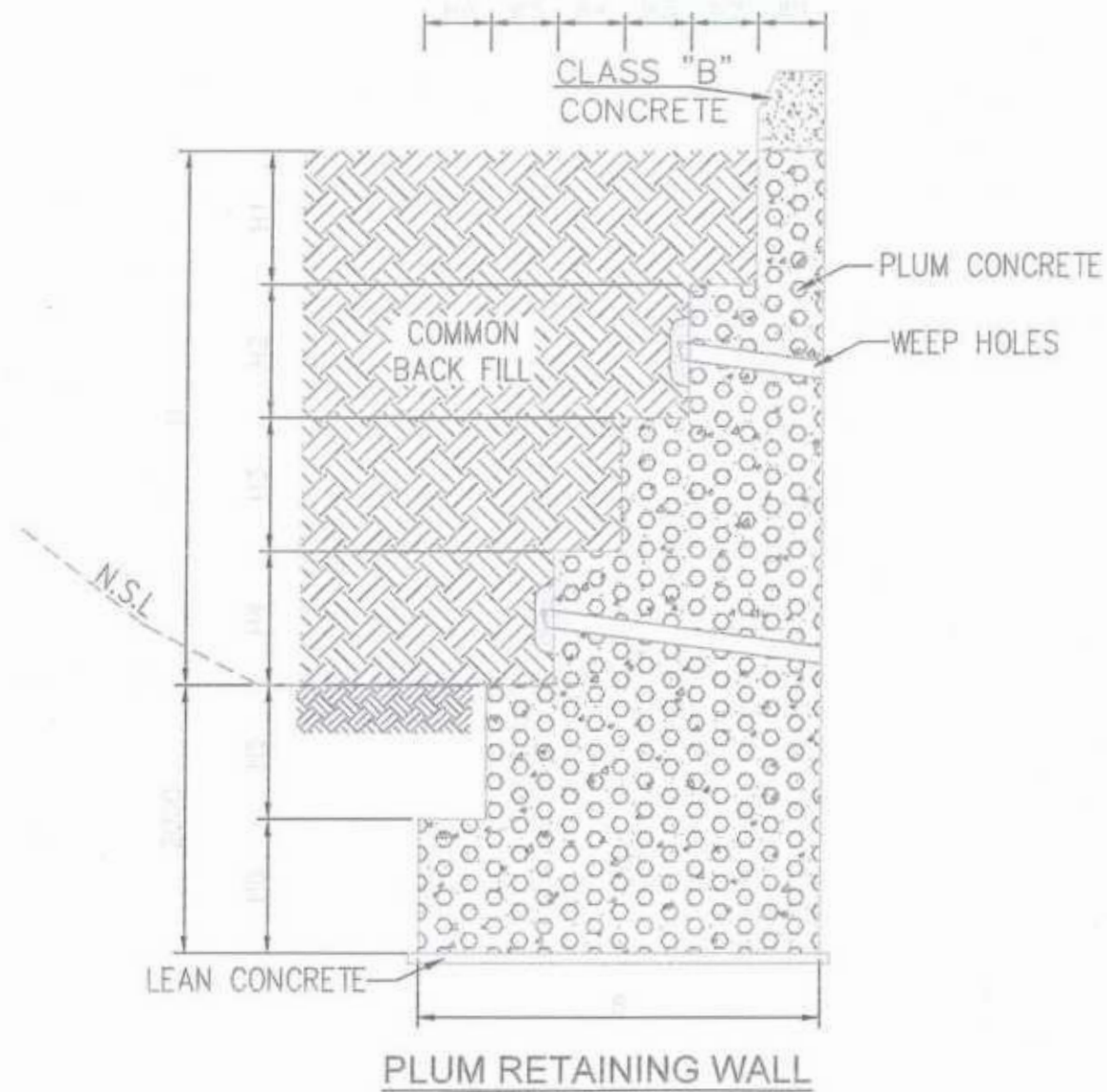


*Project Director (PIU)  
Provincial Roads Improvement Project  
C&W Department Peshawar.*



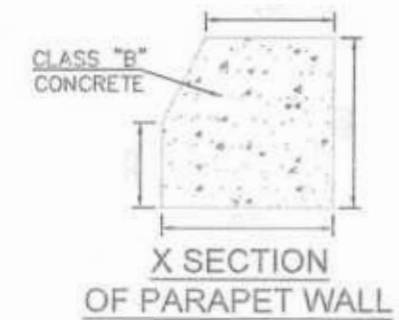
<b>CLIENT:</b> <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>DESIGN CONSULTANT:</b> (MIN - JV - CEC)  MINICONSULT INTERNATIONAL LTD. J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:	<b>PROJECT:</b> KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)	<b>PACKAGE-6</b>  <b>LOT-2</b>	SCALE:	<b>DETAIL OF PLUM CONCRETE RETAINING WALL</b>	
		6	SEP, 2024	TENDER DRAWINGS	DESIGNED			M.FAIZAN		N.T.S
					DRAWN			MUSHTAQ		DATE:
					CHECKED			M.ISLAM		SEP, 2024
					APPROVED			AQEEL YOUNIS		



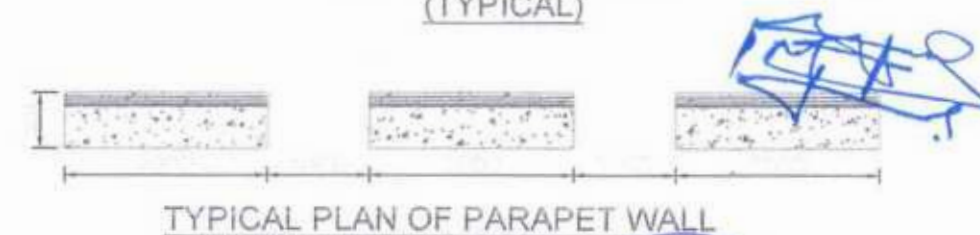
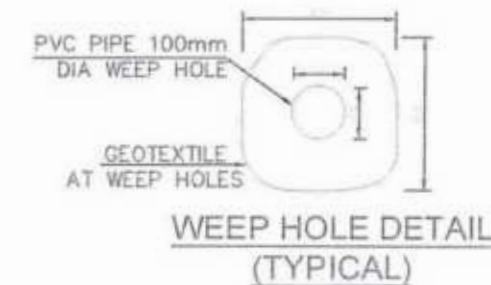


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*[Signature]*  
**Project Director (PIU)**  
 Provincial Roads Improvement Project  
 C&W Department Peshawar.



RETAINING WALL DIMENSIONS													1 Tsf=107.2 kPa	
H	H1	H2	H3	H4	H5	H6	W1	W2	W3	W4	W5	W6	B	BEARING PRESSURE (Kpa)
2000	1000	1500	1500				750	750	750				2250	188.3
3000	1000	1500	1500				750	750	750	750			3000	223
4000	1500	1500	1500	1500			750	1000	1000	1000			3750	257
5000	1000	1500	1500	1500	1500		750	1200	1200	1200	1200		5550	260
6000	1000	1000	1500	1500	1500	1500	750	1070	1070	1070	1070	1070	6100	299

<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCOSULT SDN BHD          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES	PROJECT:	SHEET CONTENT:	
		0	SEP, 2024	TENDER DRAWNGS	DESIGNED	M FAIZAN	KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP) PACKAGE-6 LOT-2	N.T.S
		1			DRAWN	MUSHTAQ		DATE:
		2			CHECKED	M.ISLAM		SEP, 2024
		3			APPROVED	AGEEL YOUNIS		DWG NO:CEC/KPRRDP/STR/8RT-056

