

GOVERNMENT OF KHYBER PAKHTUNKHWA		
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)		
REHABILITATION, IMPROMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)		
PACKAGE 8 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 CULVERTS AND CAUSEWAYS	-
4	BILL NO: 4 RETAINING WALLS AND BREAST WALL	-
5	BILL NO: 4a CONSTRUCTION OF RCC BRIDGES	-
6	BILL NO: 5 DRAINAGE AND ANTI EROSION WORK	-
7	BILL NO: 6 ANCILLARY WORKS	-
8	BILL NO: 6d CLEARANCE OF SNOWFALL	20,970,000.00
<b>TOTAL AMOUNT OF CIVIL WORK:</b>		
<b>TOTAL AMOUNT OF CIVIL WORK IN MILLIONS:</b>		



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




GOVERNMENT OF KHYBER PAKHTUNKHWA						
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)						
REHABILITATION, IMPROVEMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)						
PACKAGE 8 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	21,780.00			-
104	Compaction of Natural Ground.	SM	21,780.00			-
108a	Formation of Embankment from Road way excavation in common material	CM	27,919.84			-
108b (iii)	Formation of Embankment from Roadway excavation in Soft Rock Material	CM	18,613.23			-
106a / 106c	Excavate Unsuitable / Surplus Common Material	CM	56,432.35			-
106bi / di	Excavate Unsuitable / Surplus Hard Rock Material	CM	30,503.97			-
106bi / dii	Excavate Unsuitable / Surplus Medium Rock Material	CM	27,453.57			-
106biii / diii	Excavate Unsuitable / Surplus Soft Rock Material	CM	38,129.97			-
109a	Subgrade preparation in Earth Cut	SM	45,980.00			-
<b>Total:</b>						-



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




GOVERNMENT OF KHYBER PAKHTUNKHWA						
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)						
REHABILITATION, IMPROVEMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)						
PACKAGE 8 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	20,028.00			-
401a2 ii	Concrete Class A2 (ON GROUND)	CM	22,546.00			-
310.2.3	Providing and laying Polythene sheet heavy weight under rigid pavement including overlapping, wastage and cortage etc.complete as per drawing.	SM	109,500.00			-
SIW-15 406a	Premoulded Joint Filler 20 mm Thick with Bitumastic joint seal	M	22,440.00			-
<b>Total:</b>						-



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




GOVERNMENT OF KHYBER PAKHTUNKHWA					
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)					
REHABILITATION, IMPROVEMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)					
PACKAGE 8 LOT-2					
BILLS OF QUANTITIES					
NHA Specification Item No.	DESCRIPTION	Unit	BOQ		
			QTY	Unit Rate (Rs) In Figures	Unit Rate (Rs) In Words

**BILL # 3 (CULVERTS AND CAUSEWAYS)**

107a	Structural Excavation in Common Material.	CM	1,353.00			-
401f	Lean Concrete	CM	341.00			-
401 a3ii	Concrete Class A3 (On ground)	CM	2,255.00			-
404b	Reinforcement as per AASHTO M 31 Grade 60	Ton	230.12			-
507 b	Rock Fill in Gabions	CM	11,250.00			-
SIW-17 507 a	Steel Wire Mesh for Gabion	SM	22,500.00			-
501d	R.C.C. Pipe Culvert AASHTO M 170 Class II Dia 610 mm	M	150.00			-
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	265.00			-
SIW-13	Providing and filling sand behind abutment of culverts and causeways	CM	3,657.00			-
<b>Total:</b>						-

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



GOVERNMENT OF KHYBER PAKHTUNKHWA						
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)						
REHABILITATION, IMPROVEMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CH122.00KM)(RRD-N-CHT-2)						
PACKAGE 8 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 # 4 ( RETAINING WALLS AND TOE WALLS )**

107a	Structural Excavation in Common Material.	CM	27,466.00			-
107e	Common Backfill	CM	5,286.00			-
401b	Concrete Class B	CM	6,095.00			-
401a1 (ii)	Concrete Class A1 (ON GROUND)	CM	266.00			-
401f	Lean Concrete	CM	5,424.00			-
SIW-8 401h	Plum Concrete (Class 'B' with 40% Boulders/ Rock) as per drawing & Engineer's Instructions	CM	70,425.00			-
<b>Total:</b>						-

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



GOVERNMENT OF KHYBER PAKHTUNKHWA					
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)					
REHABILITATION, IMPROMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)					
PACKAGE 8 LOT-2					
BILLS OF QUANTITIES					
NHA Specification Item No.	DESCRIPTION	Unit	BOQ		
			QTY	Unit Rate (Rs) in Figures	Unit Rate (Rs) in Words

**BILL # 4a (CONSTRUCTION OF RCC BRIDGES)**

407i	Pile Load Tests to 2 times the design load	Each	1.00			-
SIW 7 (Item 407)	Exploratory/Confirmatory Boring and Soil testing, including soil investigation report					-
SIW 7 a	Exploratory/Confirmatory Boring	M	60.00			-
SIW 7 b	Soil testing, / investigation report	L.Sum	2.00			-
407d	Cast-in-place, Reinforced Concrete Cylindrical Piles dia 1200 mm	M	475.00			-
107a	Structural Excavation in Common Material.	CM	664.13			-
401f	Lean Concrete	CM	67.31			-
401a3 (ii)	Concrete Class 'A 3' (ON GROUND)	CM	562.43			-
404b	Reinforcement as per AASHTO M 31 Grade 60	Ton	185.80			-
SIW-13	Providing and filling sand behind abutment of bridges	CM	1,387.20			-
407-7(b)	Supply and Fabrication of Permanent Lining	Kg	9,104.97			-
406 e	Elastomeric Bearing Pads & as per approved drawing	Cu.cm	158,400.00			-
401 d ii	Concrete Class 'D 2'	CM	166.14			-
SIW 4 405b	Launching of Girders in place including lifting, handling and temporary works	M	200.00			-
SIW-5	Galvanized Iron Drain Pipe, 75 mm Diameter	Each	40.00			-
401a3 (iii)	Concrete Class 'A 3' (ELEVATED) (Deck Slab, Diaphragm, Walkway and Barrier)	CM	126.93			-
SIW 12 406c	Supply and place in position expansion joint assemblies as specified & as per approved drawing	M	27.90			-
SIW 4 405a	Prestressing High Tensile Steel Including Sheathing, Anchorages, Assemblies, Grouting and Stressing Complete in All Respect	KG	6,798.53			-
SIW-6	PVC Pipe sched. 40 200 mm Dia. for Services.	M	280.00			-
<b>Total:</b>						-

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



GOVERNMENT OF KHYBER PAKHTUNKHWA							
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)							
REHABILITATION, IMPROVEMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)							
PACKAGE 8 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 # 5 ( DRAINAGE AND ANTI EROSION WORK )**

107a	Structural Excavation in Common Material.	CM	5,214.00			-
107e	Common Backfill	CM	4,208.00			-
401b	Concrete Class B	CM	5,280.00			-
401a1ii	Concrete Class A1 (ON GROUND)	CM	113.00			-
404 b	Reinforcement as per AASHTO M 31 Grade 60	Ton	17.74			-
507 b	Rock Fill in Gabions	CM	19,500.00			-
SIW-17 507 a	Steel Wire Mesh for Gabion	SM	39,000.00			-
401f	Lean Concrete	CM	2,018.00			-
<b>Total:</b>						-

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



GOVERNMENT OF KHYBER PAKHTUNKHWA						
KHYBER PAKHTUNKHWA RURAL ROADS DEVELOPMENT PROJECT (KP-RRDP)						
REHABILITATION, IMPROVEMENT AND CONSTRUCTION OF ROAD FROM OSAIC TO ORSOON DISTRICT CHI22.00KM)(RRD-N-CHT-2)						
PACKAGE 8 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	22.00			-
607 a	Traffic Road Signs Category 1 Size 75 CM	EACH	8.00			-
607 b	Traffic Road Signs Category 2 Size dia 75 CM	EACH	6.00			-
607c	Traffic Road Signs Category 3 (a)	EACH	4.00			-
607 d	Traffic Road Signs Category 3 (b)	EACH	4.00			-
608 h	Pavement Marking in reflective TP paint for line of 15 cm width.	M	57,200.00			-
609 a	Reflectorised Pavement Stud (Flush Surface Type Single)	EACH	4,400.00			-
604 a	Metal Guard Rail	M	2,700.00			-
604 b	Guard Rail End pieces	EACH	60.00			-
604 d	Steel Post for Guard Rail	EACH	1,421.05			-
<b>Total:</b>						-

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

SIW-6-1	Removal of Snowfall Till end of Defect Liability and cost will paid as per The Engineer Directive.	L/S	20,970,000.00			20,970,000.00
<b>Total:</b>						20,970,000.00

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





**PROJECT:**

**KHYBER PAKHTUNKHWA  
RURAL ROAD DEVELOPMENT PROJECT  
(KP-RRDP)**

**TENDER DRAWINGS**

**N-CHT-2**

**OSAIC TO ORSOON**

**AUGUST, 2024.**



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



**GOVERNMENT OF KHYBER  
PAKHTUNKHWA**

**COMMUNICATION & WORKS  
DEPARTMENT  
PROJECT IMPLEMENTATION UNIT (PIU)**



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



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

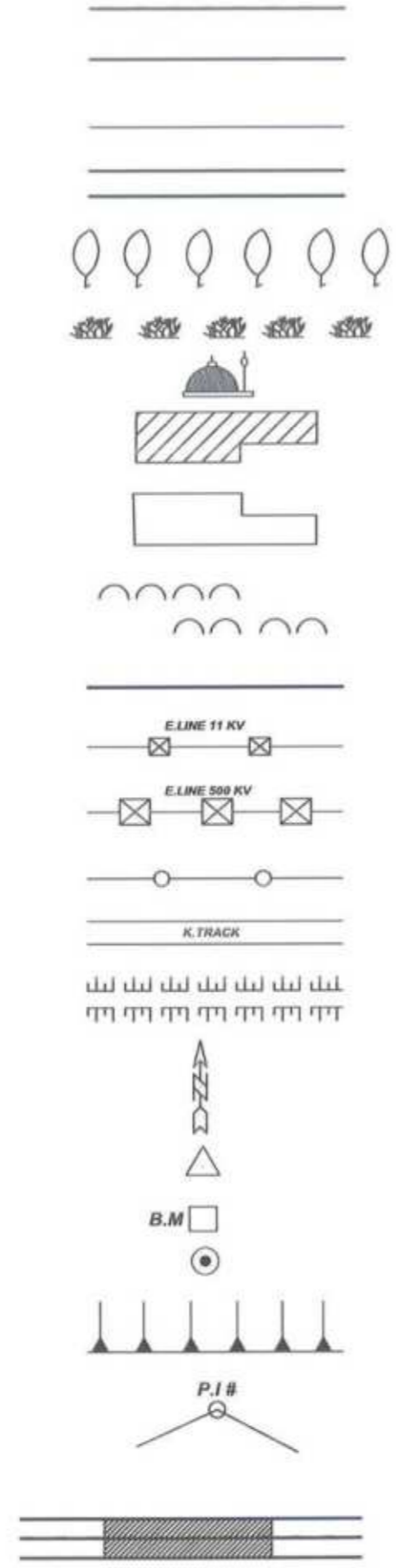
# GENERAL & TYPICAL DRAWINGS



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



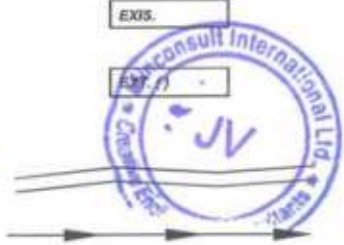
DESIGN CENTERLINE  
 PROPOSED RIGHT OF WAY  
 TOE OF PROPOSED EMBANKMENT  
 EXISTING ROAD EDGE  
 GARDEN / TREES  
 BUSHES  
 MOSQUE  
 BUILT-UP AREA (BUILDING/HOUSE)  
 HUT / MUD HOUSE (KACHA)  
 GRAVES / GRAVE YARD  
 LIMIT OF AGRICULTURAL FIELDS  
 H.T / L.T POWER TRANSMISSION LINE  
 500 KV TRANSMISSION 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 )



PARAPEL 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 )



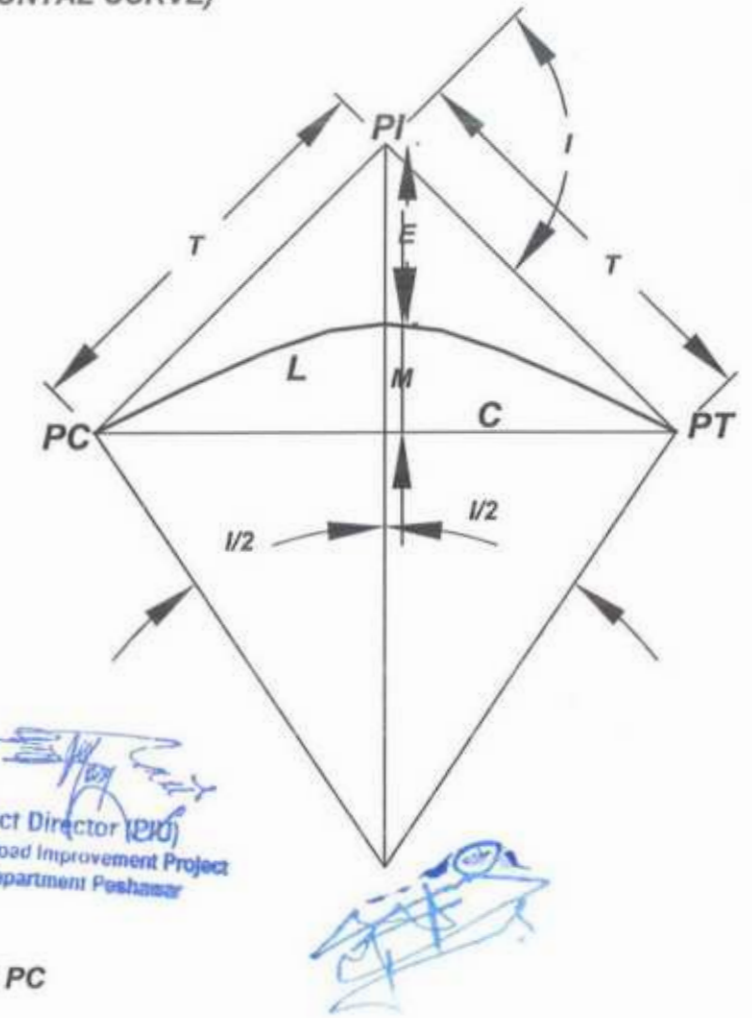
*(Signature)*  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 5635-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 ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2	N.T.S	SYMBOLS & ABBREVIATION
		a			DRAWN	IMRAN TARIQ		OSAIC TO ORSOON	DATE:	
		b			CHECKED	SHAHZAD DURRANI		ACCESS ROAD	AUG. 2024.	
		c			APPROVED	AGEEL YOUNIS				

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	SKREW ANGLE



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



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. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG. 2024	TENDER DRAWINGS	G. DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON	N.T.S	SYMBOLS & ABBREVIATION
		a			DRAWN IMRAN TARIQ				
		b			CHECKED SHAHZAD DURRANI				
		c			APPROVED AQEEL YOUNIS				
							ACCESS ROAD	AUG. 2024	DWO NO. CECH/RRDP-RRDM-CHT-2/ SA / 036

## GENERAL NOTES FOR ROAD CONSTRUCTION

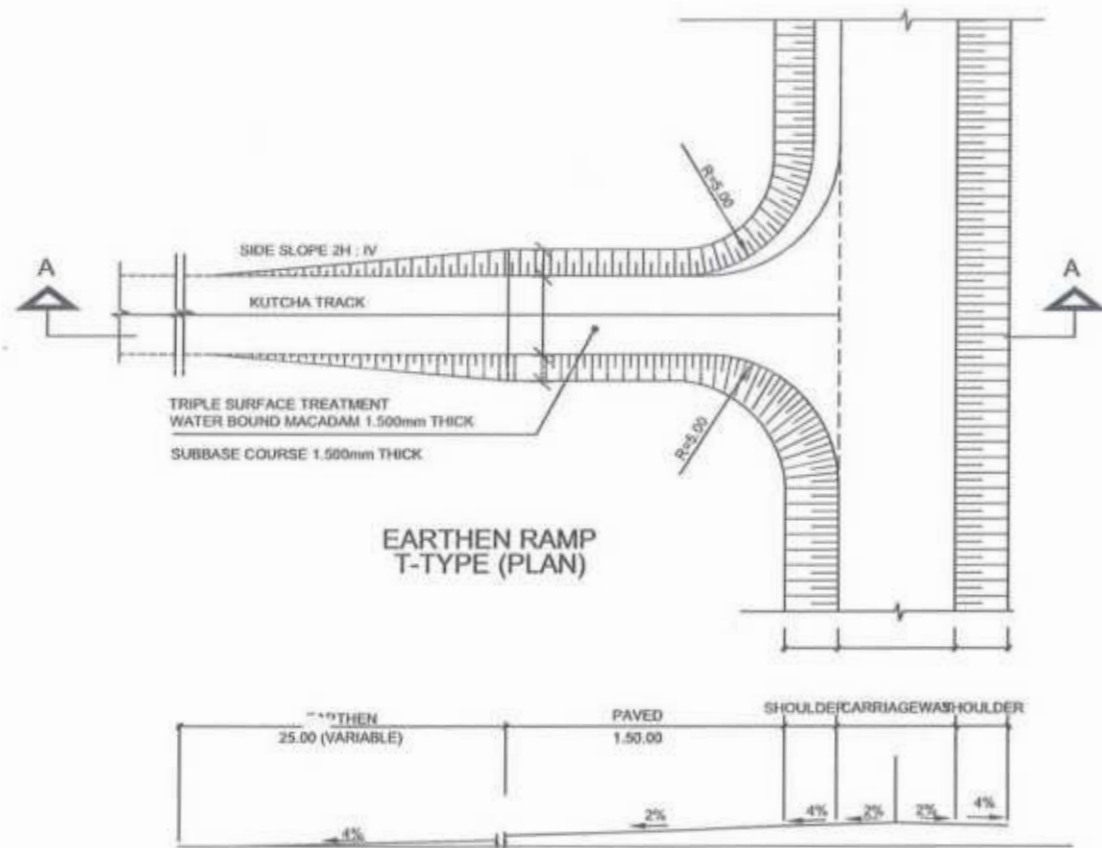
1. GRID COORDINATES & ELEVATIONS FOR THE PROJECT ARE BASED ON UNIVERSAL TRANSVERSE MERCATOR (UTM WGS84).
2. EACH DRAWING SHALL BE READ IN CONJUNCTION WITH OTHER DRAWINGS.
3. NOTES GIVEN ON DRAWINGS ADJACENT TO A SECTION OR DETAIL PERTAIN TO THAT PARTICULAR DETAIL ONLY.
4. THE CONTRACTOR SHALL ENDEAVOR 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.

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

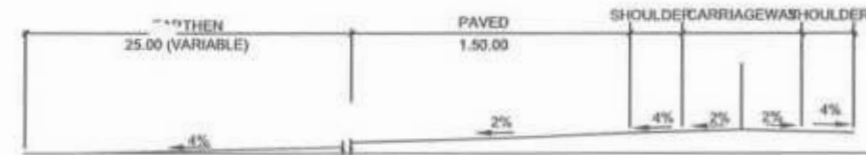


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
<b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>MINCONSULT SDN BHD</b> (COMPANY NO. 59835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG, 2024.	TENDER DRAWINGS	G.DESIGNED	TANZEEL	N-CHT-2 OSAIC TO ORSOON	N.T.S	<b>GENERAL NOTES FOR ROAD CONSTRUCTION</b>  <small>DWG NO: CEC/HWKP-RRDM-CHT-2/ GN-04</small>	
		a			DRAWN	IMRAN TARIQ		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)		ACCESS ROAD
		b			CHECKED	SHAHZAD DURRANI	AUG, 2024.			
		c			APPROVED	AQEEL YOUNIS				

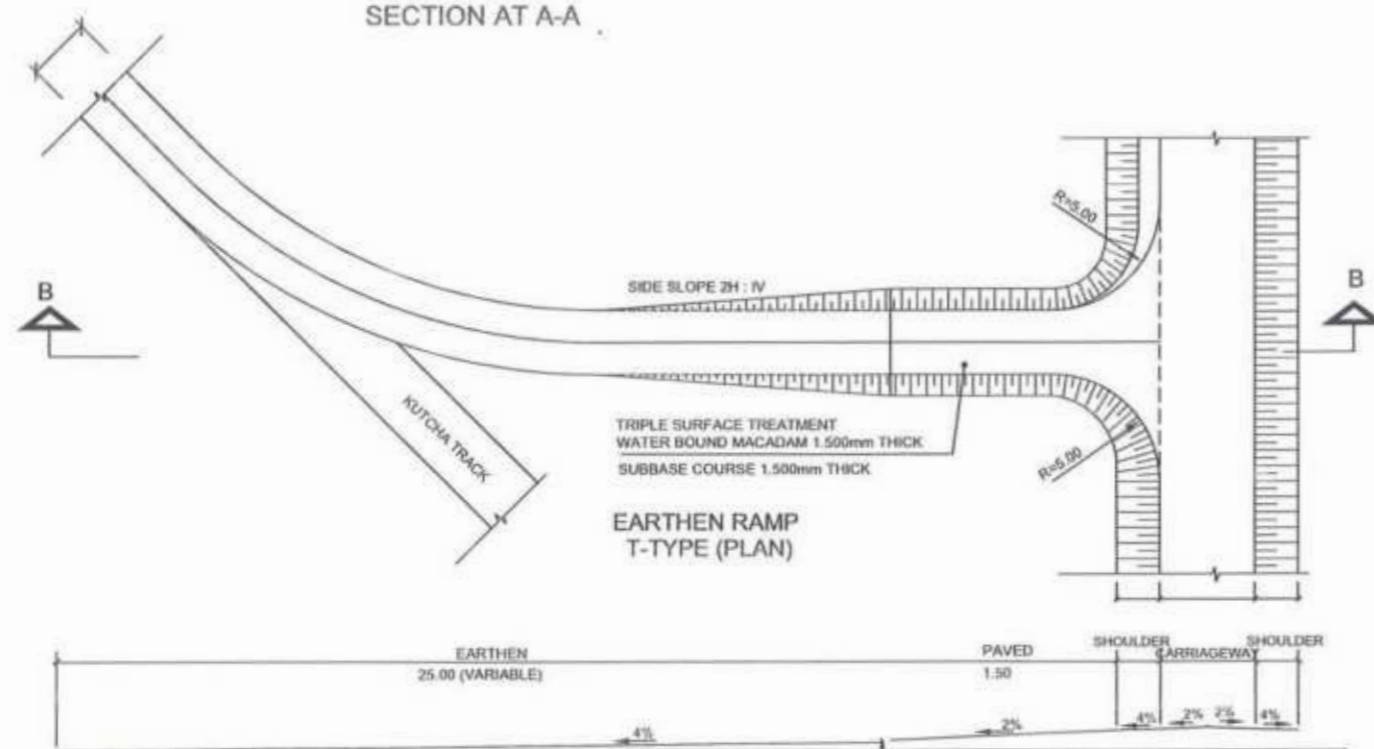
# MINOR JUNCTION DETAIL



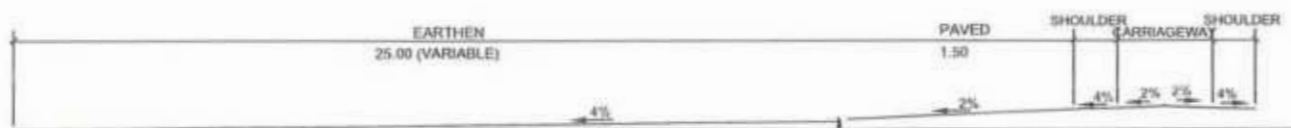
EARTHEN RAMP T-TYPE (PLAN)



SECTION AT A-A



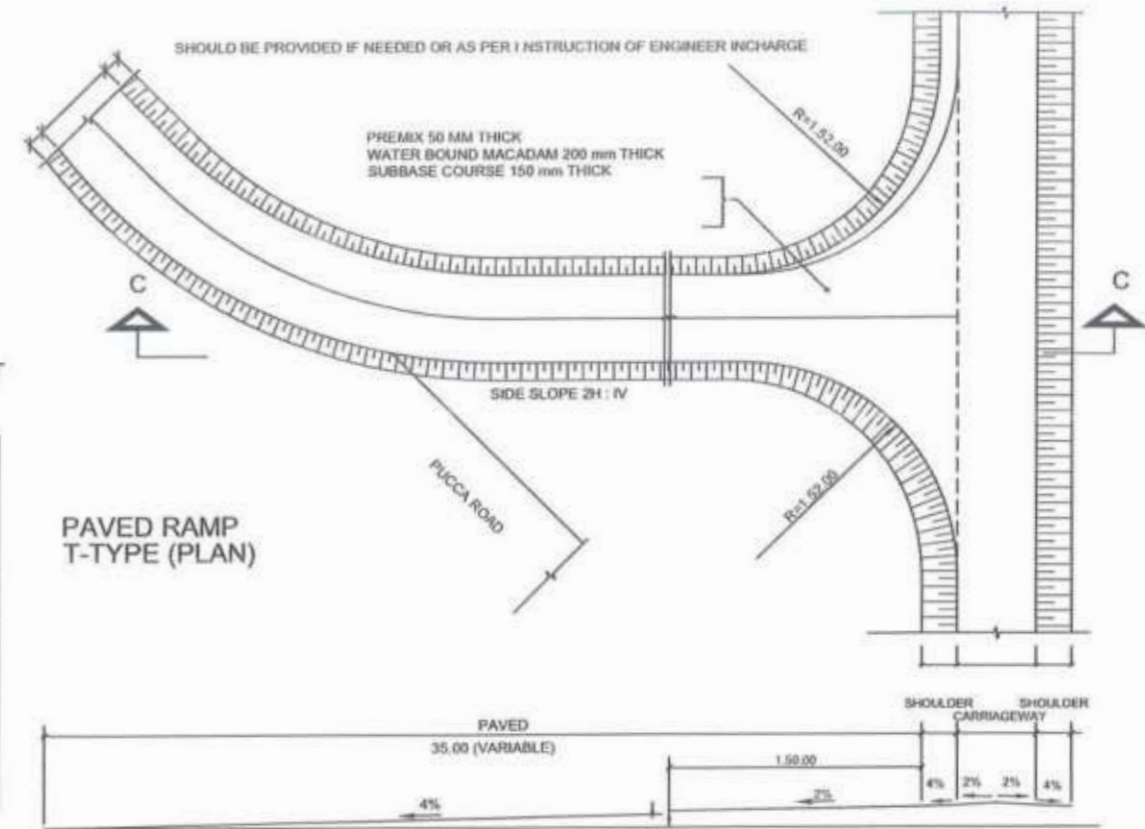
EARTHEN RAMP T-TYPE (PLAN)



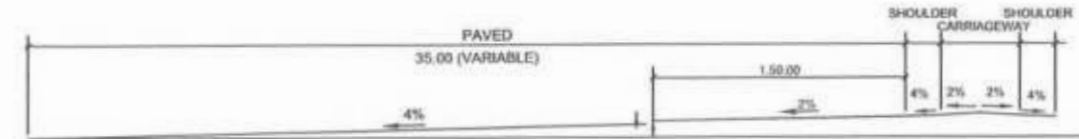
SECTION AT B-B

RECOMMENDED CURVE RADII FOR DIFFERENT ANGLES OF TURN

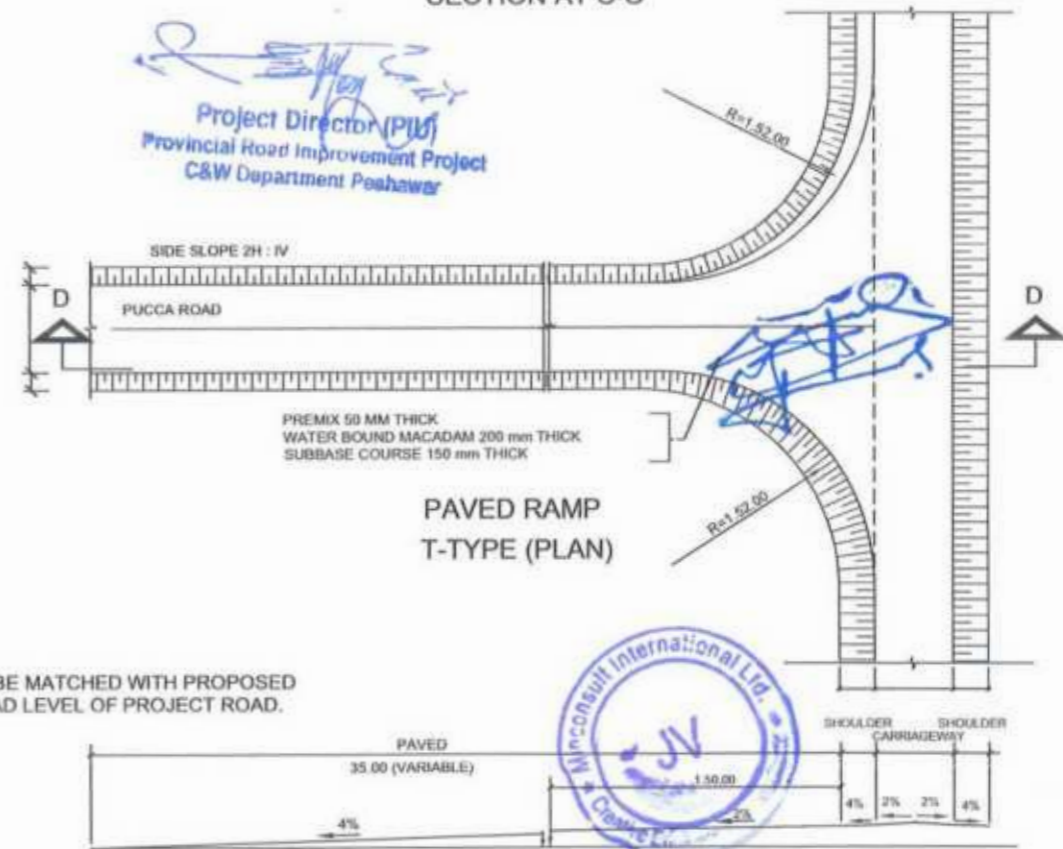
ANGLE OF TURN (DEGREES)	SIMPLE CURVE RADIUS (R) (METRES)
30	30
45	23
60	1.58
75	1.56
90	1.5 TO 1.55
>90	VARIABLE



PAVED RAMP T-TYPE (PLAN)



SECTION AT C-C



PAVED RAMP T-TYPE (PLAN)



SECTION AT D-D

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

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>	DESIGN CONSULTANT: (MIN - JV - CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG. 2024	TENDER DRAWINGS	G.DESIGNED: TAGZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ACCESS ROAD	N.T.5	MINOR JUNCTION DETAILS DATE: AUG, 2024 DWG NO: CEC/HRKP-RRDM-CHT-2/ MJD - 05a
		a			DRAWN: IMRAN TARIQ				
		b			CHECKED: SHAHZAD DURRANI				
		c			APPROVED: AGEEL YOUNIS				

# MINOR JUNCTION DETAIL

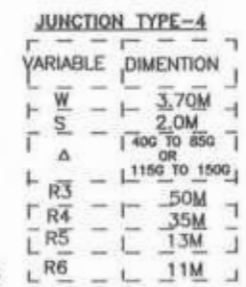
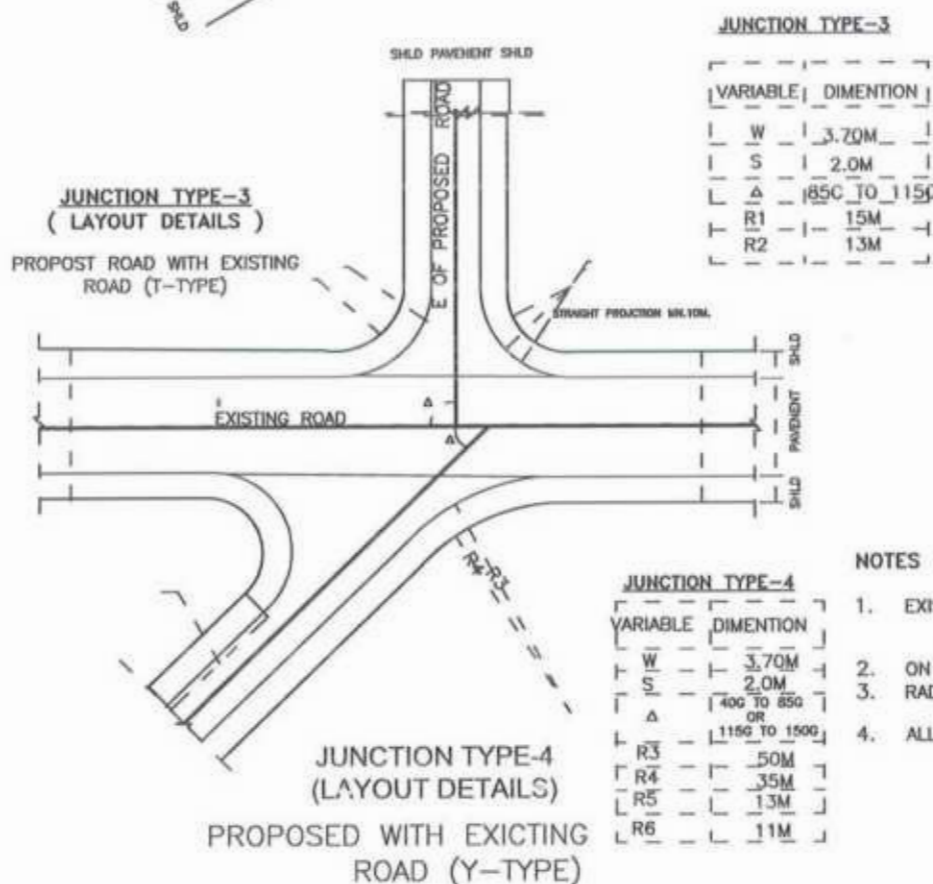
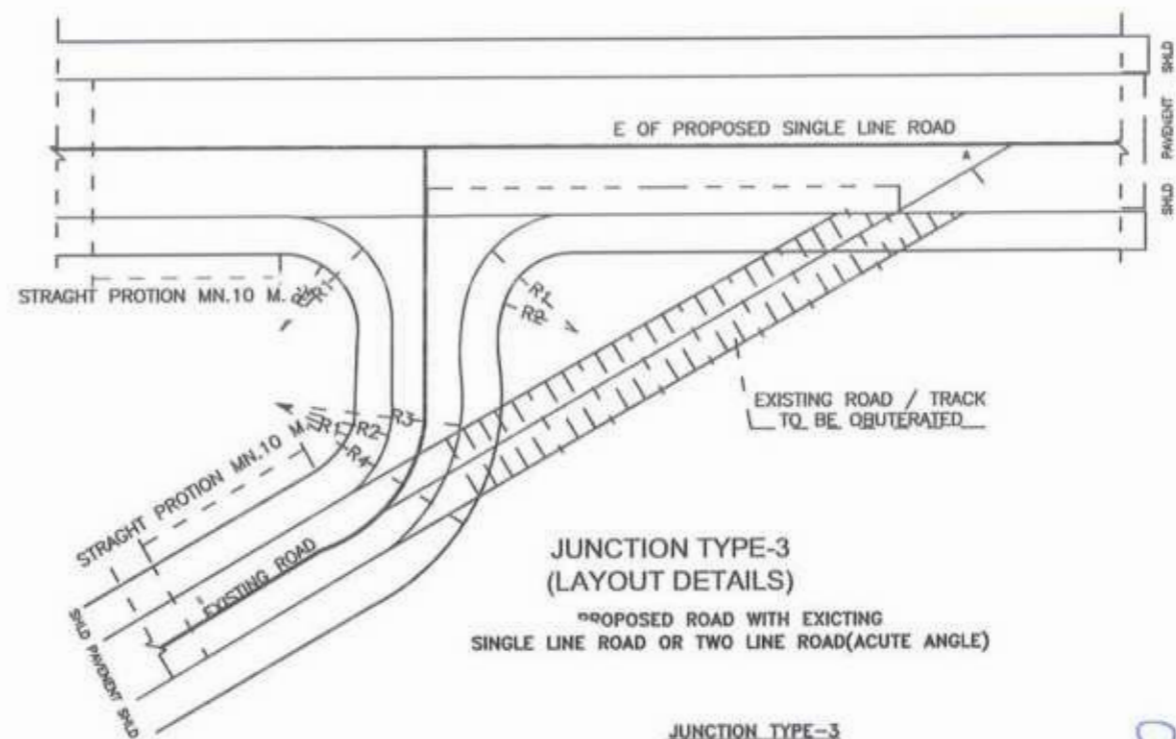
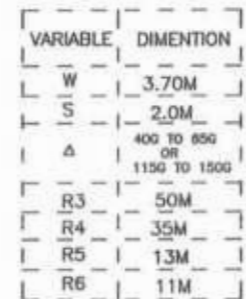
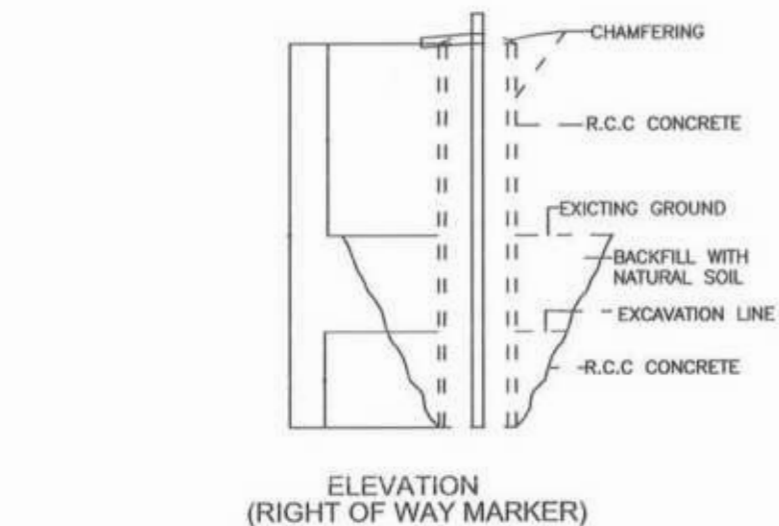
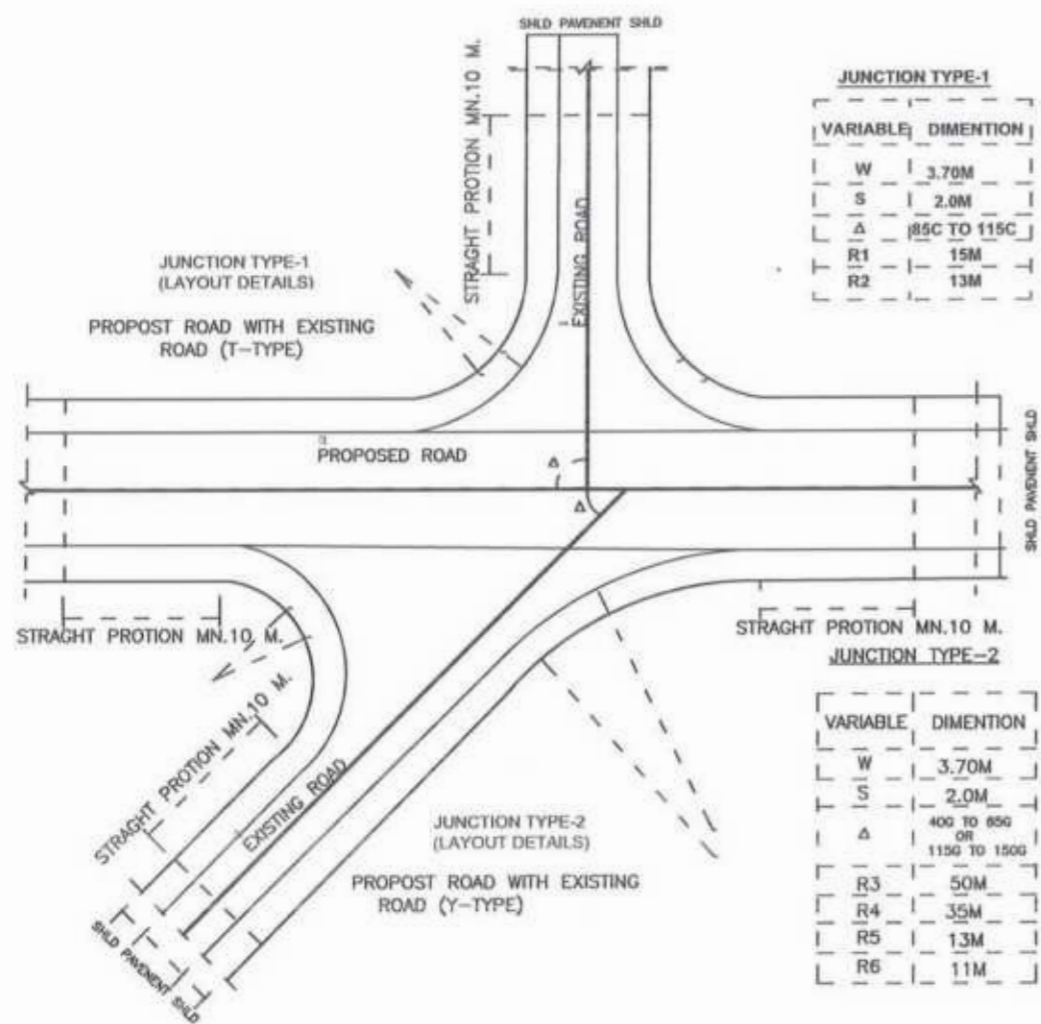


TABLE NO.5 APPLICABLE WHEN  
1 <500 OR >1500  
(JUNCTION WITH 2 LINE  
ROAD)(2) 400 OR 1600 )  
JUNCTION WITH SINGLE ROAD)

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

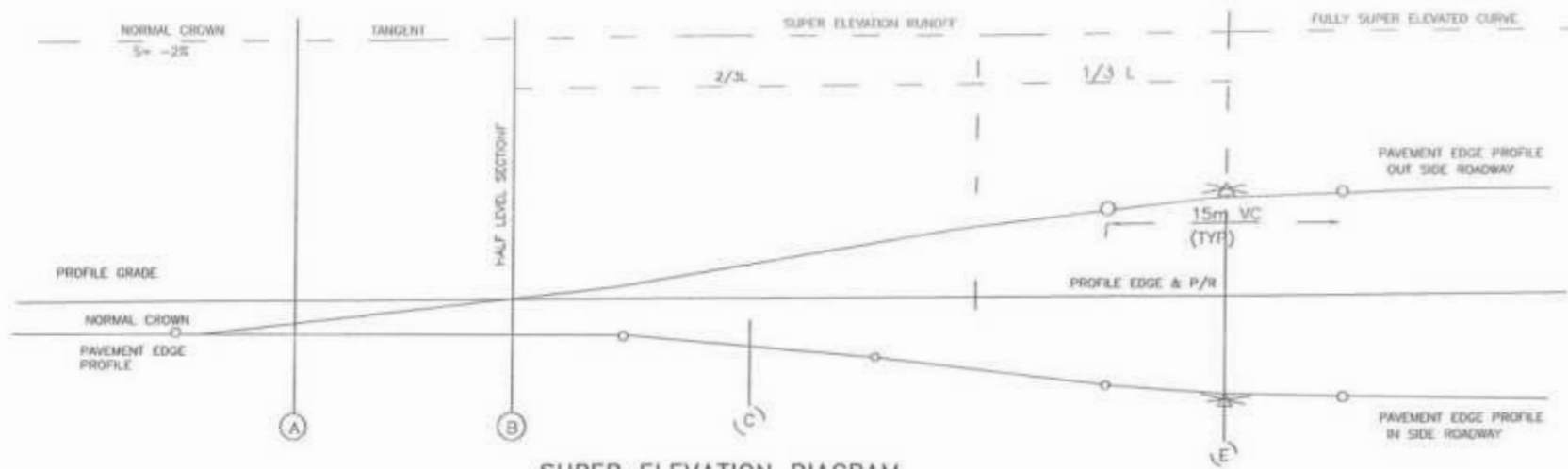
*[Signature]*  
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar

*[Signature]*

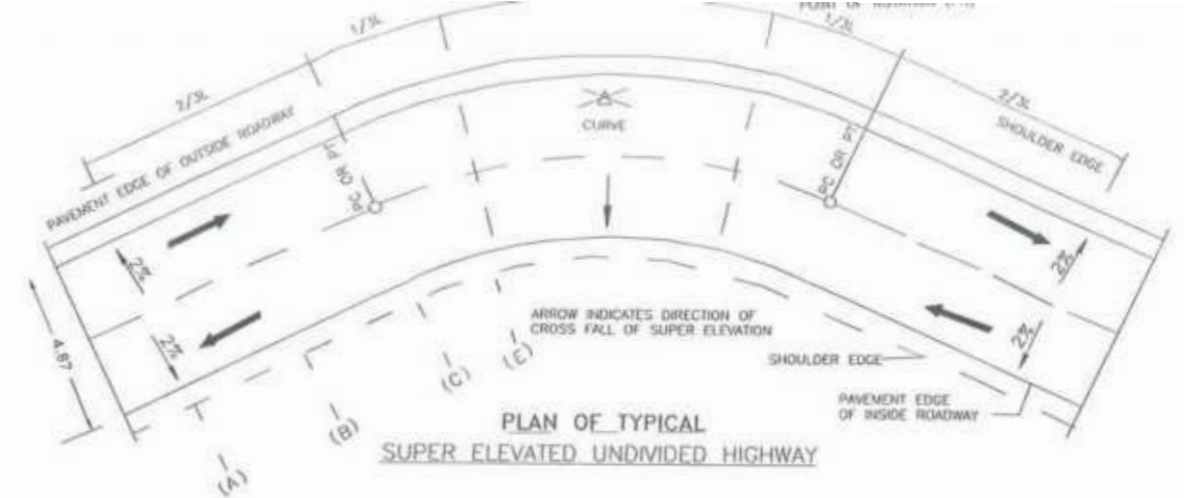
- NOTES :**
- EXISTING ROAD TO BE DISMANTLED WHERE IT MEETS PROPOSED ROAD AT THE JUNCTION LOCATION ONLY AND WILL BE RECONSTRUCTED ACCORDING TO JUNCTION DETAIL AND LIMITS.
  - ON JUNCTION MIN. 10 METER STRAIGHT PORTION SHOULD BE PROVIDED.
  - RAD# SHOWN ARE TYPICAL AND MAY BE ADJUSTED AS PER SITE CONDITIONS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



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. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED: TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2	N.T.S	MINOR JUNCTION DETAILS
		a			DRAWN: IMRAN TARIQ		OSAIC TO ORSOON	DATE:	
		b			CHECKED: SHAHZAD DURRANI		ACCESS ROAD	AUG, 2024	
		c			APPROVED: AGEEL YOUNIS			DWG NO. CEC/RWKP/RRDP/N-CHT-2/ MJD - 056	

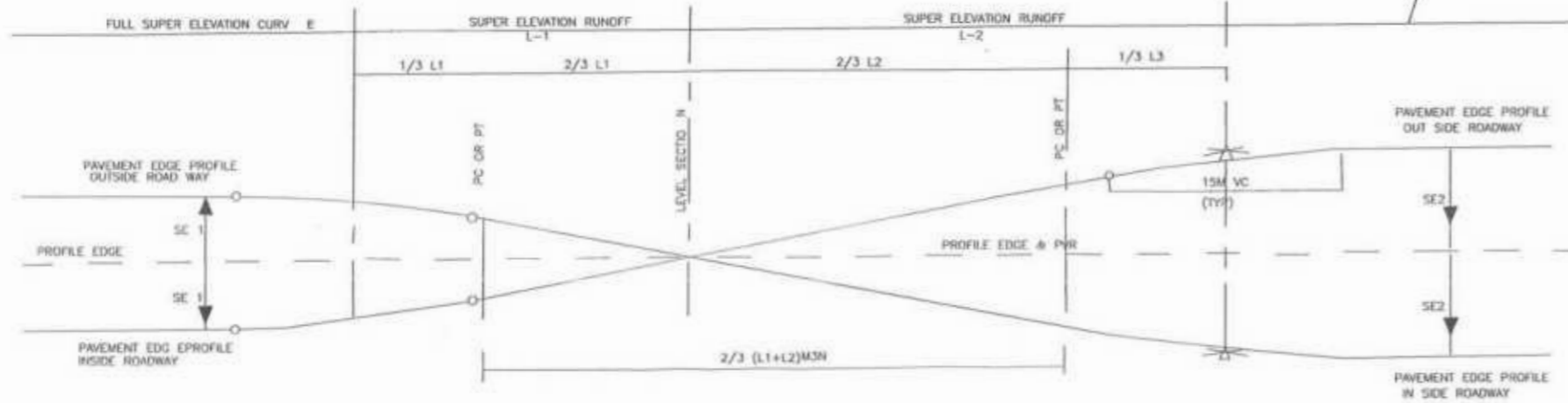


SUPER ELEVATION DIAGRAM ON SIMPLE RIGHT AND CURVES



PLAN OF TYPICAL SUPER ELEVATED UNDIVIDED HIGHWAY

FULLY SUPER ELEVATION CURVE



SUPER ELEVATION DIAGRAM ON REVERSE CURVES

COMPUTATION OF SUPER ELEVATION

RADIUS	40 KPH		60 KPH	
	SE (m/m)	L (m/m)	SE (m/m)	L (m/m)
950				
900				
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	28
21			0.060	29

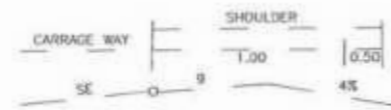
ROADWAY WIDENING

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	-	-	-

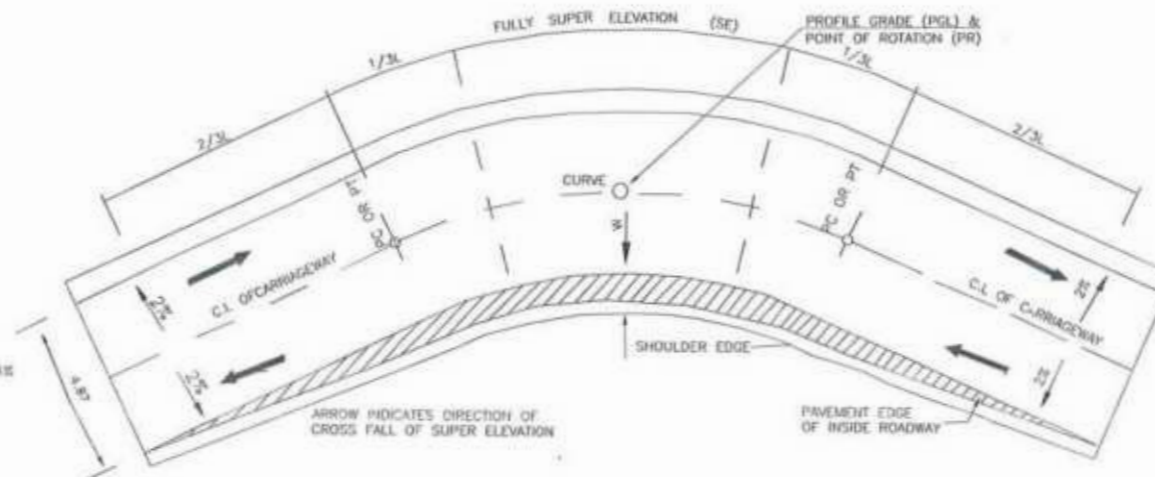
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar

SHOULDER	CARRIAGEWAY		SHOULDER
1.00	2.435	2.435	1.00
-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%	-2%
+2%	+6%	+6%	-0%



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 6%
2. WHERE THE DIFFERENCE EXCEED 6% THE ABOVE CROWNING OF SHOULDERS SHOULD BE USED WITH  $g = (6 - SE)\%$

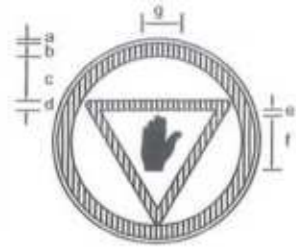


ROAD WIDENING AND SUPER ELEVATED UNDIVIDED HIGHWAY



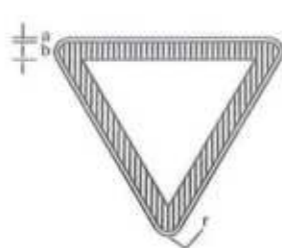
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG. 2024	TENDER DRAWINGS	G. DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON	N.T.S	SUPER ELEVATION DETAILS
		a			DRAWN IMRAN TARIQ				
		b			CHECKED SHAHZAD DURRANI				
		c			APPROVED AQEEL YOUNIS				
							ACCESS ROAD	AUG. 2024	DWD NO: CEC/HRKP/RRDP/N-CHT-2/ SE - 06





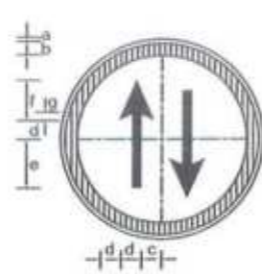
STOP SIGN  
R-1

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	21.60



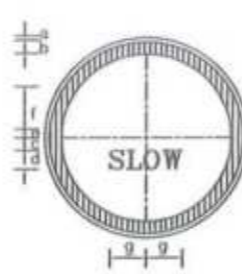
GIVE WAY SIGN  
R-2

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



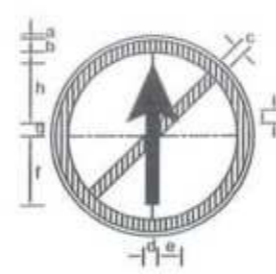
PRIORITY ROAD SIGN  
R-3

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



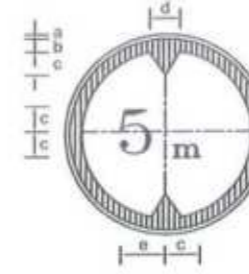
SLOW SIGN  
R-4

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



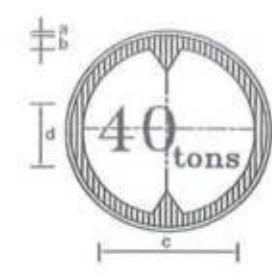
NO ENTRY SIGN  
R-6

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

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



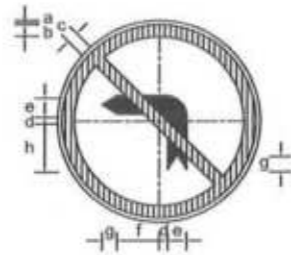
GROSS WEIGHT LIMIT SIGN  
R-18

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



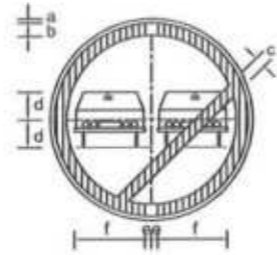
NO RIGHT TURN SIGN  
R-20

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



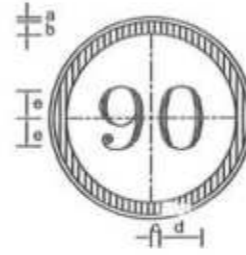
NO LEFT TURN SIGN  
R-21

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



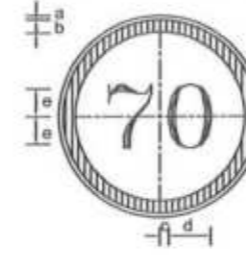
OVERTAKING PROHIBITED SIGN  
R-23

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



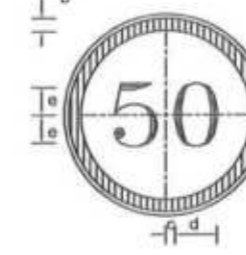
SPEED LIMIT SIGN  
R-25-1

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



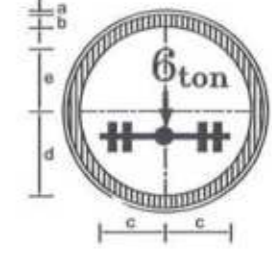
SPEED LIMIT SIGN  
R-25-2

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



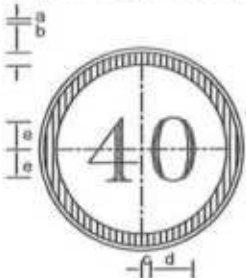
SPEED LIMIT SIGN  
R-25-3

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

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



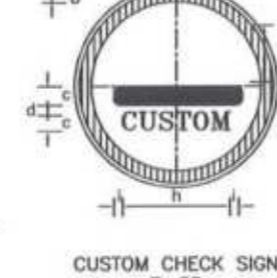
SPEED LIMIT SIGN  
R-25-4

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



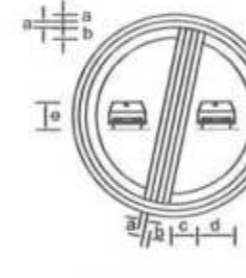
POLICE CHECK POST SIGN  
R-27

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



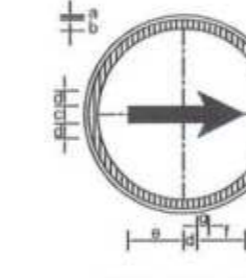
CUSTOM CHECK SIGN  
R-28

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



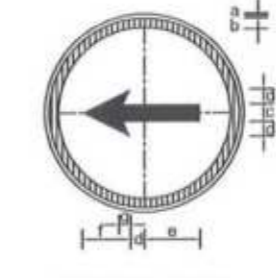
END OF OVERTAKING RESTRICTION SIGN  
R-31

PARTS	SIGN SIZE	
	90cm	105cm
a	1.0	1.2
b	1.7	7.6
c	10.0	11.7
d	25.0	29.2
e	21.0	24.5



TURN RIGHT SIGN  
R-34

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



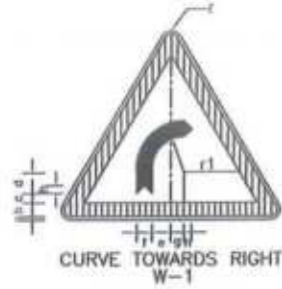
TURN LEFT SIGN  
R-35

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

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

For Sign Locations Refer To Plan Sheets.  
2 - Final Location To Be Decide 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 Sheatings In Accordance With The Relevant Clause In The Specification.  
Sign Legends Shall Be Approved By Engineer And Client.

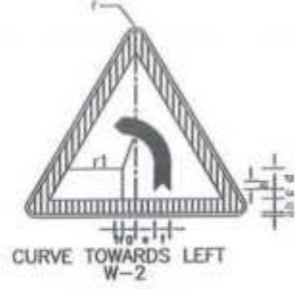
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV 0 a b c	DATE AUG, 2024	DESCRIPTION TENDER DRAWINGS	NAMES: G.DESIGNED TANZEEL DRAWN IMRAN TARIQ CHECKED SHAHZAD DURRANI APPROVED AGEEL YOUNIS	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	ROAD NAME: N-CHT-2 OSAIC TO ORSOON ACCESS ROAD	SCALE: N.T.S DATE: AUG, 2024	SHEET CONTENT: TRAFFIC SIGNS DETAILS DWG NO: CEC/MIN/RRDP-N-CHT-2/ TSD - 11/a
--	---	-------------------------	-------------------	--------------------------------	---	--	---	---------------------------------------	---



**CURVE TOWARDS RIGHT W-1**

DIMENSIONS (cm)

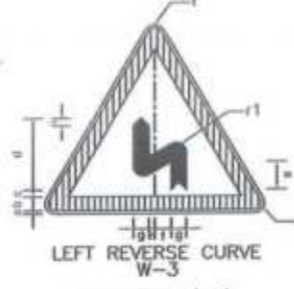
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	11.5	13.4
e	8.5	9.9
f	7.0	8.2
g	6.0	7.0
h	3.5	4.1
r1	12.5	14.6



**CURVE TOWARDS LEFT W-2**

DIMENSIONS (cm)

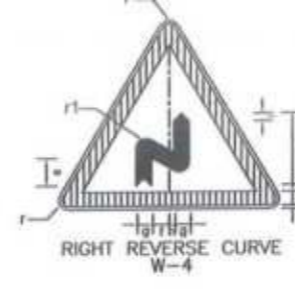
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	11.5	13.4
e	8.5	9.9
f	7.0	8.2
g	6.0	7.0
h	3.5	4.1
r1	12.5	14.6



**LEFT REVERSE CURVE W-3**

DIMENSIONS (cm)

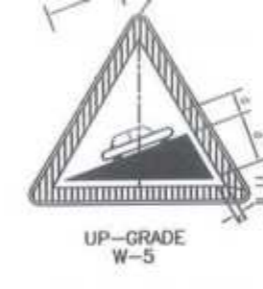
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	33.0	38.5
e	14.0	16.3
f	8.0	9.3
g	7.0	8.2
h	2.0	2.3
i	3.5	4.1
r1	4.5	5.2



**RIGHT REVERSE CURVE W-4**

DIMENSIONS (cm)

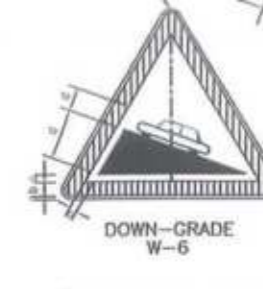
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	33.0	38.5
e	14.0	16.3
f	8.0	9.3
g	7.0	8.2
h	2.0	2.3
i	3.5	4.1
R1	4.5	5.2



**UP-GRADE W-5**

DIMENSIONS (cm)

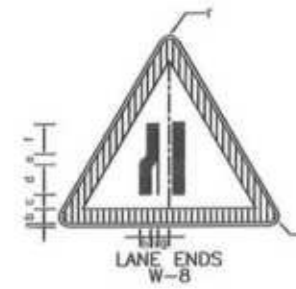
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.5	4.1
d	23.5	27.4
e	11.5	13.4
f	33.0	38.5



**DOWN-GRADE W-6**

DIMENSIONS (cm)

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**

DIMENSIONS (cm)

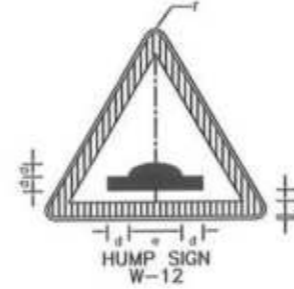
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.0	3.5
d	14.0	16.3
e	7.2	8.4
f	11.3	13.2
g	3.5	4.1
h	33.0	5.8



**CARRIAGE WAY NARROWS W-8**

DIMENSIONS (cm)

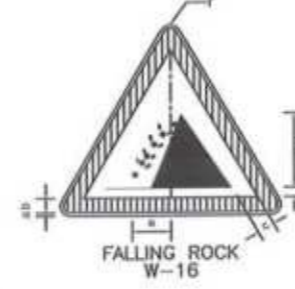
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	3.5	4.1
d	10.0	11.7
e	14.0	16.3
f	2.5	2.9
g	5.0	5.8



**HUMP SIGN W-12**

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	7.0	8.2
e	32.0	37.3



**FALLING ROCK W-16**

DIMENSIONS (cm)

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**

DIMENSIONS (cm)

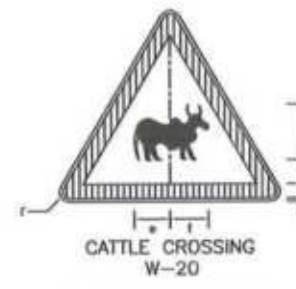
PARTS	SIGN SIZE	
	90cm	105cm
r	2.9	3.5
a	0.8	1.0
b	5.4	6.5
c	2.1	2.5
d	35.8	43.0
e	19.2	23.0



**CHILDREN CROSSING W-18**

DIMENSIONS (cm)

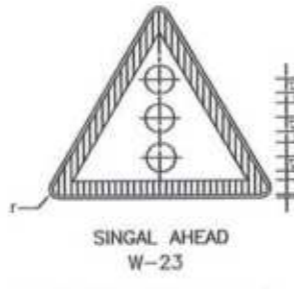
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.5	5.3
d	28.5	33.3
e	37.5	43.8



**CATTLE CROSSING W-20**

DIMENSIONS (cm)

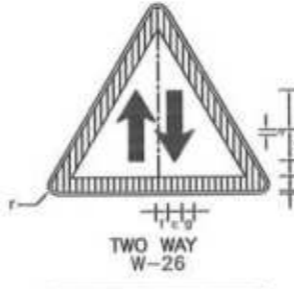
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	2.0	2.3
d	22.0	25.7
e	18.5	21.6
f	17.5	20.4



**SINGAL AHEAD W-23**

DIMENSIONS (cm)

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**

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	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**

DIMENSIONS (cm)

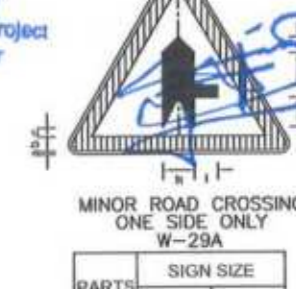
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	4.0	4.7
d	15.0	17.5
e	6.0	7.0
f	11.0	12.8
g	13.5	15.7
h	8.5	9.9



**MINOR ROAD CROSSING ONE SIDE ONLY W-29**

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	13.5	15.8
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**

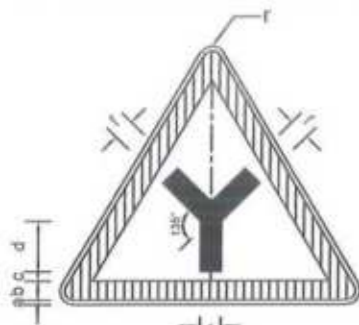
DIMENSIONS (cm)

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	13.5	15.8
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

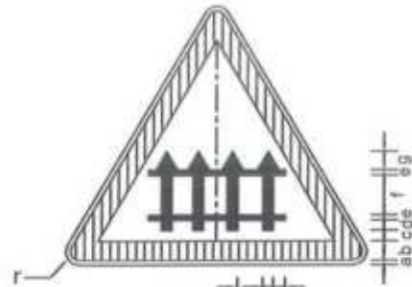


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG. 2024	TENDER DRAWINGS	G.DESIGNED TANZEEL DRAWN IMRAN TARIQ CHECKED SHAHZAD DURRANI APPROVED AGEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ACCESS ROAD	N.T.S AUG. 2024	TRAFFIC SIGNS DETAILS DWG NO: CEC/RRDP/RRDN-CHT-2/ TSD - 086



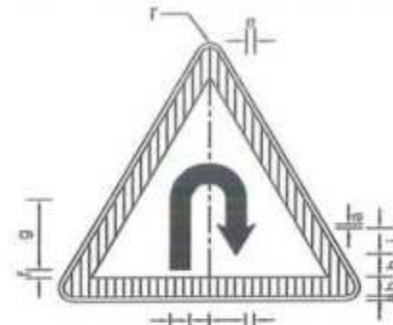
JUNCTION SIGN  
W-31

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	17.0	19.8
e	13.0	15.2
f	7.0	8.2



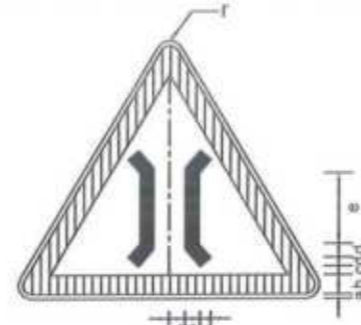
LEVEL CROSSING  
WITH GATES  
W-33

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	1.5	1.8
d	2.5	2.9
e	3.0	3.5
f	7.5	8.8
g	3.5	4.1
h	2.0	2.3
i	4.0	4.7



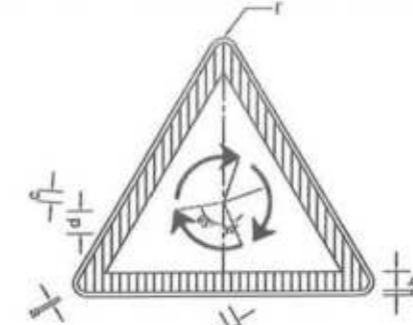
U-TURN  
W-34

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	5.5	6.4
d	7.0	8.2
e	5.0	5.8
f	2.5	2.9
g	23.0	26.8
h	7.5	8.8
i	12.0	14.0



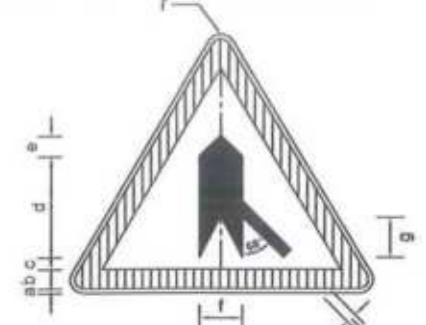
NARROW BRIDGE  
W-35

PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	6.0	7.0
d	2.5	2.9
e	15.0	17.5
f	4.0	4.7
g	3.0	3.5



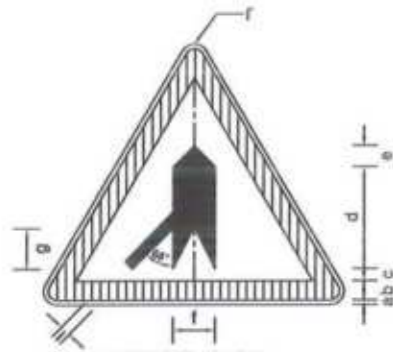
ROUNDBOUT AHEAD  
W-36

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	9.0	10.5
R1	12.0	14.0
R2	16.0	18.7



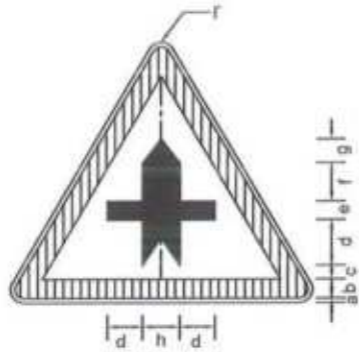
MERGE SIGN  
W-37

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	33.0	38.5
e	7.0	8.2
f	14.0	16.3
g	15.0	17.5
h	3.0	3.5
i	5.5	6.4



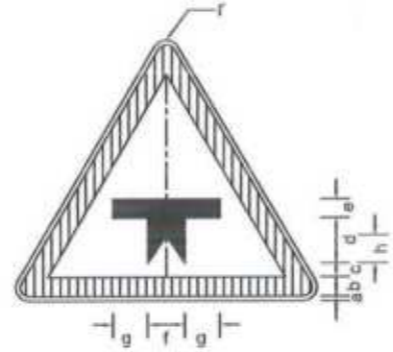
MERGE SIGN  
W-37A

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	33.0	38.5
e	7.0	8.2
f	14.0	16.3
g	15.0	17.5
h	3.0	3.5
i	5.5	6.4



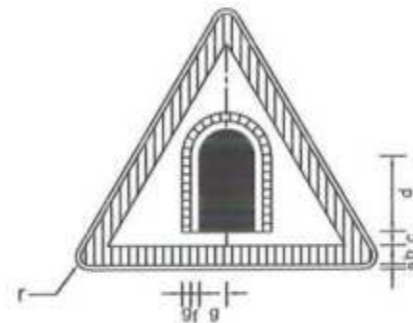
MAJOR ROAD AHEAD  
W-38

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	13.0	15.2
e	7.0	8.2
f	10.0	11.7
g	2.5	2.9
h	5.0	5.8



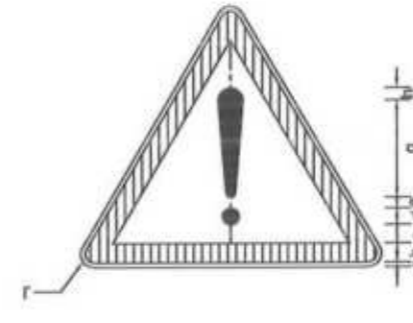
MAJOR ROAD AHEAD  
W-39

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	15.5	18.1
e	7.0	8.2
f	5.0	5.8
g	11.0	12.8
h	2.5	2.9



TUNNEL SIGN  
W-40

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
d	17.0	19.8
e	9.0	10.5
f	2.0	2.3
g	4.0	4.7



OTHER DANGER WARNING  
W-40

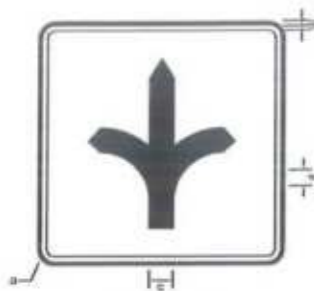
PARTS	SIGN SIZE	
	90cm	105cm
r	3.5	4.1
a	1.0	1.2
b	6.5	7.6
c	2.5	2.9
d	10.0	11.7
e	2.0	2.3
f	1.7	2.0
g	25.0	29.2
h	5.0	5.8

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

*[Signature]*

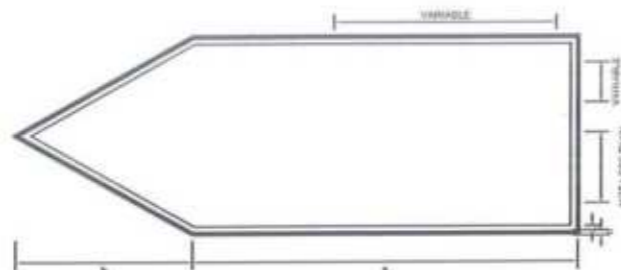


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 98835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG, 2024	TENDER DRAWINGS	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON  ACCESS ROAD	N.T.S	TRAFFIC SIGNS DETAILS  DWG NO: CEC/RRDP/RRDN-CHT-2/ TSD - 01/
		a			DRAWN	IMRAN TARIQ				
		b			CHECKED	SHAHZAD DURRANI				
c			APPROVED	AQEEL YOUNG						



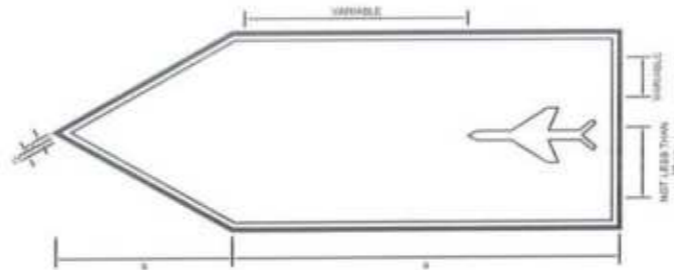
DESTINATION SIGN  
I-1

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



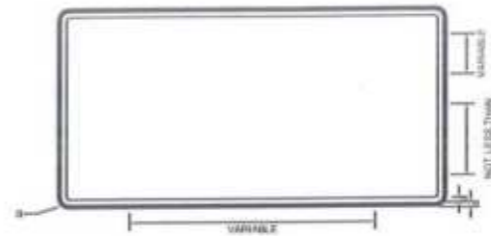
DIRECTION SIGN  
I-3

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



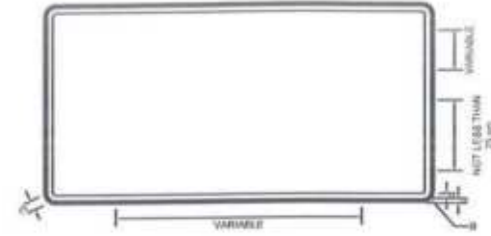
DIRECTION SIGN  
I-4

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



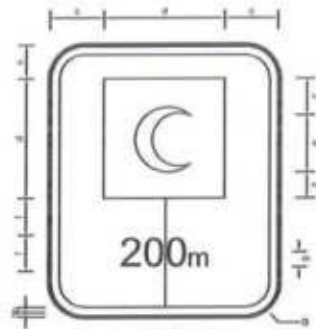
BEGINNING OF MUNICIPAL LIMIT  
I-5

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



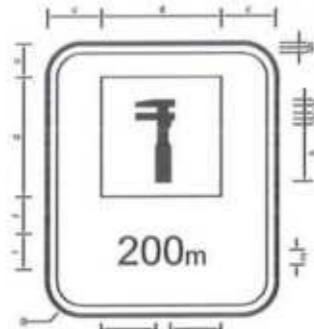
END OF MUNICIPAL LIMIT  
I-6

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



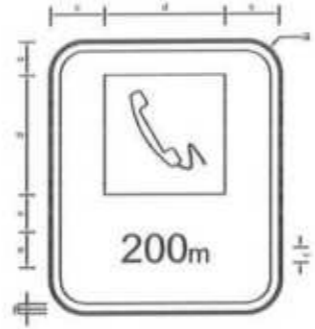
FIRST AID STATION  
I-9

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



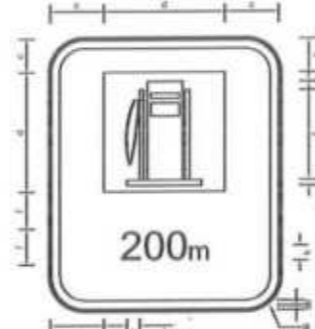
AUTO REPAIR SHOP  
I-10

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	28.0
m	14.0



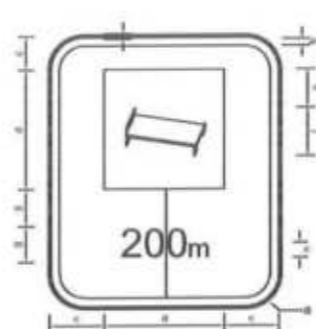
PHONE SERVICE  
I-11

SIGN SIZE	
120 x 180	
a	6.0
b	2.4
c	20.0
d	80.0
e	28.0
f	14.0



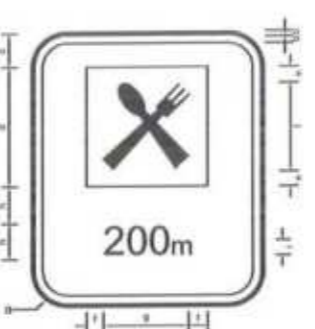
PETROL PUMP  
I-12

SIGN SIZE	
120 x 180	
a	6.0
b	2.4
c	20.0
d	80.0
e	4.0
f	60.0
g	8.0
h	12.0
i	17.0
j	26.0
k	14.0



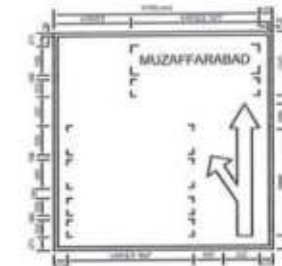
HOTEL / MOTEL  
I-13

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 28.0
h	10.5 14.0

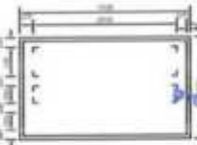


RESTAURANT  
I-14

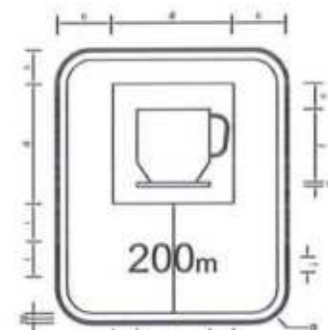
SIGN SIZE	
90 x 135 120 x 180	
a	4.5 6.0
b	1.8 2.4
c	15.0 20.0
d	60.0 80.0
e	51.0 68.0
f	12.0 16.0
g	36.0 48.0
h	19.5 26.0
i	10.5 14.0



JUNCTION SIGN  
(250m SHORT OF JUNCTION)



DESTINATION SIGN  
(200m OF LIMITS OF TOWN)



CAFETERIA  
I-15

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



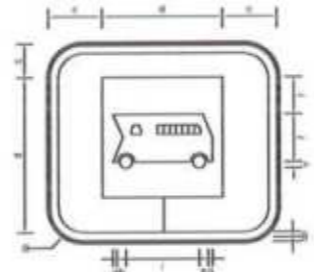
PICNIC SITE  
I-16

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

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



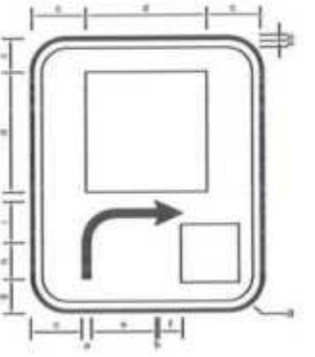
BUS STOP  
I-25

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

SIGN SIZE	
120 x 120	
a	6.0
b	2.4
c	30.0
d	13.0
e	34.0
f	29.0
g	40.0



GENERAL INFORMATION  
I-27

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



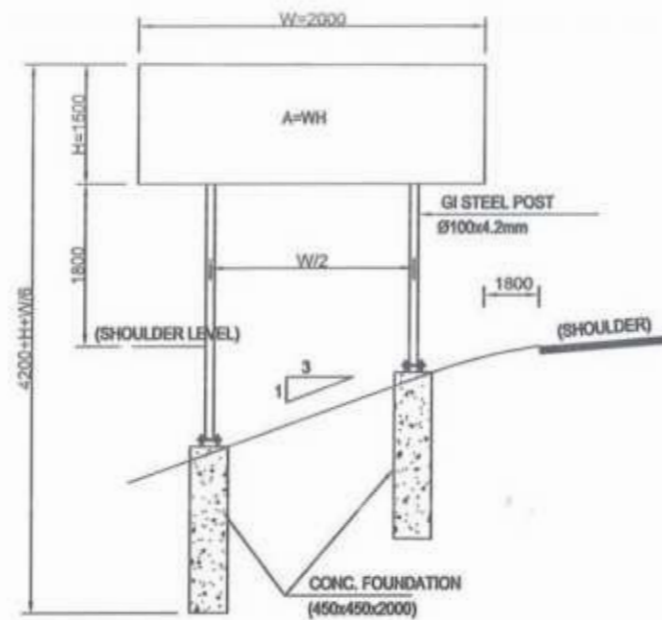
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar

*[Handwritten signature]*

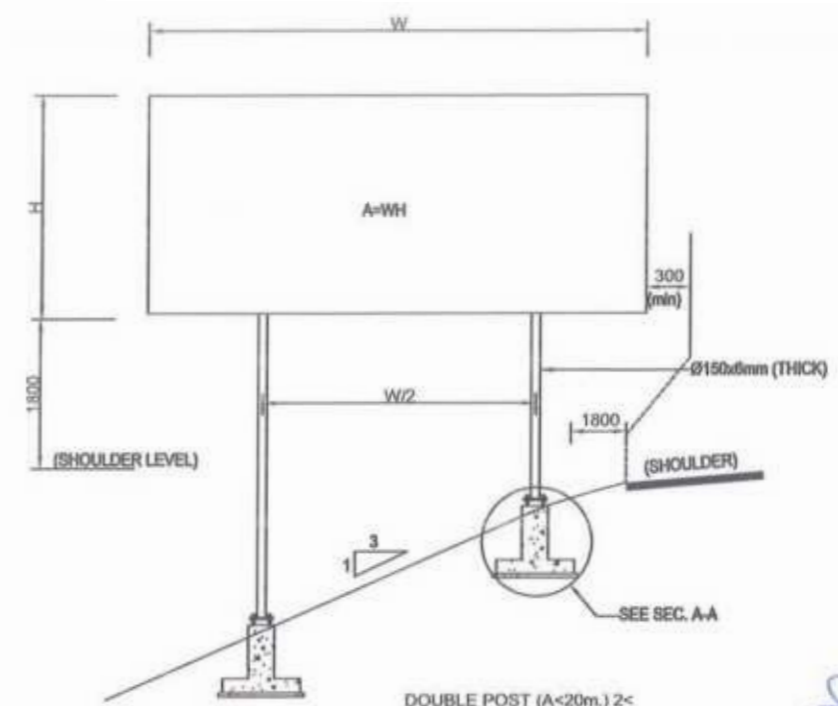
CLIENT: <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG. 2024	TENDER DRAWINGS	G DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ACCESS ROAD	N.T.S	TRAFFIC SIGNS DETAILS (DWG NO. CEC/WWP/RRDP-N-CHT-2) TSD - 076
		a			DRAWN	IMRAN TARIO				
		b			CHECKED	SHAHZAD DURRANI				
c			APPROVED	AQEEL YOUNIS						



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

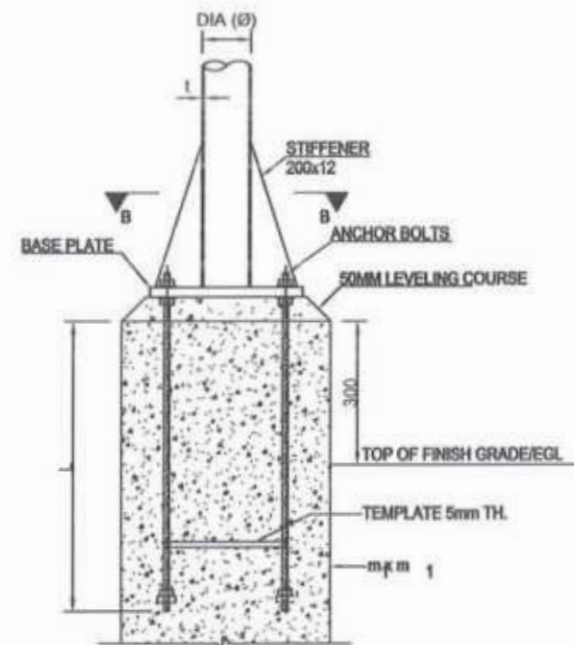


**DOUBLE POST (A < 3m.)**  
**2 < FOUNDATION TYPE-2**

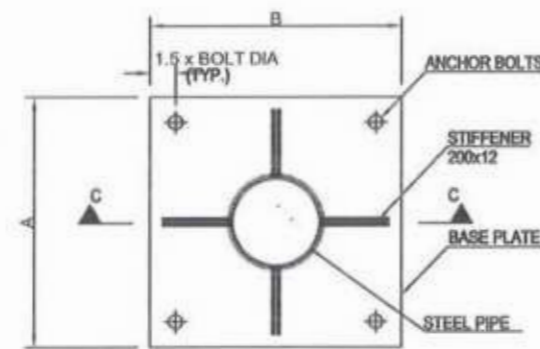


**DOUBLE POST (A < 20m.) 2 <**  
**FOUNDATION TYPE-3**

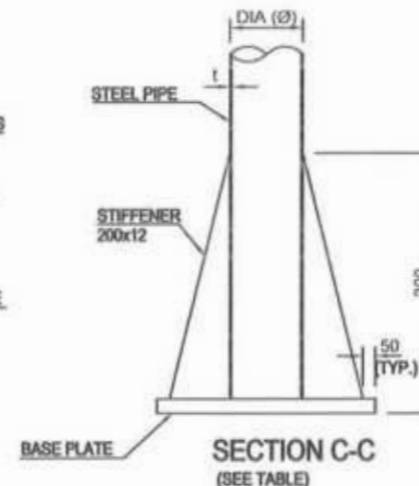
*Project Director (PIU)*  
 Provincial Road Improvement Project  
 C&W Department Peshawar



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



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



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

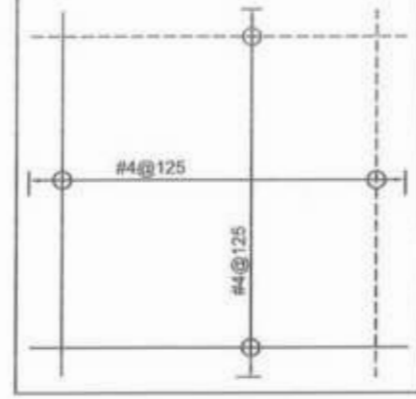
**NOTES:-**

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 896-2, 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 A615 SPECIFICATION.

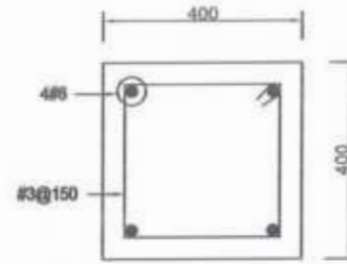
*Handwritten signature*

<p><b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b>          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p><b>MINCONSULT SDN BHD</b>          (COMPANY NO. 31835-P)          J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b></p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON	ACCESS ROAD	N.T.S	TRAFFIC SIGNS FOUNDATION DETAILS
		a			DRAWN	IMRAN TARIQ					
		b			CHECKED	SHAHZAD DURRANI					
c			APPROVED	AQEEL YOUNIS							
CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA DESIGN CONSULTANT: (MIN - JV - CEC) PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP) ROAD NAME: N-CHT-2 OSAIC TO ORSOON SCALE: N.T.S SHEET CONTENT: TRAFFIC SIGNS FOUNDATION DETAILS DATE: AUG, 2024 DWG NO: CEC/RWKP/RRDP/N-CHT-2/ TSD - 07e											

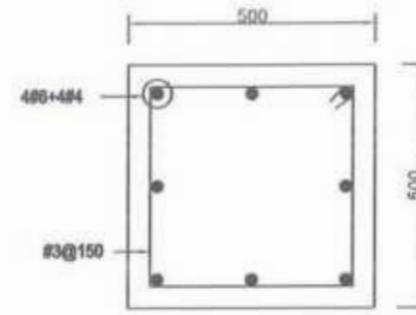




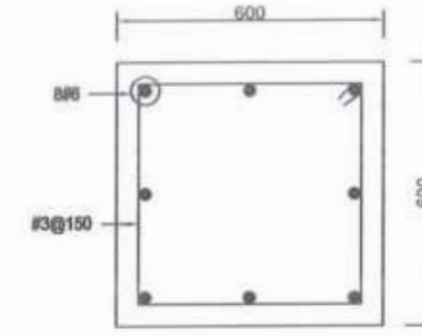
FOUNDATION  
PLAN  
(SEE TABLE)



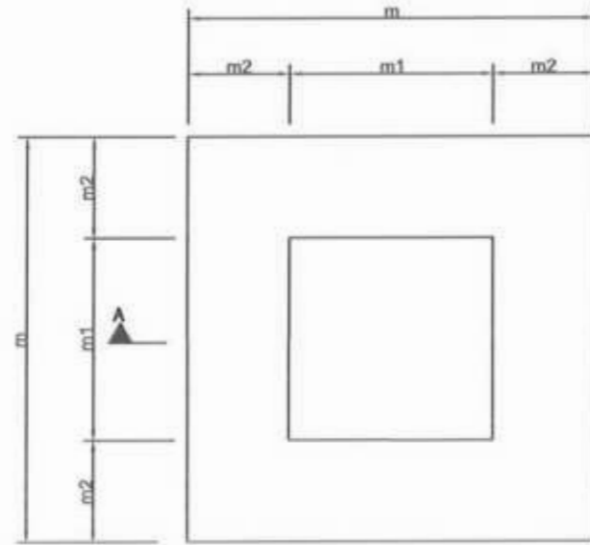
SECTION 1-1



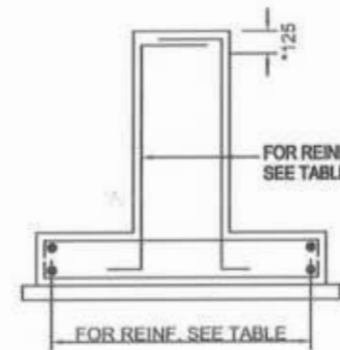
SECTION 2-2



SECTION 3-3

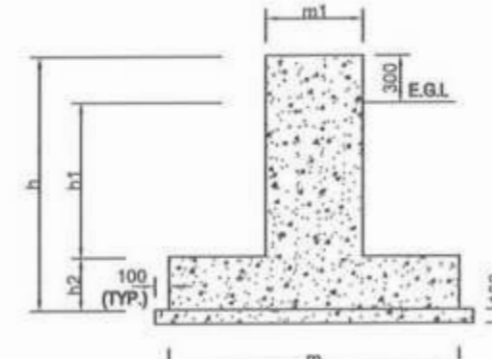


FOUNDATION  
PLAN  
(SEE TABLE)



SECTION A-A  
(REINFORCEMENT)  
(SEE TABLE)

\*ADD 3 TIES OF Ø10 IN THE TOP 125MM OF PEDESTAL WITH EXISTING LATERAL/ SHEAR REINFORCEMENT.



SECTION A-A  
(CONCRETE OUTLINE)  
(SEE TABLE)

\*ADD 3 TIES OF Ø10 IN THE TOP 125MM OF PEDESTAL WITH EXISTING LATERAL/ SHEAR REINFORCEMENT.

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

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

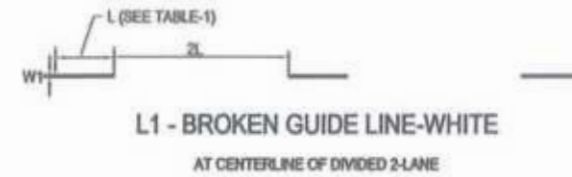
INFORMATION	
FOUNDATION TYPE-1	FOR SINGLE SIGNS AND SINGLE SIGNS WITH ADDITIONAL PLATE
FOUNDATION TYPE-2	FOR DOUBLE SIGNS, FOR SINGLE POST SIGNS WITH AREA <1.5m <sup>2</sup> & FOR DOUBLE POST SIGNS WITH AREA <3m <sup>2</sup>
FOUNDATION TYPE-3	FOR DOUBLE SIGNS WITH 3< AREA <20m <sup>2</sup>



<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 ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON	ACCESS ROAD	N.T.S.	TRAFFIC SIGNS FOUNDATION DETAILS
		a			DRAWN IMRAN TARGO				DATE:	
		b			CHECKED SHAHZAD DURRANI				AUG. 2024	
c			APPROVED AQEEL YOUNIS	DWG NO: CEC/HRKP/RRDN-CHT-2/ TSD - 074						

**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



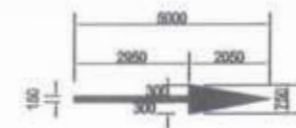
**L8 - TRANSVERSE YIELD LINE - WHITE**

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

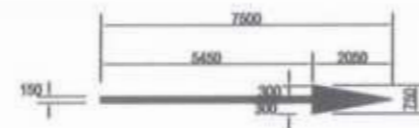


**L9 - DOTTED LINE - YELLOW**

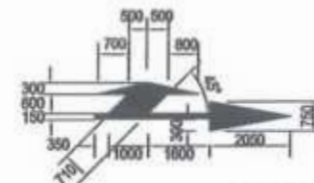
FOR EDGE LINE WHERE PARKING BAYS ARE PROVIDED OUTSIDE THE LANE



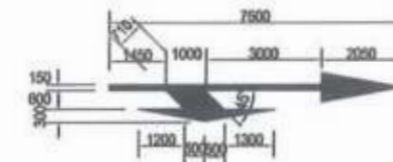
**ARROWS TYPE-I (STRAIGHT)**



**ARROWS TYPE-II (COMBINED)**



(FOR <math>\leq 60 \text{ Km/hr}</math>)



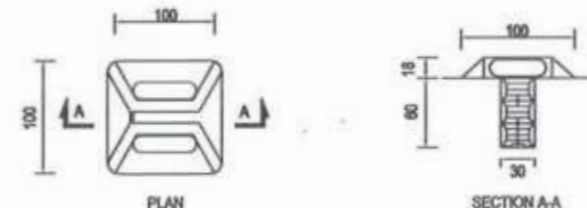
(FOR <math>> 60 \text{ Km/hr}</math>\*)

**ARROWS TYPE-III (DEFLECTION)**

LANE SELECTION ARROWS - WHITE

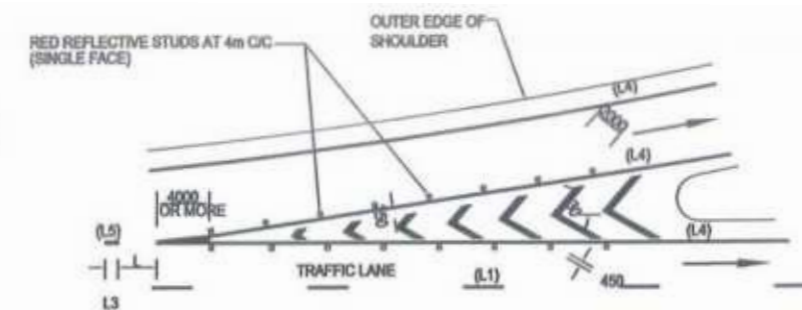
TABLE - 1

ROADWAY SPEED	L (mm)	W1	W2	W3	W4	W5
$\leq 50 \text{ Km/hr}$	2000	100	100	100	300	100
60-80 Km/hr*	3000	120	120	150	300	100
$> 80 \text{ Km/hr}$	4000	150	150	150	300	120
SERVICE ROAD	2000	100	120	100	300	100

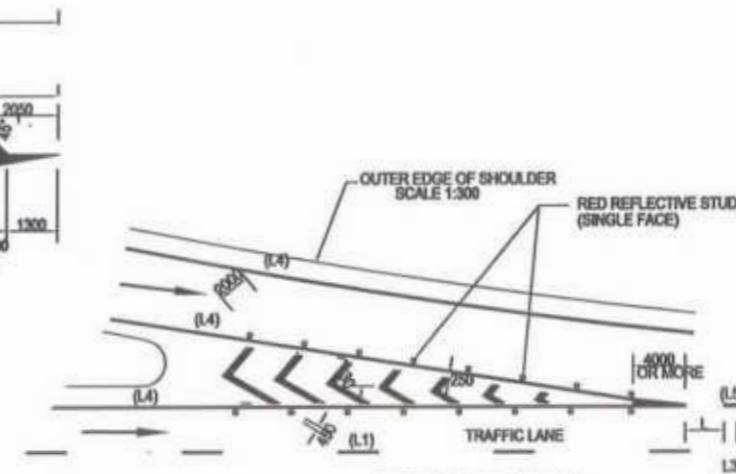


**REFLECTORISED PAVEMENT STUD**

(RAISED PROFILE TYPE)

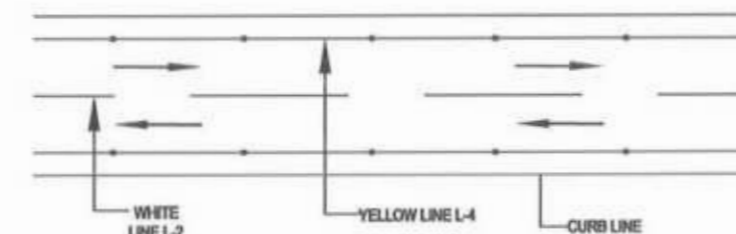


**ENTRANCE NOSE DETAIL**



**EXIT NOSE DETAIL**

SCALE 1:300



**PROJECT ROAD**

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

*[Handwritten signature]*

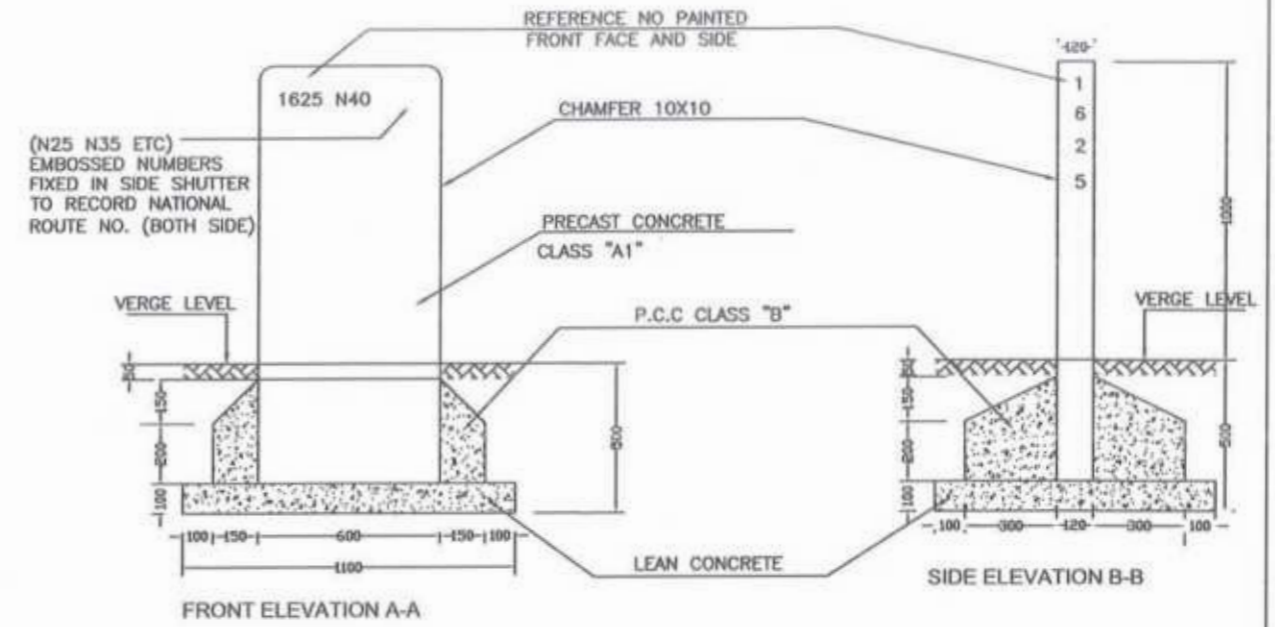
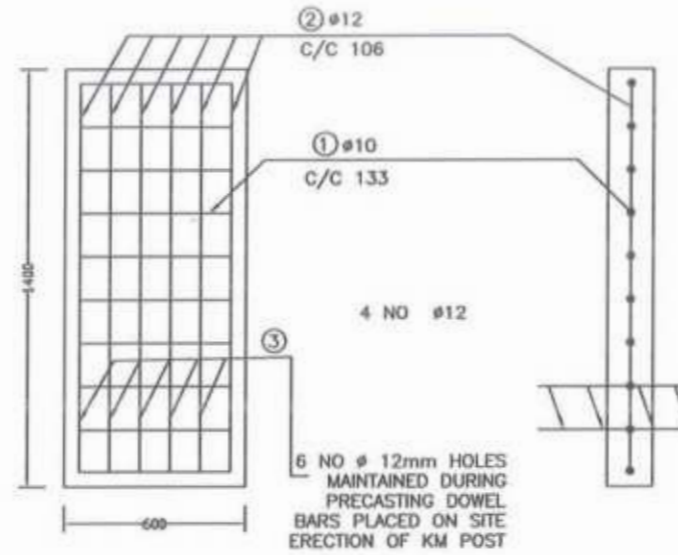
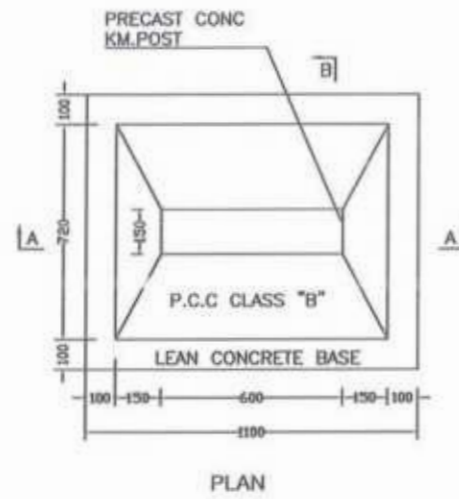


<p><b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
		0	AUG. 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON	N.T.5	TYPICAL PAVEMENT MARKING DETAILS
		a			DRAWN	IMRAN TARIQ				
		b			CHECKED	SHAHZAD DURRANI				
		c			APPROVED	AGEEL YOUNIS				
					ACCESS ROAD	AUG. 2024				



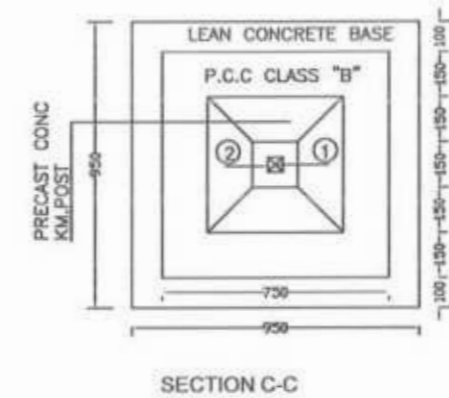
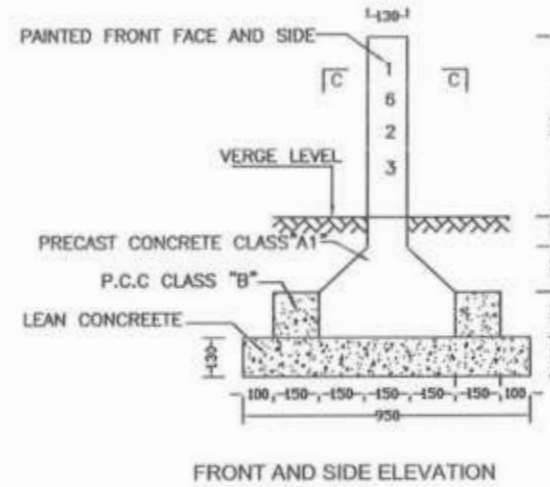
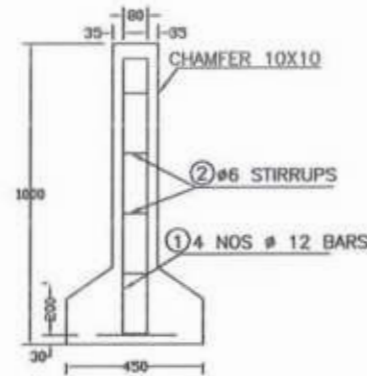
BAR NO	DESCRIPTION	DIA. (mm)	NO
①	530mm	10	11
②	1330mm	10	6
③	620mm	12	6
④	620mm	12	4

TABLE-1  
REINFORCEMENT SCHEDULE



FIVE KILOMETER POST

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



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

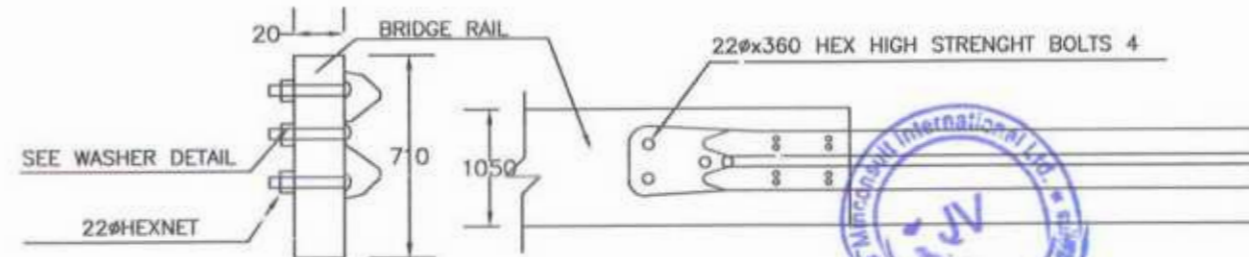
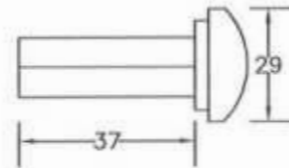
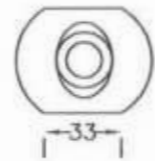
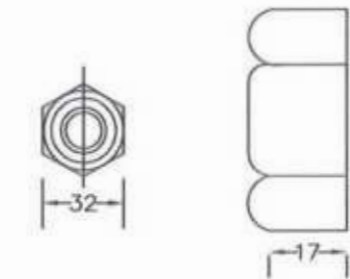
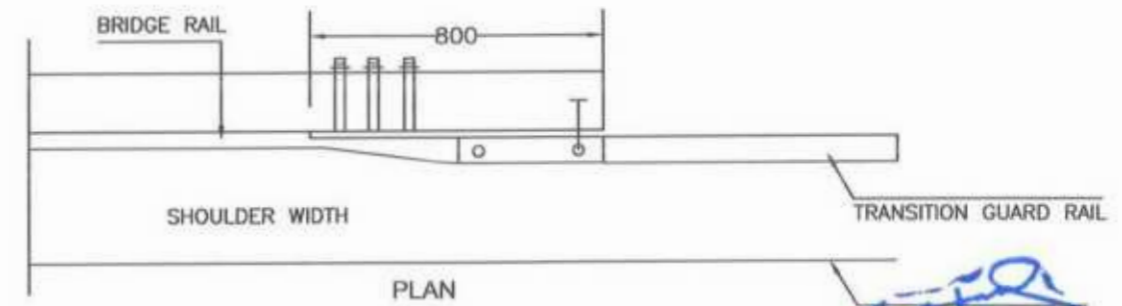
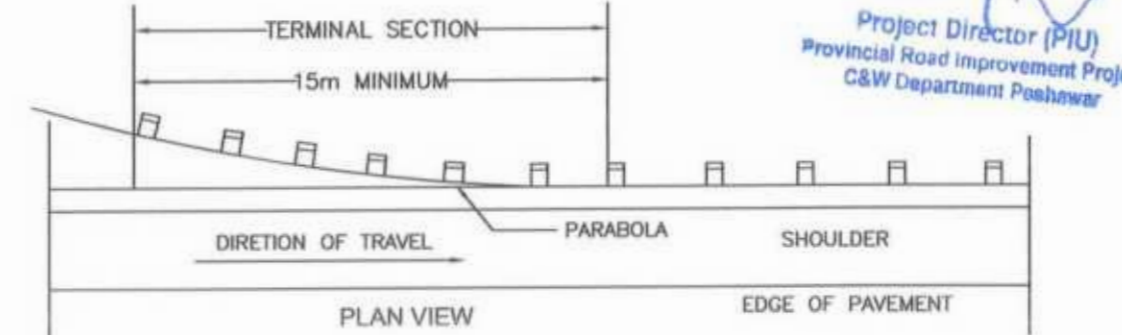
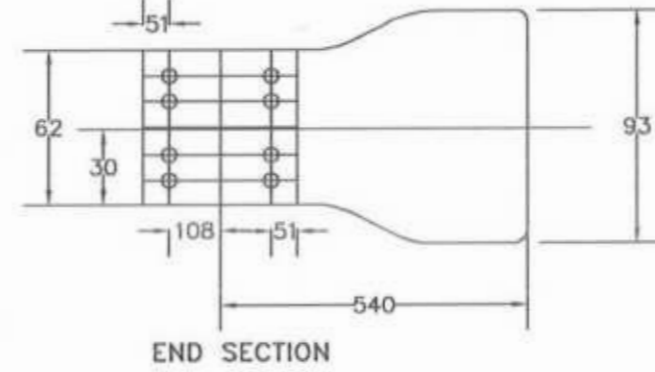
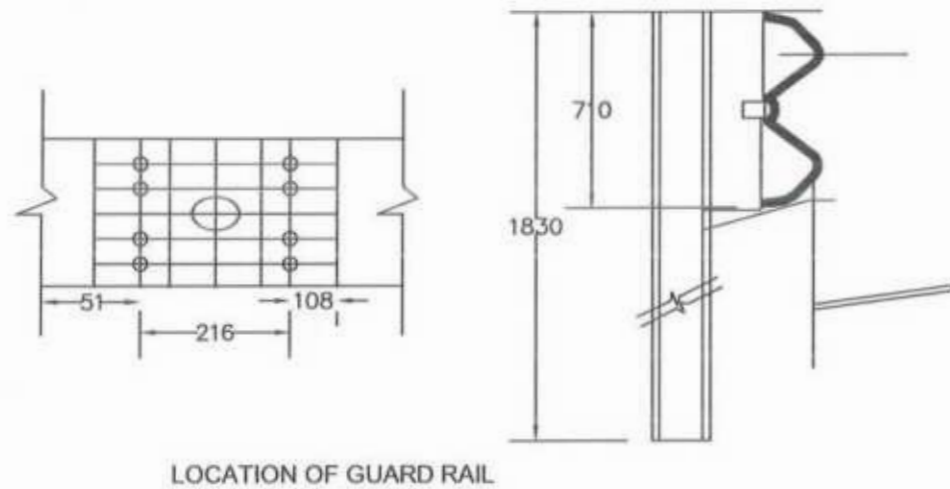
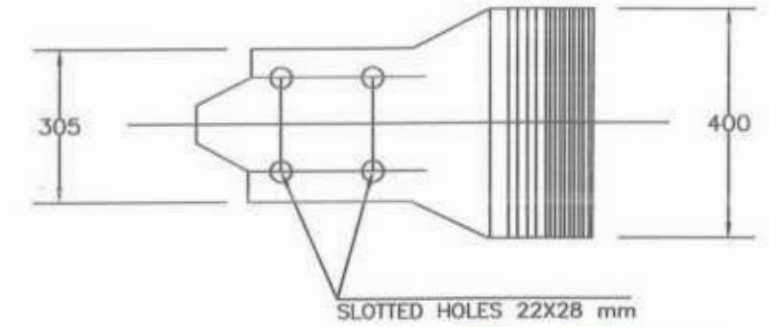
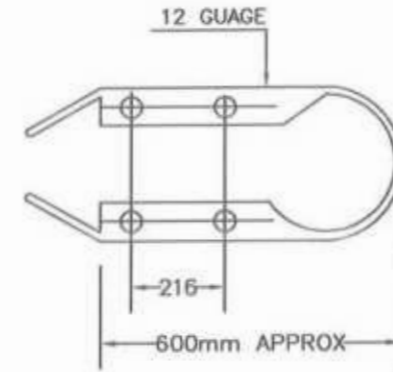
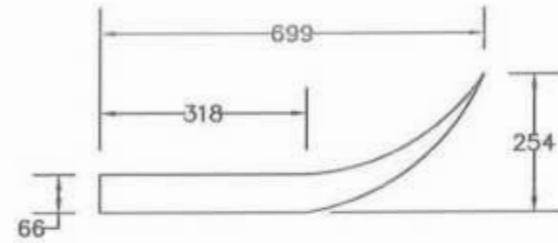
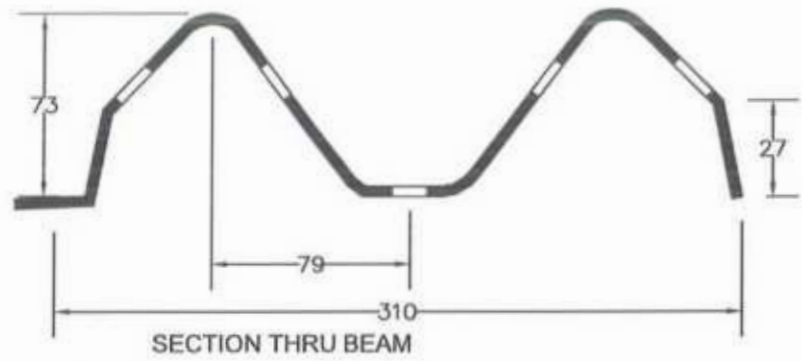
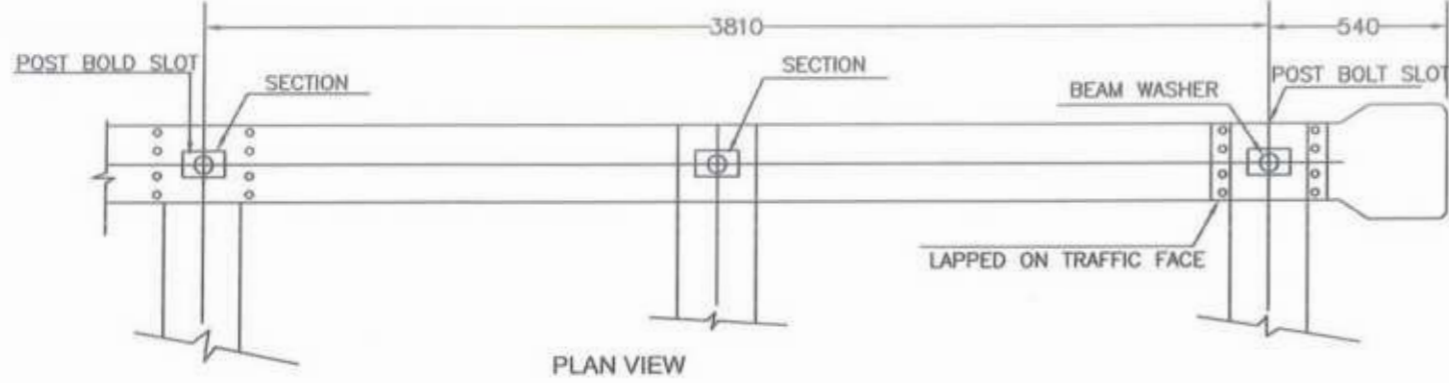
TABLE-2  
REINFORCEMENT SCHEDULE

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 WHILE LETTERING COLOUR WILL BE BLACK.
7. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.



<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	TANZEEL			KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON	N.T.S	KM POST DETAILS
		a			DRAWN	IMRAN TARIQ					DATE:	
		b			CHECKED	SHAIKZAD DURRANI					AUG. 2024	
c			APPROVED	AGEEL YOUNIS	DWG NO: CEC/RRDP/RRDM-CHT-2/ KMP 09							



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

*EDGE OF PAVEMENT*



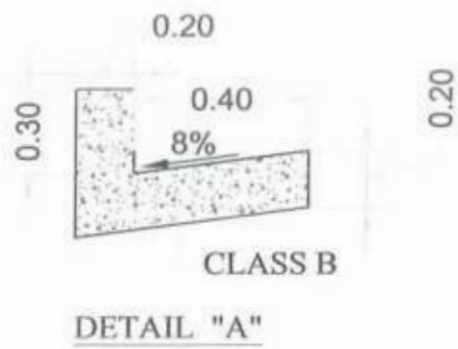
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	DESIGN CONSULTANT: (MIN - JV - CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
	<p>MINCONSULT SDN BHD (COMPANY NO. 59835-P)</p>	0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ACCESS ROAD	N.T.S	GUARD RAIL DETAILS DWG NO: CEC/HRWP/RRDN-CHT-2 GR-10
	<p>J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	a			DRAWN IMRAN TARIQ			DATE:	
		b			CHECKED SHAHZAD DURRANI			AUG, 2024	
		c			APPROVED AGEEL YOUSUF				



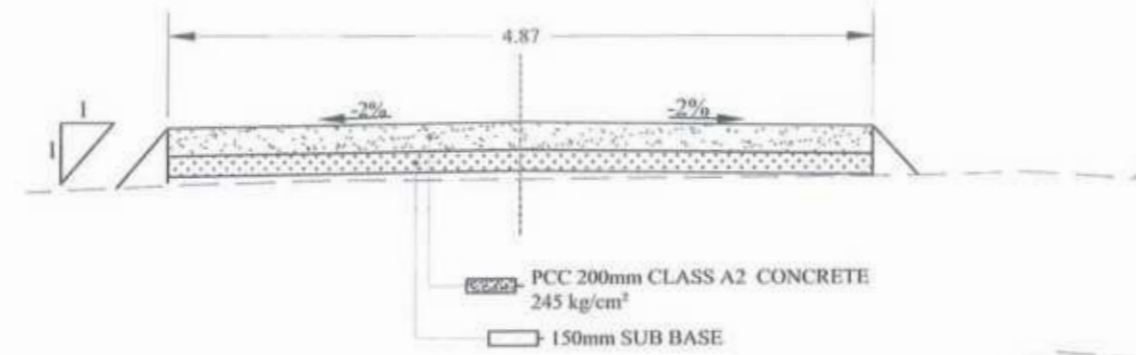
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar

# TYPICAL CROSS SECTIONS

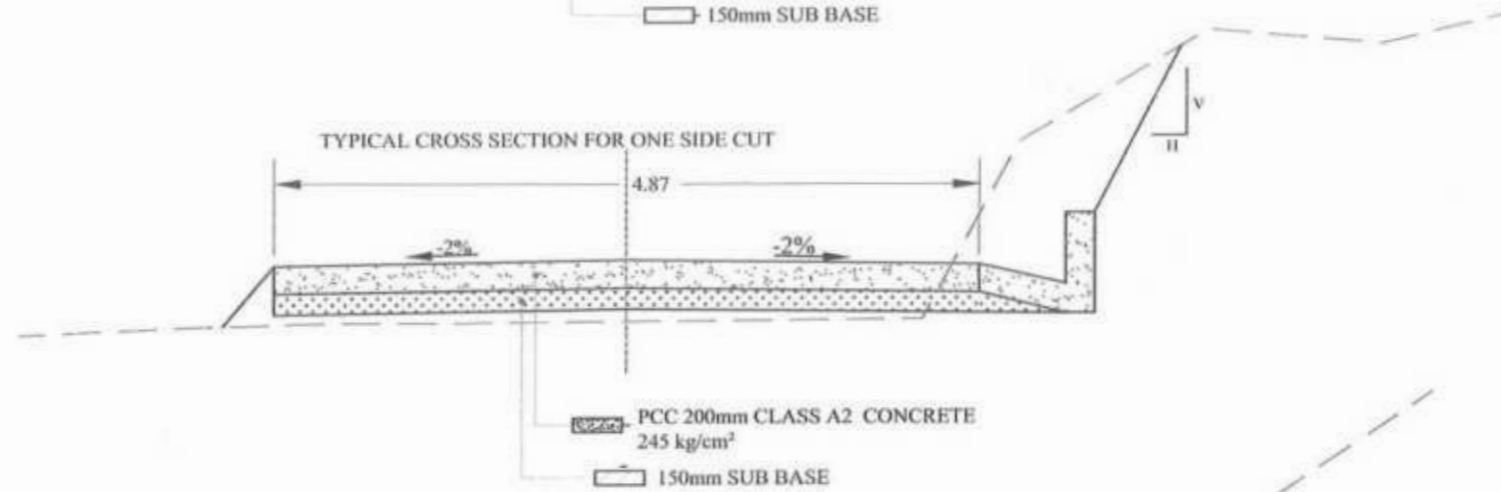




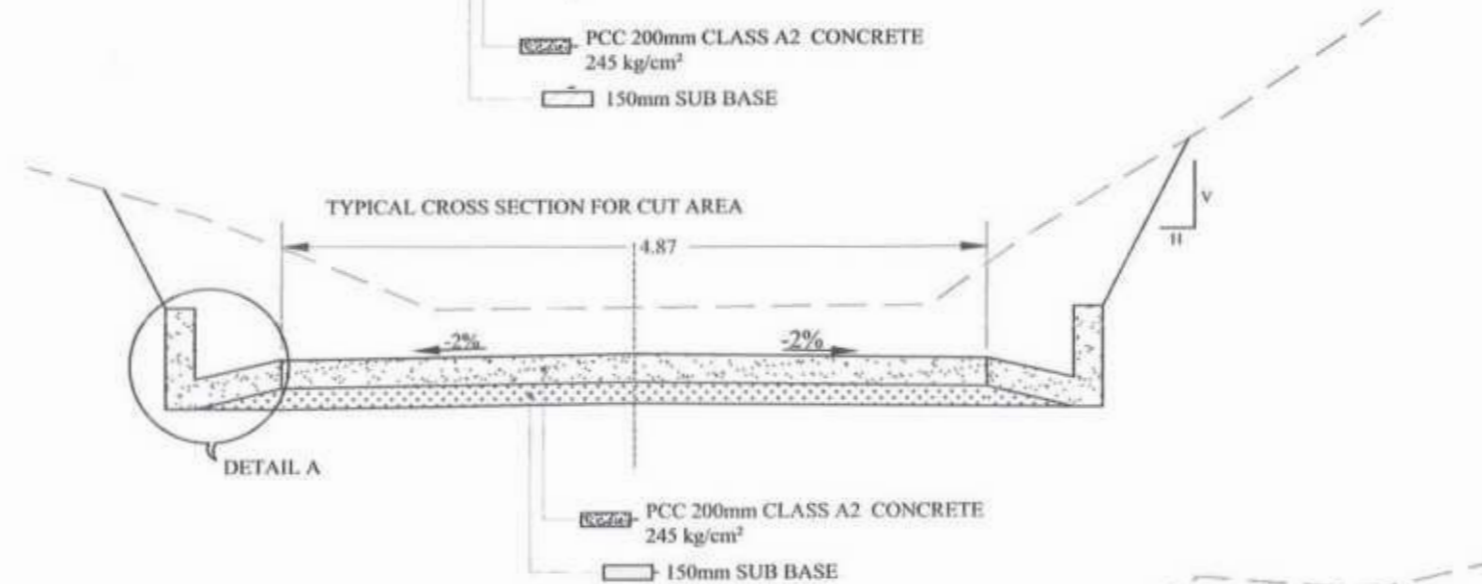
TYPICAL CROSS SECTION FOR OPEN AREA



TYPICAL CROSS SECTION FOR ONE SIDE CUT

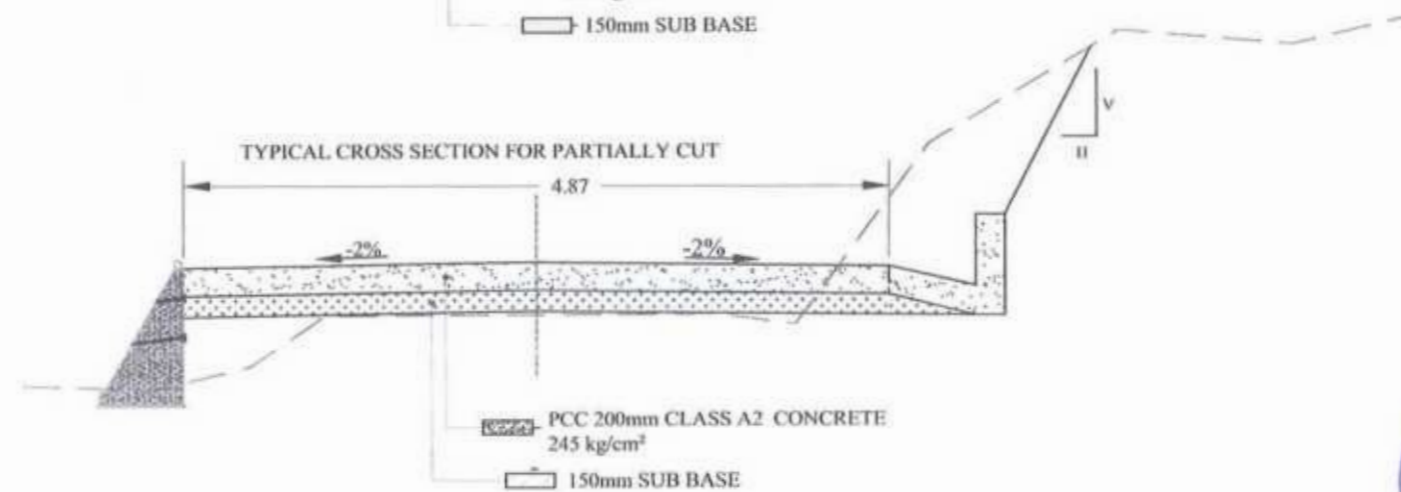


TYPICAL CROSS SECTION FOR CUT AREA



DETAIL A

TYPICAL CROSS SECTION FOR PARTIALLY CUT



S.NO	DESCRIPTION	SIDE SLOPE DETAIL (V : H)
1	HARD & MEDIUM ROCK	1:0.25
2	COMMON & SOFT	1: 0.5

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



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES	PROJECT:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINS CONSULTANT  J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS	DESIGNED: REHMAT	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N-CHT-2 OSAIC TO ORSOON  ACCESS ROAD	TYPICAL CROSS SECTIONS  DWGNO. CEC/KP-RRDP/HWN-CHT-2/TCS-01
		1			DRAWN: INAM ULLAH			
		2			CHECKED: S-DURRANI			
		3			APPROVED: AQEEL YOUNIS			
							NTS: DATE: AUG 2024	

# CENTER LINE DATA

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





CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
1	0+000	3,938,358.63	752,980.79
2	0+025	3,938,365.31	752,956.70
3	0+050	3,938,370.19	752,932.25
4	0+075	3,938,367.39	752,907.52
5	0+100	3,938,356.80	752,884.99
6	0+125	3,938,339.54	752,867.06
7	0+150	3,938,319.41	752,852.24
8	0+175	3,938,300.82	752,835.56
9	0+200	3,938,284.84	752,816.36
10	0+225	3,938,271.41	752,795.28
11	0+250	3,938,257.77	752,774.35
12	0+275	3,938,239.18	752,757.75
13	0+300	3,938,219.21	752,742.72
14	0+325	3,938,199.799	752,731.26
15	0+350	3,938,174.75	752,719.88
16	0+375	3,938,152.91	752,707.72
17	0+400	3,938,134.48	752,691.12
18	0+425	3,938,120.58	752,670.50
19	0+450	3,938,111.21	752,647.42
20	0+475	3,938,105.08	752,623.18
21	0+500	3,938,098.95	752,598.94
22	0+525	3,938,092.64	752,574.75
23	0+550	3,938,086.23	752,550.59
24	0+575	3,938,079.81	752,526.43
25	0+600	3,938,073.40	752,502.26
26	0+625	3,938,067.38	752,478.06
27	0+650	3,938,061.89	752,453.61
28	0+675	3,938,056.36	752,429.23
29	0+700	3,938,050.52	752,404.92
30	0+725	3,938,044.67	752,380.62
31	0+750	3,938,038.93	752,356.28
32	0+775	3,938,033.40	752,331.90
33	0+800	3,938,027.38	752,307.64
34	0+825	3,938,021.31	752,283.39
35	0+850	3,938,015.23	752,259.14
36	0+875	3,938,009.27	752,234.86
37	0+900	3,938,003.44	752,210.55
38	0+925	3,937,997.62	752,186.24
39	0+950	3,937,991.80	752,161.92
40	0+975	3,937,985.98	752,137.61
41	1+000	3,937,979.68	752,113.43
42	1+025	3,937,969.20	752,090.78
43	1+050	3,937,956.80	752,069.07
44	1+075	3,937,944.40	752,047.36
45	1+100	3,937,932.04	752,025.65
46	1+125	3,937,919.11	752,004.24
47	1+150	3,937,905.65	751,983.17
48	1+175	3,937,892.18	751,962.11
49	1+200	3,937,878.72	751,941.05
50	1+225	3,937,865.55	751,919.80
51	1+250	3,937,853.41	751,897.97
52	1+275	3,937,838.79	751,877.69
53	1+300	3,937,824.15	751,857.43
54	1+325	3,937,809.49	751,837.18
55	1+350	3,937,794.82	751,816.93

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
56	1+375	3,937,780.16	751,796.68
57	1+400	3,937,765.49	751,776.44
58	1+425	3,937,750.82	751,756.19
59	1+450	3,937,736.04	751,736.03
60	1+475	3,937,721.19	751,715.92
61	1+500	3,937,706.34	751,695.80
62	1+525	3,937,691.62	751,675.60
63	1+550	3,937,675.85	751,656.27
64	1+575	3,937,658.15	751,638.62
65	1+600	3,937,640.16	751,621.26
66	1+625	3,937,621.05	751,605.15
67	1+650	3,937,602.30	751,588.62
68	1+675	3,937,584.47	751,571.10
69	1+700	3,937,566.94	751,553.30
70	1+725	3,937,545.41	751,540.62
71	1+750	3,937,523.26	751,529.04
72	1+775	3,937,501.43	751,516.90
73	1+800	3,937,480.60	751,503.07
74	1+825	3,937,459.78	751,489.25
75	1+850	3,937,438.93	751,475.45
76	1+875	3,937,418.07	751,461.66
77	1+900	3,937,410.20	751,440.65
78	1+925	3,937,425.58	751,421.97
79	1+950	3,937,407.50	751,409.66
80	1+975	3,937,383.67	751,403.35
81	2+000	3,937,361.47	751,391.85
82	2+025	3,937,337.98	751,383.31
83	2+050	3,937,314.10	751,375.96
84	2+075	3,937,290.30	751,368.40
85	2+100	3,937,271.84	751,351.99
86	2+125	3,937,260.16	751,329.90
87	2+150	3,937,248.88	751,307.59
88	2+175	3,937,241.25	751,283.83
89	2+200	3,937,239.33	751,259.20
90	2+225	3,937,237.45	751,235.13
91	2+250	3,937,213.40	751,231.22
92	2+275	3,937,188.70	751,227.53
93	2+300	3,937,164.27	751,222.32
94	2+325	3,937,144.09	751,207.82
95	2+350	3,937,124.59	751,192.18
96	2+375	3,937,104.73	751,176.99
97	2+400	3,937,084.60	751,162.19
98	2+425	3,937,062.93	751,149.74
99	2+450	3,937,040.20	751,139.33
100	2+475	3,937,017.43	751,129.03
101	2+500	3,936,994.66	751,118.69
102	2+525	3,936,971.97	751,108.21
103	2+550	3,936,948.65	751,099.21
104	2+575	3,936,926.61	751,087.61
105	2+600	3,936,909.35	751,069.68
106	2+625	3,936,898.35	751,047.31
107	2+650	3,936,889.21	751,024.04
108	2+675	3,936,880.43	751,000.64
109	2+700	3,936,874.26	750,976.43
110	2+725	3,936,869.27	750,951.94

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
111	2+750	3,936,855.963	750,929.27
112	2+775	3,936,844.23	750,909.11
113	2+800	3,936,823.93	750,895.19
114	2+825	3,936,801.11	750,884.98
115	2+850	3,936,778.28	750,874.78
116	2+875	3,936,755.55	750,864.38
117	2+900	3,936,732.92	750,853.75
118	2+925	3,936,710.36	750,842.99
119	2+950	3,936,688.31	750,831.20
120	2+975	3,936,666.28	750,819.39
121	3+000	3,936,646.48	750,804.26
122	3+025	3,936,629.88	750,785.57
123	3+050	3,936,613.37	750,766.80
124	3+075	3,936,596.91	750,747.98
125	3+100	3,936,583.64	750,726.86
126	3+125	3,936,573.62	750,703.96
127	3+150	3,936,562.97	750,681.38
128	3+175	3,936,545.50	750,663.75
129	3+200	3,936,522.99	750,653.07
130	3+225	3,936,498.28	750,649.37
131	3+250	3,936,474.85	750,641.09
132	3+275	3,936,454.36	750,626.79
133	3+300	3,936,430.91	750,618.92
134	3+325	3,936,405.96	750,620.11
135	3+350	3,936,381.82	750,615.62
136	3+375	3,936,361.52	750,601.03
137	3+400	3,936,341.25	750,586.41
138	3+425	3,936,319.25	750,574.59
139	3+450	3,936,297.38	750,562.55
140	3+475	3,936,276.44	750,548.89
141	3+500	3,936,255.50	750,535.23
142	3+525	3,936,233.41	750,523.73
143	3+550	3,936,208.90	750,518.96
144	3+575	3,936,184.30	750,514.59
145	3+600	3,936,161.06	750,505.43
146	3+625	3,936,138.02	750,495.72
147	3+650	3,936,114.42	750,487.55
148	3+675	3,936,090.09	750,482.37
149	3+700	3,936,066.37	750,489.89
150	3+725	3,936,041.76	750,488.43
151	3+750	3,936,017.37	750,482.92
152	3+775	3,935,992.99	750,477.42
153	3+800	3,935,968.61	750,471.85
154	3+825	3,935,944.28	750,466.10
155	3+850	3,935,919.96	750,460.34
156	3+875	3,935,895.53	750,454.562
157	3+900	3,935,871.04	750,450.02
158	3+925	3,935,846.54	750,445.04
159	3+950	3,935,822.17	750,439.48
160	3+975	3,935,798.85	750,430.54
161	4+000	3,935,776.97	750,418.48
162	4+025	3,935,755.37	750,405.90
163	4+050	3,935,734.49	750,392.13
164	4+075	3,935,713.67	750,378.30
165	4+100	3,935,692.78	750,364.57

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
166	4+125	3,935,671.76	750,351.04
167	4+150	3,935,650.74	750,337.51
168	4+175	3,935,629.69	750,324.01
169	4+200	3,935,608.09	750,311.43
170	4+225	3,935,586.46	750,298.90
171	4+250	3,935,564.82	750,286.38
172	4+275	3,935,543.58	750,273.21
173	4+300	3,935,523.37	750,258.50
174	4+325	3,935,503.17	750,243.76
175	4+350	3,935,482.97	750,229.03
176	4+375	3,935,462.40	750,214.85
177	4+400	3,935,440.21	750,203.37
178	4+425	3,935,416.68	750,194.98
179	4+450	3,935,392.60	750,188.26
180	4+475	3,935,368.52	750,181.54
181	4+500	3,935,344.24	750,175.61
182	4+525	3,935,319.84	750,170.17
183	4+550	3,935,296.45	750,161.52
184	4+575	3,935,275.77	750,147.58
185	4+600	3,935,257.84	750,130.15
186	4+625	3,935,239.05	750,113.72
187	4+650	3,935,219.40	750,098.26
188	4+675	3,935,199.75	750,082.81
189	4+700	3,935,182.70	750,064.70
190	4+725	3,935,167.67	750,044.71
191	4+750	3,935,152.65	750,024.73
192	4+775	3,935,131.75	750,013.68
193	4+800	3,935,106.76	750,013.20
194	4+825	3,935,081.84	750,014.97
195	4+850	3,935,057.27	750,019.54
196	4+875	3,935,032.92	750,025.14
197	4+900	3,935,011.06	750,037.02
198	4+925	3,934,991.83	750,053.00
199	4+950	3,934,972.75	750,069.14
200	4+975	3,934,958.52	750,089.59
201	5+000	3,934,935.74	750,095.47
202	5+025	3,934,912.37	750,086.83
203	5+050	3,934,889.76	750,076.30
204	5+075	3,934,865.76	750,069.28
205	5+100	3,934,841.16	750,065.10
206	5+125	3,934,816.79	750,059.65
207	5+150	3,934,792.64	750,053.20
208	5+175	3,934,769.62	750,043.53
209	5+200	3,934,748.52	750,030.17
210	5+225	3,934,729.63	750,013.83
211	5+250	3,934,713.59	749,994.69
212	5+275	3,934,700.81	749,973.24
213	5+300	3,934,691.27	749,950.14
214	5+325	3,934,686.79	749,925.65
215	5+350	3,934,683.35	749,900.91
216	5+375	3,934,678.73	749,876.35
217	5+400	3,934,678.57	749,851.39
218	5+425	3,934,683.58	749,826.95
219	5+450	3,934,692.33	749,803.54

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
276	6+875	3,934,041.54	749,003.19
277	6+900	3,934,055.19	748,982.24
278	6+925	3,934,068.68	748,961.20
279	6+950	3,934,081.91	748,939.98
280	6+975	3,934,095.14	748,918.77
281	7+000	3,934,100.40	748,894.86
282	7+025	3,934,106.60	748,870.72
283	7+050	3,934,108.46	748,846.49
284	7+075	3,934,102.95	748,822.12
285	7+100	3,934,114.63	748,801.62
286	7+125	3,934,137.60	748,791.75
287	7+150	3,934,159.70	748,780.11
288	7+175	3,934,157.26	748,765.03
289	7+200	3,934,135.55	748,777.41
290	7+225	3,934,113.31	748,788.84
291	7+250	3,934,088.96	748,792.96
292	7+275	3,934,064.63	748,787.30
293	7+300	3,934,040.44	748,790.96
294	7+325	3,934,023.47	748,808.90
295	7+350	3,933,999.53	748,812.72
296	7+375	3,933,977.85	748,800.34
297	7+400	3,933,957.89	748,785.37
298	7+425	3,933,939.38	748,768.57
299	7+450	3,933,920.87	748,751.77
300	7+475	3,933,902.88	748,734.43
301	7+500	3,933,885.95	748,716.02
302	7+525	3,933,870.99	748,696.08
303	7+550	3,933,858.14	748,674.64
304	7+575	3,933,841.77	748,655.86
305	7+600	3,933,823.66	748,638.62
306	7+625	3,933,806.75	748,620.23
307	7+650	3,933,791.86	748,600.16
308	7+675	3,933,777.20	748,579.91
309	7+700	3,933,762.16	748,559.94
310	7+725	3,933,744.98	748,541.80
311	7+750	3,933,726.16	748,525.36
312	7+775	3,933,708.72	748,507.45
313	7+800	3,933,691.67	748,489.17
314	7+825	3,933,672.76	748,473.01
315	7+850	3,933,649.83	748,463.10
316	7+875	3,933,634.96	748,443.49
317	7+900	3,933,622.45	748,421.84
318	7+925	3,933,605.28	748,403.86
319	7+950	3,933,587.94	748,386.16
320	7+975	3,933,574.37	748,365.17
321	8+000	3,933,560.79	748,344.17
322	8+025	3,933,547.22	748,323.18
323	8+050	3,933,532.43	748,303.10
324	8+075	3,933,512.18	748,288.64
325	8+100	3,933,498.38	748,271.66
326	8+125	3,933,496.93	748,246.94
327	8+150	3,933,499.50	748,222.54
328	8+175	3,933,476.12	748,222.36
329	8+200	3,933,452.35	748,229.70
330	8+225	3,933,430.30	748,227.24

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
331	8+250	3,933,412.17	748,210.23
332	8+275	3,933,395.09	748,192.86
333	8+300	3,933,394.51	748,167.95
334	8+325	3,933,381.14	748,148.33
335	8+350	3,933,362.31	748,132.08
336	8+375	3,933,346.89	748,112.40
337	8+400	3,933,327.44	748,097.81
338	8+425	3,933,303.08	748,101.03
339	8+450	3,933,284.53	748,117.69
340	8+475	3,933,263.60	748,129.51
341	8+500	3,933,241.12	74,811,919
342	8+525	3,933,220.60	748,104.73
343	8+550	3,933,200.24	748,090.22
344	8+575	3,933,179.99	748,075.56
345	8+600	3,933,159.74	748,060.90
346	8+625	3,933,139.49	748,046.24
347	8+650	3,933,120.76	748,029.82
348	8+675	3,933,108.08	748,008.40
349	8+700	3,933,103.70	747,983.81
350	8+725	3,933,111.85	747,960.52
351	8+750	3,933,111.76	747,938.73
352	8+775	3,933,088.36	747,944.88
353	8+800	3,933,070.29	747,961.89
354	8+825	3,933,046.16	747,967.34
355	8+850	3,933,028.79	747,955.14
356	8+875	3,933,011.83	747,938.82
357	8+900	3,932,989.13	747,928.33
358	8+925	3,932,965.04	747,923.92
359	8+950	3,932,940.09	747,925.60
360	8+975	3,932,915.15	747,927.28
361	9+000	3,932,891.87	747,920.27
362	9+025	3,932,867.81	747,926.54
363	9+050	3,932,843.80	747,920.61
364	9+075	3,932,820.87	747,910.63
365	9+100	3,932,799.80	747,897.33
366	9+125	3,932,778.71	747,884.13
367	9+150	3,932,755.42	747,875.03
368	9+175	3,932,733.49	747,863.68
369	9+200	3,932,724.09	747,840.86
370	9+225	3,932,701.33	747,831.24
371	9+250	3,932,677.37	747,824.20
372	9+275	3,932,655.32	747,817.18
373	9+300	3,932,653.36	747,794.52
374	9+325	3,932,644.94	747,772.73
375	9+350	3,932,633.15	747,754.99
376	9+375	3,932,608.39	747,758.47
377	9+400	3,932,595.09	747,739.48
378	9+425	3,932,577.58	747,726.69
379	9+450	3,932,555.860	747,741.12
380	9+475	3,932,551.69	747,718.29
381	9+500	3,932,542.59	747,695.38
382	9+525	3,932,528.15	747,675.33
383	9+550	3,932,519.98	747,652.94
384	9+575	3,932,497.35	747,643.87
385	9+600	3,932,479.56	747,626.51

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
386	9+625	3,932,462.88	747,639.76
387	9+650	3,932,459.76	747,664.33
388	9+675	3,932,461.54	747,689.03
389	9+700	3,932,450.67	747,711.31
390	9+725	3,932,453.22	747,735.73
391	9+750	3,932,451.29	747,760.66
392	9+775	3,932,431.25	747,763.79
393	9+800	3,932,409.41	747,751.63
394	9+825	3,932,388.18	747,738.50
395	9+850	3,932,365.21	747,729.89
396	9+875	3,932,340.66	747,730.72
397	9+900	3,932,326.11	747,711.46
398	9+925	3,932,325.64	747,686.56
399	9+950	3,932,316.65	747,663.52
400	9+975	3,932,307.74	747,641.52
401	10+000	3,932,313.99	747,617.55
402	10+025	3,932,323.40	747,594.56
403	10+050	3,932,328.32	747,570.50
404	10+075	3,932,313.39	747,554.84
405	10+100	3,932,317.50	747,530.79
406	10+125	3,932,307.61	747,509.23
407	10+150	3,932,284.48	747,516.87
408	10+175	3,932,260.98	747,523.46
409	10+200	3,932,248.15	747,503.79
410	10+225	3,932,249.25	747,480.65
411	10+250	3,932,244.68	747,458.29
412	10+275	3,932,236.81	747,436.00
413	10+300	3,932,227.67	747,413.80
414	10+325	3,932,217.49	747,391.15
415	10+350	3,932,202.29	747,371.37
416	10+375	3,932,199.67	747,346.64
417	10+400	3,932,179.81	747,348.32
418	10+425	3,932,165.02	747,368.13
419	10+450	3,932,153.95	747,390.54
420	10+475	3,932,147.21	747,414.50
421	10+500	3,932,137.87	747,437.47
422	10+525	3,932,120.54	747,449.28
423	10+550	3,932,112.08	747,425.82
424	10+575	3,932,104.54	747,401.99
425	10+600	3,932,091.08	747,381.00
426	10+625	3,932,080.60	747,358.31
427	10+650	3,932,072.30	747,334.81
428	10+675	3,932,057.83	747,314.46
429	10+700	3,932,052.23	747,291.04
430	10+725	3,932,050.70	747,266.09
431	10+750	3,932,050.00	747,241.16
432	10+775	3,932,049.64	747,216.53
433	10+800	3,932,036.04	747,200.37
434	10+825	3,932,014.84	747,212.29
435	10+850	3,931,997.18	747,195.30
436	10+875	3,931,984.38	747,173.83
437	10+900	3,931,967.50	747,158.67
438	10+925	3,931,960.75	747,181.12
439	10+950	3,931,946.28	747,176.24
440	10+975	3,931,927.83	747,159.24

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
441	11+000	3,931,914.54	747,139.37
442	11+025	3,931,904.29	747,117.59
443	11+050	3,931,888.68	747,121.83
444	11+075	3,931,871.53	747,135.15
445	11+100	3,931,847.27	747,133.81
446	11+125	3,931,849.45	747,157.26
447	11+150	3,931,856.77	747,181.17
448	11+175	3,931,865.48	747,204.56
449	11+200	3,931,876.74	747,226.88
450	11+225	3,931,883.54	747,250.82
451	11+250	3,931,888.99	747,275.17
452	11+275	3,931,897.48	747,298.48
453	11+300	3,931,894.49	747,323.29
454	11+325	3,931,893.94	747,348.20
455	11+350	3,931,900.21	747,372.37
456	11+375	3,931,907.22	747,396.37
457	11+400	3,931,915.44	747,419.96
458	11+425	3,931,917.48	747,444.03
459	11+450	3,931,899.40	747,460.55
460	11+475	3,931,902.97	747,444.89
461	11+500	3,931,903.93	747,422.96
462	11+525	3,931,893.47	747,400.25
463	11+550	3,931,885.22	747,376.74
464	11+575	3,931,879.57	747,352.39
465	11+600	3,931,870.89	747,329.15
466	11+625	3,931,860.71	747,306.86
467	11+650	3,931,856.13	747,282.35
468	11+675	3,931,850.90	747,257.99
469	11+700	3,931,846.02	747,233.66
470	11+725	3,931,830.81	747,213.83
471	11+750	3,931,819.30	747,191.74
472	11+775	3,931,809.64	747,168.68
473	11+800	3,931,795.50	747,148.21
474	11+825	3,931,780.47	747,128.25
475	11+850	3,931,762.52	747,121.70
476	11+875	3,931,777.11	747,139.78
477	11+900	3,931,790.55	747,160.86
478	11+925	3,931,801.25	747,183.44
479	11+950	3,931,805.62	747,207.75
480	11+975	3,931,818.38	747,228.59
481	12+000	3,931,819.24	747,252.79
482	12+025	3,931,825.56	747,276.97
483	12+050	3,931,827.45	747,301.88
484	12+075	3,931,829.84	747,326.66
485	12+100	3,931,839.74	747,349.49
486	12+125	3,931,852.53	747,370.06
487	12+150	3,931,835.45	747,386.35
488	12+175	3,931,818.76	747,385.44
489	12+200	3,931,819.11	747,361.01
490	12+225	3,931,813.60	747,336.63
491	12+250	3,	

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
551	13+750	3,931,653.37	747,234.28
552	13+775	3,931,635.77	747,219.21
553	13+800	3,931,611.24	747,214.39
554	13+825	3,931,590.22	747,201.52
555	13+850	3,931,576.72	747,181.14
556	13+875	3,931,573.71	747,156.50
557	13+900	3,931,563.49	747,133.79
558	13+925	3,931,547.18	747,114.87
559	13+950	3,931,536.05	747,092.77
560	13+975	3,931,518.60	747,074.96
561	14+000	3,931,508.33	747,053.74
562	14+025	3,931,507.74	747,029.62
563	14+050	3,931,498.52	747,043.66
564	14+075	3,931,500.74	747,068.45
565	14+100	3,931,514.86	747,088.73
566	14+125	3,931,526.61	747,110.67
567	14+150	3,931,537.96	747,132.90
568	14+175	3,931,551.37	747,154.00
569	14+200	3,931,552.16	747,177.89
570	14+225	3,931,554.80	747,200.42
571	14+250	3,931,573.35	747,217.17
572	14+275	3,931,592.98	747,232.57
573	14+300	3,931,596.49	747,248.21
574	14+325	3,931,571.65	747,251.09
575	14+350	3,931,551.05	747,262.75
576	14+375	3,931,536.88	747,283.35
577	14+400	3,931,527.41	747,306.26
578	14+425	3,931,540.53	747,325.35
579	14+450	3,931,539.46	747,350.28
580	14+475	3,931,545.05	747,374.23
581	14+500	3,931,546.74	747,399.17
582	14+525	3,931,550.68	747,423.86
583	14+550	3,931,549.98	747,448.62
584	14+575	3,931,549.97	747,473.32
585	14+600	3,931,541.35	747,485.75
586	14+625	3,931,537.63	747,461.02
587	14+650	3,931,529.92	747,437.49
588	14+675	3,931,527.91	747,412.80
589	14+700	3,931,521.55	747,388.62
590	14+725	3,931,515.17	747,364.45
591	14+750	3,931,505.03	747,341.97
592	14+775	3,931,487.80	747,323.86
593	14+800	3,931,480.54	747,303.07
594	14+825	3,931,495.95	747,283.43
595	14+850	3,931,509.79	747,264.55
596	14+875	3,931,521.61	747,243.98
597	14+900	3,931,515.22	747,221.52
598	14+925	3,931,502.53	747,199.98
599	14+950	3,931,495.55	747,176.43
600	14+975	3,931,485.41	747,153.67
601	15+000	3,931,476.88	747,158.19
602	15+025	3,931,485.98	747,180.03
603	15+050	3,931,486.69	747,203.96
604	15+075	3,931,499.11	747,225.54
605	15+100	3,931,485.92	747,244.63

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
606	15+125	3,931,469.11	747,262.31
607	15+150	3,931,455.81	747,262.32
608	15+175	3,931,471.79	747,243.20
609	15+200	3,931,479.98	747,221.44
610	15+225	3,931,462.52	747,203.74
611	15+250	3,931,456.11	747,180.14
612	15+275	3,931,448.74	747,156.73
613	15+300	3,931,433.22	747,137.49
614	15+325	3,931,423.11	747,120.16
615	15+350	3,931,424.41	747,114.294
616	15+375	3,931,437.60	747,163.16
617	15+400	3,931,441.84	747,187.71
618	15+425	3,931,444.74	747,211.94
619	15+450	3,931,438.36	747,229.49
620	15+475	3,931,432.17	747,206.11
621	15+500	3,931,425.53	747,182.293
622	15+525	3,931,415.79	747,159.18
623	15+550	3,931,398.03	747,150.03
624	15+575	3,931,409.39	747,170.83
625	15+600	3,931,414.43	747,194.93
626	15+625	3,931,412.28	747,219.82
627	15+650	3,931,403.49	747,242.66
628	15+675	3,931,401.36	747,228.94
629	15+700	3,931,400.51	747,204.25
630	15+725	3,931,392.40	747,180.64
631	15+750	3,931,371.07	747,168.85
632	15+775	3,931,349.21	747,156.93
633	15+800	3,931,338.14	747,135.34
634	15+825	3,931,320.68	747,132.13
635	15+850	3,931,333.54	747,152.58
636	15+875	3,931,347.91	747,171.82
637	15+900	3,931,366.86	747,188.12
638	15+925	3,931,375.08	747,210.51
639	15+950	3,931,358.01	747,226.68
640	15+975	3,931,338.35	747,240.84
641	16+000	3,931,321.84	747,259.14
642	16+025	3,931,324.76	747,282.35
643	16+050	3,931,334.35	747,305.40
644	16+075	3,931,337.39	747,329.99
645	16+100	3,931,336.55	747,354.94
646	16+125	3,931,337.18	747,379.32
647	16+150	3,931,327.01	747,402.16
648	16+175	3,931,316.84	747,425.504
649	16+200	3,931,310.75	747,448.99
650	16+225	3,931,313.66	747,473.75
651	16+250	3,931,305.72	747,497.36
652	16+275	3,931,314.47	747,519.82
653	16+300	3,931,313.83	747,542.95
654	16+325	3,931,303.08	747,565.26
655	16+350	3,931,301.05	747,548.21
656	16+375	3,931,305.57	747,524.75
657	16+400	3,931,292.70	747,503.48
658	16+425	3,931,297.68	747,479.21
659	16+450	3,931,291.46	747,455.36
660	16+475	3,931,289.34	747,430.87

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
661	16+500	3,931,286.90	747,406.38
662	16+525	3,931,291.71	747,381.85
663	16+550	3,931,287.19	747,357.46
664	16+575	3,931,281.98	747,333.03
665	16+600	3,931,276.67	747,308.63
666	16+625	3,931,265.38	747,286.36
667	16+650	3,931,268.38	747,263.12
668	16+675	3,931,274.88	747,239.36
669	16+700	3,931,287.83	747,218.53
670	16+725	3,931,273.91	747,225.97
671	16+750	3,931,259.55	747,246.44
672	16+775	3,931,246.99	747,267.19
673	16+800	3,931,239.80	747,287.77
674	16+825	3,931,249.00	747,310.00
675	16+850	3,931,247.30	747,334.79
676	16+875	3,931,247.64	747,358.92
677	16+900	3,931,248.68	747,383.62
678	16+925	3,931,242.97	747,407.85
679	16+950	3,931,238.81	747,432.50
680	16+975	3,931,239.41	747,457.44
681	17+000	3,931,232.44	747,476.28
682	17+025	3,931,229.22	747,452.47
683	17+050	3,931,226.76	747,427.59
684	17+075	3,931,224.92	747,402.66
685	17+100	3,931,226.98	747,377.85
686	17+125	3,931,219.66	747,354.50
687	17+150	3,931,220.91	747,330.50
688	17+175	3,931,211.91	747,307.65
689	17+200	3,931,199.27	747,286.09
690	17+225	3,931,198.57	747,262.36
691	17+250	3,931,211.77	747,241.71
692	17+275	3,931,193.92	747,222.689
693	17+300	3,931,172.10	747,213.82
694	17+325	3,931,161.80	747,194.35
695	17+350	3,931,171.87	747,171.217
696	17+375	3,931,162.10	747,149.26
697	17+400	3,931,147.41	747,129.24
698	17+425	3,931,131.04	747,110.48
699	17+450	3,931,125.95	747,086.16
700	17+475	3,931,113.32	747,075.24
701	17+500	3,931,117.95	747,099.55
702	17+525	3,931,126.23	747,122.91
703	17+550	3,931,139.93	747,143.82
704	17+575	3,931,153.48	747,164.82
705	17+600	3,931,146.29	747,187.16
706	17+625	3,931,138.69	747,209.94
707	17+650	3,931,151.85	747,230.19
708	17+675	3,931,164.25	747,247.18
709	17+700	3,931,144.28	747,261.86
710	17+725	3,931,150.44	747,284.39
711	17+750	3,931,153.51	747,309.02
712	17+775	3,931,160.22	747,331.92
713	17+800	3,931,151.31	747,328.44
714	17+825	3,931,142.44	747,305.86
715	17+850	3,931,132.14	747,283.55

CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
716	17+875	3,931,127.24	747,260.17
717	17+900	3,931,116.54	747,238.47
718	17+925	3,931,111.30	747,214.24
719	17+950	3,931,102.13	747,192.99
720	17+975	3,931,102.90	747,170.16
721	18+000	3,931,090.67	747,148.55
722	18+025	3,931,077.94	747,127.92
723	18+050	3,931,069.13	747,105.17
724	18+075	3,931,058.82	747,085.12
725	18+100	3,931,045.72	747,064.15
726	18+125	3,931,029.15	747,045.45
727	18+150	3,931,011.67	747,027.57
728	18+175	3,931,013.56	747,005.27
729	18+200	3,930,987.93	746,986.36
730	18+225	3,930,972.25	746,966.97
731	18+250	3,930,958.10	746,946.41
732	18+275	3,930,943.45	746,930.87
733	18+300	3,930,950.66	746,951.88
734	18+325	3,930,961.31	746,974.43
735	18+350	3,930,970.17	746,997.54
736	18+375	3,930,975.65	747,020.89
737	18+400	3,930,989.38	747,041.60
738	18+425	3,931,000.92	747,063.26
739	18+450	3,931,003.85	747,081.78
740	18+475	3,930,990.47	747,061.49
741	18+500	3,930,972.09	747,044.55
742	18+525	3,930,955.78	747,025.77
743	18+550	3,930,944.37	747,003.69
744	18+575	3,930,938.67	746,980.41
745	18+600	3,930,918.44	746,966.59
746	18+625	3,930,899.26	746,952.96
747	18+650	3,930,889.14	746,933.41
748	18+675	3,930,884.46	746,910.83
749	18+700	3,930,872.21	746,889.95
750	18+725	3,930,876.68	746,865.74
751	18+750	3,930,880.35	746,841.24
752	18+775	3,930,889.42	746,819.93
753	18+800	3,930,908.17	746,803.40
754	18+825	3,930,919.10	746,781.24
755	18+850	3,930,942.77	746,775.68
756	18+875	3,930,953.59	746,753.46
757	18+900	3,930,969.69	746,735.07
758	18+925	3,930,980.73	746,712.83
759	18+950	3,930,981.60	746,688.20
760	18+975	3,930,973.43	746,665.15
761	19+000	3,930,982.59	746,642.24
762	19+025	3,930,980.69	746,617.45
763	19+050	3,930,976.60	746,592.82
764</			






CENTER LINE CO-ORDINATES			
S.No	Station	Northing	Easting
826	20+625	3,930,726.80	745,330.97
827	20+650	3,930,723.36	745,308.90
828	20+675	3,930,716.60	745,285.93
829	20+700	3,930,726.72	745,265.22
830	20+725	3,930,745.69	745,249.39
831	20+750	3,930,739.44	745,226.07
832	20+775	3,930,723.07	745,207.36
833	20+800	3,930,717.32	745,183.53
834	20+825	3,930,731.24	745,164.55
835	20+850	3,930,755.15	745,170.34
836	20+875	3,930,777.08	745,182.04
837	20+900	3,930,798.91	745,192.90
838	20+925	3,930,821.195	745,186.30
839	20+950	3,930,808.57	745,165.64
840	20+975	3,930,803.60	745,141.35
841	21+000	3,930,782.48	745,128.09
842	21+025	3,930,761.82	745,114.02
843	21+050	3,930,742.49	745,098.31
844	21+075	3,930,727.87	745,078.04
845	21+100	3,930,710.34	745,060.26
846	21+125	3,930,692.20	745,043.05
847	21+150	3,930,674.07	745,025.85
848	21+175	3,930,654.21	745,010.74
849	21+200	3,930,631.65	745,000.09
850	21+225	3,930,610.76	744,987.88
851	21+250	3,930,621.16	744,966.78
852	21+275	3,930,633.49	744,951.75
853	21+300	3,930,657.86	744,957.31
854	21+325	3,930,682.70	744,955.81
855	21+350	3,930,705.54	744,947.76
856	21+375	3,930,726.16	744,933.86
857	21+400	3,930,738.87	744,914.81
858	21+425	3,930,751.06	744,894.71
859	21+450	3,930,772.56	744,883.84
860	21+475	3,930,783.69	744,861.28
861	21+500	3,930,806.91	744,854.90
862	21+525	3,930,825.67	744,855.31
863	21+550	3,930,819.98	744,879.50
864	21+575	3,930,823.19	744,904.25
865	21+600	3,930,831.04	744,927.91
866	21+625	3,930,833.802	744,951.76
867	21+650	3,930,841.44	744,976.40
868	21+675	3,930,853.16	744,998.16
869	21+700	3,930,875.06	745,010.14
870	21+725	3,930,895.06	745,024.70
871	21+750	3,930,916.81	745,036.95
872	21+775	3,930,934.34	745,054.71
873	21+800	3,930,943.74	745,077.71
874	21+825	3,930,958.13	745,077.52
875	21+850	3,930,958.16	745,052.74
876	21+875	3,930,970.05	745,031.11
877	21+900	3,930,980.86	745,008.78
878	21+908.32	3,930,983.62	745,000.93



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



 <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>	0	AUG. 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL	<p><b>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)</b></p>	<p><b>N-CHITZ OSAIC TO ORSOON ROAD</b></p>	 <p>SCALE: N.T.S. DATE: AUG. 2024</p>	<p>SHEET CONTENT: CENTER LINE CO-ORDINATES</p>
		a			DRAWN	IMRAN TARIO				
		b			CHECKED	SHAHZAD DURRANI				
		c			APPROVED	AQEEL YOUNIS				
<p>ROAD NAME: ACCESS ROAD</p>										
<p>DWG NO: CEC/HRKP-RRDM-CHT-2/ CL-04</p>										

# HORIZONTAL CURVE DATA



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



Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	P Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C1	0+086.03	752897.8924	3938381.6324	0+033.19	752948.8050	3938367.5025	0+125.66	752866.6719	3938339.0058	76.46	92.47	52.837	69.2914	S70° 51' 55.41"W
C2	0+179.34	752834.9556	3938295.7022	0+145.42	752854.9969	3938323.0654	0+212.40	752806.0292	3938277.9919	172.06	66.98	33.917	22.3031	S47° 22' 16.47"W
C3	0+253.60	752770.8898	3938256.4777	0+239.86	752782.6029	3938263.6491	0+267.01	752762.5839	3938245.5399	73.00	27.15	13.734	21.3108	S47° 52' 02.75"W
C4	0+301.89	752741.4901	3938217.7619	0+296.62	752744.6815	3938221.9646	0+307.14	752739.1560	3938213.0291	55.00	10.52	5.277	10.9811	S31° 43' 53.36"W
C5	0+342.72	752723.4201	3938181.1210	0+337.74	752725.6205	3938185.5828	0+347.69	752721.0006	3938176.7742	200.00	9.95	4.975	2.8498	S27° 40' 32.92"W
C6	0+383.12	752703.7691	3938145.8161	0+377.25	752706.6219	3938150.9416	0+388.88	752699.4010	3938141.9009	35.00	11.62	5.866	19.0285	S38° 36' 53.82"W
C7	0+411.06	752682.8858	3938127.0979	0+406.18	752686.5133	3938130.3493	0+415.88	752678.5757	3938124.8278	39.40	9.69	4.871	14.0955	S55° 10' 36.93"W
C8	0+439.56	752657.6202	3938113.7907	0+430.29	752665.8230	3938118.1111	0+448.75	752648.6322	3938111.5177	77.85	18.46	9.271	13.5827	S69° 00' 57.66"W
C9	0+509.15	752590.0718	3938096.7076	0+502.48	752596.5417	3938098.3439	0+515.82	752583.6215	3938094.9953	1133.32	13.35	6.674	0.6748	S75° 28' 11.97"W
C10	0+614.21	752488.5305	3938069.7514	0+605.66	752496.7946	3938071.9453	0+622.76	752480.1888	3938067.8736	449.29	17.10	8.550	2.1805	S76° 13' 22.32"W
C11	0+672.73	752431.4382	3938056.8989	0+666.52	752437.4905	3938058.2614	0+678.93	752425.4066	3938055.4475	843.70	12.41	6.204	0.8426	S76° 53' 30.63"W
C12	0+742.19	752363.8985	3938040.6473	0+730.20	752375.5605	3938043.4534	0+754.19	752352.2000	3938037.9977	1789.92	23.99	11.995	0.7679	S76° 51' 16.22"W
C13	0+777.67	752329.3034	3938032.8119	0+774.13	752332.7500	3938033.5925	0+781.20	752325.8755	3938031.9532	310.85	7.07	3.534	1.3027	S76° 35' 13.65"W
C14	0+864.49	752245.0842	3938011.7134	0+856.21	752253.1118	3938013.7245	0+872.76	752237.0361	3938009.7862	1586.44	16.55	8.276	0.5978	S76° 14' 04.82"W
C15	1+005.89	752107.5676	3937978.7838	0+989.31	752123.6890	3937982.6442	1+022.25	752093.1728	3937970.5624	116.00	32.93	16.577	16.2657	S68° 24' 02.52"W
C16	1+113.59	752013.8542	3937925.2608	1+108.60	752018.1870	3937927.7355	1+118.58	752009.6501	3937922.5732	200.00	9.98	4.990	2.8583	S58° 50' 19.28"W
C17	1+221.63	751922.8217	3937867.0645	1+214.92	751928.4758	3937870.6791	1+228.33	751916.8567	3937863.9896	144.45	13.41	6.711	5.3199	S60° 04' 10.13"W
C18	1+245.10	751901.9523	3937856.3065	1+238.17	751908.1162	3937859.4840	1+252.01	751896.3305	3937852.2462	92.57	13.84	6.935	8.5685	S58° 26' 42.66"W
C19	1+307.60	751851.2626	3937819.6955	1+305.36	751853.0800	3937821.0081	1+309.85	751849.4471	3937818.3802	3164.55	4.48	2.242	0.0812	S54° 07' 13.26"W
C20	1+434.41	751748.5706	3937745.3035	1+427.06	751754.5257	3937749.6175	1+441.76	751742.6549	3937740.9358	1622.33	14.71	7.353	0.5194	S53° 49' 12.21"W
C21	1+520.50	751679.3150	3937694.1699	1+517.03	751682.1077	3937696.2318	1+523.97	751676.4525	3937692.2062	200.00	6.94	3.471	1.9887	S54° 33' 17.00"W
C22	1+538.85	751664.1788	3937683.7862	1+529.23	751677.1166	3937689.2316	1+548.42	751657.3823	3937676.9695	103.43	19.20	9.626	10.6339	S50° 13' 55.77"W
C23	1+595.82	751623.9146	3937643.4026	1+587.26	751629.9610	3937649.4670	1+604.38	751618.4087	3937636.8436	200.00	17.12	8.564	4.9036	S42° 27' 48.25"W
C24	1+641.79	751594.3562	3937608.1908	1+634.38	751599.1203	3937613.8660	1+649.19	751589.1853	3937602.8836	200.00	14.81	7.410	4.2435	S42° 08' 00.12"W
C25	1+673.68	751572.0914	3937585.3394	1+666.84	751576.8692	3937590.2431	1+680.53	751567.1132	3937580.6392	328.20	13.69	6.846	2.3901	S45° 27' 00.69"W
C26	1+699.39	751553.3993	3937567.6911	1+694.23	751557.1509	3937571.2332	1+704.48	751550.8314	3937563.2160	34.95	10.25	5.160	16.7972	S38° 14' 47.93"W
C27	1+732.26	751537.0019	3937539.1152	1+726.69	751539.7757	3937543.9491	1+737.83	751534.5016	3937534.1343	200.00	11.14	5.573	3.1924	S28° 15' 06.70"W
C28	1+766.27	751521.7439	3937508.7196	1+758.22	751525.3546	3937515.9124	1+774.30	751517.2919	3937502.0149	132.93	16.08	8.048	6.9292	S30° 07' 13.04"W
C29	1+831.17	751485.8309	3937454.6353	1+830.70	751486.0925	3937455.0292	1+831.84	751485.5702	3937454.2409	466.45	0.95	0.473	0.1162	S33° 31' 36.57"W
C30	1+899.53	751448.1334	3937397.6129	1+878.23	751459.8774	3937415.3772	1+906.99	751435.3195	3937414.6216	15.04	28.75	21.295	109.5379	S88° 14' 15.75"W
C31	1+944.38	751412.8184	3937444.4888	1+915.14	751430.4126	3937421.1350	1+942.11	751410.3287	3937415.3554	11.19	26.97	29.240	138.1221	S73° 56' 44.31"W
C32	1+964.19	751408.4490	3937393.3599	1+958.99	751408.8917	3937398.5406	1+969.25	751406.0283	3937388.7580	25.72	10.26	5.200	22.8603	S16° 18' 53.23"W
C33	2+000.78	751391.3501	3937360.8534	1+995.09	751393.9993	3937365.8896	2+006.45	751389.4628	3937355.4851	77.73	11.36	5.690	8.3746	S23° 33' 27.62"W
C34	2+033.66	751380.4368	3937329.8120	2+029.28	751381.8917	3937333.9505	2+038.05	751379.2354	3937325.5929	144.56	8.77	4.387	3.4764	S17° 37' 55.87"W
C35	2+086.69	751365.9129	3937278.8053	2+066.62	751371.4091	3937298.1074	2+104.51	751348.0909	3937269.5773	46.45	37.89	20.069	46.7315	S39° 15' 34.99"W
C36	2+156.28	751302.1190	3937245.7736	2+142.59	751314.2807	3937252.0708	2+169.85	751288.8247	3937242.4841	115.91	27.26	13.695	13.4766	S69° 21' 49.47"W
C37	2+187.67	751271.5282	3937238.2043	2+184.81	751274.3022	3937238.8907	2+190.47	751268.6825	3937238.4652	16.95	5.66	2.858	19.1358	S85° 40' 11.68"W
C38	2+227.31	751232.0000	3937241.8280	2+215.00	751244.2633	3937240.7038	2+233.87	751231.6718	3937229.5176	11.54	18.88	12.315	93.7107	S48° 22' 56.81"W
C39	2+257.23	751231.0493	3937206.1656	2+247.87	751231.2988	3937215.5277	2+266.55	751229.2014	3937196.9843	108.66	18.68	9.365	9.8521	S6° 27' 11.35"W
C40	2+303.39	751221.9326	3937160.8674	2+295.85	751223.4219	3937168.2671	2+310.62	751217.0734	3937155.0915	29.51	14.78	7.548	28.6942	S25° 43' 34.72"W
C41	2+337.49	751199.7794	3937134.5349	2+332.82	751202.7831	3937138.1051	2+342.15	751196.9456	3937130.8284	200.00	9.33	4.666	2.6727	S38° 44' 13.35"W
C42	2+409.14	751156.2592	3937077.6142	2+386.25	751170.1612	3937095.7967	2+431.83	751146.8246	3937056.7610	200.00	45.58	22.888	13.0571	S30° 52' 19.56"W
C43	2+500.14	751118.6647	3936994.5199	2+490.98	751122.4399	3937002.8640	2+509.30	751114.7573	3936986.2368	1151.70	18.32	9.158	0.9112	S24° 47' 56.91"W
C44	2+524.50	751108.2725	3936972.4899	2+516.74	751111.5854	3936979.5128	2+532.26	751105.5140	3936965.2313	200.00	15.52	7.765	4.4468	S23° 01' 52.81"W
C45	2+587.59	751085.8580	3936913.5079	2+553.32	751098.0320	3936945.5428	2+617.85	751053.9639	3936900.9695	77.46	64.53	34.270	47.7309	S44° 40' 24.16"W
C46	2+680.30	750995.8441	3936878.1210	2+662.45	751012.4565	3936884.6517	2+698.06	750978.3378	3936874.6353	200.00	35.61	17.850	10.2003	S73° 38' 20.30"W
C47	2+737.05	750940.0916	3936867.0201	2+721.00	750955.8379	3936870.1553	2+752.59	750927.1577	3936857.5074	72.20	31.60	16.055	25.0731	S66° 12' 09.28"W
C48	2+783.94	750901.9022	3936838.9323	2+775.37	750908.8110	3936844.0136	2+792.14	750898.4005	3936831.1036	32.50	16.77	8.576	29.5680	S38° 52' 55.30"W
C49	2+864.07	750869.0305	3936765.4398	2+850.08	750874.7432	3936778.2121	2+878.06	750863.0813	3936752.7759	1505.64	27.98	13.992	1.0648	S24° 37' 49.54"W
C50	2+922.59	750844.1468	3936712.4701	2+917.33	750846.3850	3936717.2347	2+927.86	750841.6610	3936707.8299	200.00	10.53	5.264	3.0154	S26° 40' 14.00"W

*[Handwritten signature]*

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

*[Handwritten signature]*



CLIENT: <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC) <b>MINCONSULT SDN BHD</b> (COMPANY NO. 9835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE	SHEET CONTENT:
		a	AUG. 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL			N.T.S	
		b			DRAWN	IMRAN TARIQ			DATE:	
		c			CHECKED	SHAHZAD DURRANI			AUG. 2024	
					APPROVED	AGEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	DWG NO: CEC/WRP/RRDP-N-CHT-2/ HCD-01	

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	P Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C51	2+989.24	750812.6750	3936653.7220	2+973.43	750820.1406	3936667.6579	3+004.71	750800.8049	3936643.2795	87.50	31.28	15.810	20.4826	S38° 25' 10.34"W
C52	3+087.11	750738.9420	3936588.8566	3+070.93	750751.0887	3936599.5425	3+103.02	750724.1099	3936582.3958	103.30	32.10	16.178	17.8015	S57° 33' 41.72"W
C53	3+161.14	750670.8236	3936559.1846	3+140.59	750689.6678	3936567.3931	3+180.18	750661.1267	3936541.0613	59.17	39.57	20.554	38.3135	S47° 18' 20.20"W
C54	3+197.08	750653.1430	3936526.1398	3+188.06	750657.3958	3936534.0881	3+205.90	750651.9348	3936517.2067	49.98	17.84	9.015	20.4463	S17° 55' 32.61"W
C55	3+240.35	750647.3176	3936483.0688	3+224.09	750649.4975	3936499.1863	3+255.97	750637.8401	3936469.8513	65.38	31.88	16.264	27.9396	S21° 40' 20.66"W
C56	3+290.42	750617.7664	3936441.8563	3+272.87	750627.9879	3936456.1113	3+306.56	750618.9089	3936424.3527	49.02	33.69	17.541	39.3765	S15° 57' 14.29"W
C57	3+341.87	750621.2084	3936389.1200	3+328.88	750620.3622	3936402.0859	3+353.81	750613.5407	3936378.6302	35.80	24.93	12.993	39.8999	S16° 12' 56.41"W
C58	3+405.28	750583.1680	3936337.0789	3+393.66	750590.0244	3936346.4588	3+416.83	750578.1319	3936326.6084	126.70	23.17	11.619	10.4789	S30° 55' 34.26"W
C59	3+439.42	750568.3406	3936306.2515	3+434.27	750570.5712	3936310.8891	3+444.55	750565.5282	3936301.9417	79.15	10.28	5.146	7.4397	S29° 24' 23.78"W
C60	3+521.16	750523.6618	3936237.7836	3+506.60	750531.6186	3936249.9770	3+535.30	750521.3230	3936223.4128	68.85	28.70	14.560	23.8827	S21° 11' 06.40"W
C61	3+575.98	750514.7876	3936183.2563	3+568.13	750516.0481	3936191.0016	3+583.76	750511.7394	3936176.0254	65.74	15.62	7.847	13.6141	S16° 03' 02.91"W
C62	3+636.95	750491.0747	3936127.0048	3+628.69	750494.2846	3936134.6192	3+645.19	750488.8465	3936119.0475	131.08	16.50	8.263	7.2141	S19° 15' 02.91"W
C63	3+675.48	750480.6787	3936089.8800	3+665.15	750483.4660	3936099.8333	3+685.08	750484.5173	3936080.2829	30.50	19.93	10.336	37.4438	S3° 04' 41.32"E
C64	3+706.78	750492.5756	3936060.1357	3+696.63	750488.8064	3936069.5595	3+716.31	750490.3410	3936050.2352	32.67	19.68	10.150	34.5191	S4° 32' 25.71"E
C65	3+793.92	750473.2541	3935974.5326	3+783.52	750475.5442	3935984.6788	3+804.32	750470.8599	3935964.4106	2023.05	20.80	10.401	0.5892	S13° 00' 49.25"W
C66	3+861.47	750457.7032	3935908.7898	3+852.83	750459.6941	3935917.2063	3+870.12	750455.9788	3935900.3146	548.23	17.30	8.649	1.8076	S12° 24' 16.00"W
C67	3+962.08	750437.6443	3935810.2029	3+936.34	750442.7754	3935835.4217	3+987.37	750424.7897	3935787.9077	158.32	51.02	25.735	18.4657	S20° 44' 00.44"W
C68	4+024.60	750406.1932	3935755.6539	4+018.25	750409.3633	3935761.1520	4+030.94	750402.6810	3935750.3678	200.00	12.69	6.347	3.6351	S31° 47' 01.72"W
C69	4+091.82	750368.9922	3935699.6646	4+081.31	750374.8046	3935708.4126	4+102.32	750363.3086	3935690.8323	1432.43	21.01	10.503	0.8402	S33° 10' 52.48"W
C70	4+175.67	750323.6167	3935629.1507	4+170.96	750326.1628	3935633.1074	4+180.37	750321.2595	3935625.0787	200.00	9.41	4.705	2.6953	S31° 24' 48.50"W
C71	4+268.15	750277.2832	3935549.1111	4+257.58	750282.5773	3935558.2565	4+278.70	750271.0549	3935540.5746	200.00	21.11	10.567	6.0489	S33° 05' 24.87"W
C72	4+392.73	750203.8421	3935448.4525	4+359.25	750223.5794	3935475.5045	4+425.50	750191.9426	3935416.1976	184.96	66.26	33.487	20.5249	S25° 51' 08.11"W
C73	4+484.84	750178.8955	3935359.0424	4+481.07	750179.9100	3935362.6782	4+488.61	750178.0769	3935355.3575	141.06	7.55	3.775	3.0657	S14° 03' 25.05"W
C74	4+553.52	750164.0016	3935291.9939	4+523.28	750170.5601	3935321.5184	4+582.16	750142.7113	3935270.5129	104.71	58.89	30.244	32.2205	S28° 38' 03.58"W
C75	4+611.38	750122.1406	3935249.7580	4+605.85	750126.0373	3935253.6895	4+616.91	750118.7186	3935245.4071	96.60	11.06	5.535	6.5592	S41° 27' 53.90"W
C76	4+685.69	750076.1940	3935191.3396	4+678.67	750080.5381	3935196.8628	4+692.64	750070.5776	3935187.1168	53.82	13.97	7.027	14.8765	S45° 37' 25.14"W
C77	4+763.47	750013.9670	3935144.5535	4+754.24	750021.3409	3935150.0977	4+771.42	750013.7567	3935135.3302	19.02	17.18	9.226	51.7557	S27° 11' 02.74"W
C78	4+816.50	750012.7291	3935090.2663	4+793.77	750013.2471	3935112.9857	4+839.03	750017.3215	3935068.0099	200.00	45.28	22.725	12.9650	S5° 10' 34.47"E
C79	4+884.29	750026.4670	3935023.6870	4+865.84	750022.7397	3935041.7511	4+901.99	750038.2713	3935009.5144	73.62	36.15	18.445	28.1319	S25° 43' 28.98"E
C80	4+954.51	750071.8838	3934969.1581	4+945.63	750066.2016	3934975.9803	4+963.20	750079.5785	3934964.7284	49.64	17.57	8.879	20.2812	S49° 55' 52.59"E
C81	4+987.20	750100.3750	3934952.7563	4+971.02	750086.3519	3934960.8291	4+998.47	750095.8951	3934937.2081	20.66	27.45	16.181	76.1452	S21° 59' 57.34"E
C82	5+016.44	750090.9185	3934919.9362	5+011.04	750092.4149	3934925.1295	5+021.81	750088.3465	3934915.1818	50.08	10.77	5.405	12.3197	S22° 13' 59.54"W
C83	5+042.94	750078.2968	3934896.5861	5+034.95	750082.0989	3934903.6199	5+050.88	750076.0527	3934888.9119	75.48	15.93	7.996	12.0932	S22° 20' 47.24"W
C84	5+083.71	750066.8382	3934857.4002	5+076.03	750068.9937	3934864.7718	5+091.35	750066.0190	3934849.7636	86.25	15.32	7.680	10.1771	S11° 12' 40.60"W
C85	5+105.10	750064.5530	3934836.0971	5+100.31	750065.0636	3934840.8571	5+109.87	750063.3753	3934831.4568	67.46	9.56	4.787	8.1183	S10° 10' 54.68"W
C86	5+168.08	750049.0554	3934775.0351	5+140.44	750055.8532	3934801.8190	5+195.08	750033.0363	3934752.5189	147.74	54.63	27.633	21.1889	S24° 50' 07.66"W
C87	5+244.93	750004.1399	3934711.9027	5+197.68	750031.5288	3934750.4000	5+289.44	749960.0065	3934695.0375	156.21	91.76	47.246	33.6562	S52° 15' 28.82"W
C88	5+307.88	749942.7769	3934688.4534	5+300.49	749949.6874	3934691.0941	5+315.19	749935.4138	3934687.7376	54.85	14.71	7.398	15.3616	S76° 46' 00.73"W
C89	5+340.99	749909.7346	3934685.2413	5+329.70	749920.9743	3934686.3339	5+352.26	749898.6894	3934682.8904	200.00	22.56	11.293	6.4633	S81° 12' 57.56"W
C90	5+399.48	749852.5073	3934673.0609	5+363.18	749888.0078	3934680.6169	5+433.67	749818.7888	3934686.4936	119.70	70.48	36.296	33.7370	N85° 08' 49.87"W
C91	5+472.77	749782.4650	3934700.9643	5+444.92	749808.3357	3934690.6579	5+496.81	749758.3016	3934687.1207	57.70	51.89	27.848	51.5303	S85° 57' 22.12"W
C92	5+547.32	749714.4764	3934662.0126	5+531.72	749728.0091	3934669.7657	5+562.63	749699.1713	3934659.0125	94.63	30.91	15.596	18.7186	S69° 33' 01.11"W
C93	5+579.37	749682.7437	3934655.7924	5+574.16	749687.8626	3934656.7958	5+584.53	749678.0867	3934653.4827	39.12	10.37	5.216	15.1915	S71° 18' 50.01"W
C94	5+603.31	749661.2233	3934645.1648	5+587.47	749675.4267	3934652.1790	5+617.10	749646.7508	3934651.6055	33.76	29.62	15.841	50.2725	S88° 51' 15.77"W
C95	5+639.41	749626.3624	3934660.6791	5+628.39	749636.4335	3934656.1971	5+650.14	749615.3413	3934660.9021	54.59	21.75	11.023	22.8313	N77° 25' 30.20"W
C96	5+694.86	749570.6310	3934661.8088	5+681.92	749583.5752	3934661.5449	5+703.59	749567.8594	3934649.1602	15.76	21.68	12.947	78.7975	S51° 45' 37.84"W
C97	5+715.54	749565.3013	3934637.4884	5+707.01	749567.1273	3934645.8201	5+722.89	749557.6189	3934633.7829	17.53	15.88	8.529	51.8885	S38° 18' 21.53"W
C98	5+742.07	749540.3472	3934625.4521	5+734.97	749546.7363	3934628.5338	5+749.02	749535.3920	3934620.3764	40.36	14.04	7.093	19.9382	S54° 16' 51.98"W
C99	5+780.43	749513.4457	3934597.8966	5+761.77	749526.4807	3934611.2485	5+794.31	749496.4628	3934605.6276	26.57	32.53	18.660	70.1640	S79° 23' 38.33"W
C100	5+811.47	749480.8411	3934612.7389	5+799.20	749492.0058	3934607.6565	5+822.34	749469.5194	3934608.0166	28.13	23.14	12.267	47.1170	N89° 04' 57.18"W



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



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

DESIGN CONSULTANT: (MIN - JV - CEC)  
**MINCONSULT SDN BHD**  
(COMPANY NO. 5835-P)  
J.V.  
**CREATIVE ENGINEERING CONSULTANTS (CEC)**

REV	DATE	DESCRIPTION
0	AUG, 2024	TENDER DRAWINGS
a		
b		
c		

NAMES:	
G. DESIGNED	TANZEEL
DRAWN	IMRAN TARIQ
CHECKED	SHAHZAD DURRANI
APPROVED	AGEEL YOUNIS

PROJECT: **KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)**

ROAD NAME: **N-CHT-2 OSAIC TO ORSOON ROAD**  
**ACCESS ROAD**

SCALE:	SHEET CONTENT:
N.T.S	HORIZONTAL CURVE DATA
DATE:	
AUG, 2024	

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C101	5+838.07	749455.0046	3934601.9624	5+830.64	749461.8580	3934604.8210	5+845.33	749447.5827	3934601.7223	40.48	14.69	7.426	20.7881	S77° 45' 10.71"W
C102	5+874.94	749417.9867	3934600.7648	5+866.00	749426.9213	3934601.0539	5+882.93	749411.9222	3934594.1972	21.36	16.93	8.939	45.4279	S65° 25' 58.99"W
C103	5+911.21	749392.7363	3934573.4195	5+901.90	749399.0537	3934580.2610	5+920.04	749383.7522	3934570.9699	32.44	18.14	9.312	32.0292	S58° 44' 01.18"W
C104	5+941.86	749362.7004	3934565.2298	5+932.55	749371.6807	3934567.6784	5+950.46	749357.1873	3934557.7300	26.71	17.91	9.308	38.4283	S55° 32' 02.66"W
C105	5+970.83	749345.1222	3934541.3174	5+957.99	749352.7272	3934551.8628	5+980.01	749333.0733	3934545.7543	17.07	22.02	12.840	73.8955	S73° 16' 03.51"W
C106	6+024.18	749291.6259	3934561.0165	6+003.23	749311.2835	3934553.7780	6+030.88	749292.2470	3934540.0778	14.15	27.64	20.948	111.9144	S54° 15' 29.36"W
C107	6+075.42	749293.5678	3934495.5527	6+055.42	749292.9747	3934515.5460	6+089.16	749274.1926	3934490.5839	25.00	33.74	20.002	77.3155	S36° 57' 31.36"W
C108	6+108.07	749255.8791	3934485.8874	6+098.01	749265.8207	3934488.3857	6+115.92	749254.0300	3934476.0020	15.78	17.91	10.057	65.0218	S43° 06' 20.19"W
C109	6+131.44	749251.1755	3934460.7417	6+120.44	749253.1984	3934471.5563	6+138.82	749240.1734	3934460.7033	13.30	18.38	11.002	79.2055	S50° 11' 50.86"W
C110	6+169.91	749209.0833	3934460.5949	6+154.23	749224.7681	3934460.6496	6+179.28	749208.3920	3934444.9252	16.45	25.06	15.685	87.2742	S46° 09' 47.21"W
C111	6+217.22	749206.7199	3934407.0224	6+209.09	749207.0781	3934415.1433	6+223.39	749199.0494	3934404.3313	12.02	14.29	8.129	68.1411	S36° 35' 47.61"W
C112	6+234.36	749188.6947	3934400.6985	6+228.37	749194.3501	3934402.6826	6+239.96	749185.2973	3934395.7612	18.37	11.59	5.993	36.1342	S52° 35' 59.88"W
C113	6+256.65	749175.8333	3934382.0079	6+250.53	749179.3020	3934387.0487	6+262.53	749170.4265	3934379.1426	24.96	12.00	6.119	27.5466	S48° 16' 22.11"W
C114	6+277.71	749157.0192	3934372.0377	6+268.51	749165.1457	3934376.3442	6+284.83	749157.6417	3934362.8617	14.17	16.32	9.197	65.9602	S29° 05' 57.64"W
C115	6+305.25	749159.0237	3934342.4886	6+296.65	749158.4420	3934351.0630	6+313.40	749155.0122	3934334.8881	30.26	16.75	8.594	31.7054	S11° 58' 19.10"W
C116	6+327.78	749148.2990	3934322.1687	6+322.07	749150.9646	3934327.2191	6+333.45	749146.7546	3934316.6707	53.73	11.38	5.711	12.1340	S21° 45' 27.65"W
C117	6+358.65	749139.9391	3934292.4088	6+344.08	749143.8787	3934306.4331	6+365.42	749126.8067	3934298.7128	12.23	21.34	14.567	99.9520	S65° 39' 59.91"W
C118	6+381.23	749112.5623	3934305.5506	6+367.83	749124.6368	3934299.7544	6+392.13	749101.4927	3934298.0103	23.24	24.30	13.394	59.9046	S85° 41' 25.11"W
C119	6+411.67	749085.3488	3934287.0133	6+398.39	749096.3252	3934294.4902	6+419.45	749092.5214	3934275.8356	13.65	21.07	13.281	88.4259	S11° 31' 30.22"W
C120	6+439.61	749103.4059	3934258.8734	6+426.10	749096.1121	3934270.2399	6+452.48	749115.4428	3934252.7489	49.80	26.38	13.505	30.3450	S47° 51' 37.27"E
C121	6+463.96	749125.6746	3934247.5429	6+453.12	749116.0169	3934252.4568	6+472.84	749126.4327	3934236.7335	19.14	19.72	10.836	59.0213	S33° 31' 19.86"E
C122	6+500.25	749129.3502	3934209.3905	6+487.41	749127.4515	3934222.2061	6+513.07	749130.8812	3934196.7953	200.00	25.66	12.847	7.3507	S7° 41' 12.79"E
C123	6+530.35	749134.2864	3934179.8502	6+526.93	749133.6121	3934183.2055	6+533.76	749134.5063	3934176.4349	51.01	6.83	3.422	7.6771	S7° 31' 25.32"E
C124	6+564.78	749136.5001	3934145.4791	6+556.60	749135.9744	3934153.6416	6+572.44	749141.6377	3934139.1145	25.76	15.84	8.179	35.2256	S21° 17' 52.64"E
C125	6+578.53	749145.4602	3934134.3790	6+574.11	749142.6875	3934137.8139	6+582.82	749146.6280	3934130.1220	21.16	8.70	4.414	23.5700	S27° 07' 32.74"E
C126	6+631.90	749159.6133	3934082.7881	6+607.10	749153.0511	3934106.7086	6+656.24	749157.9780	3934058.0378	147.27	49.15	24.804	19.1209	S5° 46' 49.25"E
C127	6+679.71	749156.4312	3934034.6282	6+669.96	749157.0737	3934044.3496	6+688.92	749150.6461	3934028.7846	33.28	18.96	9.745	32.6382	S20° 05' 57.00"W
C128	6+720.69	749131.7838	3934001.2175	6+707.38	749139.6900	3934011.9341	6+733.22	749119.2289	3933996.7760	43.42	25.84	13.317	34.0997	S53° 28' 05.08"W
C129	6+785.37	749070.0614	3933979.3822	6+775.50	749079.3673	3933982.6743	6+793.07	749063.1634	3933986.4431	15.45	17.57	9.871	65.1508	N76° 54' 24.04"W
C130	6+799.99	749058.3242	3933991.3966	6+794.62	749062.0830	3933987.5491	6+805.28	749053.5285	3933993.8323	32.59	10.66	5.379	18.7432	N53° 42' 10.26"W
C131	6+813.89	749045.8517	3933997.7313	6+805.92	749052.9522	3933994.1250	6+821.65	749040.6563	3934003.7671	40.31	15.73	7.964	22.3536	N51° 53' 51.43"W
C132	6+842.44	749027.0899	3934019.5279	6+835.73	749031.4726	3934014.4362	6+849.16	749022.3753	3934024.3140	200.00	13.43	6.718	3.8478	N42° 38' 40.94"W
C133	6+867.73	749009.3446	3934037.5424	6+859.08	749015.4110	3934031.3840	6+876.30	749002.1005	3934042.2596	79.83	17.22	8.645	12.3604	N50° 44' 55.69"W
C134	6+915.84	748968.9697	3934063.8334	6+905.44	748977.6809	3934058.1609	6+926.23	748960.1496	3934069.3348	1065.75	20.79	10.395	1.1177	N57° 29' 16.24"W
C135	6+983.14	748911.8618	3934099.4537	6+979.04	748915.3449	3934097.2811	6+987.08	748907.7630	3934099.6823	16.01	8.04	4.105	28.7615	N72° 25' 38.77"W
C136	7+004.98	748889.8846	3934100.6793	7+000.89	748893.9747	3934100.4512	7+009.04	748885.9707	3934101.8888	33.41	8.15	4.096	13.9807	N79° 49' 04.21"W
C137	7+039.61	748856.7637	3934110.9145	7+036.00	748860.2136	3934109.8484	7+043.05	748853.2512	3934110.0771	13.21	7.05	3.611	30.5827	N88° 07' 07.79"W
C138	7+089.45	748808.1137	3934099.3153	7+071.46	748825.6105	3934103.4869	7+101.35	748801.0458	3934115.8558	21.33	29.89	17.987	80.2726	N63° 16' 25.96"W
C139	7+131.47	748789.2119	3934143.5496	7+128.43	748790.4039	3934140.7600	7+134.49	748787.7220	3934146.1921	55.33	6.06	3.034	6.2767	N26° 16' 33.40"W
C140	7+162.06	748774.1848	3934170.2029	7+153.34	748778.4647	3934162.6117	7+166.35	748767.2203	3934164.9644	7.64	13.00	8.715	97.5350	N78° 10' 54.53"W
C141	7+172.20	748762.5390	3934161.4433	7+166.53	748767.0759	3934164.8558	7+175.81	748765.3905	3934156.5343	6.39	9.29	5.677	83.2025	S11° 26' 57.99"W
C142	7+196.99	748776.0296	3934138.2191	7+194.82	748774.9388	3934140.0969	7+199.16	748777.0249	3934136.2889	86.57	4.34	2.172	2.8740	S28° 42' 53.24"E
C143	7+240.75	748796.0864	3934099.3228	7+223.31	748788.0938	3934114.8230	7+256.65	748791.7940	3934082.4198	46.00	33.34	17.439	41.5264	S6° 30' 52.51"E
C144	7+299.74	748781.1903	3934040.6634	7+273.65	748787.6118	3934065.9506	7+318.41	748803.6795	3934027.4379	34.75	44.76	26.090	73.7897	S22° 38' 46.38"E
C145	7+328.43	748812.3177	3934022.3580	7+320.06	748805.1100	3934026.5967	7+335.43	748812.8306	3934014.0120	15.72	15.37	8.362	56.0249	S31° 31' 42.86"E
C146	7+349.41	748813.6878	3934000.0611	7+344.15	748813.3651	3934005.3132	7+354.35	748810.9774	3933995.5508	16.94	10.20	5.262	34.5194	S13° 44' 36.98"W
C147	7+386.98	748794.1697	3933967.5818	7+375.77	748799.9466	3933977.1949	7+398.13	748786.6320	3933959.2771	114.13	22.36	11.215	11.2251	S36° 36' 57.03"W
C148	7+466.71	748740.5382	3933908.4933	7+457.67	748746.6132	3933915.1865	7+475.74	748733.8841	3933902.3754	200.00	18.07	9.039	5.1755	S44° 48' 58.04"W
C149	7+512.80	748706.5990	3933877.2889	7+504.60	748712.6378	3933882.8410	7+520.95	748699.5605	3933873.0756	80.12	16.35	8.203	11.6913	S53° 14' 58.23"W
C150	7+558.58	748667.2728	3933853.7481	7+548.53	748675.8912	3933858.9071	7+568.50	748660.3464	3933846.4737	73.81	19.97	10.044	15.4986	S51° 20' 45.02"W

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. 56835-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 ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD	ACCESS ROAD	N.T.S.	HORIZONTAL CURVE DATA
		a			DRAWN	IMRAN TARIQ					
		b			CHECKED	SHAHZAD DURRANI					
c			APPROVED	AGEEL YOUNIS							
DATE: AUG, 2024. DWG NO: CEC/RRDP-RRDN-CHT-2/ HCD-03											

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	P Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C151	7+617.59	748626.4971	3933810.9242	7+599.20	748639.1754	3933824.2393	7+635.87	748611.6038	3933800.1437	200.00	36.67	18.386	10.5047	S48° 50' 55.89"W
C152	7+711.35	748550.4576	3933755.8832	7+686.19	748570.8452	3933770.6406	7+736.26	748534.3620	3933736.5346	200.00	50.07	25.168	14.3449	S46° 55' 43.51"W
C153	7+751.97	748524.3124	3933724.4540	7+739.33	748532.3992	3933734.1752	7+764.59	748515.0656	3933715.8287	200.00	25.26	12.645	7.2355	S43° 22' 26.60"W
C154	7+820.19	748474.4065	3933677.9026	7+806.26	748484.5901	3933687.4017	7+833.66	748469.2701	3933664.9583	61.93	27.40	13.926	25.3483	S34° 19' 03.54"W
C155	7+854.94	748461.4213	3933645.1785	7+847.38	748464.2158	3933652.2209	7+861.93	748454.8381	3933641.4279	21.58	14.57	7.577	38.6857	S40° 59' 10.94"W
C156	7+911.39	748411.8648	3933616.9454	7+895.34	748425.8126	3933624.8917	7+926.90	748402.7567	3933603.7270	70.20	31.56	16.053	25.7607	S47° 26' 56.03"W
C157	7+937.97	748396.4764	3933594.6124	7+928.13	748402.0617	3933602.7184	7+947.56	748388.2100	3933589.2674	49.39	19.43	9.844	22.5450	S45° 50' 27.80"W
C158	8+055.39	748297.6558	3933530.7157	8+035.12	748314.6796	3933541.7232	8+074.66	748288.7893	3933512.4849	72.66	39.54	20.273	31.1777	S41° 31' 28.95"W
C159	8+092.01	748281.2026	3933496.8857	8+086.00	748283.8305	3933502.2890	8+096.35	748275.2666	3933497.8153	8.13	10.35	6.008	72.9647	S62° 25' 05.50"W
C160	8+107.89	748263.8602	3933499.6016	8+105.36	748266.3656	3933499.2092	8+110.38	748261.3681	3933499.1317	14.70	5.02	2.536	19.5772	S89° 06' 42.83"W
C161	8+124.51	748247.4812	3933496.5136	8+120.37	748251.5453	3933497.2799	8+128.54	748243.4330	3933497.3598	20.81	8.17	4.136	22.4821	N89° 26' 08.38"W
C162	8+155.96	748216.5969	3933502.9687	8+144.05	748228.2544	3933500.5322	8+159.45	748219.0953	3933491.3244	7.75	15.40	11.909	113.9153	S44° 50' 51.93"W
C163	8+191.40	748225.7984	3933460.0836	8+185.25	748224.5082	3933466.0965	8+197.48	748228.5694	3933454.5934	47.77	12.23	6.150	14.6707	S19° 26' 42.94"E
C164	8+215.81	748236.8261	3933438.2342	8+205.37	748232.1241	3933447.5503	8+222.99	748228.7860	3933431.5815	13.08	17.62	10.436	77.1749	S11° 48' 24.53"W
C165	8+239.14	748216.3378	3933421.2814	8+230.87	748222.7125	3933426.5560	8+247.30	748211.7289	3933414.4100	56.91	16.43	8.274	16.5428	S42° 07' 22.25"W
C166	8+271.98	748197.9820	3933393.9149	8+260.09	748204.6037	3933403.7871	8+281.85	748186.0972	3933394.1583	21.75	21.76	11.887	57.3221	S62° 30' 44.98"W
C167	8+311.00	748156.9589	3933394.7552	8+299.15	748168.8041	3933394.5126	8+320.73	748150.6155	3933384.7487	21.03	21.58	11.848	58.8020	S61° 46' 21.23"W
C168	8+339.38	748140.6274	3933368.9928	8+327.33	748147.0798	3933379.1711	8+351.20	748131.1389	3933361.5631	69.89	23.87	12.051	19.5669	S42° 09' 18.10"W
C169	8+394.74	748096.8532	3933334.7168	8+381.47	748107.3068	3933342.9021	8+406.02	748097.3351	3933321.4486	26.05	24.56	13.277	54.0188	S24° 55' 44.77"W
C170	8+422.53	748097.9344	3933304.9502	8+411.99	748097.5517	3933315.4867	8+432.13	748105.2655	3933297.3726	27.49	20.14	10.543	41.9725	S23° 03' 59.47"E
C171	8+473.01	748133.6947	3933267.9875	8+459.71	748124.4477	3933277.5455	8+482.67	748127.3812	3933256.2827	18.17	22.96	13.299	72.3951	S7° 51' 18.74"E
C172	8+498.94	748119.6581	3933241.9648	8+495.19	748121.4416	3933245.2713	8+502.69	748117.5066	3933238.8851	65.19	7.51	3.757	6.5961	S31° 38' 55.53"W
C173	8+535.83	748098.5292	3933211.7206	8+534.14	748099.4943	3933213.1020	8+537.51	748097.5410	3933210.3556	200.00	3.37	1.685	0.9655	S35° 25' 16.53"W
C174	8+646.36	748033.7124	3933122.1929	8+631.72	748042.2968	3933134.0500	8+660.60	748021.1710	3933114.6436	71.79	28.88	14.638	23.0503	S47° 25' 45.05"W
C175	8+673.37	748010.2289	3933108.0571	8+666.72	748015.9240	3933111.4852	8+679.86	748003.6779	3933106.9298	35.38	13.14	6.647	21.2816	S69° 35' 42.53"W
C176	8+704.83	747979.0750	3933102.6960	8+696.99	747986.7965	3933104.0247	8+712.14	747972.0487	3933106.1626	24.10	15.15	7.835	36.0248	N81° 45' 05.96"W
C177	8+760.40	747928.7733	3933127.5138	8+734.65	747951.8612	3933116.1227	8+758.39	747938.3714	3933103.6248	9.84	23.74	25.745	138.1500	S47° 11' 08.71"W
C178	8+779.48	747946.2339	3933084.0556	8+770.21	747942.7794	3933092.6537	8+788.26	747953.7092	3933078.5801	32.43	18.05	9.266	31.8889	S37° 50' 01.23"E
C179	8+801.77	747964.6023	3933070.6012	8+789.95	747955.0680	3933077.5848	8+812.22	747965.9183	3933058.8562	26.93	22.27	11.818	47.3851	S30° 05' 08.11"E
C180	8+838.18	747968.8090	3933033.0565	8+830.55	747967.9594	3933040.6394	8+843.31	747961.5260	3933030.7804	9.25	12.76	7.630	79.0385	S33° 07' 34.29"W
C181	8+860.39	747945.2267	3933025.6867	8+854.77	747950.5891	3933027.3625	8+865.35	747942.8698	3933020.5868	12.67	10.58	5.618	47.8419	S48° 43' 28.14"W
C182	8+912.55	747923.0674	3932977.7375	8+905.79	747925.9064	3932983.8805	8+919.04	747923.5221	3932970.9855	26.50	13.25	6.767	28.6558	S10° 28' 32.25"W
C183	8+957.36	747926.0968	3932932.7495	8+957.26	747926.0901	3932932.8479	8+957.46	747926.1034	3932932.6510	628.81	0.20	0.099	0.0180	S3° 51' 40.56"E
C184	8+979.80	747927.6115	3932910.3593	8+974.63	747927.2623	3932915.5212	8+984.62	747924.8270	3932905.9988	15.72	10.00	5.174	36.4320	S14° 20' 44.67"W
C185	8+996.22	747918.5859	3932896.2255	8+990.04	747921.9136	3932901.4367	9+001.52	747920.7052	3932890.4170	12.51	11.48	6.183	52.6068	S6° 15' 29.93"W
C186	9+028.39	747929.9132	3932865.1801	9+010.84	747923.8997	3932881.6617	9+044.22	747922.9128	3932849.0929	43.91	33.38	17.544	43.5613	S1° 44' 07.88"W
C187	9+085.74	747906.3473	3932811.0241	9+074.19	747910.9545	3932821.6117	9+097.15	747899.1131	3932802.0247	86.09	22.96	11.547	15.2779	S31° 09' 18.31"W
C188	9+115.41	747887.6746	3932787.7950	9+105.06	747894.1565	3932795.8585	9+125.59	747883.9108	3932778.1581	67.37	20.53	10.346	17.4600	S30° 03' 50.42"W
C189	9+175.31	747865.8214	3932731.8426	9+164.62	747869.7127	3932741.8057	9+184.31	747855.4087	3932729.3973	20.35	19.70	10.696	55.4502	S49° 03' 32.67"W
C190	9+201.03	747839.1318	3932725.5749	9+192.43	747847.5047	3932727.5411	9+208.10	747836.4702	3932717.3965	15.28	15.67	8.601	58.7565	S47° 24' 21.28"W
C191	9+248.76	747823.8868	3932678.7325	9+241.41	747826.1617	3932685.7225	9+256.01	747823.6642	3932671.3850	51.35	14.60	7.351	16.2926	S9° 52' 52.96"W
C192	9+275.77	747823.0659	3932651.6311	9+264.32	747823.4128	3932663.0838	9+279.95	747812.3086	3932655.5766	8.26	15.63	11.458	108.4070	S55° 56' 18.92"W
C193	9+294.81	747798.3550	3932660.6946	9+286.20	747806.4447	3932657.7274	9+300.34	747794.3576	3932653.0612	9.83	14.15	8.617	82.5024	S68° 53' 27.26"W
C194	9+306.94	747791.2976	3932647.2177	9+302.84	747793.2012	3932650.8529	9+310.39	747787.2246	3932646.7186	7.82	7.56	4.103	55.3735	S55° 19' 35.20"W
C195	9+344.21	747753.6603	3932642.6052	9+335.65	747762.1554	3932643.6463	9+349.01	747754.8513	3932634.1299	8.41	13.36	8.559	91.0121	S37° 30' 25.69"W
C196	9+380.29	747759.2049	3932603.1478	9+374.96	747758.4627	3932608.4295	9+384.03	747754.2674	3932601.1306	6.85	9.07	5.334	75.7768	S29° 53' 22.28"W
C197	9+423.75	747717.4961	3932586.1080	9+407.19	747732.8230	3932592.3697	9+429.12	747728.9436	3932574.1465	11.27	21.93	16.557	111.5201	S12° 01' 04.44"W
C198	9+455.56	747747.2235	3932555.0458	9+444.76	747739.7545	3932562.8501	9+456.68	747736.4929	3932553.8017	5.37	11.92	10.802	127.1289	S19° 49' 20.25"W
C199	9+490.24	747703.1493	3932549.9358	9+476.17	747717.1282	3932551.5565	9+503.38	747692.8011	3932540.3989	43.25	27.21	14.073	36.0508	S65° 21' 40.84"W
C200	9+520.49	747680.2193	3932528.8033	9+513.21	747685.5778	3932533.7417	9+527.36	747673.0220	3932527.6628	24.09	14.15	7.287	33.6597	S64° 09' 56.99"W



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. 5835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:  HORIZONTAL CURVE DATA  DWG NO: CEC/HR/KP/PRDN-CHT-2/ HCB-04
		a	AUG. 2024.	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	N.T.S	
		b			DRAWN	IMRAN TARIQ			DATE:	
		c			CHECKED	SHAHZAD DURRANI			AUG. 2024.	
			APPROVED	AQEEL YOUNIS						

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+547.03	747653.5910	3932524.5838	9+540.67	747659.8722	3932525.5791	9+551.72	747652.4793	3932518.3222	8.93	11.05	6.359	70.9279	S45° 31' 54.27"W
C202	9+567.47	747849.7264	3932502.8169	9+560.54	747650.9378	3932509.6400	9+573.92	747644.6642	3932498.0845	20.79	13.38	6.930	36.8606	S28° 29' 53.12"W
C203	9+615.91	747613.9900	3932469.4086	9+594.84	747629.3809	3932483.7968	9+619.49	747634.4138	3932464.2346	11.51	24.65	21.069	122.7125	S14° 25' 40.37"E
C204	9+643.41	747657.6034	3932458.3599	9+635.02	747649.4711	3932460.4200	9+651.52	747665.8233	3932460.0365	36.71	16.50	8.389	25.7448	S88° 39' 23.50"E
C205	9+676.64	747690.4363	3932465.0571	9+659.71	747673.8498	3932461.6738	9+691.40	747703.7210	3932454.5653	36.44	31.69	16.928	49.8294	S76° 36' 51.23"E
C206	9+703.25	747713.0208	3932447.2207	9+691.92	747704.1228	3932454.2479	9+712.48	747723.5518	3932451.4223	19.62	20.56	11.338	60.0514	S81° 43' 30.83"E
C207	9+718.64	747729.2739	3932453.7053	9+715.34	747726.2154	3932452.4850	9+721.82	747732.5576	3932453.4572	14.22	6.47	3.293	26.0716	N81° 17' 05.58"E
C208	9+763.78	747774.4028	3932450.2957	9+749.05	747759.7160	3932451.4053	9+767.93	747767.2359	3932437.4283	9.42	18.87	14.729	114.7964	S28° 16' 51.99"E
C209	9+816.88	747743.4135	3932394.6579	9+812.41	747745.5881	3932398.5823	9+821.34	747740.7132	3932391.0969	63.47	8.92	4.469	8.0550	S33° 08' 40.67"W
C210	9+833.99	747733.0700	3932381.0172	9+830.60	747735.1172	3932383.7169	9+837.26	747732.4023	3932377.6954	14.79	6.66	3.388	25.8057	S24° 16' 09.51"W
C211	9+862.30	747727.4677	3932353.1486	9+854.90	747728.9260	3932360.4029	9+869.30	747730.1508	3932346.2527	25.28	14.40	7.399	32.6267	S4° 56' 48.82"E
C212	9+877.69	747733.1957	3932338.4268	9+869.52	747730.2304	3932346.0481	9+883.13	747726.2147	3932334.1676	9.77	13.62	8.178	79.8723	S18° 40' 33.21"W
C213	9+900.82	747711.1187	3932324.9573	9+894.08	747716.8837	3932328.4624	9+907.13	747704.4013	3932325.3663	21.43	13.04	6.730	34.8720	S76° 02' 53.00"W
C214	9+936.70	747674.8853	3932327.1633	9+916.04	747695.5089	3932325.9077	9+955.19	747659.4745	3932313.4004	49.57	39.15	20.662	45.2513	S70° 51' 30.32"W
C215	9+966.00	747651.4098	3932306.1980	9+958.35	747657.1205	3932311.2981	9+972.65	747643.8450	3932307.3802	16.18	14.30	7.657	50.6497	S73° 33' 27.52"W
C216	9+993.69	747623.0576	3932310.6289	9+988.37	747628.3131	3932309.8076	9+998.87	747618.5176	3932313.4007	26.71	10.50	5.319	22.5226	N69° 51' 22.21"W
C217	10+009.10	747609.7866	3932318.7312	10+006.27	747612.2014	3932317.2569	10+011.90	747607.0814	3932319.5803	22.45	5.63	2.829	14.3658	N65° 46' 39.96"W
C218	10+052.91	747567.8687	3932331.5783	10+043.01	747577.3392	3932328.6758	10+058.64	747564.8500	3932322.1442	10.03	15.63	9.905	89.2961	S62° 23' 28.58"W
C219	10+070.73	747561.1643	3932310.6254	10+065.36	747562.8018	3932315.7428	10+073.47	747556.2409	3932312.7768	4.85	8.11	5.373	95.8613	S65° 40' 25.88"W
C220	10+090.50	747540.6398	3932319.5942	10+081.81	747548.6037	3932316.1141	10+098.62	747532.1397	3932317.7821	27.04	16.82	8.691	35.6390	N84° 12' 54.09"W
C221	10+126.72	747504.6571	3932311.9232	10+114.06	747517.0390	3932314.5628	10+132.56	747509.4637	3932300.2110	10.57	18.50	12.880	100.2784	S27° 49' 34.44"W
C222	10+146.57	747514.7799	3932287.2571	10+142.73	747513.3236	3932290.8058	10+150.36	747517.0857	3932284.1917	29.87	7.63	3.836	14.6370	S29° 37' 53.38"E
C223	10+157.33	747521.2727	3932278.6253	10+154.77	747519.7378	3932280.6658	10+159.77	747521.6072	3932276.0939	9.73	4.99	2.553	29.4224	S22° 14' 19.62"E
C224	10+180.22	747524.2860	3932255.8217	10+173.46	747523.4016	3932262.5150	10+184.87	747517.9827	3932253.4558	8.49	11.41	6.751	77.0138	S30° 58' 45.61"W
C225	10+215.21	747489.5463	3932242.8236	10+207.99	747496.3043	3932245.3521	10+221.24	747483.6973	3932247.0488	13.47	13.25	7.216	56.3578	N82° 20' 05.51"W
C226	10+233.32	747473.9097	3932254.1193	10+226.69	747479.2832	3932250.2375	10+238.37	747468.2691	3932250.6368	9.91	11.69	6.629	67.5357	N87° 55' 25.64"W
C227	10+252.59	747456.1702	3932243.1668	10+247.33	747460.6475	3932245.9311	10+257.63	747450.9137	3932242.9258	20.30	10.30	5.262	29.0671	S72° 50' 31.00"W
C228	10+268.68	747439.8767	3932242.4199	10+265.20	747443.3523	3932242.5792	10+271.86	747437.8970	3932239.5588	7.03	6.46	3.479	52.6949	S61° 01' 41.08"W
C229	10+281.75	747432.1535	3932231.2582	10+277.26	747434.7121	3932234.9559	10+285.80	747427.7391	3932230.4025	11.03	8.54	4.497	44.3495	S56° 51' 19.46"W
C230	10+311.08	747402.9129	3932225.5904	10+298.22	747415.5471	3932228.0393	10+323.59	747392.3133	3932218.2918	61.66	25.37	12.869	23.5801	S67° 14' 24.33"W
C231	10+335.11	747382.8254	3932211.7588	10+332.57	747384.9161	3932213.1984	10+337.64	747380.9161	3932210.0861	43.55	5.07	2.538	6.6723	S52° 06' 49.93"W
C232	10+351.05	747370.8295	3932201.2489	10+346.73	747374.0771	3932204.0942	10+355.05	747366.5174	3932201.0296	12.43	8.31	4.318	38.3109	S67° 55' 59.35"W
C233	10+391.01	747330.5969	3932199.2028	10+372.52	747349.0684	3932200.1422	10+392.23	747343.0750	3932185.5509	8.72	19.71	18.495	129.5167	S22° 19' 48.85"W
C234	10+412.37	747356.6619	3932170.6860	10+405.54	747352.0591	3932175.7218	10+419.03	747362.7785	3932167.6638	36.32	13.49	6.822	21.2780	S53° 04' 01.67"E
C235	10+457.33	747397.1130	3932150.6992	10+452.06	747392.3890	3932153.0334	10+462.54	747402.2789	3932149.6610	40.21	10.48	5.269	14.9304	S71° 10' 16.92"E
C236	10+487.72	747426.9642	3932144.7000	10+477.16	747416.6120	3932146.7805	10+498.02	747435.8176	3932138.9455	55.20	20.87	10.559	21.6595	S67° 48' 24.70"E
C237	10+526.03	747459.3029	3932123.6807	10+513.26	747448.5951	3932130.6405	10+527.33	747447.2815	3932119.3700	6.33	14.06	12.771	127.2503	S6° 38' 52.89"W
C238	10+542.27	747433.2183	3932114.3272	10+539.42	747435.8960	3932115.2874	10+545.11	747430.4963	3932113.5007	114.91	5.69	2.845	2.8362	S71° 41' 28.65"W
C239	10+578.29	747398.7491	3932103.8609	10+569.70	747406.9693	3932106.3569	10+586.71	747391.8734	3932098.7107	48.86	17.01	8.591	19.9440	S63° 08' 14.62"W
C240	10+599.12	747381.9361	3932091.2673	10+593.46	747386.4653	3932094.6598	10+604.74	747376.7784	3932088.9390	51.51	11.27	5.659	12.5391	S59° 26' 05.83"W
C241	10+637.90	747346.5563	3932075.2960	10+634.24	747349.8852	3932076.7988	10+641.53	747343.0065	3932074.4358	39.10	7.28	3.652	10.6735	S71° 02' 28.58"W
C242	10+650.50	747334.2876	3932072.3230	10+648.13	747336.5913	3932072.8812	10+652.81	747332.3740	3932070.9241	11.89	4.68	2.370	22.5450	S65° 06' 19.86"W
C243	10+684.54	747306.7588	3932052.1993	10+680.74	747309.8211	3932054.4378	10+688.07	747302.9655	3932052.2066	11.58	7.33	3.793	36.2786	S71° 58' 20.36"W
C244	10+705.03	747286.0061	3932052.2397	10+699.82	747291.2165	3932052.2295	10+710.24	747280.8112	3932051.8375	131.47	10.42	5.210	4.5390	S87° 50' 31.76"W
C245	10+744.26	747248.8927	3932049.2113	10+738.73	747252.4014	3932049.6378	10+749.74	747241.4185	3932049.9604	51.62	11.01	5.525	12.2190	N88° 19' 04.17"W
C246	10+765.56	747225.7502	3932052.1044	10+761.91	747229.3594	3932051.6105	10+769.10	747222.2308	3932051.1641	18.11	7.19	3.643	22.7496	S86° 25' 00.75"W
C247	10+798.02	747194.2915	3932043.6998	10+786.71	747205.2174	3932046.6188	10+801.54	747201.1772	3932034.7285	7.55	14.83	11.309	112.5492	S18° 46' 02.82"W
C248	10+826.25	747216.2205	3932015.1288	10+816.45	747210.2546	3932022.9016	10+832.22	747208.8797	3932008.6385	10.50	15.77	9.798	86.0261	S5° 30' 21.21"W
C249	10+849.07	747196.2545	3931997.4761	10+842.68	747201.0473	3932001.7136	10+855.43	747190.7296	3931994.2506	65.23	12.75	6.398	11.2035	S54° 07' 14.52"W
C250	10+916.33	747138.1399	3931963.5472	10+888.15	747162.4706	3931977.7521	10+910.10	747166.2541	3931961.7161	8.61	21.95	28.174	145.9959	S13° 16' 31.73"E



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 ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	N.T.S DATE: AUG, 2024	HORIZONTAL CURVE DATA
		a			DRAWN	IMRAN TARIQ				
		b			CHECKED	SHAHZAD DURRANI				
c			APPROVED	AQEEL YOUNIS						
DWG NO: CEC/MKWP/RRDP/N-CHT-2/ HCD-05										

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
C251	10+940.09	747196.1806	3931959.7669	10+927.54	747183.6494	3931960.5831	10+938.33	747185.8463	3931952.6325	4.37	10.80	12.558	141.6538	S15° 26' 47.47"E
C252	10+956.55	747170.8555	3931942.2834	10+949.75	747176.4501	3931946.1457	10+963.25	747166.5963	3931936.9848	46.64	13.50	6.798	16.5872	S47° 05' 12.38"W
C253	10+990.93	747149.2521	3931915.4076	10+983.15	747154.1287	3931921.4744	10+997.87	747141.4979	3931914.7288	18.25	14.71	7.784	46.2036	S61° 53' 41.87"W
C254	11+011.37	747128.0407	3931913.5507	11+006.47	747132.9263	3931913.9784	11+015.94	747124.3695	3931910.2990	14.86	9.47	4.904	36.5283	S66° 43' 57.30"W
C255	11+040.12	747106.2698	3931894.2679	11+031.51	747112.7193	3931899.9803	11+042.08	747114.3782	3931891.3555	5.10	10.58	8.618	118.7107	S10° 53' 13.03"E
C256	11+066.34	747137.2077	3931883.1554	11+057.04	747128.4556	3931886.2991	11+072.49	747135.5892	3931873.9978	11.03	15.45	9.300	80.2649	S30° 06' 35.59"E
C257	11+105.96	747129.7647	3931841.0414	11+092.99	747132.0218	3931853.8127	11+109.21	747142.1666	3931844.8352	7.94	16.22	12.969	117.0319	S48° 29' 36.26"E
C258	11+166.32	747196.7724	3931861.5397	11+156.66	747187.5410	3931858.7157	11+175.93	747205.3899	3931865.8910	112.81	19.26	9.654	9.7820	N68° 05' 58.75"E
C259	11+209.34	747235.2152	3931880.9512	11+199.01	747225.9924	3931876.2942	11+219.51	747245.4079	3931882.6414	67.61	20.51	10.332	17.3758	N71° 53' 47.54"E
C260	11+245.15	747270.7028	3931886.8361	11+235.77	747261.4466	3931885.3011	11+254.43	747279.2649	3931890.6732	72.62	18.66	9.383	14.7241	N73° 13' 20.48"E
C261	11+272.13	747295.4134	3931897.9102	11+267.77	747291.4386	3931896.1289	11+276.27	747299.7366	3931897.3796	15.63	8.50	4.356	31.1364	N81° 25' 42.56"E
C262	11+320.96	747344.0956	3931891.9356	11+305.85	747329.0964	3931893.7764	11+335.65	747358.5998	3931896.1780	73.29	29.81	15.112	23.3005	N85° 20' 47.10"E
C263	11+384.68	747405.6599	3931909.9428	11+380.94	747402.0671	3931908.8919	11+388.42	747409.1536	3931911.2864	90.62	7.48	3.743	4.7310	N71° 19' 50.32"E
C264	11+423.98	747442.3433	3931924.0498	11+406.95	747426.4419	3931917.9347	11+436.26	747452.8083	3931910.6062	22.97	29.32	17.037	73.1364	S74° 28' 00.07"E
C265	11+454.24	747463.8500	3931896.4217	11+447.02	747459.4191	3931902.1137	11+457.18	747457.2134	3931893.5956	5.55	10.16	7.213	104.8324	S14° 31' 03.68"W
C266	11+464.06	747450.8827	3931890.8998	11+457.67	747456.7615	3931893.4032	11+467.92	747448.0442	3931896.6242	6.77	10.24	6.390	86.6910	N69° 43' 14.27"W
C267	11+485.05	747440.4316	3931911.9764	11+474.66	747445.0466	3931902.6695	11+491.15	747430.9961	3931907.6306	10.69	16.49	10.388	88.3544	N70° 33' 08.37"W
C268	11+538.49	747387.9955	3931887.8257	11+532.42	747393.5143	3931890.3676	11+544.53	747382.0766	3931886.4528	59.46	12.11	6.076	11.6702	S71° 06' 20.10"W
C269	11+591.46	747336.3589	3931875.8482	11+582.76	747344.8292	3931877.8129	11+599.95	747329.1931	3931870.9228	45.92	17.19	8.695	21.4431	S66° 13' 08.79"W
C270	11+616.14	747315.8540	3931861.7543	11+611.29	747319.8498	3931864.5007	11+620.79	747311.0380	3931861.1932	19.55	9.51	4.849	27.8573	S69° 25' 34.21"W
C271	11+640.47	747291.4971	3931858.9166	11+636.05	747295.8822	3931859.4275	11+644.86	747287.2742	3931857.6295	48.96	8.81	4.415	10.3056	S78° 12' 07.22"W
C272	11+663.47	747269.4668	3931852.2020	11+658.67	747274.0614	3931853.6023	11+668.25	747264.6941	3931851.6614	52.33	9.58	4.803	10.4885	S78° 17' 36.52"W
C273	11+697.14	747235.9902	3931848.4101	11+688.95	747244.1255	3931849.3316	11+704.89	747229.5836	3931843.3122	28.51	15.95	8.187	32.0482	S67° 30' 49.19"W
C274	11+732.58	747207.9218	3931826.0752	11+723.10	747215.3415	3931831.9793	11+741.94	747199.1760	3931822.4121	68.40	18.84	9.482	15.7848	S59° 22' 55.12"W
C275	11+780.92	747163.2207	3931807.3528	11+776.95	747166.8846	3931808.8874	11+784.84	747160.1036	3931804.8904	29.03	7.90	3.972	15.5825	S59° 28' 59.12"W
C276	11+819.52	747132.8958	3931783.3966	11+815.86	747135.7666	3931785.6645	11+823.17	747129.7990	3931781.4486	68.26	7.31	3.659	6.1362	S54° 45' 35.71"W
C277	11+843.24	747112.8070	3931770.7598	11+834.06	747120.5831	3931775.6513	11+847.05	747119.4682	3931764.4333	7.14	12.99	9.187	104.3043	S5° 40' 33.22"W
C278	11+854.75	747125.0482	3931759.1337	11+848.82	747120.7533	3931763.2128	11+857.29	747128.0580	3931764.2353	4.71	8.47	5.923	102.9844	N82° 01' 53.69"E
C279	11+867.34	747133.1611	3931772.8851	11+862.20	747130.5502	3931768.4595	11+872.29	747137.4903	3931775.6529	21.51	10.09	5.138	26.8676	N43° 58' 23.51"E
C280	11+903.16	747163.4983	3931792.2813	11+897.82	747159.0029	3931789.4071	11+908.47	747168.3641	3931794.4705	72.93	10.65	5.336	8.3688	N61° 35' 28.96"E
C281	11+934.14	747191.7665	3931804.9999	11+929.02	747187.1019	3931802.9012	11+939.12	747196.8776	3931805.1989	26.32	10.10	5.115	21.9947	N76° 46' 23.17"E
C282	11+956.08	747213.8197	3931805.8585	11+950.11	747207.8552	3931805.6263	11+961.60	747218.3671	3931809.7251	17.26	11.49	5.969	38.1450	N68° 41' 52.62"E
C283	11+979.18	747231.7541	3931821.1081	11+974.33	747228.0586	3931817.9658	11+983.15	747236.3467	3931819.5465	8.55	8.82	4.851	59.1533	N79° 12' 07.54"E
C284	11+991.37	747244.1255	3931816.9017	11+985.54	747238.6102	3931818.7769	11+996.85	747249.7500	3931818.4180	19.13	11.31	5.825	33.8665	S88° 09' 16.21"E
C285	12+027.94	747279.7726	3931826.5118	12+019.67	747271.7867	3931824.3589	12+036.15	747288.0362	3931826.8622	74.56	16.47	8.271	12.6597	N81° 14' 31.69"E
C286	12+073.02	747324.8707	3931828.4241	12+066.10	747317.9585	3931828.1310	12+079.69	747330.9260	3931831.7704	29.38	13.59	6.918	26.4980	N74° 19' 22.76"E
C287	12+093.42	747342.9449	3931838.4123	12+087.06	747337.3818	3931835.3380	12+099.68	747349.1733	3931839.6797	41.48	12.61	6.356	17.4237	N69° 47' 09.02"E
C288	12+106.53	747355.8921	3931841.0470	12+103.96	747353.3732	3931840.5344	12+108.95	747357.6886	3931842.8855	8.37	4.99	2.571	34.1616	N61° 25' 00.95"E
C289	12+130.17	747372.5205	3931858.0652	12+118.74	747364.5310	3931849.8884	12+134.93	747378.4860	3931848.3132	8.90	16.18	11.432	104.2086	S83° 33' 34.30"E
C290	12+174.85	747399.3203	3931814.2549	12+161.72	747392.4700	3931825.4533	12+173.53	747386.8336	3931818.3063	4.85	11.81	13.128	139.4310	S38° 15' 37.09"W
C291	12+185.88	747375.0879	3931822.1172	12+180.00	747380.6839	3931820.3016	12+191.49	747369.3345	3931820.8890	21.94	11.50	5.883	30.0264	N87° 02' 14.63"W
C292	12+220.96	747340.5132	3931814.7362	12+216.85	747344.5347	3931815.5947	12+225.07	747336.5654	3931813.5853	112.07	8.22	4.112	4.2030	S75° 50' 52.49"W
C293	12+264.05	747299.1469	3931802.6762	12+255.09	747307.7413	3931805.1818	12+272.88	747290.1949	3931802.7121	61.80	17.78	8.952	16.4834	S81° 59' 17.22"W
C294	12+287.37	747275.6989	3931802.7703	12+281.00	747282.0704	3931802.7447	12+293.40	747270.3232	3931799.3497	21.72	12.40	6.372	32.6987	S73° 52' 49.60"W
C295	12+321.90	747246.2759	3931784.0483	12+316.95	747250.4504	3931786.7045	12+326.78	747241.5126	3931782.7096	33.56	9.82	4.948	16.7721	S65° 55' 01.79"W
C296	12+355.97	747213.4108	3931774.8123	12+351.84	747217.3834	3931775.9267	12+359.98	747209.3166	3931775.3280	20.40	8.14	4.127	22.8761	S85° 44' 28.60"W
C297	12+376.40	747193.0269	3931777.3799	12+369.66	747199.7157	3931776.5373	12+382.26	747188.1063	3931772.7714	14.36	12.61	6.742	50.3034	S72° 01' 39.45"W
C298	12+405.28	747171.3069	3931757.0375	12+400.19	747175.0264	3931760.5212	12+410.30	747168.7887	3931752.6070	33.57	10.12	5.096	17.2635	S38° 14' 39.12"W
C299	12+477.26	747135.7037	3931694.3963	12+470.24	747139.1709	3931700.4966	12+482.79	747128.6996	3931694.8177	11.27	12.55	7.017	63.8302	S61° 31' 39.21"W
C300	12+502.72	747108.8078	3931696.0143	12+494.65	747116.8569	3931695.5301	12+509.41	747104.0633	3931689.4941	14.73	14.76	8.064	57.4013	S64° 44' 31.17"W



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 SON BHD (COMPANY NO. 58305-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				
		a			DRAWN	IMRAN TARQ				
		b			CHECKED	SHAHZAD DURRANI				
					APPROVED	AQEEL YOUNIS	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	N.T.S DATE: AUG, 2024	HORIZONTAL CURVE DATA  DWG NO: CEC/WRP/RRDN-CHT-2/ HCD-08



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
C301	12+527.37	747093.4964	3931674.9720	12+520.81	747097.3555	3931680.2755	12+533.81	747088.1305	3931671.2001	39.50	13.00	6.559	18.8536	S45° 28' 05.35"W
C302	12+546.82	747077.4900	3931663.7204	12+542.52	747081.0043	3931666.1908	12+550.76	747073.2119	3931664.1079	11.71	8.23	4.296	40.2809	S75° 02' 07.49"W
C303	12+578.66	747045.4250	3931666.6249	12+572.01	747052.0400	3931666.0257	12+583.49	747042.8416	3931660.5059	9.09	11.47	6.642	72.2869	S59° 01' 56.76"W
C304	12+594.07	747038.7262	3931650.7581	12+584.29	747042.5301	3931659.7679	12+595.12	747048.2176	3931653.1157	4.89	10.83	9.780	126.8384	S40° 31' 48.65"E
C305	12+603.96	747056.8004	3931655.2476	12+598.44	747051.4408	3931653.9163	12+609.31	747062.2225	3931654.1998	25.03	10.87	5.522	24.8868	N88° 29' 38.50"E
C306	12+620.59	747073.2986	3931652.0593	12+614.30	747067.1220	3931653.2529	12+626.62	747079.2906	3931653.9753	24.62	12.32	6.291	28.6688	N86° 36' 10.91"E
C307	12+641.57	747093.5262	3931658.5270	12+633.97	747086.2911	3931656.2136	12+648.72	747100.8253	3931656.4243	25.00	14.75	7.596	33.8016	N89° 10' 09.99"E
C308	12+661.24	747112.8593	3931652.9576	12+656.51	747108.3091	3931654.2684	12+665.37	747116.7811	3931655.6114	10.12	8.86	4.735	50.1559	N80° 50' 32.29"E
C309	12+680.62	747129.4122	3931664.1588	12+677.12	747126.5190	3931662.2009	12+684.07	747132.7254	3931665.2665	25.51	6.94	3.493	15.5986	N63° 42' 49.14"E
C310	12+707.34	747154.7956	3931672.6455	12+699.31	747147.1861	3931670.1013	12+714.14	747157.1641	3931680.3116	15.63	14.83	8.024	54.3442	N44° 20' 27.12"E
C311	12+742.21	747165.4502	3931707.1314	12+737.73	747164.1274	3931702.8498	12+746.60	747168.1966	3931710.6724	24.62	8.87	4.481	20.6288	N27° 28' 59.48"E
C312	12+755.25	747173.4997	3931717.5097	12+751.73	747171.3421	3931714.7279	12+758.75	747175.1997	3931720.5925	45.11	7.03	3.520	8.9245	N33° 20' 07.15"E
C313	12+772.28	747181.7293	3931732.4341	12+768.89	747180.0931	3931729.4669	12+775.62	747184.0962	3931734.8587	25.00	6.74	3.388	15.4369	N36° 35' 29.39"E
C314	12+792.72	747196.0400	3931747.0937	12+786.12	747191.4275	3931742.3688	12+798.40	747202.6017	3931746.3565	13.51	12.28	6.603	52.0999	N70° 21' 35.65"E
C315	12+818.82	747222.8933	3931744.0769	12+815.07	747219.1604	3931744.4963	12+822.55	747226.6276	3931744.4841	33.94	7.48	3.756	12.6321	S89° 54' 22.22"E
C316	12+834.93	747238.9360	3931745.8260	12+829.55	747233.5880	3931745.2430	12+840.20	747244.1681	3931744.5745	31.02	10.65	5.380	19.6746	S86° 23' 05.66"E
C317	12+852.11	747255.7458	3931741.8051	12+846.05	747249.8561	3931743.2139	12+857.47	747260.7751	3931745.1784	13.83	11.42	6.056	47.3026	N79° 48' 03.88"E
C318	12+872.49	747273.2537	3931753.5479	12+866.56	747268.3301	3931750.2456	12+877.91	747279.1357	3931752.8065	15.84	11.35	5.928	41.0347	N76° 40' 01.52"E
C319	12+889.92	747291.0538	3931751.3042	12+885.31	747286.4737	3931751.8815	12+894.39	747295.4439	3931752.7318	20.65	9.08	4.616	25.1992	N84° 35' 05.41"E
C320	12+918.63	747318.4944	3931760.2280	12+911.44	747311.6576	3931758.0046	12+922.53	747320.3809	3931753.2907	6.85	11.09	7.189	92.8019	S61° 36' 49.70"E
C321	12+931.23	747322.6638	3931744.8957	12+924.63	747320.9316	3931751.2655	12+933.01	747316.1710	3931746.0867	4.16	8.39	6.601	115.6070	S42° 35' 26.38"W
C322	12+941.09	747308.2289	3931747.5435	12+937.48	747311.7770	3931746.8926	12+944.61	747304.6840	3931746.8754	19.40	7.13	3.607	21.0666	S89° 5' 39.24"W
C323	12+972.45	747277.3262	3931741.7198	12+967.25	747282.4363	3931742.6828	12+977.41	747273.3959	3931738.3148	19.25	10.16	5.200	30.2308	S64° 12' 43.99"W
C324	12+988.39	747265.0993	3931731.1273	12+985.36	747267.3895	3931733.1114	12+991.21	747262.0784	3931730.8917	9.20	5.85	3.030	36.4434	S67° 19' 06.59"W
C325	13+029.85	747223.5576	3931727.8872	13+025.98	747227.4141	3931728.1880	13+033.58	747219.9814	3931729.3616	16.20	7.59	3.868	26.8642	N81° 01' 39.85"W
C326	13+047.91	747206.7263	3931734.8261	13+039.75	747214.2762	3931731.7136	13+053.97	747201.2607	3931728.7585	11.58	14.22	8.166	70.3927	S77° 12' 28.74"W
C327	13+079.86	747183.9317	3931709.5205	13+066.03	747193.1927	3931719.8017	13+091.81	747186.2157	3931695.8731	28.68	25.78	13.837	51.5121	S16° 15' 19.94"W
C328	13+105.63	747188.4963	3931682.2454	13+102.10	747187.9147	3931685.7204	13+109.06	747187.6770	3931678.8186	17.36	6.95	3.523	22.9466	S1° 58' 21.89"W
C329	13+143.05	747179.7730	3931645.7587	13+135.89	747181.4385	3931652.7249	13+149.74	747174.3359	3931641.0960	22.08	13.85	7.163	35.9386	S31° 24' 55.22"W
C330	13+188.05	747145.2494	3931616.1524	13+182.12	747149.7567	3931620.0177	13+193.88	747139.7327	3931613.9566	35.85	11.77	5.938	18.9114	S58° 50' 25.30"W
C331	13+225.84	747110.0415	3931602.1387	13+214.72	747120.3788	3931606.2532	13+236.03	747099.5141	3931605.7392	30.09	21.31	11.126	40.5854	S88° 35' 19.55"W
C332	13+267.81	747069.4467	3931616.0227	13+255.97	747080.6465	3931612.1922	13+269.76	747072.3469	3931604.5468	6.42	13.79	11.837	123.0645	S47° 20' 57.16"W
C333	13+285.44	747076.1888	3931589.3450	13+278.32	747074.4460	3931596.2411	13+290.38	747069.9049	3931586.0124	9.06	12.06	7.113	76.2443	S23° 56' 20.80"W
C334	13+367.19	747002.0541	3931550.0285	13+362.66	747006.0570	3931552.1514	13+370.50	747002.8180	3931545.5624	6.26	7.84	4.531	71.7671	S26° 10' 39.76"W
C335	13+379.91	747004.4040	3931536.2898	13+371.94	747003.0601	3931544.1471	13+381.88	747010.7733	3931541.0830	4.86	9.95	7.971	117.2569	S68° 20' 03.36"E
C336	13+405.04	747029.2796	3931555.0096	13+399.68	747024.9953	3931551.7855	13+409.97	747034.6344	3931554.7312	14.76	10.29	5.362	39.9383	N73° 00' 23.20"E
C337	13+426.73	747051.3705	3931553.8613	13+421.56	747046.2106	3931554.1295	13+431.26	747054.9741	3931557.5641	11.40	9.70	5.167	48.7539	N68° 35' 55.11"E
C338	13+446.11	747065.3324	3931568.2077	13+441.19	747061.8994	3931564.5802	13+450.66	747070.2148	3931568.8335	14.11	9.47	4.922	38.4741	N63° 27' 31.56"E
C339	13+467.90	747087.3110	3931571.0249	13+462.38	747081.8358	3931570.3231	13+472.99	747091.1336	3931575.0069	15.65	10.61	5.520	38.8657	N63° 15' 46.73"E
C340	13+486.54	747100.5121	3931584.7765	13+479.19	747095.4261	3931579.4783	13+493.05	747107.8559	3931584.6823	16.93	13.86	7.344	46.9042	N67° 16' 56.04"E
C341	13+505.79	747120.5914	3931584.5191	13+501.55	747116.3560	3931584.5734	13+509.88	747124.4322	3931586.3050	18.59	8.33	4.236	25.6720	N77° 53' 53.97"E
C342	13+547.57	747158.6040	3931602.1944	13+541.57	747153.1661	3931599.6659	13+553.23	747164.5390	3931601.3340	20.13	11.66	5.997	33.1865	N81° 39' 20.06"E
C343	13+572.05	747183.1700	3931598.6330	13+564.28	747175.4756	3931599.7485	13+578.29	747187.7985	3931604.8800	13.01	14.02	7.775	61.7134	N67° 23' 31.69"E
C344	13+614.10	747209.1173	3931633.6535	13+609.16	747206.1734	3931629.5802	13+618.92	747210.3106	3931638.4524	24.78	9.76	4.945	22.5713	N25° 14' 59.21"E
C345	13+642.49	747215.9989	3931661.3281	13+635.40	747214.2878	3931654.4469	13+648.10	747222.9219	3931662.8611	11.45	12.70	7.091	63.5495	N45° 44' 19.94"E
C346	13+697.71	747271.3557	3931673.5865	13+690.91	747264.7227	3931672.1177	13+702.12	747273.7676	3931667.2355	7.86	11.20	6.794	81.6907	S61° 38' 27.66"E
C347	13+711.32	747277.0345	3931658.6334	13+703.86	747274.3883	3931665.6014	13+712.82	747269.6884	3931659.8943	4.26	8.96	7.454	120.5351	S39° 28' 18.74"W
C348	13+728.04	747254.6834	3931662.4697	13+721.48	747261.1537	3931661.3592	13+734.23	747248.6880	3931659.7953	21.62	12.75	6.565	33.7797	S82° 50' 58.34"W
C349	13+763.99	747221.5058	3931647.6701	13+756.90	747227.9773	3931650.5569	13+769.97	747220.1651	3931640.7120	13.60	13.06	7.086	55.0537	S38° 25' 58.16"W
C350	13+811.01	747212.3998	3931600.4099	13+797.11	747215.0297	3931614.0593	13+823.99	747202.2524	3931590.9097	42.81	26.88	13.900	35.9807	S28° 53' 46.72"W



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:	
		a	AUG. 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	OSAIC TO ORSOON ROAD	ACCESS ROAD	N.T.S	HORIZONTAL CURVE DATA
		b			DRAWN	IMRAN TARIQ				DATE:	
		c			CHECKED	SHAHZAD DURRANI				AUG. 2024	
					APPROVED	AQEEL YOUNIS				DWG NO: CEC/HRKP/RRDP/CHT-2/ICD-07	

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
C351	13+844.52	747187.2712	3931576.8839	13+837.04	747192.7286	3931581.9933	13+851.34	747179.7995	3931576.6298	19.91	14.30	7.476	41.1652	S67° 28' 09.33"W
C352	13+867.98	747163.1743	3931576.0643	13+864.61	747166.5435	3931576.1789	13+871.30	747159.9951	3931574.9429	21.93	6.69	3.371	17.4814	S79° 18' 40.13"W
C353	13+896.26	747136.4543	3931566.6392	13+883.95	747148.0596	3931570.7328	13+908.24	747127.3132	3931558.4000	61.59	24.29	12.306	22.6000	S59° 16' 13.46"W
C354	13+932.45	747109.3312	3931542.1921	13+927.20	747113.2363	3931545.7119	13+937.56	747104.3457	3931540.5235	25.25	10.37	5.257	23.5249	S59° 43' 58.21"W
C355	13+950.71	747091.8742	3931536.3494	13+944.75	747097.5287	3931538.2419	13+956.44	747087.7609	3931532.0325	24.02	11.69	5.963	27.8793	S57° 33' 20.25"W
C356	13+990.69	747064.1348	3931507.2364	13+982.58	747069.7271	3931513.1057	13+997.65	747056.0723	3931508.0849	16.48	15.07	8.107	52.3919	S69° 48' 42.94"W
C357	14+027.80	747026.0857	3931511.2408	14+018.24	747035.5954	3931510.2400	14+031.15	747028.3236	3931501.9441	6.75	12.91	9.562	109.5429	S41° 14' 11.28"W
C358	14+041.45	747030.7345	3931491.9289	14+031.40	747028.3822	3931501.7008	14+045.52	747039.5544	3931496.7489	7.70	14.12	10.051	105.1208	S66° 05' 43.37"E
C359	14+051.37	747044.6883	3931499.5545	14+045.64	747039.6579	3931496.8054	14+056.87	747050.4208	3931499.5878	22.72	11.23	5.733	28.3223	N75° 30' 19.26"E
C360	14+078.58	747072.1317	3931499.7142	14+067.09	747060.6454	3931499.6473	14+089.01	747080.5673	3931507.5104	29.61	21.91	11.486	42.4109	N68° 27' 39.85"E
C361	14+106.94	747093.7368	3931519.6818	14+095.78	747085.5408	3931512.1069	14+117.86	747104.0650	3931523.9106	61.79	22.08	11.160	20.4781	N57° 29' 40.83"E
C362	14+138.29	747122.9640	3931531.6487	14+127.92	747113.3754	3931527.7227	14+148.59	747131.7090	3931537.2057	116.47	20.67	10.361	10.1676	N62° 38' 59.59"E
C363	14+187.18	747164.2795	3931557.9026	14+174.77	747153.7998	3931551.2433	14+197.64	747175.7205	3931553.0779	23.70	22.87	12.417	55.2995	N85° 12' 56.94"E
C364	14+215.83	747192.4793	3931546.0105	14+205.61	747183.0596	3931549.9829	14+223.38	747199.3321	3931553.5967	14.39	17.78	10.223	70.7734	N77° 28' 44.02"E
C365	14+267.25	747228.7339	3931586.1452	14+256.63	747221.6164	3931578.2660	14+277.78	747233.9770	3931595.3783	96.94	21.15	10.618	12.5017	N35° 50' 28.93"E
C366	14+301.92	747245.8969	3931616.3693	14+283.32	747236.7128	3931600.1961	14+298.58	747248.0437	3931597.8947	6.08	15.26	18.599	143.7815	S78° 31' 07.48"E
C367	14+338.77	747252.6816	3931557.9812	14+330.67	747251.7478	3931566.0173	14+345.86	747259.3466	3931553.3955	17.82	15.19	8.090	48.8430	S31° 02' 58.17"E
C368	14+384.90	747291.5085	3931531.2673	14+377.23	747285.1909	3931535.6139	14+392.42	747298.9276	3931529.3280	43.76	15.18	7.668	19.8801	S65° 24' 39.66"E
C369	14+407.89	747313.8986	3931525.4147	14+399.89	747306.1539	3931527.4391	14+413.34	747317.4835	3931532.5719	9.88	13.45	8.005	78.0434	N65° 37' 38.05"E
C370	14+423.01	747321.8154	3931541.2205	14+416.42	747318.8646	3931535.3293	14+428.07	747328.3918	3931540.8142	9.97	11.64	6.589	66.9290	N60° 04' 12.15"E
C371	14+456.56	747356.8303	3931539.0577	14+451.03	747351.3110	3931539.3986	14+461.76	747361.5804	3931541.8888	17.90	10.73	5.530	34.3295	N76° 22' 11.29"E
C372	14+466.93	747366.0196	3931544.5345	14+462.90	747362.5809	3931542.4731	14+470.80	747370.0382	3931544.7856	16.63	7.90	4.026	27.2191	N72° 48' 52.55"E
C373	14+500.53	747399.7095	3931546.6398	14+494.36	747393.5520	3931546.2550	14+506.69	747405.7946	3931547.6568	119.47	12.33	6.169	5.9123	N83° 28' 04.71"E
C374	14+537.42	747436.1114	3931552.7237	14+527.90	747426.7123	3931551.1528	14+546.72	747445.4196	3931550.6823	49.35	18.83	9.529	21.8583	S88° 33' 32.52"E
C375	14+560.41	747458.7900	3931547.7499	14+555.48	747453.9720	3931548.8066	14+565.23	747463.6661	3931548.4941	26.55	9.75	4.933	21.0477	S88° 09' 13.40"E
C376	14+589.62	747487.7741	3931552.1735	14+584.13	747482.3499	3931551.3456	14+592.85	747488.7722	3931546.7780	5.66	8.72	5.487	88.1974	S54° 34' 43.94"E
C377	14+597.77	747489.6680	3931541.9350	14+593.90	747488.9633	3931545.7451	14+599.91	747485.8364	3931541.3597	3.75	6.01	3.875	91.9404	S35° 29' 24.02"W
C378	14+636.62	747449.5374	3931535.9090	14+632.48	747453.6227	3931536.5224	14+640.68	747445.8501	3931534.0462	25.70	8.19	4.131	18.2618	S72° 19' 45.40"W
C379	14+655.11	747432.9638	3931527.5365	14+647.87	747439.4294	3931530.8027	14+662.00	747425.7416	3931528.0942	25.93	14.13	7.244	31.2177	S78° 48' 26.08"W
C380	14+671.59	747416.1784	3931528.8328	14+666.88	747420.8768	3931528.4699	14+676.21	747411.6223	3931527.6293	27.84	9.34	4.712	19.2120	S84° 48' 36.37"W
C381	14+741.95	747348.0686	3931510.8426	14+733.18	747356.5435	3931513.0811	14+750.34	747341.7201	3931504.7985	34.14	17.16	8.766	28.7973	S60° 48' 19.64"W
C382	14+793.95	747310.1340	3931474.7266	14+785.42	747316.3151	3931480.6113	14+799.39	747303.5473	3931480.1534	9.63	13.97	8.534	83.0784	S87° 56' 45.74"W
C383	14+824.41	747284.2308	3931496.0684	14+819.70	747287.8705	3931493.0696	14+829.01	747279.7154	3931497.4291	23.48	9.31	4.716	22.7149	N61° 52' 19.85"W
C384	14+840.45	747268.7553	3931500.7320	14+836.79	747272.2681	3931499.6734	14+843.68	747267.2117	3931504.0603	8.17	6.90	3.669	48.3482	N49° 03' 19.84"W
C385	14+857.16	747261.5400	3931516.2892	14+853.12	747263.2411	3931512.6214	14+860.62	747257.5870	3931517.1383	8.11	7.50	4.043	52.9957	N51° 22' 45.32"W
C386	14+869.17	747249.2265	3931518.9342	14+863.94	747254.3394	3931517.8359	14+874.34	747244.5684	3931521.3110	39.96	10.40	5.229	14.9102	N70° 25' 19.33"W
C387	14+881.99	747237.7579	3931524.7861	14+877.09	747242.1179	3931522.5614	14+886.05	747233.5405	3931522.3014	8.92	8.95	4.895	57.5383	S88° 15' 49.97"W
C388	14+932.47	747193.5422	3931498.7356	14+929.31	747196.2657	3931500.3402	14+935.43	747190.3908	3931498.9823	10.03	6.12	3.161	34.9818	S76° 59' 08.28"W
C389	14+939.34	747186.4914	3931499.2876	14+937.03	747188.7967	3931499.1071	14+941.58	747184.3236	3931498.4830	10.50	4.55	2.312	24.8398	S82° 03' 23.91"W
C390	14+966.28	747161.1710	3931489.8895	14+962.39	747164.8160	3931491.2424	14+970.15	747157.8327	3931487.8964	42.41	7.75	3.888	10.4750	S64° 23' 57.31"W
C391	14+984.45	747145.5536	3931480.5655	14+980.02	747149.3527	3931482.8337	14+987.03	747147.7382	3931476.7178	4.52	7.00	4.425	88.7486	S14° 47' 14.96"W
C392	14+994.29	747151.3249	3931470.4007	14+987.85	747148.1454	3931476.0007	14+997.00	747156.0069	3931474.8221	5.05	9.15	6.440	103.7739	S81° 28' 25.47"E
C393	15+016.74	747170.3581	3931488.3748	15+006.67	747163.0322	3931481.4565	15+025.11	747180.1403	3931485.9578	18.47	18.45	10.076	57.2396	N75° 15' 32.73"E
C394	15+041.85	747196.3850	3931481.9440	15+034.64	747189.3866	3931483.6731	15+048.27	747202.4933	3931485.7723	17.00	13.64	7.209	45.9558	N80° 54' 03.52"E
C395	15+082.99	747231.9106	3931504.2092	15+069.90	747220.8196	3931497.2580	15+090.81	747239.3859	3931493.4645	13.73	20.91	13.089	87.2496	S78° 27' 07.56"E
C396	15+116.65	747254.1401	3931472.2575	15+109.84	747250.2529	3931477.8448	15+123.05	747260.4909	3931469.8089	22.20	13.21	6.807	34.0880	S51° 52' 16.60"E
C397	15+136.52	747273.0609	3931464.9624	15+131.75	747268.6028	3931466.6812	15+139.01	747270.9722	3931460.6651	4.39	7.27	4.778	94.8371	S21° 29' 48.14"E
C398	15+149.40	747266.4328	3931451.3256	15+140.47	747270.3373	3931459.3588	15+152.98	747259.7301	3931457.2291	6.80	12.51	8.932	105.4503	S78° 38' 49.23"W
C399	15+197.89	747226.0295	3931486.9110	15+183.79	747236.6043	3931477.5972	15+206.05	747216.5516	3931476.4831	14.31	22.26	14.092	89.1044	S86° 49' 11.76"W
C400	15+230.97	747199.7952	3931458.0472	15+223.09	747205.0953	3931463.8786	15+238.13	747191.9530	3931457.2761	20.47	15.04	7.880	42.1163	S63° 19' 33.07"W

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

*[Handwritten Signature]*



CLIENT: <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: (MIN - JV - CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
	MINCONSULT SDN BHD (COMPANY NO. 5835-F) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED: TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	N.T.S	HORIZONTAL CURVE DATA
		a			DRAWN: IMRAN TARIQ			DATE:	
		b			CHECKED: SHAHZAD DURRANI			AUG, 2024	
	c			APPROVED: AGEEL YOUNIS	DWG NO: CEC/HRP/RRDP/CHT-2/ HCD-08				

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	15+262.32	747167.8803	3931454.9090	15+259.40	747170.7839	3931455.1945	15+265.16	747165.2985	3931453.5538	14.97	5.76	2.918	22.0609	S73° 21' 12.67"W
C402	15+275.86	747155.8278	3931448.5874	15+270.54	747160.5403	3931451.0592	15+281.10	747152.0710	3931444.8186	34.75	10.56	5.321	17.4148	S53° 36' 56.40"W
C403	15+298.33	747139.9078	3931432.6164	15+291.93	747144.4212	3931437.1443	15+304.01	747133.5170	3931432.7869	14.84	12.07	6.393	46.6200	S68° 13' 05.79"W
C404	15+322.28	747115.2450	3931433.2744	15+310.90	747126.6229	3931432.9709	15+325.09	747120.1969	3931423.0262	6.93	14.19	11.382	117.3175	S32° 52' 10.27"W
C405	15+332.59	747123.4569	3931416.2792	15+325.63	747120.4280	3931422.5478	15+336.71	747129.8340	3931419.0724	7.23	11.08	6.962	87.8640	S69° 43' 16.39"E
C406	15+354.89	747146.4922	3931426.3686	15+349.77	747141.8015	3931424.3141	15+359.98	747150.6572	3931429.3481	49.03	10.20	5.121	11.9262	N60° 23' 01.28"E
C407	15+374.88	747162.7806	3931438.0210	15+370.95	747159.5795	3931435.7310	15+378.63	747166.7018	3931438.3605	14.37	7.68	3.936	30.6315	N69° 44' 10.74"E
C408	15+390.55	747178.5730	3931439.3882	15+388.35	747176.3835	3931439.1987	15+392.73	747180.6959	3931439.9569	25.00	4.38	2.198	10.0478	N80° 01' 41.35"E
C409	15+402.81	747190.4246	3931442.5629	15+399.99	747187.7053	3931441.8345	15+405.55	747193.2131	3931442.1753	13.89	5.56	2.815	22.9095	N86° 27' 32.38"E
C410	15+415.02	747202.5971	3931440.8709	15+412.30	747199.9050	3931441.2451	15+417.61	747205.1083	3931441.9109	10.00	5.31	2.718	30.4111	N82° 42' 29.34"E
C411	15+438.35	747224.2692	3931449.8466	15+432.69	747219.0448	3931447.6829	15+442.32	747227.6818	3931445.3378	7.32	9.63	5.655	75.3752	S74° 48' 35.39"E
C412	15+454.64	747235.1148	3931435.5176	15+444.28	747228.8620	3931443.7786	15+456.01	747224.7598	3931435.1787	5.36	11.73	10.361	125.2476	S25° 30' 05.71"W
C413	15+464.79	747215.9806	3931434.8914	15+461.78	747218.9912	3931434.9899	15+467.77	747213.0766	3931434.0910	25.39	6.00	3.012	13.5340	S81° 21' 30.27"W
C414	15+513.27	747169.2126	3931422.0018	15+507.67	747174.6129	3931423.4902	15+518.80	747164.4505	3931419.0519	38.95	11.13	5.602	16.3672	S66° 24' 28.03"W
C415	15+541.10	747145.4884	3931407.3060	15+535.19	747150.5136	3931410.4188	15+545.28	747147.1821	3931401.6427	7.72	10.09	5.911	74.8744	S20° 47' 13.01"W
C416	15+554.71	747149.8845	3931392.6067	15+545.33	747147.1956	3931401.5976	15+557.51	747157.0473	3931398.6698	6.14	12.18	9.384	113.5967	S73° 26' 55.06"E
C417	15+583.91	747177.2030	3931415.7311	15+567.29	747164.5153	3931404.9913	15+598.85	747193.7816	3931414.5181	40.70	31.56	16.623	44.4316	N71° 58' 07.79"E
C418	15+625.42	747220.2736	3931412.5798	15+618.63	747213.5040	3931413.0751	15+632.15	747226.7633	3931410.5908	60.25	13.52	6.788	12.8552	S79° 23' 15.88"E
C419	15+652.16	747245.8934	3931404.7275	15+644.32	747238.4058	3931407.0224	15+656.22	747242.9581	3931397.4671	7.18	11.90	7.831	94.9725	S25° 28' 26.07"E
C420	15+665.77	747239.3807	3931388.6180	15+656.77	747242.7554	3931396.9656	15+667.42	747234.0601	3931395.8818	5.02	10.66	9.004	121.7660	S82° 53' 43.08"W
C421	15+676.10	747228.9360	3931402.8775	15+670.84	747232.0385	3931398.6417	15+680.43	747223.6998	3931402.4898	9.47	9.59	5.250	58.0123	N65° 13' 40.35"W
C422	15+699.27	747204.9542	3931401.1020	15+692.60	747211.5621	3931401.5912	15+705.78	747198.6890	3931398.9451	51.15	13.18	6.626	14.7634	S78° 23' 03.46"W
C423	15+729.97	747175.8186	3931391.0713	15+721.89	747183.4547	3931393.7003	15+736.75	747173.6864	3931383.2819	15.29	14.86	8.076	55.6940	S43° 09' 20.18"W
C424	15+746.05	747171.2327	3931374.3182	15+742.58	747172.1491	3931377.6658	15+749.44	747169.1798	3931371.5197	18.77	6.86	3.471	20.9549	S25° 47' 09.84"W
C425	15+758.56	747163.7841	3931364.1646	15+756.90	747164.7705	3931365.5092	15+760.22	747163.0985	3931362.6445	15.88	3.32	1.668	11.9870	S30° 16' 12.20"W
C426	15+780.98	747154.5620	3931343.7176	15+773.16	747157.7783	3931350.8485	15+787.80	747147.0335	3931341.5926	16.79	14.64	7.823	49.9613	S49° 15' 25.94"W
C427	15+802.25	747133.1261	3931337.6671	15+798.33	747136.8965	3931338.7314	15+805.76	747131.2257	3931334.2411	9.41	7.42	3.918	45.2208	S51° 37' 38.80"W
C428	15+846.93	747111.2539	3931298.2364	15+814.76	747126.8571	3931326.3656	15+826.55	747133.3867	3931321.5784	4.08	11.79	32.167	165.5403	S53° 45' 11.09"E
C429	15+840.73	747143.1380	3931331.8625	15+836.04	747139.9113	3931328.4595	15+845.10	747147.7557	3931332.6800	14.23	9.06	4.690	36.4833	N61° 43' 06.41"E
C430	15+858.22	747160.6814	3931334.9684	15+854.47	747156.9885	3931334.3146	15+861.68	747163.1272	3931337.8114	10.52	7.20	3.750	39.2547	N60° 19' 57.97"E
C431	15+912.91	747196.5427	3931376.6531	15+900.61	747188.5164	3931367.3235	15+923.25	747208.7727	3931375.2774	23.29	22.64	12.307	55.7125	N68° 33' 42.07"E
C432	15+934.65	747220.0964	3931374.0037	15+924.66	747210.1724	3931375.1200	15+942.70	747223.8973	3931364.7687	16.88	18.04	9.987	61.2110	S52° 58' 35.60"E
C433	15+966.60	747232.9960	3931342.6618	15+959.44	747230.2717	3931349.2810	15+973.21	747239.2674	3931339.2113	20.32	13.76	7.158	38.8094	S41° 46' 32.76"E
C434	15+984.42	747249.0874	3931333.8084	15+981.91	747246.8894	3931335.0177	15+986.86	747250.6666	3931331.8591	12.81	4.95	2.509	22.1689	S50° 05' 45.81"E
C435	16+007.08	747263.3923	3931316.1506	15+997.34	747257.2607	3931323.7194	16+013.92	747272.2604	3931320.1805	12.60	16.58	9.741	75.4266	S76° 43' 29.75"E
C436	16+045.54	747301.0451	3931333.2609	16+041.00	747296.9155	3931331.3844	16+050.05	747305.4466	3931334.3571	49.58	9.05	4.536	10.4539	N70° 47' 19.34"E
C437	16+065.41	747320.3472	3931338.0679	16+060.81	747315.8916	3931336.9583	16+069.92	747324.9276	3931337.7453	28.97	9.11	4.592	18.0128	N85° 01' 19.43"E
C438	16+098.01	747352.9448	3931335.7722	16+089.70	747344.6589	3931336.3557	16+106.20	747361.0585	3931337.5516	57.65	16.50	8.306	16.3984	N85° 49' 45.47"E
C439	16+118.17	747372.7457	3931340.1148	16+112.73	747367.4330	3931338.9496	16+123.24	747377.7143	3931337.9021	16.55	10.51	5.439	36.3749	S84° 10' 56.79"E
C440	16+194.51	747442.8254	3931308.9060	16+180.22	747429.7683	3931314.7207	16+207.93	747456.8775	3931311.5211	45.97	27.72	14.293	34.5472	S83° 16' 07.03"E
C441	16+225.52	747474.1678	3931314.7388	16+217.62	747466.3989	3931313.2930	16+233.01	747481.5219	3931311.8467	27.55	15.39	7.902	32.0102	S84° 32' 13.79"E
C442	16+255.94	747502.8594	3931303.4555	16+248.35	747495.7925	3931306.2346	16+262.37	747509.2281	3931307.5914	14.75	14.03	7.594	54.4682	N84° 14' 01.75"E
C443	16+285.24	747528.4076	3931320.0468	16+278.76	747522.9733	3931316.5177	16+290.67	747534.3658	3931317.5001	12.15	11.91	6.480	56.1436	N85° 04' 17.45"E
C444	16+326.74	747567.5328	3931303.3235	16+321.56	747562.7779	3931305.3559	16+329.63	747565.4125	3931298.6072	5.08	8.07	5.171	91.0631	S21° 19' 30.49"E
C445	16+335.79	747562.8895	3931292.9950	16+330.47	747565.0687	3931297.8423	16+338.57	747558.2295	3931295.5503	4.91	8.10	5.315	94.5318	S71° 28' 20.45"W
C446	16+369.60	747531.0221	3931310.4696	16+357.63	747541.5206	3931304.7127	16+379.06	747521.2069	3931303.6124	19.28	21.43	11.973	63.6772	S86° 53' 58.77"W
C447	16+401.21	747503.0443	3931290.9236	16+393.85	747509.0842	3931295.1433	16+407.60	747495.9631	3931292.9592	15.46	13.75	7.368	50.9769	S80° 32' 58.14"W
C448	16+429.40	747475.0121	3931298.9818	16+423.12	747481.0389	3931297.2493	16+435.23	747469.1553	3931296.7409	18.75	12.10	6.271	36.9757	S87° 33' 00.26"W
C449	16+454.41	747451.2379	3931289.8854	16+450.11	747455.2551	3931291.4224	16+458.48	747447.0281	3931290.7675	14.63	8.37	4.301	32.7728	S85° 26' 55.02"W
C450	16+464.40	747441.2346	3931291.9815	16+461.71	747443.8678	3931291.4298	16+466.99	747438.6274	3931291.3177	11.60	5.29	2.690	26.1192	S88° 46' 31.54"W

*[Handwritten signature]*

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

*[Handwritten signature]*



<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:	
		a	AUG. 2024.	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD	ACCESS ROAD		N.T.S
		b			DRAWN	IMRAN TARIQ					DATE:
		c			CHECKED	SHAHZAD DURRANI					AUG, 2024.
			APPROVED	AGEEL YOUNIS	DWG NO: CECARWKP-RRDP-N-CHT-2/ 1/CD-08						

Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	P Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C451	16+491.73	747414.6568	3931285.2148	16+486.45	747419.7759	3931286.5181	16+496.83	747409.4802	3931286.2667	23.09	10.39	5.282	25.7710	S88° 36' 04.88"W
C452	16+529.92	747377.0529	3931292.8564	16+521.67	747385.1430	3931291.2124	16+537.86	747369.1220	3931290.5643	33.60	16.19	8.255	27.6067	S87° 41' 00.63"W
C453	16+557.44	747350.3114	3931285.1278	16+554.29	747353.3335	3931286.0012	16+560.58	747347.2165	3931284.5643	82.08	6.29	3.146	5.8013	S76° 46' 50.86"W
C454	16+600.25	747308.1844	3931277.4580	16+589.25	747319.0083	3931279.4286	16+611.06	747298.5575	3931272.1323	67.06	21.81	11.002	18.6330	S70° 21' 53.85"W
C455	16+632.71	747279.6099	3931261.6504	16+627.11	747284.5155	3931264.3642	16+637.30	747274.7687	3931264.4775	9.86	10.20	5.606	59.2354	N89° 20' 01.83"W
C456	16+645.25	747267.9051	3931268.4857	16+642.16	747270.5705	3931266.9292	16+648.18	747264.8192	3931268.4200	10.94	6.02	3.087	31.5042	N75° 28' 05.65"W
C457	16+659.46	747253.5419	3931268.1798	16+655.33	747257.6758	3931268.2678	16+663.45	747249.8035	3931269.9466	17.55	8.12	4.135	26.5168	N77° 57' 42.95"W
C458	16+681.78	747233.2315	3931277.7789	16+677.16	747237.4096	3931275.8042	16+686.34	747229.7320	3931280.7973	34.00	9.19	4.621	15.4822	N56° 57' 44.81"W
C459	16+704.93	747215.6567	3931292.9376	16+695.04	747223.1453	3931286.4785	16+707.12	747213.6669	3931283.2505	5.81	12.07	9.889	119.1714	S71° 11' 34.63"W
C460	16+714.49	747212.1835	3931276.0284	16+707.24	747213.6420	3931283.1291	16+718.21	747219.3928	3931275.2713	6.57	10.97	7.249	95.6121	S36° 11' 55.59"E
C461	16+723.70	747224.8516	3931274.6980	16+722.11	747223.2753	3931274.8636	16+725.21	747226.1489	3931273.7874	6.11	3.10	1.585	29.0697	S69° 28' 11.86"E
C462	16+755.64	747251.0538	3931256.3068	16+751.79	747247.9084	3931258.5160	16+759.34	747254.8637	3931255.7863	15.84	7.54	3.845	27.2860	S68° 34' 41.28"E
C463	16+763.72	747259.2049	3931255.1933	16+761.45	747256.9589	3931255.5001	16+765.82	747260.7865	3931253.5695	6.59	4.37	2.267	37.9745	S63° 14' 02.00"E
C464	16+793.71	747280.2437	3931233.5938	16+784.67	747273.9410	3931240.0645	16+799.28	747287.2138	3931239.3395	9.81	14.60	9.033	85.2540	S86° 52' 25.06"E
C465	16+813.77	747298.3957	3931248.5574	16+808.51	747294.3395	3931245.2137	16+818.65	747303.6485	3931248.7565	15.56	10.14	5.257	37.3301	N69° 09' 52.01"E
C466	16+841.69	747326.6702	3931249.6290	16+833.84	747318.8293	3931249.3318	16+849.40	747334.2116	3931247.4618	48.98	15.56	7.847	18.2040	S83° 04' 06.48"E
C467	16+863.10	747347.3753	3931243.6788	16+858.24	747342.7045	3931245.0211	16+867.65	747351.9721	3931245.2563	15.43	9.42	4.860	34.9750	N88° 32' 45.83"E
C468	16+882.78	747366.2782	3931250.1659	16+876.46	747360.2978	3931248.1136	16+888.92	747372.5778	3931249.6256	29.95	12.46	6.323	23.8434	N82° 58' 48.96"E
C469	16+907.02	747390.6162	3931248.0786	16+903.52	747387.1278	3931248.3778	16+910.49	747393.9122	3931246.8977	26.94	6.96	3.501	14.8098	S77° 41' 35.35"E
C470	16+919.00	747401.9247	3931244.0269	16+915.93	747399.0333	3931245.0629	16+922.05	747404.9486	3931243.4892	36.47	6.13	3.071	9.6277	S75° 06' 07.57"E
C471	16+954.38	747436.7795	3931237.8284	16+944.16	747426.7179	3931239.6177	16+964.49	747446.9691	3931238.6090	80.53	20.33	10.219	14.4650	S87° 08' 54.44"E
C472	16+995.15	747477.5320	3931240.9505	16+988.74	747470.7443	3931240.4305	16+998.19	747476.6853	3931234.1958	5.56	9.85	6.808	101.5253	S77° 37' 05.96"E
C473	17+002.90	747476.0993	3931229.5202	16+998.67	747476.6252	3931233.7161	17+005.57	747471.8711	3931229.5839	4.72	6.90	4.229	83.7175	S49° 00' 10.99"W
C474	17+019.42	747458.0231	3931229.7922	17+016.63	747460.8131	3931229.7502	17+022.20	747455.2475	3931229.5071	47.48	5.57	2.790	6.7263	S87° 29' 55.13"W
C475	17+046.92	747430.6589	3931226.9815	17+044.05	747433.5165	3931227.2750	17+049.79	747427.7941	3931226.7702	200.00	5.74	2.873	1.6458	S84° 57' 30.21"W
C476	17+084.81	747392.8775	3931224.1946	17+077.20	747400.4657	3931224.7543	17+092.33	747385.3979	3931225.5903	58.63	15.13	7.609	14.7886	N86° 49' 27.87"W
C477	17+106.83	747371.1423	3931228.2504	17+099.11	747378.7299	3931226.8345	17+113.98	747364.2840	3931224.7093	22.49	14.87	7.719	37.8782	S81° 37' 50.99"W
C478	17+133.89	747346.5954	3931215.5763	17+126.06	747353.5549	3931219.1696	17+140.87	747339.1767	3931218.0878	18.45	14.81	7.832	46.0111	S85° 41' 50.29"W
C479	17+153.43	747327.2803	3931222.1152	17+148.37	747332.0793	3931220.4905	17+157.94	747322.7847	3931219.7786	11.89	9.58	5.067	46.1665	S85° 37' 10.52"W
C480	17+176.48	747306.3406	3931211.2315	17+174.75	747307.8741	3931212.0286	17+178.20	747304.8525	3931210.3525	63.75	3.46	1.728	3.1056	S60° 59' 00.67"W
C481	17+216.93	747271.5072	3931190.6563	17+201.24	747285.0167	3931198.6360	17+228.61	747259.4007	3931200.6369	22.38	27.37	15.690	70.0714	N85° 32' 00.91"W
C482	17+254.91	747239.1069	3931217.3671	17+242.36	747248.7929	3931209.3820	17+260.70	747232.9845	3931206.4082	10.48	18.34	12.553	100.3113	S79° 20' 47.36"W
C483	17+319.56	747204.2747	3931155.0189	17+305.74	747211.0172	3931167.0878	17+326.81	747192.7776	3931162.6958	12.77	21.07	13.825	94.5412	S76° 27' 41.24"W
C484	17+349.65	747173.7806	3931175.3806	17+336.98	747184.3225	3931168.3415	17+359.79	747162.6335	3931169.3457	21.03	22.81	12.676	62.1626	N87° 20' 57.39"W
C485	17+387.78	747138.0245	3931156.0226	17+381.72	747143.3503	3931158.9060	17+393.75	747133.6999	3931151.7827	43.09	12.03	6.056	16.0028	S53° 34' 04.78"W
C486	17+426.32	747110.4451	3931128.9833	17+415.19	747118.3955	3931136.7781	17+436.66	747099.3970	3931127.6023	32.98	21.48	11.134	37.3081	S64° 13' 14.27"W
C487	17+465.80	747070.4783	3931123.9873	17+459.69	747076.5497	3931124.7462	17+468.94	747071.8239	3931118.0184	5.55	9.26	6.119	95.5786	S35° 05' 07.34"W
C488	17+475.61	747073.2894	3931111.5178	17+469.60	747071.9689	3931117.3753	17+478.97	747079.1213	3931112.9471	5.89	9.37	6.005	91.0673	S58° 14' 15.34"E
C489	17+517.64	747116.6761	3931122.1515	17+513.09	747112.2601	3931121.0892	17+522.10	747120.4800	3931124.6421	26.54	9.01	4.547	19.4433	N66° 30' 25.54"E
C490	17+582.90	747171.3498	3931157.9489	17+572.82	747162.9193	3931152.4290	17+590.43	747179.4588	3931151.9665	14.49	17.61	10.077	69.6326	S88° 23' 53.68"E
C491	17+618.64	747202.1571	3931135.2208	17+606.50	747192.3902	3931142.4263	17+628.64	747213.4116	3931139.7650	21.71	22.14	12.137	58.4054	S82° 47' 04.71"E
C492	17+643.29	747226.9953	3931145.2497	17+636.47	747220.6770	3931142.6986	17+649.48	747229.9674	3931151.3811	17.68	13.01	6.814	42.1518	N46° 56' 12.28"E
C493	17+675.54	747241.3345	3931174.8315	17+660.35	747234.7062	3931161.1573	17+678.20	747249.3356	3931161.9125	8.36	17.85	15.196	122.3681	N87° 02' 41.49"E
C494	17+707.04	747264.5202	3931137.3946	17+694.12	747257.7190	3931148.3762	17+714.14	747275.2428	3931144.5971	12.45	20.01	12.917	92.1185	S77° 49' 49.29"E
C495	17+728.19	747286.9104	3931152.4343	17+721.58	747281.4237	3931148.7489	17+734.45	747293.5172	3931152.6218	22.85	12.87	6.610	32.2639	N72° 14' 32.36"E
C496	17+750.64	747309.6979	3931153.0811	17+745.83	747304.8890	3931152.9446	17+755.26	747313.8850	3931155.4503	19.38	9.43	4.811	27.8770	N74° 26' 08.73"E
C497	17+772.98	747329.3140	3931164.1805	17+765.04	747322.3982	3931160.2673	17+778.31	747334.4386	3931158.1076	9.58	13.27	7.946	79.3435	S79° 49' 51.46"E
C498	17+809.55	747354.5870	3931134.2308	17+784.05	747338.1461	3931153.7140	17+794.22	747333.4519	3931148.4858	3.55	10.16	25.493	164.1577	S41° 55' 10.81"W
C499	17+803.83	747325.4789	3931153.9633	17+796.83	747331.2874	3931149.9457	17+809.28	747319.5059	3931150.2015	10.89	12.45	7.006	65.5095	N88° 45' 22.48"W
C500	17+823.73	747307.1891	3931142.6505	17+818.79	747311.3971	3931145.2303	17+828.61	747302.4546	3931141.2553	37.26	9.81	4.936	15.0919	S66° 02' 05.73"W

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:	
		a	AUG. 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD	ACCESS ROAD	N.T.S	HORIZONTAL CURVE DATA
		b			DRAWN	IMRAN TARO				DATE:	
		c			CHECKED	SHAHZAD DURRANI				AUG. 2024	
			APPROVED	AQEEL YOUNIS	DWG NO: CEC/WRK/RRDP-N-CHT-3/ HCD-10						

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
C501	17+842.35	747289.2718	3931137.3707	17+839.29	747292.2071	3931138.2356	17+845.30	747287.0137	3931135.3056	13.24	6.01	3.060	26.0245	S60° 34' 07.00"W
C502	17+858.90	747276.9787	3931126.1283	17+852.12	747281.9852	3931130.7069	17+864.94	747270.2090	3931126.5758	15.90	12.82	6.784	46.2261	S70° 40' 09.81"W
C503	17+882.49	747252.7001	3931127.7334	17+875.96	747259.2149	3931127.3027	17+888.42	747247.5837	3931123.6773	16.93	12.46	6.529	42.1885	S72° 41' 17.38"W
C504	17+902.68	747236.4121	3931114.8208	17+898.63	747239.5855	3931117.3366	17+906.51	747232.3860	3931114.3845	14.02	7.88	4.050	32.2203	S87° 42' 14.61"W
C505	17+926.05	747212.9640	3931112.2794	17+917.65	747221.3159	3931113.1847	17+933.82	747206.9835	3931106.3796	24.11	16.17	8.401	38.4254	S84° 36' 05.51"W
C506	17+945.32	747198.7927	3931098.2992	17+938.20	747203.8627	3931103.3008	17+950.17	747192.8479	3931102.2210	8.79	11.97	7.122	78.0236	S84° 24' 02.30"W
C507	17+964.63	747180.7815	3931110.1810	17+954.14	747189.5381	3931104.4044	17+972.61	747172.1295	3931104.2491	15.60	18.47	10.490	67.8474	S89° 29' 19.51"W
C508	17+992.32	747155.8715	3931093.1024	17+989.82	747157.9349	3931094.5171	17+994.79	747153.4909	3931092.3329	17.23	4.97	2.502	16.5221	S63° 49' 33.93"W
C509	18+001.23	747147.3542	3931090.3493	17+998.74	747149.7235	3931091.1151	18+003.65	747145.4958	3931088.6921	11.81	4.91	2.490	23.8113	S60° 10' 53.21"W
C510	18+019.95	747133.3304	3931077.8439	18+016.02	747136.2620	3931080.4580	18+023.51	747129.4032	3931077.9100	10.05	7.49	3.928	42.6889	S69° 37' 12.89"W
C511	18+030.88	747122.0399	3931078.0340	18+028.40	747124.5203	3931077.9923	18+033.22	747119.9426	3931076.7090	8.31	4.82	2.481	33.2493	S74° 20' 24.21"W
C512	18+048.82	747106.7509	3931068.3745	18+043.83	747110.9707	3931071.0405	18+053.33	747101.8520	3931069.3305	12.57	9.50	4.991	43.3269	S79° 22' 43.85"W
C513	18+060.00	747095.3053	3931070.6081	18+056.89	747094.3579	3931070.0124	18+062.53	747093.2713	3931068.2551	5.37	5.64	3.110	60.2008	S70° 56' 30.80"W
C514	18+081.14	747081.1007	3931054.1760	18+075.28	747084.9336	3931058.6099	18+086.76	747075.6183	3931052.1035	23.12	11.48	5.861	28.4509	S55° 04' 01.00"W
C515	18+094.34	747068.5271	3931048.4229	18+090.62	747072.0106	3931050.7397	18+097.99	747065.6854	3931047.0157	21.61	7.38	3.724	19.5600	S59° 30' 44.61"W
C516	18+117.13	747051.0822	3931034.6455	18+113.76	747053.6548	3931036.8247	18+120.50	747048.6706	3931032.2895	95.02	6.74	3.371	4.0641	S47° 42' 01.17"W
C517	18+161.67	747019.2229	3931003.5208	18+155.80	747023.4173	3931007.6185	18+166.89	747013.3626	3931003.7260	13.70	11.08	5.864	46.3369	S68° 50' 12.23"W
C518	18+178.79	747001.4652	3931004.1425	18+171.08	747009.1710	3931003.8727	18+185.55	746996.2093	3930998.5009	16.91	14.47	7.711	49.0325	S67° 29' 20.15"W
C519	18+206.65	746981.8243	3930983.0601	18+202.84	746984.4247	3930985.8513	18+210.44	746978.7396	3930980.8156	39.67	7.61	3.815	10.9861	S48° 27' 56.55"W
C520	18+247.09	746949.1091	3930959.2551	18+244.61	746951.1126	3930960.7130	18+249.54	746946.8308	3930958.2811	21.93	4.93	2.478	12.8936	S60° 24' 19.97"W
C521	18+272.57	746925.6603	3930949.2303	18+264.19	746933.3655	3930952.5244	18+275.60	746931.2429	3930942.9808	6.02	11.41	8.380	108.6257	S12° 32' 22.16"W
C522	18+281.70	746935.3049	3930938.4334	18+275.90	746931.4455	3930942.7539	18+285.11	746939.7547	3930942.1429	5.99	9.21	5.793	88.0428	S85° 47' 41.16"E
C523	18+294.09	746946.6493	3930947.8906	18+292.59	746945.4939	3930946.9274	18+295.58	746947.9792	3930948.5935	14.36	3.00	1.504	11.9581	N56° 09' 46.46"E
C524	18+320.17	746969.7156	3930960.0819	18+315.68	746965.7480	3930957.9849	18+324.62	746974.0591	3930961.2100	38.49	8.93	4.488	13.2999	N68° 47' 30.88"E
C525	18+342.83	746991.6851	3930965.7874	18+337.41	746986.4381	3930964.4248	18+348.11	746996.0257	3930969.0351	27.57	10.71	5.421	22.2460	N64° 19' 07.86"E
C526	18+360.02	747005.5620	3930976.1703	18+355.36	747001.8300	3930973.3780	18+364.31	747010.2180	3930975.9536	12.99	8.95	4.661	39.4686	N72° 55' 48.43"E
C527	18+376.57	747022.4592	3930975.3840	18+373.01	747018.9114	3930975.5491	18+379.84	747025.3258	3930977.4806	10.07	6.83	3.552	38.8450	N73° 14' 30.76"E
C528	18+417.19	747055.4704	3930999.5274	18+414.11	747052.9866	3930997.7109	18+420.16	747058.4996	3931000.0688	13.30	6.05	3.077	26.0473	N66° 50' 34.77"E
C529	18+427.79	747066.0086	3931001.4109	18+425.60	747063.8557	3931001.0261	18+429.80	747067.4250	3931003.0774	6.09	4.20	2.187	39.5044	N60° 06' 51.89"E
C530	18+441.14	747074.7651	3931011.7135	18+435.72	747071.2593	3931007.5887	18+444.38	747079.0623	3931008.4214	5.70	8.66	5.413	87.0937	N83° 54' 32.60"E
C531	18+452.69	747085.6572	3931003.3690	18+445.70	747080.1069	3931007.6211	18+454.47	747079.3601	3931000.3304	4.30	8.77	6.992	116.7851	S5° 50' 54.52"W
C532	18+472.03	747063.5378	3930992.6956	18+469.77	747065.5717	3930993.6771	18+474.24	747062.0072	3930991.0350	11.85	4.46	2.258	21.5747	S53° 27' 13.33"W
C533	18+513.35	747035.5017	3930962.2774	18+507.89	747039.2006	3930966.2906	18+518.75	747030.9637	3930959.2452	45.83	10.86	5.458	13.5839	S49° 27' 29.96"W
C534	18+534.82	747017.6048	3930950.3192	18+532.20	747019.7830	3930951.7746	18+537.41	747015.1319	3930949.4548	20.62	5.21	2.620	14.4833	S63° 29' 31.00"W
C535	18+546.21	747006.8229	3930946.5505	18+543.46	747009.4218	3930947.4590	18+548.93	747004.5631	3930944.9780	20.14	5.47	2.753	15.5677	S62° 56' 59.18"W
C536	18+558.92	746996.3687	3930939.2755	18+555.89	746998.8529	3930941.0043	18+561.70	746993.3537	3930939.5410	8.35	5.81	3.027	39.8680	S75° 05' 59.80"W
C537	18+574.82	746980.2774	3930940.6929	18+569.17	746985.9082	3930940.1969	18+579.04	746977.8634	3930935.5817	8.11	9.87	5.653	69.7521	S60° 09' 28.37"W
C538	18+596.22	746970.5267	3930920.0482	18+590.95	746972.7791	3930924.8169	18+601.02	746965.6630	3930918.0089	13.75	10.07	5.274	41.9705	S46° 16' 01.47"W
C539	18+608.39	746958.8683	3930915.1599	18+605.29	746961.7245	3930916.3575	18+611.14	746957.7890	3930912.2569	7.15	5.85	3.097	46.8573	S43° 49' 25.37"W
C540	18+640.44	746947.5770	3930884.7907	18+627.19	746952.1955	3930897.2126	18+648.44	746934.9073	3930888.6782	14.05	21.25	13.253	86.6631	S63° 43' 35.79"W
C541	18+663.43	746920.5778	3930893.0751	18+655.32	746928.3294	3930890.6966	18+670.10	746914.5032	3930887.7047	14.47	14.78	8.108	58.5372	S77° 47' 22.33"W
C542	18+698.10	746893.5223	3930869.1560	18+687.56	746901.4220	3930876.1399	18+706.16	746884.0403	3930873.7681	15.81	18.60	10.544	67.4173	S82° 13' 46.44"W
C543	18+713.29	746877.6267	3930876.8876	18+708.54	746881.8974	3930874.8104	18+717.86	746872.8784	3930876.8039	19.82	9.32	4.749	26.9480	N77° 32' 08.98"W
C544	18+737.67	746853.0740	3930876.4549	18+731.17	746859.5684	3930876.5693	18+744.01	746846.9811	3930878.7058	34.56	12.84	6.495	21.2863	N80° 22' 00.16"W
C545	18+749.58	746841.7583	3930880.6354	18+745.81	746845.2925	3930879.3297	18+753.26	746837.9921	3930880.5283	19.47	7.44	3.768	21.9043	N80° 40' 32.60"W
C546	18+763.31	746827.9466	3930880.2428	18+759.54	746831.7143	3930880.3499	18+766.58	746825.4669	3930883.0816	7.99	7.04	3.769	50.4906	N66° 22' 57.18"W
C547	18+805.30	746799.9961	3930912.2410	18+797.43	746805.1758	3930906.3113	18+812.78	746792.4875	3930914.6098	28.05	15.35	7.873	31.3539	N56° 48' 51.00"W
C548	18+826.61	746779.2972	3930918.7709	18+821.21	746784.4421	3930917.1478	18+830.65	746779.0153	3930924.1584	7.78	9.43	5.395	69.4958	N37° 44' 35.52"W
C549	18+849.41	746778.0349	3930942.8953	18+843.30	746778.3540	3930936.7961	18+854.06	746772.2674	3930944.9051	9.09	10.76	6.108	67.7930	N36° 53' 30.44"W
C550	18+872.33	746755.0090	3930950.9191	18+866.31	746760.7007	3930948.9357	18+877.96	746751.5897	3930955.8828	18.43	11.65	6.027	36.2273	N52° 40' 28.64"W

*[Handwritten signature]*

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

*[Handwritten signature]*



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 38835-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	TANZEEL			KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)		N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	N.T.S
		b			DRAWN	IMRAN TARIQ						DATE:
		c			CHECKED	SHAHZAD DURRANI						AUG. 2024
			APPROVED	AQEEL YOUNIS	DWG NO: CEC/RWP/RRDP-NCHT-2/ HCB-11							



Curve #	PI Station	PI Easting	PI Northing	PC Station	PC Easting	PC Northing	PT Station	P Easting	PT Northing	Radius	Length	Tangent Length	Delta Angle	Chord Direction
C601	19+991.12	745831.1904	3930989.8403	19+985.42	745835.8982	3930993.3280	19+996.63	745825.8259	3930988.6075	25.46	11.21	5.699	25.2374	S64° 53' 20.80"W
C602	20+030.45	745792.6137	3930981.2936	20+023.68	745799.2216	3930982.7576	20+036.68	745786.5654	3930984.3312	19.03	13.01	6.768	39.1597	N82° 54' 44.43"W
C603	20+049.47	745775.1376	3930990.0707	20+042.38	745781.4753	3930986.8877	20+055.09	745768.4527	3930985.8304	11.49	12.71	7.092	63.3860	S84° 58' 28.09"W
C604	20+062.69	745763.3627	3930981.2880	20+057.79	745767.2842	3930984.2130	20+067.12	745758.4967	3930981.7943	12.53	9.33	4.892	42.6584	S74° 36' 38.40"W
C605	20+092.26	745733.4929	3930984.3958	20+084.87	745740.8434	3930983.6310	20+098.99	745727.4946	3930980.0786	19.41	14.12	7.390	41.6839	S75° 05' 52.61"W
C606	20+109.73	745718.7838	3930973.8091	20+105.70	745722.0494	3930976.1595	20+113.65	745716.6565	3930970.3941	20.38	7.94	4.023	22.3360	S43° 05' 16.76"W
C607	20+142.53	745701.3835	3930945.8760	20+135.22	745705.2517	3930952.0856	20+149.50	745701.2363	3930938.5815	26.59	14.28	7.316	30.7870	S16° 32' 11.35"W
C608	20+175.77	745700.7076	3930912.2950	20+167.97	745700.8644	3930920.0873	20+181.25	745693.1309	3930910.4678	10.10	13.28	7.794	75.2884	S38° 47' 49.98"W
C609	20+199.18	745675.6983	3930906.2638	20+191.45	745683.2128	3930908.0760	20+206.85	745668.7729	3930902.8299	68.83	15.40	7.730	12.8154	S70° 02' 01.50"W
C610	20+232.87	745645.4558	3930891.2684	20+218.88	745657.9974	3930897.4870	20+246.83	745633.9028	3930883.3634	200.00	27.95	13.999	8.0076	S59° 37' 20.22"W
C611	20+268.50	745616.0194	3930871.1269	20+253.31	745628.5525	3930879.7025	20+281.25	745601.8796	3930876.6663	28.70	27.94	15.186	55.7749	S83° 30' 21.49"W
C612	20+308.78	745576.2409	3930886.7106	20+300.92	745583.5584	3930883.8439	20+316.02	745568.7625	3930884.2949	22.01	15.10	7.859	39.2950	N88° 15' 14.60"W
C613	20+325.56	745559.6866	3930881.3632	20+319.92	745565.0501	3930883.0958	20+331.14	745554.0673	3930880.9236	47.88	11.22	5.636	13.4288	S78° 48' 46.26"W
C614	20+342.42	745542.8235	3930880.0441	20+337.99	745547.2411	3930880.3897	20+346.73	745538.8887	3930878.0063	21.87	8.74	4.431	22.9070	S74° 04' 25.42"W
C615	20+370.59	745517.7052	3930867.0353	20+365.61	745522.1278	3930869.3258	20+375.38	745512.7248	3930867.0075	20.70	9.78	4.981	27.0598	S76° 09' 00.29"W
C616	20+383.15	745504.9616	3930866.9641	20+379.90	745508.2132	3930866.9823	20+386.38	745501.7792	3930866.2970	32.24	6.48	3.252	11.5194	S83° 55' 12.92"W
C617	20+436.26	745452.9555	3930856.0621	20+428.20	745460.8443	3930857.7158	20+444.12	745446.2568	3930851.5791	41.56	15.92	8.060	21.9521	S67° 11' 04.26"W
C618	20+459.83	745433.2032	3930842.8433	20+453.34	745438.5964	3930846.4526	20+465.93	745426.7141	3930842.9239	20.90	12.58	6.490	34.5028	S73° 27' 35.59"W
C619	20+491.20	745401.4464	3930843.2376	20+474.23	745418.4099	3930843.0270	20+501.76	745399.6419	3930826.3690	18.64	27.53	16.965	84.6052	S48° 24' 31.38"W
C620	20+511.13	745398.6451	3930817.0512	20+507.94	745398.9839	3930820.2186	20+514.25	745397.2134	3930814.2056	17.53	6.30	3.185	20.6009	S16° 24' 23.79"W
C621	20+555.39	745378.7234	3930777.4535	20+547.77	745382.1458	3930784.2562	20+562.86	745373.2820	3930772.1261	45.75	15.09	7.615	18.8989	S36° 09' 23.56"W
C622	20+606.05	745342.4262	3930741.9161	20+590.69	745346.2519	3930745.6618	20+611.38	745339.1924	3930737.6489	72.47	10.89	5.354	8.4507	S41° 22' 50.44"W
C623	20+637.64	745323.3336	3930716.7218	20+626.44	745330.0968	3930725.6465	20+645.31	745313.1600	3930721.4003	13.94	18.87	11.198	77.5408	S75° 55' 32.72"W
C624	20+654.07	745305.1973	3930725.0621	20+649.85	745309.0339	3930723.2978	20+657.92	745301.1592	3930723.8269	11.09	8.07	4.223	41.7041	N86° 09' 21.25"W
C625	20+669.30	745290.2764	3930720.4980	20+665.06	745294.3309	3930721.7382	20+673.41	745287.1234	3930717.6634	19.17	8.35	4.240	24.9485	S60° 31' 04.06"W
C626	20+680.21	745282.0636	3930713.1145	20+674.65	745286.1992	3930716.8325	20+683.90	745277.6931	3930716.5532	6.61	9.25	5.561	80.1518	S88° 07' 10.08"W
C627	20+699.76	745265.2257	3930726.3624	20+696.56	745267.7418	3930724.3827	20+702.91	745263.4039	3930728.9949	21.27	6.36	3.201	17.1192	N43° 14' 42.08"W
C628	20+728.63	745248.7716	3930750.1382	20+717.64	745255.0241	3930741.1034	20+735.89	745238.8116	3930745.4990	13.03	18.26	10.987	80.2898	N74° 49' 49.10"W
C629	20+756.27	745220.3431	3930736.8967	20+746.64	745229.0695	3930740.9613	20+765.66	745213.7686	3930729.8650	49.64	19.02	9.627	21.9494	S54° 03' 00.33"W
C630	20+779.82	745204.0966	3930719.5203	20+773.91	745208.1336	3930723.8381	20+785.23	745198.2193	3930718.8885	15.90	11.32	5.911	40.7891	S63° 28' 11.76"W
C631	20+807.96	745175.6152	3930716.4587	20+799.31	745184.2195	3930717.3836	20+815.13	745170.2196	3930723.2246	15.75	15.83	8.654	57.5645	N67° 21' 11.72"W
C632	20+827.16	745162.7221	3930732.6263	20+821.60	745166.1900	3930728.2777	20+831.78	745164.5043	3930737.8951	10.19	10.18	5.562	57.2586	N9° 56' 30.13"W
C633	20+862.22	745174.2586	3930766.7336	20+851.99	745170.9791	3930757.0378	20+872.28	745180.4124	3930774.9125	63.65	20.30	10.235	18.2701	N27° 49' 21.52"E
C634	20+893.73	745193.3043	3930792.0469	20+886.43	745188.9196	3930786.2193	20+900.41	745192.8758	3930799.3273	19.86	13.98	7.293	40.3258	N16° 47' 41.27"E
C635	20+931.73	745191.0358	3930830.5918	20+915.89	745191.9664	3930814.7808	20+931.58	745180.3367	3930818.9136	6.70	15.69	15.838	134.1372	N70° 26' 12.10"W
C636	20+944.39	745171.6823	3930809.4672	20+938.01	745175.9946	3930814.1741	20+950.28	745165.3675	3930808.5317	17.99	12.27	6.384	39.0790	S62° 02' 03.15"W
C637	20+974.43	745141.4779	3930804.9928	20+969.85	745146.0071	3930805.6637	20+978.39	745139.1690	3930801.0390	9.54	8.54	4.579	51.2906	S55° 55' 42.32"W
C638	20+997.00	745129.7808	3930784.9621	20+994.33	745131.1270	3930787.2675	20+999.67	745128.2779	3930782.7555	76.91	5.34	2.670	3.9764	S32° 16' 16.82"W
C639	21+045.43	745102.5211	3930744.9401	21+033.41	745109.2839	3930754.8691	21+057.17	745092.6611	3930738.0771	65.13	23.76	12.013	20.9007	S44° 42' 35.59"W
C640	21+078.09	745075.4936	3930726.1277	21+073.48	745079.2793	3930728.7627	21+082.67	745072.2809	3930722.8182	47.86	9.20	4.612	11.0105	S49° 39' 17.92"W
C641	21+093.86	745064.4880	3930714.7906	21+092.72	745065.2805	3930715.6070	21+095.00	745063.7048	3930713.9652	200.00	2.28	1.138	0.6519	S43° 49' 25.57"W
C642	21+158.39	745020.0698	3930667.9800	21+153.58	745023.3804	3930671.4689	21+163.18	745017.3695	3930663.9999	58.86	9.60	4.810	9.3425	S38° 49' 35.71"W
C643	21+181.45	745007.1116	3930648.8805	21+173.92	745011.3380	3930655.1099	21+188.92	745004.2694	3930641.9099	71.79	15.00	7.528	11.9729	S28° 10' 08.12"W
C644	21+233.32	744987.5064	3930600.7975	21+216.86	744993.7216	3930616.0406	21+236.23	744977.9311	3930614.1876	9.08	19.37	16.462	122.2488	S83° 18' 24.79"W
C645	21+244.69	744973.0080	3930621.0720	21+238.45	744976.6401	3930615.9929	21+250.01	744966.7646	3930621.1640	12.36	11.56	6.244	53.5868	N62° 21' 43.56"W
C646	21+267.85	744948.9337	3930621.4269	21+258.53	744958.2461	3930621.2896	21+271.93	744951.0527	3930630.4960	7.50	13.39	9.313	102.3067	N38° 00' 07.65"W
C647	21+305.34	744958.6551	3930663.0339	21+296.49	744956.6413	3930654.4147	21+313.99	744957.3873	3930671.7939	46.87	17.50	8.851	21.3866	N2° 27' 28.58"E
C648	21+342.06	744953.3651	3930699.5841	21+338.26	744953.9104	3930695.8168	21+345.63	744950.7561	3930702.3560	12.06	7.37	3.807	35.0318	N25° 45' 04.55"W
C649	21+358.69	744941.8039	3930711.8668	21+354.00	744945.0227	3930708.4471	21+363.34	744939.5241	3930715.9725	37.63	9.34	4.696	14.2260	N36° 09' 15.13"W
C650	21+390.32	744926.4299	3930739.5552	21+381.19	744930.8590	3930731.5783	21+397.48	744917.3216	3930739.0200	14.51	16.29	9.124	64.3215	N61° 12' 07.12"W

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 SON 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	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)		N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD		N.T.S	HORIZONTAL CURVE DATA  <small>DWG NO: CEC/RWP/RRDP/N-CHT/2/ HCD-13</small>
		b			DRAWN	IMRAN TARIQ						
		c			CHECKED	SHAHZAD DURRANI						
			APPROVED	AGEEL YOUSIF								

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
C651	21+408.71	744906.1090	3930738.3612	21+401.88	744912.9328	3930738.7621	21+414.71	744901.3298	3930743.2483	15.00	12.83	6.836	49.0023	N68° 51' 41.74"W
C652	21+424.23	744894.6727	3930750.0557	21+420.58	744897.2207	3930747.4501	21+427.70	744893.8185	3930753.5985	13.23	7.11	3.644	30.8056	N28° 57' 27.64"W
C653	21+446.61	744889.3855	3930771.9859	21+436.89	744891.6632	3930762.5383	21+454.22	744879.8739	3930773.9798	15.37	17.33	9.718	64.6057	N45° 51' 27.90"W
C654	21+469.76	744864.6653	3930777.1679	21+463.48	744870.8118	3930775.8794	21+474.62	744863.3561	3930783.3101	9.65	11.13	6.280	66.1286	N45° 05' 46.75"W
C655	21+492.10	744859.7123	3930800.4059	21+485.99	744860.9860	3930794.4301	21+498.02	744856.0804	3930805.3192	28.21	12.03	6.110	24.4395	N24° 15' 06.40"W
C656	21+533.15	744835.1969	3930833.5711	21+509.12	744849.4855	3930814.2411	21+527.48	744857.7403	3930825.2281	7.17	18.37	24.038	146.7802	N36° 55' 06.80"E
C657	21+546.98	744876.0236	3930818.4618	21+533.75	744863.6208	3930823.0519	21+559.60	744889.0667	3930820.6472	49.67	25.85	13.225	29.8205	S84° 36' 05.78"E
C658	21+584.12	744913.2422	3930824.6980	21+574.58	744903.8388	3930823.1224	21+593.56	744921.9941	3930828.4806	78.43	18.98	9.534	13.8626	N73° 33' 24.60"E
C659	21+615.70	744942.3186	3930837.2651	21+606.46	744933.8407	3930833.6009	21+624.77	744951.5265	3930837.9821	55.42	18.30	9.236	18.9216	N76° 05' 10.68"E
C660	21+645.06	744971.7562	3930839.5575	21+640.54	744967.2555	3930839.2070	21+649.50	744975.9393	3930841.2548	29.11	8.96	4.514	17.6311	N76° 43' 53.43"E
C661	21+672.44	744997.1915	3930849.8775	21+663.60	744989.0022	3930846.5548	21+680.52	745001.2335	3930857.7368	23.83	16.93	8.838	40.6996	N47° 33' 58.09"E
C662	21+712.57	745015.8913	3930886.2379	21+709.36	745014.4207	3930883.3783	21+715.72	745018.2503	3930888.4230	18.26	6.37	3.216	19.9748	N37° 12' 13.46"E
C663	21+724.20	745024.4681	3930894.1826	21+720.44	745021.7105	3930891.6282	21+727.88	745026.1799	3930897.5290	21.21	7.44	3.759	20.1000	N37° 08' 28.03"E
C664	21+750.74	745036.5894	3930917.8787	21+740.25	745031.8129	3930908.5411	21+761.01	745044.3144	3930924.9729	58.45	20.76	10.488	20.3461	N37° 15' 50.94"E
C665	21+779.33	745057.8082	3930937.3649	21+772.04	745052.4436	3930932.4384	21+786.38	745064.7443	3930939.5878	33.14	14.34	7.284	24.7935	N59° 50' 02.15"E
C666	21+816.02	745092.9707	3930948.6336	21+805.10	745082.5733	3930945.3015	21+817.52	745084.2885	3930955.2539	5.70	12.42	10.918	124.9051	N9° 46' 41.28"E
C667	21+823.04	745079.9015	3930958.5990	21+818.54	745083.4784	3930955.8716	21+827.09	745075.4329	3930958.0851	11.17	8.55	4.498	43.8859	N74° 37' 02.43"W
C668	21+842.70	745059.9307	3930956.3023	21+837.24	745065.3507	3930956.9256	21+848.03	745054.6477	3930957.6638	29.42	10.79	5.456	21.0113	N86° 03' 16.72"W
C669	21+859.34	745043.6949	3930960.4863	21+853.84	745049.0211	3930959.1138	21+864.69	745039.3167	3930963.8155	27.28	10.85	5.500	22.7981	N64° 08' 59.85"W
C670	21+884.10	745023.8697	3930975.5613	21+878.60	745028.2463	3930972.2333	21+889.51	745018.6826	3930977.3842	34.94	10.91	5.498	17.8863	N61° 41' 38.56"W

<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:
		0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD  ACCESS ROAD	N.T.S AUG, 2024	HORIZONTAL CURVE DATA  DWG NO: CEC\KWP-RRDN-CHT-2/ HCD-14
		a			DRAWN	IMRAN FARIQ				
		b			CHECKED	SHAHZAD DURRANI				
		c			APPROVED	AQEEL YOUNIS				





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

## LIST OF CULVERTS & CAUSEWAYS



S. No.	Location (Km)	Type of Structure	Existing Structures		Proposed / Recommended						Remarks
			No of Cells / Spans	Size ( W x H) (m)	Replaced			New			
					No. of Cells	Type	Size W x H (m)	No. of Cells	Type	Size W x H (m)	
1	0+730	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				Replaced
2	1+054	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				Replaced
3	1+121	Slab Culvert		2x1.5		Slab Culvert	2.5x2				Replaced
4	1+413	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				Replaced
5	1+522	Slab Culvert		3x2		Slab Culvert	3.5x2.5				Replaced
6	1+537	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				Replaced
7	1+633	Slab Culvert		2x1.5		Slab Culvert	2.5x2				Replaced
8	1+727	Slab Culvert		3x2		Slab Culvert	3.5x2.5				Replaced
9	1+915- 1+940								Causeway	25m	Proposed
10	1+955	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				Replaced
11	2+215 - 2+232								Causeway	17m	Proposed
12	2+431								Slab Culvert	1.5x1.5	Proposed
13	2+620								Pipe Culvert	610mm	Proposed
14	2+672	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5		Slab Culvert	2x1.5	Proposed
15	2+755								Pipe Culvert	610mm	Proposed
16	2+920	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5		Slab Culvert	3x2	Proposed
17	3+070 - 3+080								Causeway	10m	Proposed
18	3+133	Pipe Culvert				Pipe Culvert	610mm		Pipe Culvert	610mm	Proposed
19	3+295	Pipe Culvert				Pipe Culvert	610mm		Pipe Culvert	610mm	Proposed
20	3+345								Slab Culvert	3x2	Proposed
21	3+393	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				
22	3+522								Pipe Culvert	610mm	Proposed
23	3+687								Slab Culvert	3x2	Proposed
24	3+718	Slab Culvert		2.5x2		Slab Culvert	3x2.5				Replaced
25	3+957	Slab Culvert		3x2		Slab Culvert	3.5x2.5				Replaced
26	4+019	Pipe Culvert				Pipe Culvert	610mm				
27	4+090	Pipe Culvert				Pipe Culvert	610mm				
28	4+300	Pipe Culvert				Pipe Culvert	610mm				
29	4+343								Pipe Culvert		Proposed
30	4+397	Slab Culvert		2x1.5		Slab Culvert	2.5x2				Replaced
31	4+607	Slab Culvert		2x1.5		Slab Culvert	2.5x2				Replaced
33	4+725	EXT Bridge		5m		Bridge	55m				Replaced
34	4+791	Slab Culvert		1.5x1.5		Slab Culvert	2x1.5				Replaced
35	5+905								Pipe Culvert	610mm	Replaced
36	7+025							2	Slab Culvert	3x3	Replaced
37	7+267								Pipe Culvert	610mm	Replaced
38	7+380								Pipe Culvert	610mm	Replaced
	8+140 - 8+160								Causeway	20m	Replaced
39	8+390								Slab Culvert	1.5x1.5	Replaced
40	8+996							3	Slab Culvert	3x3	Replaced
41	9+196								Pipe Culvert	610mm	Replaced
42	9+338								Slab Culvert	1.5x1.5	Replaced
43	9+544								Pipe Culvert	910mm	Replaced
44	9+606								Slab Culvert	3x3	Replaced
45	10+230								Slab Culvert	1.5x1.5	Replaced
46	10+793								Slab Culvert	1.5x1.5	Replaced

*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 ROAD DEVELOPMENT PROJECT (RRDP)	N-CHT-2 OSAIC TO ORSOON ROAD	N.T.S
		a			DRAWN			IMRAN TARIQ				DATE:
		b			CHECKED			SHAHZAD DURRANI				AUG. 2024
c			APPROVED	AGEEL YOUNIS								

DWG NO: CEC/WKP/RRDN-CHT-2/ CVT-01

S. No.	Location (Km)	Type of Structure	Existing Structures		Proposed / Recommended						Remarks	
			No of Cells / Spans	Size ( W x H) (m)	Replaced			New				
					No. of Cells	Type	Size W x H (m)	No. of Cells	Type	Size W x H (m)		
47	10+903									Slab Culvert	1.5x1.5	Replaced
48	11+041									Slab Culvert	1.5x1.5	Replaced
49	1+095 - 11+110									Causeway	15m	Replaced
50	11+958									Slab Culvert	1.5x1.5	Replaced
51	11+987									Slab Culvert	1.5x1.5	Replaced
52	12+325									Slab Culvert	1.5x1.5	Replaced
53	12+475									Slab Culvert	2x1.5	Replaced
54	12+520									Slab Culvert	2x1.5	Replaced
55	12+652									Slab Culvert	1.5x1.5	Replaced
56	13+282									Slab Culvert	2x1.5	Replaced
57	13+850									Slab Culvert	1.5x1.5	Replaced
58	14+207									Slab Culvert	1.5x1.5	Replaced
59	14+404									Slab Culvert	1.5x1.5	Replaced
60	14+535									Slab Culvert	1.5x1.5	Replaced
61	14+564									Slab Culvert	1.5x1.5	Replaced
62	14+627									Slab Culvert	2x1.5	Replaced
63	14+654									Slab Culvert	1.5x1.5	Replaced
64	14+793									Slab Culvert	1.5x1.5	Replaced
65	14+840									Slab Culvert	1.5x1.5	Replaced
66	14+934									Slab Culvert	1.5x1.5	Replaced
67	15+037									Slab Culvert	2x1.5	Replaced
68	15+231									Slab Culvert	2x1.5	Replaced
69	15+250									Slab Culvert	1.5x1.5	Replaced
70	15+390									Slab Culvert	1.5x1.5	Replaced
71	16+005									Slab Culvert	1.5x1.5	Replaced
72	16+480									Slab Culvert	1.5x1.5	Replaced
73	16+633									Slab Culvert	1.5x1.5	Replaced
74	16+791									Slab Culvert	1.5x1.5	Replaced
75	17+216									Slab Culvert	1.5x1.5	Replaced
76	17+314									Slab Culvert	1.5x1.5	Replaced
77	17+393									Slab Culvert	1.5x1.5	Replaced
78	17+610									Slab Culvert	1.5x1.5	Replaced
79	17+640									Slab Culvert	1.5x1.5	Replaced
80	17+940									Slab Culvert	1.5x1.5	Replaced
81	18+018									Slab Culvert	1.5x1.5	Replaced
82	18+086									Slab Culvert	1.5x1.5	Replaced
83	18+122									Slab Culvert	1.5x1.5	Replaced
84	18+160									Slab Culvert	1.5x1.5	Replaced
85	18+642									Slab Culvert	1.5x1.5	Replaced
86	18+702									Slab Culvert	1.5x1.5	Replaced
87	19+145									Slab Culvert	1.5x1.5	Replaced
88	19+183									Slab Culvert	1.5x1.5	Replaced
89	19+402									Slab Culvert	1.5x1.5	Replaced
90	19+560									Slab Culvert	1.5x1.5	Replaced
91	20+075									Slab Culvert	1.5x1.5	Replaced

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



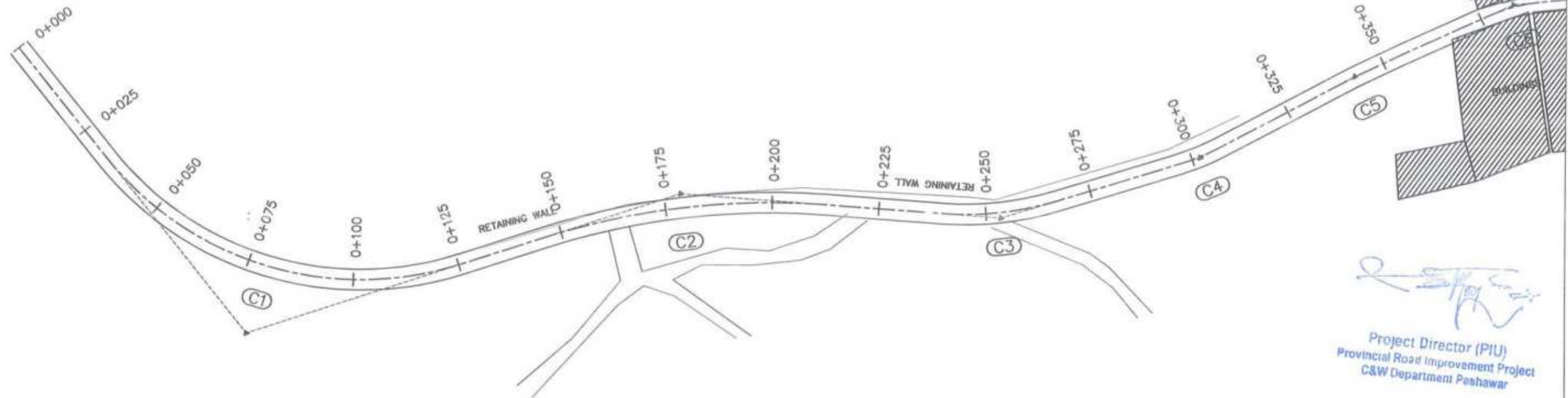
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA                  COMMUNICATION &amp; WORKS DEPARTMENT                  PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD                  (COMPANY NO. 58835-P)                  J.V.                   CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:		
		0	AUG. 2024	TENDER DRAWINGS	G. DESIGNED	TANZEEL			KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (RRDP)		N-GHT-2 OSAIC TO ORSOON ROAD	N.T.S
		a			DRAWN	IMRAN TARIQ						DATE:
		b			CHECKED	SHAHZAD DURRANI						AUG. 2024
c			APPROVED	AGEEL YOUNIS	DWG NO: CEC/RRDP-RRDN-GHT-2/ CVT-02							



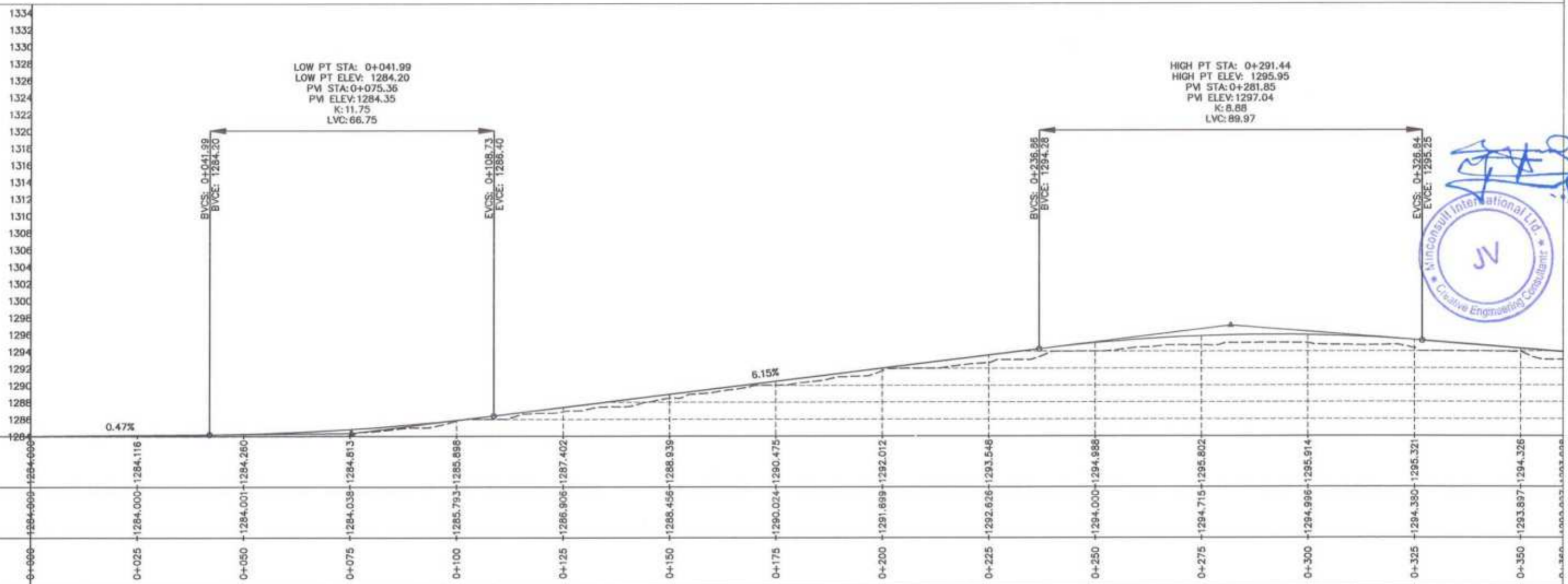
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar




# PLAN & PROFILE DRAWINGS

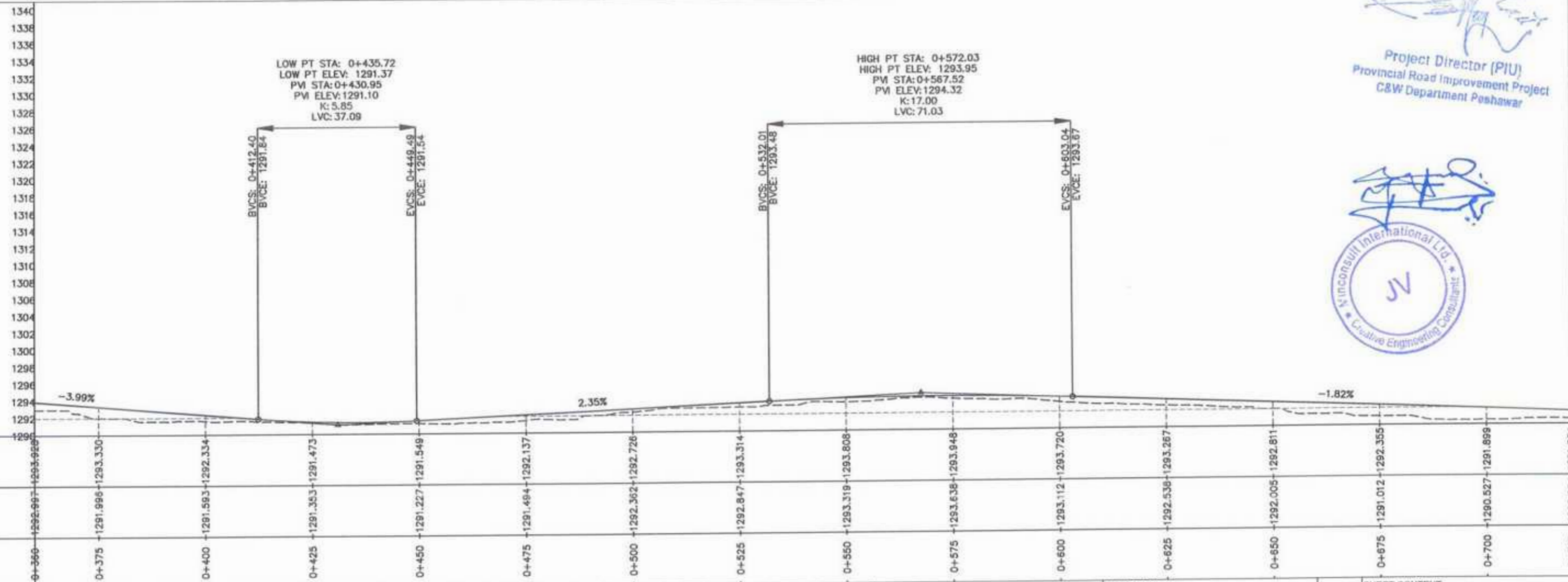
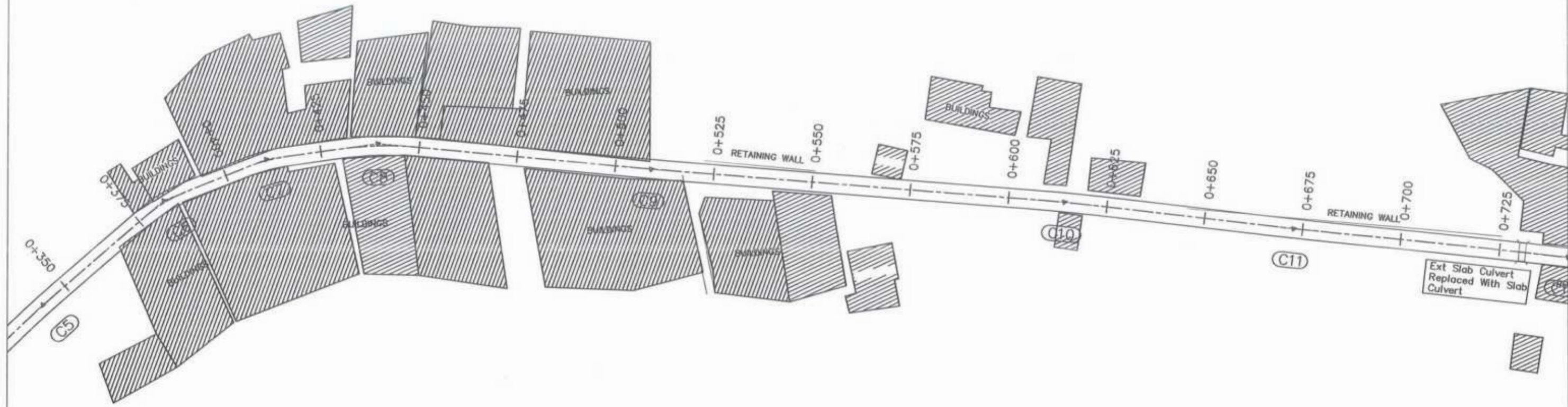
  

  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



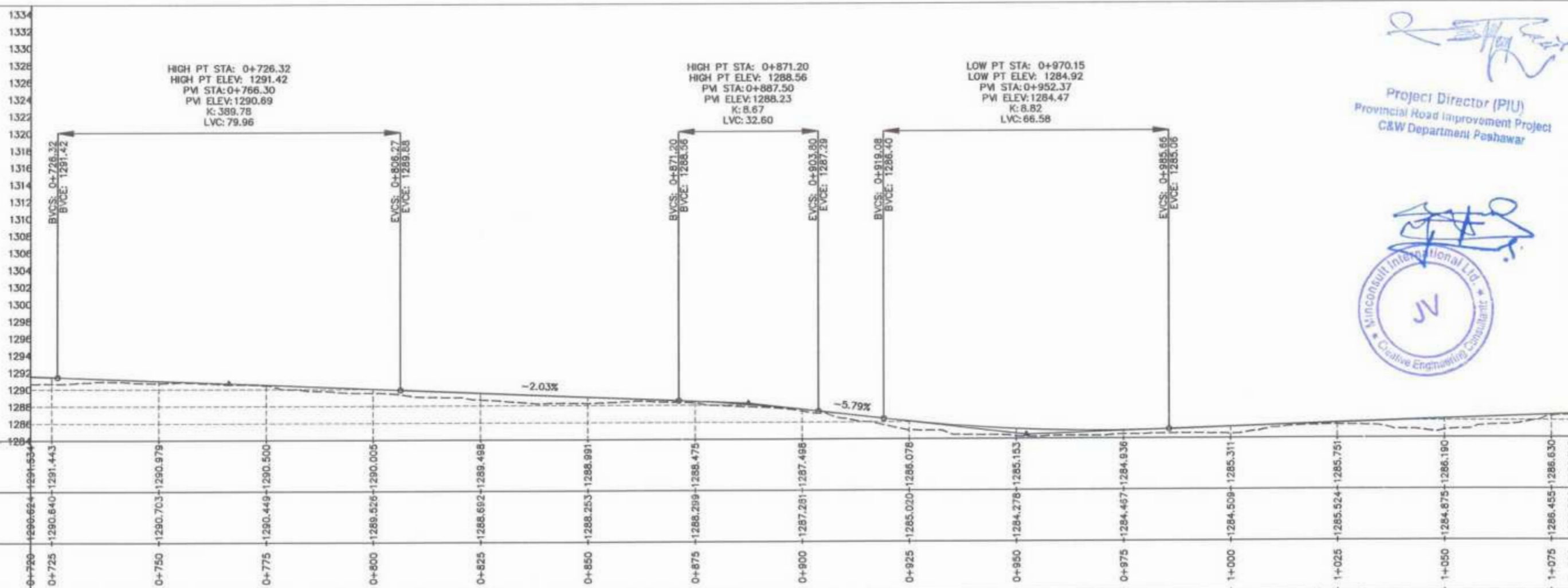
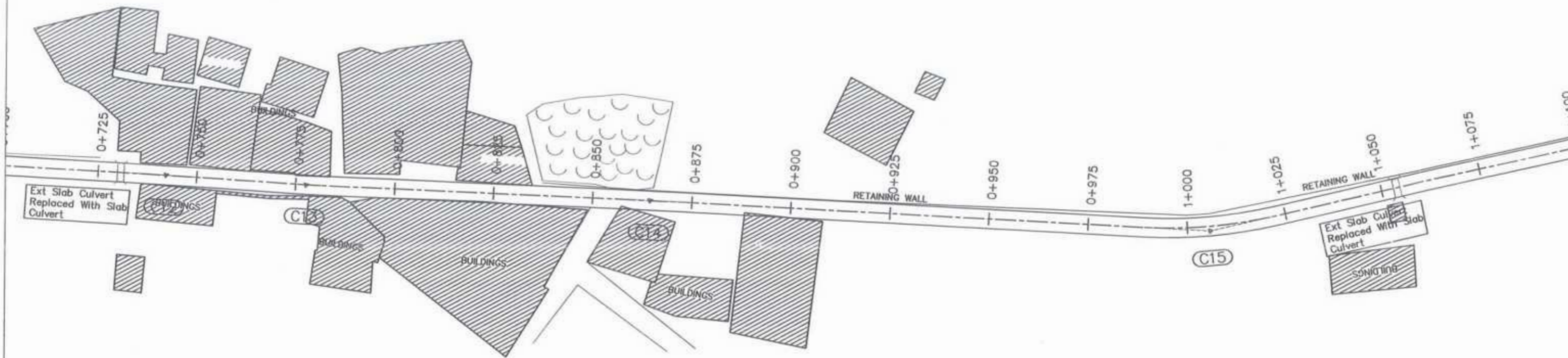
 <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:					
		0	AUG, 2024	TENDER DRAWINGS	G. DESIGNED					TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024	PLAN & PROFILE 0+000.00 - 0+360.00 CEC/HWKP-RRDP/N_CHT_2/PP1 1
		a			DRAWN					IMRAN				
		b			CHECKED					AQEEL YOUNIS				
c			APPROVED	S.DURRANI										



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






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 TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500 DATE: AUG, 2024	PLAN & PROFILE 0+360.00 - 0+720.00 CEC/HW/KP-RRDP/N_CHT_2/PP/ 2
		a			DRAWN IMRAN		OSAIC TO ORSOON		
		b			CHECKED AQEEL YOUNIS		ACCESS ROAD		
		c			APPROVED S.DURRANI				



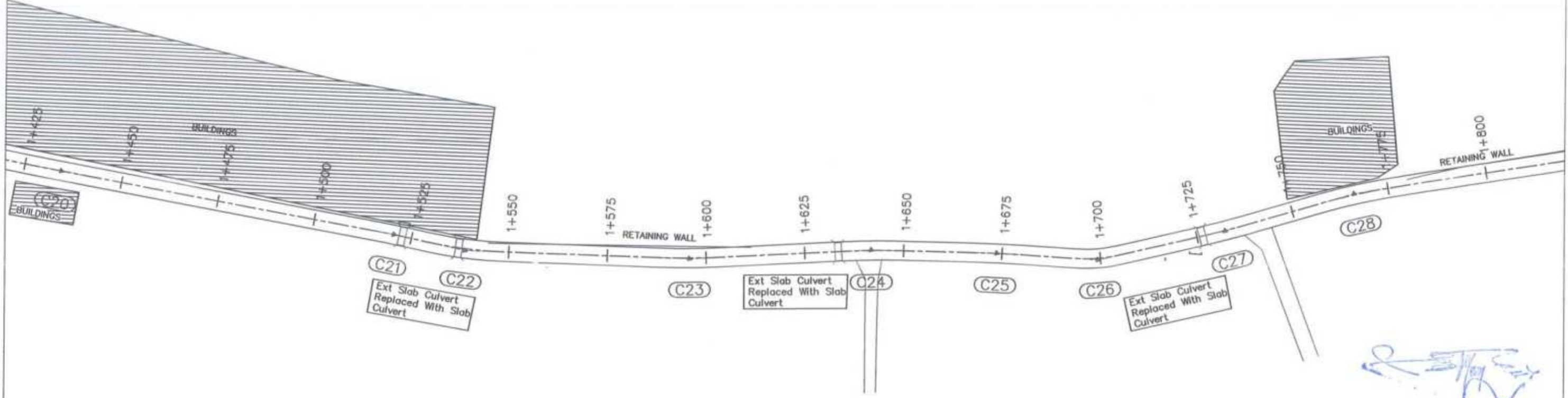
  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

  
  
 Creative Engineering Consultants

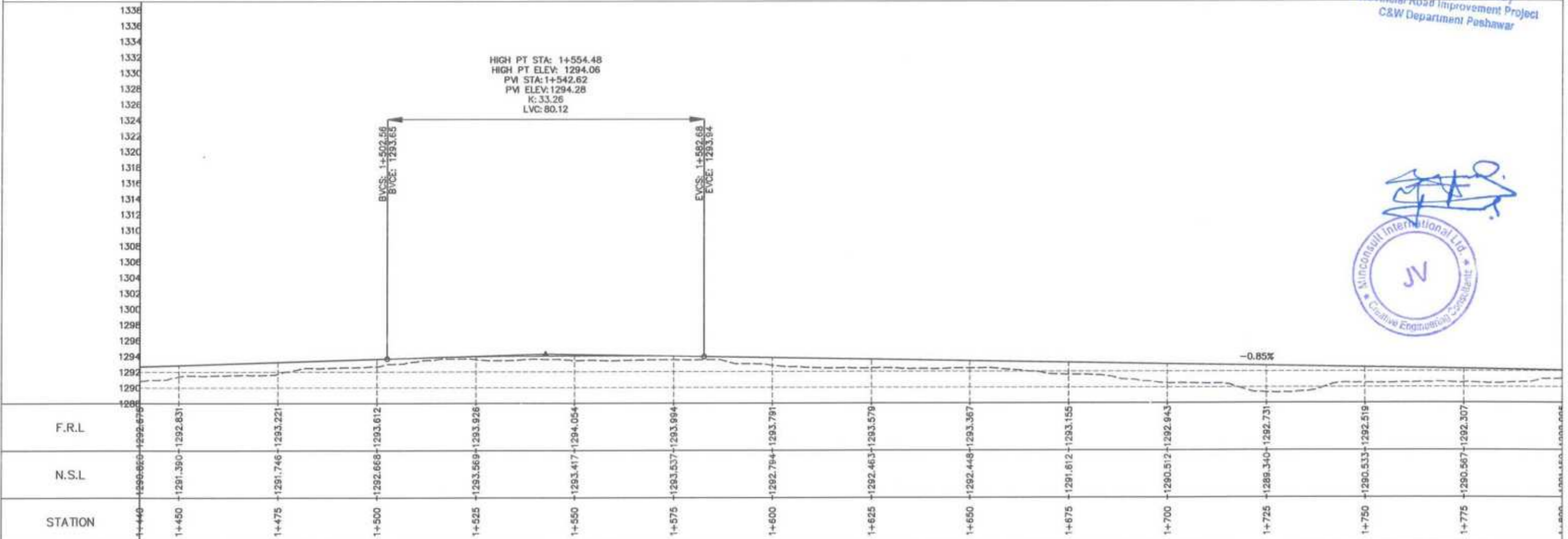
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 59835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G. DESIGNED	TANZEEL	N_CHT_2	H=1:1000	PLAN & PROFILE 0+720.00 - 1+080.00
		a			DRAWN	IMRAN		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	
		b			CHECKED	AQEEL YOUNIS	DATE:		
		c			APPROVED	S.DURRANI	AUG, 2024	ACCESS ROAD	



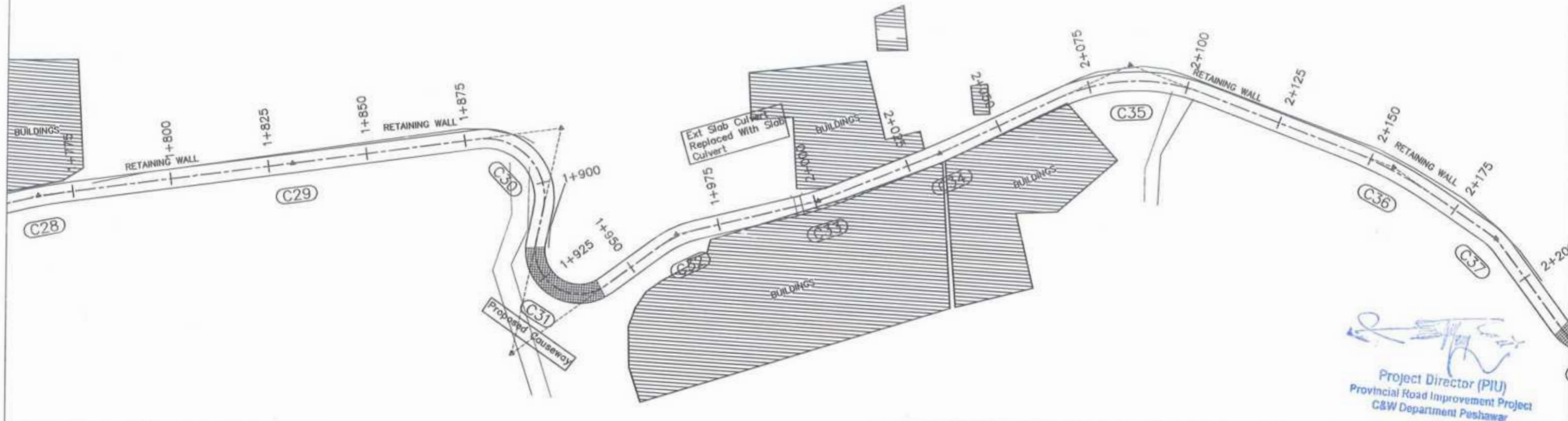




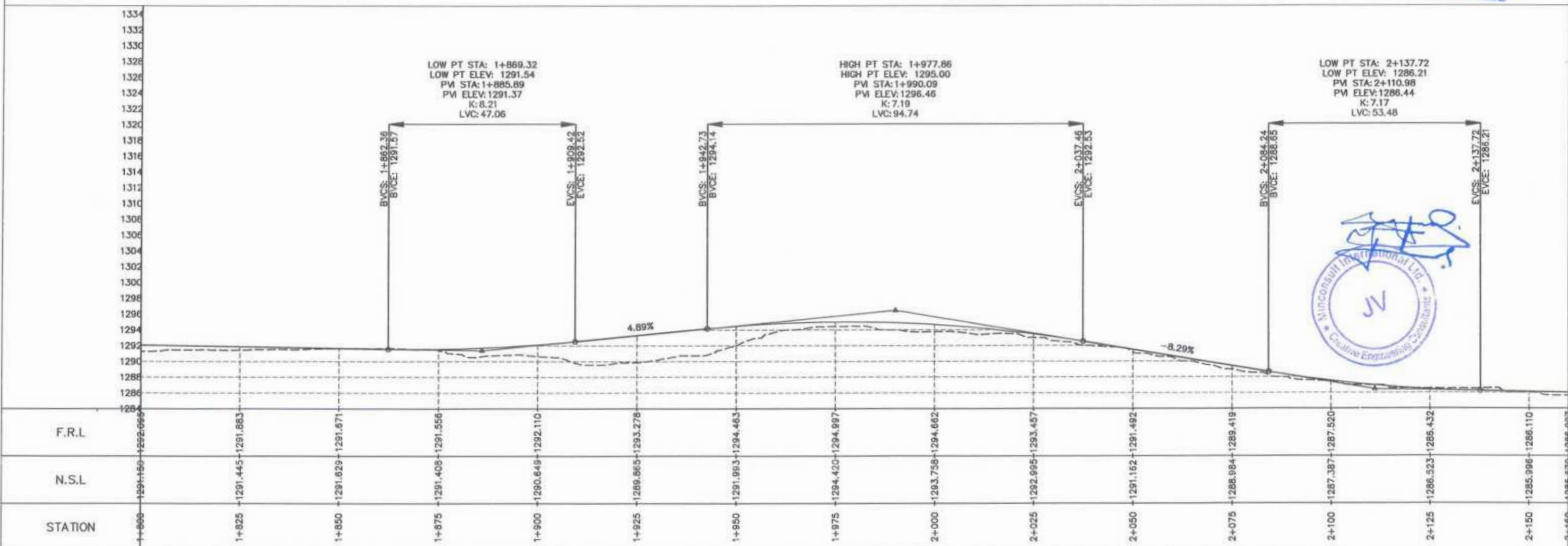
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



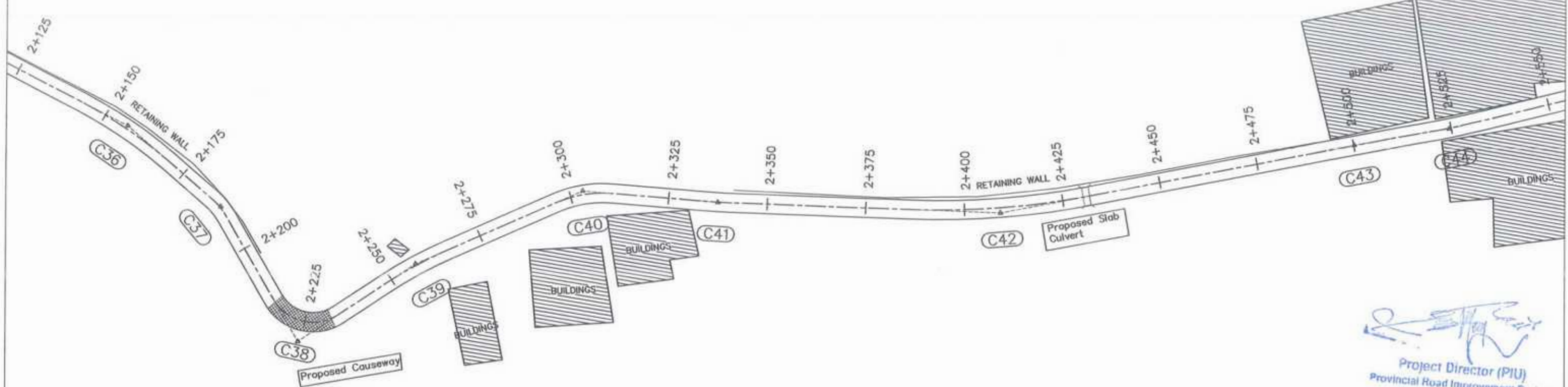
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 1+440.00 - 1+800.00
		a			DRAWN IMRAN		OSAIC TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		DATE:	AUG, 2024	
		c			APPROVED S.DURRANI		ACCESS ROAD	CEC/HW/KP-RRDP/N_CHT_2/PP/	



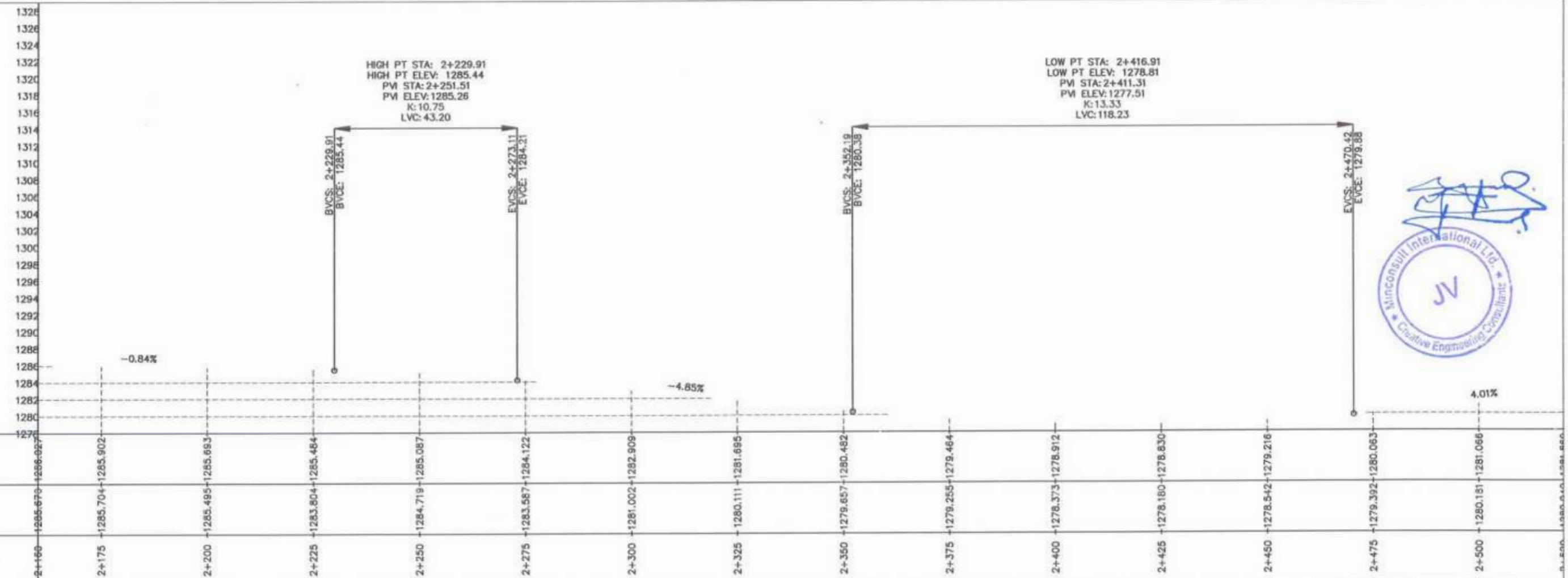
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



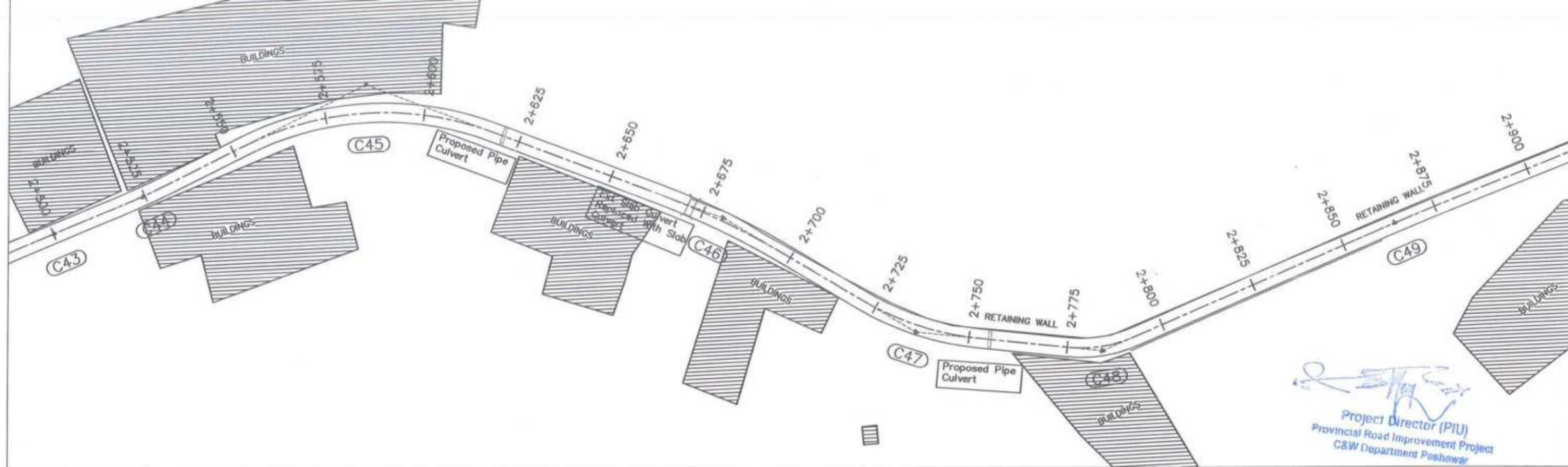
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 1+800.00 - 2+160.00
		a			DRAWN IMRAN		OSAC TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		DATE:		
		c			APPROVED S.DURRANI		AUG, 2024.		
							ACCESS ROAD		CECHWKP-RRDP/N_CHT_2/PP/ 6



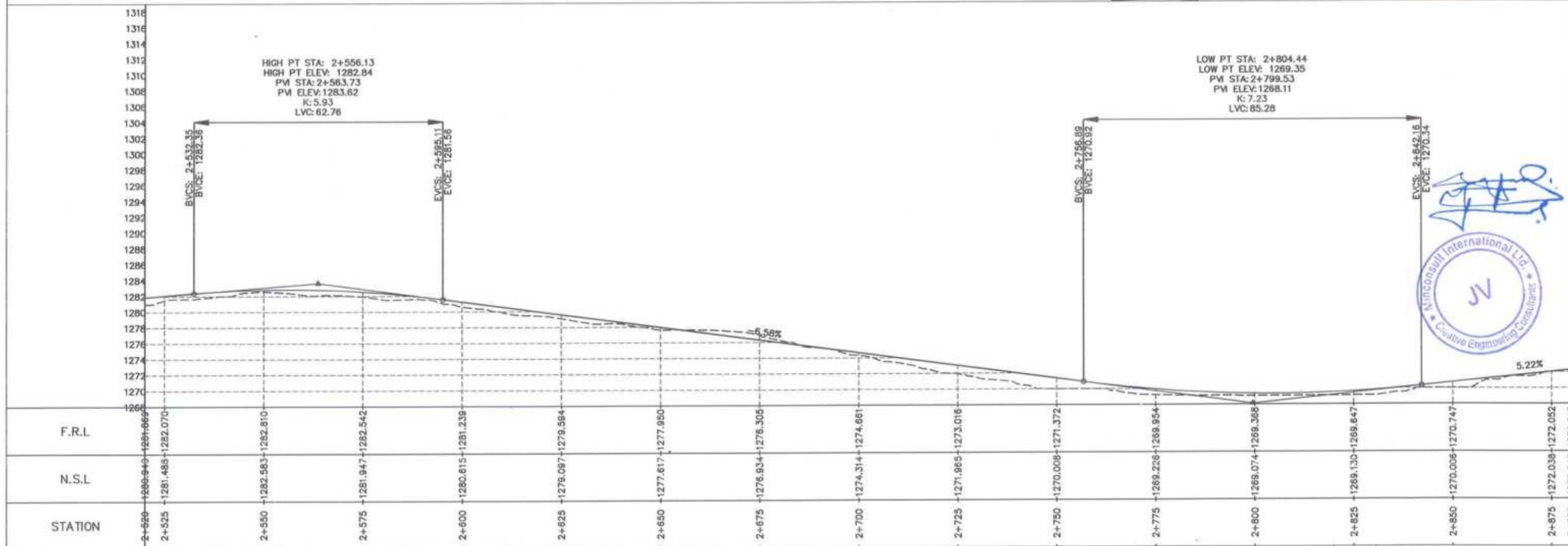
  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 98835-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 ROAD DEVELOPMENT PROJECT (KP-RRDP)		N_CHT_2 OSAIC TO ORSOON	H=1:1000 V=1:500
		a			DRAWN	IMRAH						DATE:
		b			CHECKED	AQEEL YOUNIS						AUG, 2024
c			APPROVED	S.DURRANI	CEC/HW/KP-RRDP/N_CHT_2/PP/ 7							

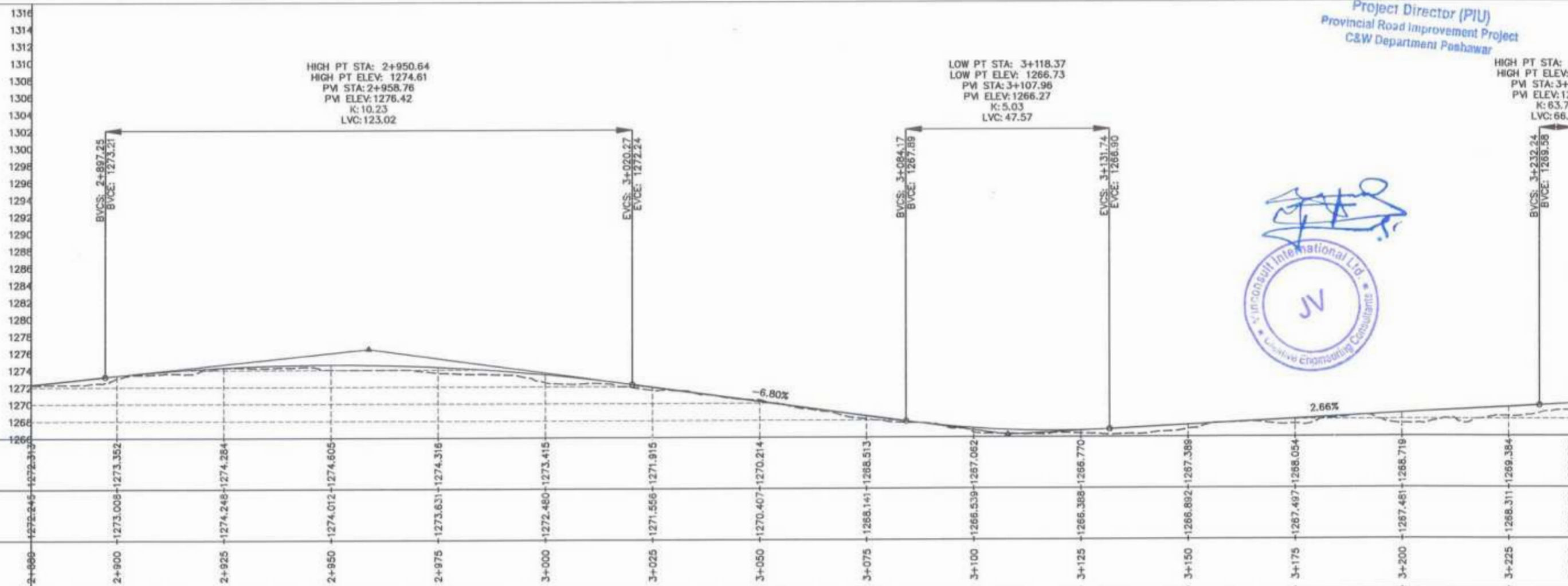
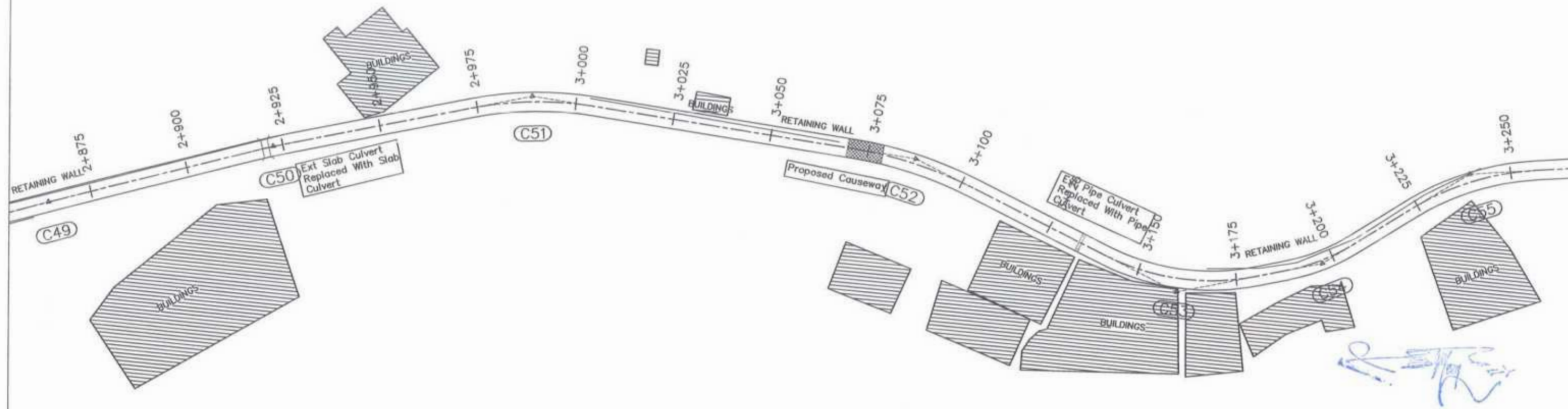


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



Signature  
 Minconsult International Ltd.  
 JV  
 Creative Engineering Consultants

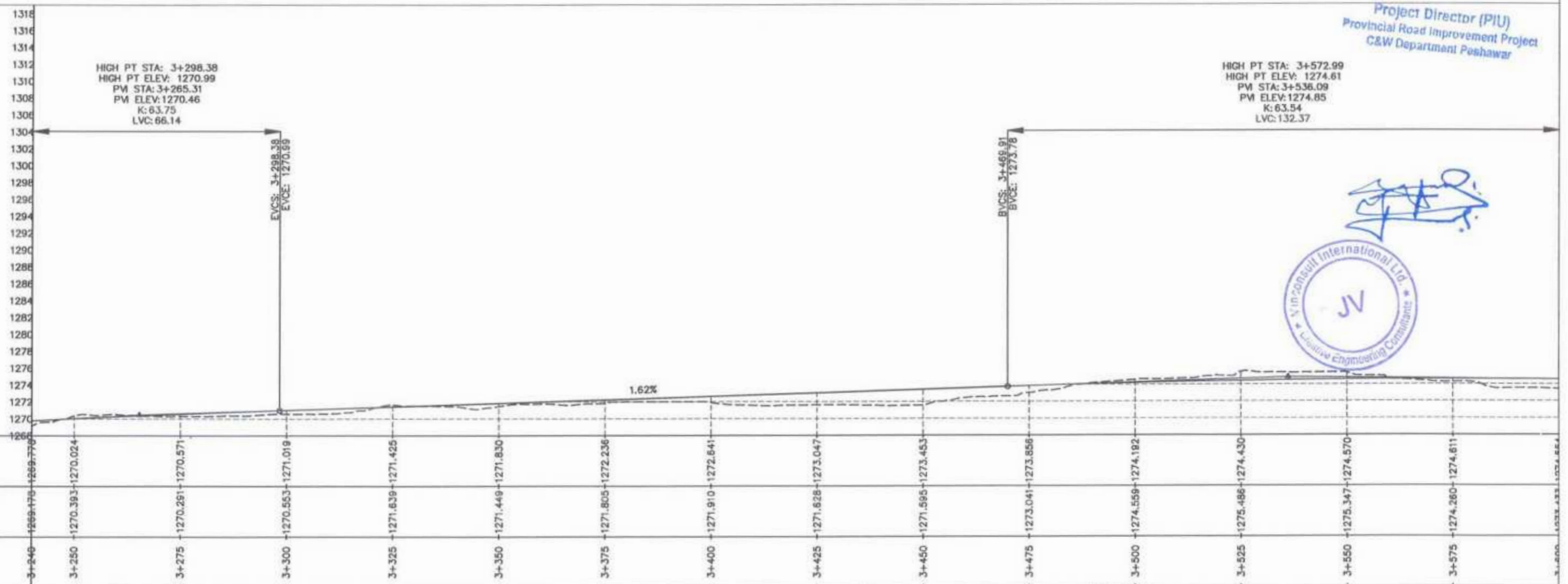
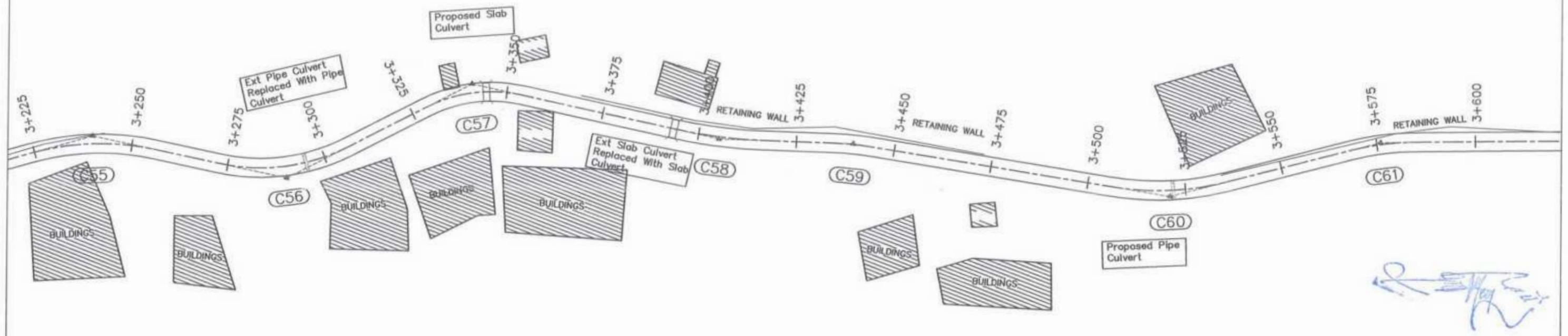
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58335-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 2+520.00 - 2+880.00 CEC/HW/KP-RRDP/N_CHT_3/PP/ 8
		a			DRAWN IMRAN		OSAIC TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		DATE:		
		c			APPROVED S.DURRANI		AUG. 2024.		



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



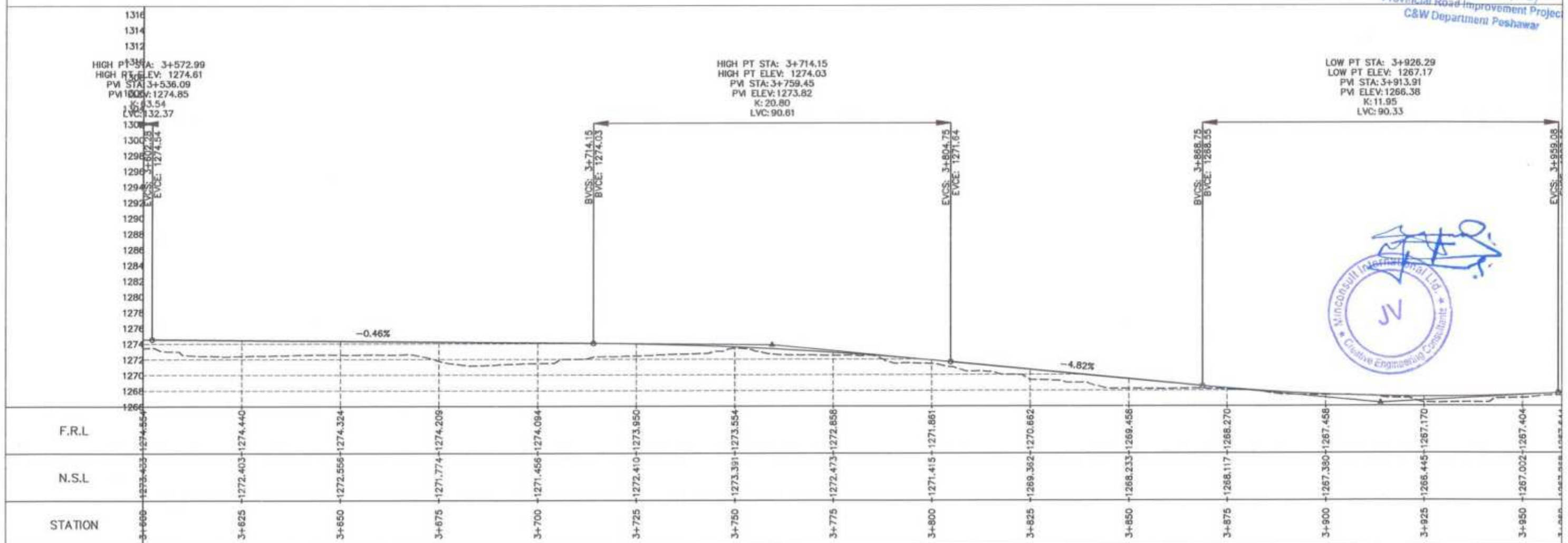
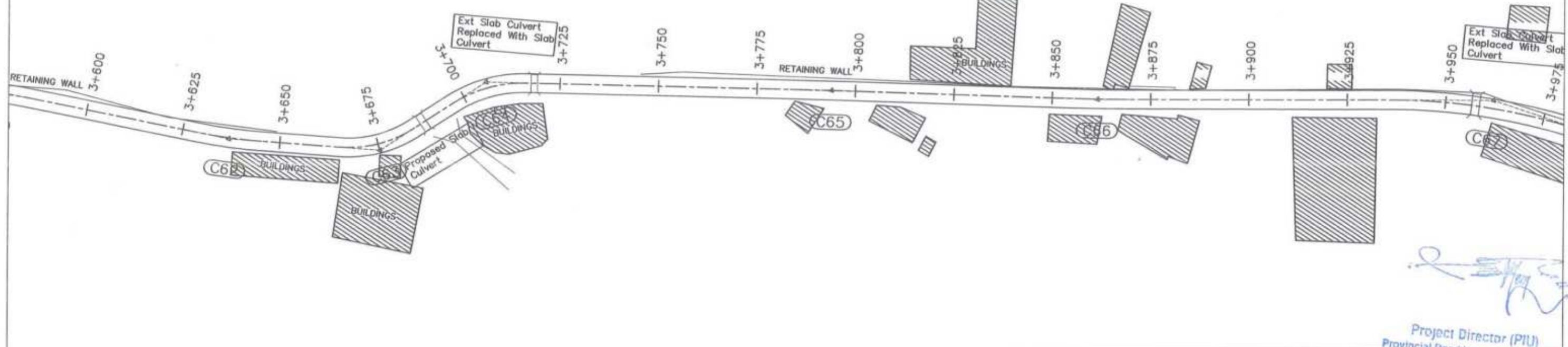
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58535-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG. 2024	TENDER DRAWINGS.	G. DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON	H=1:1000 V=1:500	2+880.00 - 3+240.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										
								ACCESS ROAD	AUG. 2024	CEC/HWKP-RRDP/N_CHT_2/PP/ 9				



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

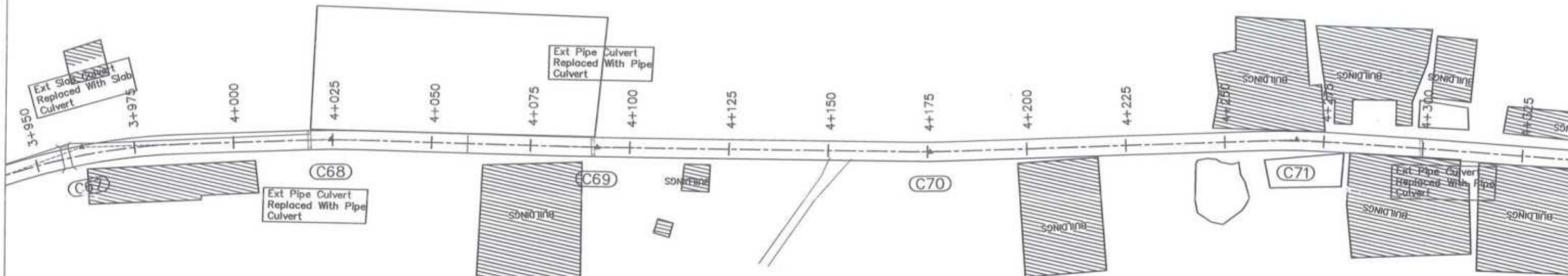


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 5835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024.	PLAN & PROFILE 3+240.00 - 3+600.00
		a			DRAWN IMRAN								
		b			CHECKED AQEEL YOUNIS								
c			APPROVED S.DURRANI										
<p>CLIENT: GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p> <p>DESIGN CONSULTANT: (MIN - JV - CEC) MINCONSULT SDN BHD (COMPANY NO. 5835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)</p> <p>PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</p> <p>ROAD NAME: N_CHT_2 OSAIC TO ORSOON ACCESS ROAD</p> <p>SCALE: H=1:1000 V=1:500 DATE: AUG, 2024.</p> <p>SHEET CONTENT: PLAN &amp; PROFILE 3+240.00 - 3+600.00</p> <p>CEC/HW/KP-RRDP/N_CHT_2/PPV 10</p>													



<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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024	PLAN & PROFILE 3+600.00 - 3+960.00
		a			DRAWN IMRAN								
		b			CHECKED AQEEL YOUNIS								
c			APPROVED S.DURRANI										

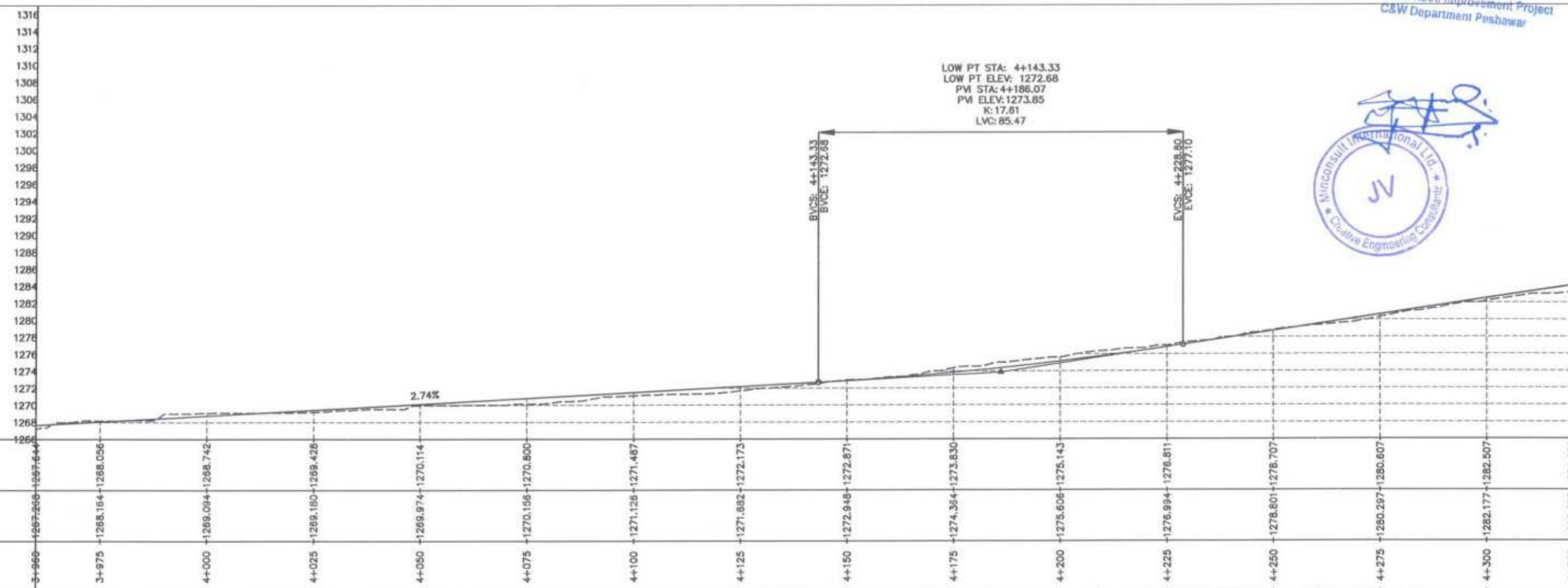




*[Signature]*  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

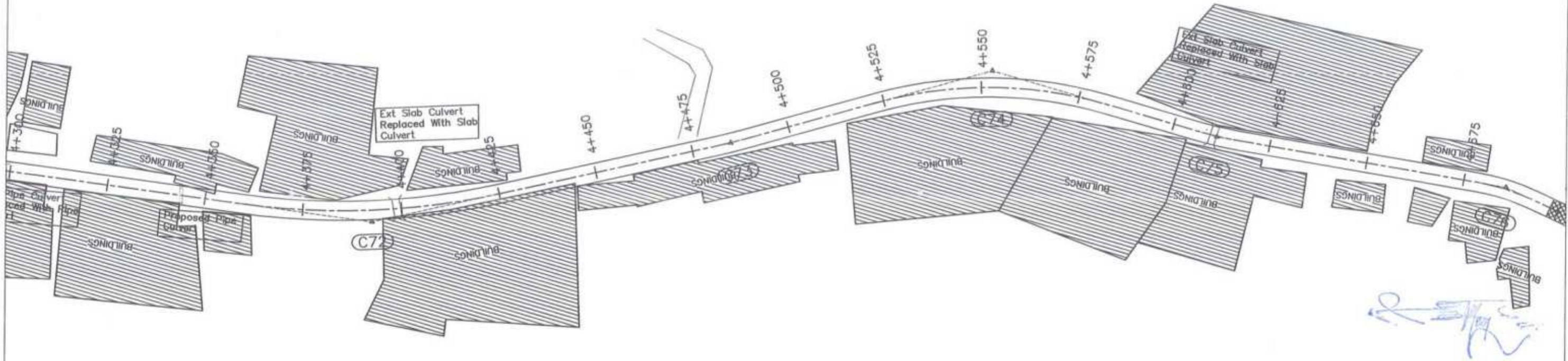


LOW PT STA: 4+143.33  
 LOW PT ELEV: 1272.68  
 PVI STA: 4+186.07  
 PVI ELEV: 1273.85  
 K: 17.61  
 LVC: 85.47



<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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON	H=1:1000 V=1:500	3+960.00 - 4+320.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										
										AUG, 2024	CEC/HW/KP-RRDP/N_CHT_2/PP/ 12			



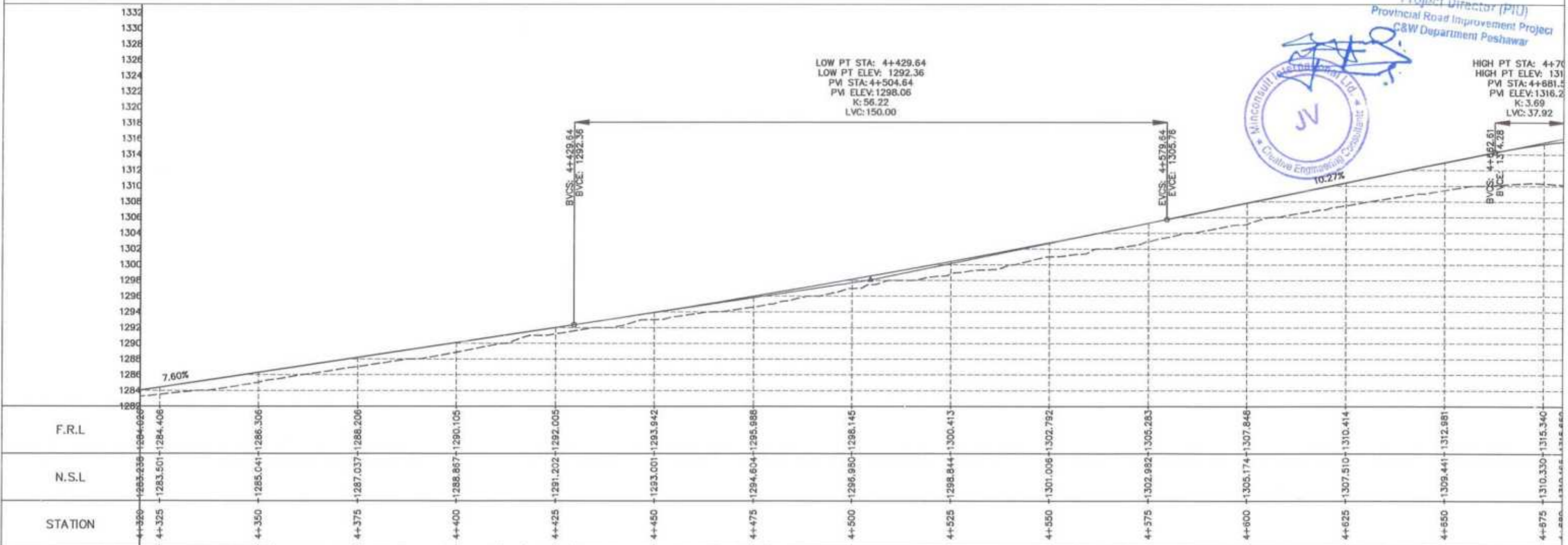


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

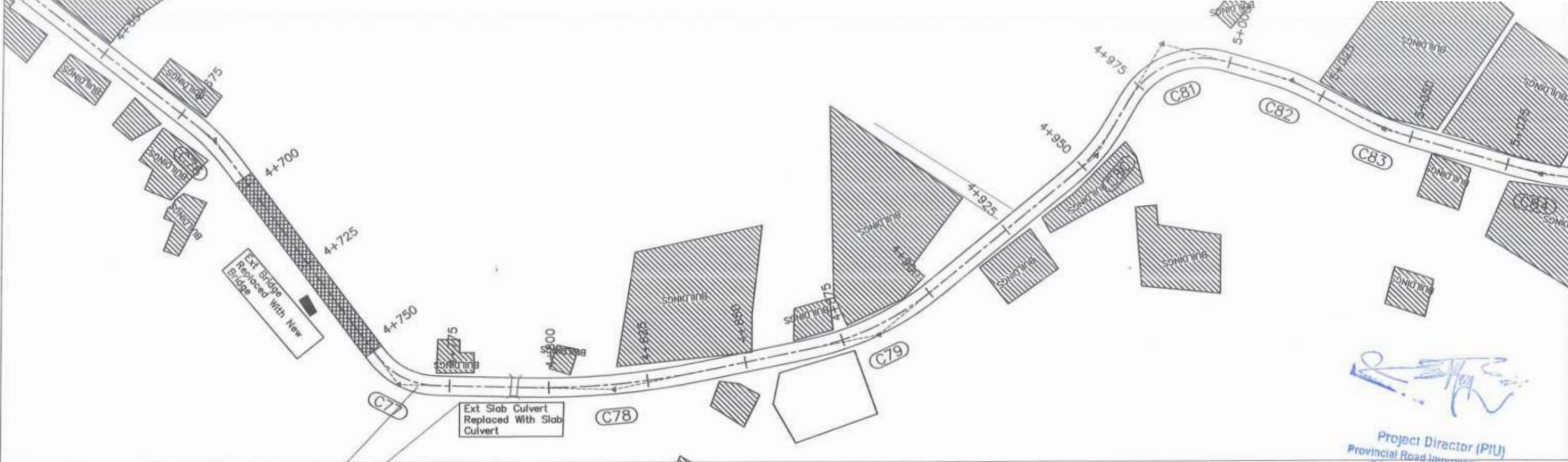


LOW PT STA: 4+429.64  
 LOW PT ELEV: 1292.36  
 PV STA: 4+504.64  
 PV ELEV: 1298.06  
 K: 56.22  
 LVC: 150.00

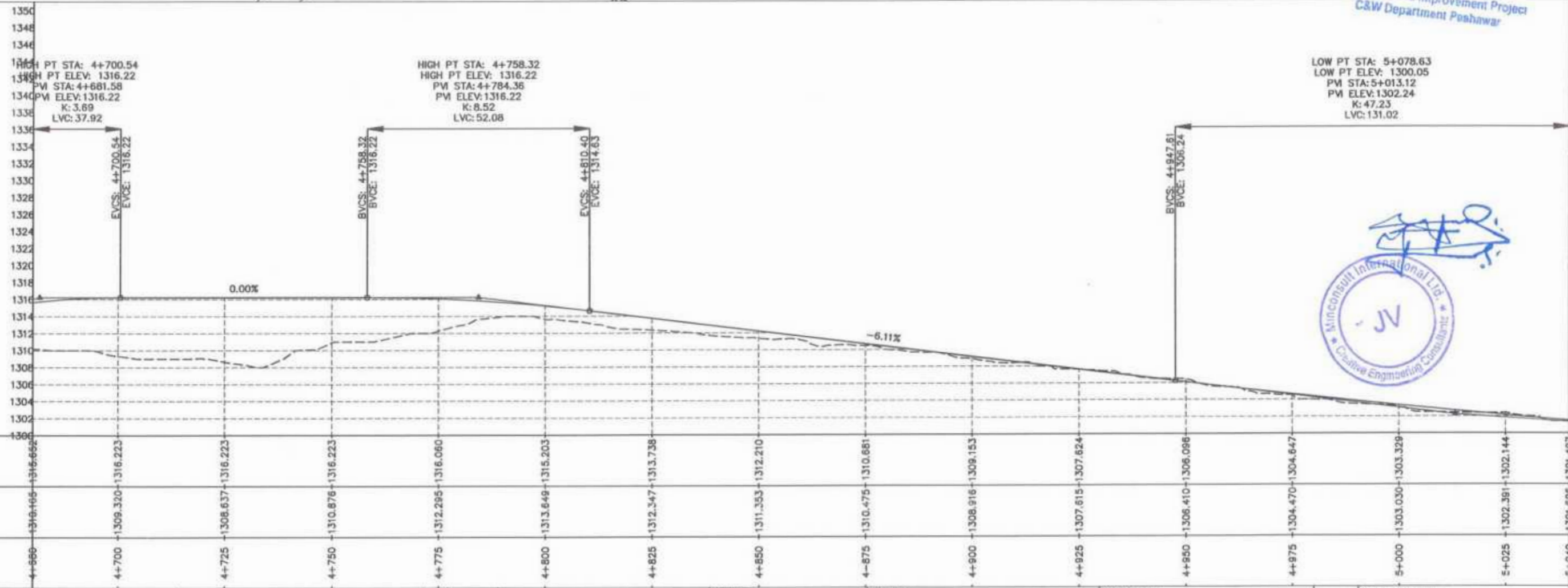
HIGH PT STA: 4+70  
 HIGH PT ELEV: 1311  
 PV STA: 4+681.5  
 PV ELEV: 1316.2  
 K: 3.69  
 LVC: 37.92



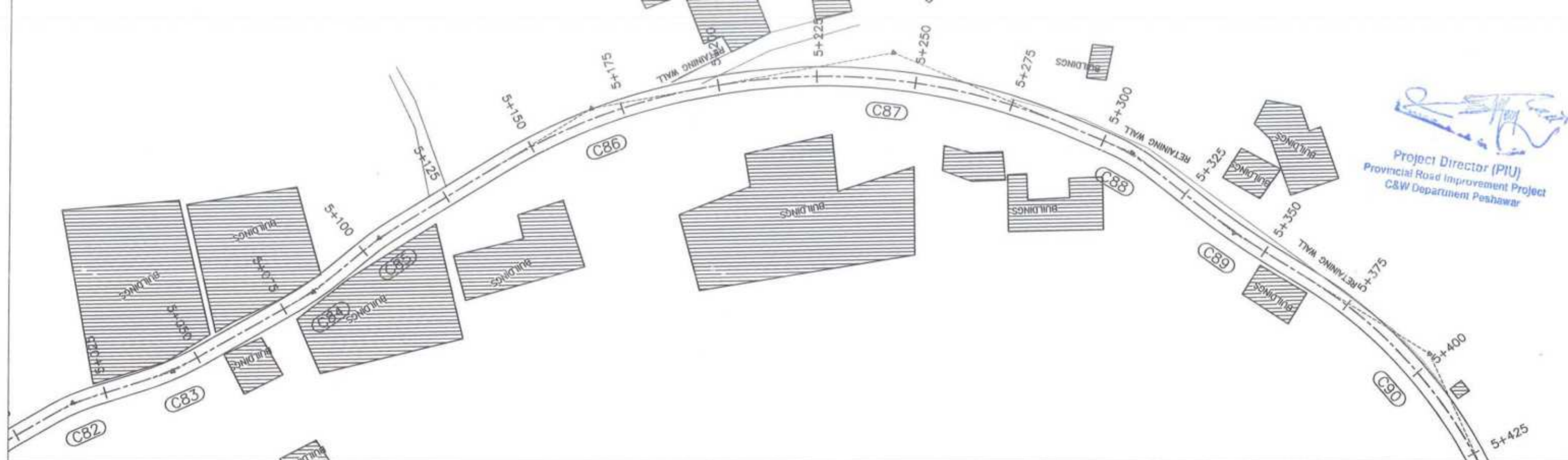
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024.	PLAN & PROFILE 4+320.00 - 4+680.00 CEC/HWKP-RRDP/N_CHT_2/PP/ 13
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										



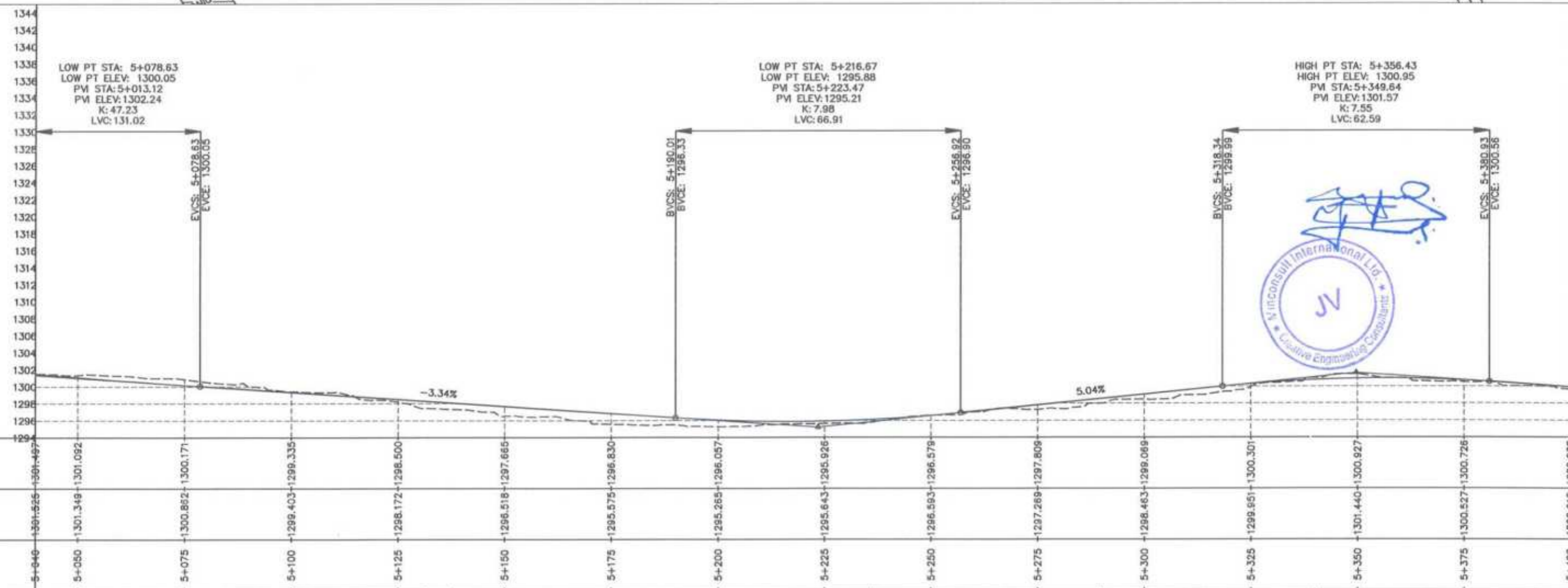
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



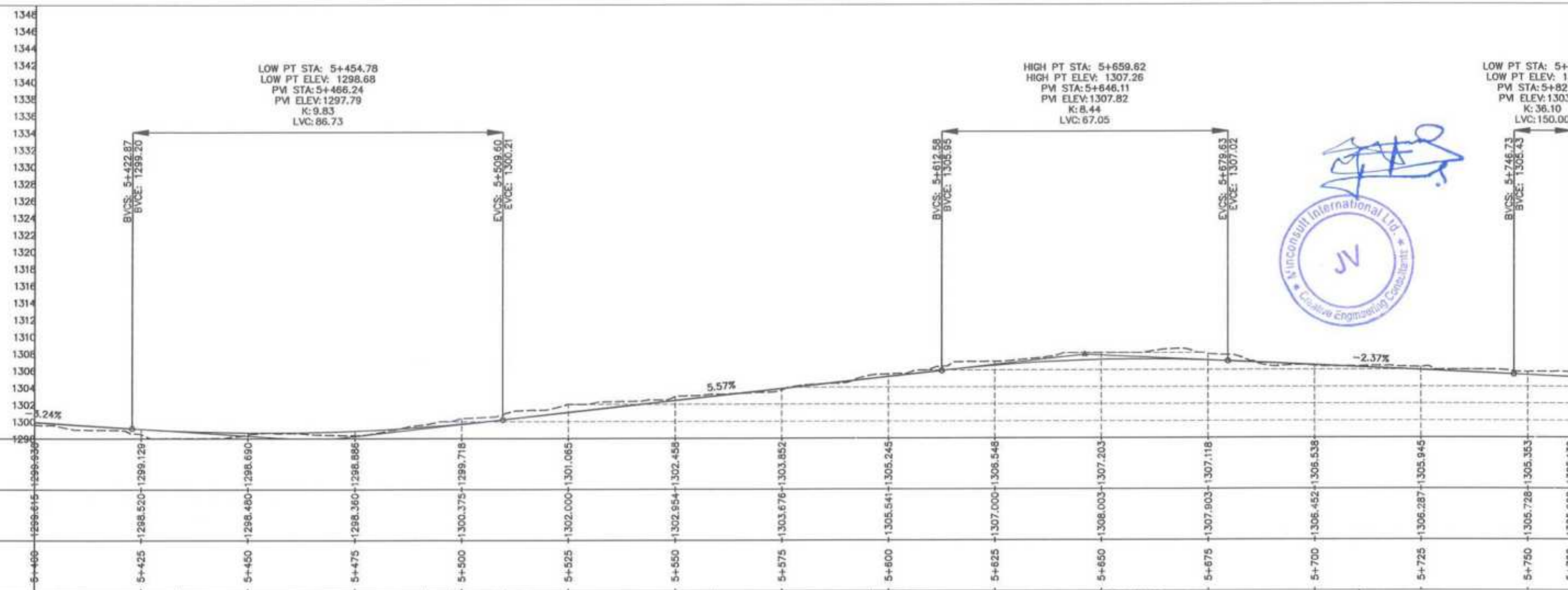
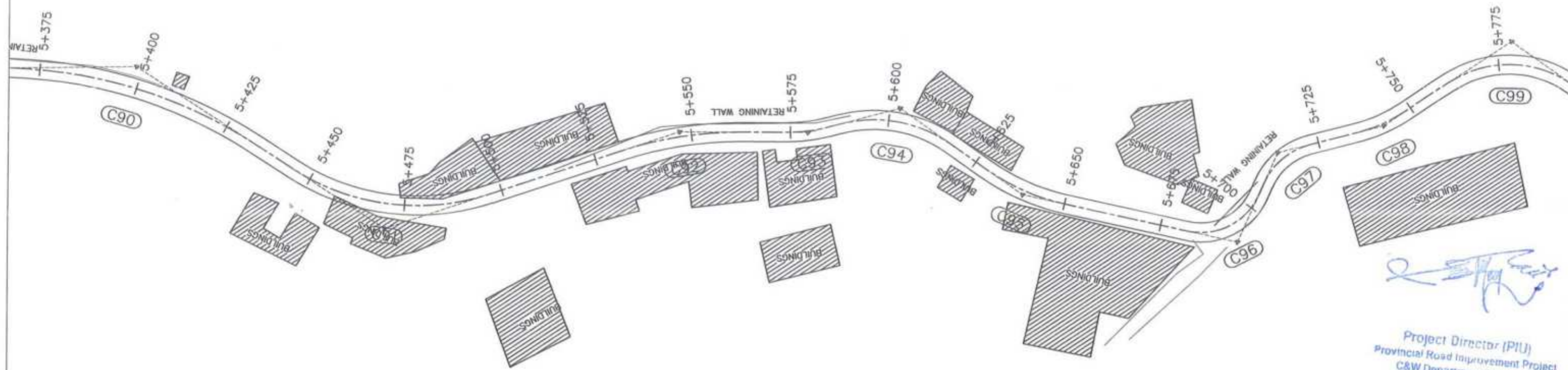
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024.	PLAN & PROFILE 4+680.00 - 5+040.00 CEC/HWKP-RRDP/N_CHT_2/PP/ 14
		a			DRAWN	IMRAN				
		b			CHECKED	AQEEL YOUNIS				
		c			APPROVED	S.DURRANI				



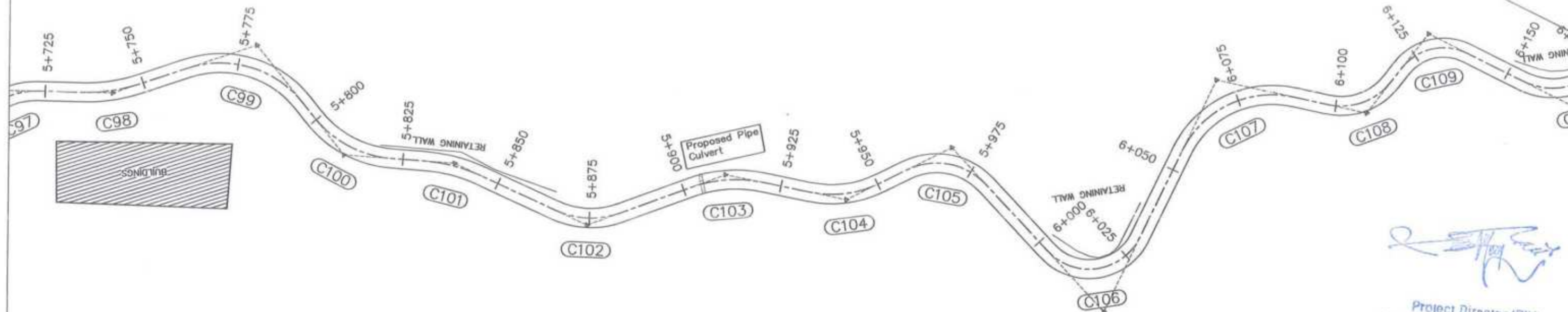
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar



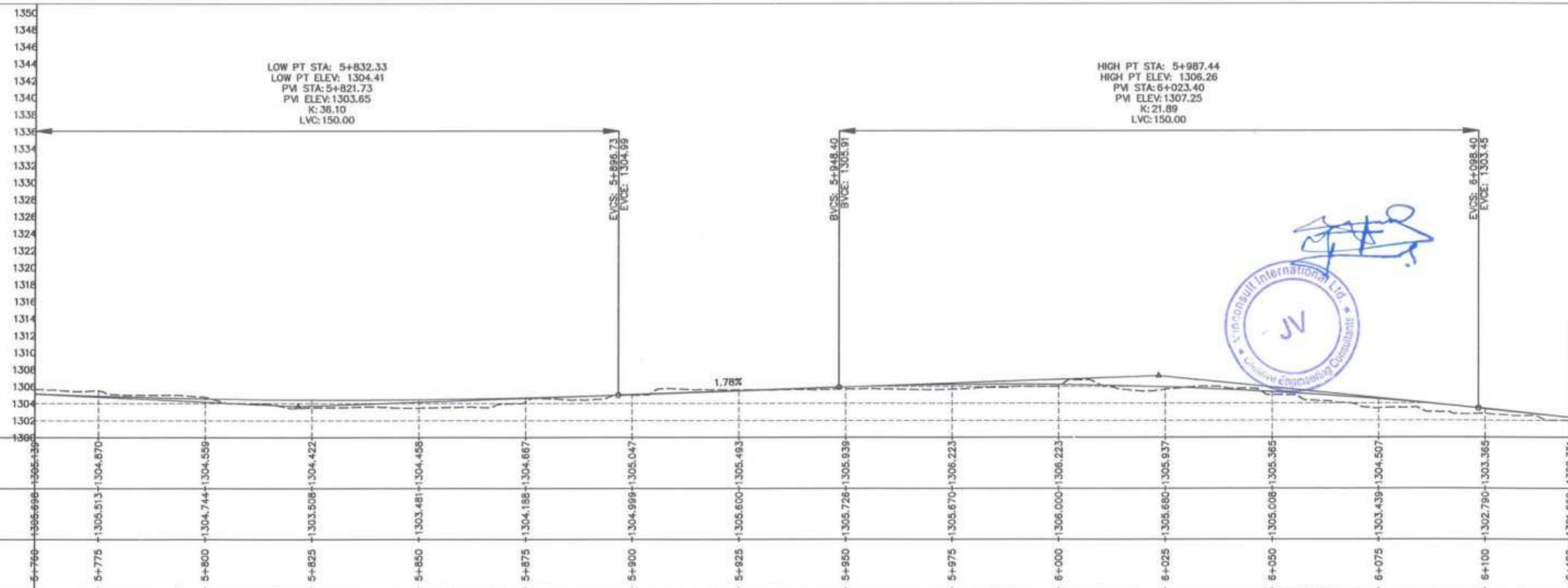
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 5+040.00 - 5+400.00
		a			DRAWN IMRAN		OSAIC TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		ACCESS ROAD	DATE:	
		c			APPROVED S.DURRANI		AUG, 2024.		
									CEC/HW/KP-RRDP/N_CHT_2/PP/ 15



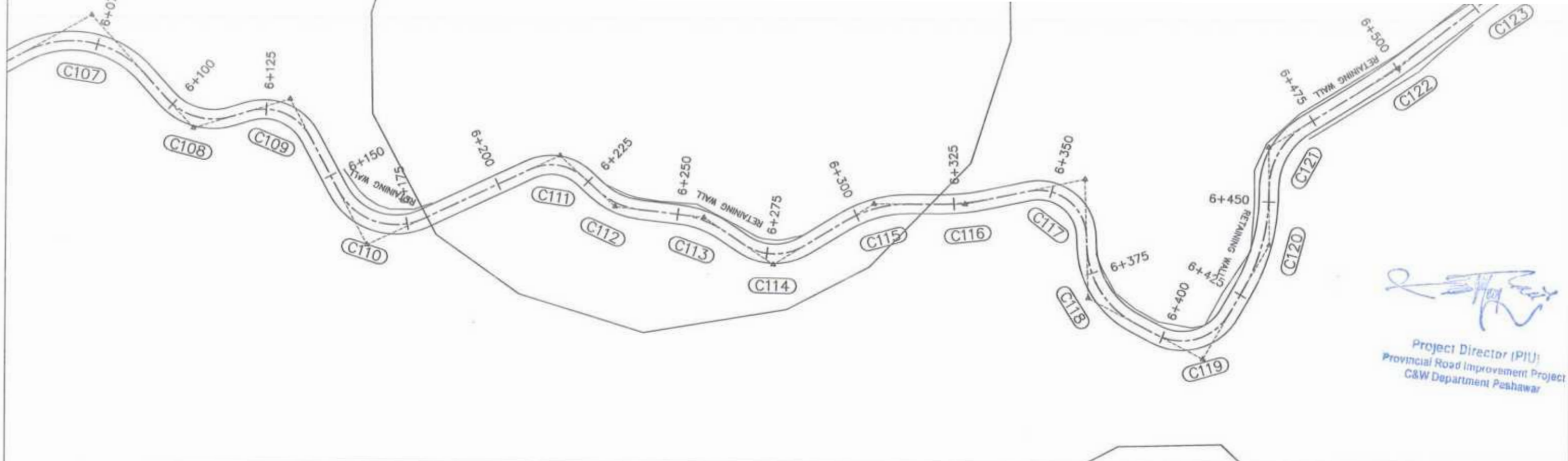
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT: PLAN & PROFILE 5+400.00 - 5+760.00 AUG. 2024. CEC/HW/KP-RRDP/N_CHT_2/PP1 16	
		0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2		H=1:1000
		a			DRAWN	IMRAN		OSAIC TO ORSOON		V=1:500
		b			CHECKED	AQEEL YOUNIS		ACCESS ROAD		DATE:
c			APPROVED	S.DURRANI						



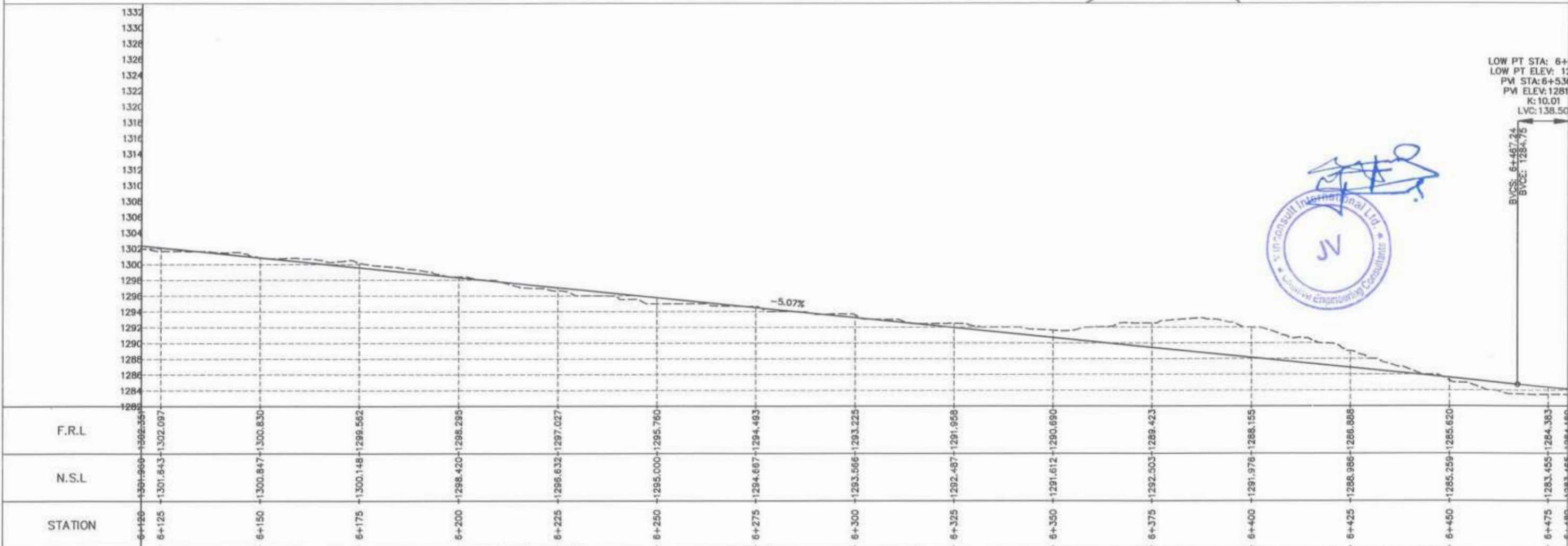
  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



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 TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2  OSAIC TO ORSOON  ACCESS ROAD	H=1:1000 V=1:500	PLAN & PROFILE 5+760.00 - 6+120.00  CEC/HWKP-RRDP/N_CHT_2/PPV 17	
		a			DRAWN IMRAN			CHECKED AQEEL YOUNIS		DATE:
		b			APPROVED S.DURRANI			AUG, 2024		
		c								






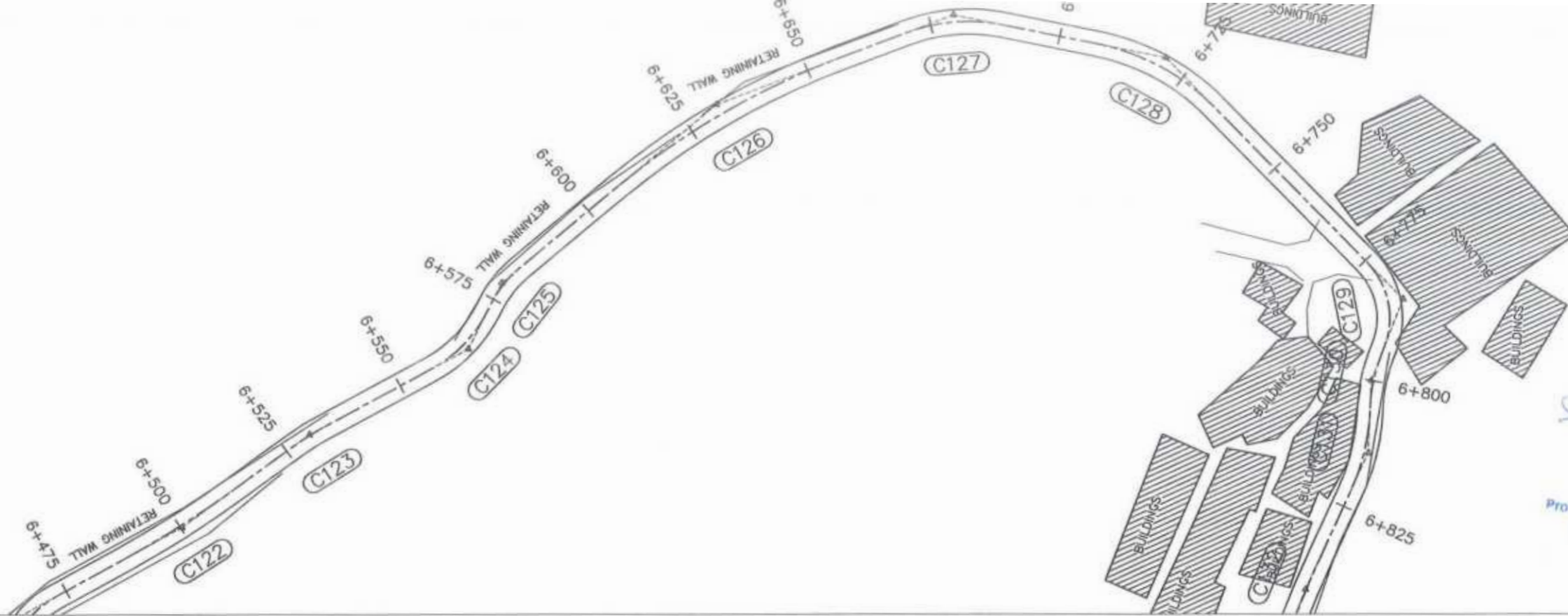
  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



LOW PT STA: 6+  
 LOW PT ELEV: 12  
 PM STA: 6+534  
 PM ELEV: 1281  
 K: 10.01  
 LVC: 138.50

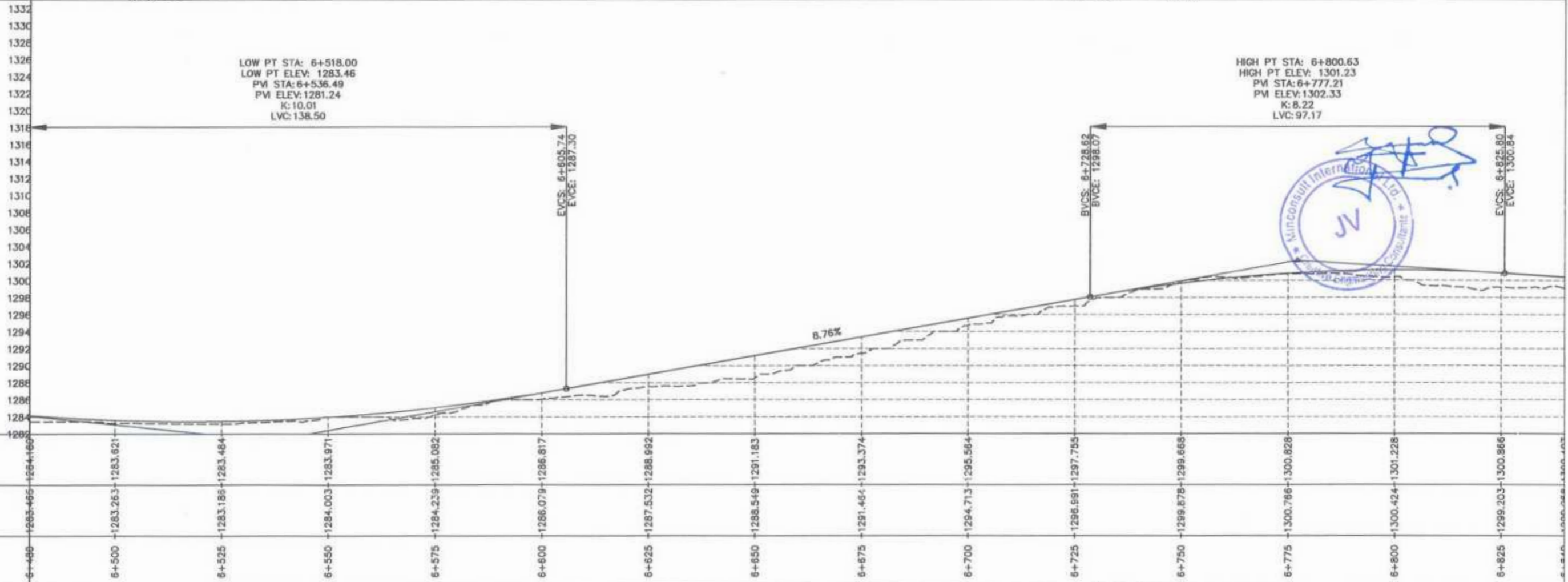


CLIENT:  <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV   DATE   DESCRIPTION 0   AUG. 2024   TENDER DRAWINGS.	NAMES: G.DESIGNED   TANZEEL DRAWN   IMRAN CHECKED   AQEEL YOUNIS APPROVED   S.DURRANI	PROJECT: <b>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</b>	ROAD NAME: <b>N_CHT_2</b> <b>OSAIC TO ORSOON</b> <b>ACCESS ROAD</b>	SCALE: H=1:1000 V=1:500 DATE: AUG. 2024.	SHEET CONTENT: <b>PLAN &amp; PROFILE</b> <b>6+120.00 - 6+480.00</b> CEC/HW/KP-RRDP/N_CHT_2/PP/ 18
---	---	--	---	--	--	--	--



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

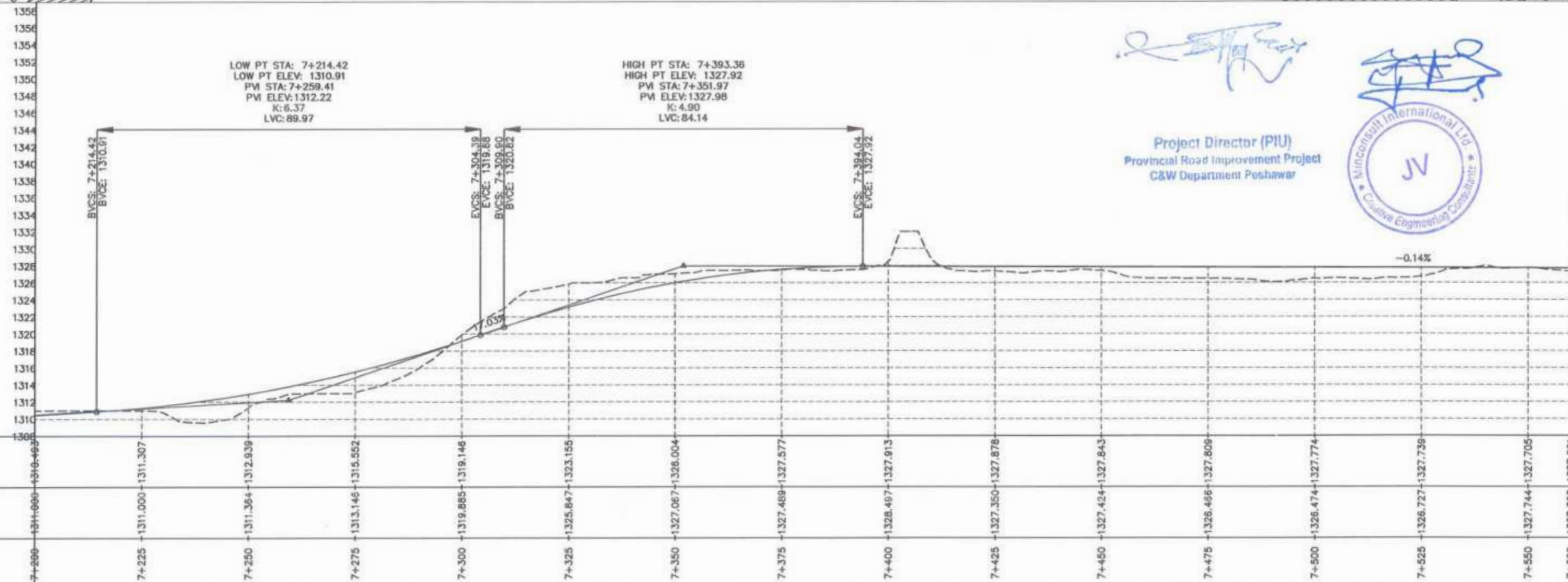
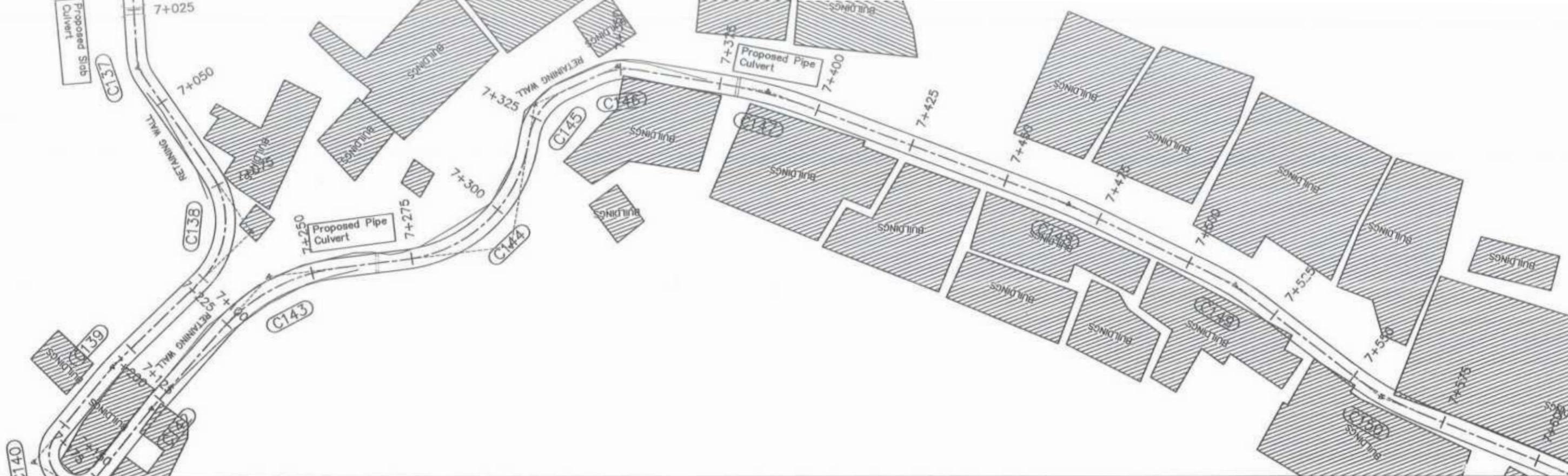
50



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA</p> <p>COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 5835-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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024	PLAN & PROFILE 6+480.00 - 6+840.00 CEC/HW/KP-RRDP/N_CHT_2/PPV/ 19
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S. DURRANI										





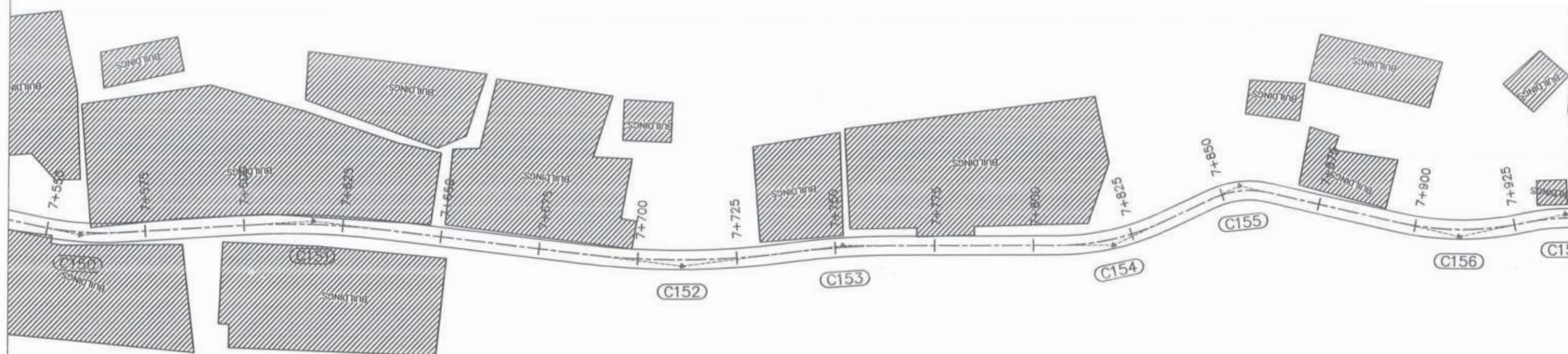


*[Handwritten Signature]*

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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2		H=1:1000	PLAN & PROFILE 7+200.00 - 7+560.00
		a			DRAWN	IMRAN		OSAIC TO ORSOON		V=1:500	
		b			CHECKED	AQEEL YOUNIS		ACCESS ROAD		DATE:	
c			APPROVED	S.DURRANI	AUG, 2024	CEC/HWKP-RRDP/N_CHT_2/PII					



1368  
1366  
1364  
1362  
1360  
1358  
1356  
1354  
1352  
1350  
1348  
1346  
1344  
1342  
1340  
1338  
1336  
1334  
1332  
1330  
1328  
1326  
1324  
1322  
1320  
1318

HIGH PT STA: 7+652.09  
HIGH PT ELEV: 1327.56  
PM STA: 7+727.09  
PM ELEV: 1327.46  
K: 41.18  
LVC: 150.00



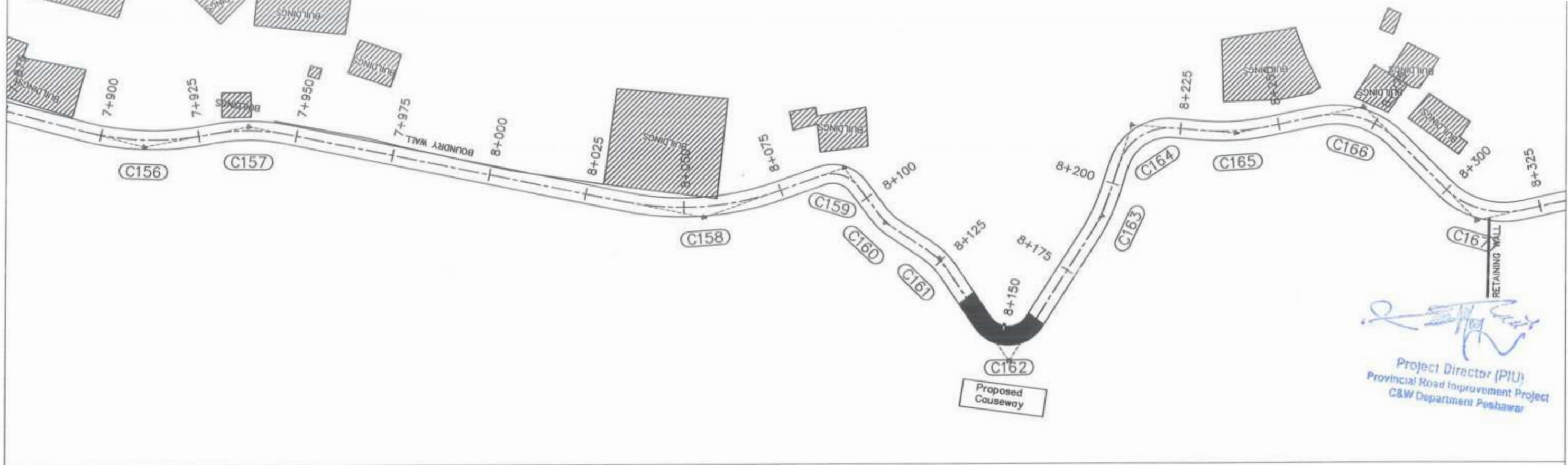
*[Signature]*  
Project Director (PIU)  
Provincial Road Improvement Project  
C&W Department Peshawar



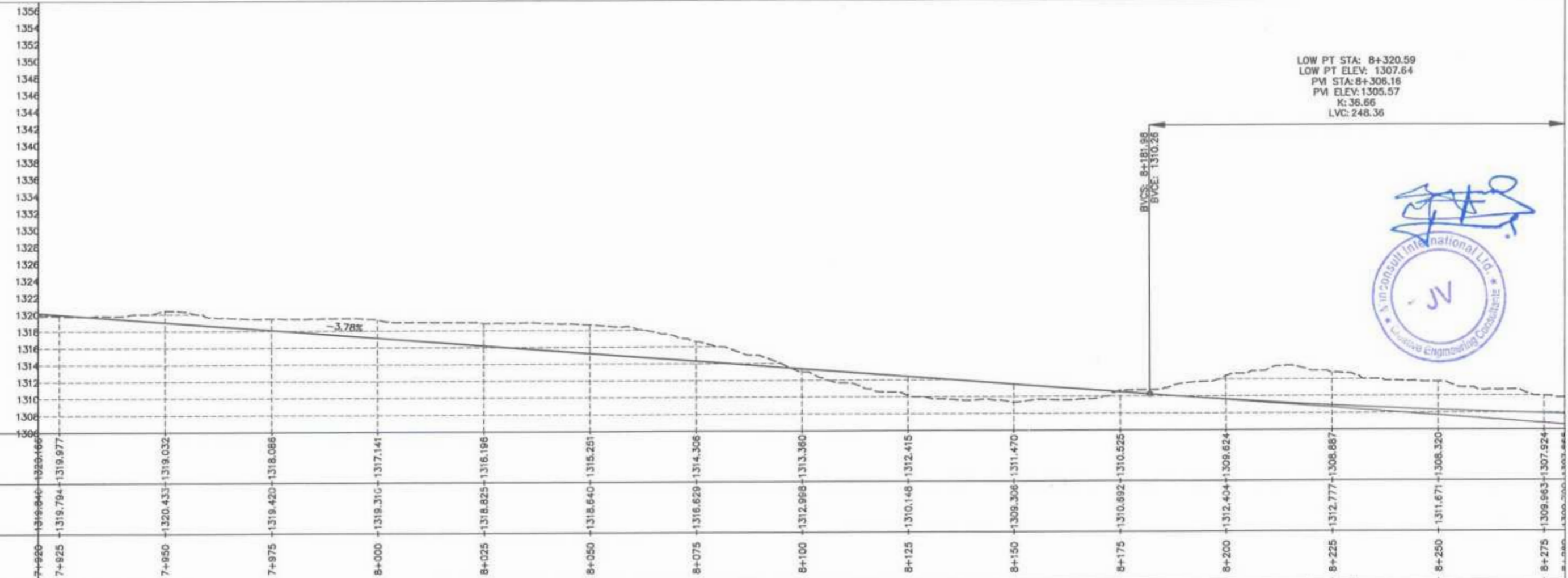
F.R.L  
N.S.L  
STATION

F.R.L	1327.666	1327.670	1327.635	1327.601	1327.566	1327.468	1327.218	1326.817	1326.264	1325.556	1324.702	1323.758	1322.812	1321.867	1320.922	1320.468
N.S.L	1327.362	1328.486	1329.534	1328.664	1328.572	1328.549	1327.977	1327.699	1326.739	1326.522	1325.997	1324.136	1321.980	1321.000	1320.383	1319.840
STATION	7+666	7+675	7+680	7+685	7+650	7+675	7+700	7+725	7+750	7+775	7+800	7+825	7+850	7+875	7+900	7+925

<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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024.	PLAN & PROFILE 7+560.00 - 7+920.00 CEC/HW/KP-RRDP/N_CHT_2/PP/ 22
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										

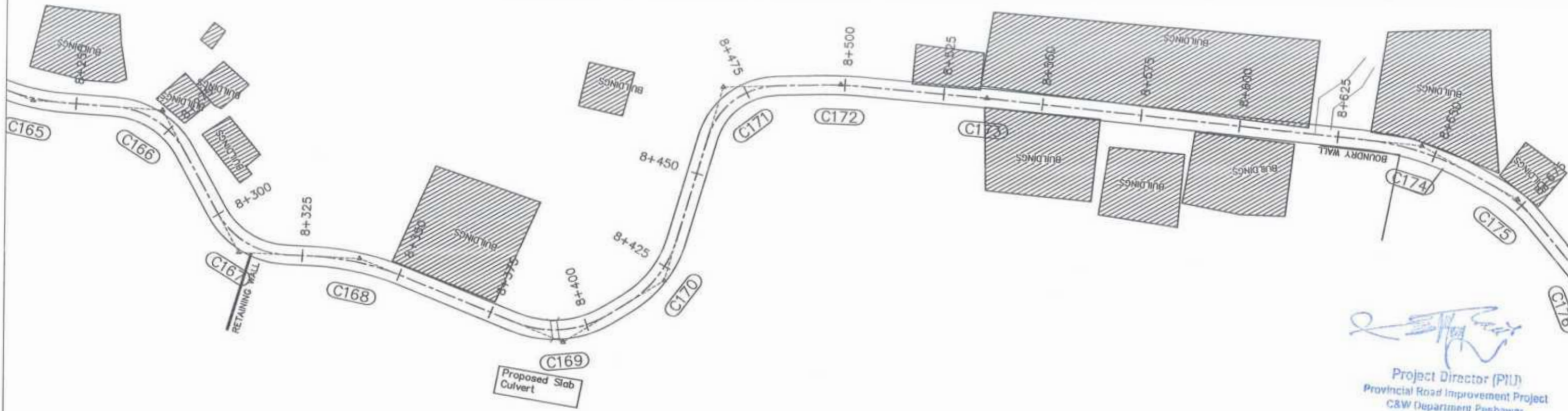


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

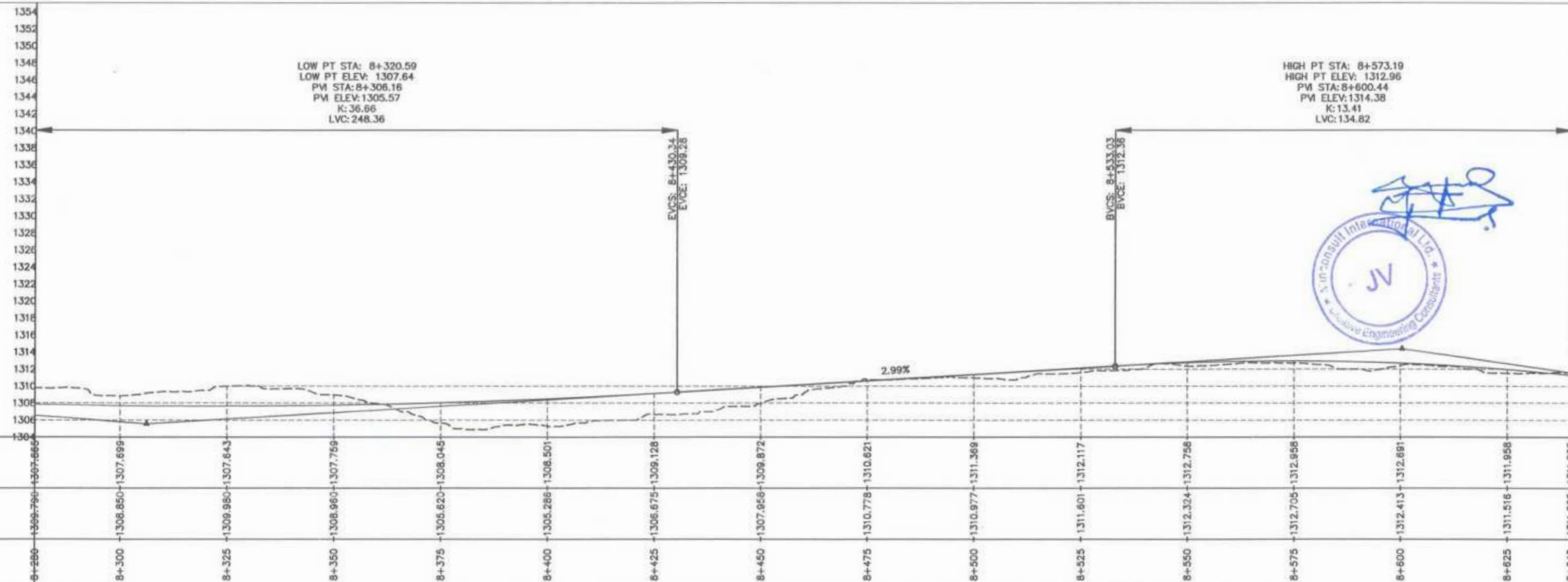


LOW PT STA: 8+320.59  
 LOW PT ELEV: 1307.64  
 PVI STA: 8+308.16  
 PVI ELEV: 1305.57  
 K: 36.66  
 LVC: 248.36




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. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 7+920.00 - 8+280.00 AUG. 2024 CEC/HWKP-RRDP/N_CHT_2/PP/ 23
		a			DRAWN IMRAN		OSAIC TO ORSOON	V=1:500	
		b			CHECKED AGEEL YOUNIS		ACCESS ROAD	DATE:	
		c			APPROVED S.DURRANI			AUG. 2024	

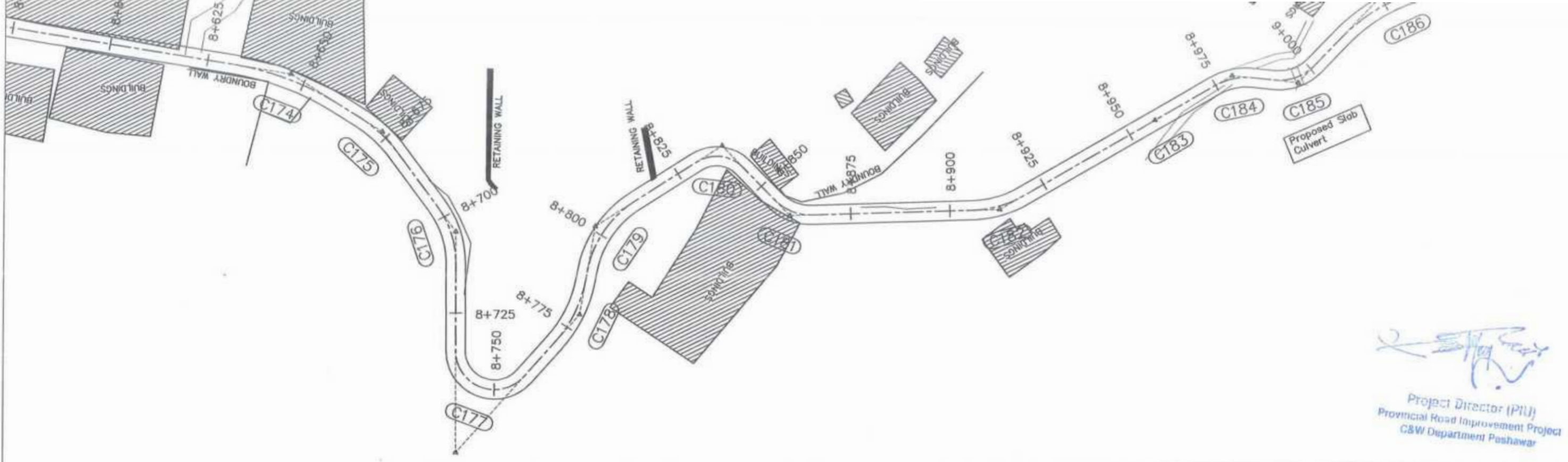


  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

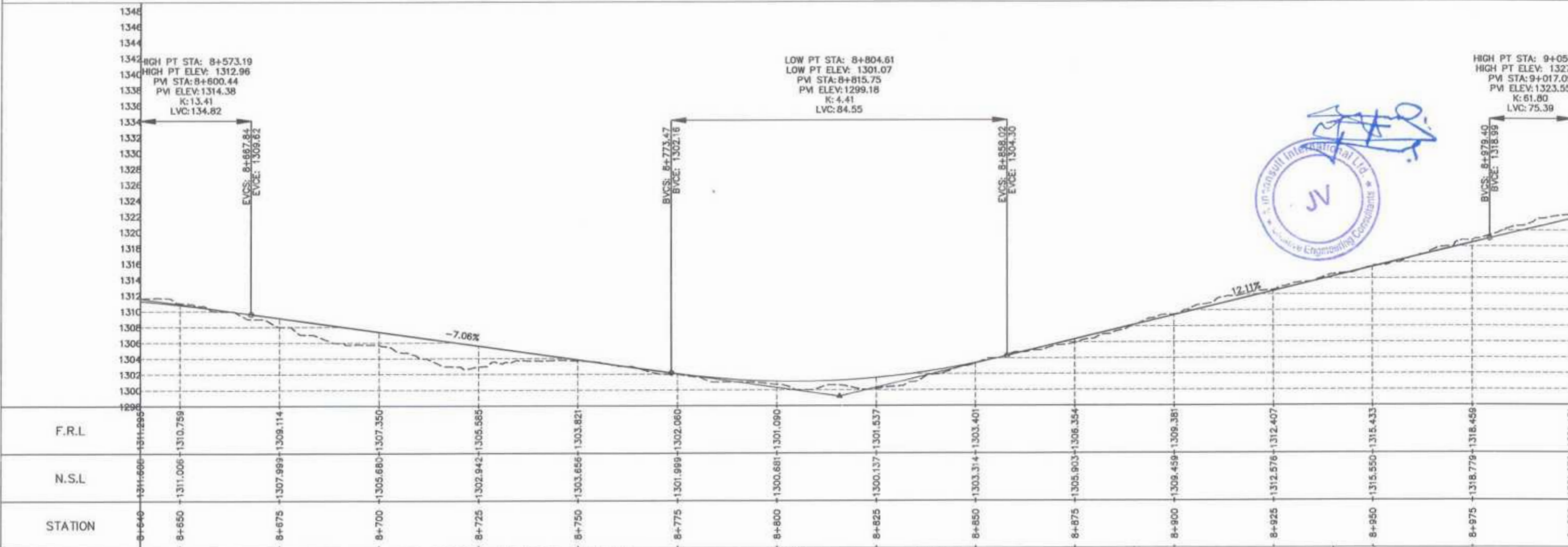



  


 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV: 0 DATE: AUG, 2024 DESCRIPTION: TENDER DRAWINGS.	NAMES: G.DESIGNED: TANZEEL DRAWN: IMRAN CHECKED: AQEEL YOUNIS APPROVED: S DURRANI	PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	ROAD NAME: N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	SCALE: H=1:1000 V=1:500 DATE: AUG, 2024	SHEET CONTENT: PLAN & PROFILE 8+280.00 - 8+640.00 CEC/HWKP-RRDP/N_CHT_2/PPV 24
--	---	--	---	---	---	---	---

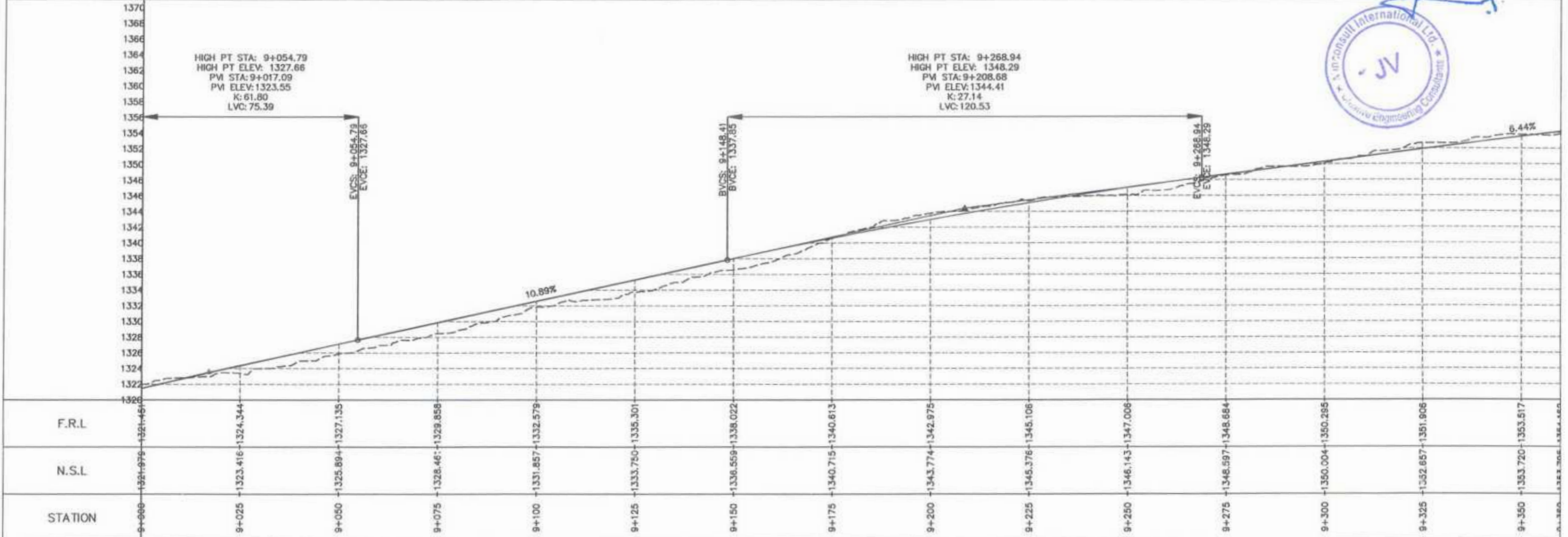
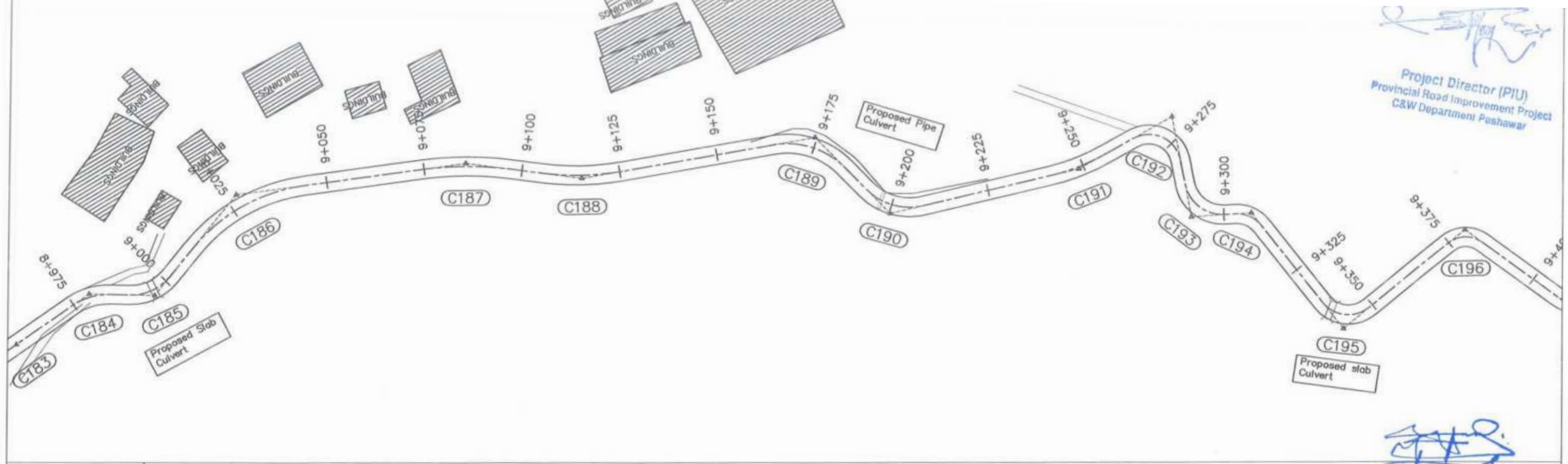


  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

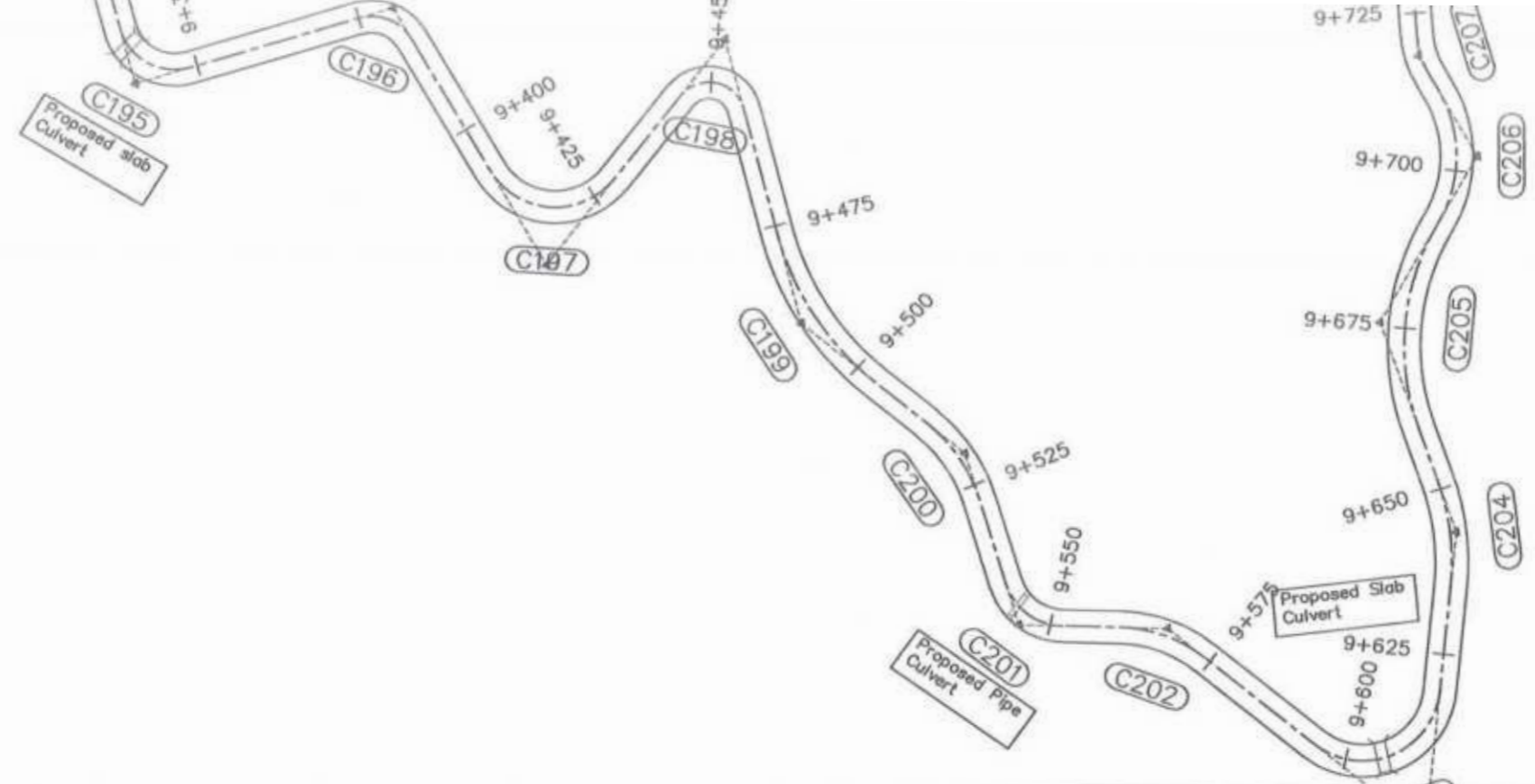


 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 8+640.00 - 9+000.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										
								ACCESS ROAD	AUG, 2024	CEC/HW/KP-RRDP/N_CHT_2/PP/ 25				

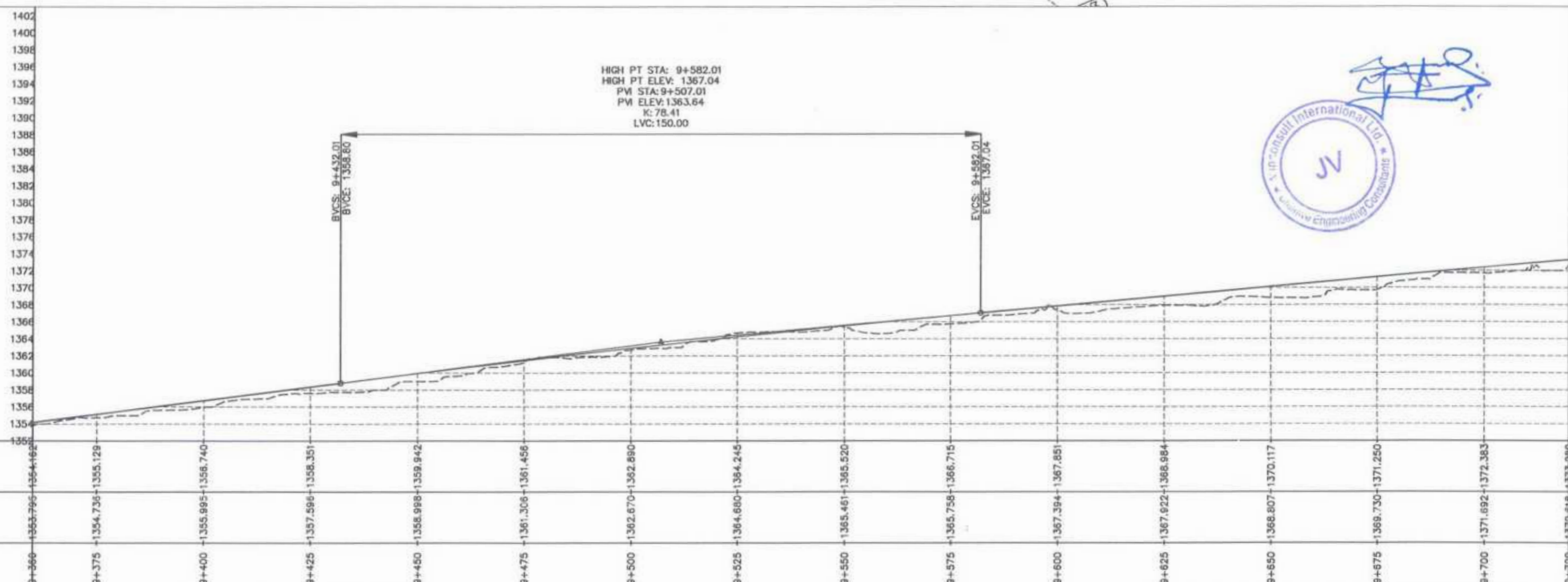
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



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. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	<b>N_CHT_2</b> OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500	PLAN & PROFILE 9+000.00 - 9+360.00	
		a			DRAWN	IMRAN		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:
		b			CHECKED	AQEEL YOUNIS				AUG, 2024
		c			APPROVED	S.DURRANI				CEC/HWKP-RRDP/N_CHT_2/PP/ 26



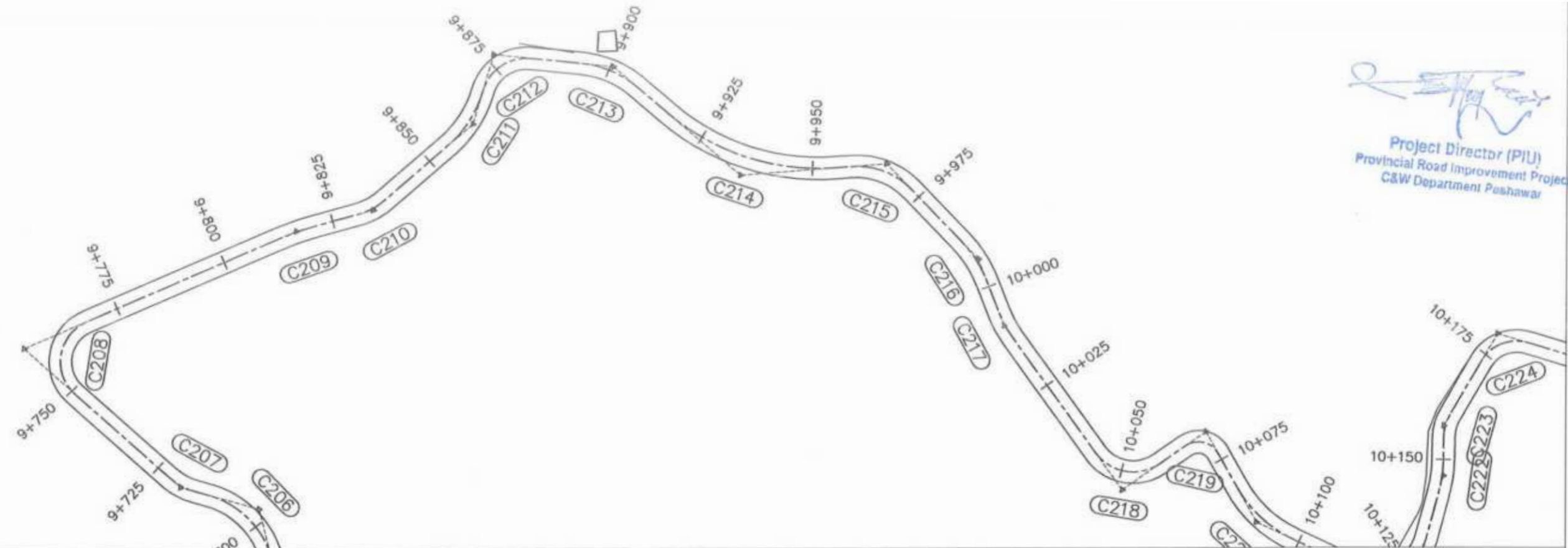
*[Signature]*  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



*[Signature]*  
  
 JN  
 JN Engineering Consultants  
 Jeddah, Saudi Arabia

CLIENT:  <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT:  <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024.	PLAN & PROFILE 9+360.00 - 9+720.00 CEC/HW/KP-RRDP/N_CHT_3/PIU 27
		a			DRAWN	IMRAN				
		b			CHECKED	AGEEL YOUNIS				
c			APPROVED	S.DURRANI						

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



1422  
1420  
1418  
1416  
1414  
1412  
1410  
1408  
1406  
1404  
1402  
1400  
1398  
1396  
1394  
1392  
1390  
1388  
1386  
1384  
1382  
1380  
1378  
1376  
1374  
1372

HIGH PT STA: 10+124.09  
 HIGH PT ELEV: 1390.26  
 PVI STA: 10+040.36  
 PVI ELEV: 1387.81  
 K: 104.46  
 LVC: 167.46

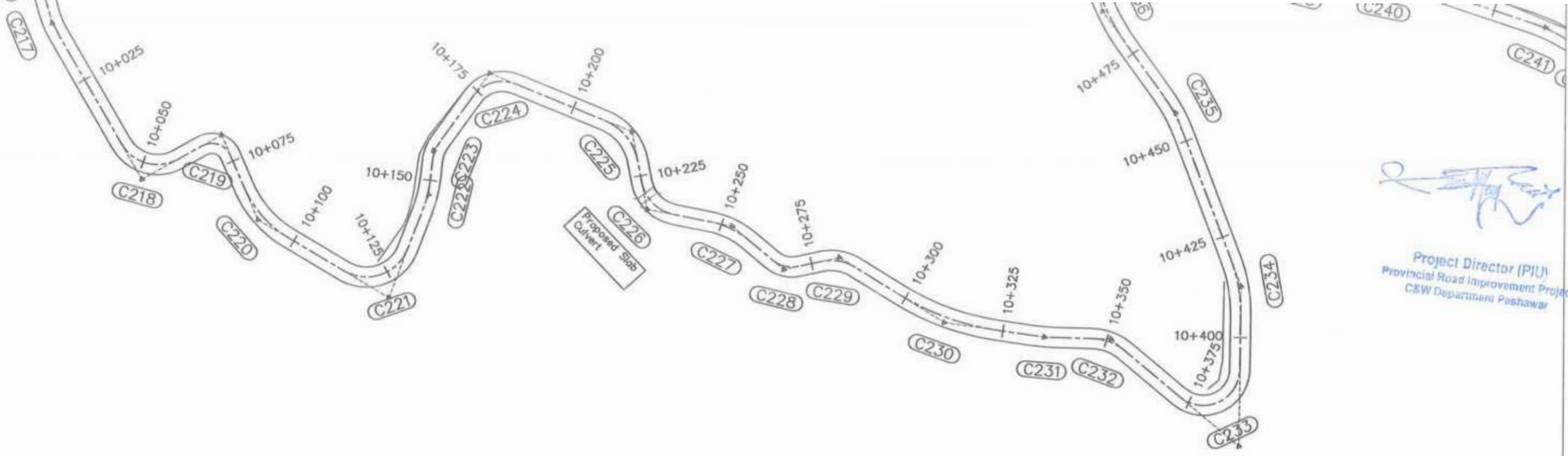
BVCS: 9+955.64  
 BVCE: 1384.01



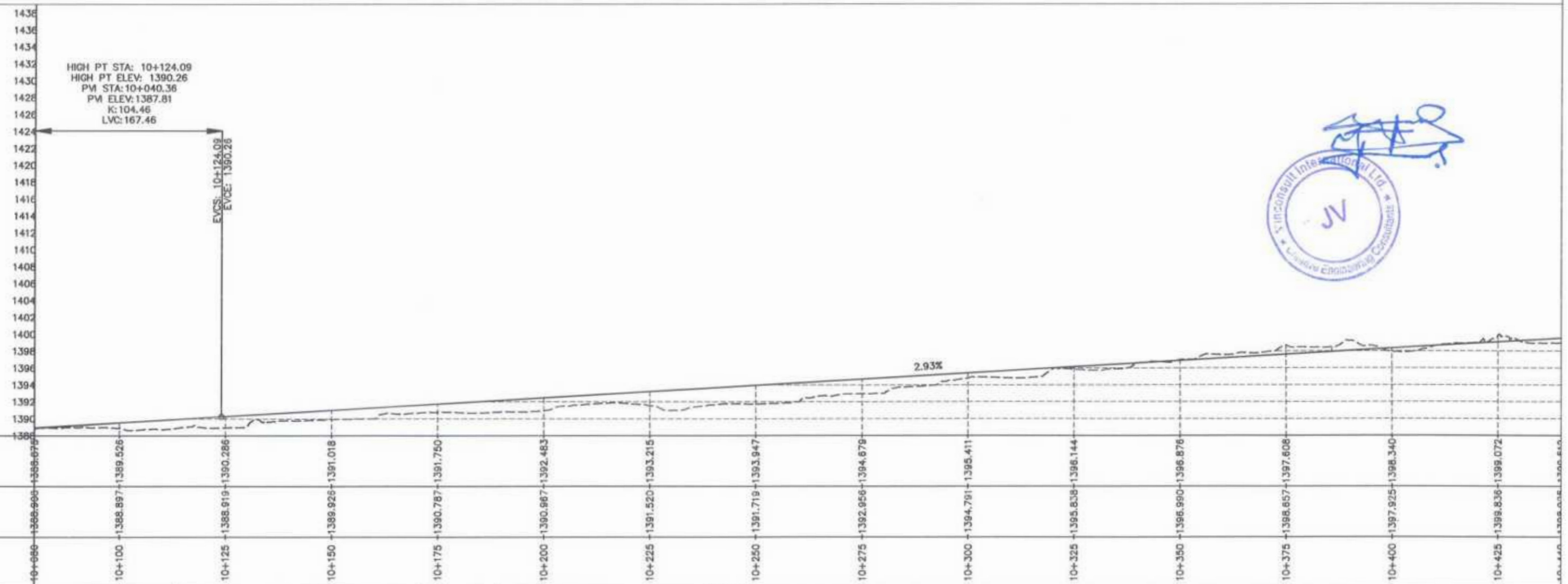
F.R.L	1372.916	1373.269	1372.680	1373.516	1372.979	1374.649	1374.471	1375.781	1375.544	1376.914	1376.698	1378.047	1377.794	1379.180	1379.030	1380.313	1380.721	1381.446	1381.861	1382.579	1383.303	1383.712	1384.694	1384.829	1385.731	1385.668	1386.138	1386.887	1386.997	1387.827	1388.715	1388.706						
N.S.L	1372.916	1373.269	1372.680	1373.516	1372.979	1374.649	1374.471	1375.781	1375.544	1376.914	1376.698	1378.047	1377.794	1379.180	1379.030	1380.313	1380.721	1381.446	1381.861	1382.579	1383.303	1383.712	1384.694	1384.829	1385.731	1385.668	1386.138	1386.887	1386.997	1387.827	1388.715	1388.706						
STATION	9+725	9+725	9+750	9+750	9+775	9+775	9+800	9+800	9+825	9+825	9+850	9+850	9+875	9+875	9+900	9+900	9+925	9+925	9+950	9+950	9+975	9+975	10+000	10+000	10+025	10+025	10+050	10+050	10+075	10+075	10+100	10+100	10+125	10+125	10+150	10+150	10+175	10+175

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. 56835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	<b>KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)</b> <b>N_CHT_2</b> <b>OSAIC TO ORSOON</b> <b>ACCESS ROAD</b>	H=1:1000	<b>PLAN &amp; PROFILE</b> 9+720.00 - 10+080.00 AUG. 2024 CEC/HWKP-RRDP/N_CHT_2/PP1 28	
		a			DRAWN	IMRAN				V=1:500
		b			CHECKED	AGEEL YOUNIS				DATE:
		c			APPROVED	S.DURRANI				

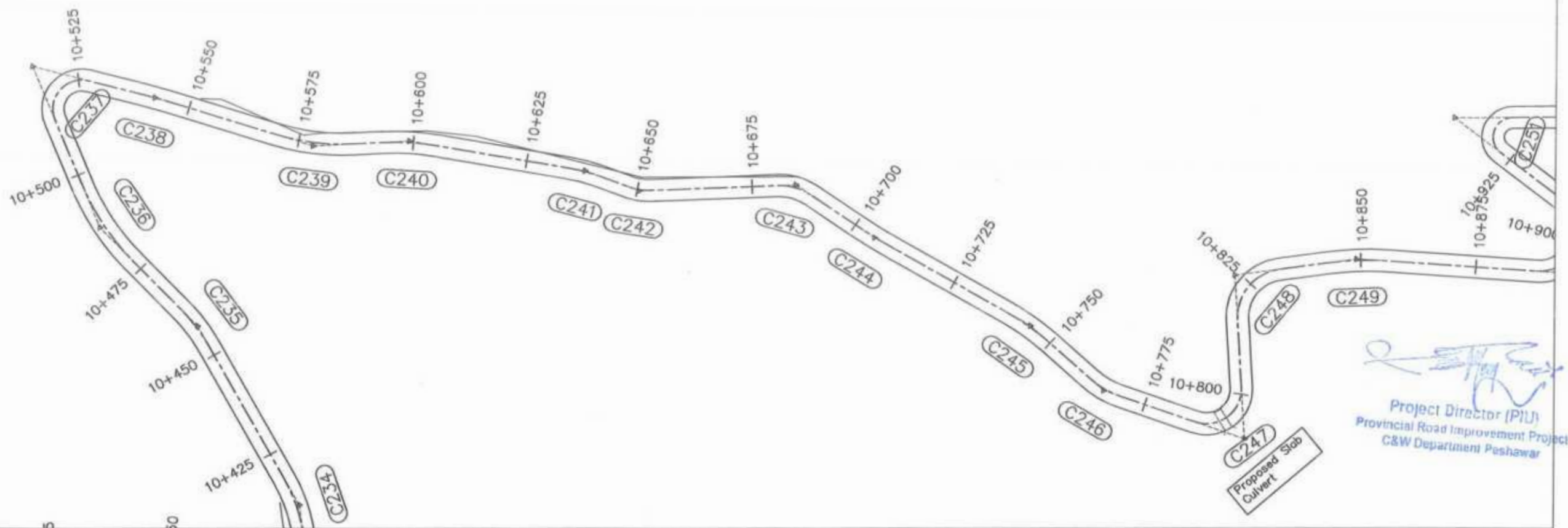




Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



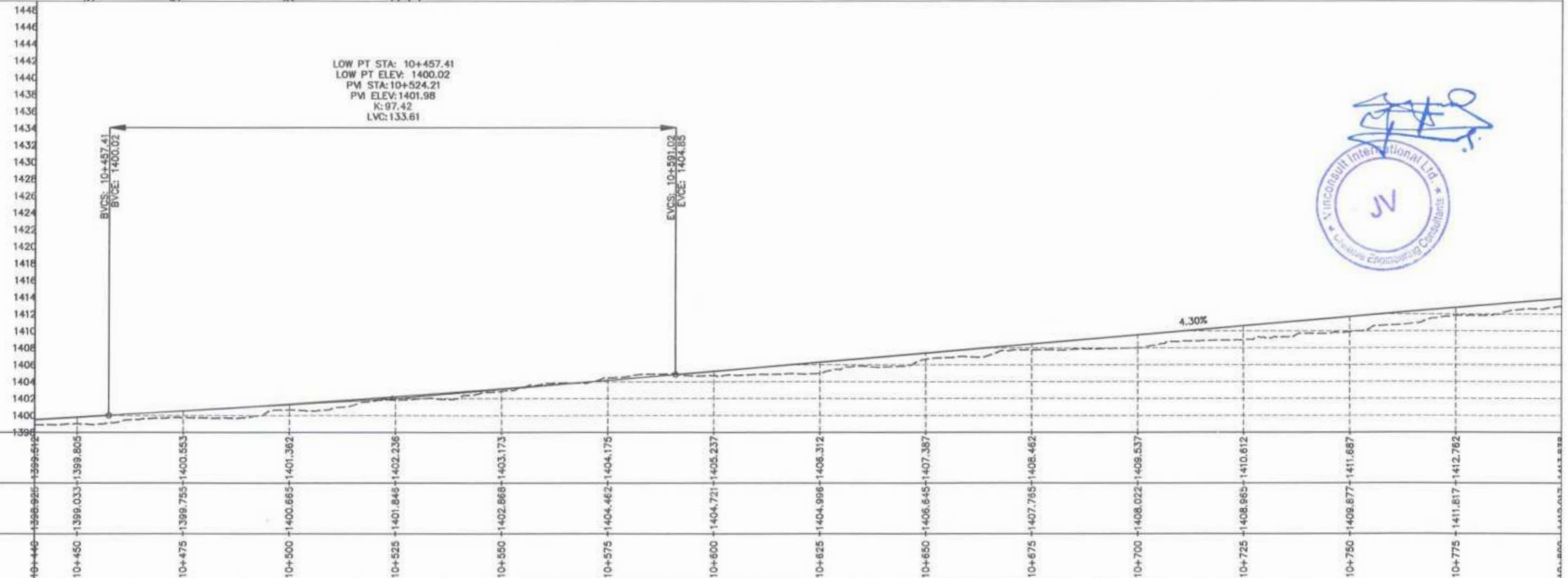
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 10+080.00 - 10+440.00
		a			DRAWN IMRAN		OSAIC TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		ACCESS ROAD	DATE:	
		c			APPROVED S.DURRANI			AUG, 2024.	



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



LOW PT STA: 10+457.41  
 LOW PT ELEV: 1400.02  
 PM STA: 10+524.21  
 PM ELEV: 1401.98  
 K: 97.42  
 LVC: 133.61

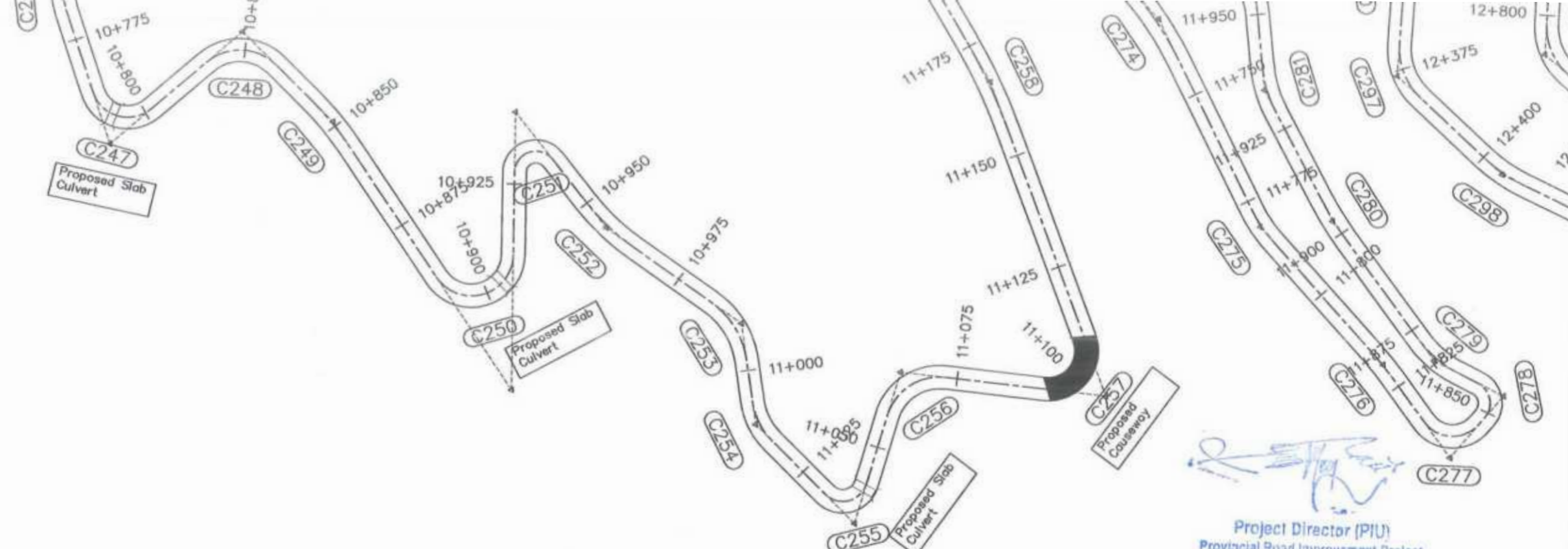


F.R.L

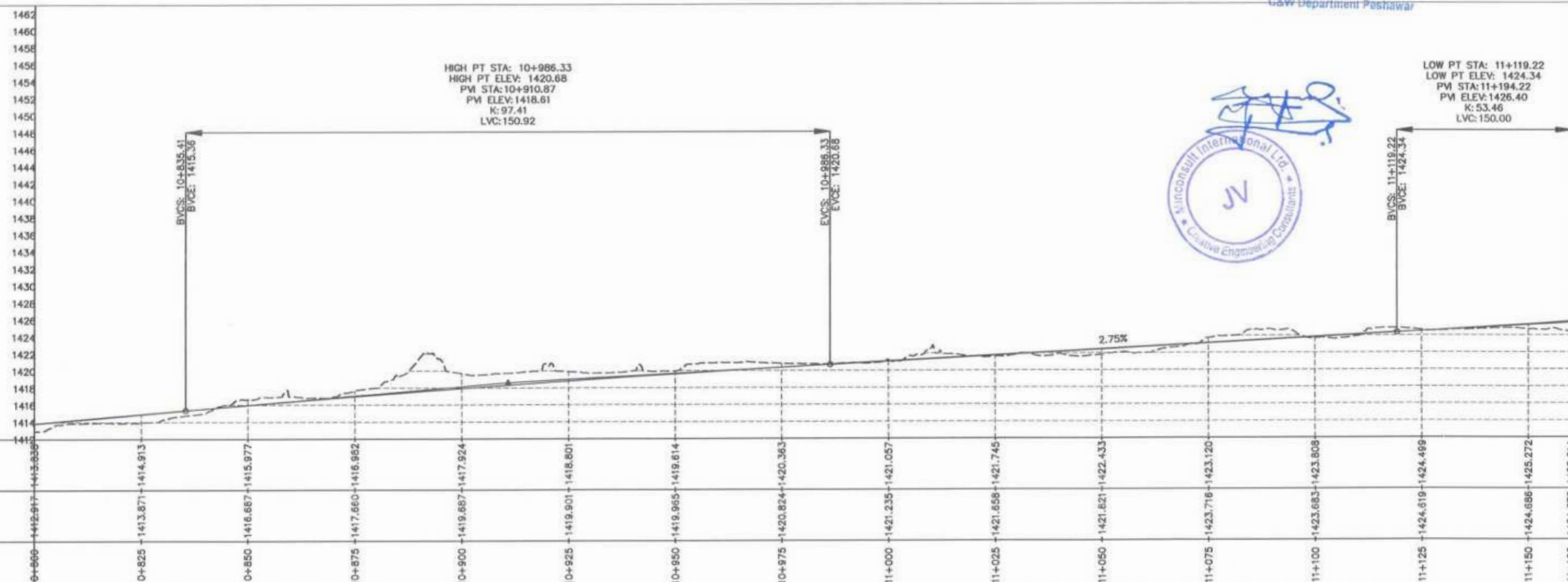
N.S.L

STATION

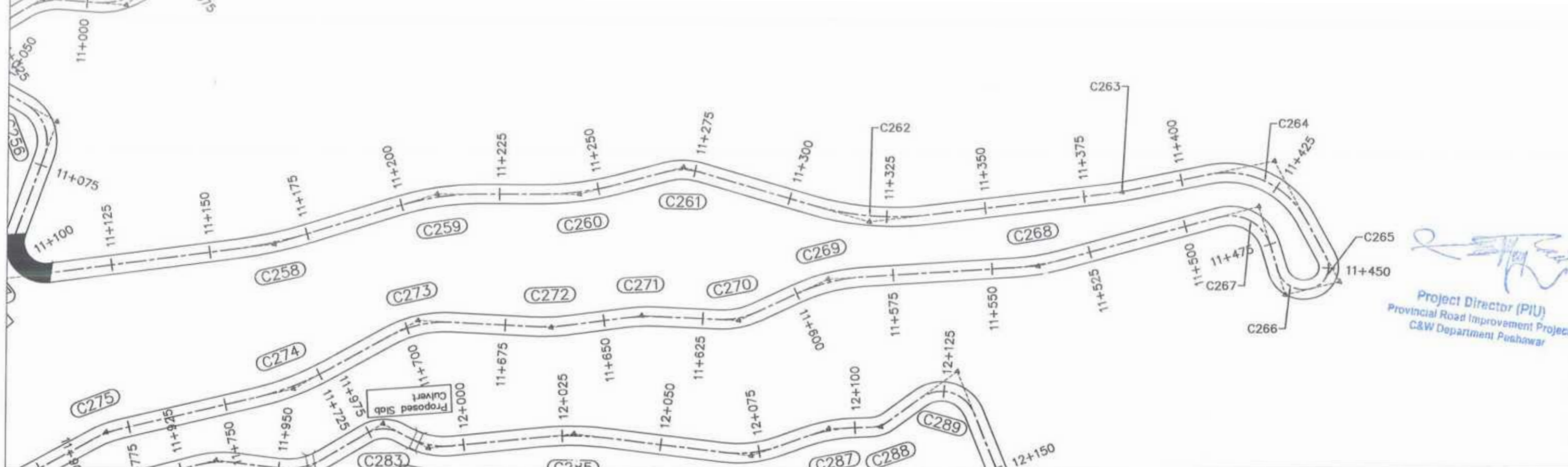
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 10+440.00 - 10+800.00
		a			DRAWN IMRAN		OSAIC TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		ACCESS ROAD	DATE:	
		c			APPROVED S.DURRANI			AUG, 2024.	
									CEC/HWKP-RRDP/N_CHT_2/PP1 30



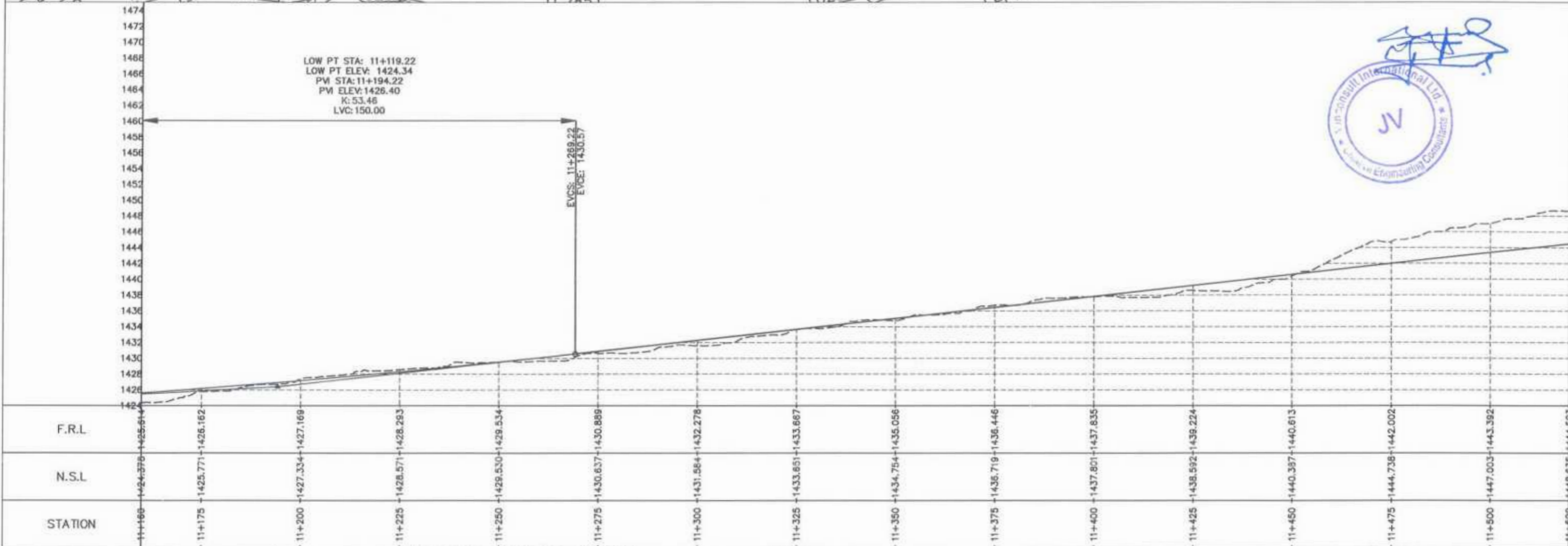
Project Director (PIU)  
 Provincial Road Improvement Project  
 G&W Department Peshawar



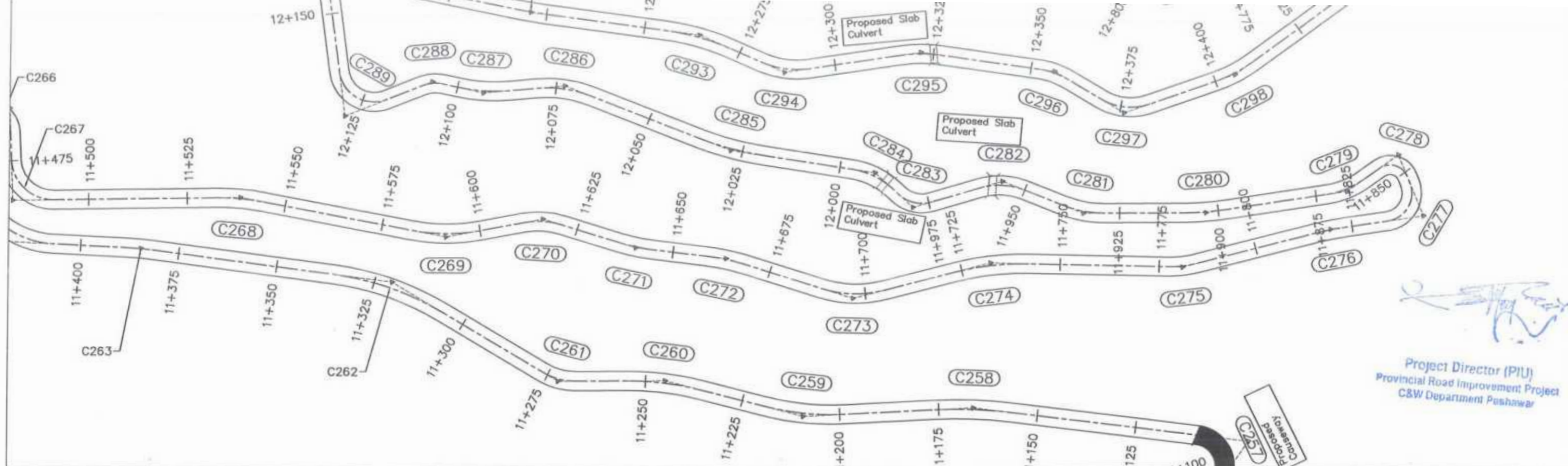
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
<b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	<b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	<b>N_CHT_2</b> OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500	PLAN & PROFILE 10+800.00 - 11+160.00	
		a			DRAWN	IMRAN		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:
		b			CHECKED	AQEEL YOUNIS				AUG, 2024
		c			APPROVED	S.DURRANI				CEC/HW/KP-RRDP/N_CHT_2/PP/ 31



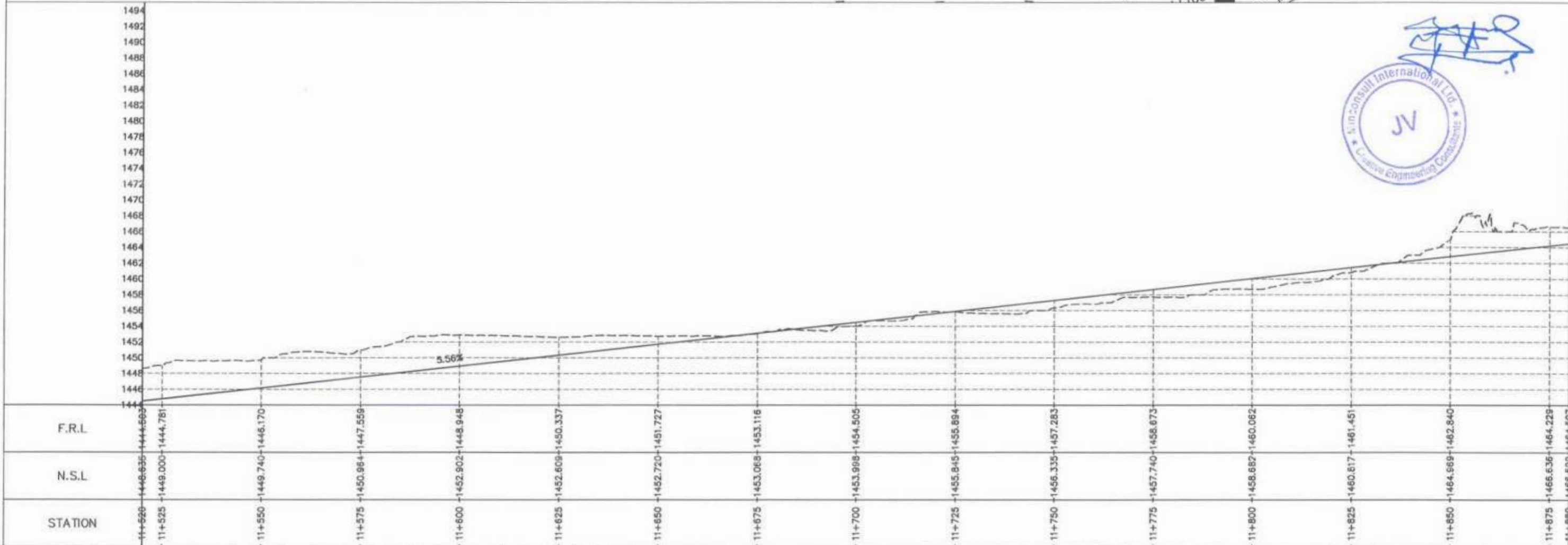
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



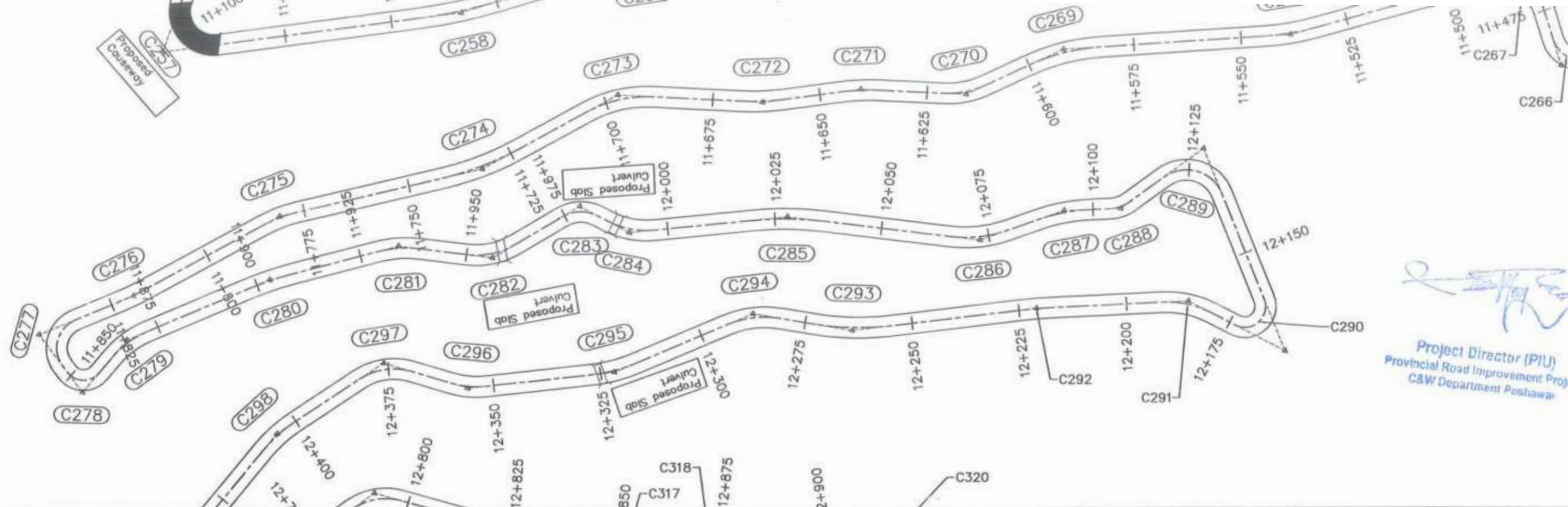
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 56825-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 11+160.00 - 11+520.00
		a			DRAWN IMIRAN		V=1:500		
		b			CHECKED AQEEL YOUNIS		DATE:		
		c			APPROVED S.DURRANI		AUG, 2024.		
							ACCESS ROAD		CEC/HW/KP-RRDP/N_CHT_2/PP/ 32



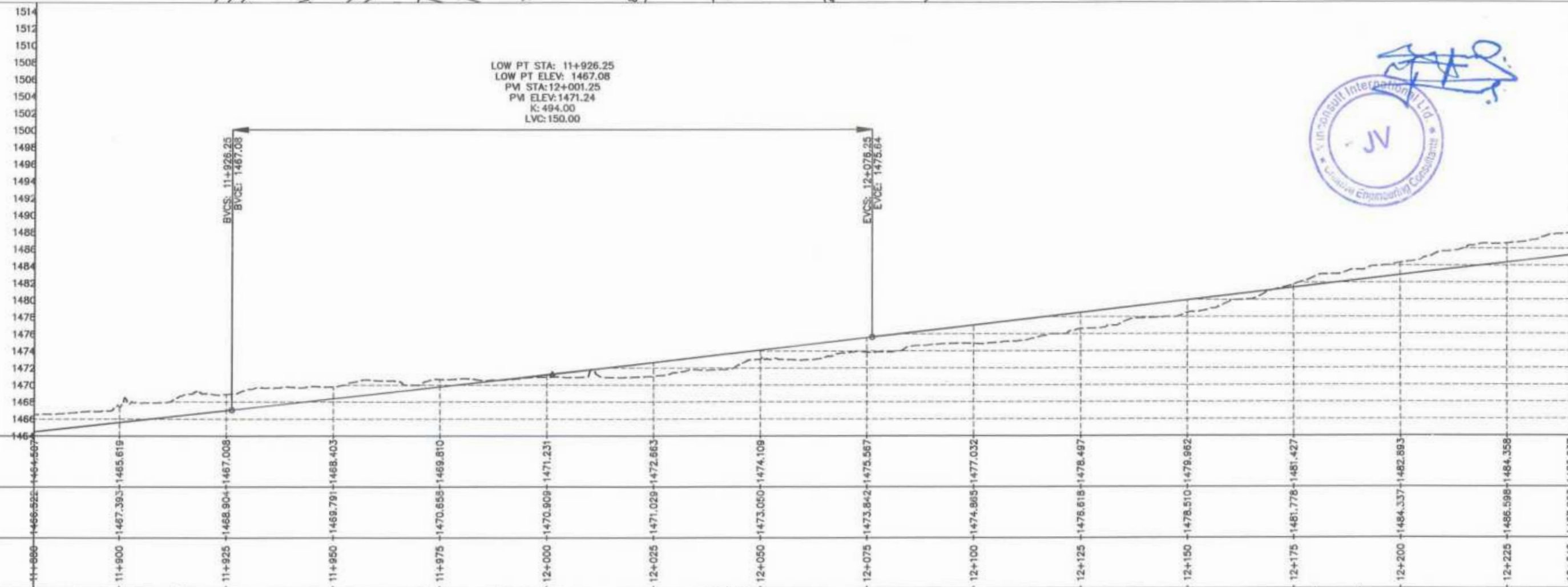
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



<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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024.	
		a			DRAWN	IMRAN				
		b			CHECKED	AOEEL YOUNIS				
c			APPROVED	S.DURRANI						



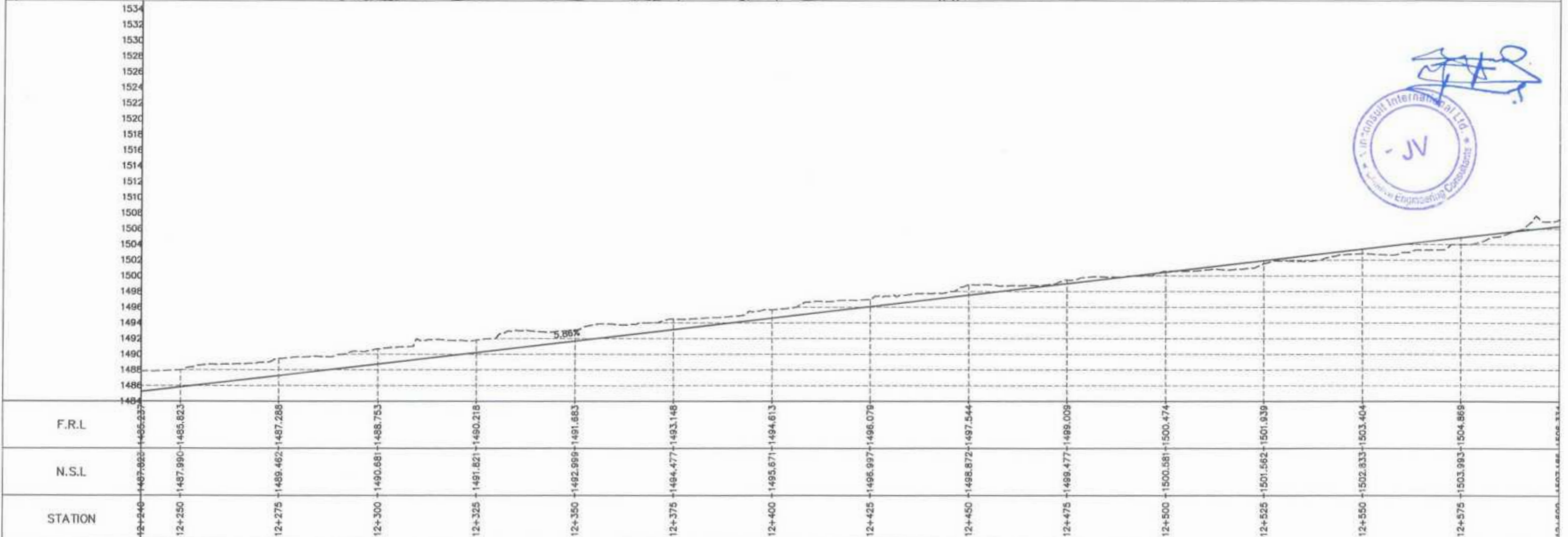
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



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. 38835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 11+880.00 - 12+240.00	
		a			DRAWN IMRAN			OSAIC TO ORSOON		DATE:
		b			CHECKED AQEEL YOUNIS			ACCESS ROAD		AUG, 2024.
		c			APPROVED S.DURRANI					CEC/HWKP-RRDP/N_CHT_2/PP/



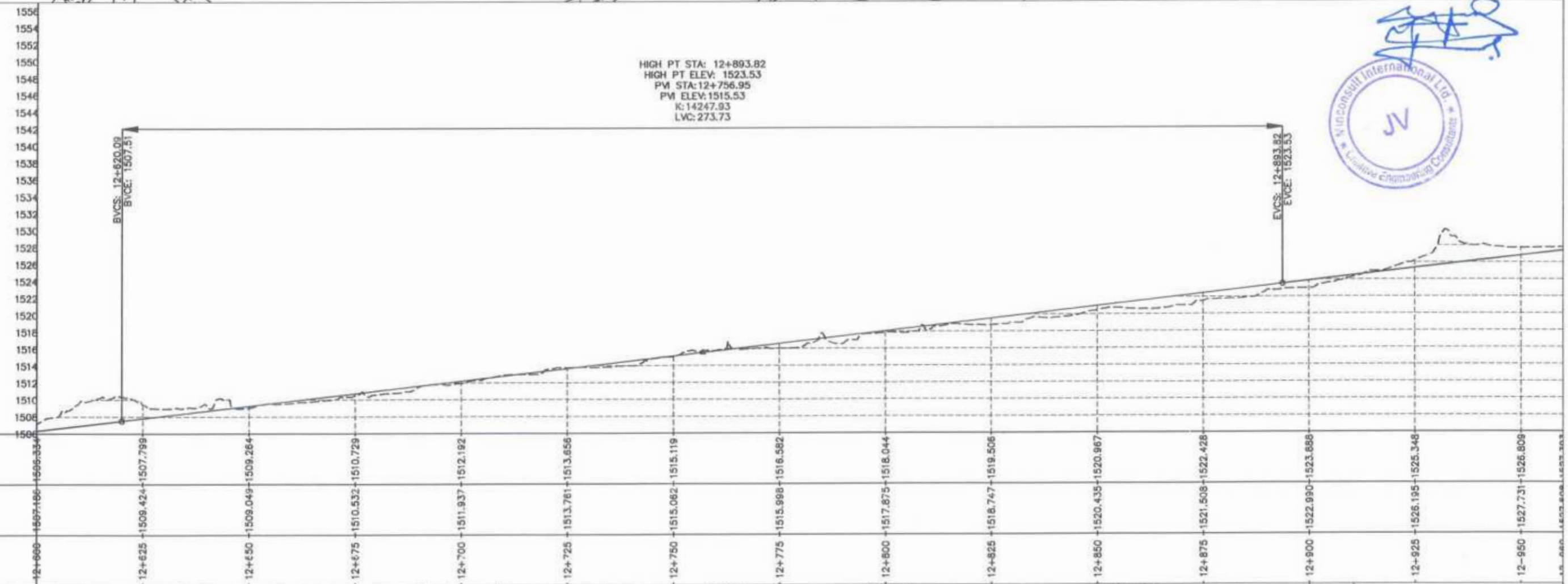
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 98835-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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	12+240.00 - 12+600.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										
								ACCESS ROAD	AUG, 2024	CEC/HWKP-RRDP/N_CHT_3/PPV 35				

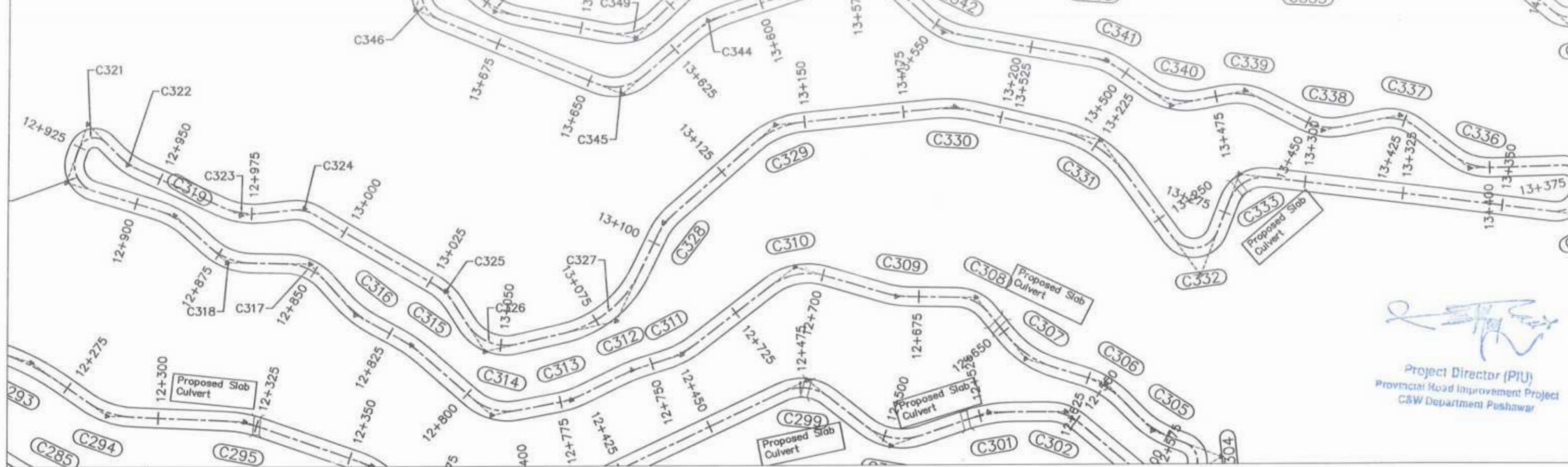


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

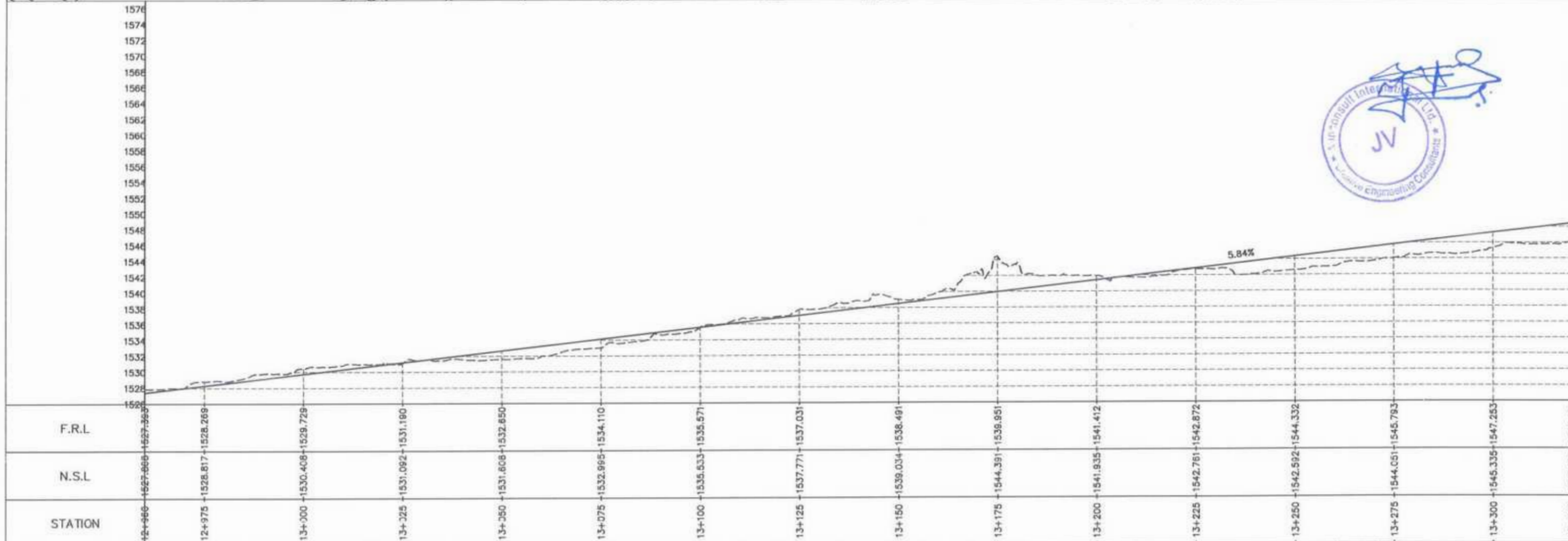





CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 18835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 12+600.00 - 12+960.00
		a			DRAWN IMRAN		OSAIC TO ORSOON	DATE:	
		b			CHECKED AQEEL YOUNIS		AUG, 2024		
		c			APPROVED S.DURRANI				
							ACCESS ROAD		CECHW/KP-RRDP/N_CHT_2/PP/ 36

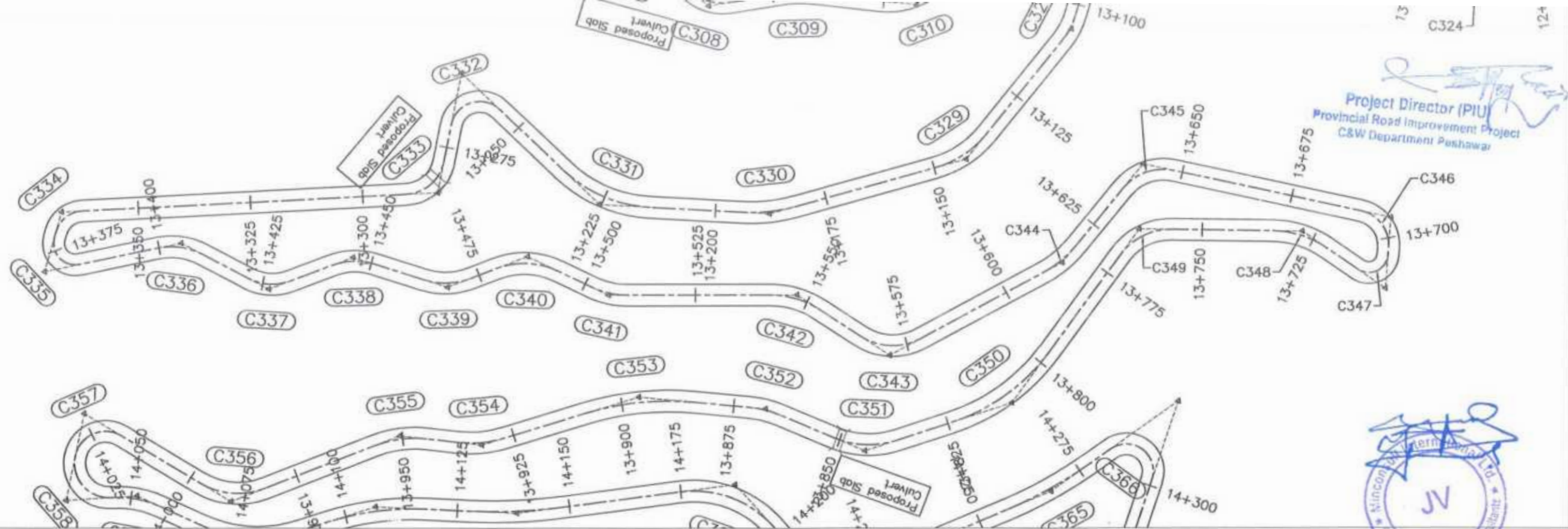




  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Pushawar



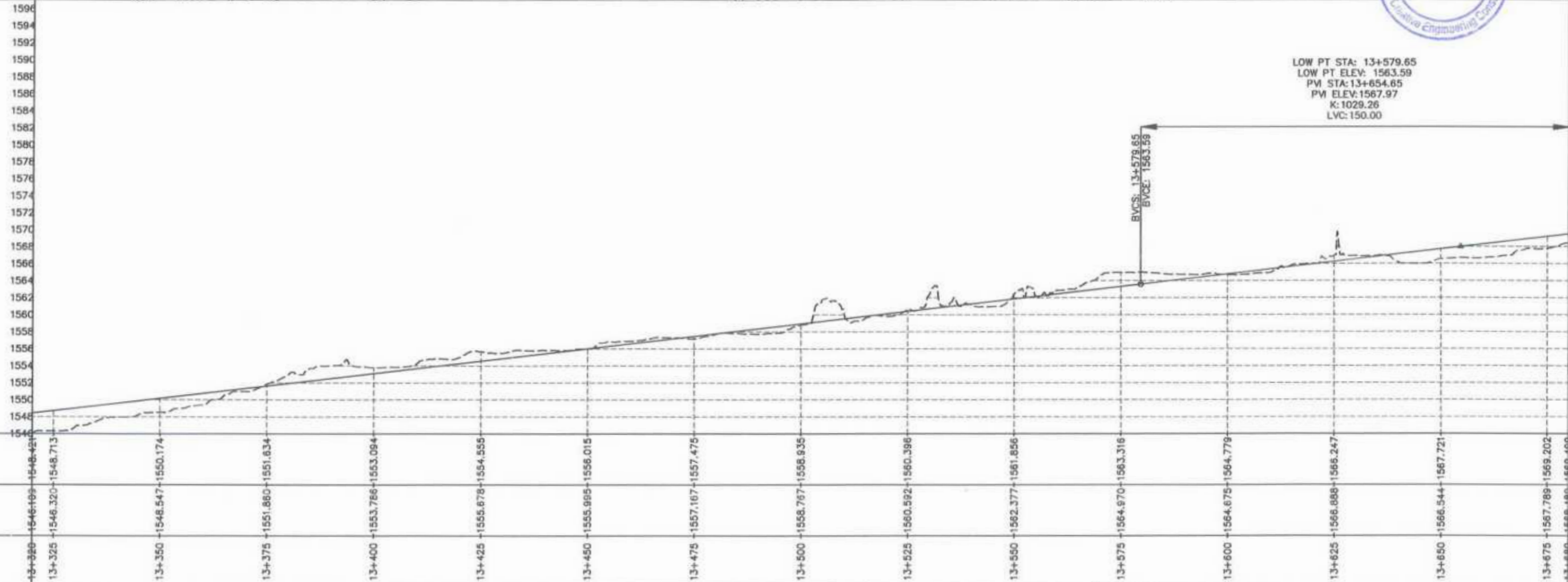
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
 GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 5835-P) J.V.   CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G. DESIGNED	TANZEEL	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 12+960.00 - 13+320.00
		a			DRAWN	IMRAN			
		b			CHECKED	AQEEL YOUNIS	ACCESS ROAD	CECHWKP-RRDP/N_CHT_2/PPY	
		c			APPROVED	S.DURRANI			37



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

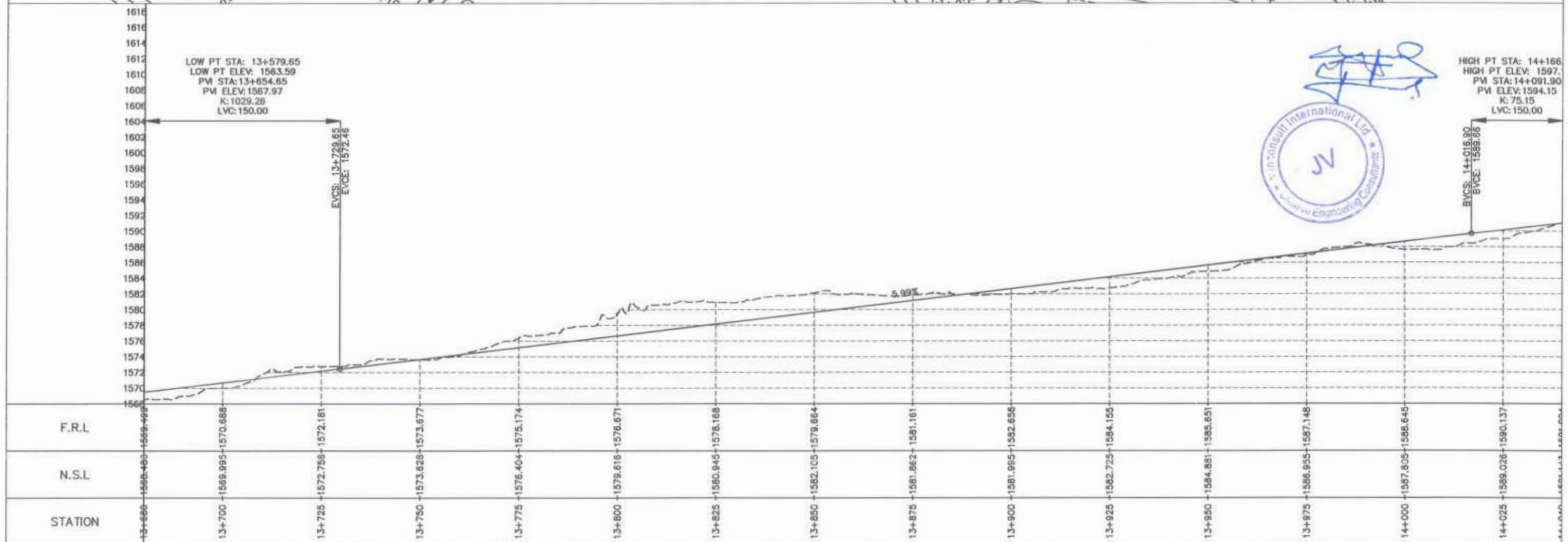
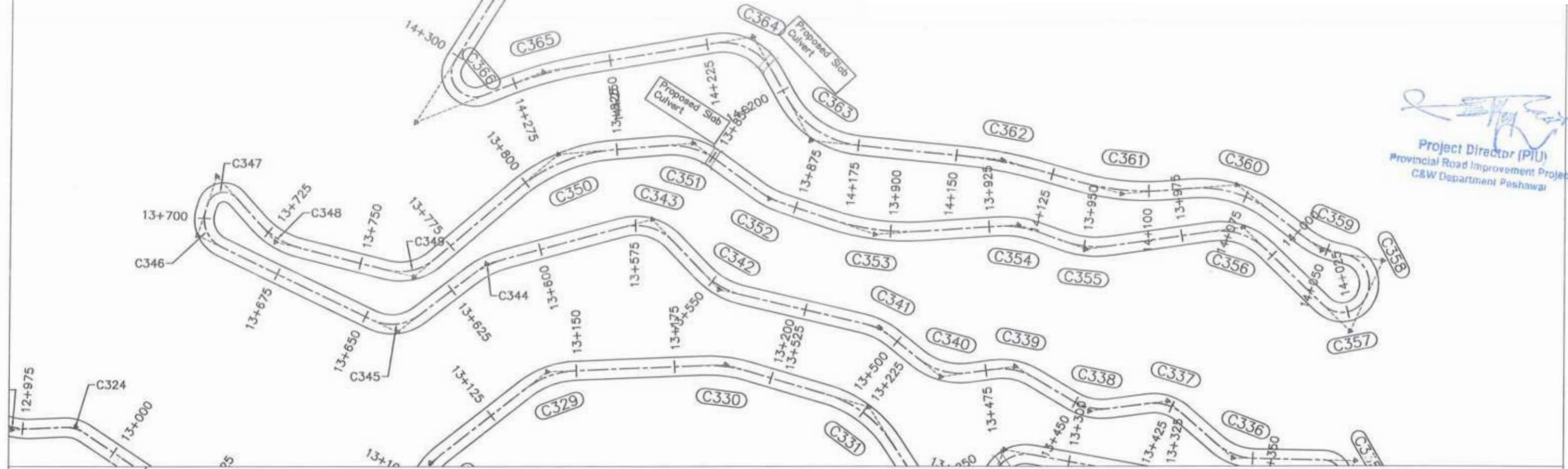


LOW PT STA: 13+579.65  
LOW PT ELEV: 1563.59  
PM STA: 13+654.65  
PM ELEV: 1567.97  
K: 1029.26  
LVC: 150.00



<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:  PLAN & PROFILE 13+320.00 - 13+680.00  AUG. 2024 CEC/HWKP-RRDP/N_CHT_2/PPY 38
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500	
		a			DRAWN	IMRAN			DATE:	
		b			CHECKED	AOEEL YOUNIS			AUG. 2024	
c			APPROVED	S.DURRANI						

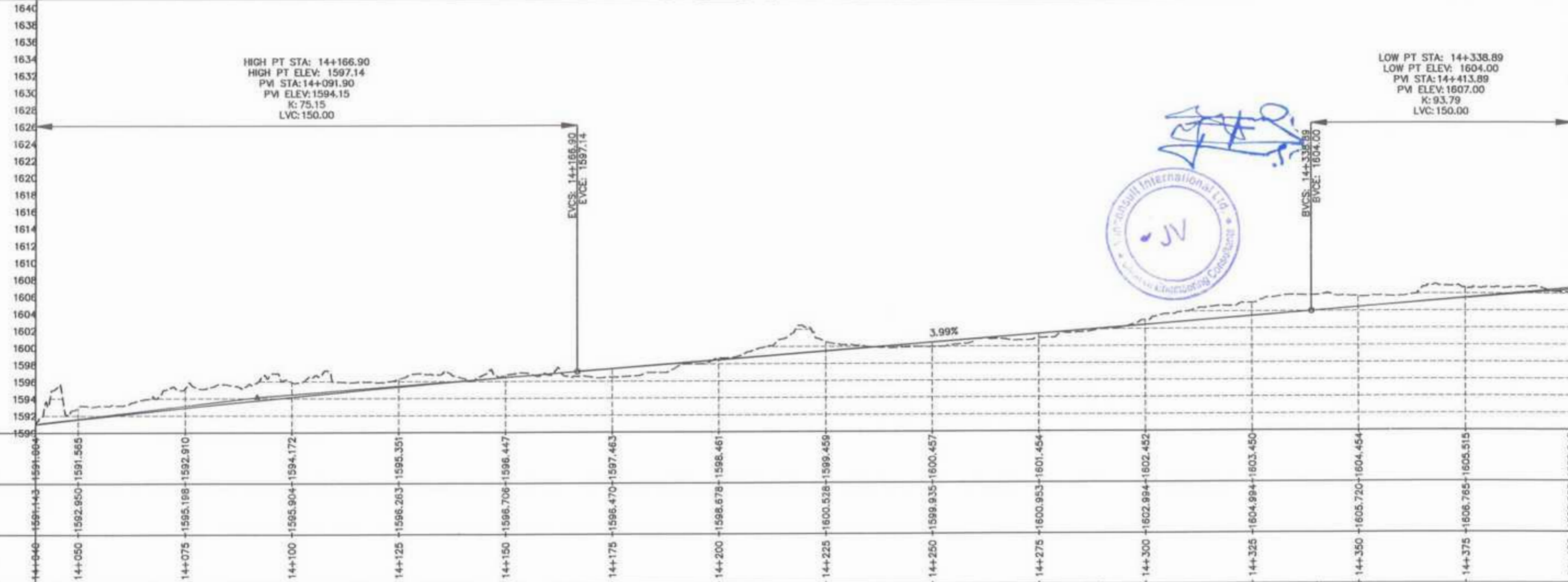
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



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 TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 13+680.00 - 14+040.00 CEC/HW/KP-RRDP/N_CHT_2/PP/ 39
		a			DRAWN IMRAN		OSAIK TO ORSOON	V=1:500	
		b			CHECKED AQEEL YOUNIS		ACCESS ROAD	DATE:	
		c			APPROVED S.DURRANI			AUG, 2024	

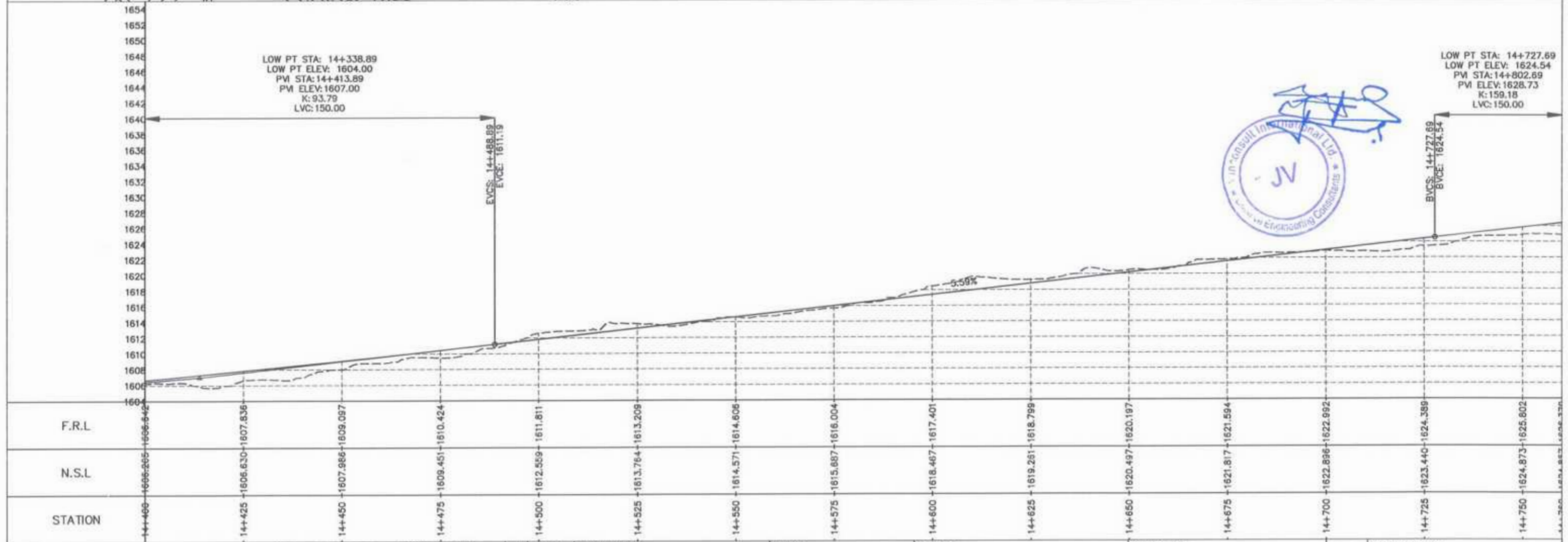
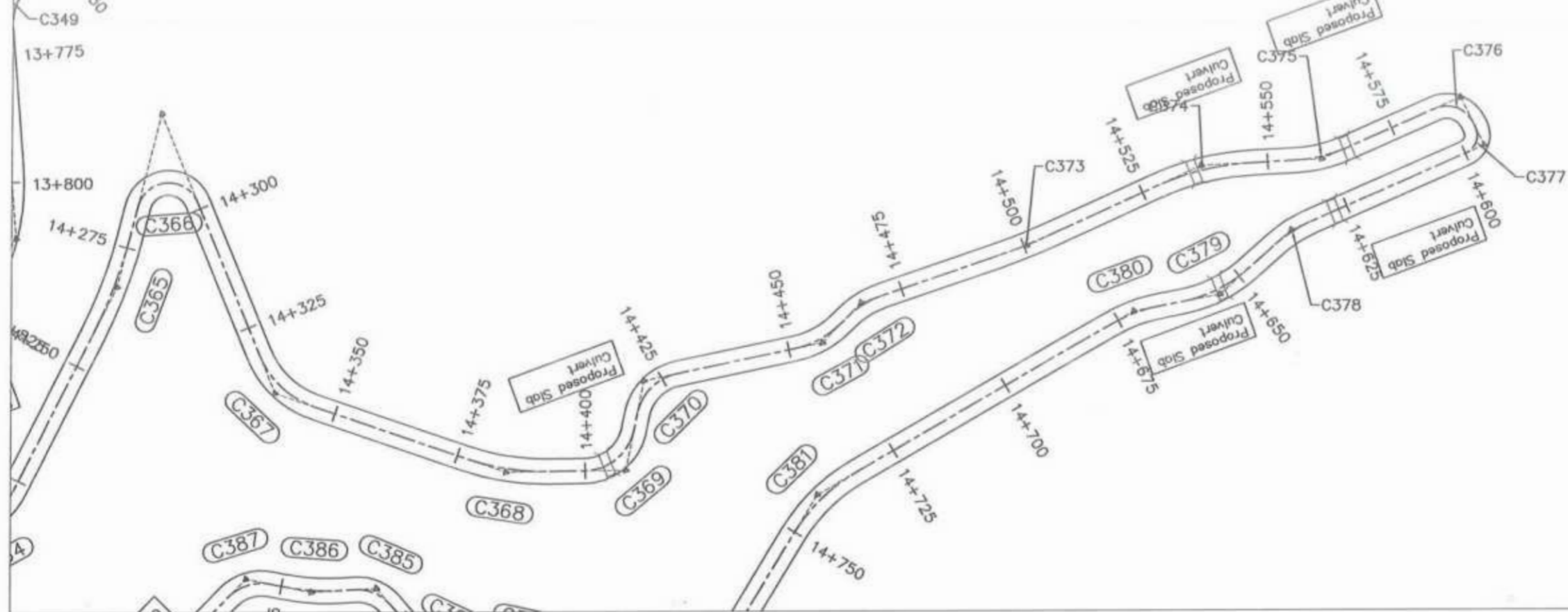


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

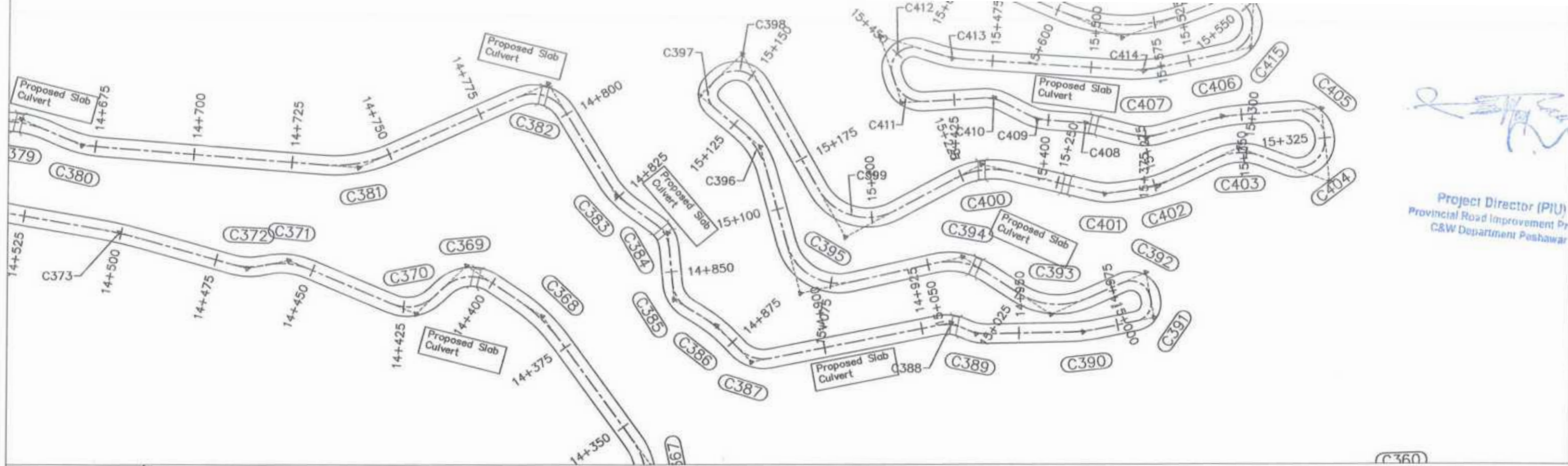


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P)          J.V.          CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG, 2024	TENDER DRAWINGS.	G. DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024	PLAN & PROFILE 14+040.00 - 14+400.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										

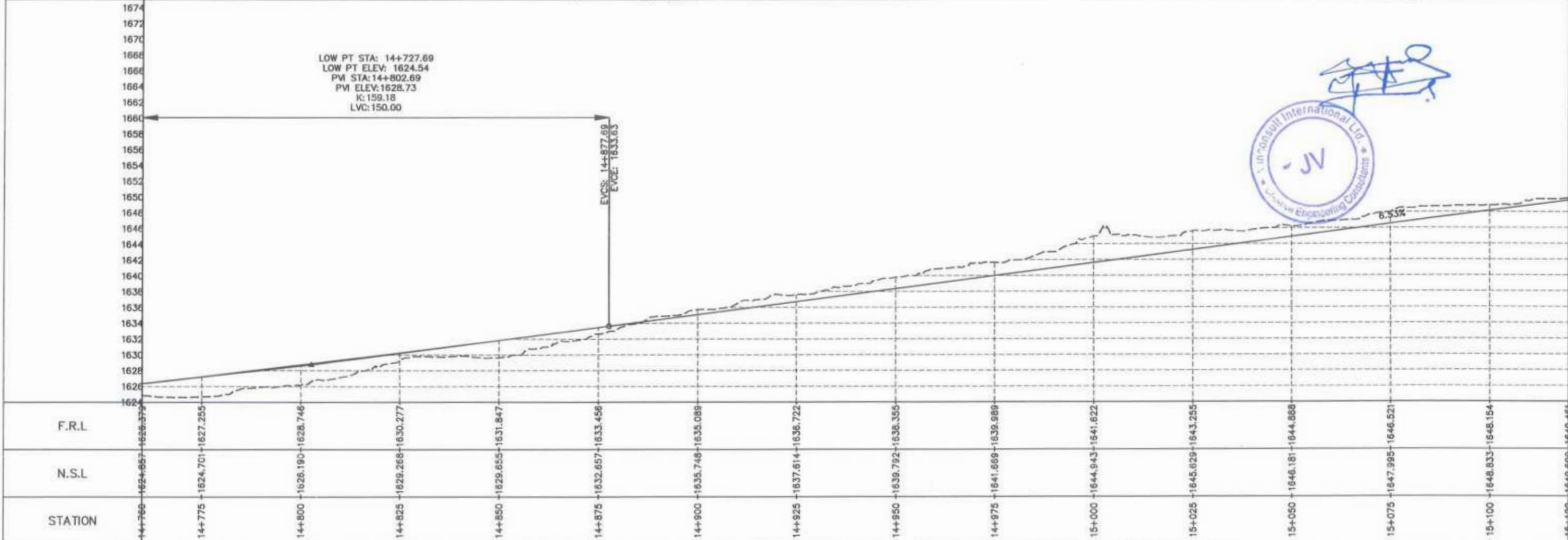
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



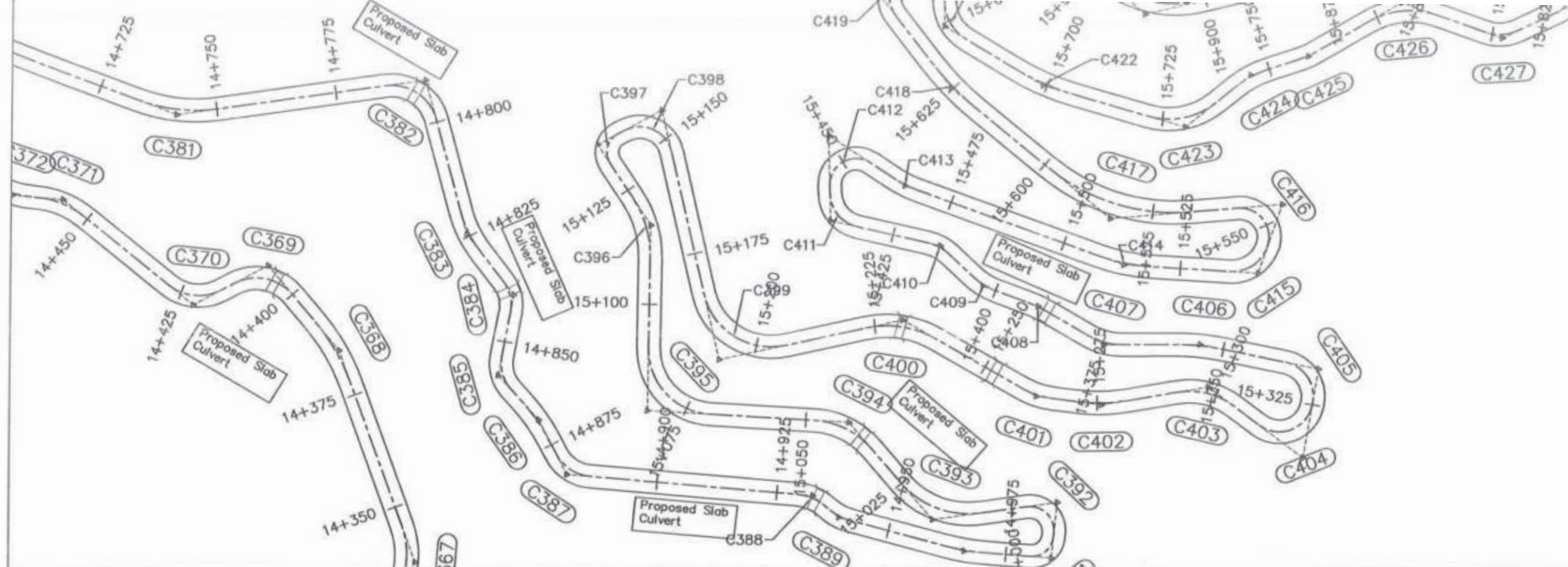
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	N_CHT_2  OSAIC TO ORSOON  ACCESS ROAD	H=1:1000 V=1:500	PLAN & PROFILE 14+400.00 - 14+760.00  CEC/HWKP-RRDP/N_CHT_2/PP/ 41
		a			DRAWN	IMRAN			
		b			CHECKED	AGEEL YOUNIS			
		c			APPROVED	S.DURRANI			
						KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE: AUG, 2024,	



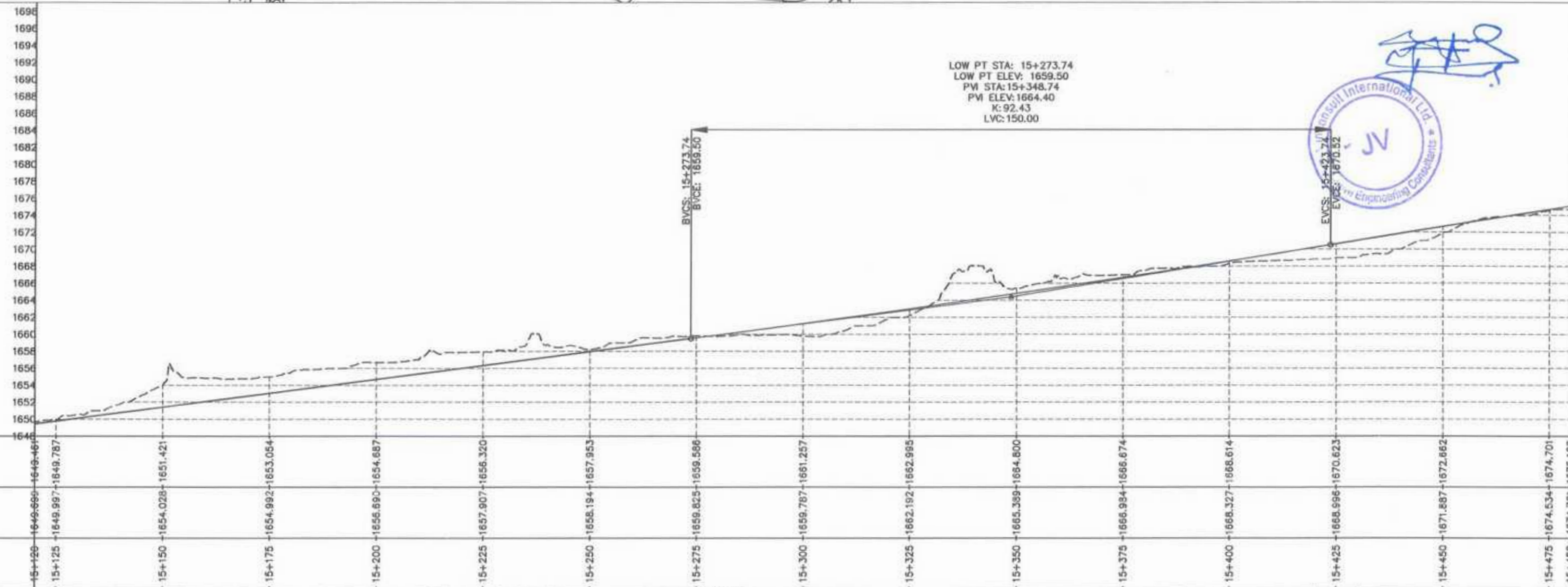
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar



<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 9835-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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024.	PLAN & PROFILE 14+760.00 - 15+120.00
		a			DRAWN IMRAN								
		b			CHECKED AQEEL YOUNIS								
c			APPROVED S.DURRANI										

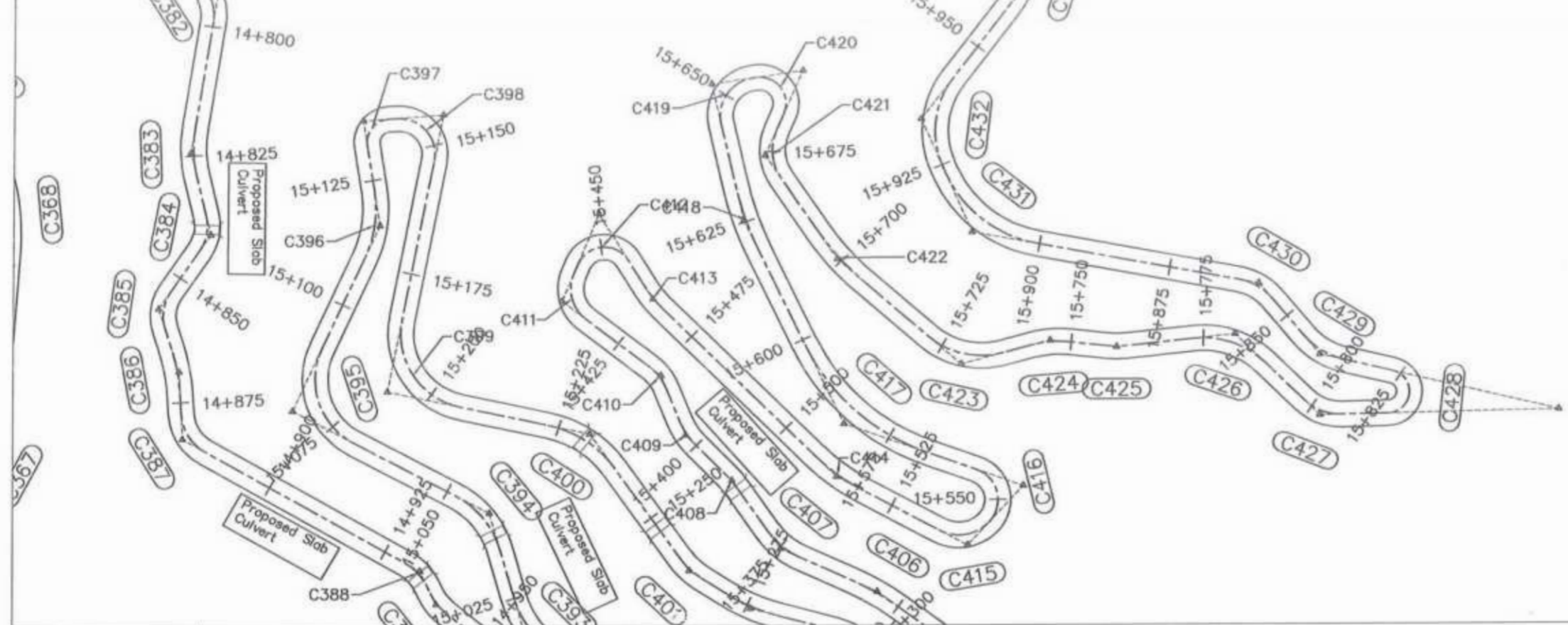


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

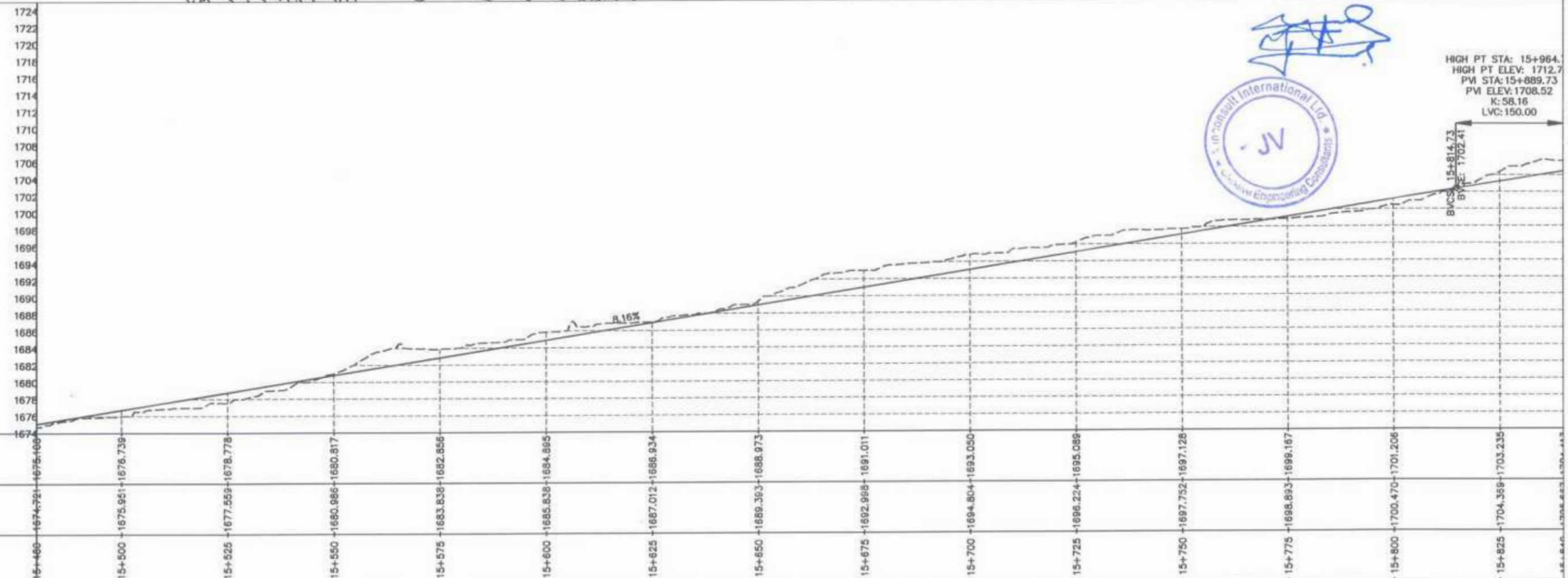


Signature  
 Minconsult International Ltd.  
 JV  
 Engineering Consultants




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 TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE:	PLAN & PROFILE 15+120.00 - 15+480.00
		a			DRAWN IMRAN				
		b			CHECKED AQEEL YOUNIS				
		c			APPROVED S.DURRANI				
							AUG, 2024.	CEC/HW/KP-RRDP/N_CHT_2/PP1	43



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

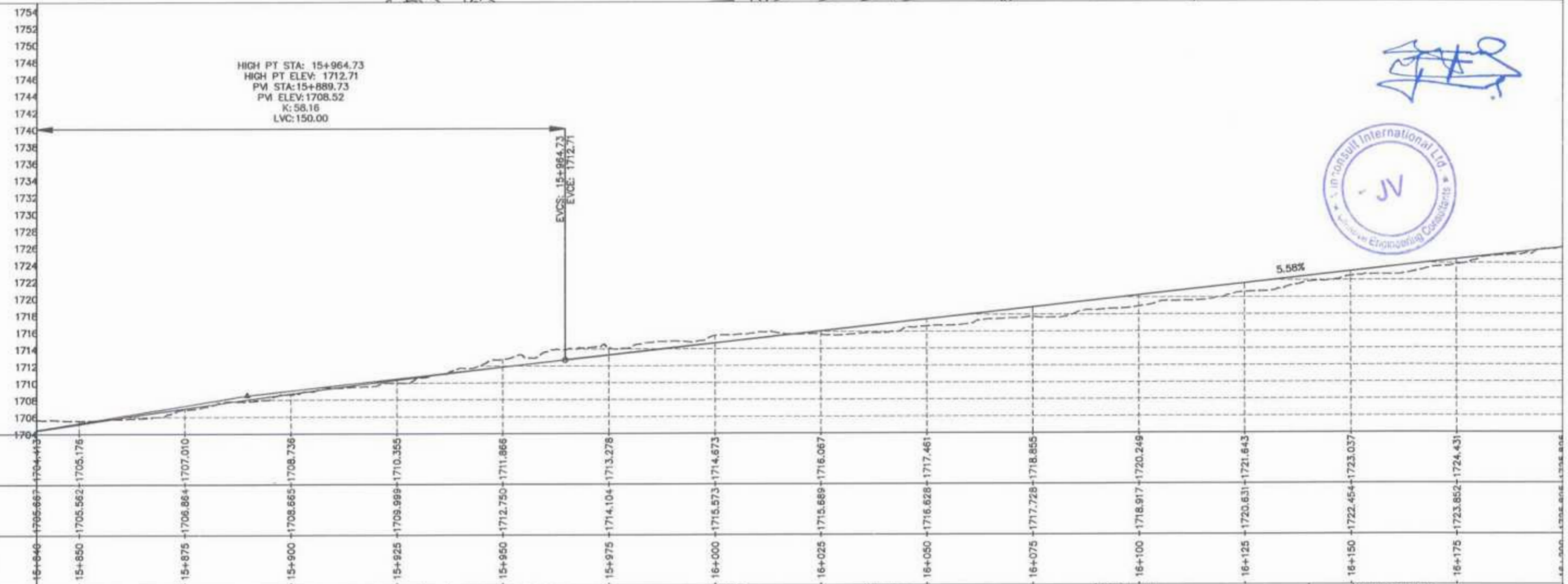
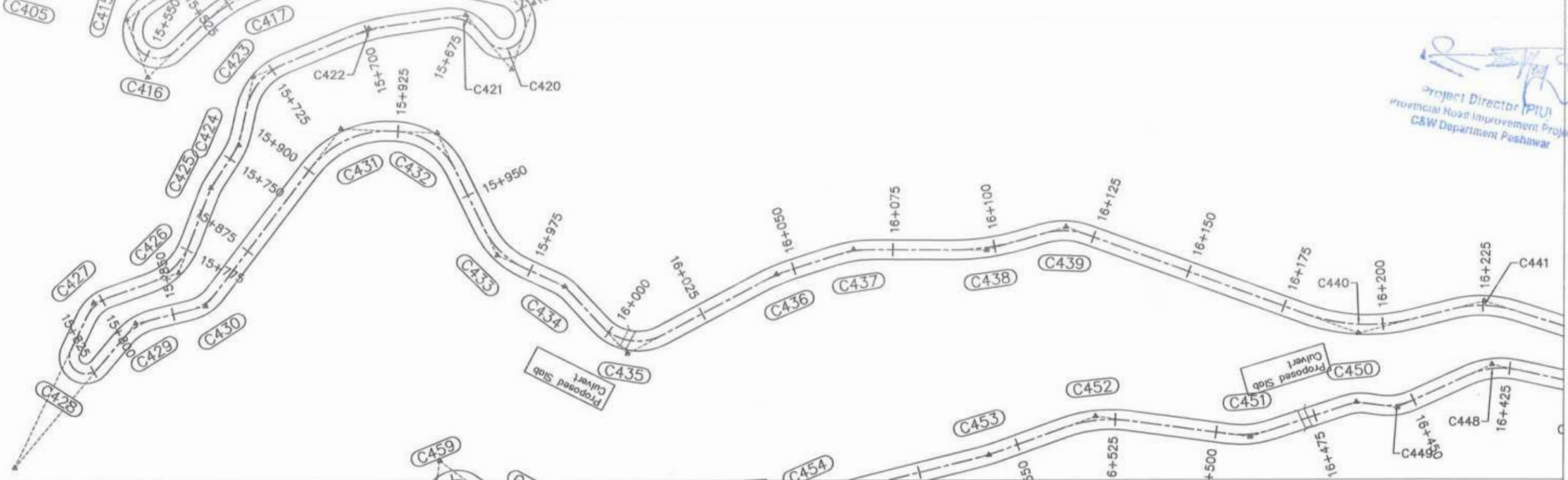


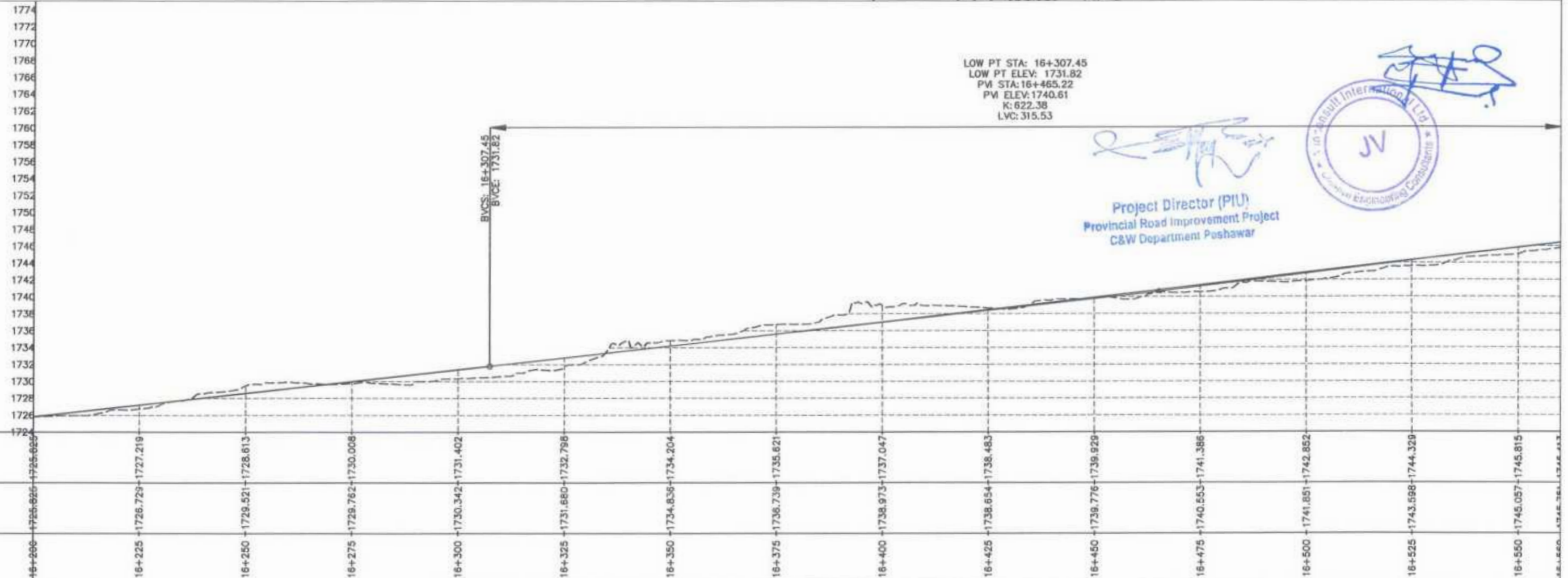

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
 <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 <b>MINCONSULT SDN BHD</b> (COMPANY NO. 56635-P) J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG, 2024	TENDER DRAWINGS.	G. DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 15+480.00 - 15+840.00
		a			DRAWN IMRAN			DATE:	
		b			CHECKED AQEEL YOUNIS			AUG, 2024	
		c			APPROVED S.DURRANI			CEC/HW/KP-RRDP/N_CHT_2/PP/ 44	



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



CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p><b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b>            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 ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 15+840.00 - 16+200.00
		a			DRAWN IMRAN		V=1:500		
		b			CHECKED AQEEL YOUNIS		DATE:		
		c			APPROVED S.DURRANI		AUG, 2024		
							ACCESS ROAD		CEC/HW/KP-RRDP/N_CHT_2/PPY 45

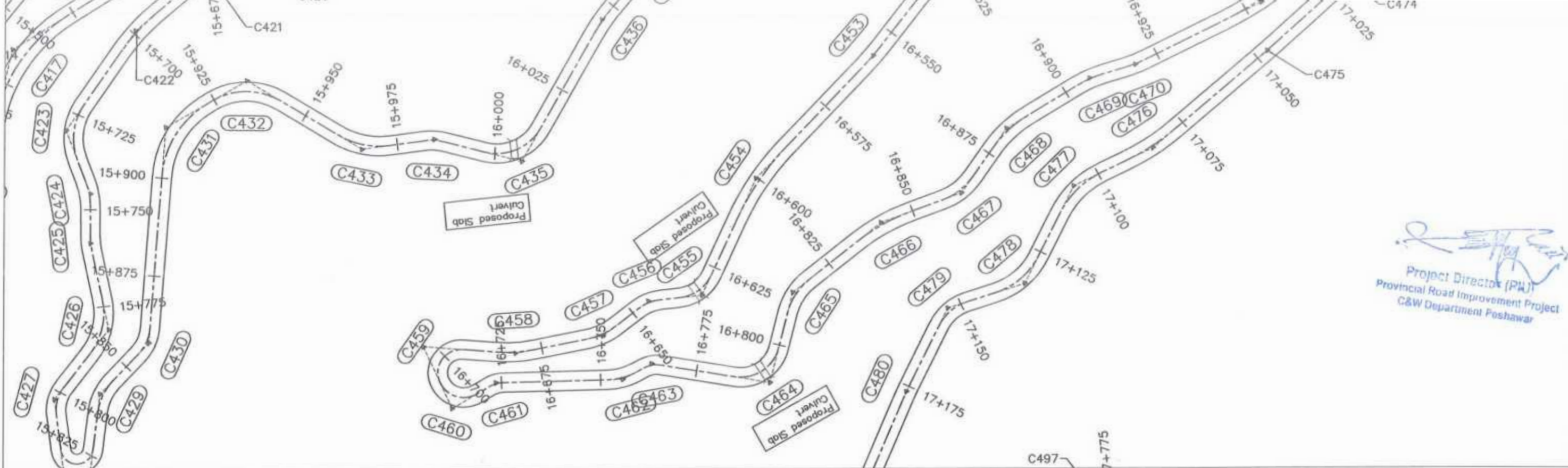


LOW PT STA: 16+307.45  
 LOW PT ELEV: 1731.82  
 PM STA: 16+465.22  
 PM ELEV: 1740.61  
 K: 622.38  
 LVC: 315.53

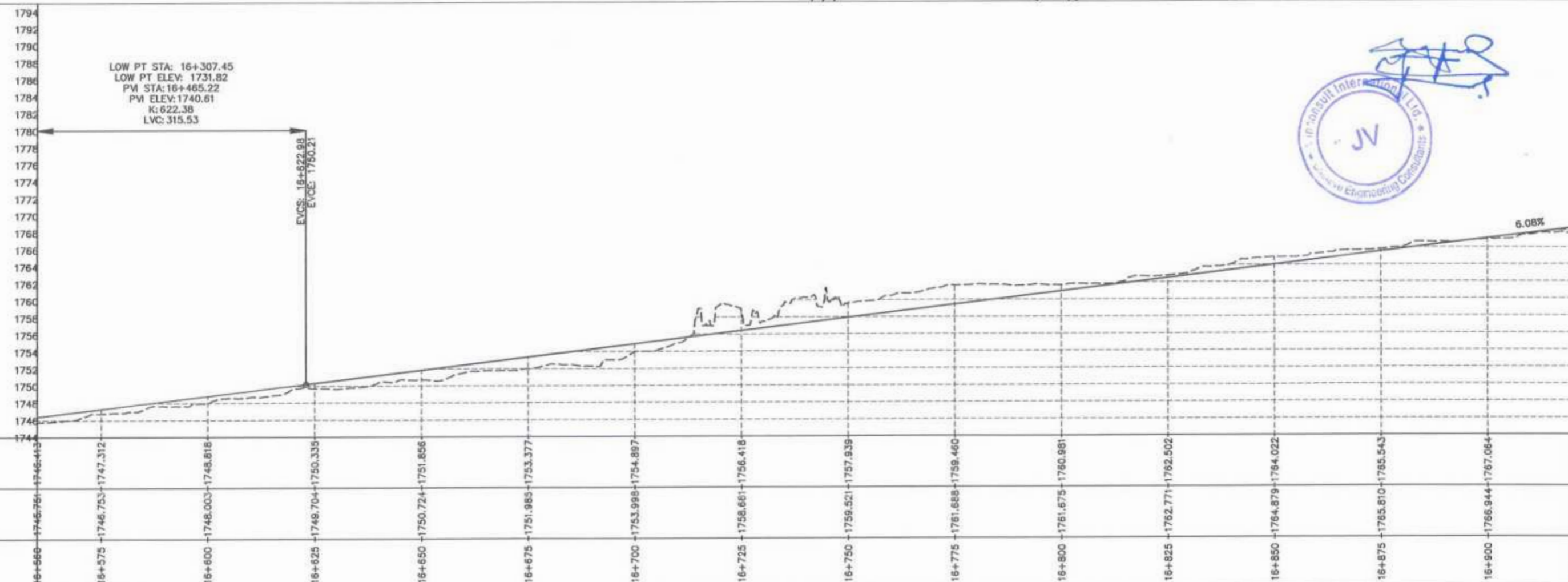
Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Pushawar



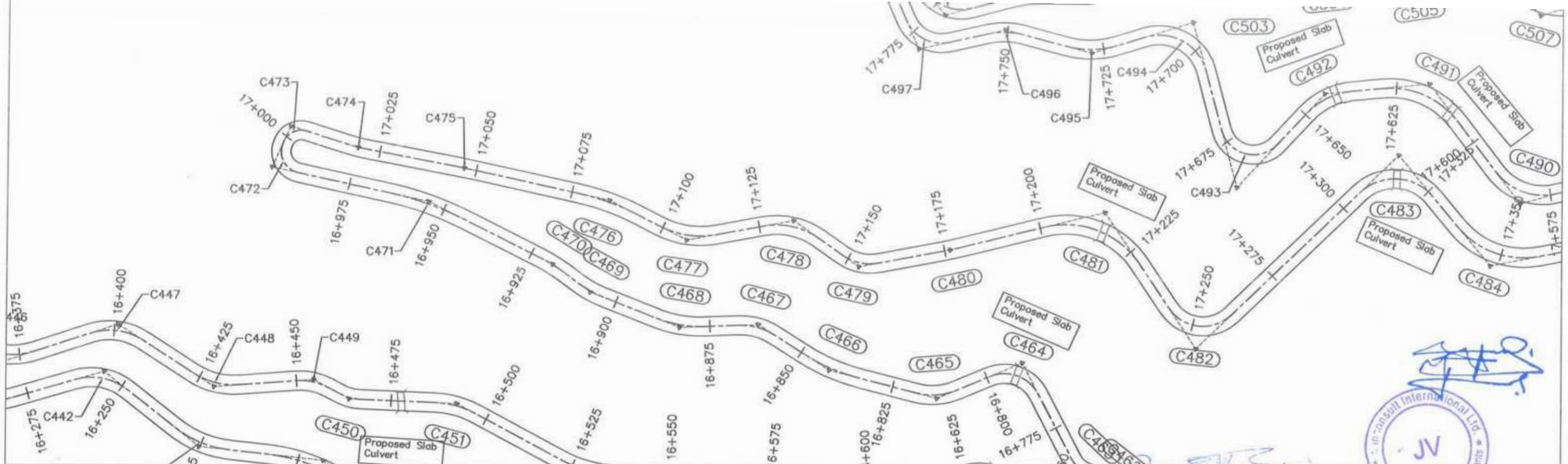
CLIENT: <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	DESIGN CONSULTANT: <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V. <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT: PLAN & PROFILE 16+200.00 - 16+560.00 AUG, 2024 CEC/HW/KP-RRDP/N_CHT_2/PP1 46	
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2		H=1:1000
		a			DRAWN	IMRAN		OSAIC TO ORSOON		V=1:500
		b			CHECKED	AQEEL YOUNIS		ACCESS ROAD		DATE:
		c			APPROVED	S.DURRANI				AUG, 2024



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

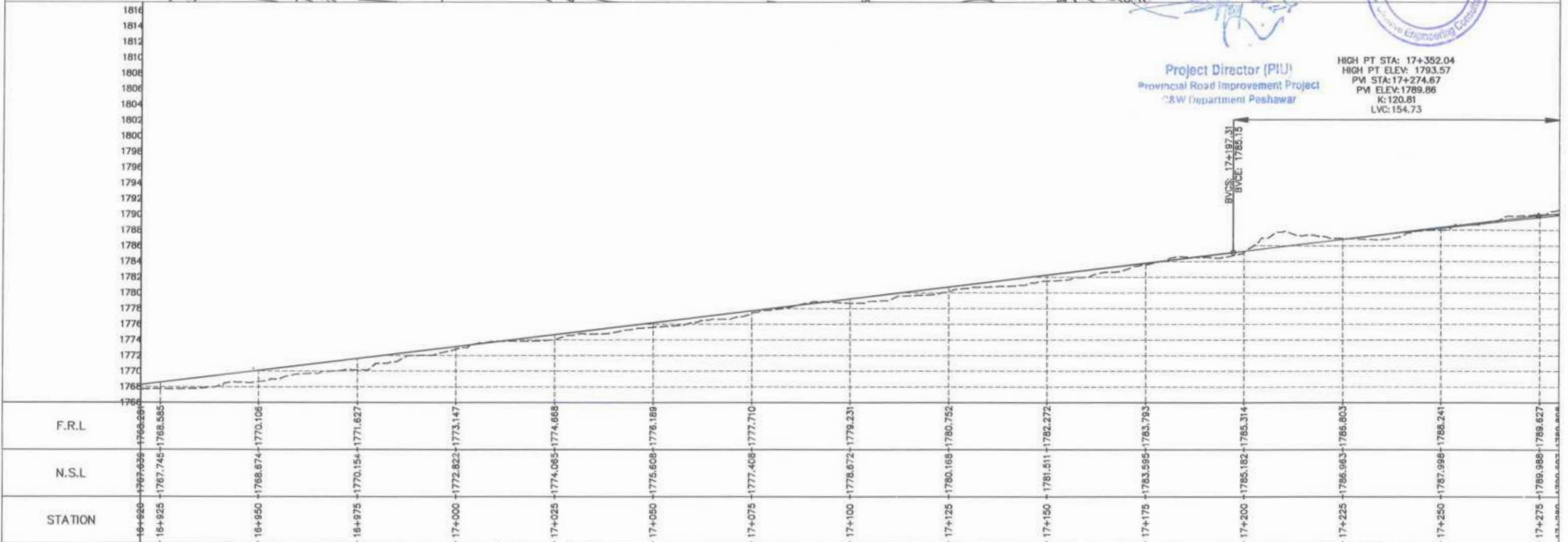


<p>GOVERNMENT OF KHYBER PAKHTUNKHWA          COMMUNICATION &amp; WORKS DEPARTMENT          PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD          (COMPANY NO. 58835-P)          J.V.           CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:				
		0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024	PLAN & PROFILE 16+560.00 - 16+920.00 CEC/HW/KP-RRDP/N_CHT_2/PIU 47
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										

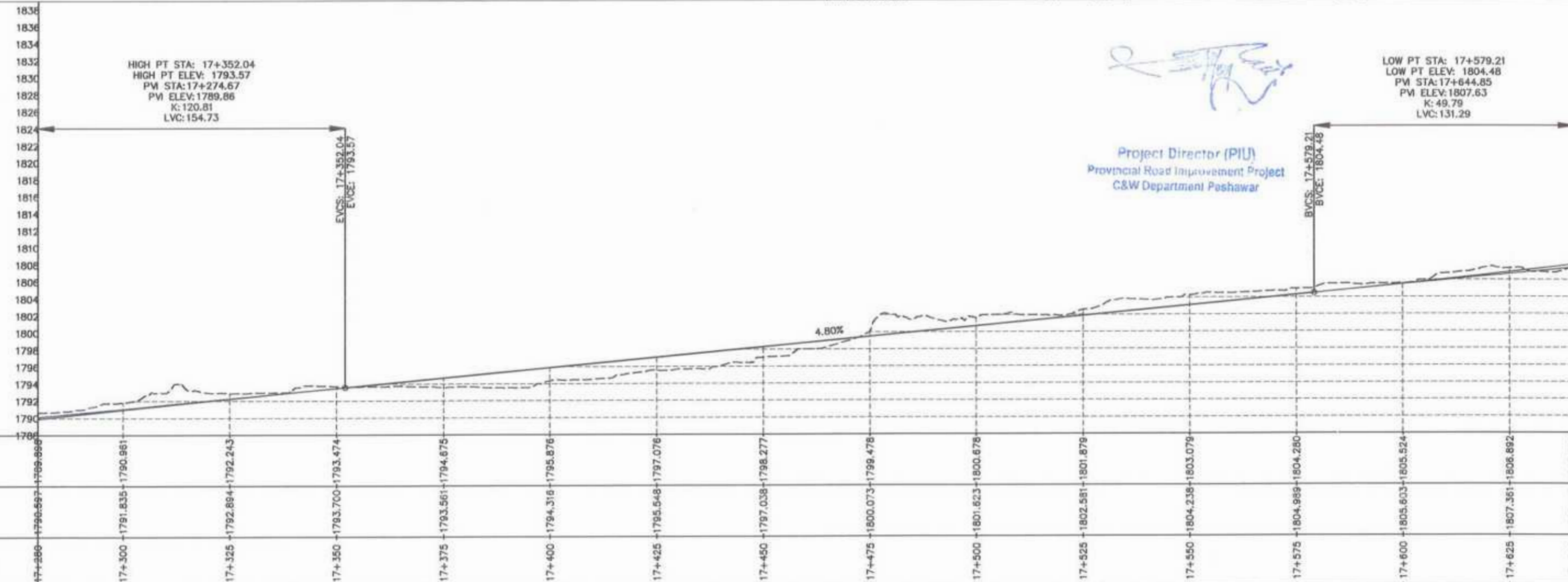
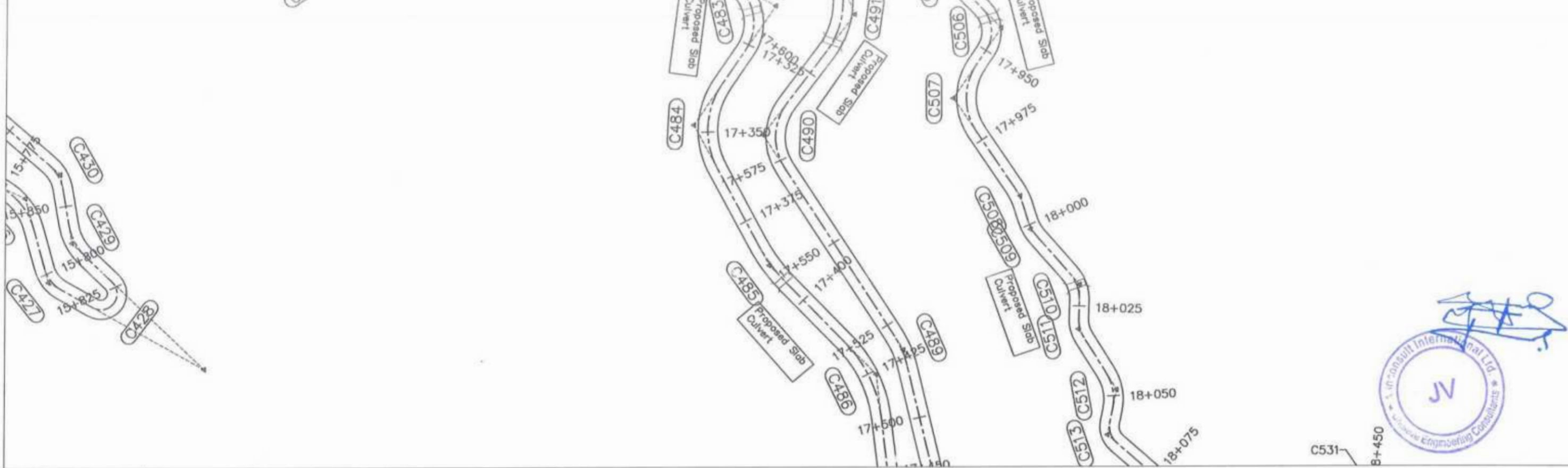


Project Director (PIU)  
 Provincial Road Improvement Project  
 R&W Department Peshawar

HIGH PT STA: 17+352.04  
 HIGH PT ELEV: 1793.57  
 PM STA: 17+274.67  
 PM ELEV: 1789.86  
 K: 120.81  
 LVC: 154.73

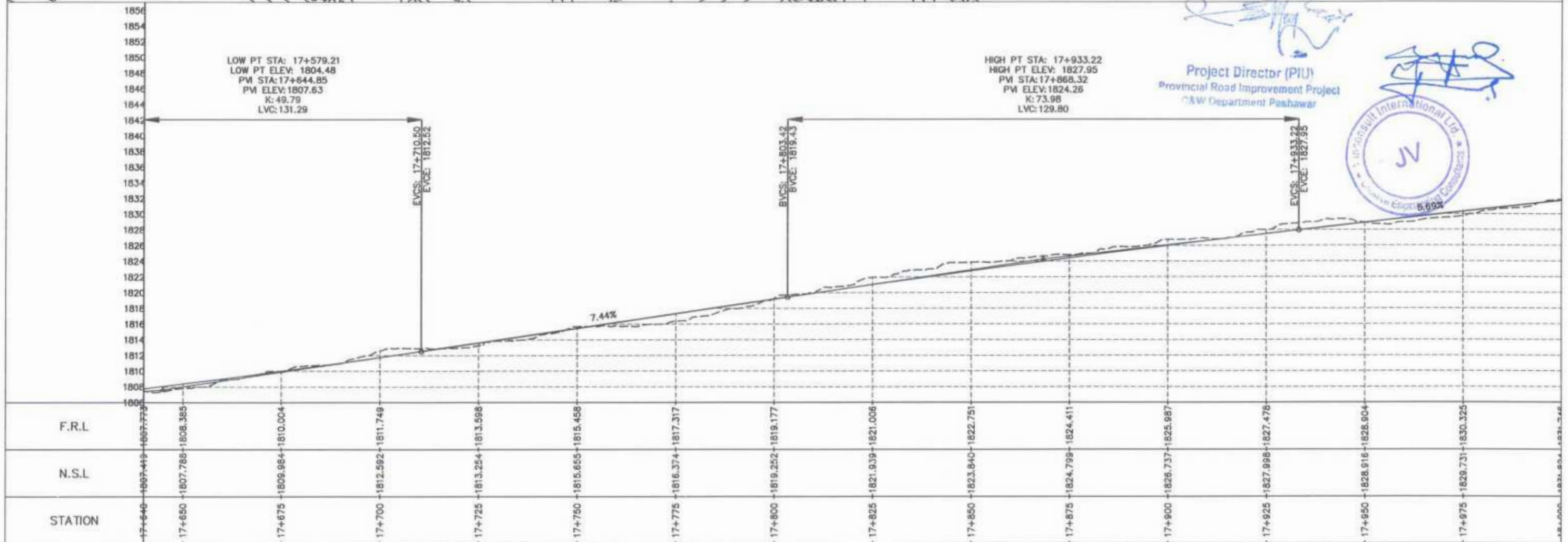
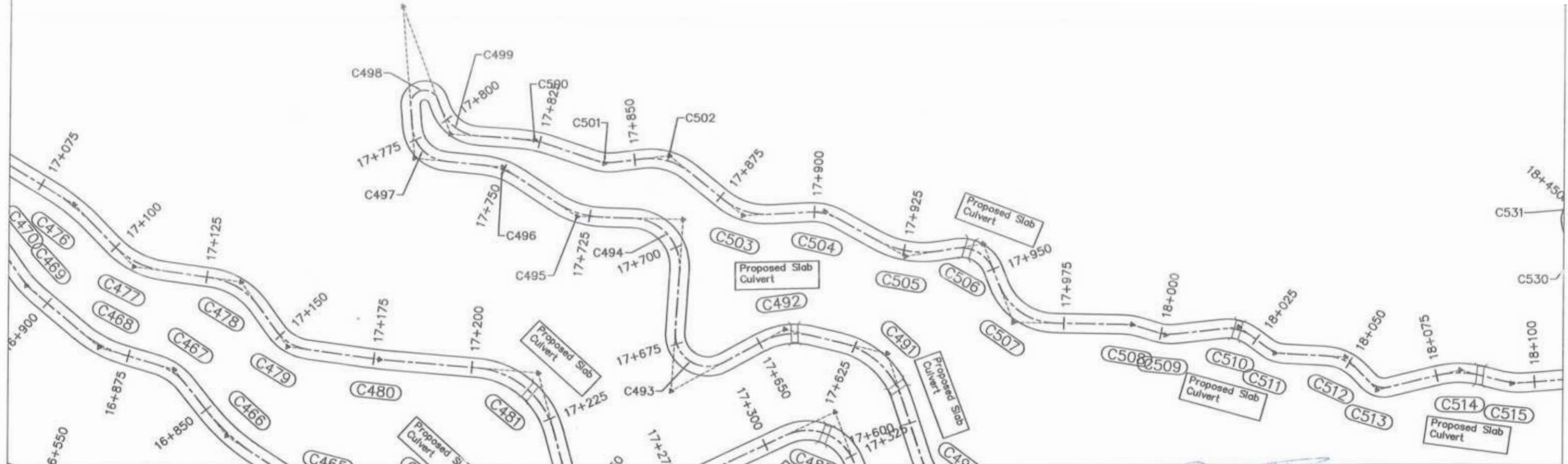


CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500	PLAN & PROFILE 16+920.00 - 17+280.00
		a			DRAWN IMRAN			DATE:	
		b			CHECKED AQEEL YOUNIS			AUG, 2024	
		c			APPROVED S.DURRANI			CEC/HW/KP-RRDP/N_CHT_2/PP/ 48	



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

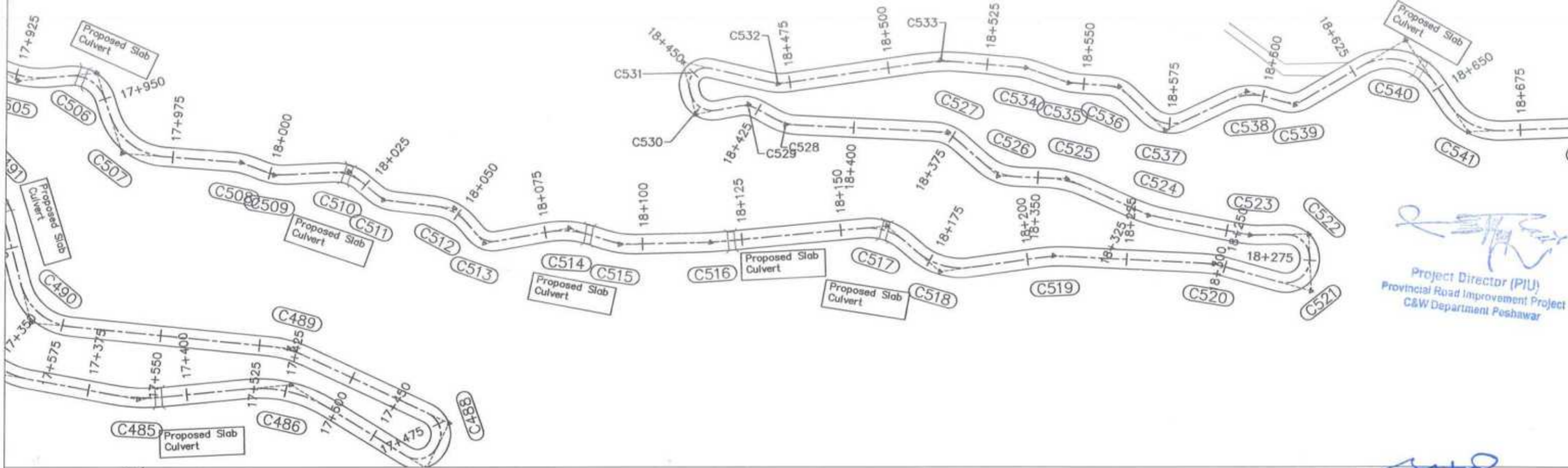
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG. 2024	TENDER DRAWINGS	G. DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG. 2024	PLAN & PROFILE 17+280.00 - 17+640.00 CEC/HWKP-RRDP/N_CHT_2/PP/ 49
		a			DRAWN IMRAN				
		b			CHECKED AQEEL YOUNIS				
		c			APPROVED S.DURRANI				



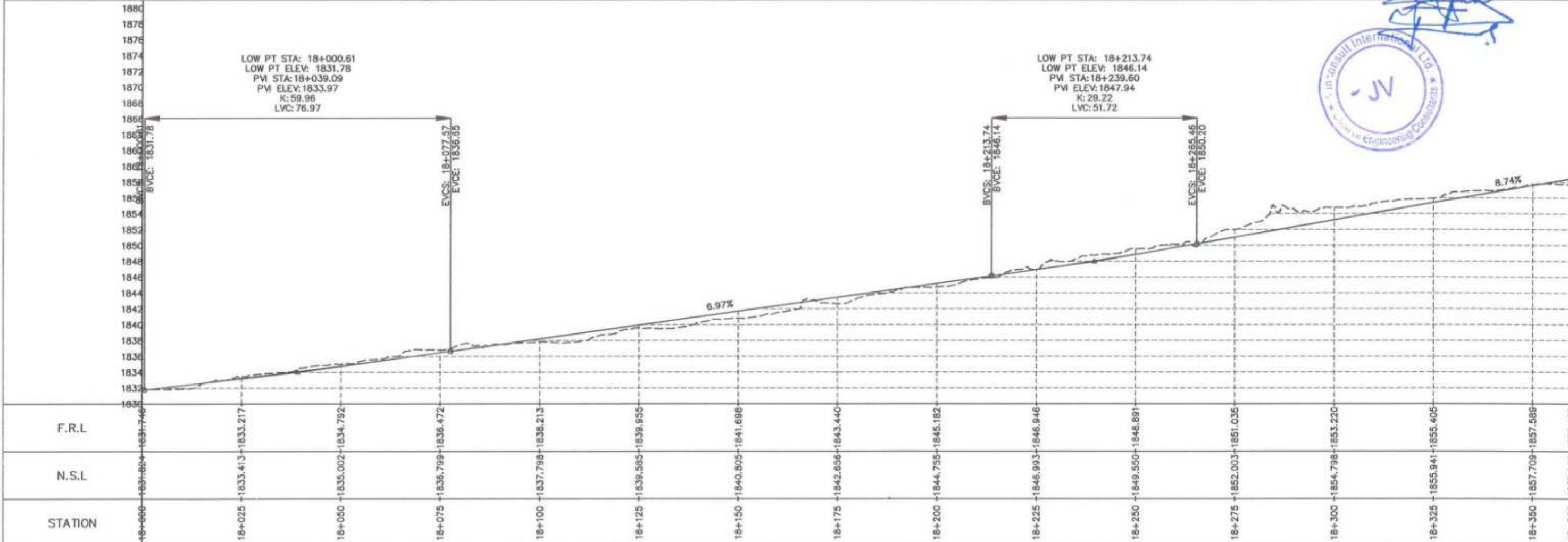
  
**Project Director (PIU)**  
 Provincial Road Improvement Project  
 R&W Department Peshawar

  
 J.V. CONSULTANTS INTERNATIONAL LTD.  
 5, 10<sup>th</sup> Floor, G-Block, F-7/1, Islamabad

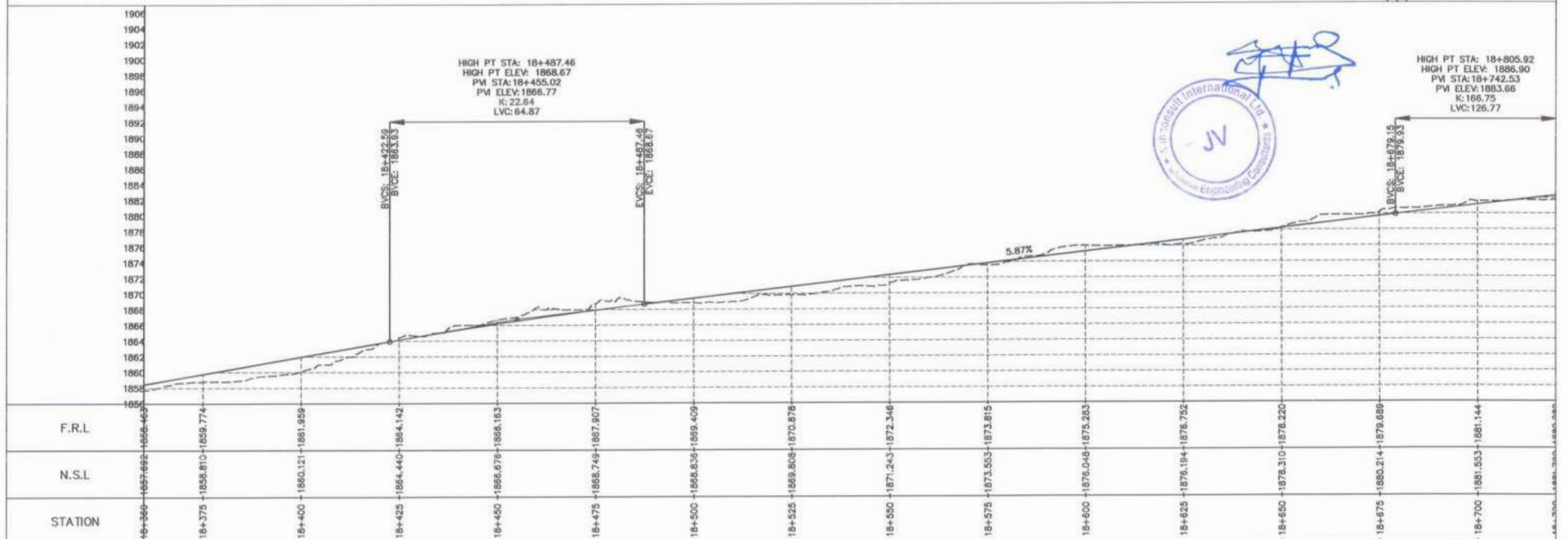
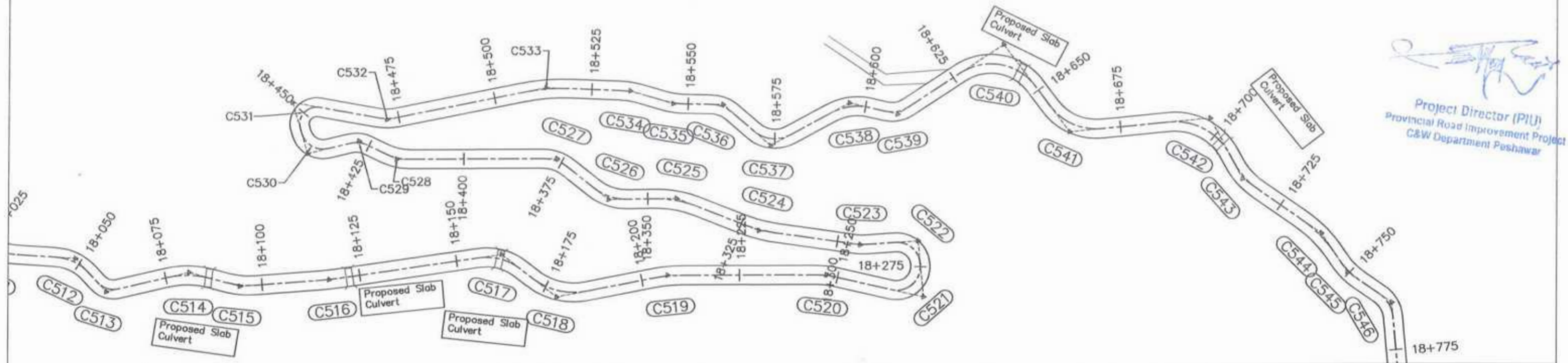
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
 <b>GOVERNMENT OF KHYBER PAKHTUNKHWA</b> COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 <b>MINCONSULT SDN BHD</b> (COMPANY NO. 58835-P) J.V.  <b>CREATIVE ENGINEERING CONSULTANTS (CEC)</b>	0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED: TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 17+640.00 - 18+000.00	
		a			DRAWN: IMRAN		CHECKED: AQEEL YOUNIS	OSAIC TO ORSOON		DATE:
		b			APPROVED: S DURRANI			ACCESS ROAD		AUG. 2024
		c								



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



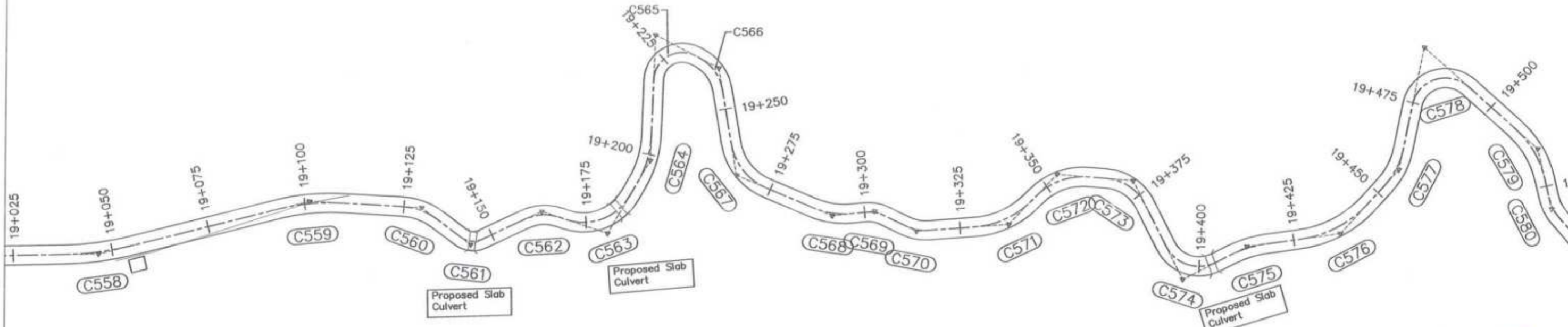
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:	
GOVERNMENT OF KHYBER PAKHTUNKHWA  COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P)  J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G. DESIGNED	TANZEEL	N_CHT_2	H=1:1000	PLAN & PROFILE 18+000.00 - 18+360.00	
		a			DRAWN	IMRAN		KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		OSAIC TO ORSOON
		b			CHECKED	AQEEL YOUNIS	ACCESS ROAD			DATE:
		c			APPROVED	S.DURRANI		AUG, 2024.		CEC/HW/KP-RRDP/N_CHT_2/PP1



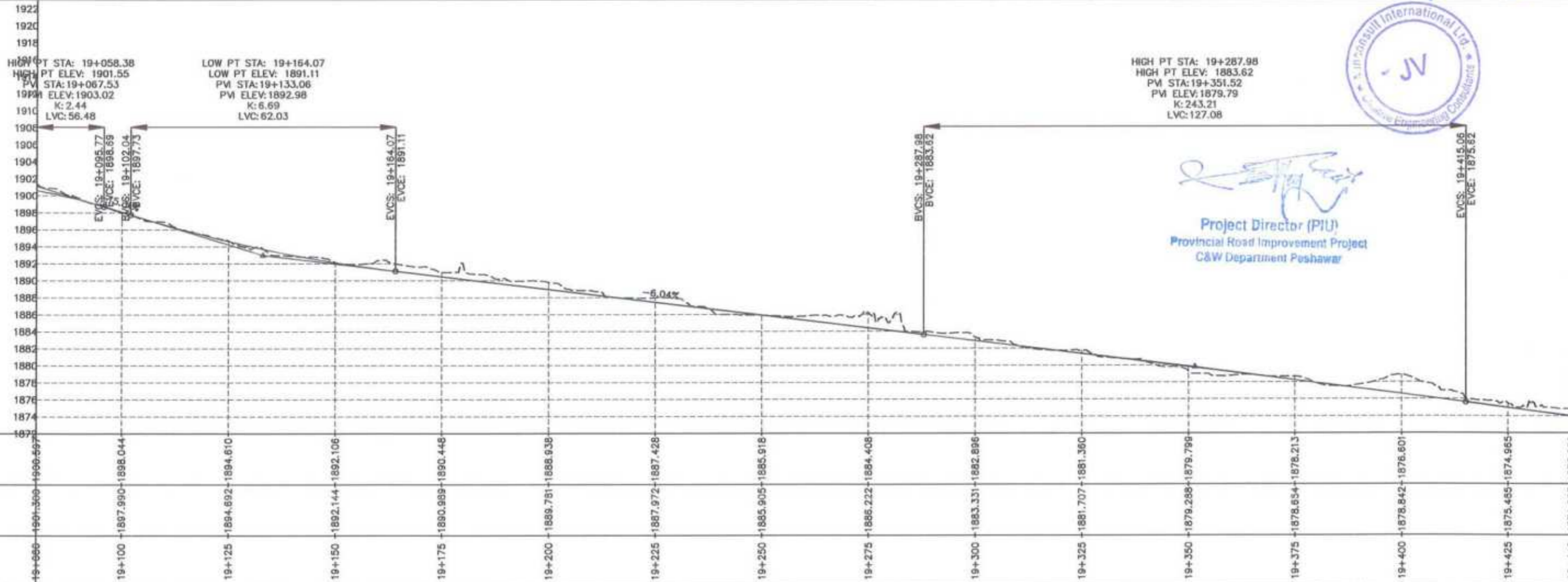
CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
<p>GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION &amp; WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)</p>	<p>MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)</p>	0	AUG, 2024	TENDER DRAWINGS.	G. DESIGNED TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 18+360.00 - 18+720.00 CEC/HWK/RRDP/N_CHT_2/PP/ 52
		a			DRAWN IMRAN		OSAIC TO ORSOON		
		b			CHECKED AQEEL YOUNIS		ACCESS ROAD		
		c			APPROVED S.DURRANI				







*[Handwritten signature]*

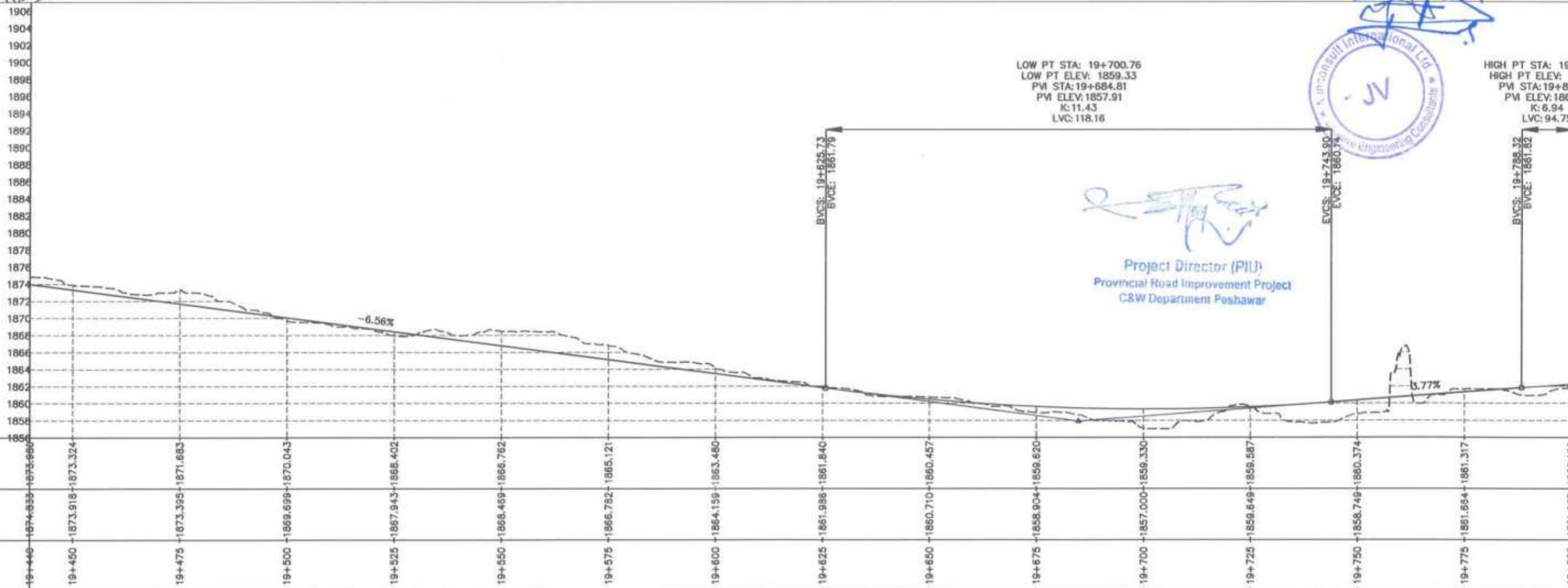
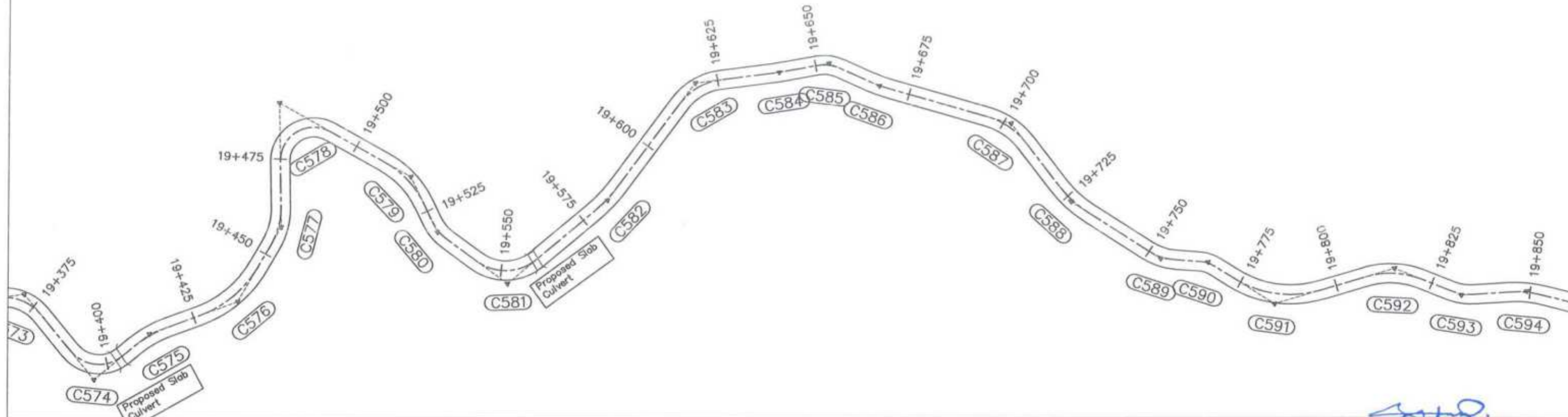


*[Handwritten signature]*  
**Project Director (PIU)**  
 Provincial Road Improvement Project  
 C&W Department Peshawar

F.R.L	1901.300	1897.990	1898.044	1894.610	1892.106	1890.448	1889.938	1887.428	1885.918	1884.408	1882.898	1881.388	1879.878	1878.368	1876.858	1875.348	1873.838
N.S.L	1901.300	1897.990	1898.044	1894.610	1892.106	1890.448	1889.938	1887.428	1885.918	1884.408	1882.898	1881.388	1879.878	1878.368	1876.858	1875.348	1873.838
STATION	19+025	19+100	19+125	19+150	19+175	19+200	19+225	19+250	19+275	19+300	19+325	19+350	19+375	19+400	19+425	19+450	19+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:	
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED					TANZEEL
		a			DRAWN					IMRAN
		b			CHECKED					AQEEL YOUNIS
					APPROVED	S.DURRANI				

PROJECT: KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)  
 ROAD NAME: N\_CHT\_2  
 OSAIC TO ORSOON  
 ACCESS ROAD  
 SCALE: H=1:1000, V=1:500  
 DATE: AUG, 2024  
 SHEET CONTENT: PLAN & PROFILE 19+080.00 - 19+440.00  
 CEC/HWKP-RRDP/N\_CHT\_2/PP/ 54



LOW PT STA: 19+700.76  
 LOW PT ELEV: 1859.33  
 PM STA: 19+684.81  
 PM ELEV: 1857.91  
 K: 11.43  
 LVC: 118.16

HIGH PT STA: 19+800.00  
 HIGH PT ELEV: 1861.82  
 PM STA: 19+800.00  
 PM ELEV: 1861.82  
 K: 6.94  
 LVC: 94.75

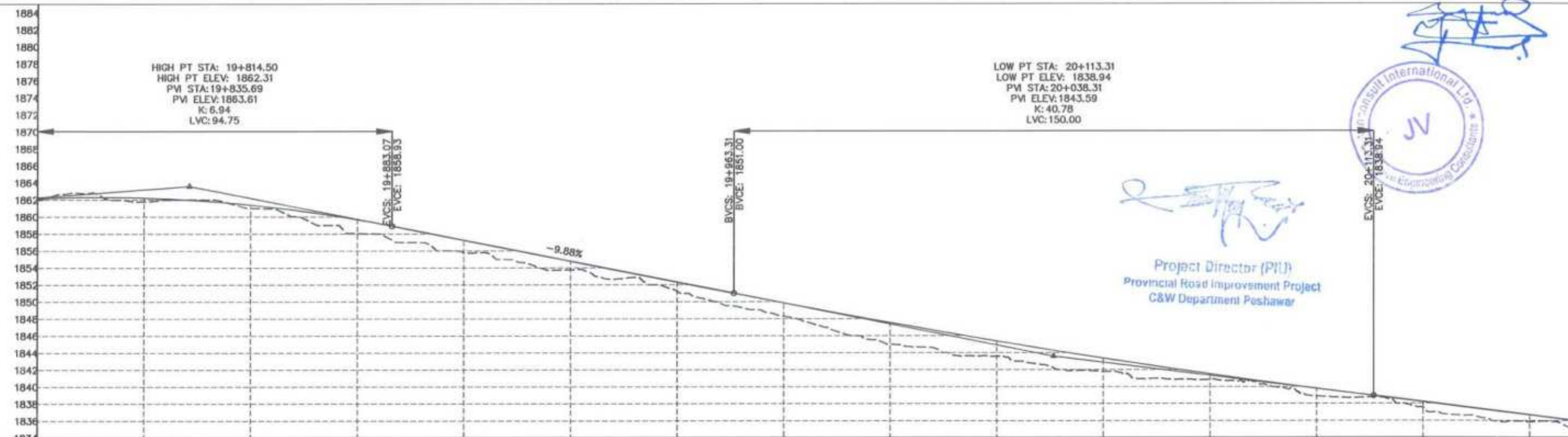
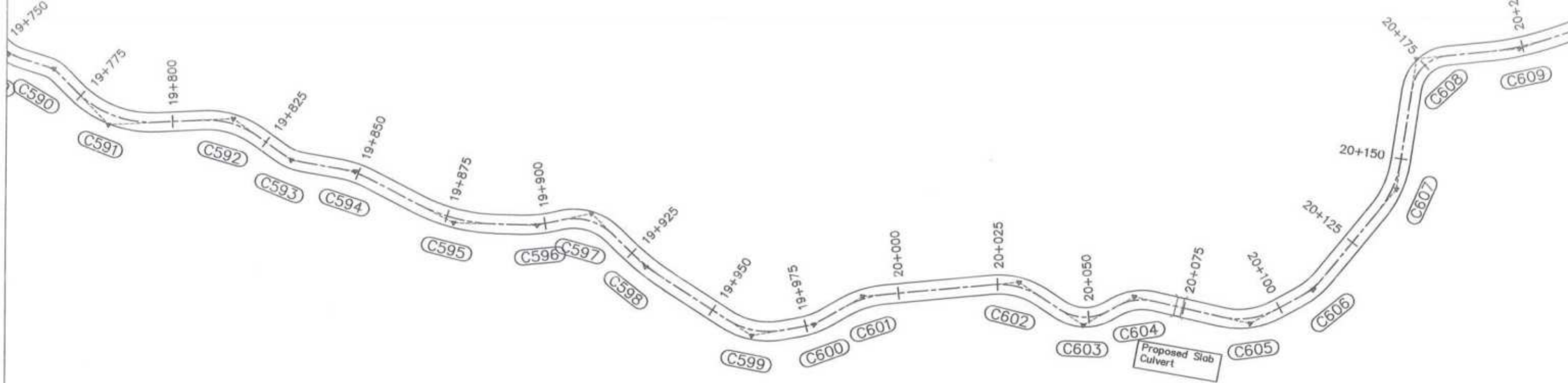
*[Signature]*  
 Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

F.R.L

N.S.L

STATION

<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:	ROAD NAME:	SCALE:	SHEET CONTENT:		
		0	AUG. 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2
		a			DRAWN	IMRAN						
		b			CHECKED	AQEEL YOUNIS						
c			APPROVED	S.DURRANI								
										AUG. 2024	CEC/HW/KP-RRDP/N_CHT_2/PP/ 55	

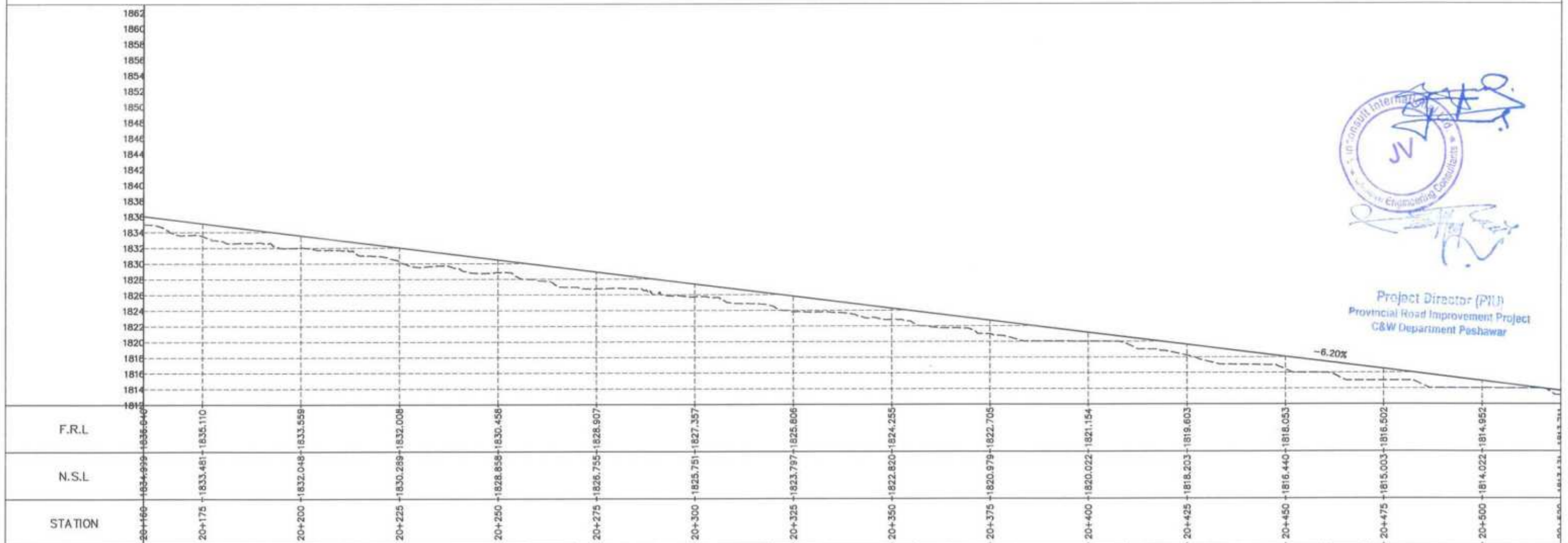
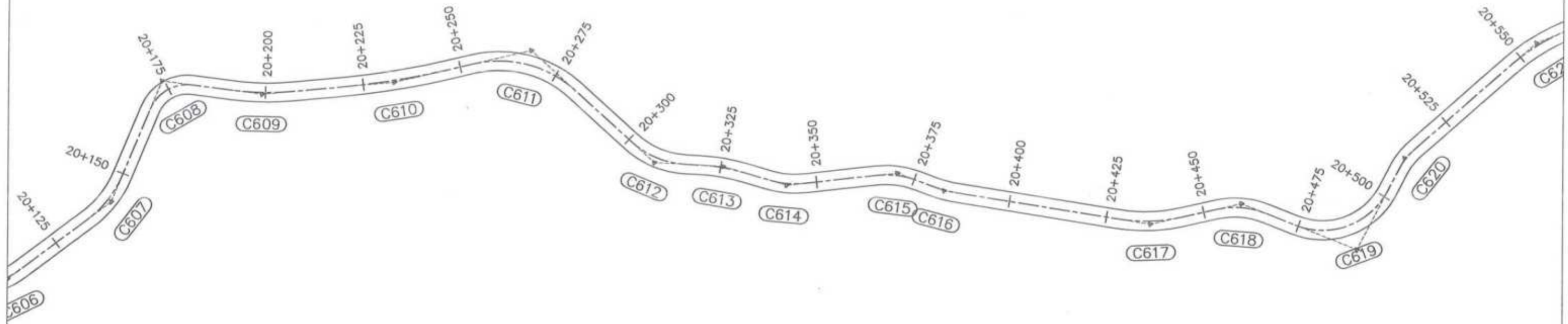


F.R.L	19+800	19+825	19+850	19+875	19+900	19+925	19+950	19+975	20+000	20+025	20+050	20+075	20+100	20+125	20+150
N.S.L	1862.162	1862.235	1861.408	1859.677	1857.254	1854.784	1852.313	1849.860	1847.538	1845.370	1843.354	1841.492	1839.783	1838.211	1836.660
STATION	19+800	19+825	19+850	19+875	19+900	19+925	19+950	19+975	20+000	20+025	20+050	20+075	20+100	20+125	20+150

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

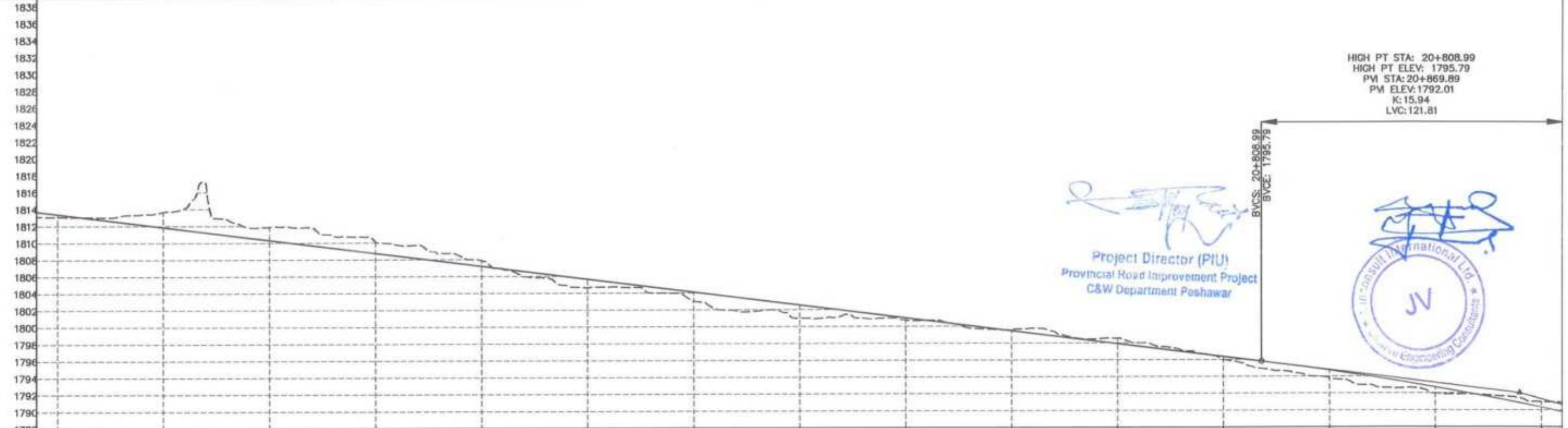
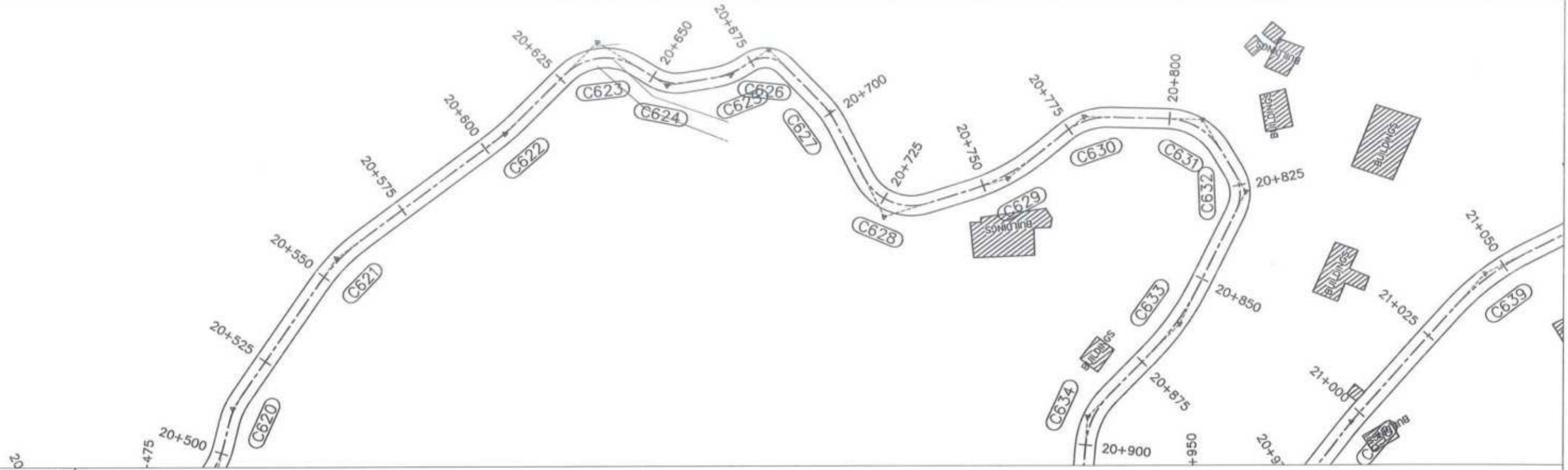
JV

 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	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000 V=1:500	PLAN & PROFILE 19+800.00 - 20+160.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S.DURRANI										
									DATE:	CEC/HWKP-RRDP/N_CHT_2/PP/				
									AUG, 2024	56				



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

 GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	 MINCONSULT SDN BHD (COMPANY NO. 55835-P) J.V.  CREATIVE ENGINEERING CONSULTANTS (CEC)	REV	DATE	DESCRIPTION	NAMES:		PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT: PLAN & PROFILE 20+160.00 - 20+520.00 CEC/RW/KP-RRDP/N_CHT_2/PP/ 57
		0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500	
		a			DRAWN	IMRAN			DATE:	
		b			CHECKED	AQEEL YOUNIS			AUG, 2024	
c			APPROVED	S.DURRANI						



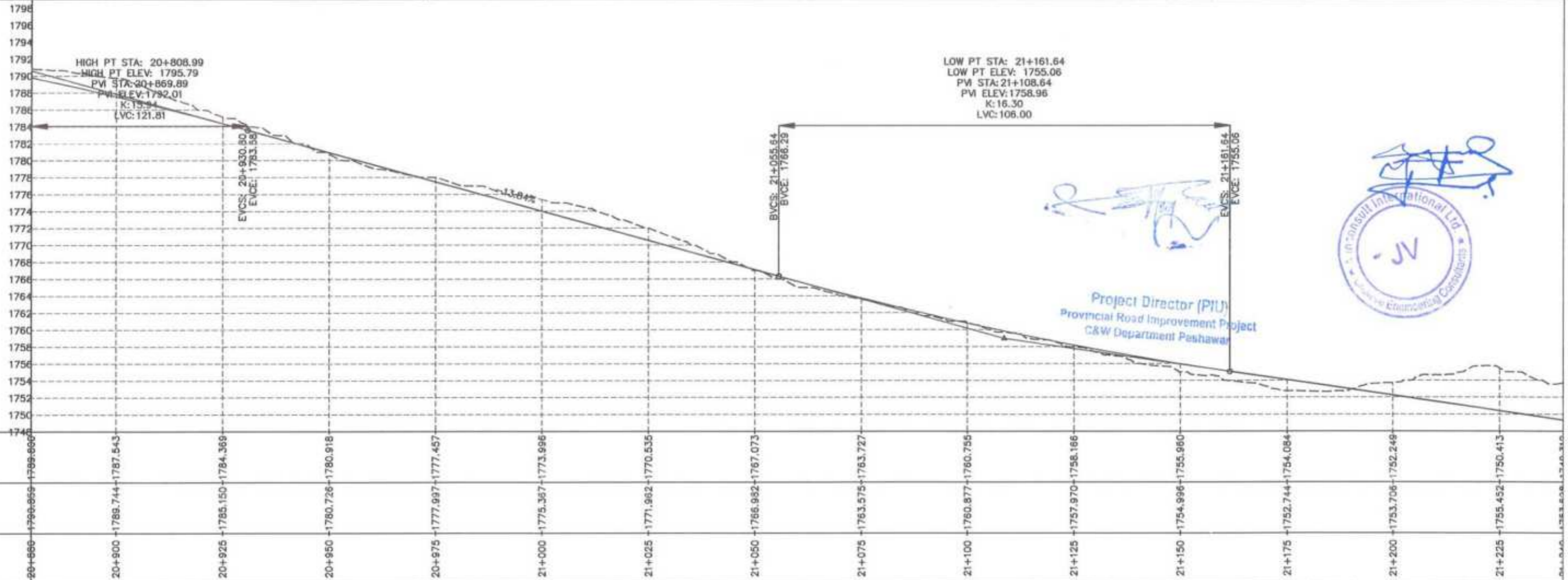
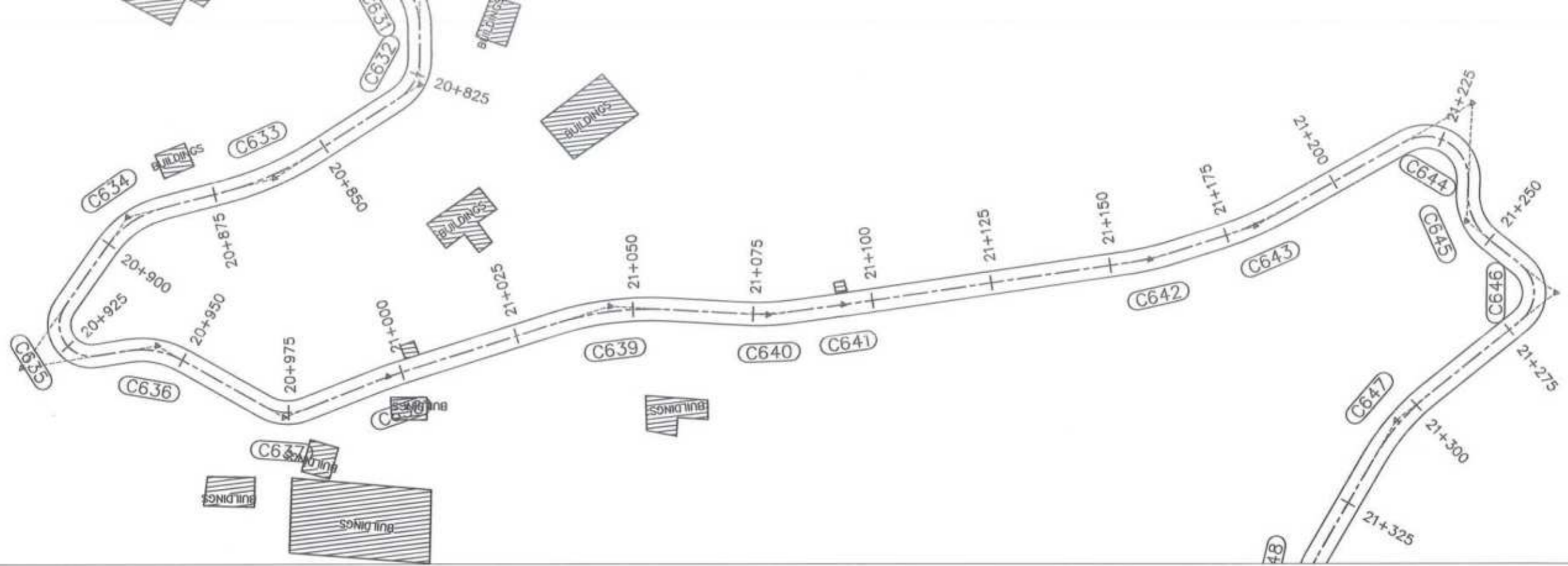
HIGH PT STA: 20+808.99  
 HIGH PT ELEV: 1795.79  
 PM STA: 20+869.89  
 PM ELEV: 1792.01  
 K: 15.94  
 LVC: 121.81

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



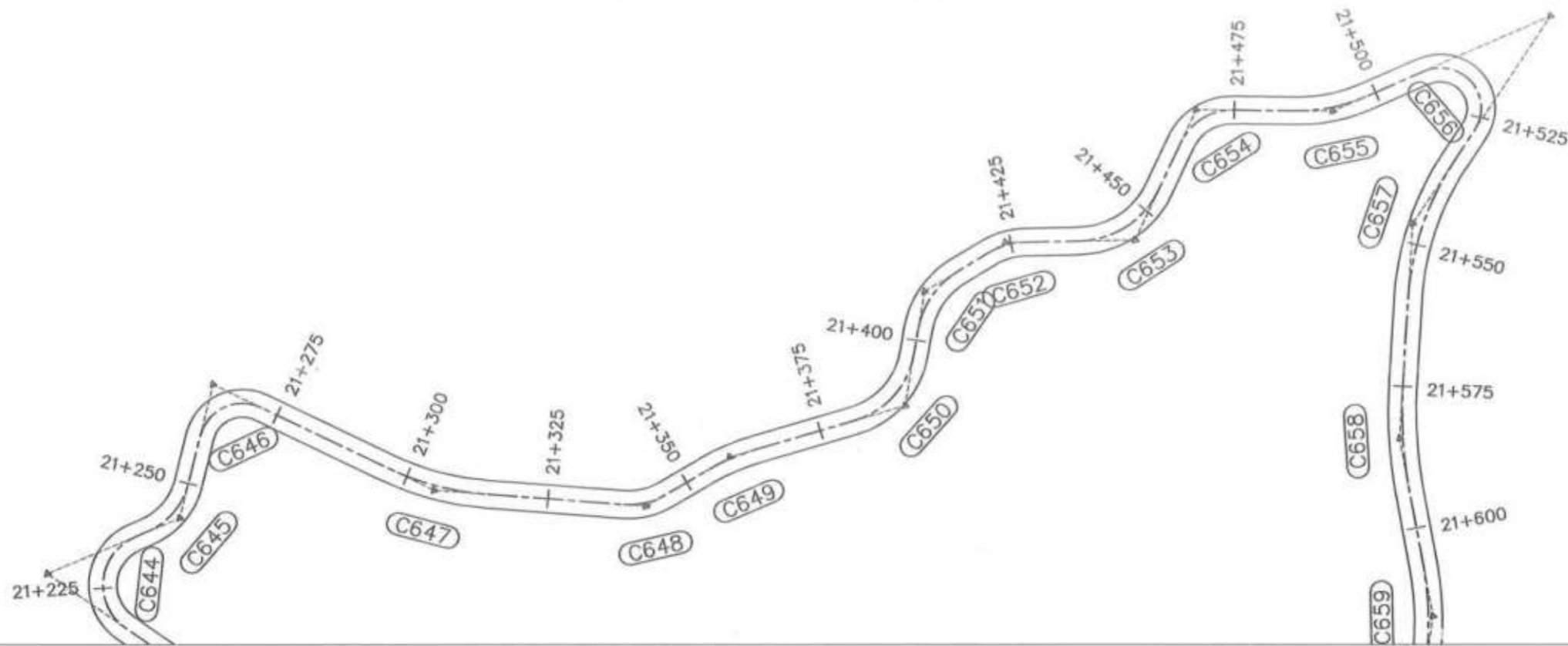
F.R.L	1813.711	1813.401	1811.850	1810.300	1808.749	1807.198	1805.648	1804.097	1802.547	1800.996	1799.445	1797.895	1796.344	1794.713	1792.715	1790.325
N.S.L	1813.431	1813.087	1811.670	1811.873	1810.089	1807.903	1804.651	1803.000	1800.999	1800.723	1799.604	1798.529	1796.003	1793.756	1791.967	1790.949
STATION	20+520	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	TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON	H=1:1000 V=1:500	20+520.00 - 20+880.00
		a			DRAWN	IMRAN								
		b			CHECKED	AQEEL YOUNIS								
c			APPROVED	S. DURRANI										
										DATE:	CEC/HW/KP-RRDP/N_CHT_2/PP/	58		

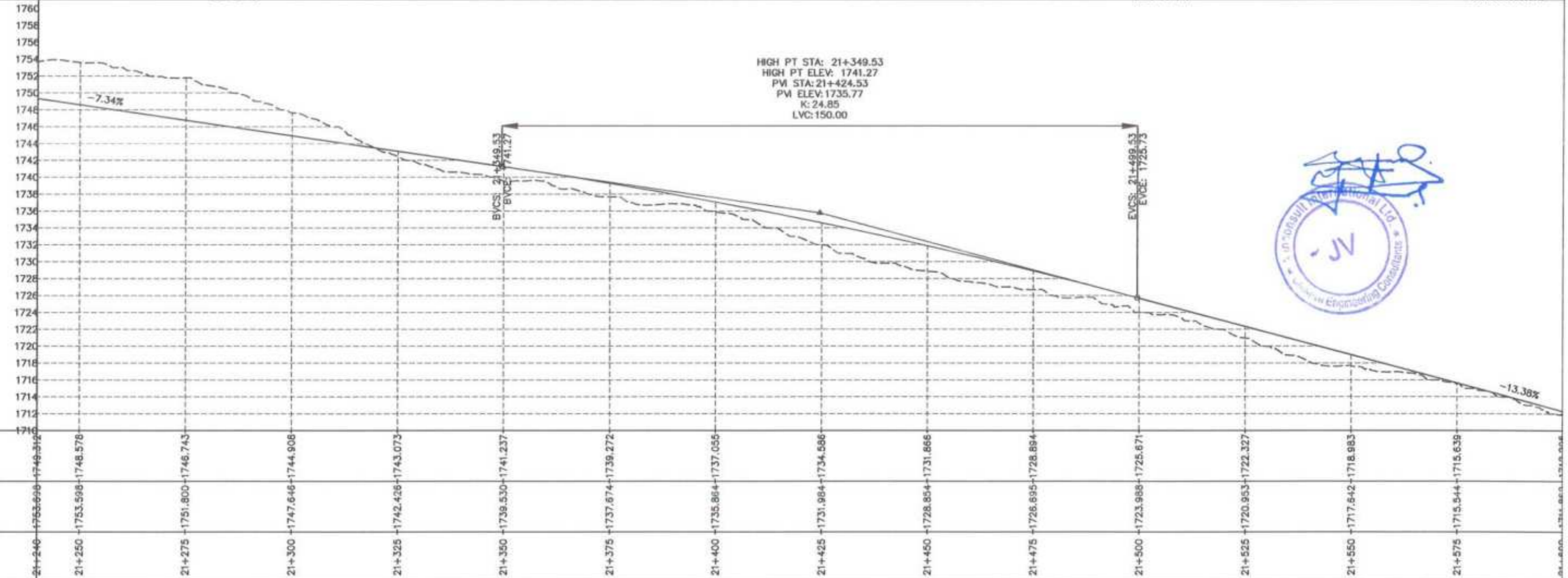


Project Director (PIU)  
 Provincial Road Improvement Project  
 C&W Department Peshawar

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 TANZEEL	KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2	H=1:1000	PLAN & PROFILE 20+880.00 - 21+240.00
		a			DRAWN IMRAN		OSAIC TO ORSOON	DATE:	
		b			CHECKED AQEEL YOUNIS			AUG, 2024	
		c			APPROVED S.DURRANI		ACCESS ROAD		



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

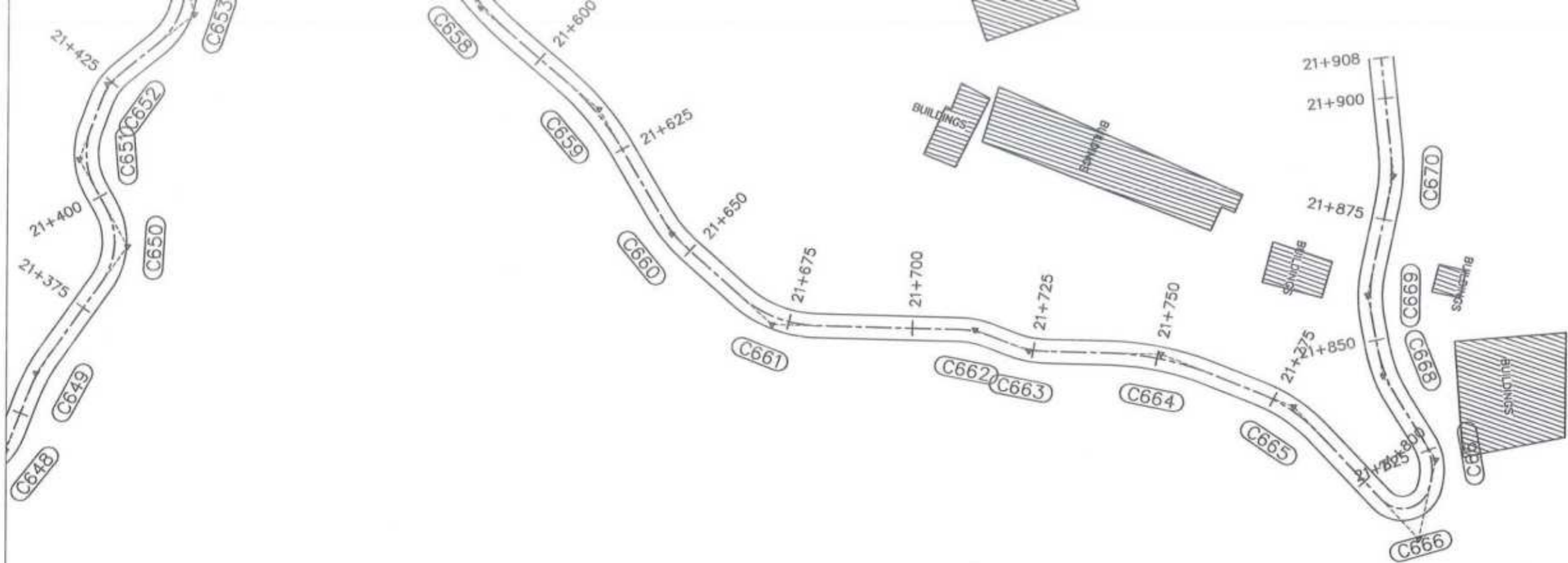


STATION	F.R.L	N.S.L
21+240	1755.668	1749.514
21+250	1753.598	1748.578
21+275	1751.800	1746.743
21+300	1747.646	1744.908
21+325	1742.426	1743.073
21+350	1739.530	1741.237
21+375	1737.674	1739.272
21+400	1735.864	1737.055
21+425	1731.964	1734.586
21+450	1728.854	1731.866
21+475	1726.895	1728.894
21+500	1723.988	1725.671
21+525	1720.953	1722.327
21+550	1717.642	1718.983
21+575	1715.544	1715.639
21+600	1714.800	1714.800

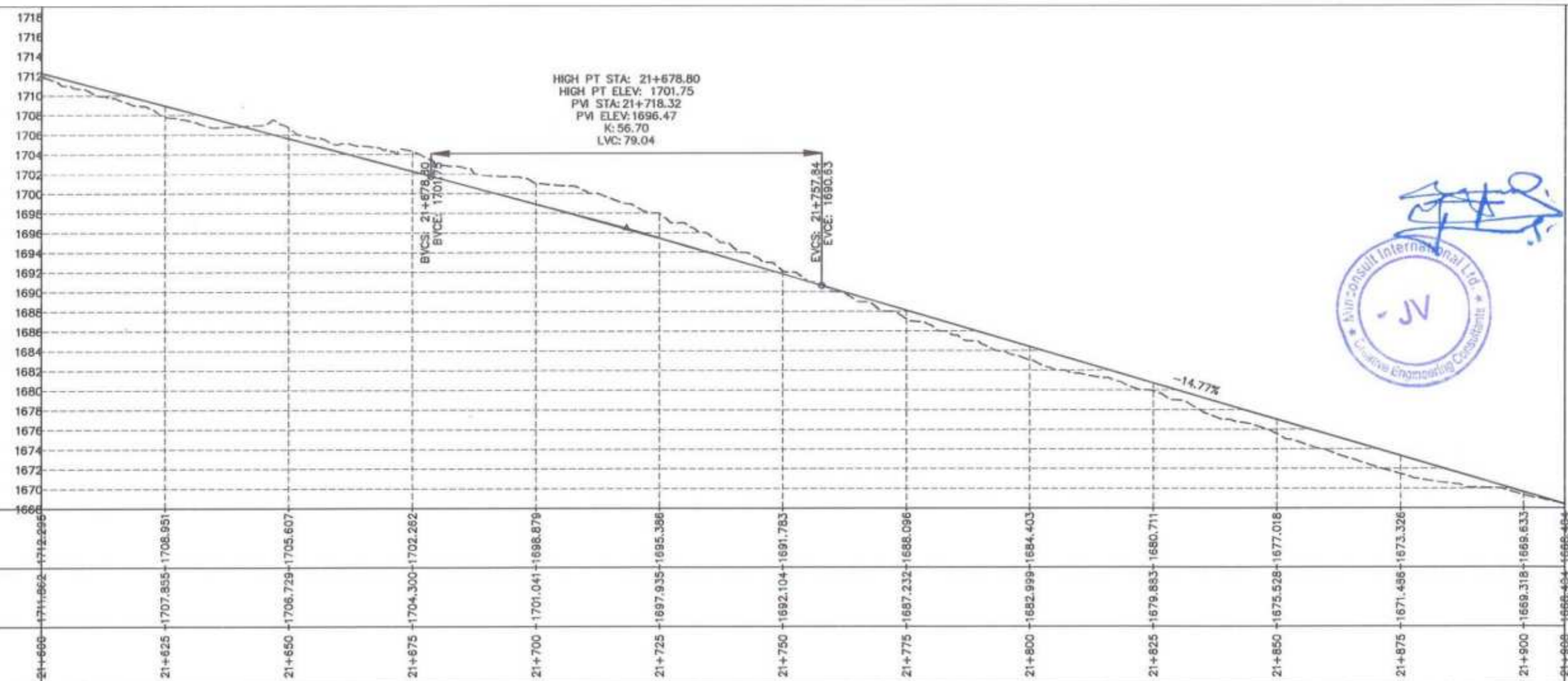
  

CLIENT:	DESIGN CONSULTANT:	REV	DATE	DESCRIPTION	NAMES:	PROJECT:	ROAD NAME:	SCALE:	SHEET CONTENT:
GOVERNMENT OF KHYBER PAKHTUNKHWA COMMUNICATION & WORKS DEPARTMENT PROJECT IMPLEMENTATION UNIT (PIU)	MINCONSULT SDN BHD (COMPANY NO. 58835-P) J.V. CREATIVE ENGINEERING CONSULTANTS (CEC)	0	AUG, 2024	TENDER DRAWINGS.	G.DESIGNED	TANZEEL	N_CHT_2 OSAIC TO ORSOON ACCESS ROAD	H=1:1000 V=1:500	PLAN & PROFILE 21+240.00 - 21+600.00
		a			DRAWN	IMRAN			
		b			CHECKED	AQEEL YOUNIS			
		c			APPROVED	S.DURRANI			
						KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)		DATE:	
								AUG, 2024	CEC/HW/KP-RRDP/N_CHT_2/PP1 60






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



  
  
 - JV  
 Creative Engineering Consultants

 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 TANZEEL					KHYBER PAKHTUNKHWA RURAL ROAD DEVELOPMENT PROJECT (KP-RRDP)	N_CHT_2 OSAIC TO ORSOON  ACCESS ROAD	H=1:1000 V=1:500 DATE: AUG, 2024	PLAN & PROFILE 21+600.00 - 21+908.32
		a			DRAWN IMRAN								
		b			CHECKED AQEEL YOUNIS								
c			APPROVED S.DURRANI										
								CEC/HWKP-RRDP/N_CHT_2/PP/ 61					