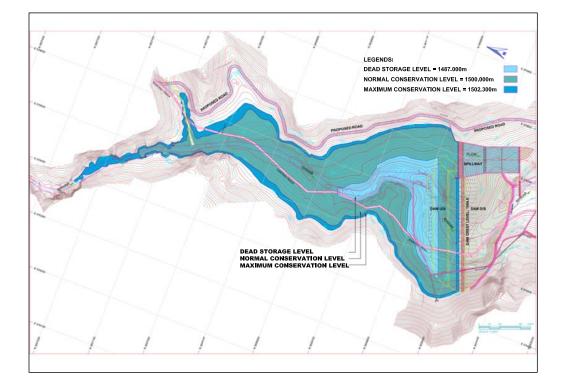
#### SMALL DAMS SECTION MERGED AREAS, **IRRIGATION DEPARTMENT KHYBER PAKHTUNKHWA**



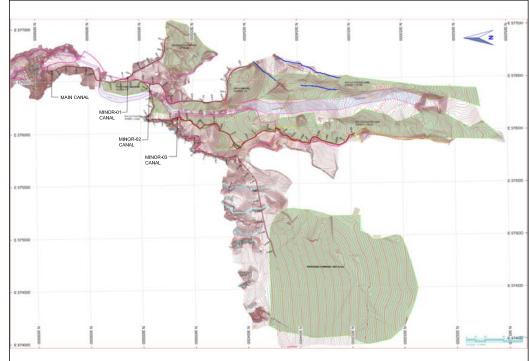
#### **ZANGOTAI SMALL DAM - NORTH WAZIRISTAN**

**TENDER DRAWINGS** 



**VOLUME II** 

**SEPTEMBER, 2021** 





**CONSULTING ASSOCIATES PESHAWAR** 

NEAR DEANS COMPLEX APARTMENTS, BOARD BAZAR, BEHID GUL CNG, JAMRUD ROAD PEHSAWAR, PAKISTAN PH: +92 91 5701774 Fax: 92 91 5701775 EMAIL: Consultingassociates127@gmail.com





**GHASSAN SATTAR KHAN CONSULTING** ENGINEER

PASE 3 CHAWAK, NEAR TO SHAHAB ORTHOPEDIC HOSPITAL





# **LD-LIST OF DRAWINGS**





Scanned with CamScanner

	DRAWING N	10				DRAWING	NO			
ONSULTING SSOCIATES	PACKAGE-IX	TYPE	NO	DRAWING TITLE	CONSULTING ASSOCIATES	PACKAGE-IX	TYPE	NO	DRAWING TITLE	
·	·			LD-LIST OF DRAWINGS					MC-MAIN CHANNEL	
CA	PK-IX	LD	01	LIST OF DRAWINGS (SHEET 01 OF 01)	СА	PK-IX	MC	06	MAIN CHANNEL PLAN & PROFILE RD = 2+900 TO 3+480 (SHEET 06 OF 07)	
I	1		1	GLD-GENERAL LAYOUT DRAWINGS	СА	PK-IX	MC	07	MAIN CHANNEL PLAN & PROFILE RD = 3+480 TO 3+660 (SHEET 07 OF 07)	
CA	PK-IX	GLD	01	PROJECT LOCATION MAP (SHEET 01 OF 01)	СА	PK-IX	MC	08	MAIN CHANNEL & MINOR-01, 02 & 03 TYPICAL SECTIONS (SHEET 01 OF 01)	
CA	PK-IX	GLD	02	COMMAND AREA MAP (SHEET 01 OF 01)		11			M1-MINOR-01	
			<u> </u>	GEO-GEOLOGICAL MAPS	СА	PK-IX	M1	01	MINOR-01 PLAN & PROFILE RD = 0+000 TO 0+580 (SHEET 01 OF 02)	
CA	PK-IX	GEO	01	PROJECT AREA GEOLOGICAL MAP (SHEET 01 OF 01)	СА	PK-IX	M1	02	MINOR-01 PLAN & PROFILE RD = 0+580 TO 0+750 (SHEET 02 OF 02)	
			L	DM-DAM		11			M2-MINOR-02	
CA	PK-IX	DM	01	DAM LAYOUT PLAN (SHEET 01 OF 01)	СА	PK-IX	M2	01	MINOR-02 PLAN & PROFILE RD = 0+000 TO 0+580 (SHEET 01 OF 03)	
CA	PK-IX	DM	02	DAM TYPICAL CROSS SECTION (SHEET 01 OF 01)	СА	PK-IX	M2	02	MINOR-02 PLAN & PROFILE RD = 0+580 TO 1+160 (SHEET 02 OF 03)	
CA	PK-IX	DM	03	DAM SECTION & PLAN (SEE DETAIL "A") (SHEET 01 OF 01)	СА	PK-IX	M2	03	MINOR-02 PLAN & PROFILE RD = 1+160 TO 1+390 (SHEET 03 OF 03)	
CA	PK-IX	DM	04	DAM INSTRUMENTATION LAYOUT PLAN (SHEET 01 OF 01)					M3-MINOR-03	
СА	PK-IX	DM	05	DAM INSTRUMENTATION DETAILS (SHEET 01 OF 01)	СА	PK-IX	M3	01	MINOR-03 PLAN & PROFILE RD = 0+000 TO 0+580 (SHEET 01 OF 04)	
				SP-SPILLWAY	СА	PK-IX	M3	02	MINOR-03 PLAN & PROFILE RD = 0+580 TO 1+160 (SHEET 02 OF 04)	
CA	PK-IX	SP	01	SPILLWAY GENERAL PLAN & PROFILE (SHEET 01 OF 01)	CA	PK-IX	M3	03	MINOR-03 PLAN & PROFILE RD = 1+160 TO 1+740 (SHEET 03 OF 04)	
CA	PK-IX	SP	02	SPILLWAY DETAIL PROFILE (SHEET 01 OF 01)	CA	PK-IX	M3	04	MINOR-03 PLAN & PROFILE RD = 1+740 TO 2+230 (SHEET 04 OF 04)	
CA	PK-IX	SP	03	SPILLWAY REINFORCEMENT DETAILS (SHEET 01 OF 01)					HS-HYDRAULIC STRUCTURES	
CA	PK-IX	SP	04	DETAIL & EXCAVATION SECTIONS (SHEET 01 OF 07)	СА	PK-IX	HS	01	AQUEDUCT STRUCTURE DETAILS (SHEET 01 OF 02)	
CA	PK-IX	SP	05	DETAIL & EXCAVATION SECTIONS (SHEET 02 OF 07)	CA	PK-IX	HS	02	AQUEDUCT STRUCTURE DETAILS (SHEET 02 OF 02)	
CA	PK-IX	SP	06	DETAIL & EXCAVATION SECTIONS (SHEET 03 OF 07)	CA	PK-IX	HS	03	PIPE CULVERT DETAILS (SHEET 01 OF 02)	
CA	PK-IX	SP	07	DETAIL & EXCAVATION SECTIONS (SHEET 04 OF 07)	СА	PK-IX	HS	04	PIPE CULVERT DETAILS (SHEET 02 OF 02)	
CA	PK-IX	SP	08	DETAIL & EXCAVATION SECTIONS (SHEET 05 OF 07)	СА	PK-IX	HS	05	BOX CULVERT DETAILS (SHEET 01 OF 01)	
CA	PK-IX	SP	09	DETAIL & EXCAVATION SECTIONS (SHEET 06 OF 07)	CA	PK-IX	HS	06	TYPICAL SUPER PASSAGE DETAILS (SHEET 01 OF 01)	
CA	PK-IX	SP SP	10	DETAIL & EXCAVATION SECTIONS (SHEET 07 OF 07)	СА	PK-IX	HS	07	TYPICAL PIPE OUTLET DETAILS (SHEET 01 OF 01)	
CA		35	10	DC-DIVERSION CHANEL	CA	PK-IX PK-IX	HS	07	FALL STRUCTURE DETAILS (SHEET 01 OF 01)	
СА	PK-IX	DC	01	DIVERSION CHANNEL DIVERSION CHANNEL (SHEET 01 OF 01)	CA	PK-IX PK-IX	HS	08	TAIL CLUSTER DETAILS (SHEET 01 OF 01)	
CA		DC		IA-INTAKE TOWER & ACCESS BRIDGE		FK-IA	пэ	09	AR-ACCESS ROAD	
CA	PK-IX	IA	01	INTAKE TOWER & ACCESS BRIDGE LAYOUT PLAN (SHEET 01 OF 01)	СА	PK-IX	AR	01	PLAN & PROFILE RD = 0+000 TO 0+580 (SHEET 01 OF 03)	
				ACCESS BRIDGE GENERAL PLAN & PROFILE (SHEET 01 OF 01)					PLAN & PROFILE RD = 0+580 TO 1+160 (SHEET 02 OF 03)	
CA	PK-IX		02	INTAKE TOWER DETAIL PLAN & SECTIONS (SHEET 01 OF 01)	CA	PK-IX	AR	02	PLAN & PROFILE RD = 1+160 TO 1+407 (SHEET 03 OF 03)	
CA	PK-IX	IA	03	ACCESS BRIDGE SECTIONS & DETAILS (SHEET 01 OF 01)	CA	PK-IX	AR	03	ACCESS ROAD TYPICAL CROSS SECTIONS (SHEET 01 OF 02)	
CA	PK-IX	IA	04		CA	PK-IX	AR	04		
CA	PK-IX		05	INTAKE TOWER REINFORCEMENT SECTIONS & DETAILS (SHEET 01 OF 02)	CA	PK-IX	AR	05	ACCESS ROAD TYPICAL CROSS SECTIONS (SHEET 02 OF 02)	
CA	PK-IX	IA	06	INTAKE TOWER REINFORCEMENT SECTIONS & DETAILS (SHEET 02 OF 03)						
CA	PK-IX	IA	07	INTAKE TOWER REINFORCEMENT SECTIONS & DETAILS (SHEET 03 OF 03)	CA	PK-IX	IH	01	DETAILED WORKING PLAN (SHEET 01 OF 01)	
CA	PK-IX		08	DELIVERY PIPE DETAIL PROFILE (SHEET 01 OF 01)	CA	PK-IX	IH	02	DETAILED SECTIONS AND ELEVATION (SHEET 01 OF 01)	
CA	PK-IX	IA	09	DELIVERY PIPE TYPICAL SECTIONS, DETAILS & REINFORCEMENT DETAILS (SHEET 01 OF 01)	CA	PK-IX	IH	03	VERANDAH BEAM REINFORCEMENT LONG SECTION & SECTIONS (SHEET 01 OF 01)	
					CA	PK-IX	IH	04	SLAB REINFORCEMENT DETAILS (SHEET 01 OF 01)	
CA	PK-IX	MC	01	MAIN CHANNEL PLAN & PROFILE RD = 0+000 TO 0+580 (SHEET 01 OF 07)					ociales P	
CA	PK-IX	MC	02	MAIN CHANNEL PLAN & PROFILE RD = 0+580 TO 1+160 (SHEET 02 OF 07)						
CA	PK-IX	MC	03	MAIN CHANNEL PLAN & PROFILE RD = 1+160 TO 1+740 (SHEET 03 OF 07)						
CA	PK-IX	MC	04	MAIN CHANNEL PLAN & PROFILE RD = 1+740 TO 2+320 (SHEET 04 OF 07)						
CA	PK-IX	MC	05	MAIN CHANNEL PLAN & PROFILE RD = 2+320 TO 2+900 (SHEET 05 OF 07)	]				091-5101	

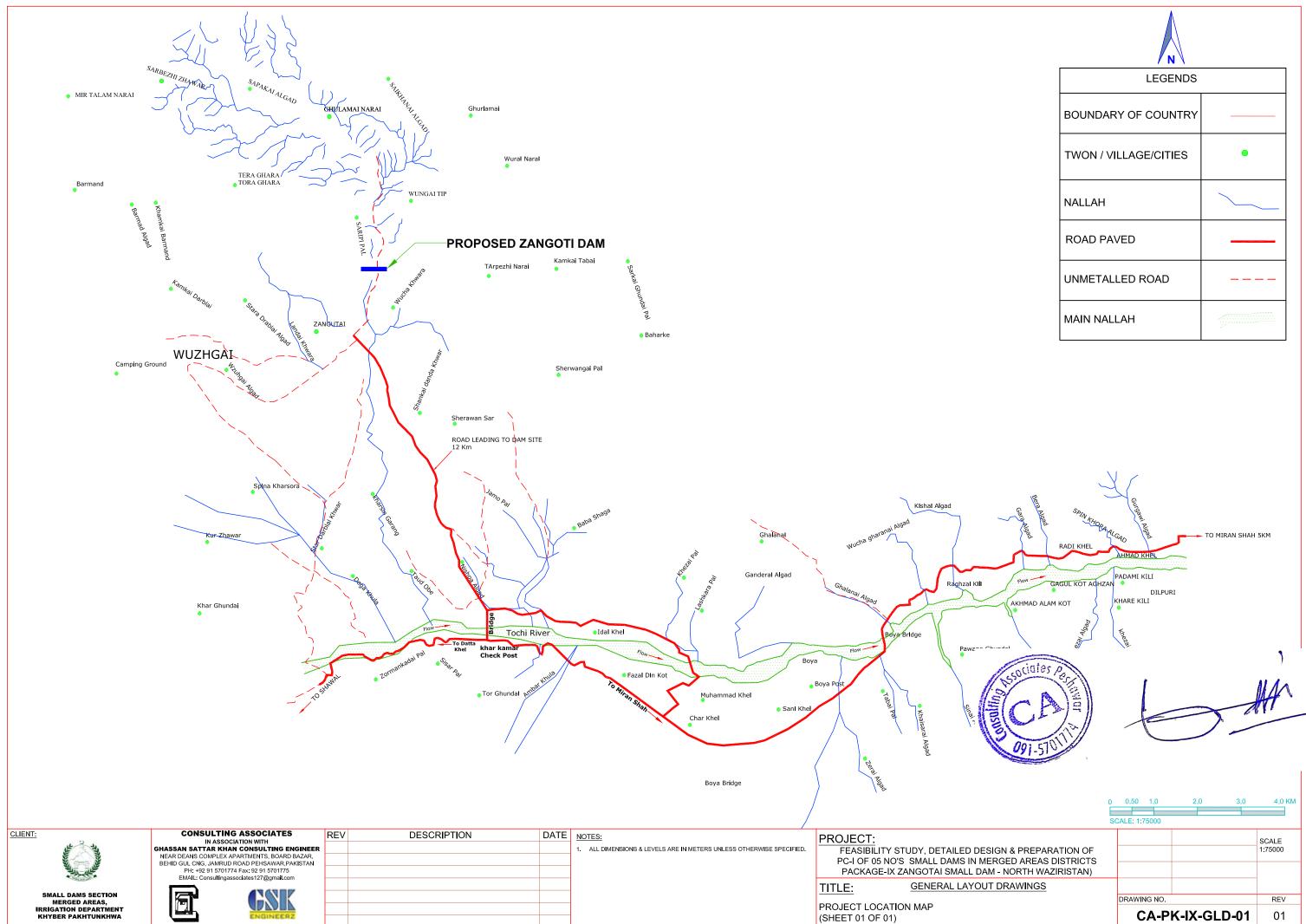
CLIENT:		REV	DESCRIPTION	DATE	NOTES:	PROJECT:	
15 34	IN ASSOCIATION WITH GHASSAN SATTAR KHAN CONSULTING ENGINEER				1. ALL DIMENSIONS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.	FEASIBILITY STUDY	
	NEAR DEANS COMPLEX APARTMENTS, BOARD BAZAR, BEHID GUL CNG, JAMRUD ROAD PEHSAWAR, PAKISTAN					PC-I OF 05 NO'S SMA	
Winter Charles	PH: +92 91 5701774 Fax: 92 91 5701775					PACKAGE-IX ZANG	
	EMAIL: Consultingassociates127@gmail.com				1	TITLE:	LIST OF D
SMALL DAMS SECTION							
MERGED AREAS, IRRIGATION DEPARTMENT						LIST OF DRAWINGS	
KHYBER PAKHTUNKHWA	ENGINEERZ					(SHEET 01 OF 01)	

FILE REFERENCE .: F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/S2021-09-13 TENDER DRAWINGS/00-LIST OF DRAWINGS/01 LIST OF DRAWINGS & SEPRATORS.DWG



# **GLD-GENERAL LAYOUT DRAWINGS**

Scanned with CamScanner

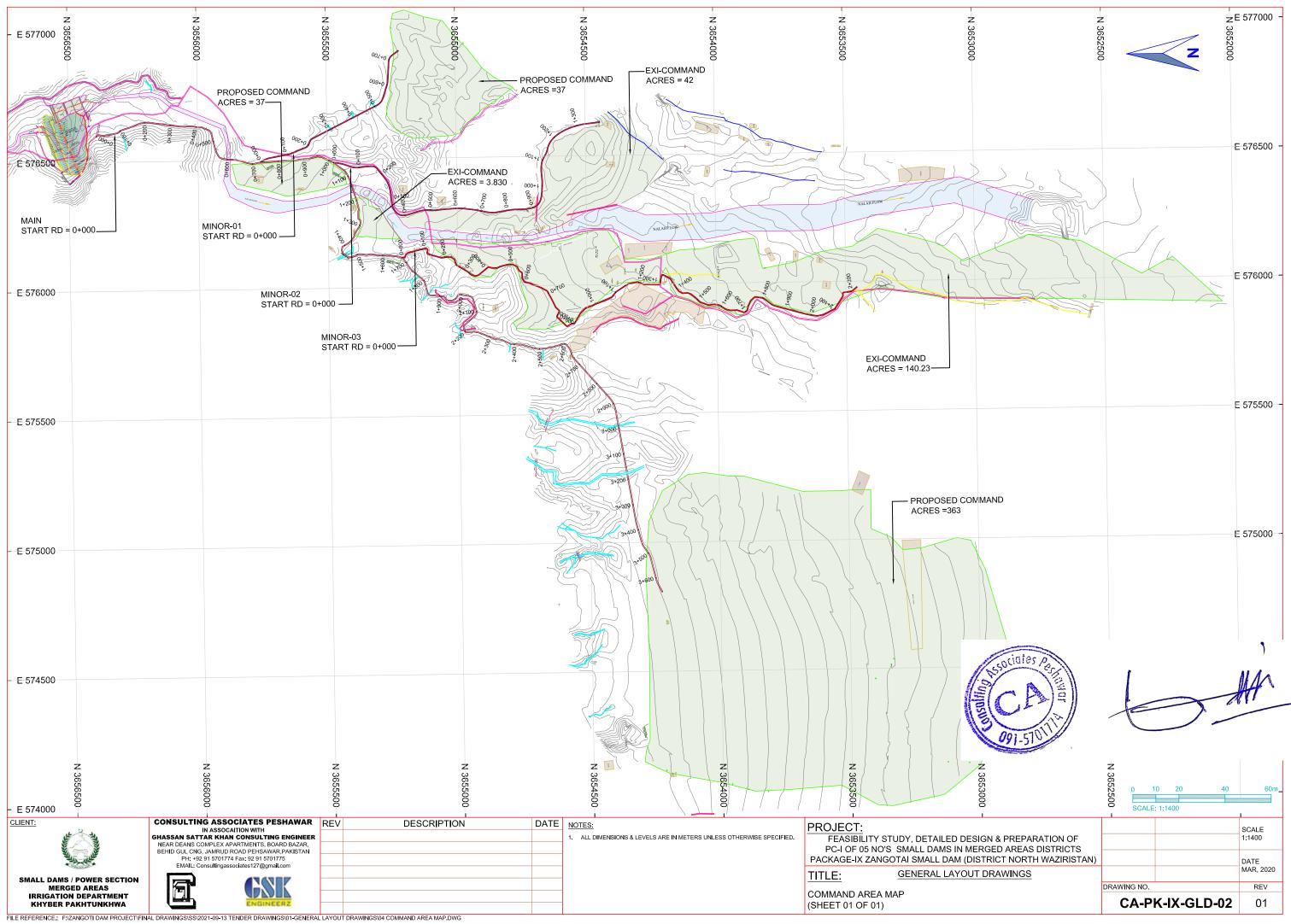


FILE REFERENCE. F. ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\01-GENERAL LAYOUT DRAWINGS\01 PROJECT LOCATION MAP.DWG



LEGENDS	
BOUNDARY OF COUNTRY	
TWON / VILLAGE/CITIES	•
NALLAH	
ROAD PAVED	
UNMETALLED ROAD	
MAIN NALLAH	

	0 SC	0.50 ALE: 1:7	1.0 7500		2.0	3.0	4.0 KM
DESIGN & PREPARATION OF I MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN)							SCALE 1:75000
OUT DRAWINGS							
		DRAWI	NG N	0.			REV
		С	<b>;</b> A	-PK-	IX-G	LD-01	01

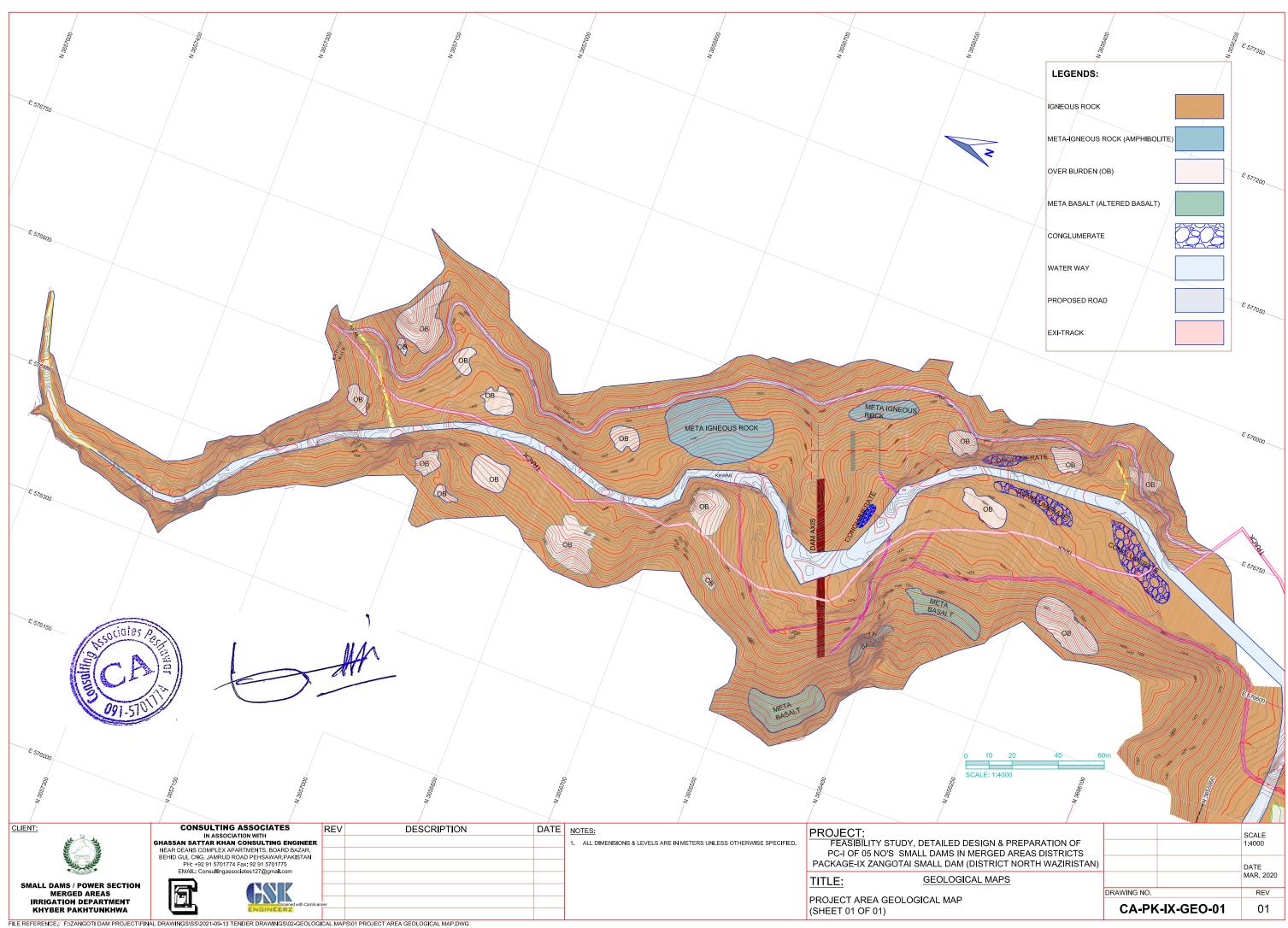


## **GEO-GEOLOGICAL MAPS**





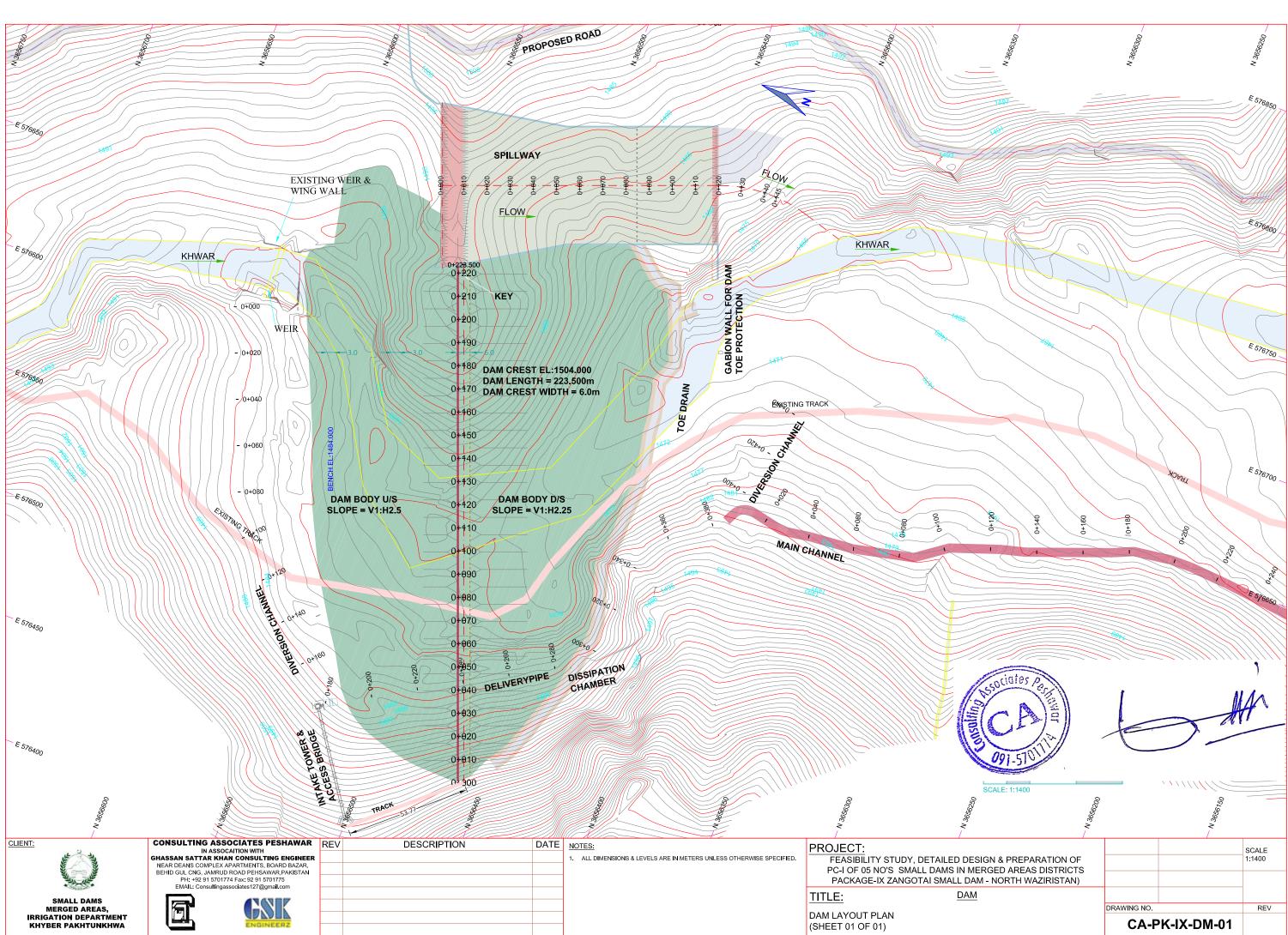




## **DM-DAM**

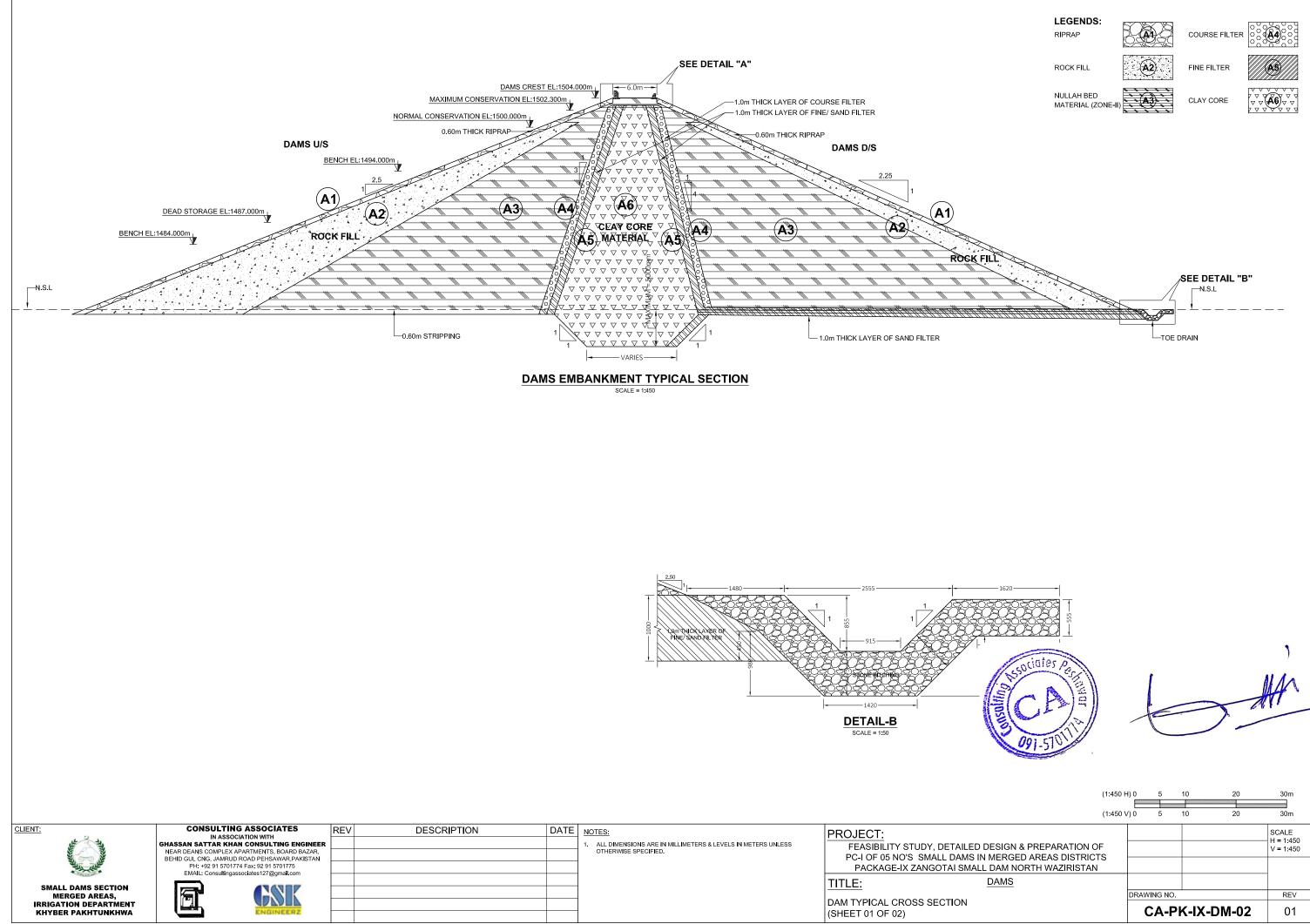




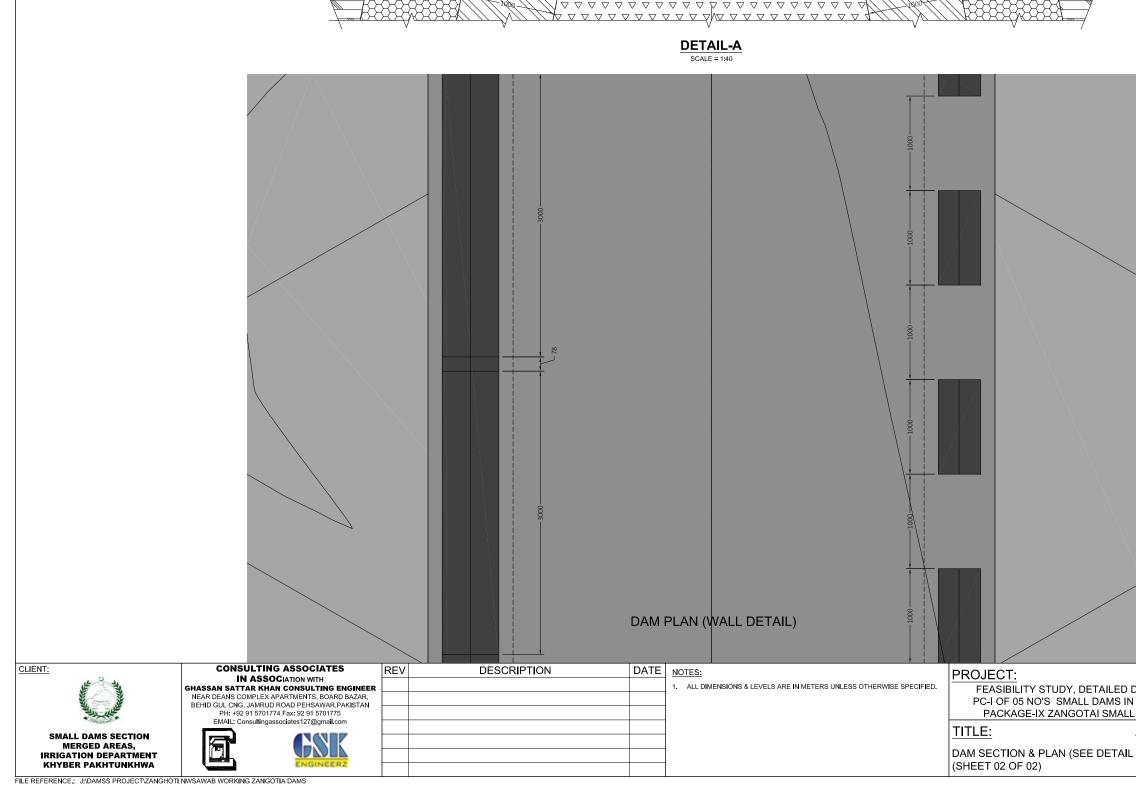


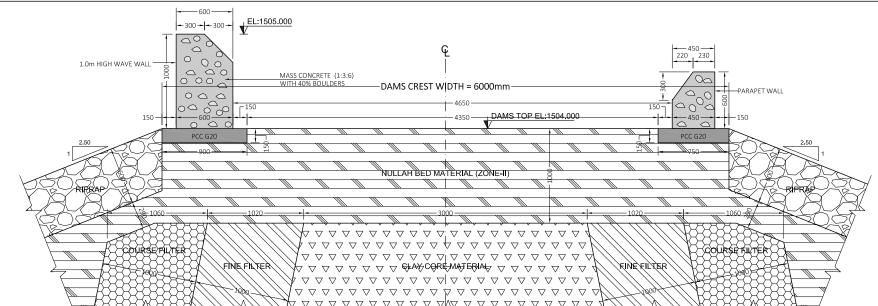
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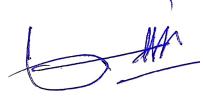
FILE REFERENCE .: J:\DAMSS PROJECT\ZANGHOTI NWSAWAB WORKING ZANGOTIA DAMS



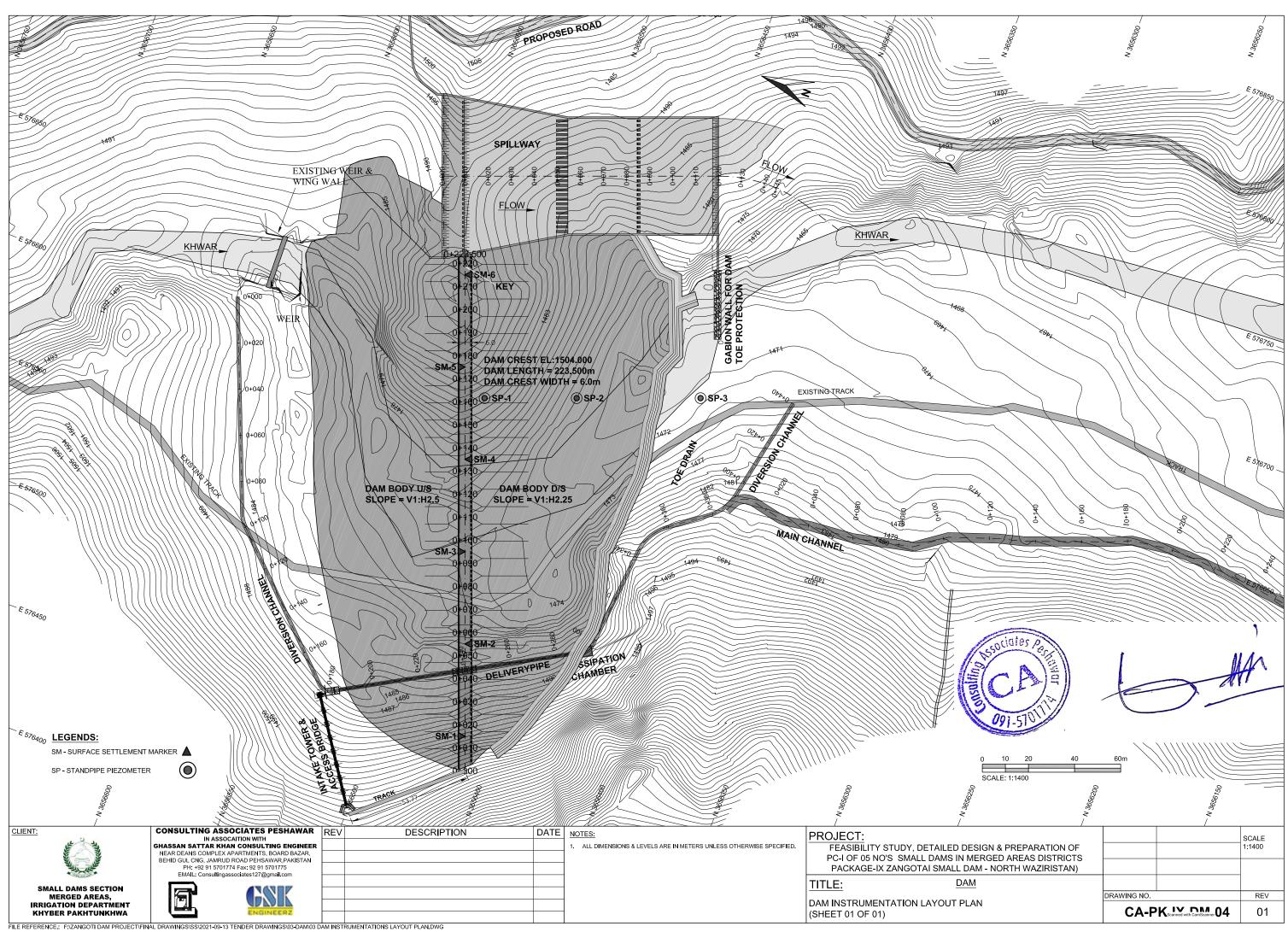


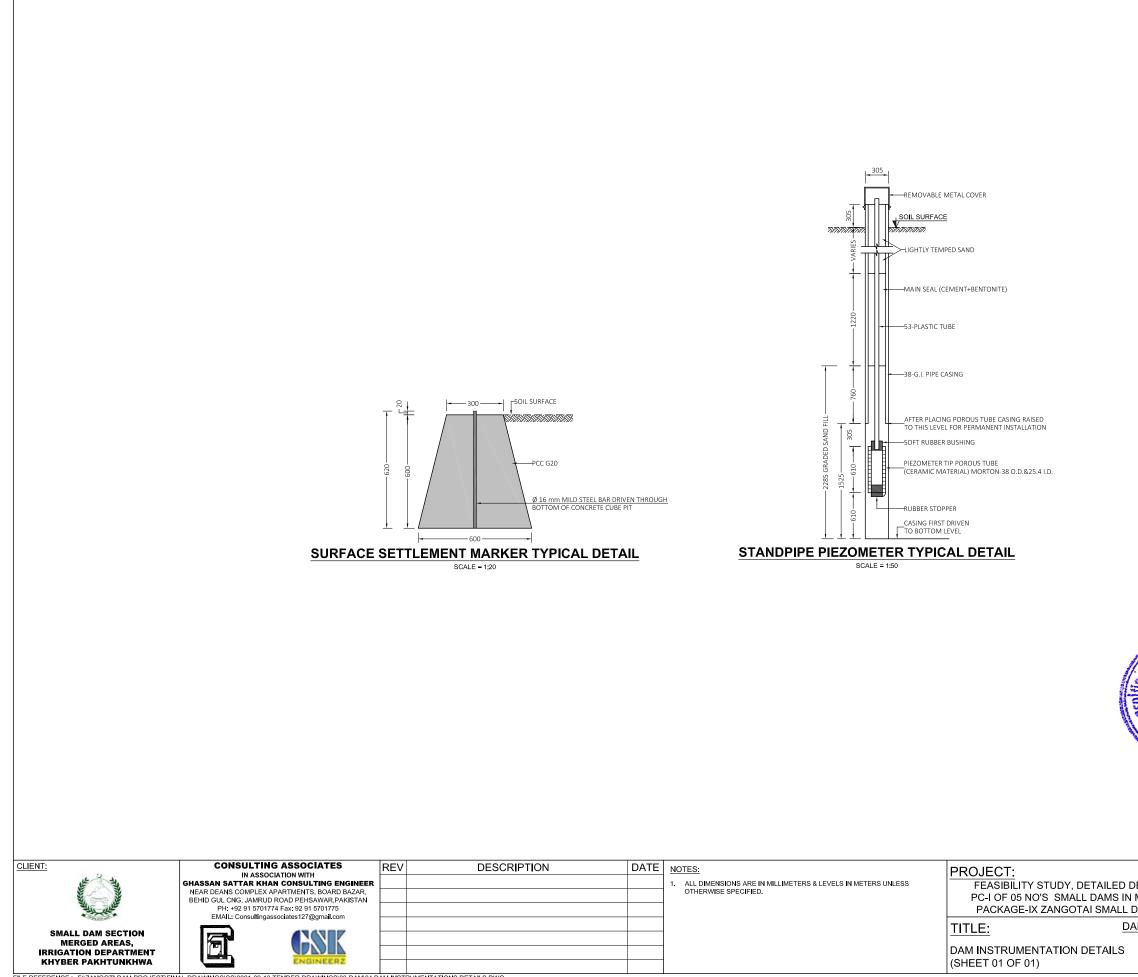
LEGENDS: RIPRAP		COURSE FILTER	
ROCK FILL	(A2)	FINE FILTER	
NULLAH BED MATERIAL (ZONE-		CLAY CORE	





(1:450 H (1:450 )			10	20	30m
DESIGN & PREPARATION OF N MERGED AREAS DISTRICTS L DAM NORTH WAZIRISTAN					SCALE H = 1:450 V = 1:450
DAMS	DRAWING	G NO.		Scanned with CamScanner	REV
L "A")			<-IX-	DM-03	01





FILE REFERENCE .: F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/03-DAM/04 DAM INSTRUMENTATIONS DETAILS.DWG

ED DESIGN & PREPARATION OF S IN MERGED AREAS DISTRICTS ALL DAM - NORTH WAZIRISTAN)		SCALE AS SHOWN
DAM		
	DRAWING NO.	REV
LS	CA-PK-IX-DM-05	



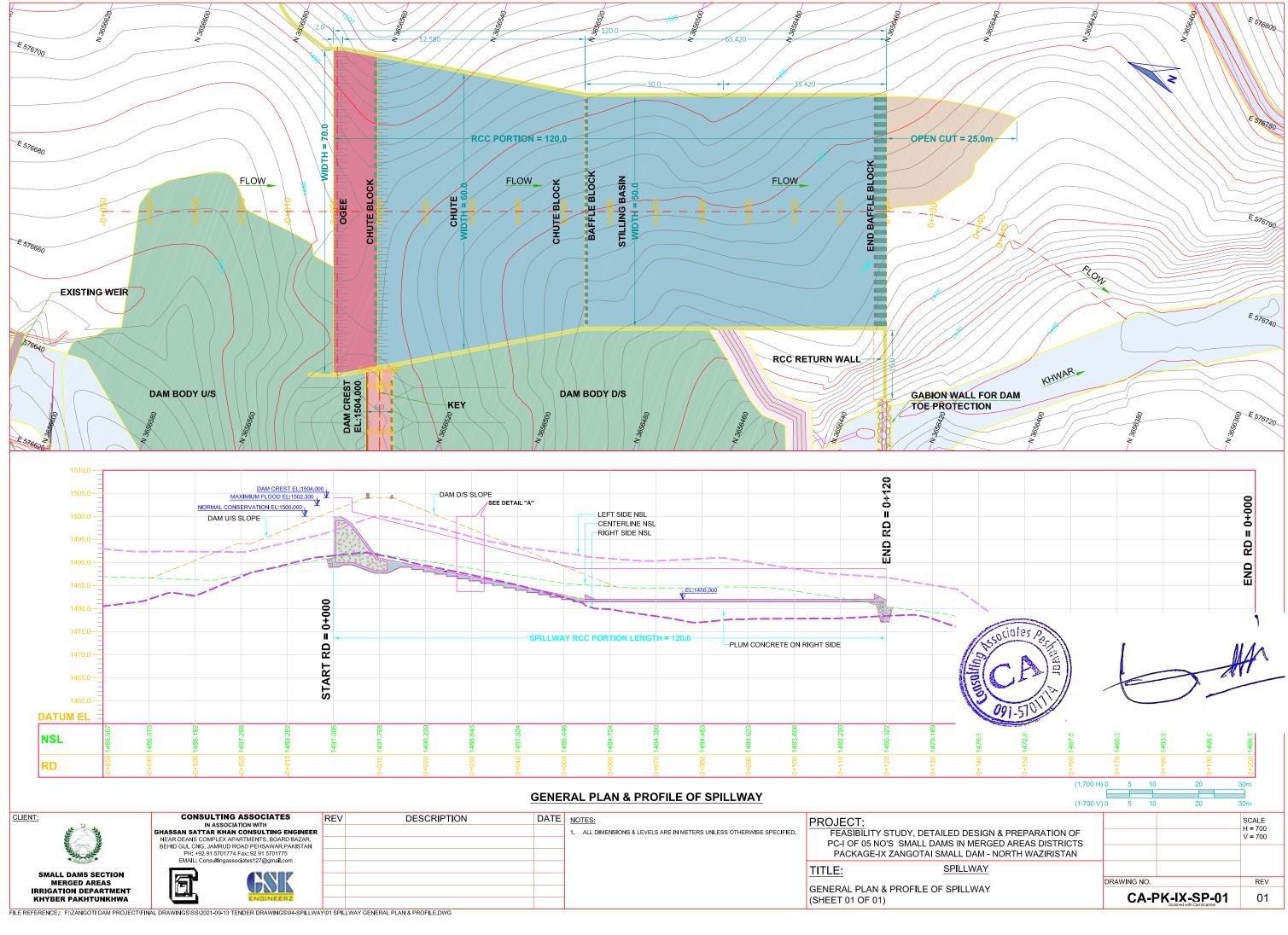


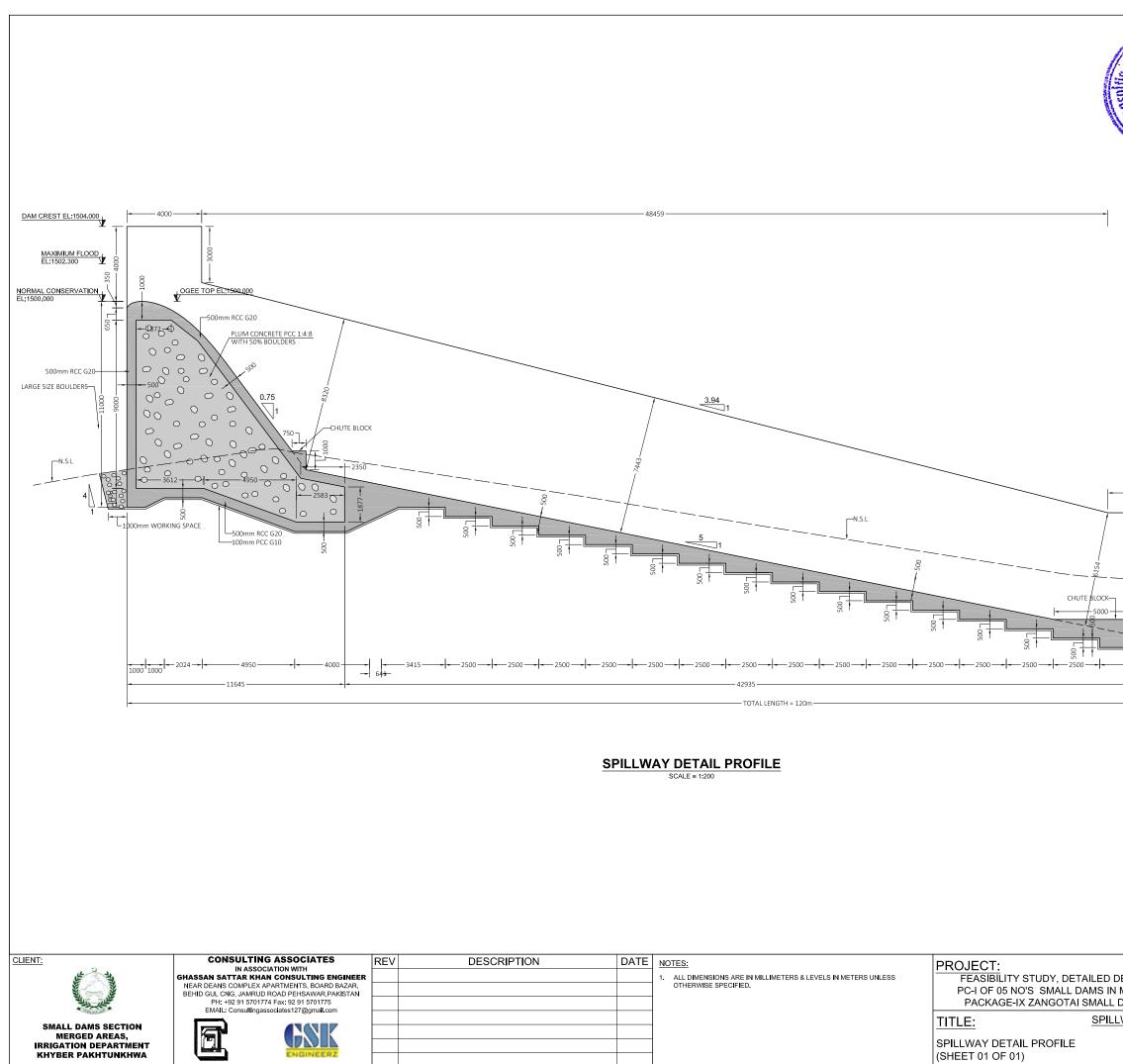
#### **SP-SPILLWAY**







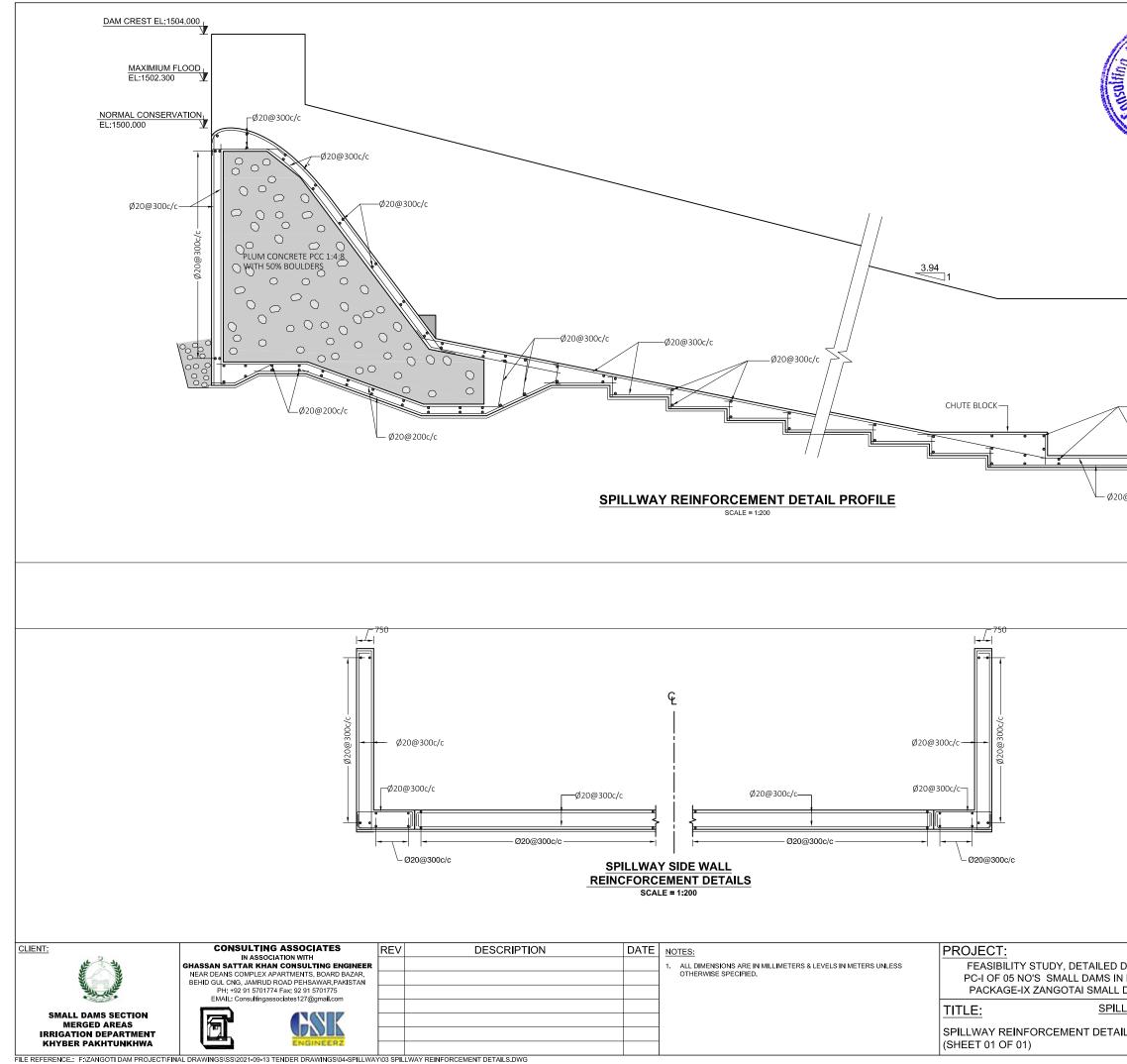




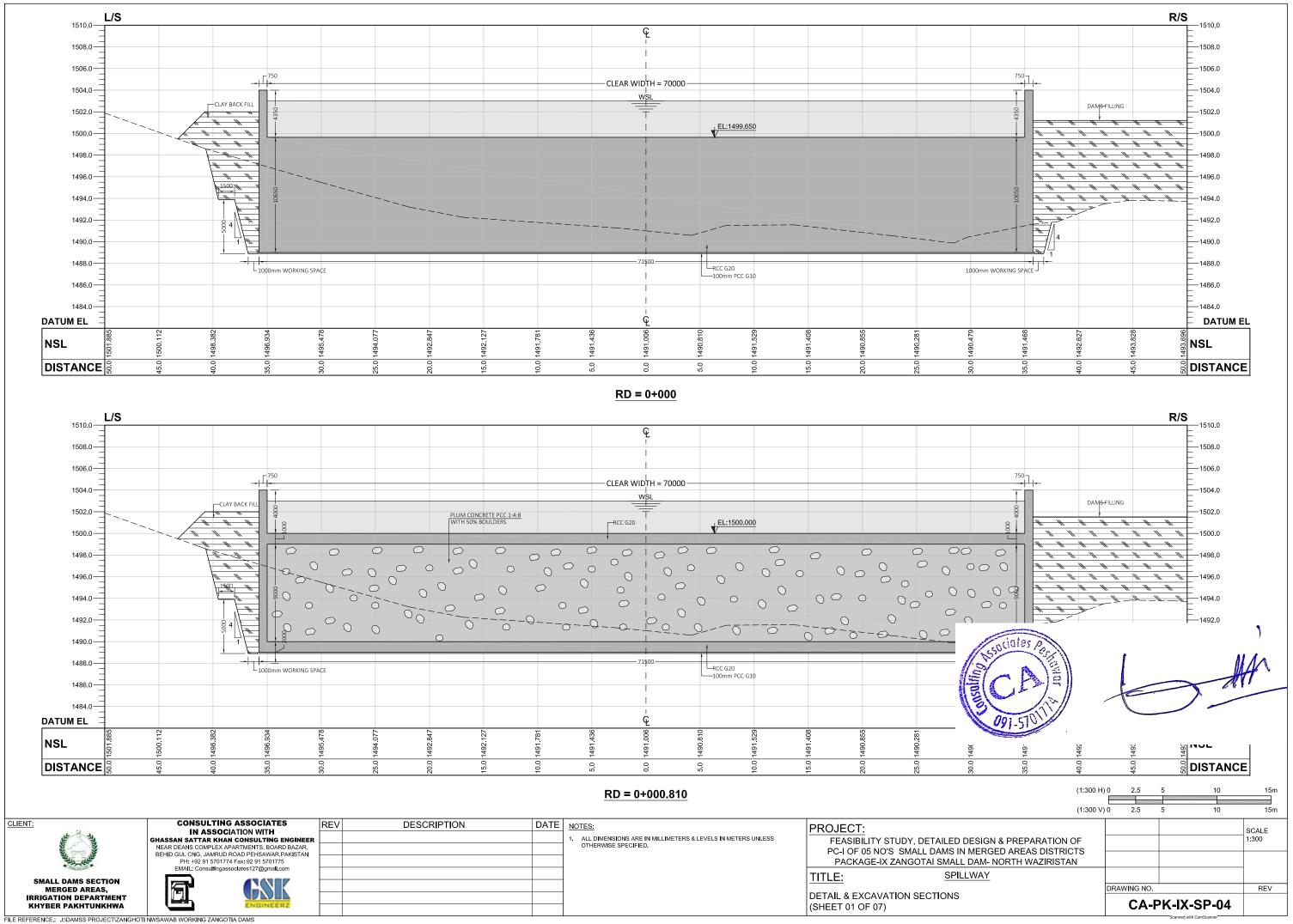
ILE REFERENCE. F:\ZANGOTI DAM PROJECT\FIN	AL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\04-SPILLWAY	'\02 SPIL	LWAY DETAIL PROFILE DWG

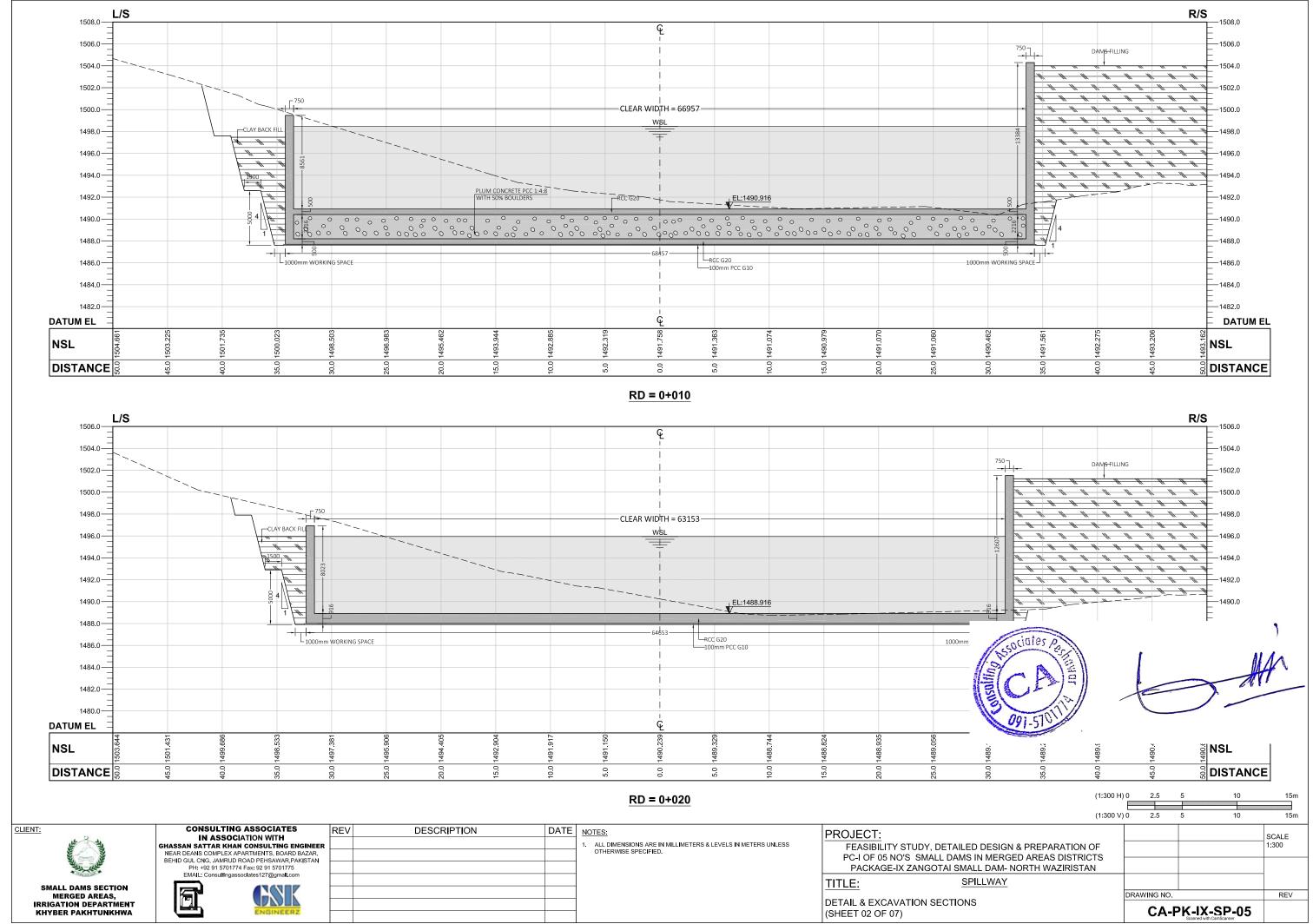
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	Scanned with CamScanner
6754	00 EL:1481.100 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 EL:1480.000 E
(1:200 H (1:200 V	
DESIGN & PREPARATION OF N MERGED AREAS DISTRICTS - DAM - NORTH WAZIRISTAN -LWAY	SCALE 1:200
	DRAWING NO. REV CA-PK-IX-SP-02 01

SPILLWAY DETAIL PROFILE (SHEET 01 OF 01)

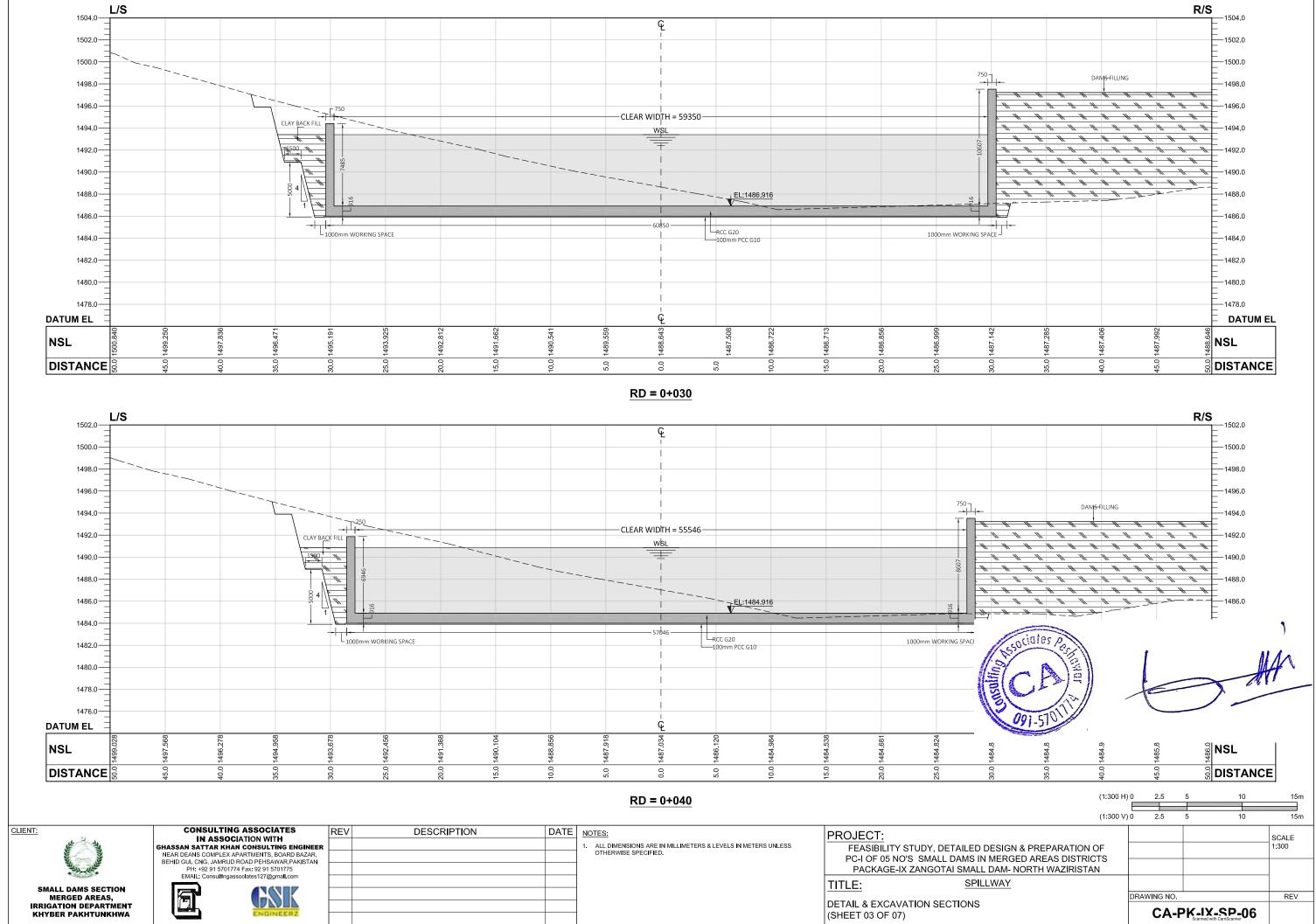


SSOCIATES Pactures	, HA
Ø20@300c/c D@300c/c	Scanned with CamScanner
(1:200 H) (1:200 V)	
DESIGN & PREPARATION OF MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN)	SCALE 1:200
<u>LWAY</u> ILS	DRAWING NO. REV CA-PK-IX-SP-03 01

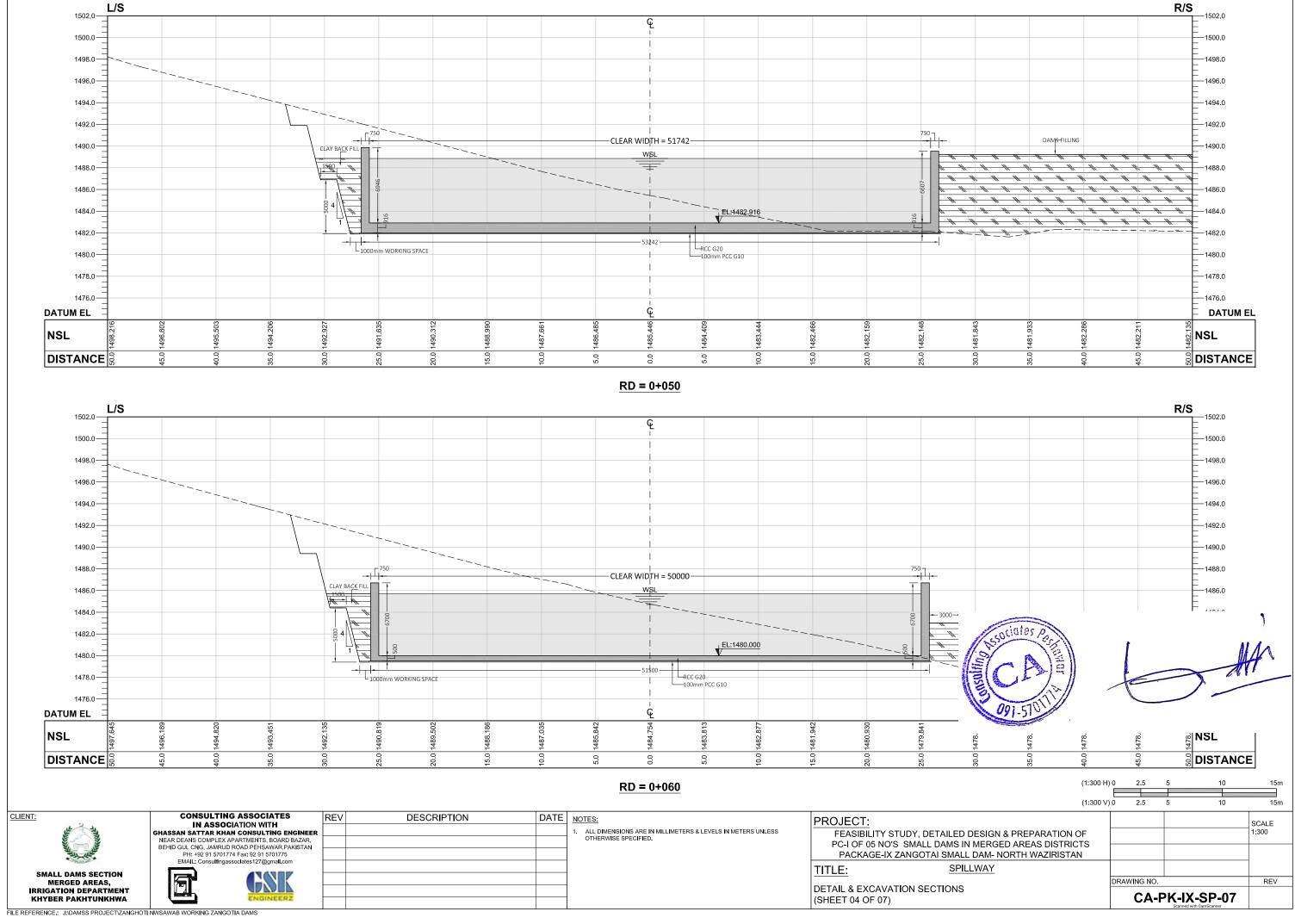


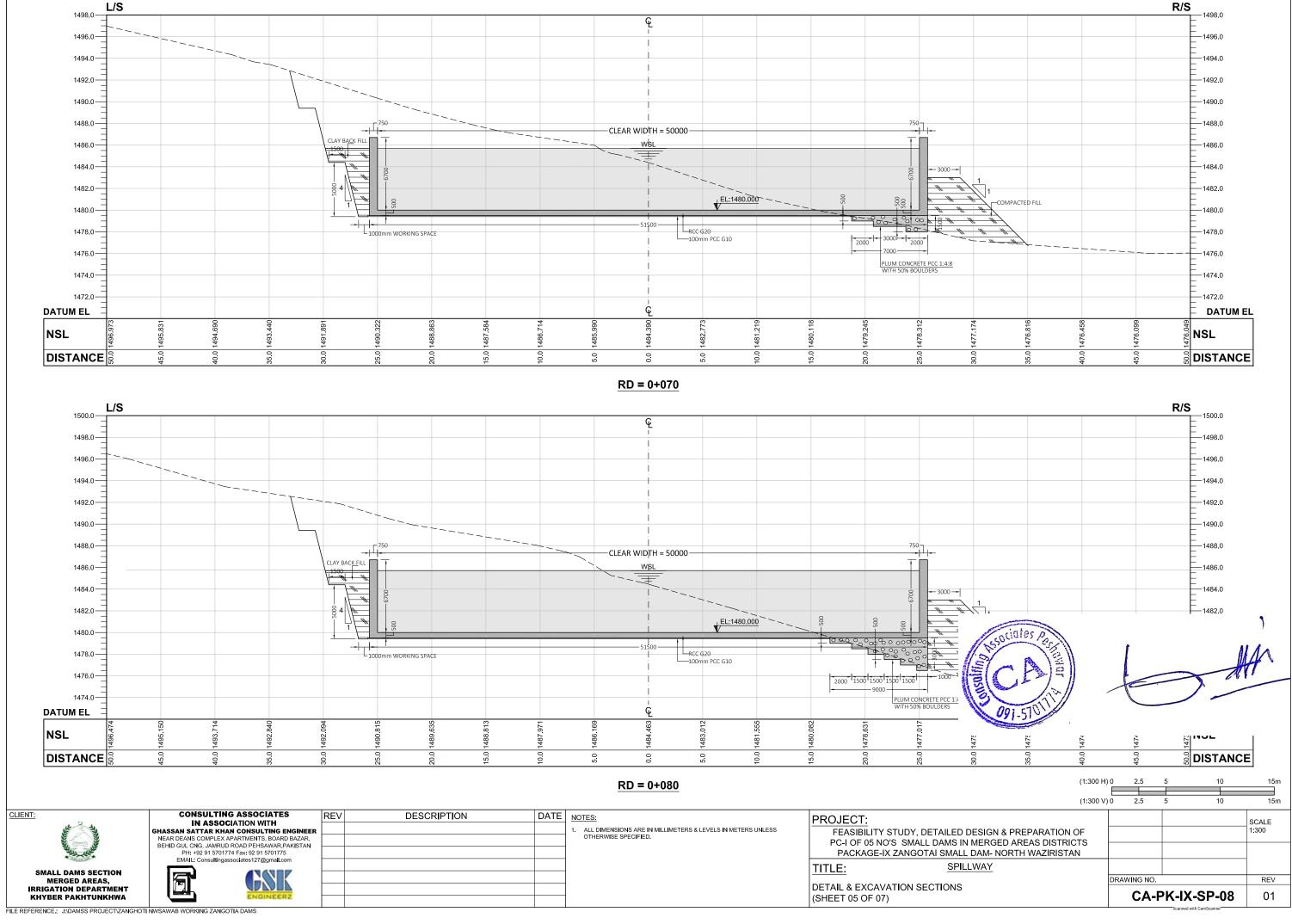


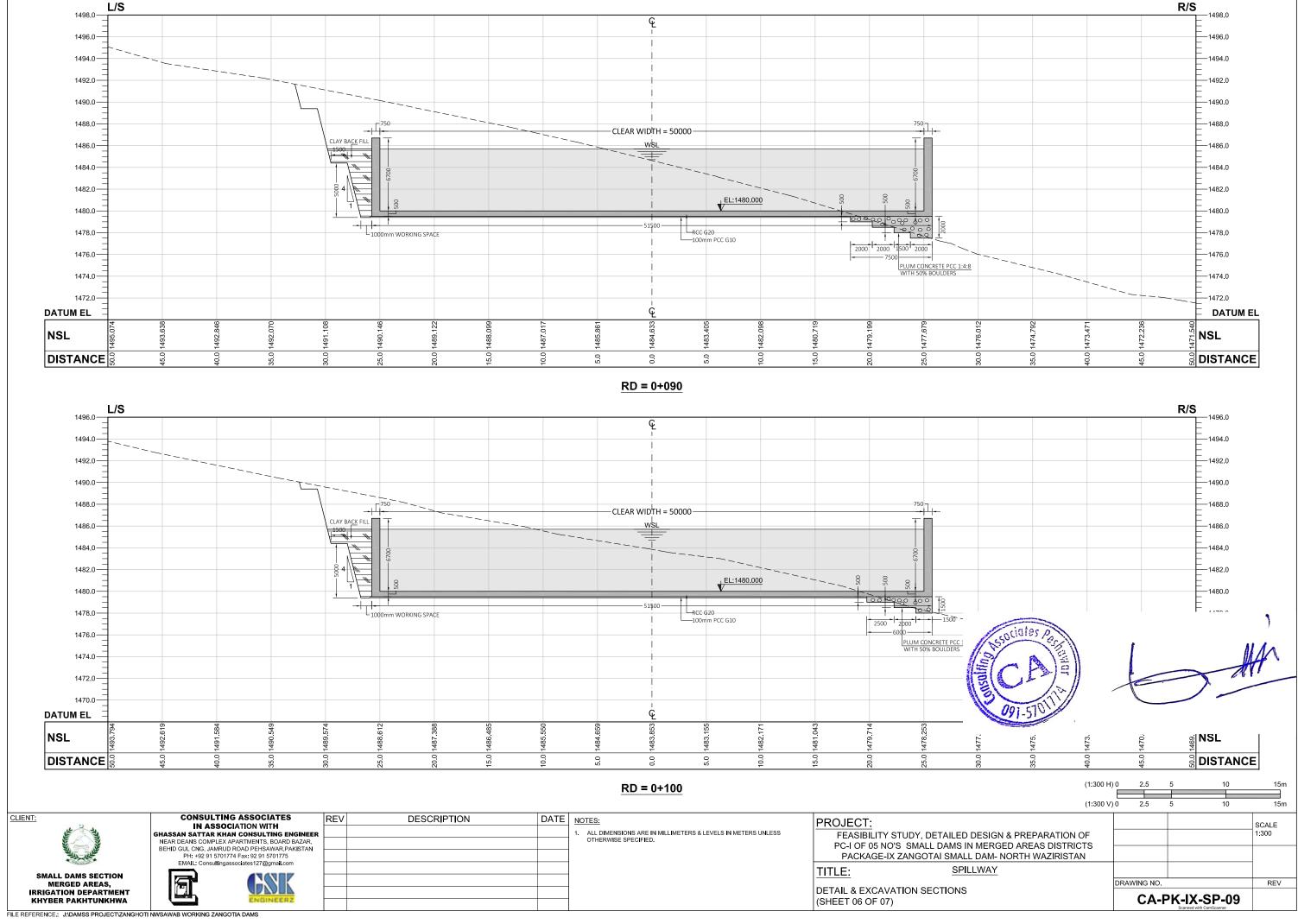
FILE REFERENCE.: J:\DAMSS PROJECT\ZANGHOTI NWSAWAB WORKING ZANGOTIA DAMS

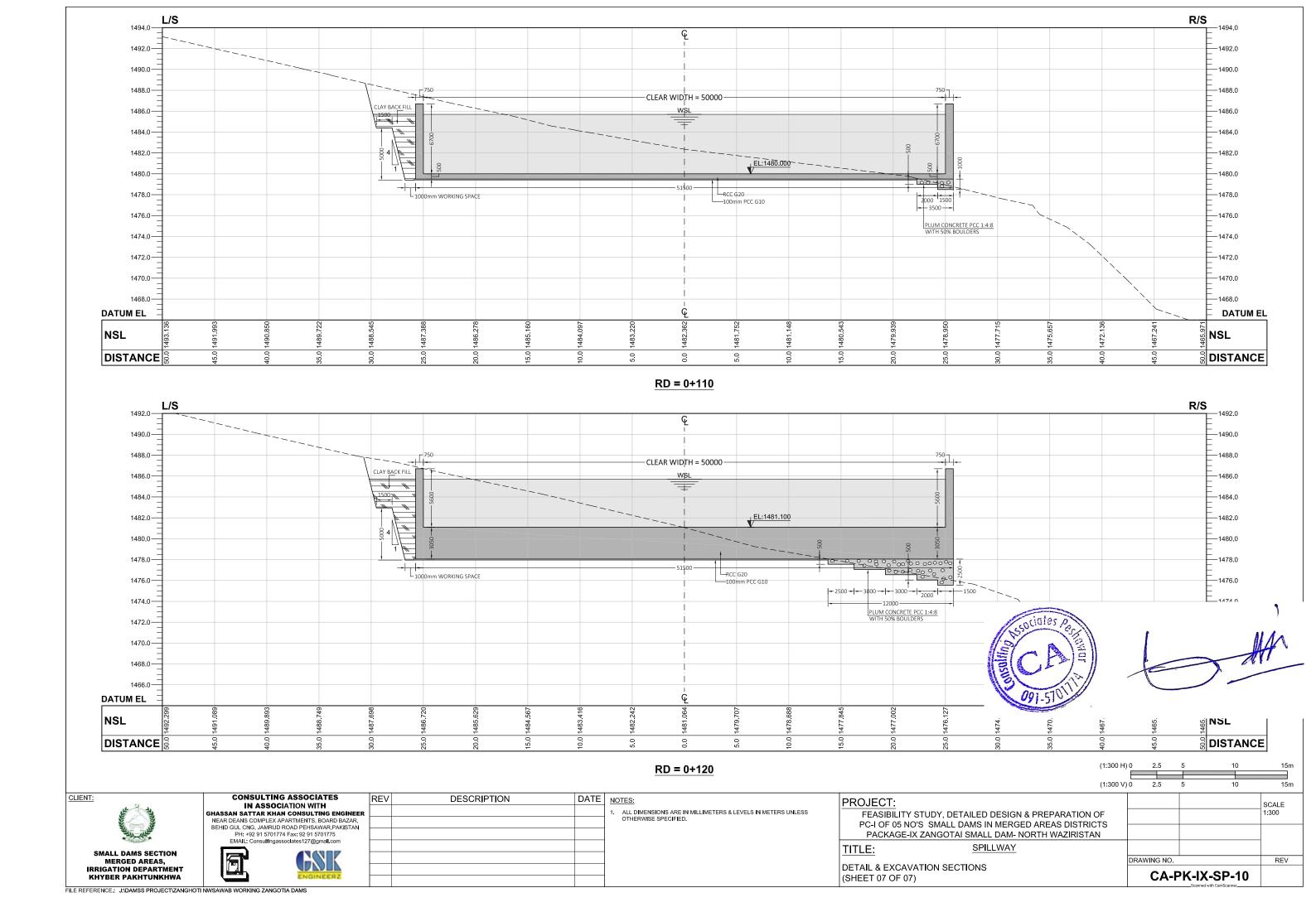


FILE REFERENCE .: J:\DAMSS PROJECT\ZANGHOTI NWS/ WAB WORKING ZANGOTIA DAMS

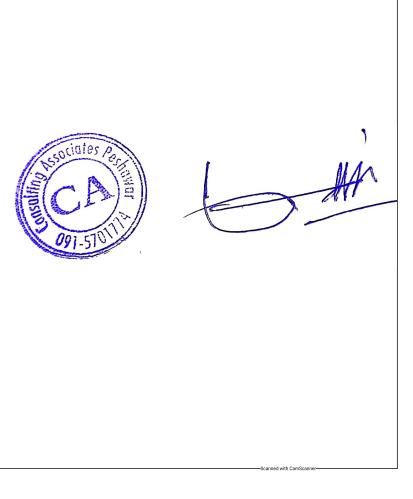


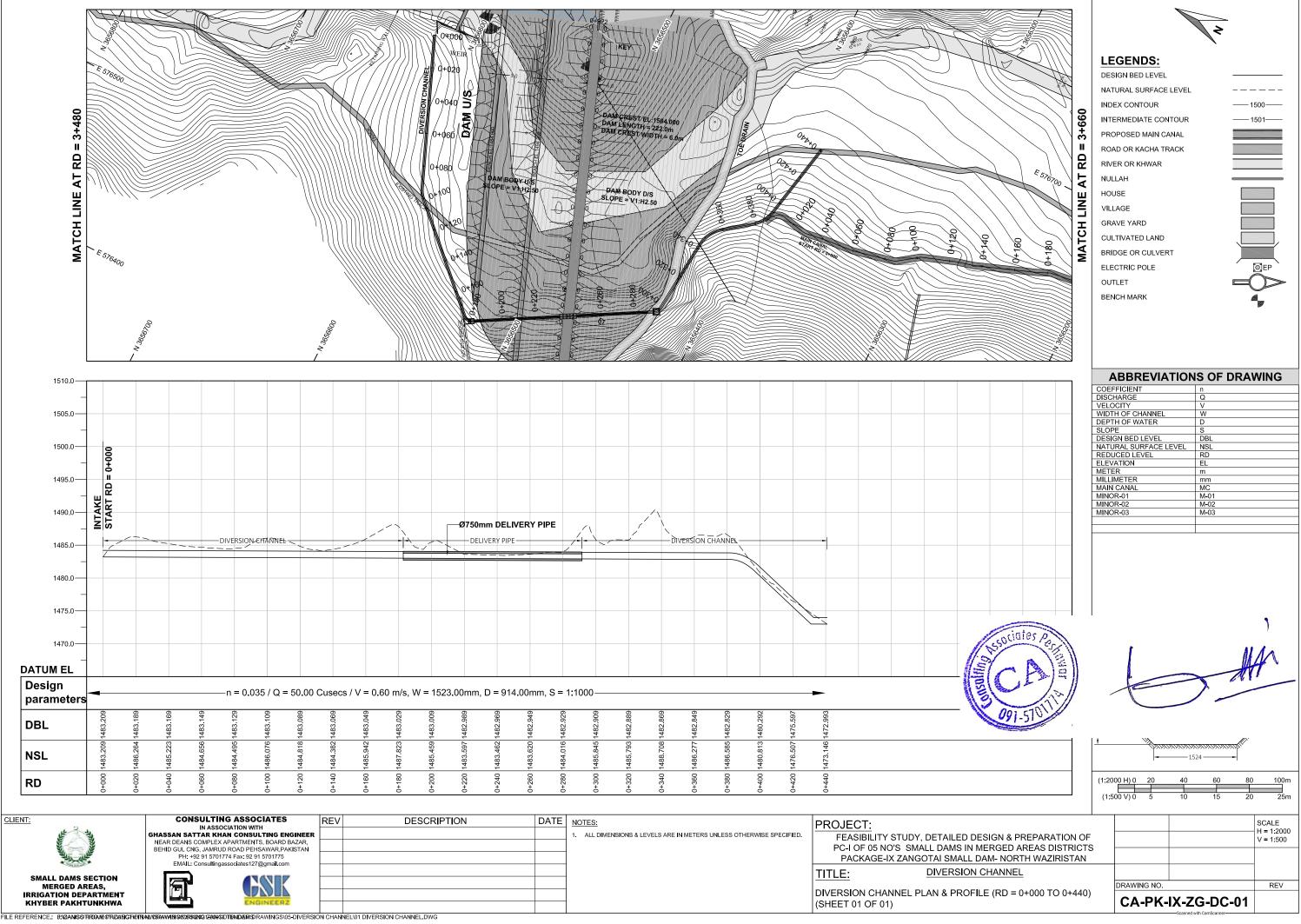






# **DC-DIVERSION CHANNEL**

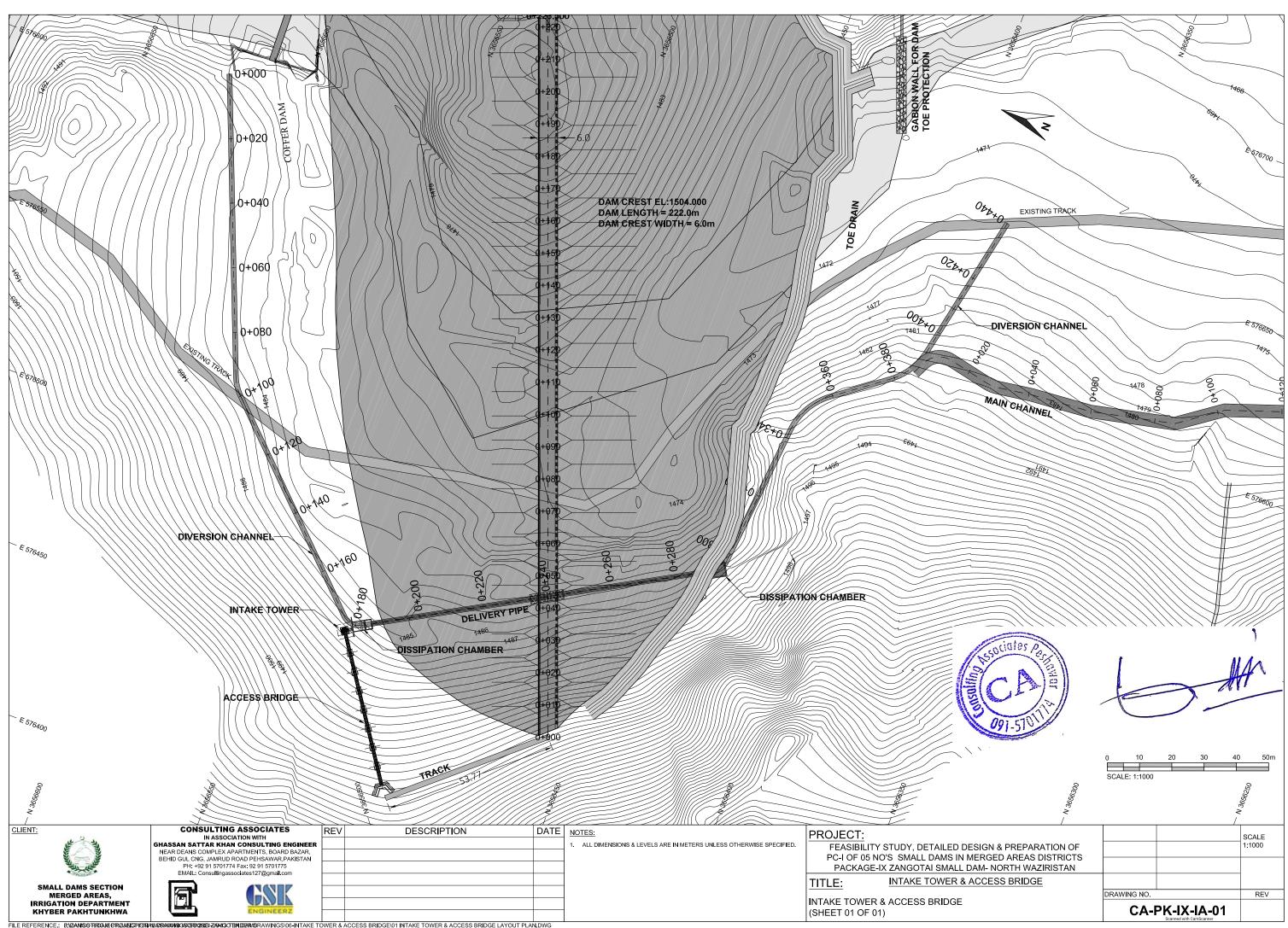




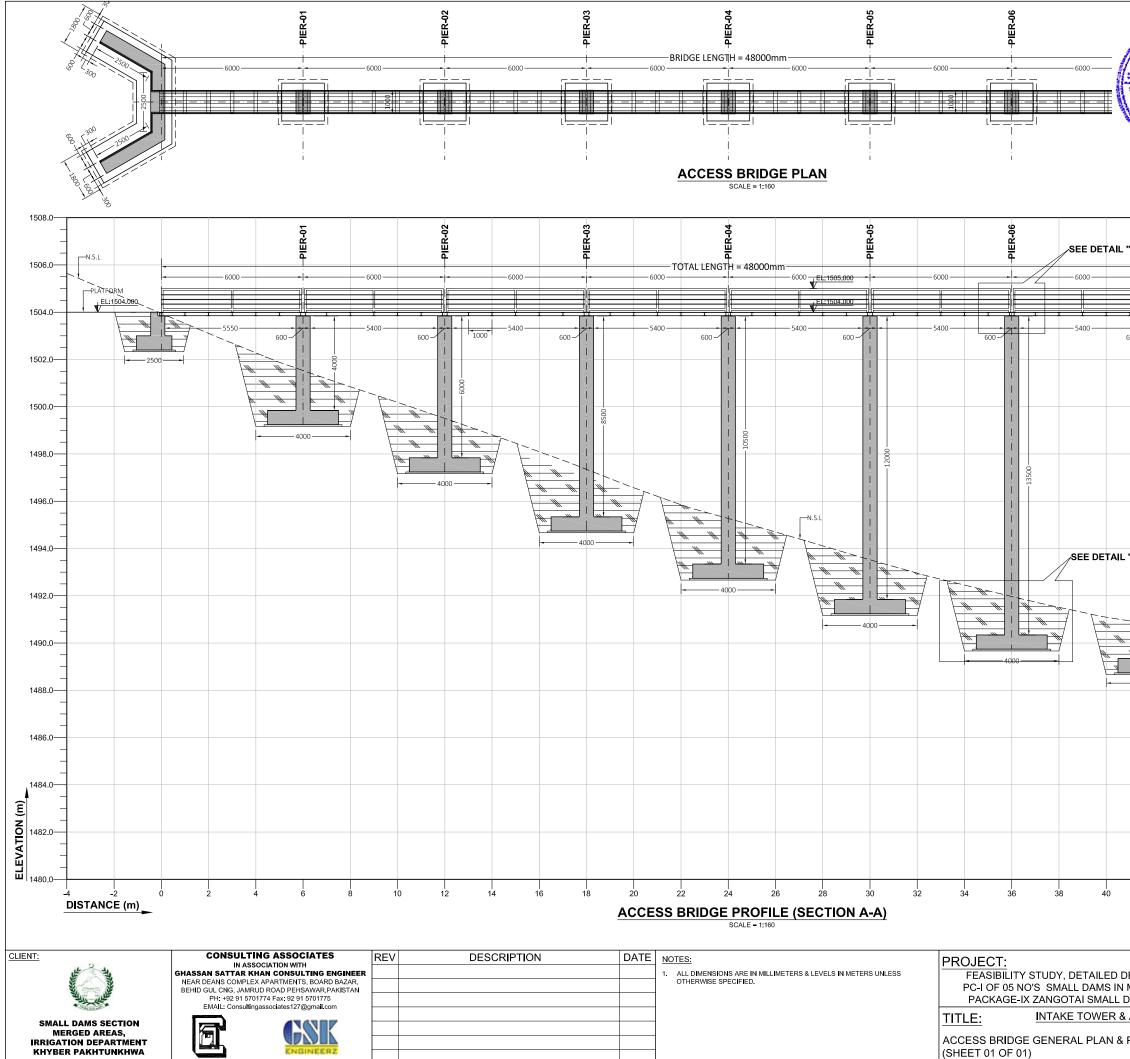
## **IA-INTAKE TOWER & ACCESS BRIDGE**





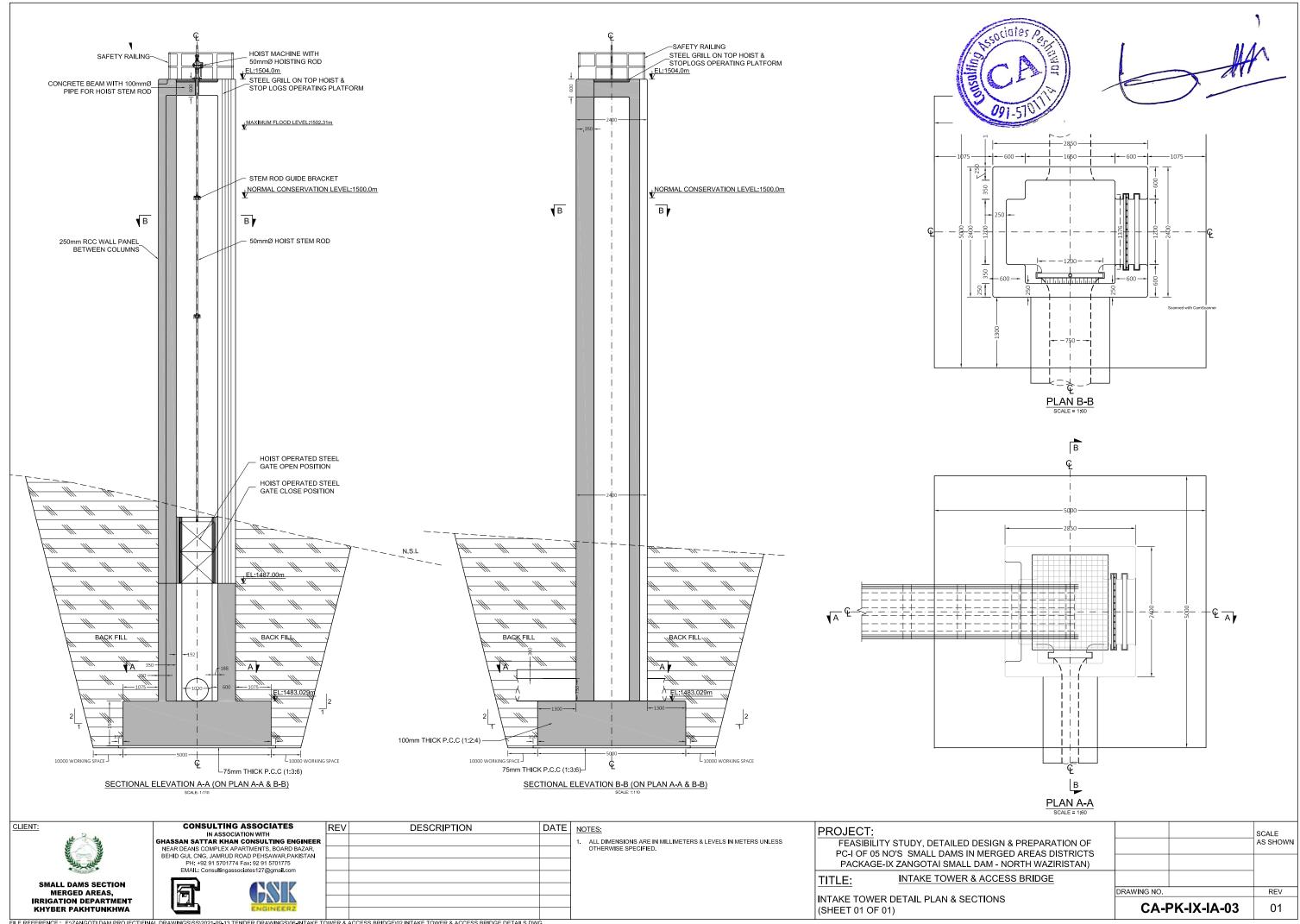


FILE REFERENCE: BUZANISO THROUGH CROADLIGHED SUSPERING JOINING THIND STORE AND AN INGS 106-INTAKE TOWER & ACCESS BRIDGE 101 INTAKE TOWER & ACCESS BRIDGE LAYOUT PLAN. DWG

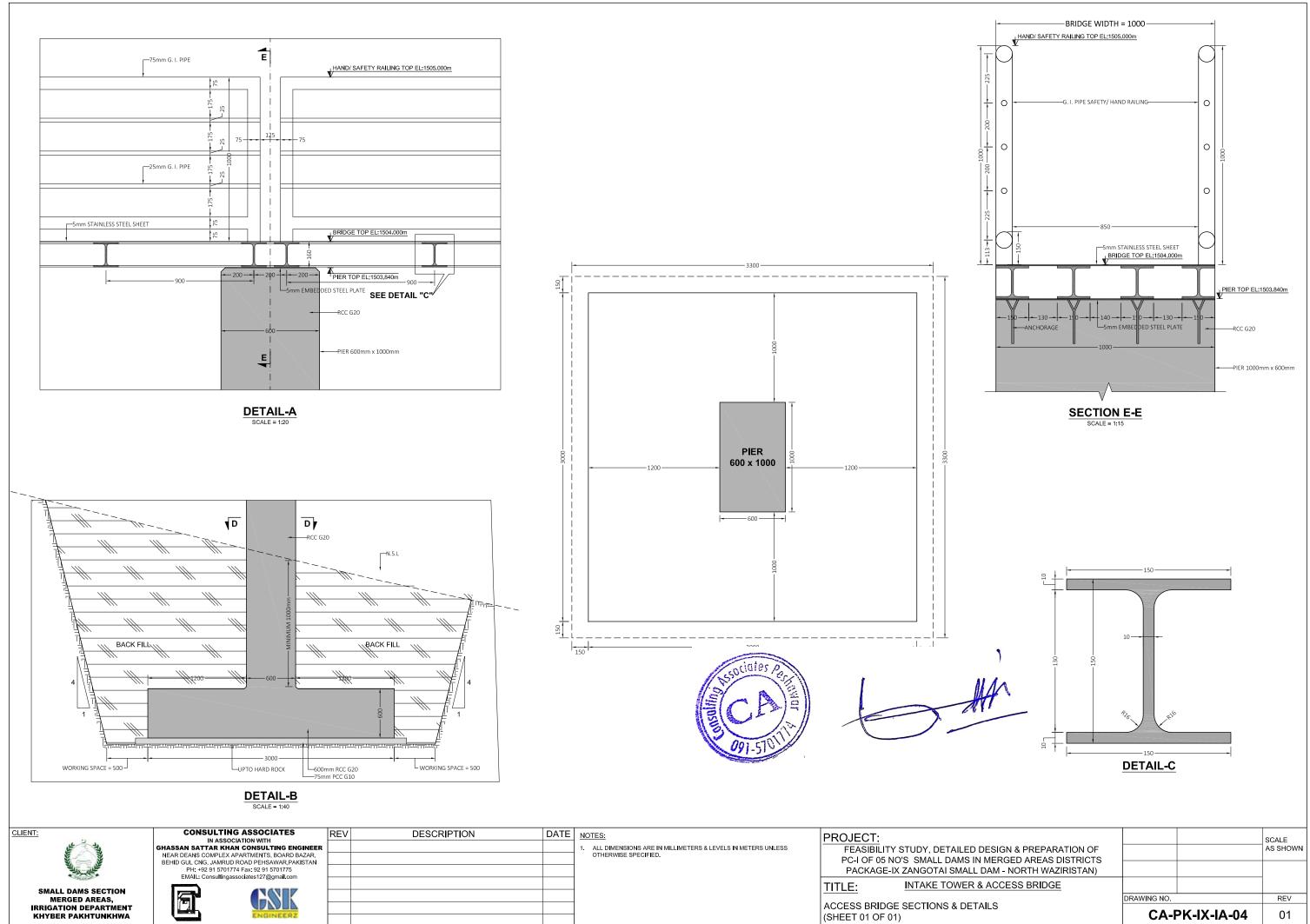


IIII FILE REFERENCE: F:IZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\06-INTAKE TOWER & ACCESS BRIDGE\02 INTAKE TOWER & ACCESS BRIDGE DETAILS.DWG

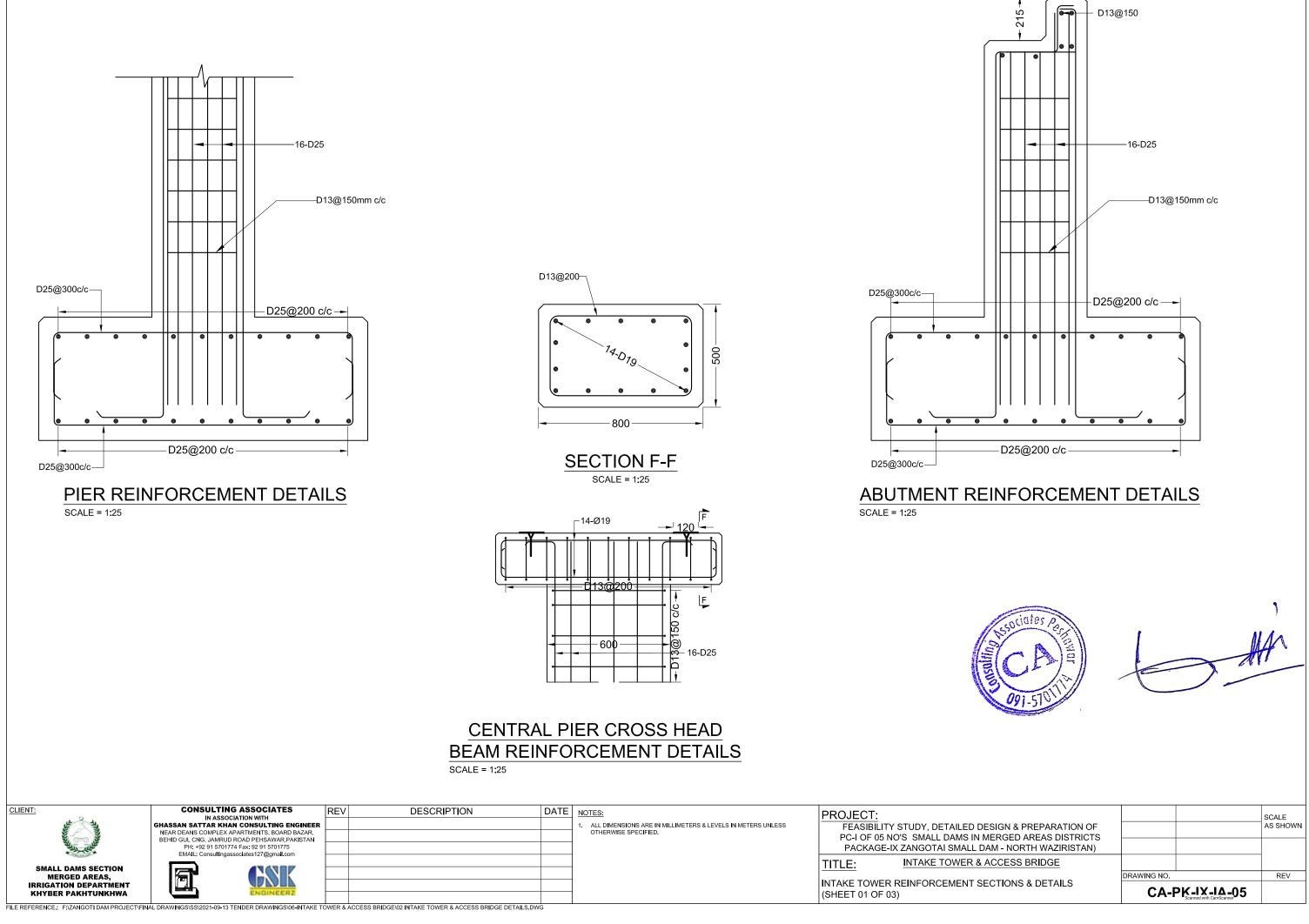
Associates Persitive		HA
- "A" - "A" - "A" 		
L "B"	DEAD STORAGE	
42 44 46	48 50 52 5	—1480.0 4
DESIGN & PREPARATION OF I MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN) & ACCESS BRIDGE		SCALE 1:160
PROFILE	DRAWING NO. CA-PK-IX-IA-02	REV 01

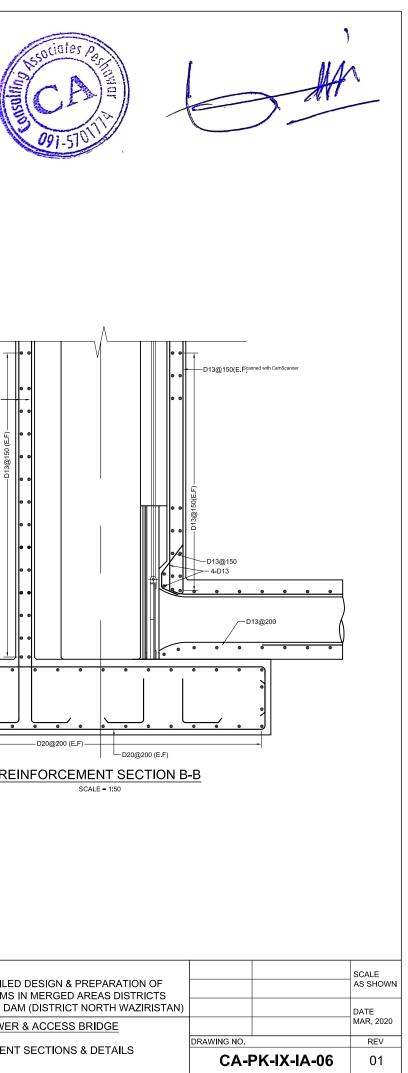


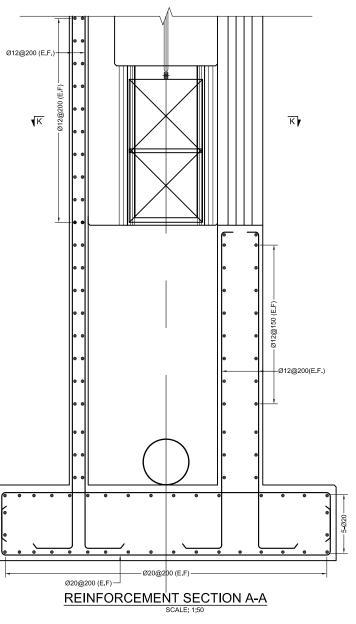
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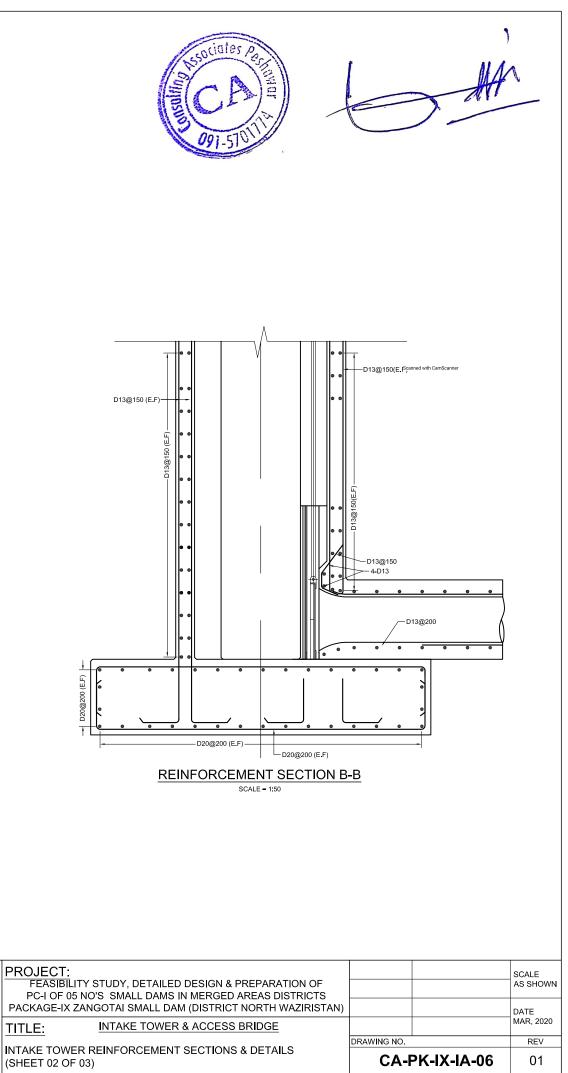


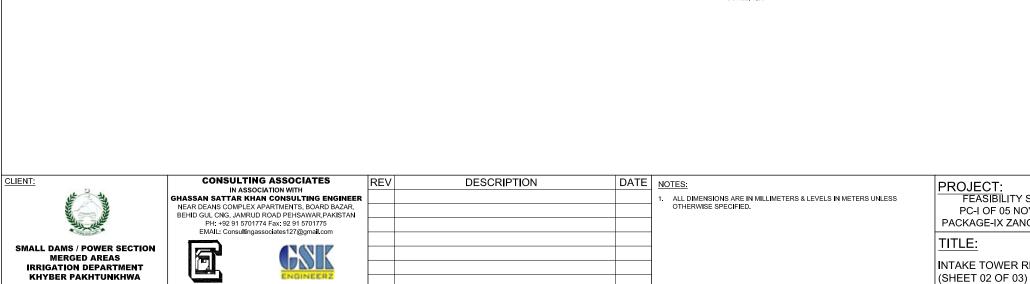
FILE REFERENCE.: F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/06-INTAKE TOWER & ACCESS BRIDGE/02 INTAKE TOWER & ACCESS BRIDGE DETAILS.DWG











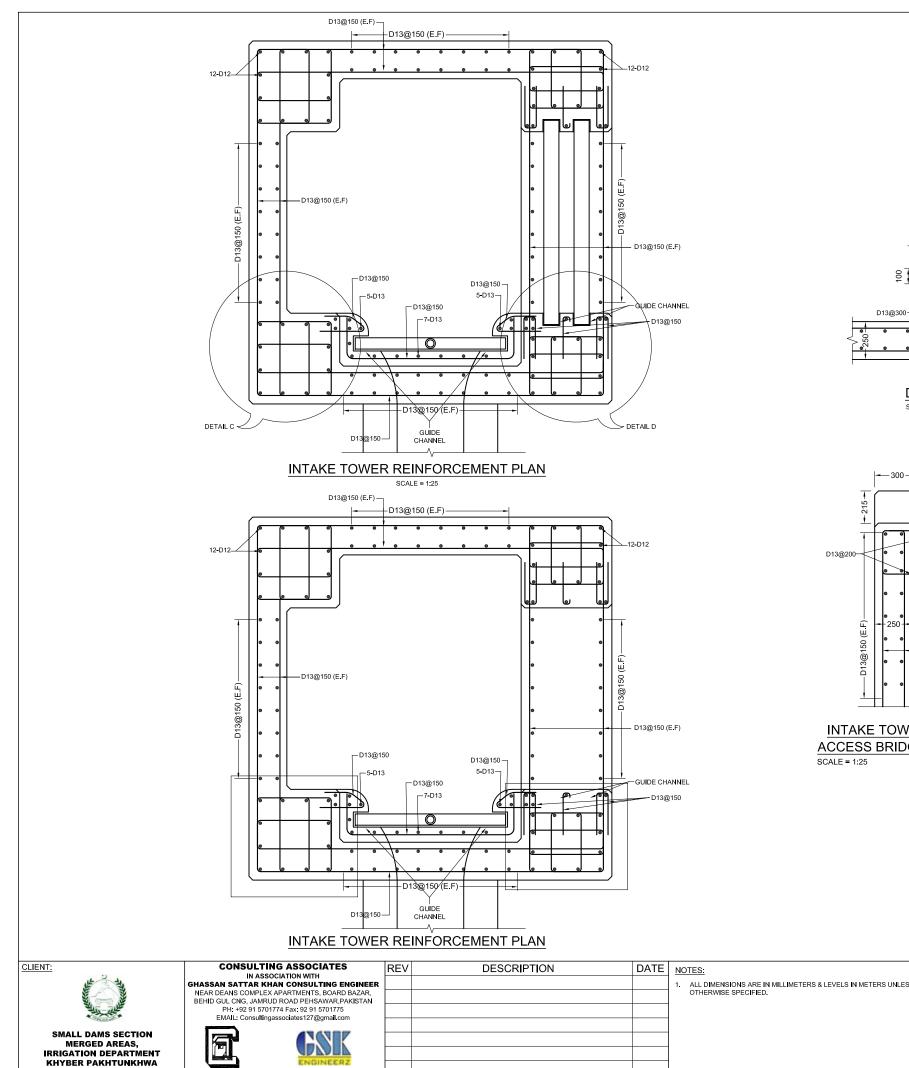
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INTAKE TOWER FOUNDATION REINFORCEMENT PLAN

SCALE = 1:50

-D20@200 (E.F)

لمم



-600 DETAIL-D SCALE = 1:25 

100

8

1400

-D13



INTAKE TOWER TOP BEAMS ACCESS BRIDGE SIDE DETAILS

-350

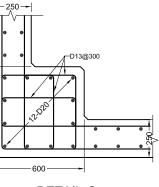
-D13@200 (E

	(SHEET 03 OF 03)	CA-PK-IX-IA-07	
	INTAKE TOWER REINFORCEMENT SECTIONS & DETAILS	DRAWING NO.	REV
	TITLE: INTAKE TOWER & ACCESS BRIDGE		
	PC-I OF 05 NO'S SMALL DAMS IN MERGED AREAS DISTRICTS PACKAGE-IX ZANGOTAI SMALL DAM - NORTH WAZIRISTAN)		
IONS ARE IN MILLIMETERS & LEVELS IN METERS UNLESS SPECIFIED.	PROJECT: FEASIBILITY STUDY, DETAILED DESIGN & PREPARATION OF		SCALE AS SHOWN

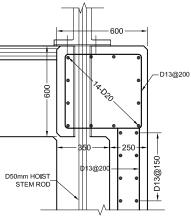
FILE REFERENCE. F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/06-INTAKE TOWER & ACCESS BRIDGE/02 INTAKE TOWER & ACCESS BRIDGE DETAILS.DWG







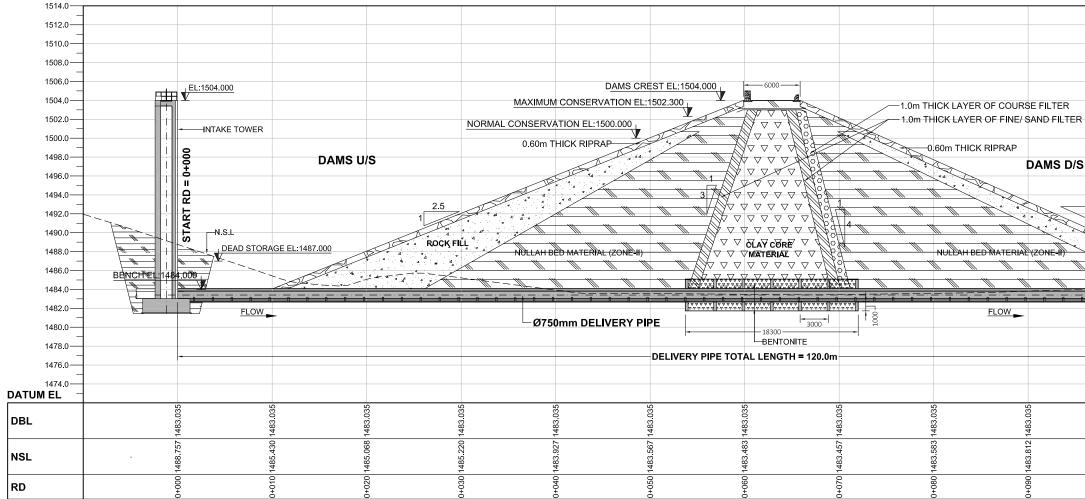
DETAIL-C SCALE = 1:25



#### INTAKE TOWER TOP BEAMS OUTLET PIPE SIDE DETAILS SCALE = 1:25

Scanned with CamScanner

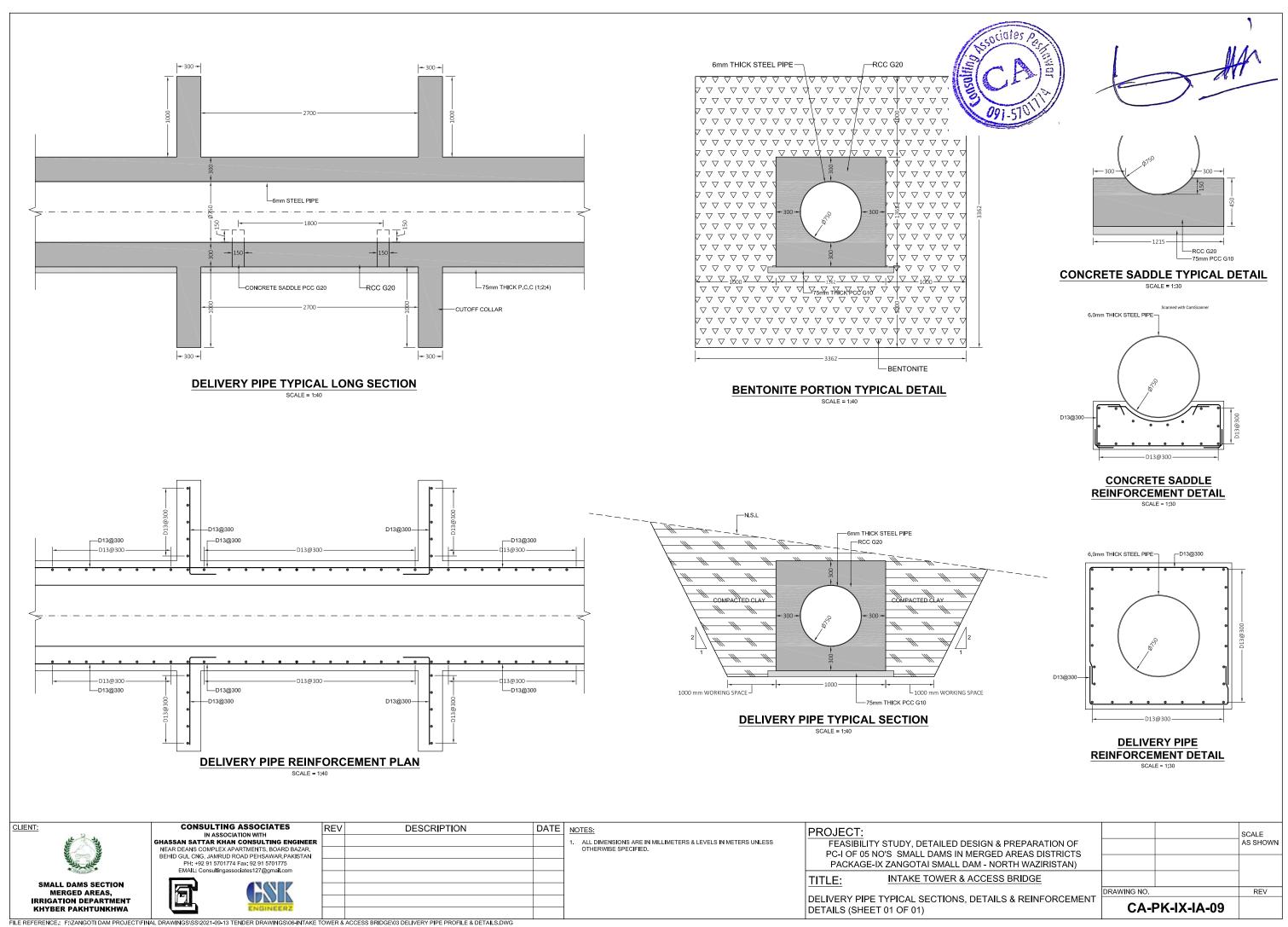




DELIVERY PIPE PROFILE

							(1:40	0 H) 0	6000 12	200 18	8000mm
							(1:40	0 V) 0	6000 12	2000 18	8000mm
CLIENT:	CONSULTING ASSOCIATES	REV	DESCRIPTION	DATE	NOTES:	PROJECT:					SCALE
NEA NEA	GHASSAN SATTAR KHAN CONSULTING ENGINEER NEAR DEANS COMPLEX APARTMENTS, BOARD BAZAR, BEHID GUL CNG, JAMRUD ROAD PEHSAWAR, PAKISTAN PH: +92 91 5701774 Fax: 92 91 5701775 EMAIL: Consultingassociates 127@gmail.com			1	1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS IN METERS UNLESS	FEASIBILITY STUDY, DETAILED DESIGN & PREPARATION O				H = 1:400 V = 1:400	
					OTHERWISE SPECIFIED.	PC-I OF 05 NO'S SMALL DAMS IN MERGED AREAS DISTRICTS PACKAGE-IX ZANGOTAI SMALL DAM - NORTH WAZIRISTAN)					1.100
											ļ
SMALL DAMS SECTION						TITLE:	INTAKE TOWER & ACCESS BRIDGE				Ĺ
MERGED AREAS, IRRIGATION DEPARTMENT KHYBER PAKHTUNKHWA									DRAWING NO.		REV
					<u> </u>		DELIVERY PIPE DETAIL PROFILE (SHEET 01 OF 01)		CA-PK-IX-IA-08		01
	NAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\06-INTAKE T										<u> </u>
FILE REFERENCE. F.ZANGOTI DAW FROJECTIFI	AL DRAWINGS/35/2021-05-13 TENDER DRAWINGS/00-INTAKE 1	OWER & ACC	ESS BRIDGE05 DELIVERT FIFE FROFILE & DETAILS.DWG								

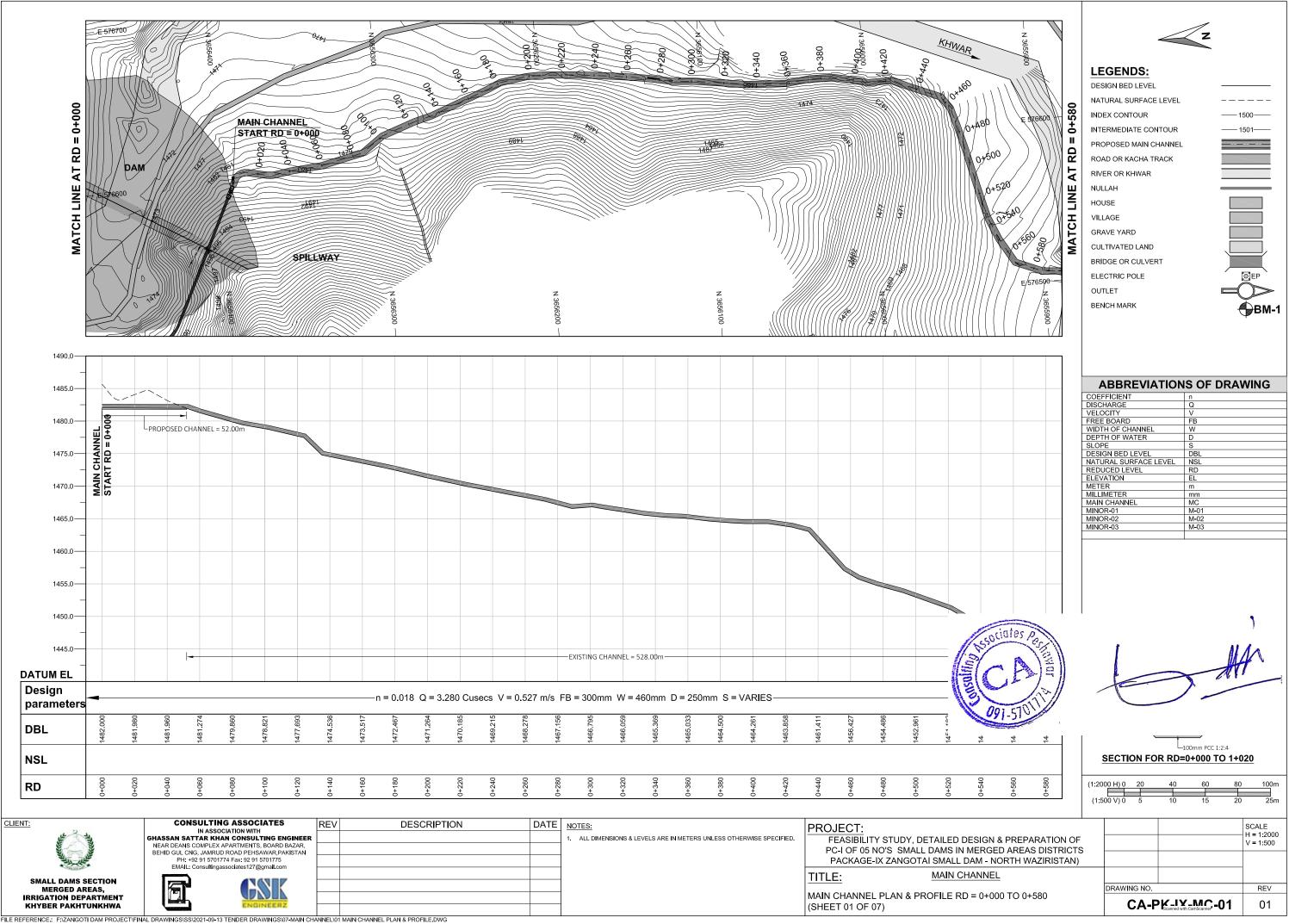
Associates Against	1 Att
3	Scanned with CamScanner
2.25	
0 1483.035 2 1483.035 2 1483.035	9 1483.035
0+100 1483.860 1483.035 0+110 1485.842 1483.035	0+120 1486.889 1483.02

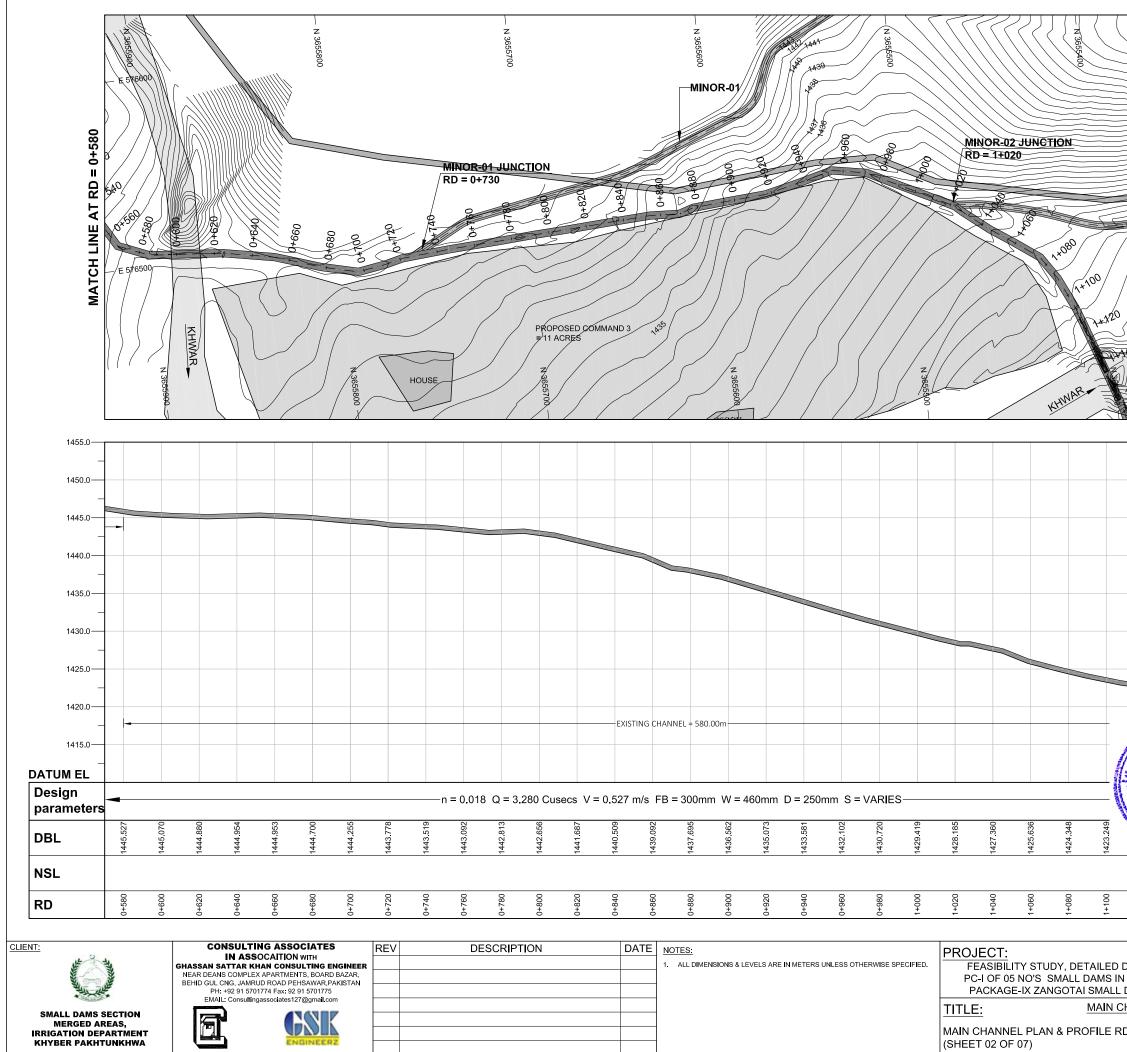




# **MC-MAIN CHANNEL**

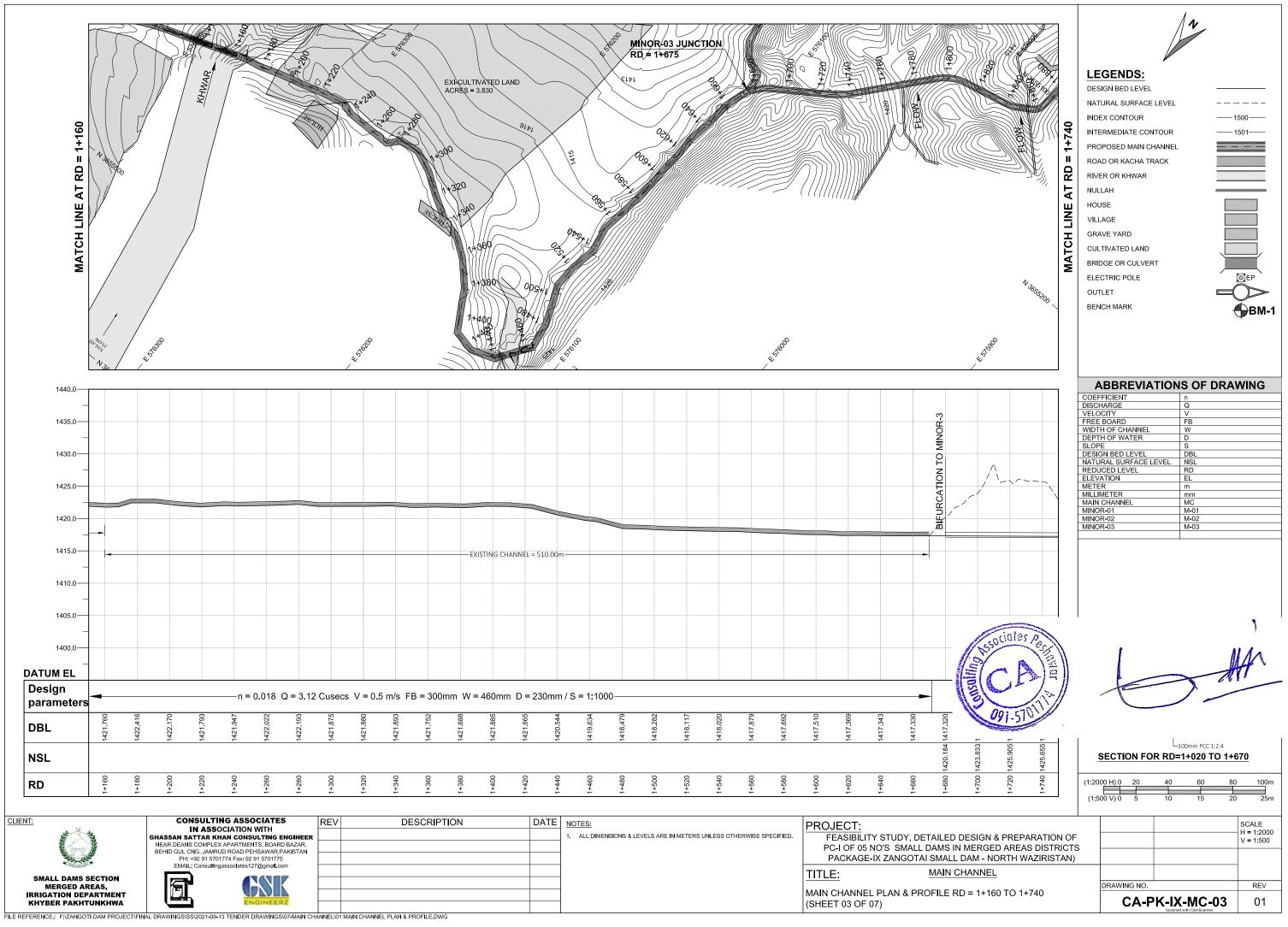


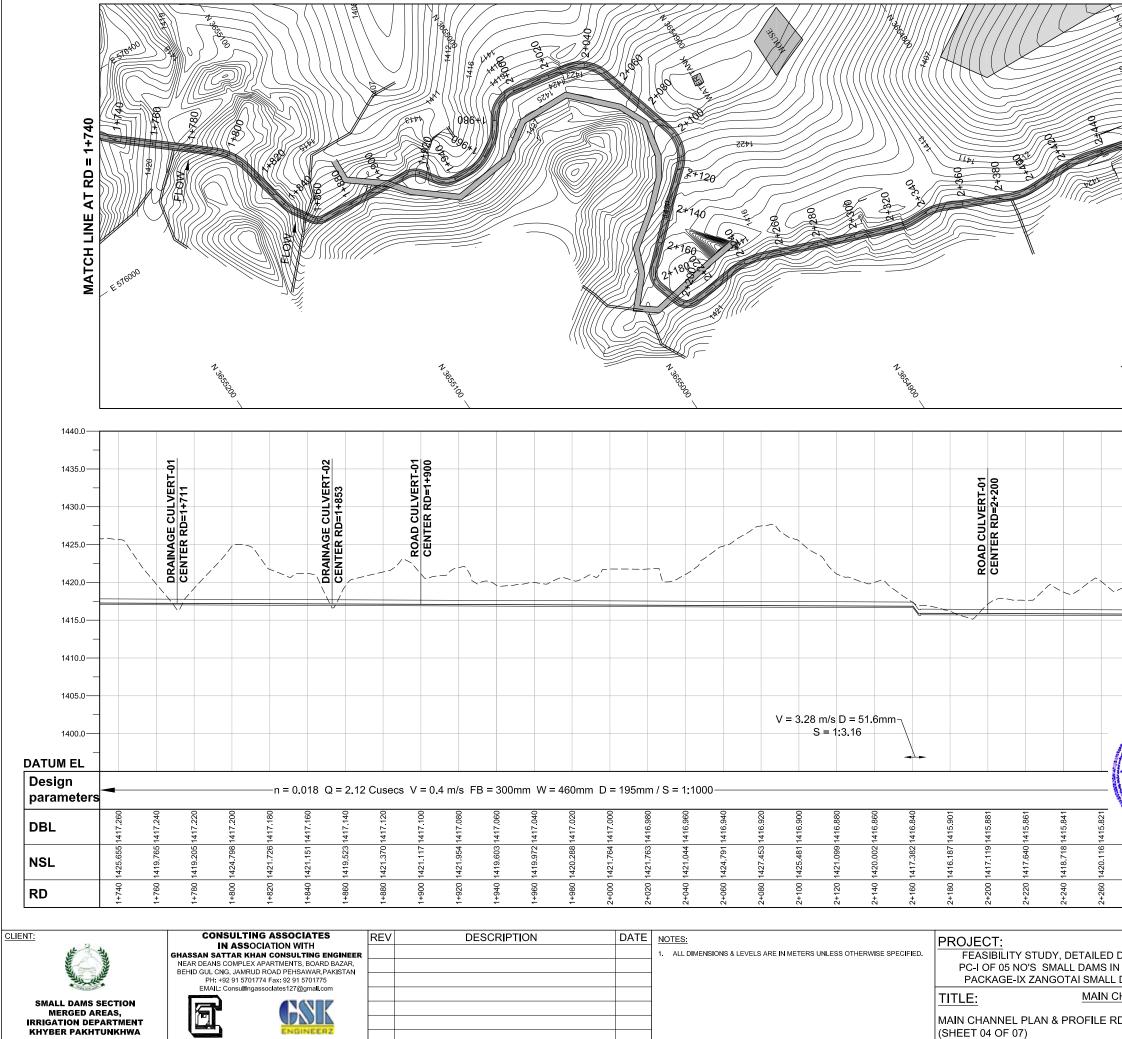




FILE REFERENCE : F: ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS/2021-09-13 TENDER DRAWINGS\07-MAIN CHANNEL\01 MAIN CHANNEL PLAN & PROFILE.DWG

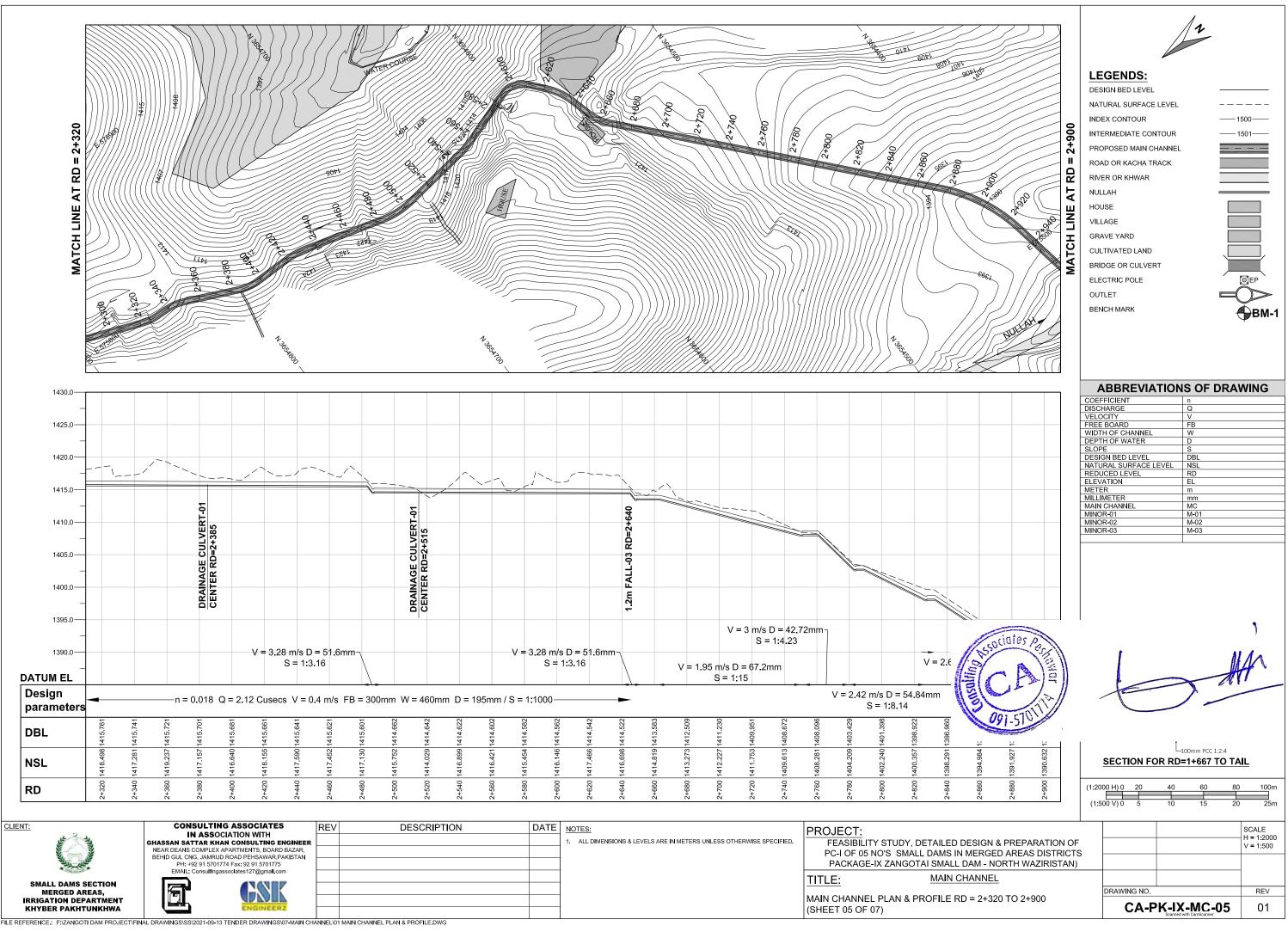
						]
<u></u>	MATCH LINE AT RD = 1+160	DES NAT INDI INTE PRO ROA RIVI NUL HOU VILL	GENDS: SIGN BED LEVEL FURAL SURFACE EX CONTOUR ERMEDIATE CON OPOSED MAIN CH AD OR KACHA TF ER OR KHWAR LAH JSE LAGE	LEVEL ITOUR HANNEL		- 1500
E 578400	MATO	BRII ELE OUT	LTIVATED LAND DGE OR CULVEF CTRIC POLE TLET ICH MARK	₹T		BM-1
		COEF			n	AWING
		VELC FREE WIDT DEPT SLOP DESIO NATU REDU ELEV METE MILLI	GN BED LEVEL JRAL SURFACE L JCED LEVEL ATION ER METER CHANNEL R-01 R-02	EVEL	Q V FB W D DBL NSL RD EL M MC M-01 M-02 M-03	
A A A A A A A A A A A A A A A A A A A			-		A	, HA
0 0 0		-	SECTION FO	R RD=		
1+120 1+140 1+160			00 H) 0 20	40		30 100m 20 25m
DESIGN & PREPARATION N MERGED AREAS DISTR . DAM - NORTH WAZIRIST CHANNEL	ICTS	\$				SCALE H = 1:2000 V = 1:500
RD = 0+580 TO 1+160			DRAWING NO.		-MC-02	REV 01

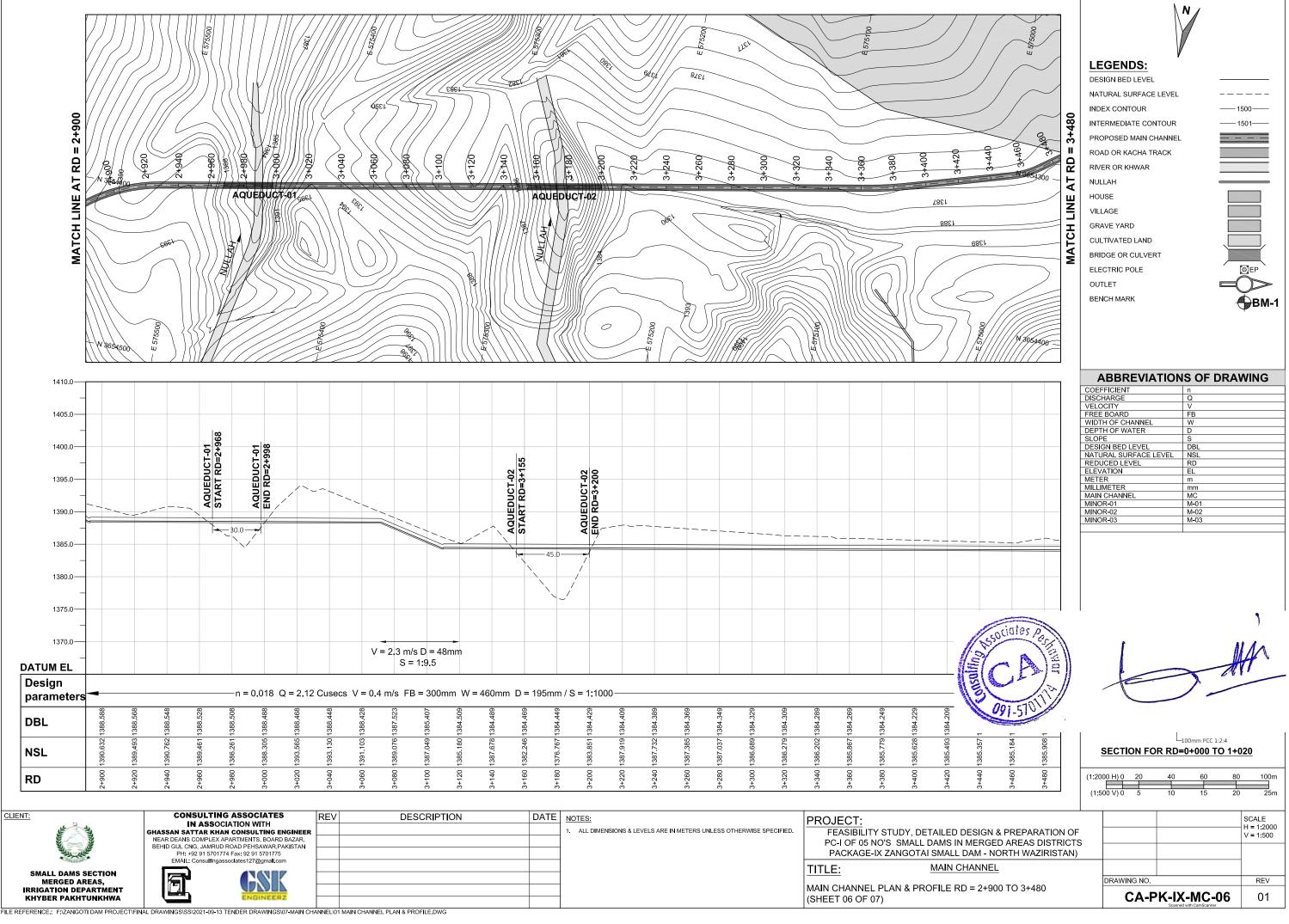




FILE REFERENCE : F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/07-MAIN CHANNEL/01 MAIN CHANNEL PLAN & PROFILE.DWG

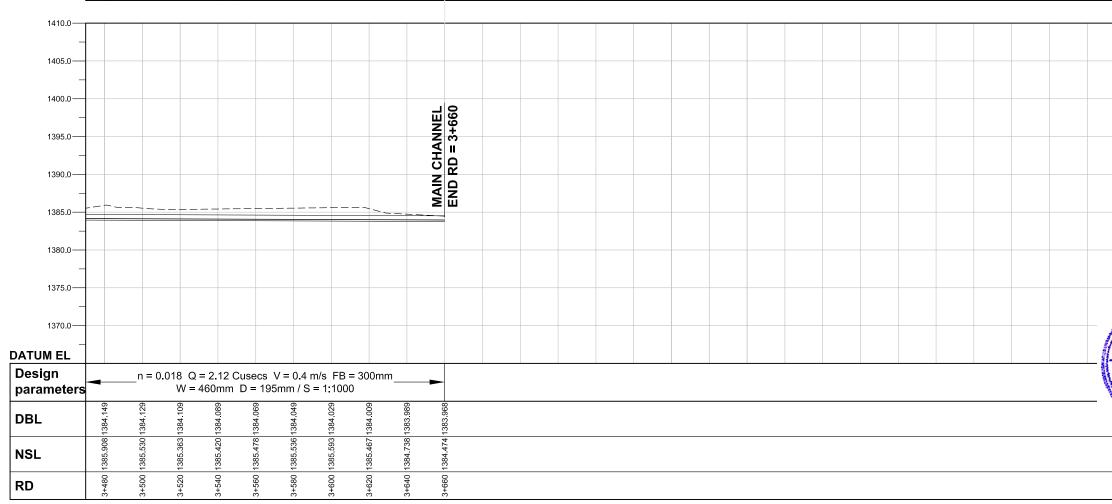
A second and a sec	MATCH LINE AT RD = 2+320	LEGENDS: DESIGN BED LEVEL NATURAL SURFACE LEVEL INDEX CONTOUR INTERMEDIATE CONTOUR PROPOSED MAIN CHANNEL ROAD OR KACHA TRACK RIVER OR KHWAR NULLAH HOUSE VILLAGE GRAVE YARD CULTIVATED LAND BRIDGE OR CULVERT ELECTRIC POLE OUTLET BENCH MARK		500 501 501 EP BM-1
		ABBREVIATION	IS OF DRAN	WING
19.202 19.448 19.448 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.420 19.4200 19.4200 19.4200 19.4000 19.4000 19.4000 19.4000 19.4000 19.4000 19.4000 19.4000 19.4000 19.4000 19.4000 19.40000 19.4000000000000000000000000000000000000		SECTION FOR RD	100mm PCC 1:2:4 =1+667 TO TA	
2+300 1419.448 2+320 1419.448 2+320 1418.498				100m 25m
DESIGN & PREPARATION MERGED AREAS DISTR DAM - NORTH WAZIRIST	ICTS	SECTION FOR RD           (1:2000 H) 0         20         40           (1:500 V) 0         5         10	<b>=1+667 TO TA</b> 60 80	
DESIGN & PREPARATION MERGED AREAS DISTR	ICTS	SECTION FOR RD           (1:2000 H) 0         20         40           (1:500 V) 0         5         10	<b>=1+667 TO TA</b> 60 80	100m 25m SCALE H = 1:2000

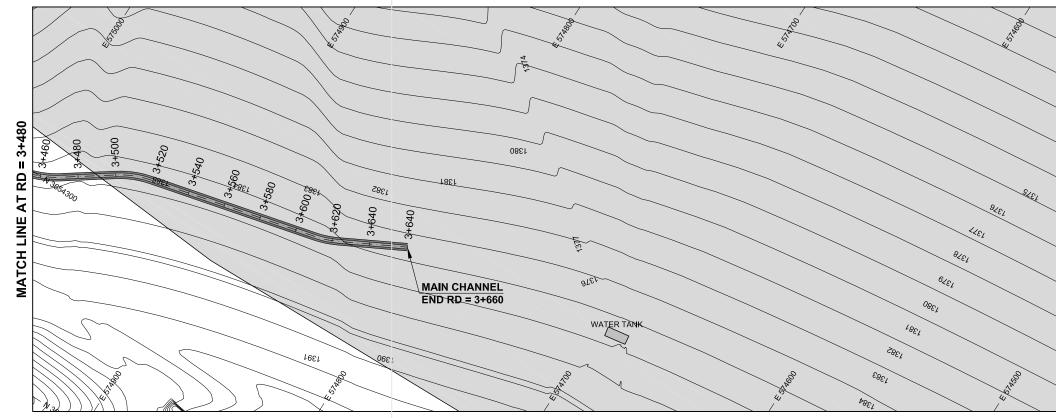




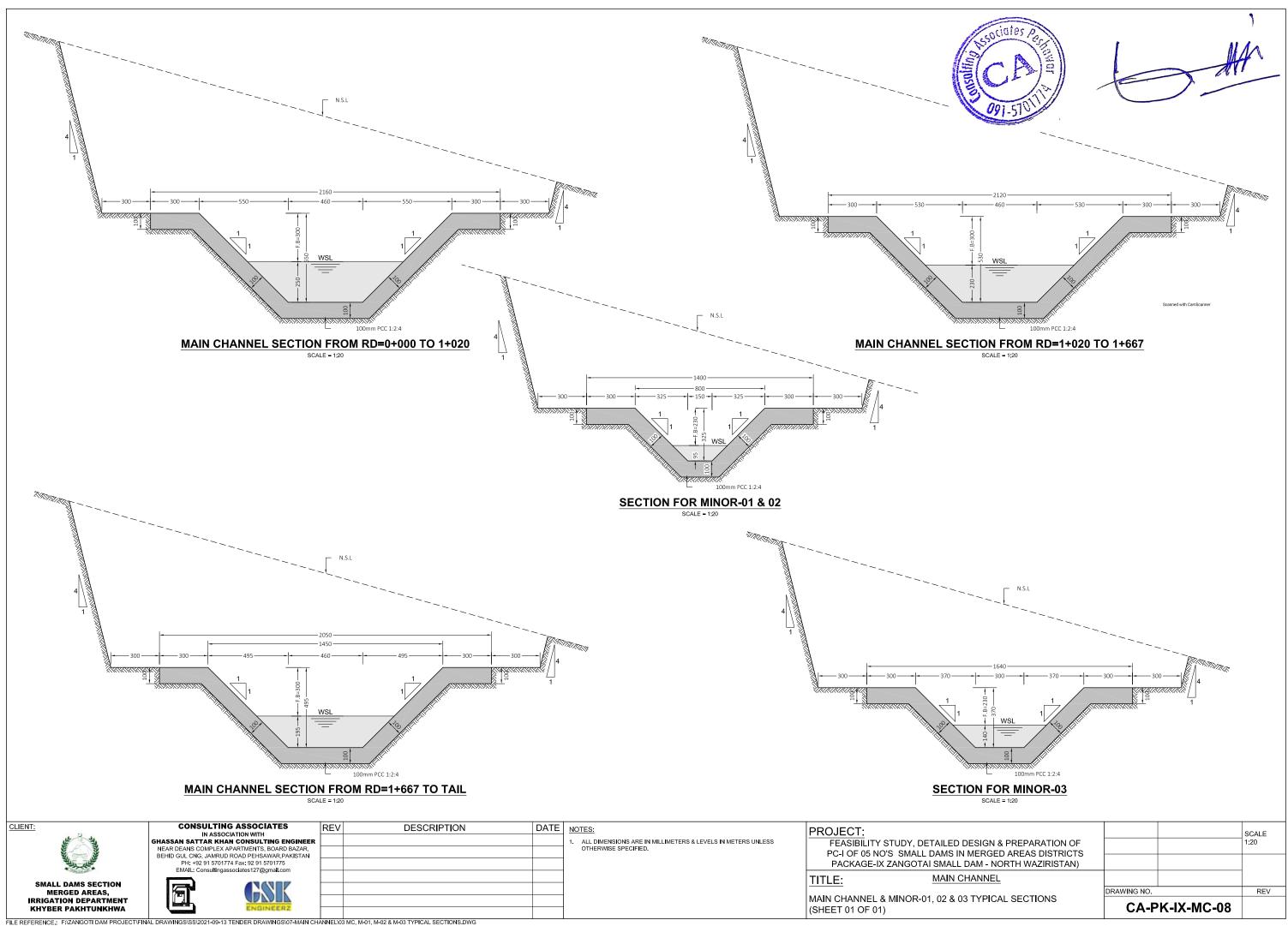
FILE REFERENCE. F:\ZANGOTI DAM PROJECT\FINA	AL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\07-MAIN CHA	NNEL\0	1 MAIN CHANNEL PLAN & PROFILE DWG

ĺ	CLIENT:	CONSULTING ASSOCIATES	REV	DESCRIPTION DAT	E	NOTES:	PROJECT:
	the second	IN ASSOCIATION WITH GHASSAN SATTAR KHAN CONSULTING ENGINEER				1. ALL DIMENSIONS & LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.	FEASIBILITY STUDY, DETAILED I
		NEAR DEANS COMPLEX APARTMENTS, BOARD BAZAR, BEHID GUL CNG, JAMRUD ROAD PEHSAWAR,PAKISTAN			_		PC-I OF 05 NO'S SMALL DAMS IN
	and the	PH: +92 91 5701774 Fax: 92 91 5701775 EMAIL: Consultingassociates127@gmail.com			_		PACKAGE-IX ZANGOTAI SMALL
	SMALL DAMS SECTION				_		TITLE: MAIN C
	MERGED AREAS, IRRIGATION DEPARTMENT				-		MAIN CHANNEL PLAN & PROFILE RI
	KHYBER PAKHTUNKHWA	ENGINEERZ					(SHEET 07 OF 07)



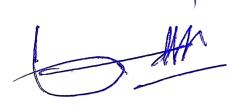


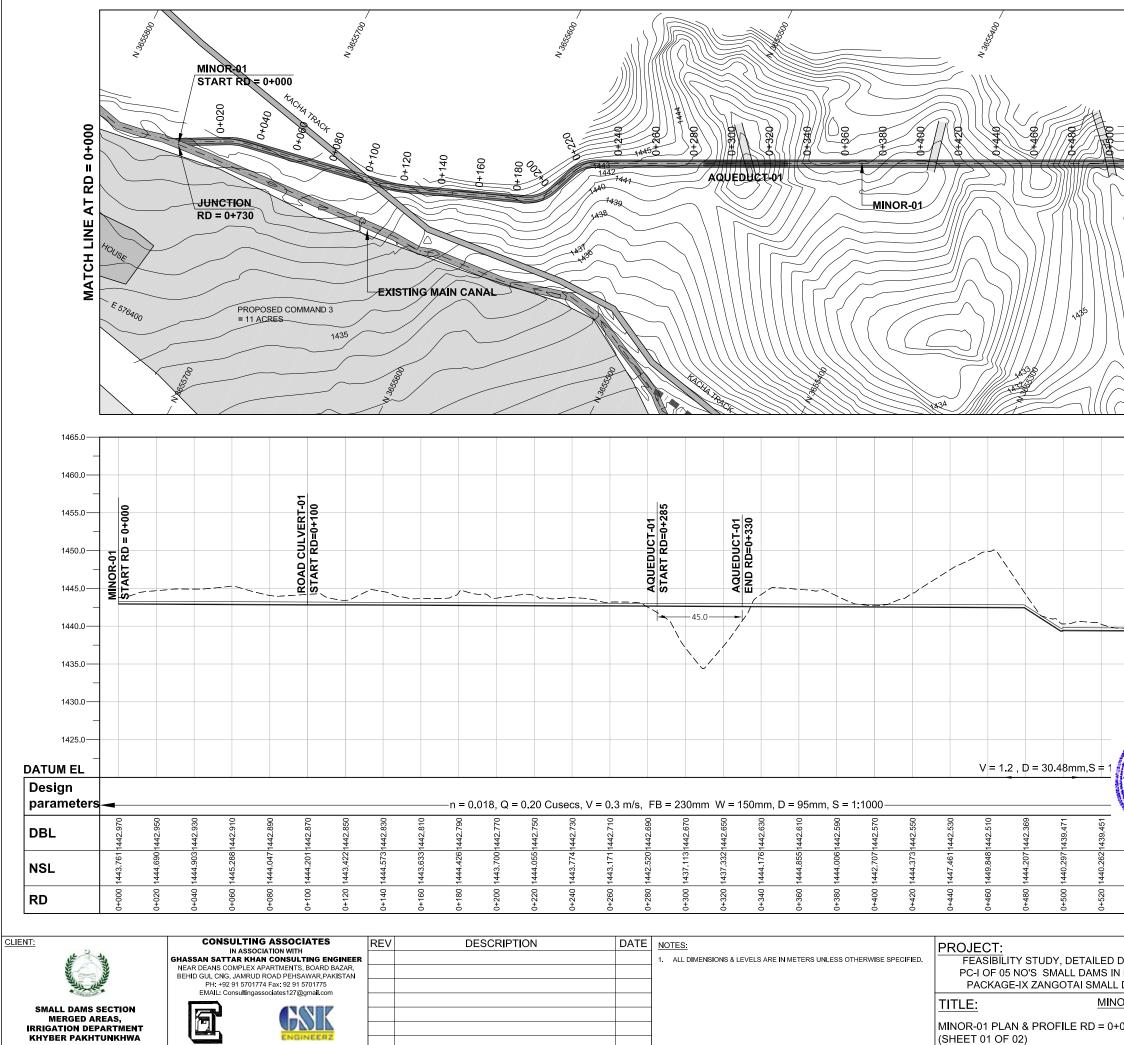
		1.	
		N N	
		LEGENDS:	
		DESIGN BED LEVEL	
OLE,		NATURAL SURFACE LEVEL	
4/81	0	INDEX CONTOUR	500
ZIEJ	3+660	INTERMEDIATE CONTOUR	1501——
	÷	PROPOSED MAIN CHANNEL	
ETET	П	ROAD OR KACHA TRACK	
	RD	RIVER OR KHWAR	·····
No.	F	NULLAH	
N 3654000	Ā	HOUSE	
	Z	VILLAGE	
	MATCH LINE	GRAVE YARD	
	СH		
	Ĕ		
	ž	BRIDGE OR CULVERT	
		ELECTRIC POLE	O]EP
		OUTLET 🛁	$\searrow$
		BENCH MARK	<b>ВМ-1</b>
			☞
		ABBREVIATIONS OF DRA	WING
		COEFFICIENT n DISCHARGE Q	
		VELOCITY V FREE BOARD FB	
		WIDTH OF CHANNEL W	
		DEPTH OF WATER D SLOPE S	
		DESIGN BED LEVEL DBL	
		REDUCED LEVEL RD	
		ELEVATION EL METER m	
		MILLIMETER mm MAIN CHANNEL MC	
		MINOR-01 M-01	
		MINOR-02 M-02 MINOR-03 M-03	
			•
inton of			)
sociates P	<u> </u>		
15 22	11		$\Lambda$
	1		¥1 `
EL 1	11		
	//		
001 570			
	1		
		L100mm PCC 1:2:4 SECTION FOR RD=1+667 TO TA	
		(1:200 <u>0 H) 0 20 40 60 80</u>	) <u>10</u> 0m
		(1:500 V) 0 5 10 15 20	
			2011
			SCALE
DESIGN & PREPARATION			H = 1:2000
N MERGED AREAS DISTR	ICTS		V = 1:500
DAM - NORTH WAZIRIST	AN)		1
HANNEL			
D = 3+480 TO 3+660		DRAWING NO.	REV
U - 3740U I U 3+00U		CA-PK-IX-MC-07	01
		Scanned with CamScanner	



# M1-MINOR-01

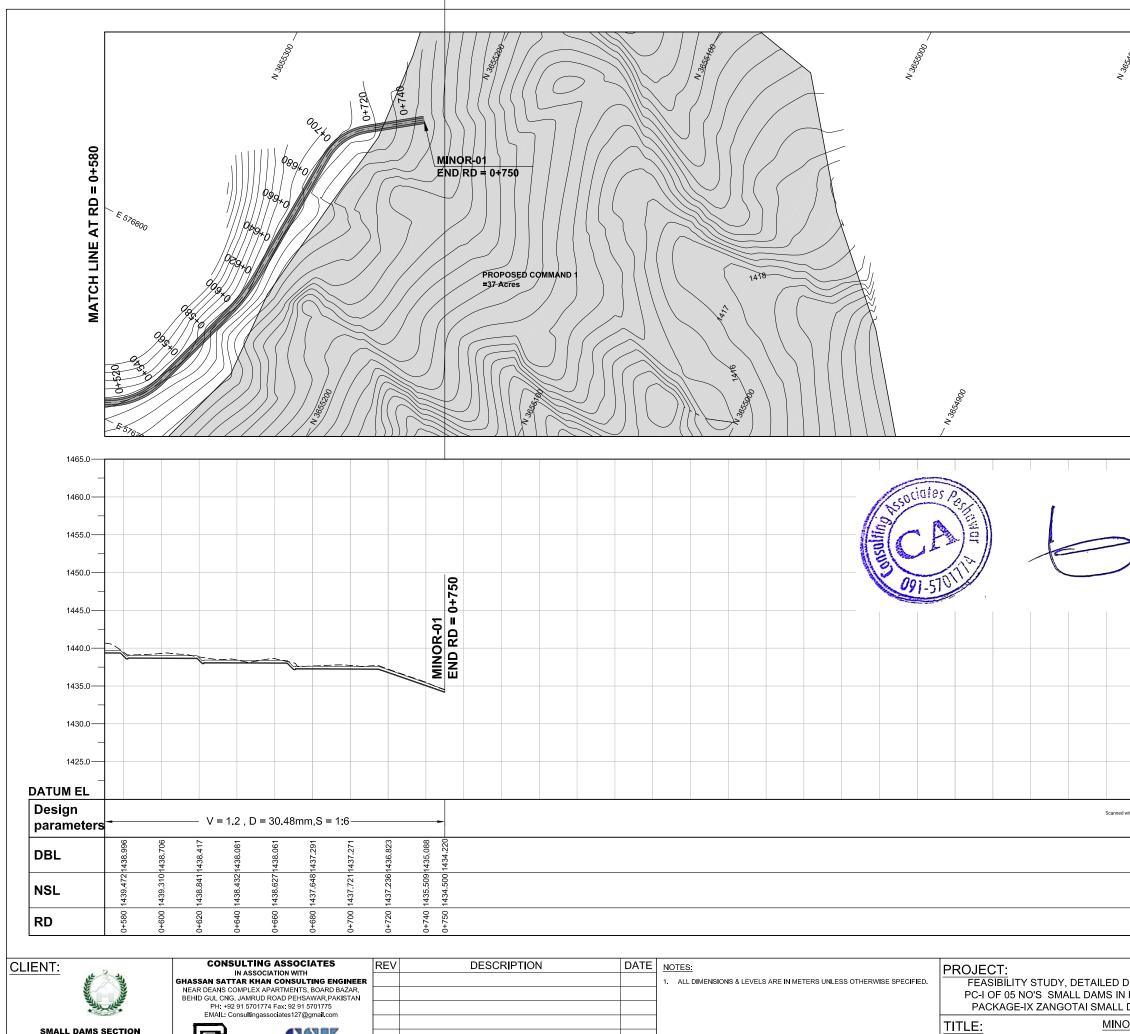






FILE REFERENCE.: F:/ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\08-MINOR-01/01 MINOR-01 PLAN & PROFILE.DWG

MATCH LINE AT RD = 0+580	DES NAT IND PRC PRC RIVI RIVI NUL HOU VILL GR/ CUL BRII ELE OUT	EGENDS: SIGN BED LEVEL FURAL SURFACE LEVEL EX CONTOUR ERMEDIATE CONTOUR OPOSED MINOR-01 AD OR KACHA TRACK ER OR KHWAR LLAH JSE LAGE AVE YARD LTIVATED LAND DGE OR CULVERT ICTRIC POLE TLET ACH MARK		500 501 501 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	COEF DISCI VELC FREE WIDT DEPT SLOF DESIG NATU REDU ELEV METE MILLI	E BOARD H OF CHANNEL H OF WATER 22 GN BED LEVEL JATION ERAL SURFACE LEVEL JCED LEVEL ATION ER METER CANAL GR-01 R-02	NS         OF         DRA           Q         V         FB           W         D         S           DBL         NSL         RD           EL         m         MMC           M-01         M-02         M-03	WING
Sociates personal and the second seco			-100mm PCC 1:2:4	, Hh
0+540   1440.162 0+560   1441.198 0+580   1439.472		TYPICAL \$           00 H) 0         20         40           00 V) 0         5         10	60 80 15 20	
DESIGN & PREPARATION OI N MERGED AREAS DISTRICT DAM - NORTH WAZIRISTAN OR-01	S			SCALE H = 1:2000 V = 1:500
+000 TO 0+580		DRAWING NO.	X-M1-01	REV 01
		Scan	iss with samecanner	



FILE REFERENCE : F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/08-MINOR-01/01 MINOR-01 PLAN & PROFILE.DWG

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SMALL DAMS SECTION

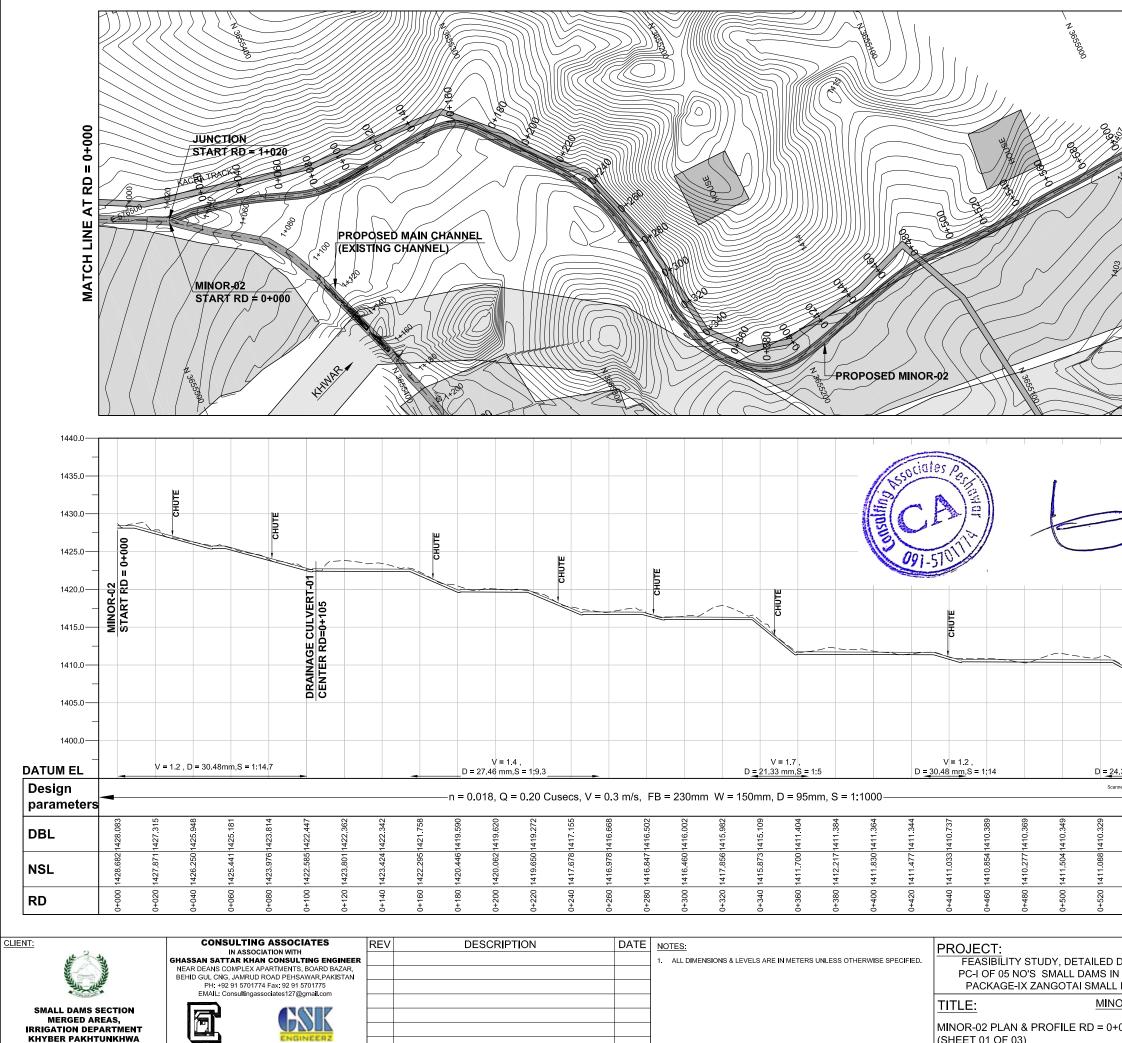
MERGED AREAS, IRRIGATION DEPARTMENT KHYBER PAKHTUNKHWA

	AT RD = 0+750	LEGENDS: DESIGN BED LEVEL NATURAL SURFACE LEVEL INDEX CONTOUR INTERMEDIATE CONTOUR PROPOSED MINOR-01 ROAD OR KACHA TRACK RIVER OR KHWAR NULLAH	- 1500
	MATCH LINE	HOUSE [ VILLAGE [ GRAVE YARD [ CULTIVATED LAND ] BRIDGE OR CULVERT ] ELECTRIC POLE ] OUTLET ] BENCH MARK	©EP →BM-1
₹ 		ABBREVIATIONS OF DR	AWING
		COEFFICIENT n DISCHARGE Q	
S Passa		VELOCITY V FREE BOARD FB	
	1	WIDTH OF CHANNEL W DEPTH OF WATER D	
A A A	5	SLOPE S DESIGN BED LEVEL DBL	
	1	ATURAL SURFACE LEVEL NSL	
AN AN AN	E	REDUCED LEVEL RD ELEVATION EL	
		METER m MILLIMETER mm	
	N	MAIN CANAL MC MINOR-01 M-01	
	Ν	MINOR-02 M-02	
		MINOR-03 M-03	
		+	<u>+300</u> + <u>↓</u> §§
Scanned with CamScanner			
		TYPICAL SECTION	
		(1:2000 H) 0 20 40 60	80 100m
		(1:500 V) 0 5 10 15	20 25m
PROJECT: FEASIBILITY STUDY, DETAILED DESIGN & PREPARATION PC-I OF 05 NO'S SMALL DAMS IN MERGED AREAS DISTRI PACKAGE-IX ZANGOTAI SMALL DAM - NORTH WAZIRIST.	CTS		SCALE H = 1:2000 V = 1:500
TITLE: MINOR-01			
<u>TITLE:</u> <u>MINOR-01</u> MINOR-01 PLAN & PROFILE RD = 0+580 TO 0+750		DRAWING NO.	 01

## M2-MINOR-02



1



FILE REFERENCE .. F. ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\09-MINOR-02\01 MINOR-02 PLAN & PROFILE.DWG

KHYBER PAKHTUNKHWA

1400 1400 1000 1000 1400 1400 1400 1400	CULTIVATED LAND BRIDGE OR CULVERT ELECTRIC POLE OUTLET BENCH MARK	©EP →BM-1
	ABBREVIATIO	NS OF DRAWING
	COEFFICIENT	n
/	DISCHARGE VELOCITY	Q V
	FREE BOARD	FB
AL AA	WIDTH OF CHANNEL	W
In the second	DEPTH OF WATER SLOPE	D S
	DESIGN BED LEVEL	DBL
7 11.	NATURAL SURFACE LEVEL	NSL
	REDUCED LEVEL	RD
	ELEVATION METER	EL m
	MILLIMETER	m mm
	MAIN CANAL	MC
	MINOR-01	M-01
	MINOR-02 MINOR-03	M-02 M-03
	SECTION FOR (1:2000 H) 0 20 40 (1:500 V) 0 5 10	0 0 
4.38 mm_S = 1:7.4         med with CanScamer         09+290         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         09         00         00         00         00         00         00         00         00         00         00         00         00         00	SECTION FOR (1:2000 H) 0 20 40	0 0 0 0 0 0 0 0 0 0 0 0 0 0
4.38 mm_S = 1:7.4           nned with CamScanner           09         50           09         50           100         100           110         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           1110         100	SECTION FOR (1:2000 H) 0 20 40	0 0 0 0 0 0 0 0 0 0 0 0 0 0
4.38 mm_S = 1:7.4           nned with CamScanner           09         50           09         50           100         100           110         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           111         100           1110         100	SECTION FOR (1:2000 H) 0 20 40	0 0 0 0 0 0 0 0 0 0 0 0 0 0
1.38 mm, S = 1:7.4           med with CamScamer           09         90           09         20           09         20           09         20           09         20           09         20           09         20           09         20           09         20           09         20           09         20           00         90           01         01           02         90           02         90           03         90           04         0           05         0           04         0           05         0           05         0           08         0           08         0           08         0           08         0           08         0           08         0           08         0           08         0           08         0           08         0           08         0           0         0 <td>SECTION FOR (1:2000 H) 0 20 40</td> <td>0 0 0 0 0 0 0 0 0 0 0 0 0 0</td>	SECTION FOR (1:2000 H) 0 20 40	0 0 0 0 0 0 0 0 0 0 0 0 0 0
4.38 mm_S = 1:7.4 nned with CamScanner 099 S0 50 89 L 2 L2	(1:2000 H) 0 20 40 (1:500 V) 0 5 10	0         325         300         8           100mm PCC 1:2:4         INNOM B 602         25m           60         80         100m           15         20         25m           SCALE         H = 1:2000         V = 1:500           V = 1:500         REV

2

- 1501-

LEGENDS: DESIGN BED LEVEL

NATURAL SURFACE LEVEL INDEX CONTOUR

INTERMEDIATE CONTOUR

PROPOSED MINOR-02

**RIVER OR KHWAR** 

NULLAH

HOUSE

VILLAGE

ROAD OR KACHA TRACK

5

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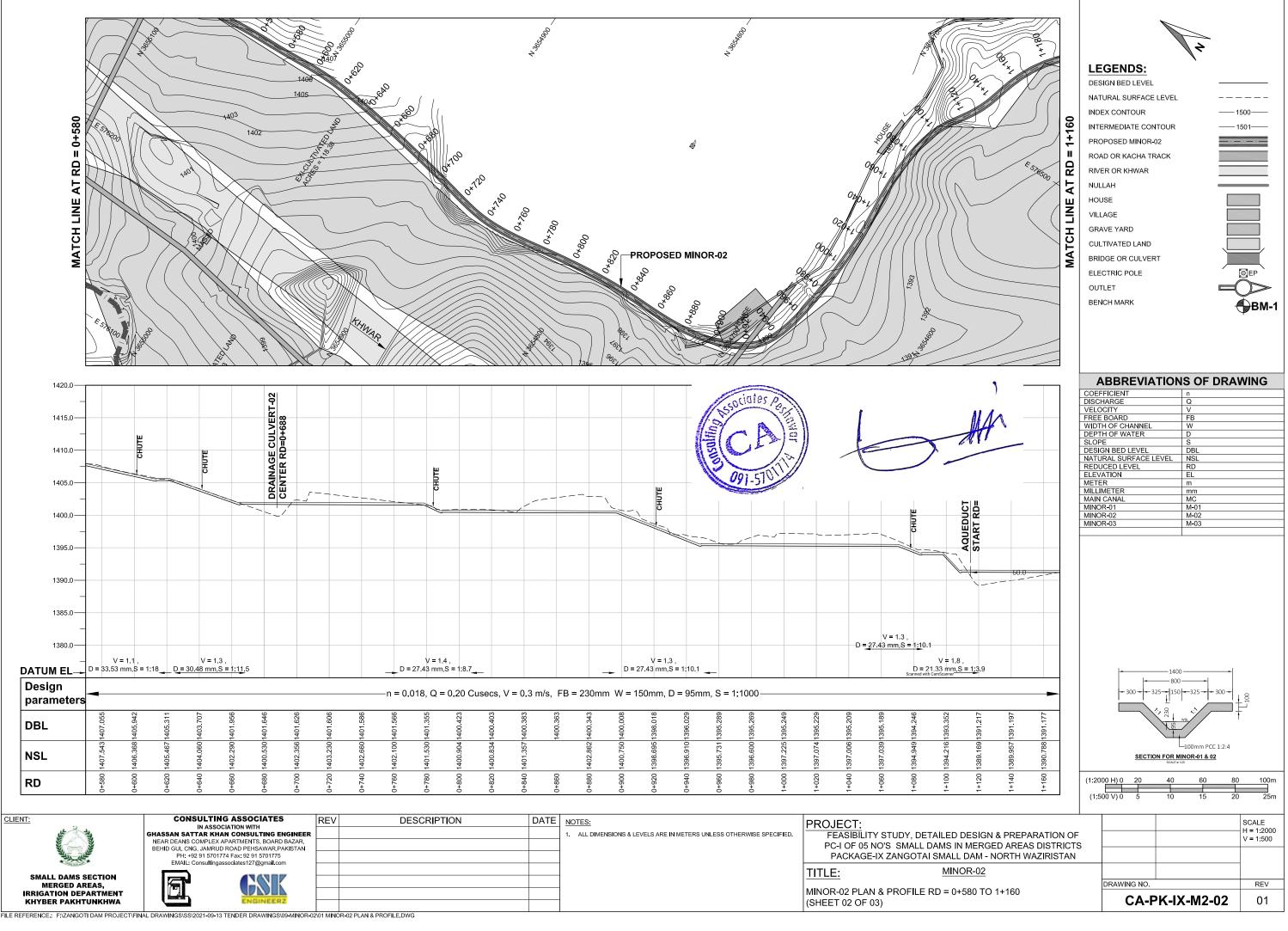
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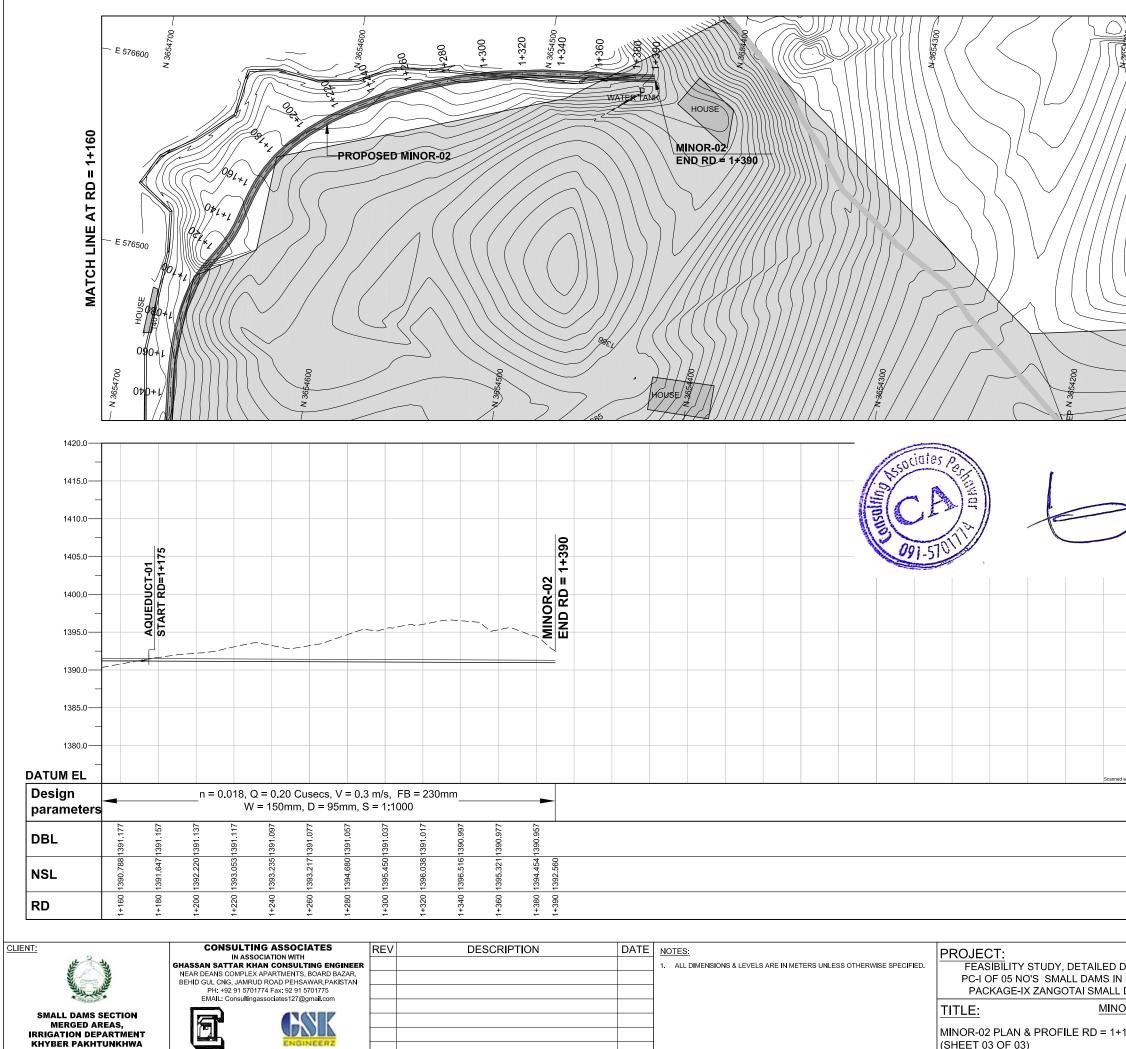
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(SHEET 01 OF 03)





FILE REFERENCE.: F:/ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/09-MINOR-02/01 MINOR-02 PLAN & PROFILE.DWG

KHYBER PAKHTUNKHWA

E 576500	NULLAH	
•	ABBREVIATION	IS OF DRAWING
)	COEFFICIENT	n
	DISCHARGE	Q
	VELOCITY	V
	FREE BOARD	FB
III LAK V	WIDTH OF CHANNEL	W
	DEPTH OF WATER	D
	SLOPE	S
X	DESIGN BED LEVEL	DBL
	NATURAL SURFACE LEVEL	NSL
	REDUCED LEVEL	RD
	ELEVATION	EL
	METER	m mm
	MAIN CANAL	MC
	MINOR-01	M-01
	MINOR-02	M-02
	MINOR-03	M-03
ad with CamScanner	+ 300 + 325 + 150 → 300 + 325 + 150 → 300 + 325 + 150 → 90 →	-100mm PCC 1:2:4
	(1:500 V) 0 5 10	15 20 25m SCALE H = 1:2000
DESIGN & PREPARATION O N MERGED AREAS DISTRIC DAM - NORTH WAZIRISTAN	rs	V = 1:500
<u>OR-02</u>		
-160 TO 1+390		
	CA-PK-I	<b>K-M2-03</b> 01

(SHEET 03 OF 03)

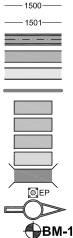
LEGENDS:

E 576700

1+390

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DESIGN BED LEVEL NATURAL SURFACE LEVEL INDEX CONTOUR INTERMEDIATE CONTOUR PROPOSED MINOR-02 ROAD OR KACHA TRACK



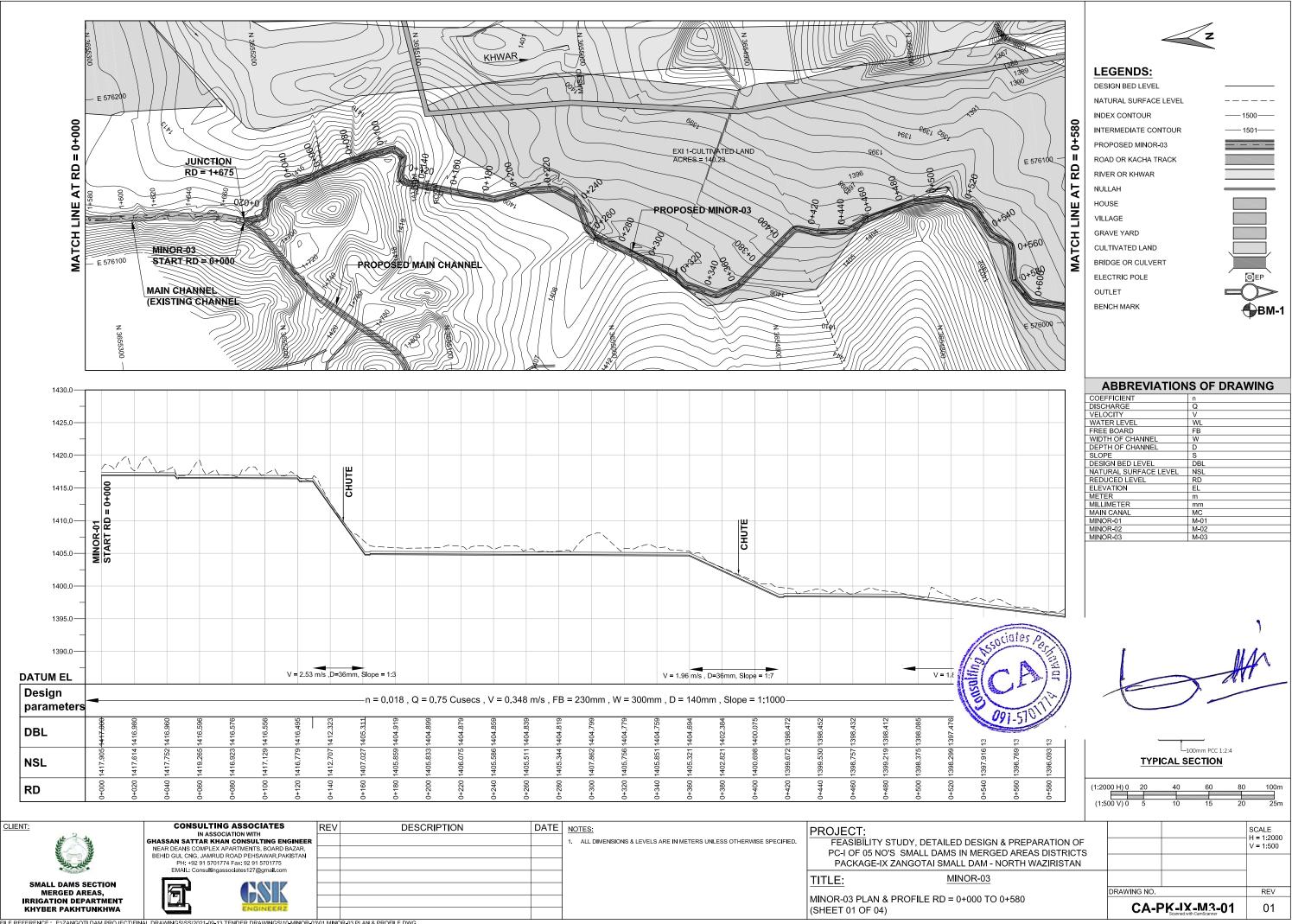
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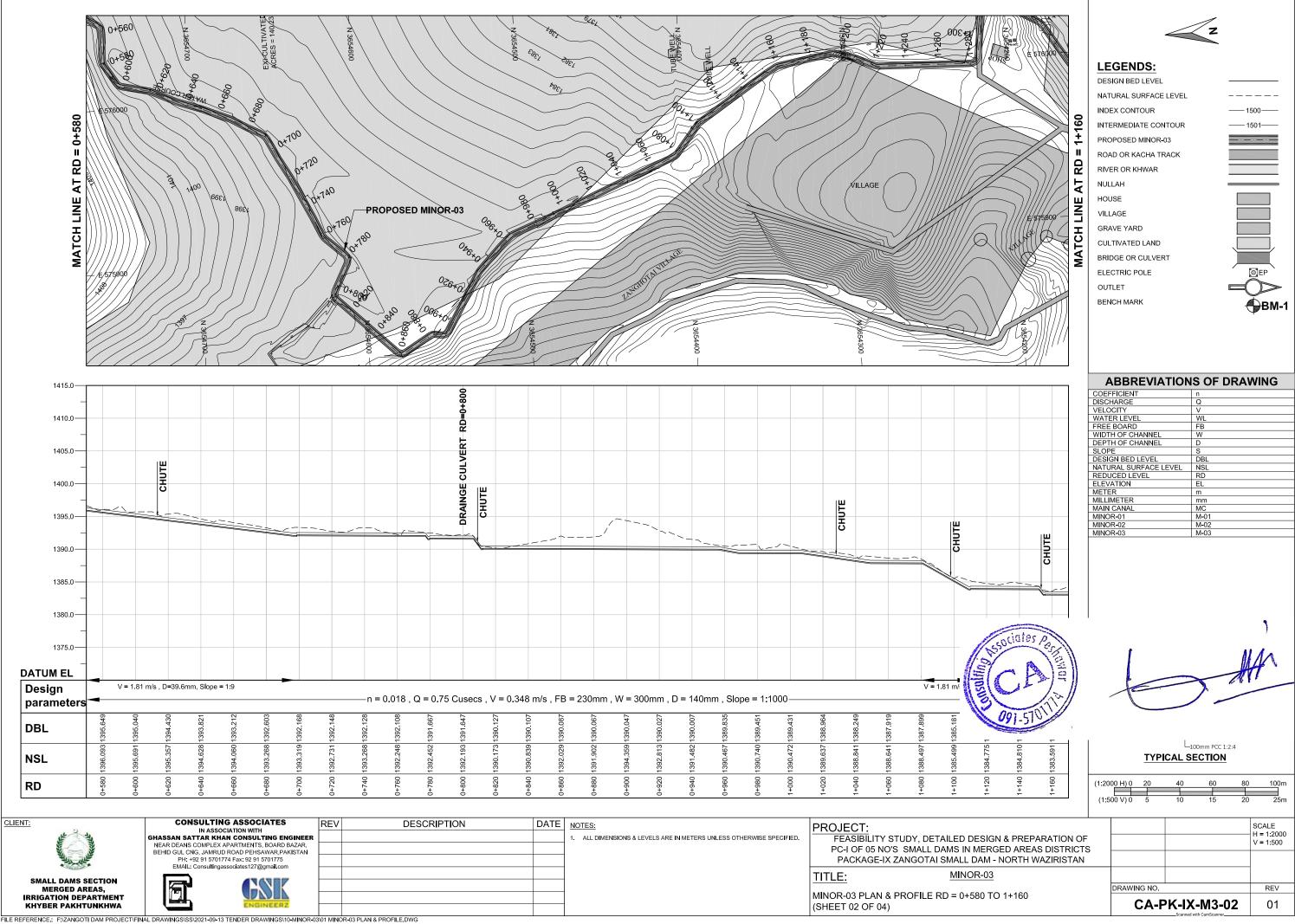
## MINOR-03

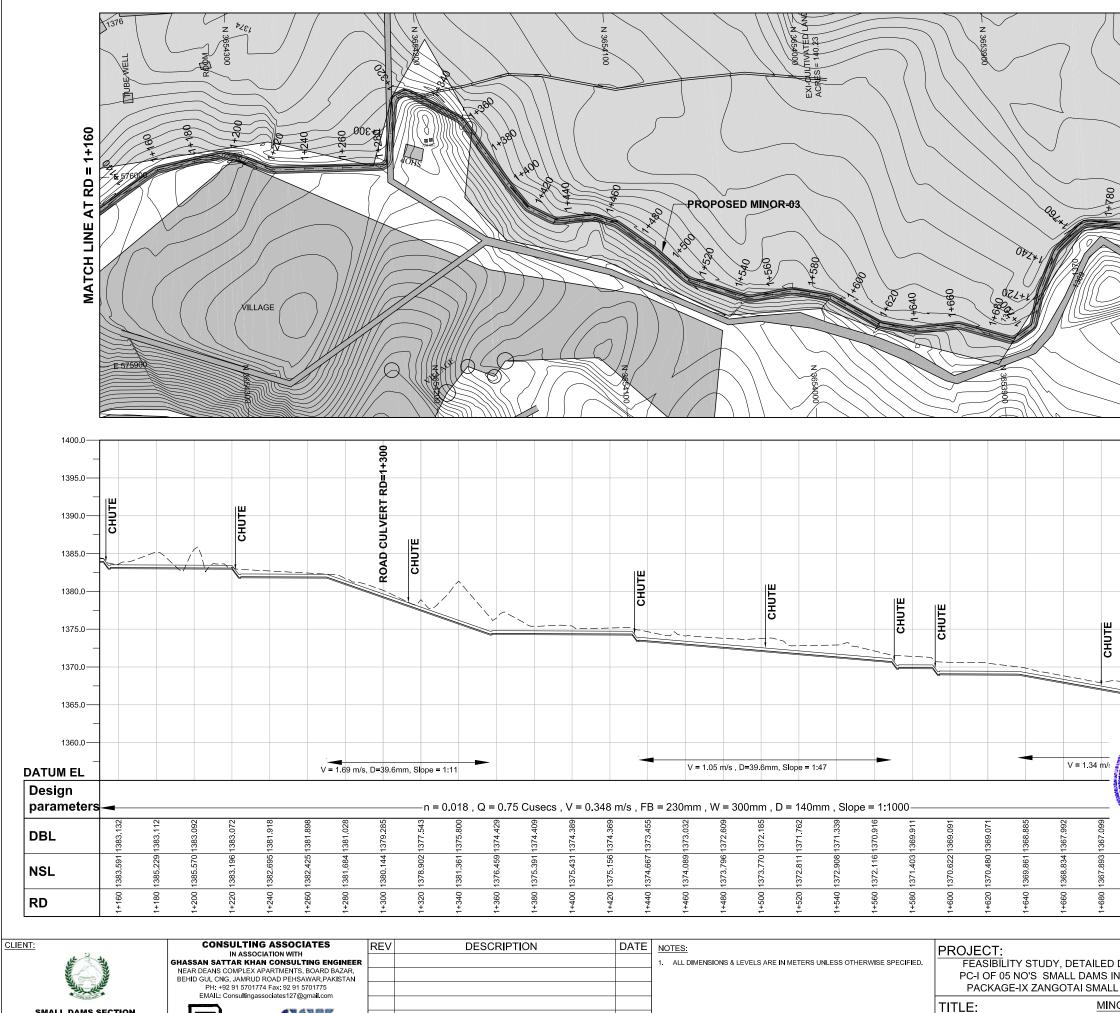






FILE REFERENCE .. F. ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS/2021-09-13 TENDER DRAWINGS\10-MINOR-03\01 MINOR-03 PLAN & PROFILE.DWG





FILE REFERENCE .: FIZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/10-MINOR-03/01 MINOR-03 PLAN & PROFILE.DWG

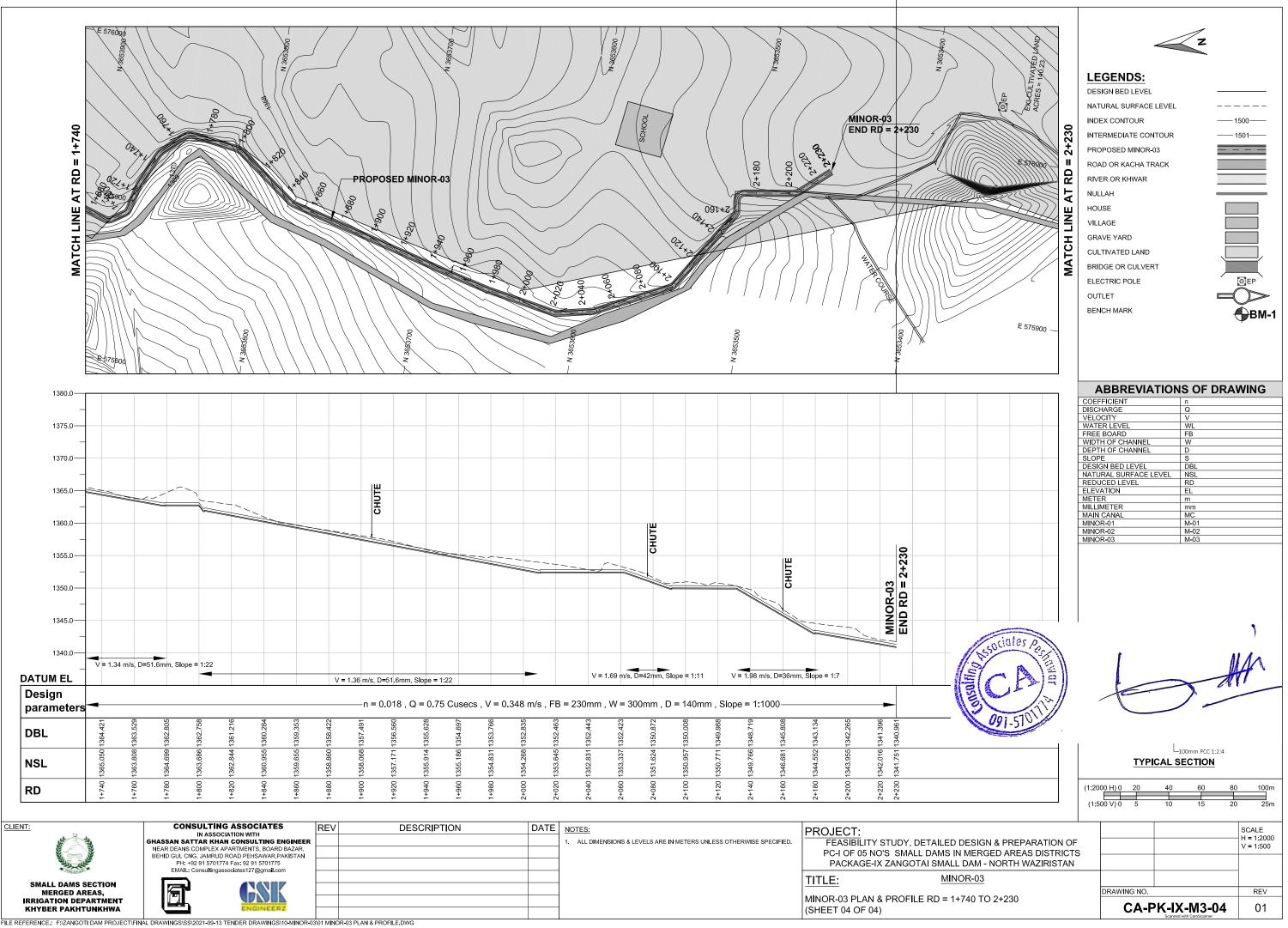
GSI

SMALL DAMS SECTION

MERGED AREAS, IRRIGATION DEPARTMENT

KHYBER PAKHTUNKHWA

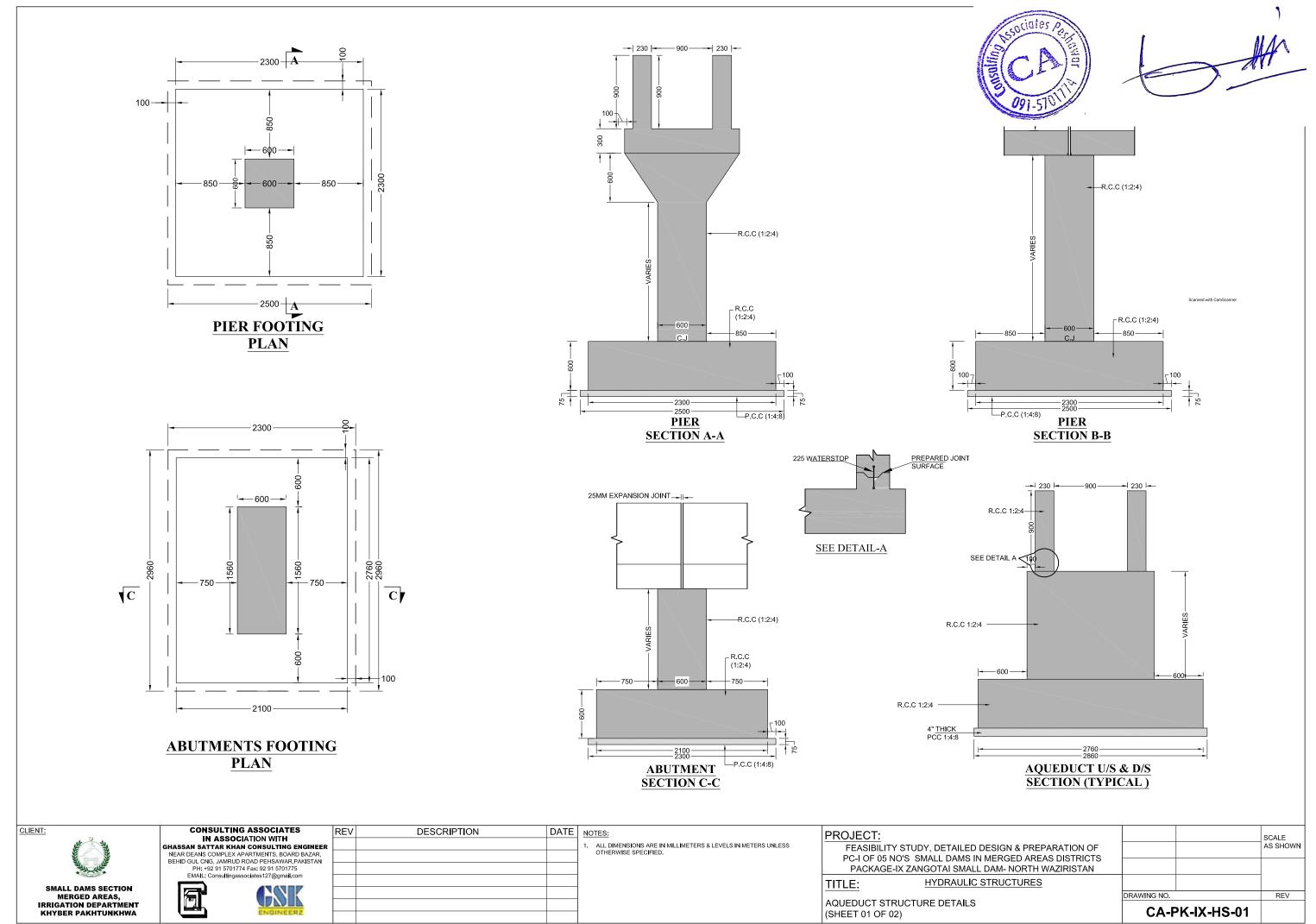
N 3653900 P 576000 P 5760000 P 5760000 P 5760000 P 576000000000000000000000000000000000000	MATCH LINE AT RD = 1+740	LEGENDS:   DESIGN BED LEVEL   NATURAL SURFACE LEVEL   NDEX CONTOUR   INDEX CONTOUR   INTERMEDIATE CONTOUR   INTERMEDIATE CONTOUR   PROPOSED MINOR-03   ROAD OR KACHA TRACK   RIVER OR KHWAR   HOUSE   VILLAH   HOUSE   VILLAGE   GRAVE YARD   CULTIVATED LAND   BRIDGE OR CULVERT   ELECTRIC POLE   OUTLET   BENCH MARK
	]	ABBREVIATIONS OF DRAWING
		COEFFICIENT       n         DISCHARGE       Q         VELOCITY       V         WATER LEVEL       WL         FREE BOARD       FB         WIDTH OF CHANNEL       W         DEPTH OF CHANNEL       D         SLOPE       S         DESIGN BED LEVEL       DBL         NATURAL SURFACE LEVEL       NSL         REDUCED LEVEL       RD         ELEVATION       EL         METER       m         MILLIMETER       mm         MINOR-01       M-01         MINOR-02       M-02         MINOR-03       M-03
1+600         1370.622         1369.091           1+620         1370.480         1369.071           1+620         1369.861         1368.885           1+640         1369.861         1368.885           1+660         1368.834         1367.992           1+680         1367.893         1367.099           1+700         1367.893         1367.099           1+720         1367.893         1367.099           1+720         1365.235         1           1+720         1366.235         1	, - -	
1+600 1+620 1+640 1+680 1+680 1+700 1+720	]	(1:2000 H) 0 20 40 60 80 100m (1:500 V) 0 5 10 15 20 25m
PROJECT: FEASIBILITY STUDY, DETAILED DESIGN & PREPARATIO PC-I OF 05 NO'S SMALL DAMS IN MERGED AREAS DISTF PACKAGE-IX ZANGOTAI SMALL DAM - NORTH WAZIRIS TITLE: <u>MINOR-03</u>	RICTS	
MINOR-03 PLAN & PROFILE RD = 1+160 TO 1+740 (SHEET 03 OF 04)		DRAWING NO.         REV           CA-PK-IX-M3-03         01           Scanned with CamScanner         01



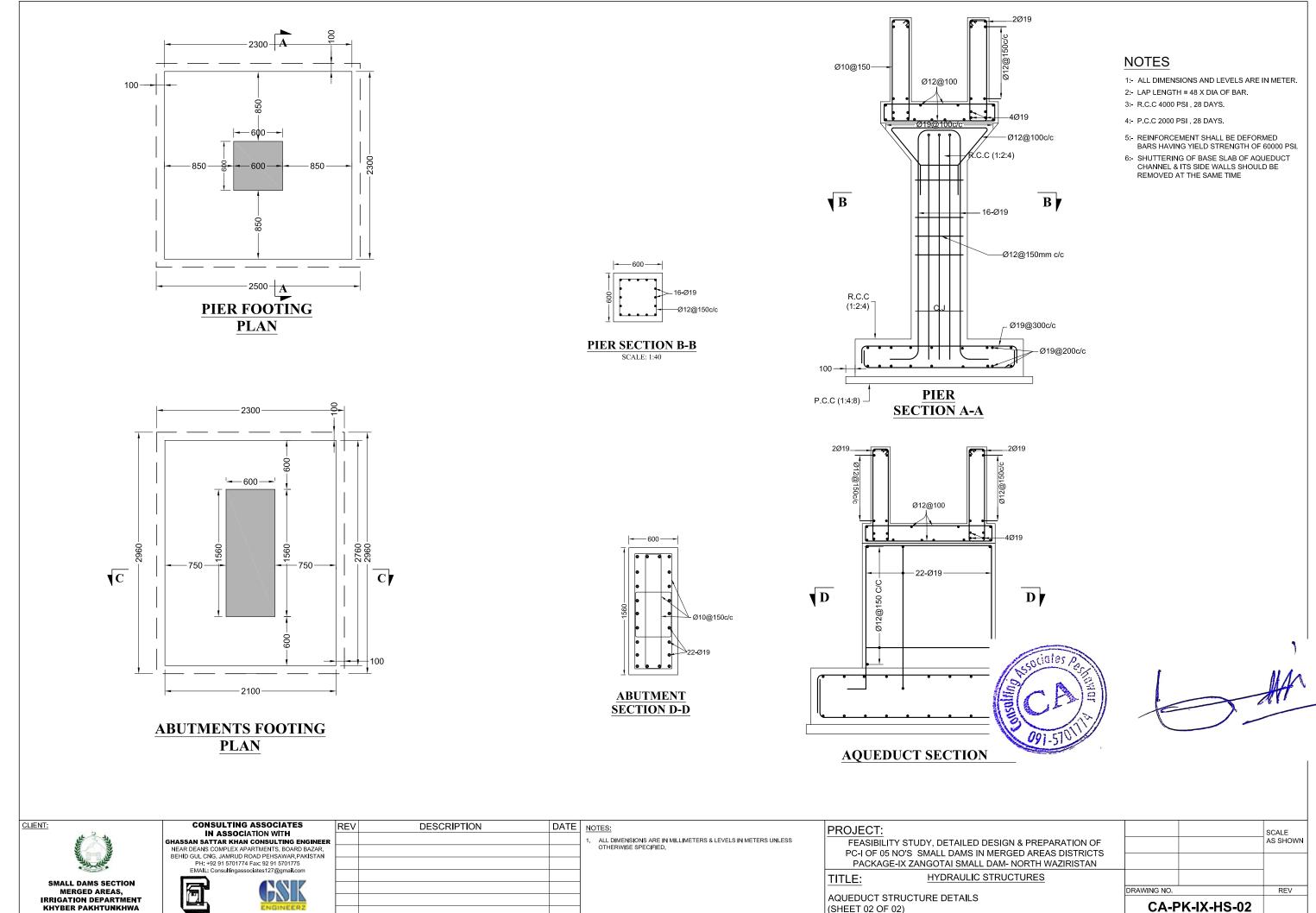
# **HS-HYDRAULIC STRUCTURES**







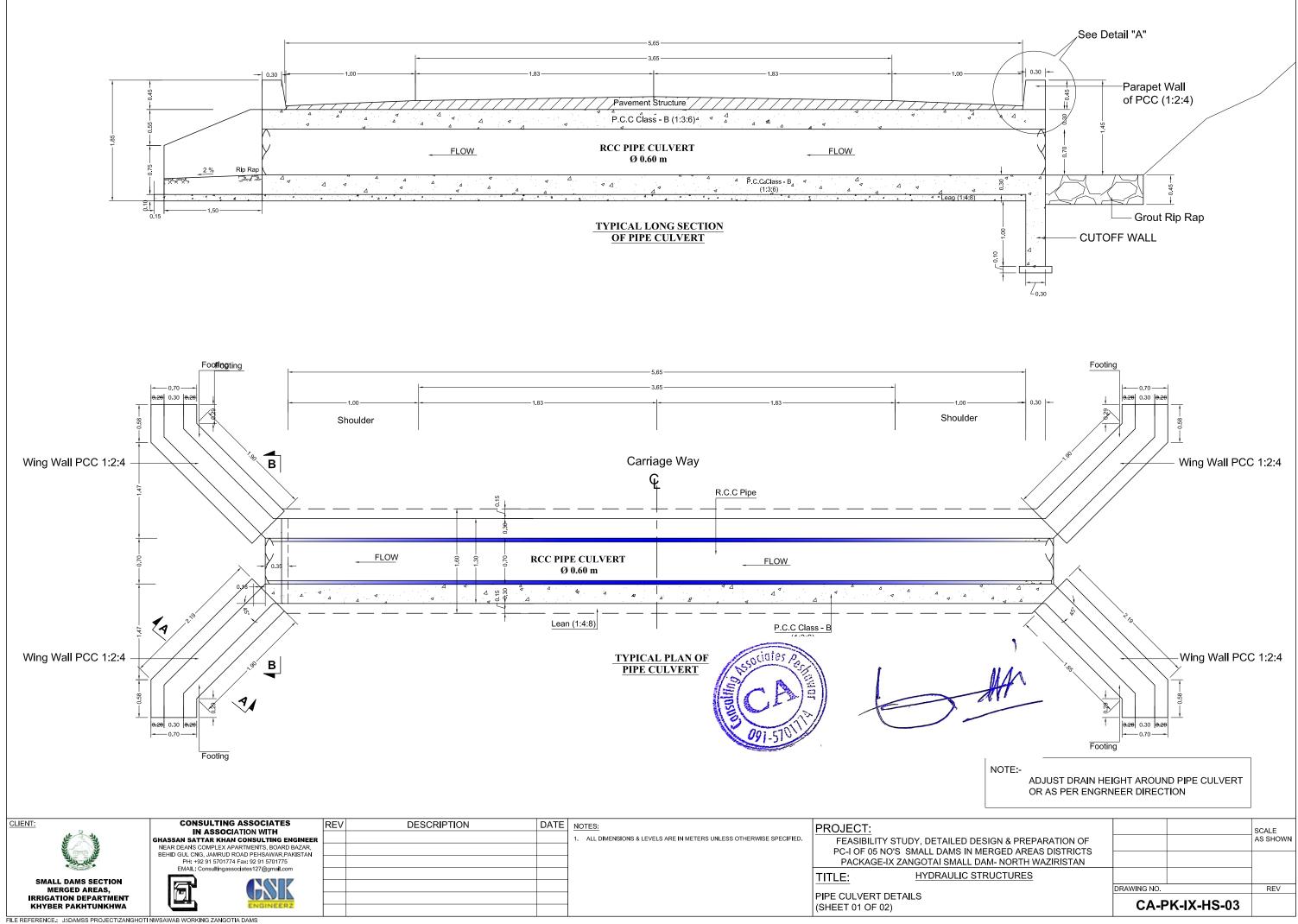
FILE REFERENCE .: J:\DAMSS PROJECT\ZANGHOTI NWSAWAB WORKING ZANGOTIA DAMS

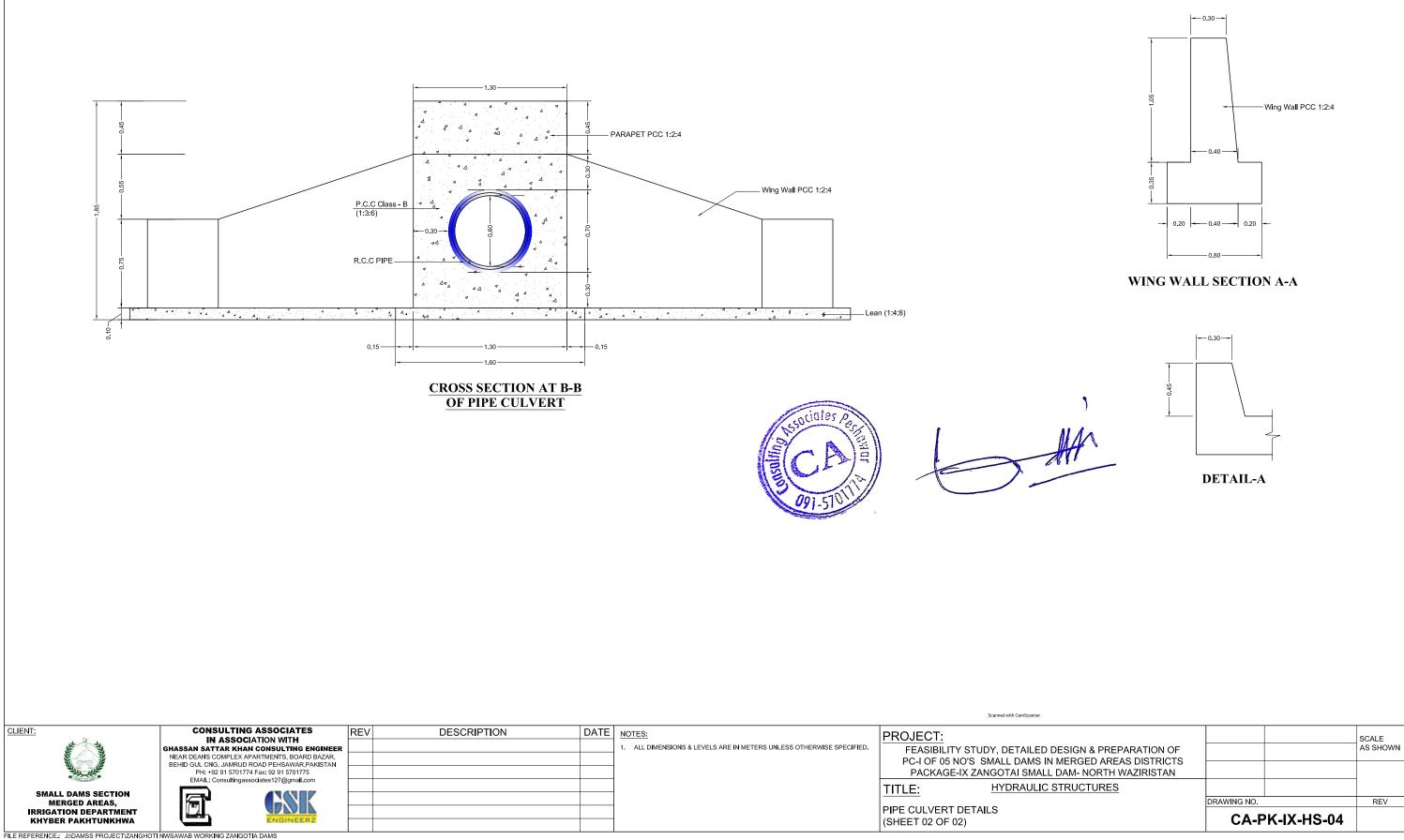


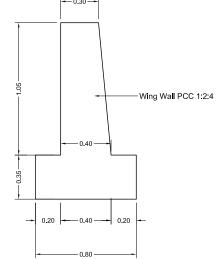
MERGED AREAS,	
IRRIGATION DEPARTME	1
KHYBER PAKHTUNKHV	N

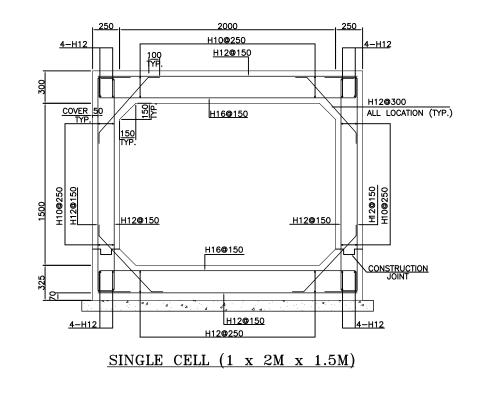
L I FILE REFERENCE.: J:\DAMSS PROJECT\ZANGHOTI NWSAWAB WORKING ZANGOTIA DAMS

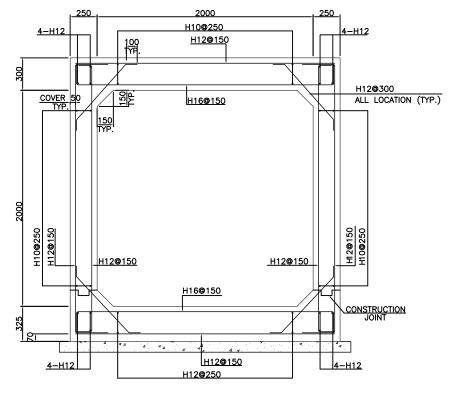
(SHEET 02 OF 02)









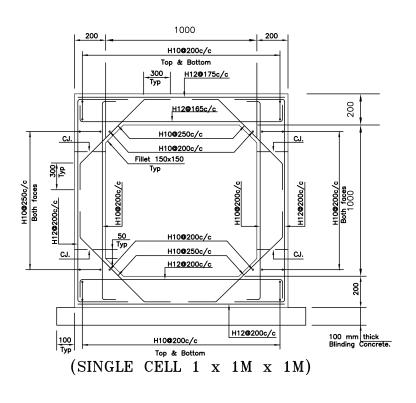


SINGLE CELL (1 x 2M x 2M)

### NOTES:-

- - ALL STURCTURAL CONCRETE SHALL BE CLASS "A' CONCRETE.
  - ALL STURCTURAL REINFORCEMENT SHALL BE GRADE 60 STEEL.
  - MINIMUM COVER TO THE REINFORCEMENT SHALL BE 50mm.
  - OVERLAP LENGTH OF REBAR SHALL BE 48XDIA OF BARS.
  - FOR CULVERTS WITH SPAN LESS THAN ANY OF THOUS SHOWN IN TABLE, USE REINFORCEMENT AND SPACING FOR NEXT GREATER SIZE SPAN.MARK NECESSARY CHANGES IN BAR LENGTH AND QUANTITIES.
  - EXPENSION JOINTS SHALL BE PROVIDED AT MAX.15m LENGTH IF NECESSARY.
  - n= NUMBER OF CELLS
  - LAP= 48 TIMES DIA OF BAR
  - FOR BARS MARKED D,E,F, & G IN MULTIPLE CELLS CULVERTS, THE LAP SHALL BE PROVIDED AT LOCATIONS AS FOLLOWS: (i) FOR BARS C & F AT MID OF CULVERT CELL. (ii) FOR BARS D & E AT C.L OF INTERNAL WALL.
  - THE EXTRA LENGTH OF BARS C, D, E & F DUE TO SKEW EFFECT SHALL BE BENT
  - IN THE WALLS MAINTAINING THE CONCRETE COVER
  - C.J MEANS CONSTRUCTION JOINT
  - THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH DRAWING NO. BHN-KHN-43210-306

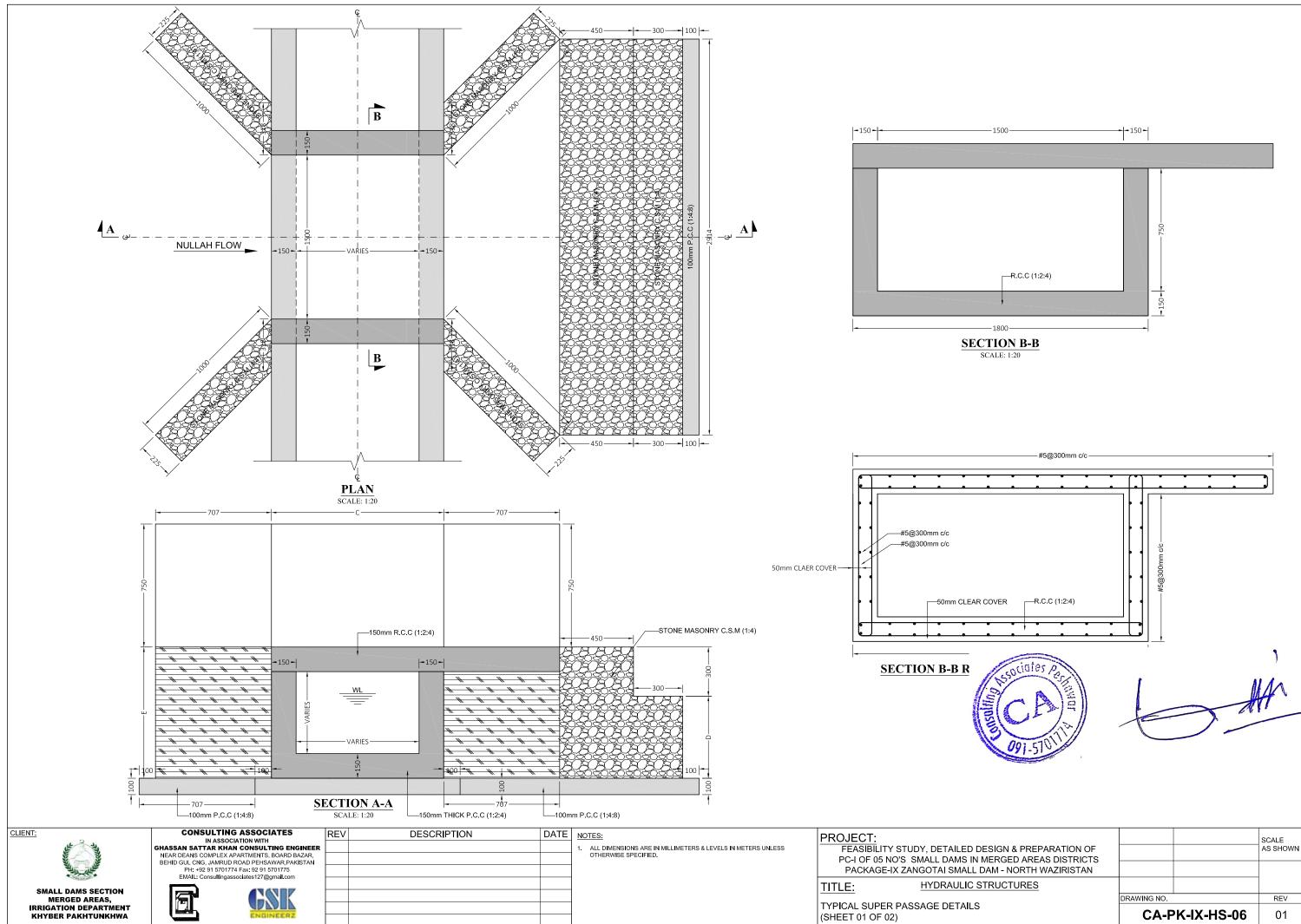
NOTE:-ADJUST LENGTH BOX CULVERT AS PER SITE OR AS DIRECTED BY ENGRNEER



9	LIENT:	CONSULTING ASSOCIATES	REV	DESCRIPTION	DATE	NOTES:	PROJECT:
	16 11	IN ASSOCIATION WITH					PROJECT.
	ALL ALL ALL	GHASSAN SATTAR KHAN CONSULTING ENGINEER				1. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS IN METERS UNLESS	FEASIBILITY STUDY, DETAILED DE
		NEAR DEANS COMPLEX APARTMENTS, BOARD BAZAR,				OTHERWISE SPECIFIED.	PC-I OF 05 NO'S SMALL DAMS IN M
	St. Subb	BEHID GUL CNG, JAMRUD ROAD PEHSAWAR, PAKISTAN					
	and the second	PH: +92 91 5701774 Fax: 92 91 5701775 EMAIL: Consultingassociates127@gmail.com					PACKAGE-IX ZANGOTAI SMALL E
	- Starter	EMAIL: Consultingassociates 127@gmail.com					TITLE: <u>HYDRAULIC S</u>
	SMALL DAMS SECTION						<u>IIILE.</u> <u>IIIBIOIOEIO O</u>
	MERGED AREAS,						
	IRRIGATION DEPARTMENT						BOX CULVERT DETAILS
	KHYBER PAKHTUNKHWA	ENGINEERZ					(SHEET 01 OF 01)

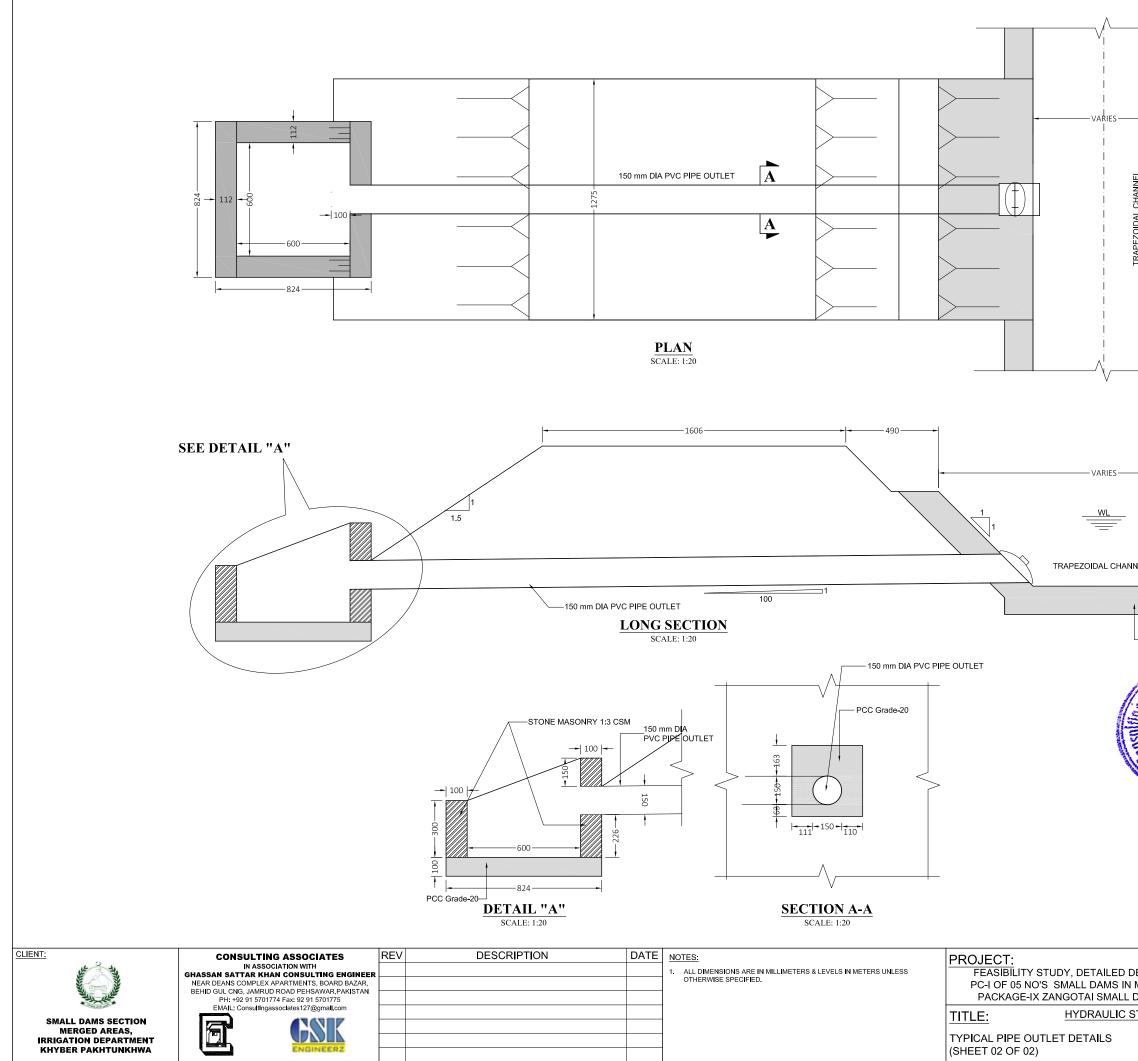
L I FILE REFERENCE.: J:\DAMSS PROJECT\ZANGHOTI NWSAWAB WORKING ZANGOTIA DAMS

		Scanned with CamScanner	
ESIGN & PREPARATION OF MERGED AREAS DISTRICTS			SCALE AS SHOWN
DAM- NORTH WAZIRISTAN			
STRUCTURES			
	DRAWING NO.		REV
	CA-P	K-IX-HS-05	



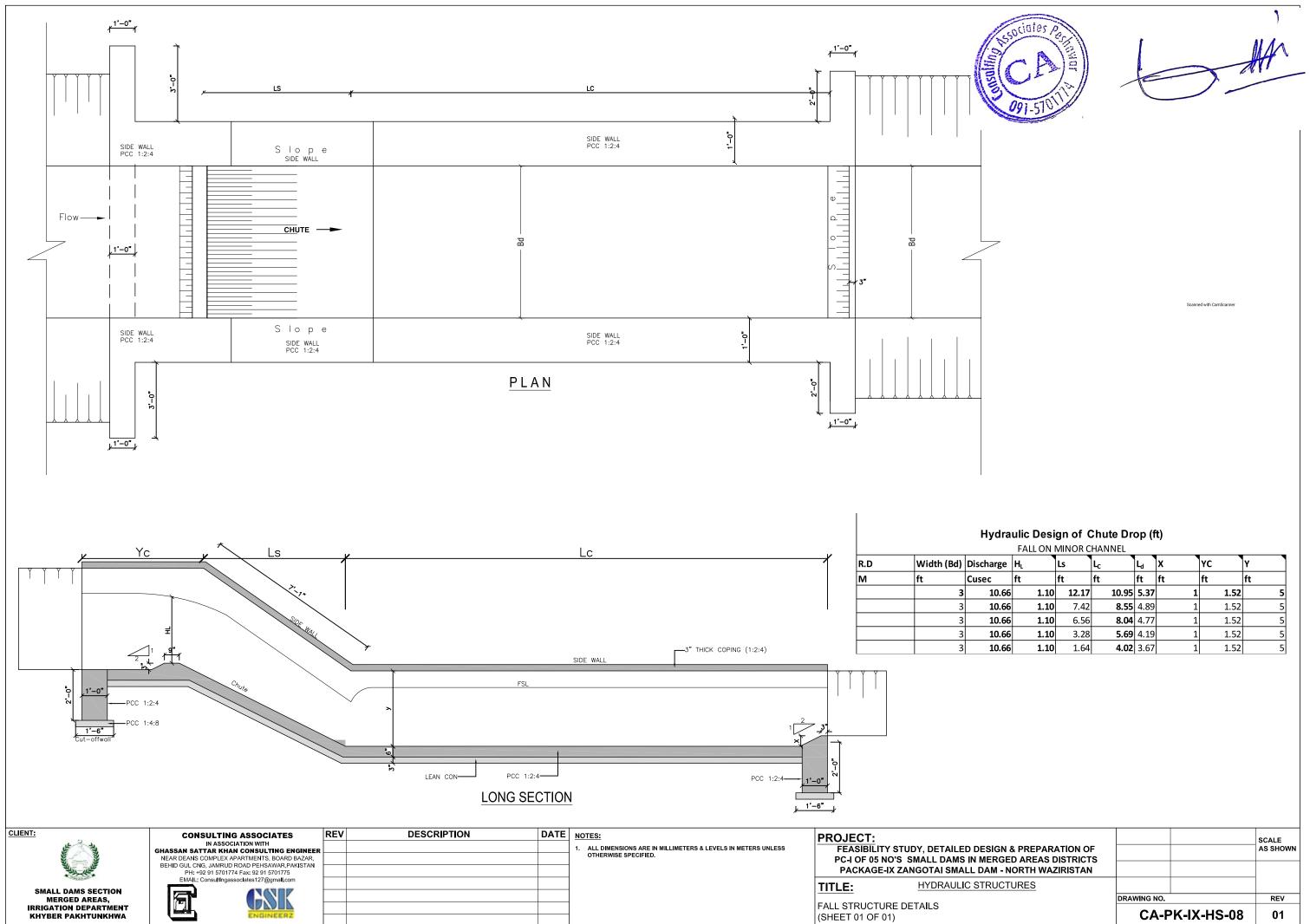
LE REFERENCE .: F:ZANGOTI DAM PROJECT/FINAL DRAWINGS/S2/21-09-13 TENDER DRAWINGS/11-HYDRAULIC STRUCTURES/04 HYDRAULIC STRUCTURES.DWG

CA C		HAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
DESIGN & PREPARATION OF N MERGED AREAS DISTRICTS		SCALE AS SHOWN
. DAM - NORTH WAZIRISTAN		
STRUCTURES		
	DRAWING NO.	REV
S	CA-PK-IX-HS-06	01



FILE REFERENCE .: F:ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\11-HYDRAULIC STRUCTURES\04 HYDRAULIC STRUCTURES.DWG

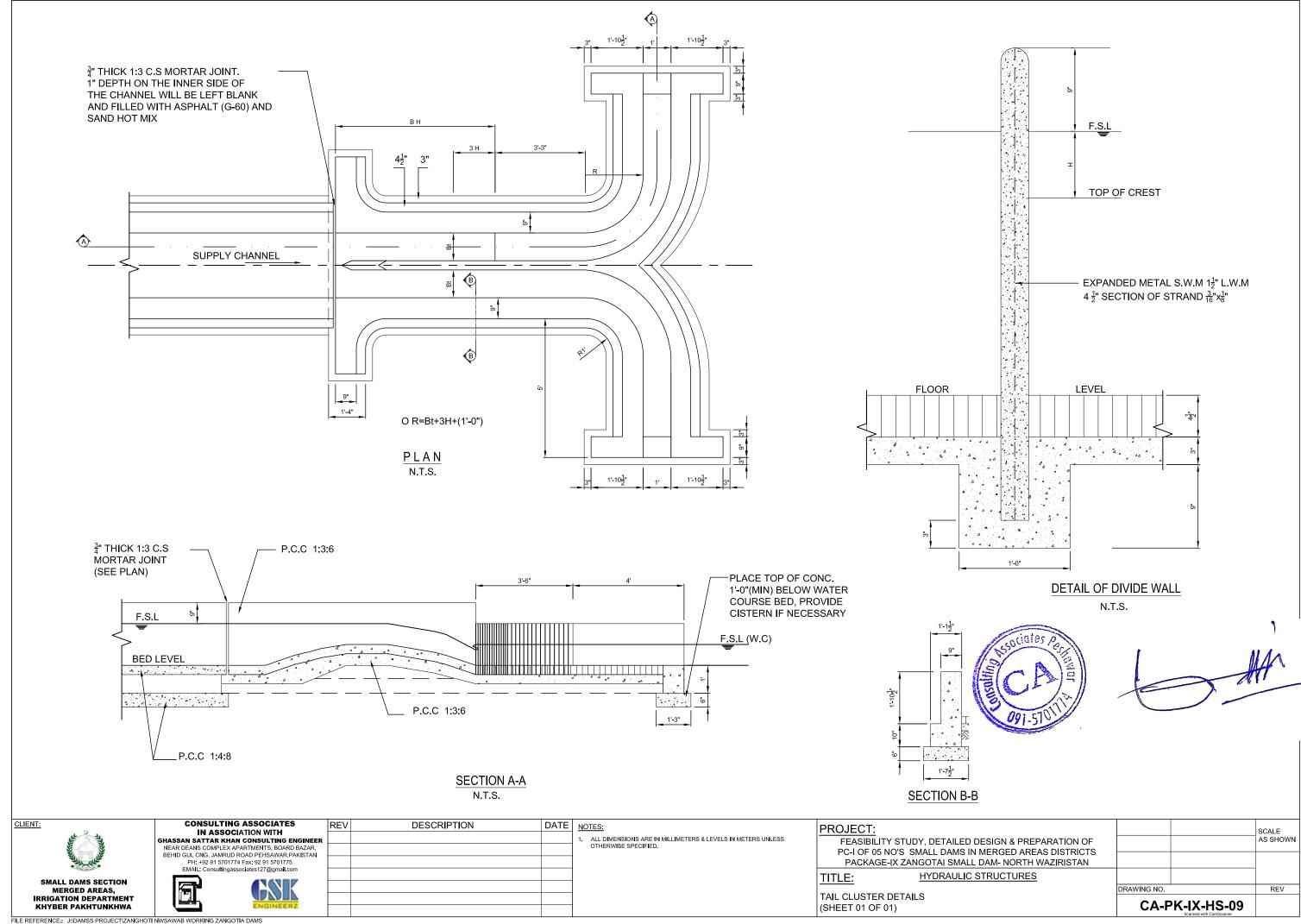
Implementation of Merces     Implementation of Merces       DESIGN & PREPARATION OF MERCES     Implementation of Merces <t< th=""><th></th><th></th><th></th></t<>			
P.C.C (1:2:4) P.C.C (1:2:4) P.C.C (1:2:4) DESIGN & PREPARATION OF IMERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN STRUCTURES DRAWING NO. REV			
DESIGN & PREPARATION OF VMERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN STRUCTURES	TRAPEZOIDAL CHANNEL		
DESIGN & PREPARATION OF N MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN STRUCTURES DRAWING NO. REV	P.C.C	(1:2:4)	
DESIGN & PREPARATION OF N MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN STRUCTURES DRAWING NO. REV	ssociates Per		, Att
STRUCTURES     DRAWING NO.     REV	MERGED AREAS DISTRICTS		AS SHOWN
DRAWING NO. REV			
CA-PK-IX-HS-07 01			
		CA-PK-IX-	HS-07 01



FILE REFERENCE : F:ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/11-HYDRAULIC STRUCTURES/05 FALL.DWG

	FALL ON MINOR CHANNEL						
ischarge	HL	Ls	ւ	Ld	x	YC	Y
usec	ft	ft	ft	ft	ft	ft	ft
10.66	1.10	12.17	10.95	5.37	1	1.52	5
10.66	1.10	7.42	8.55	4.89	1	1.52	5
10.66	1.10	6.56	8.04	4.77	1	1.52	5
10.66	1.10	3.28	5.69	4.19	1	1.52	5
10.66	1.10	1.64	4.02	3.67	1	1.52	5

DESIGN & PREPARATION OF MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN			SCALE AS SHOWN
TRUCTURES			
	DRAWING NO.		REV
	CA-F	YK-IX-HS-08	01

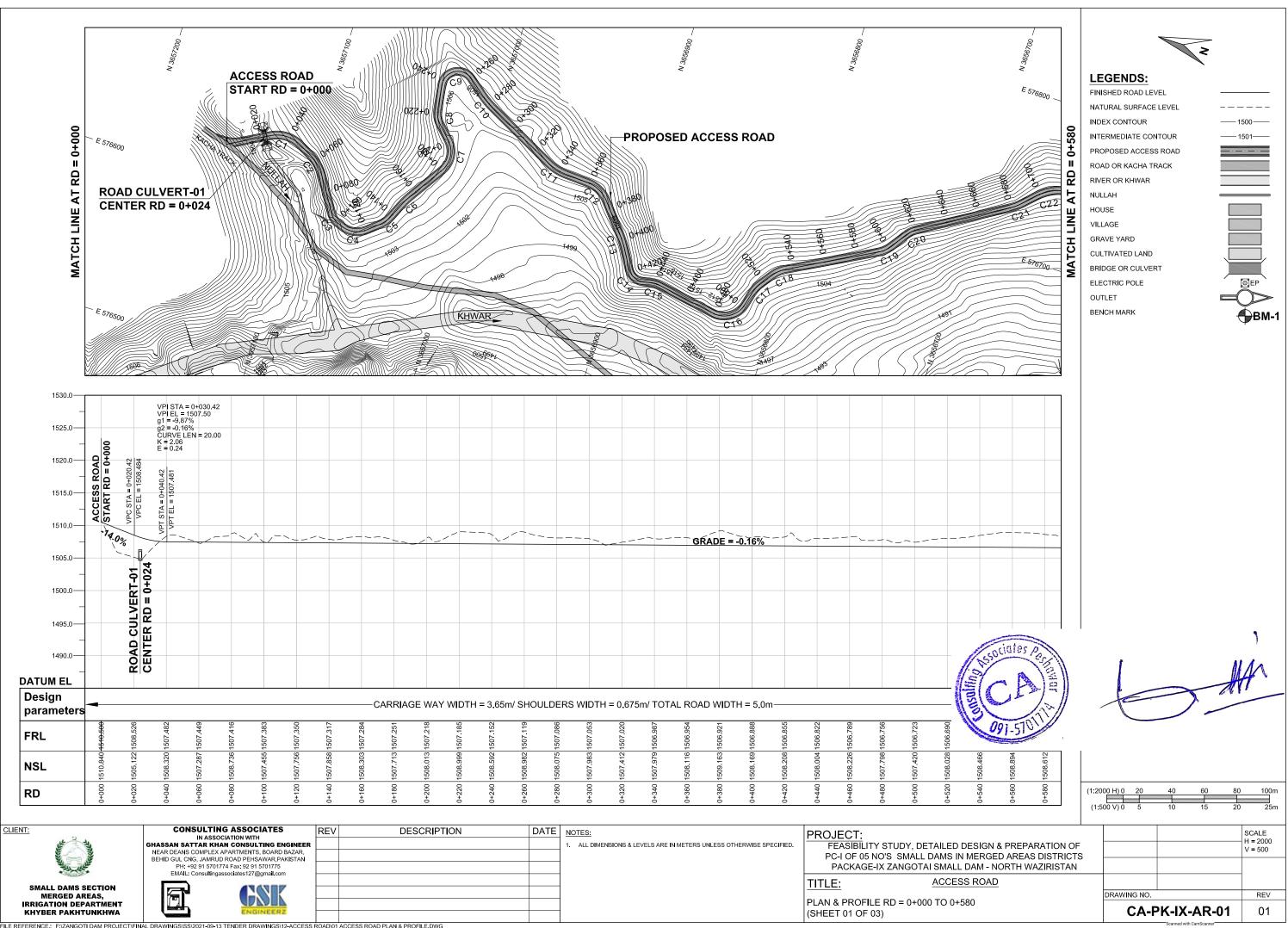


## **AR-ACCESS ROAD**

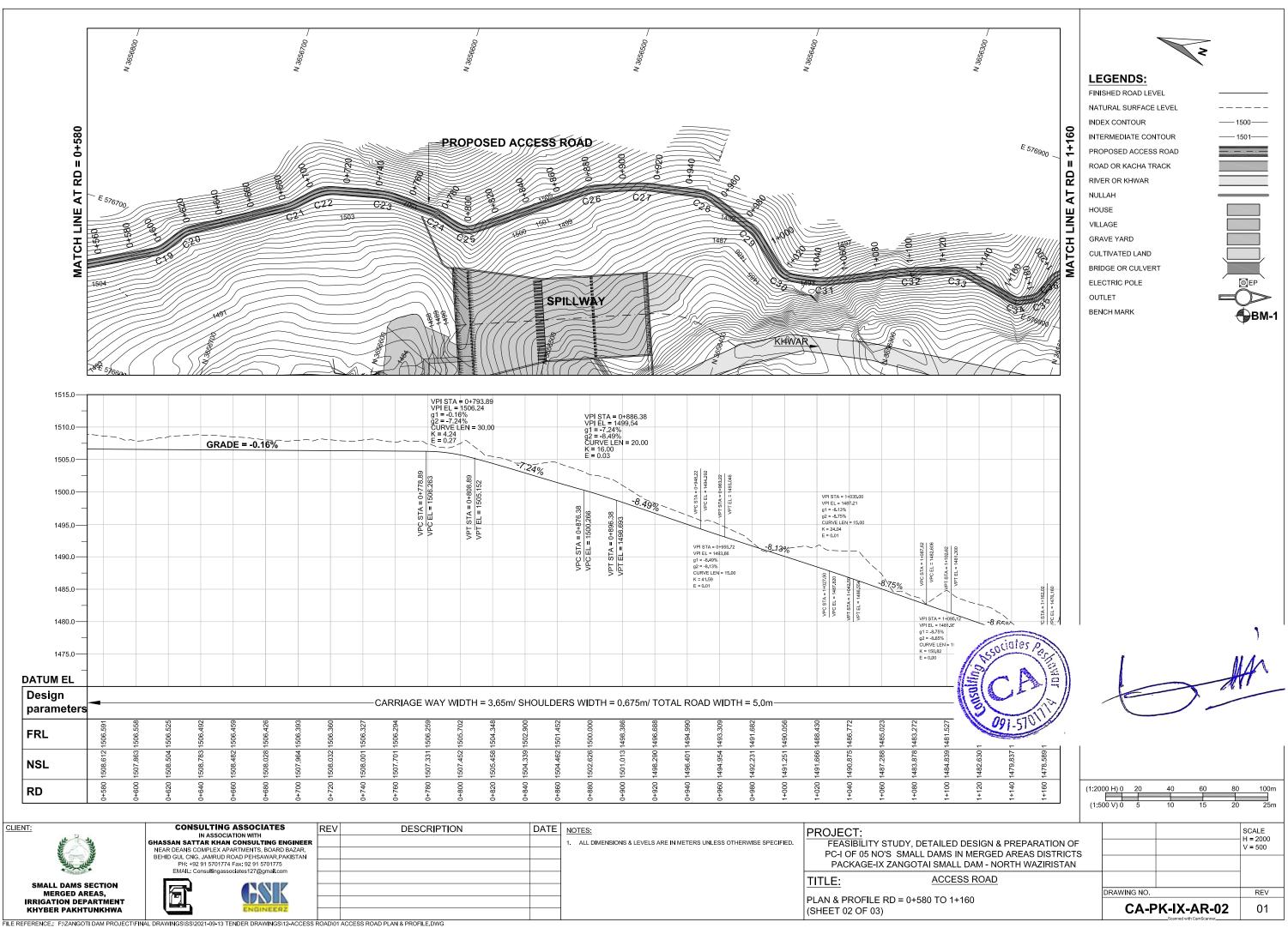


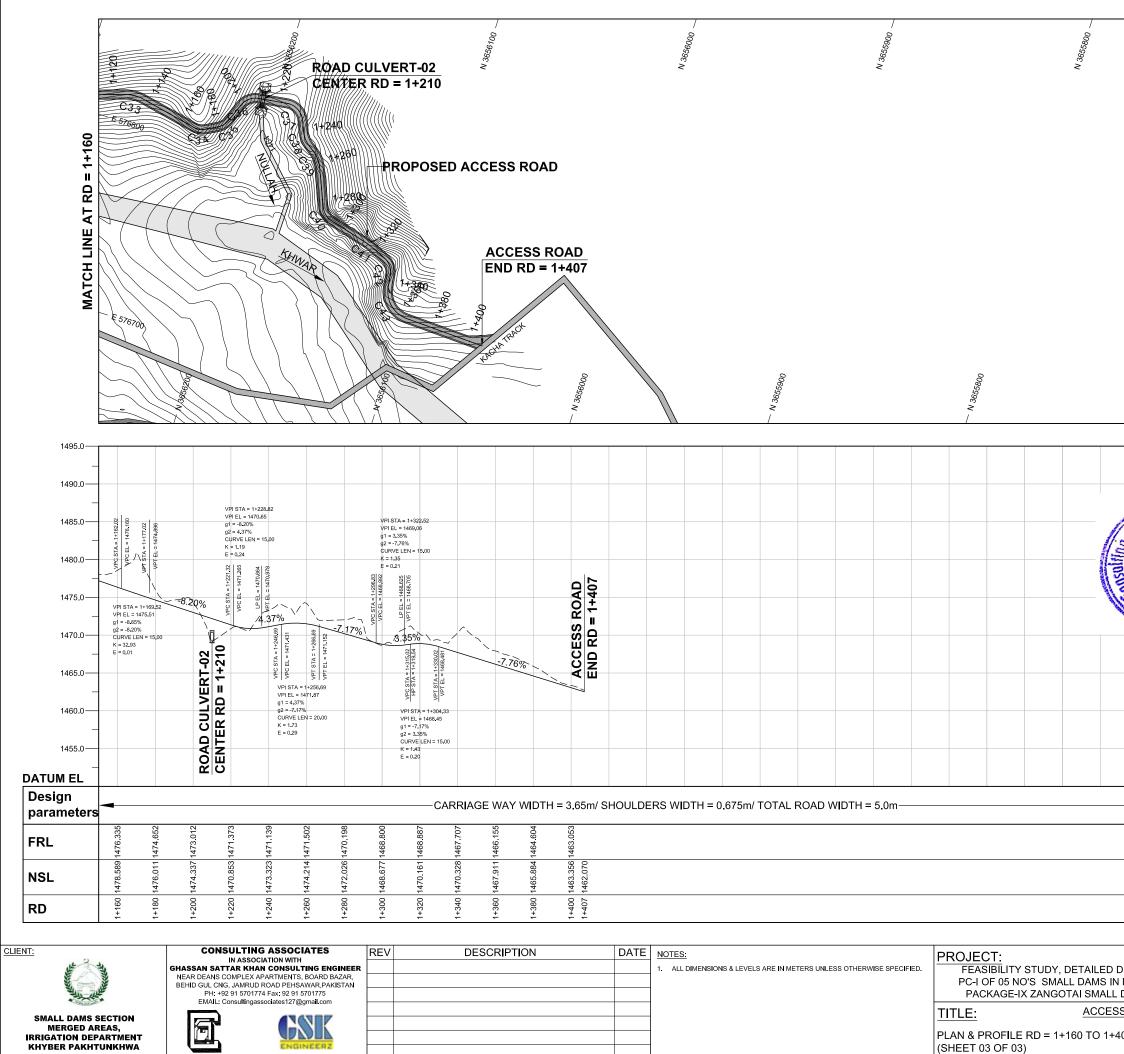
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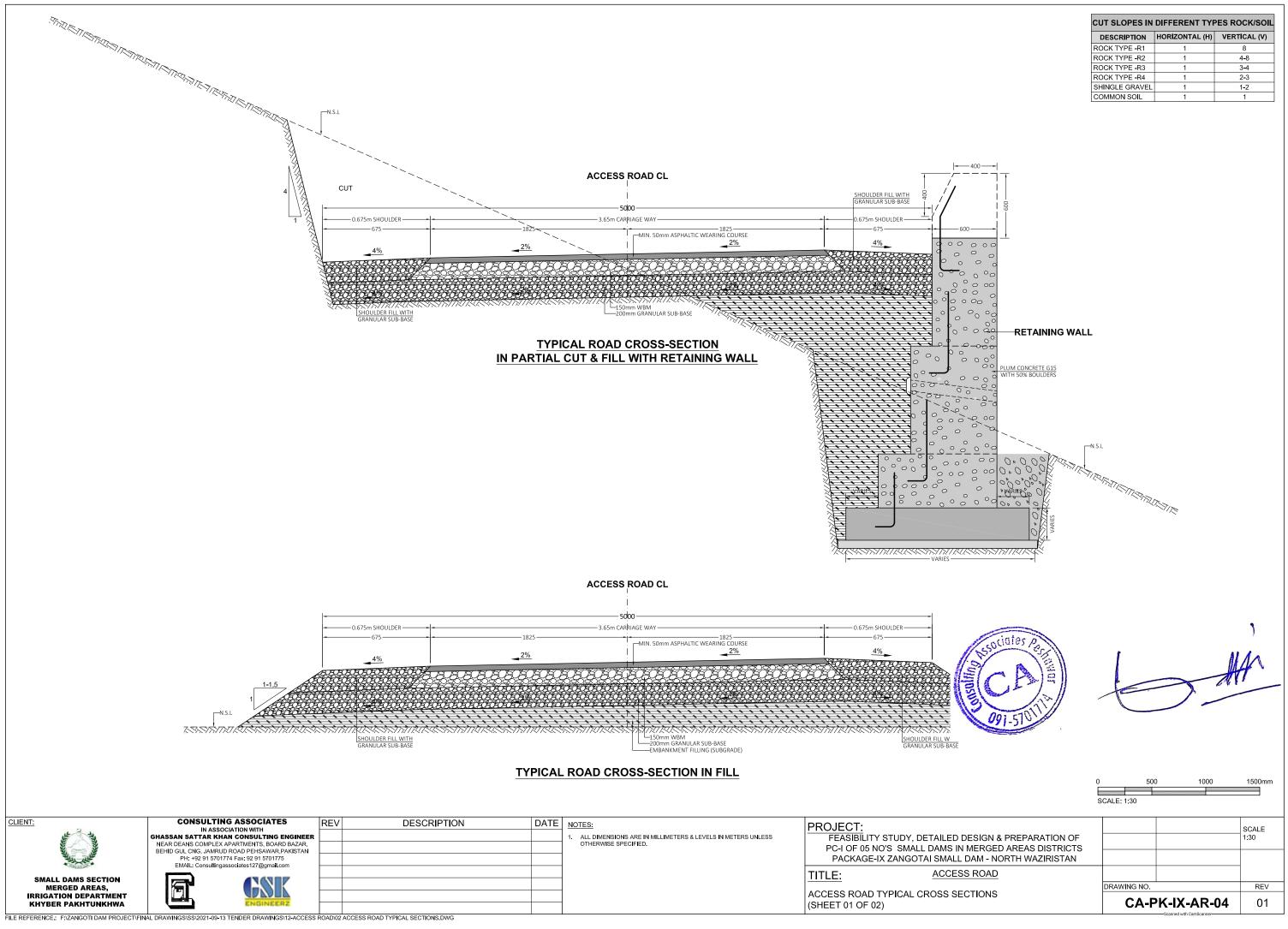
FILE REFERENCE .. F:\ZANGOTI DAM PROJECT\FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\12-ACCESS ROAD\01 ACCESS ROAD PLAN & PROFILE.DWG



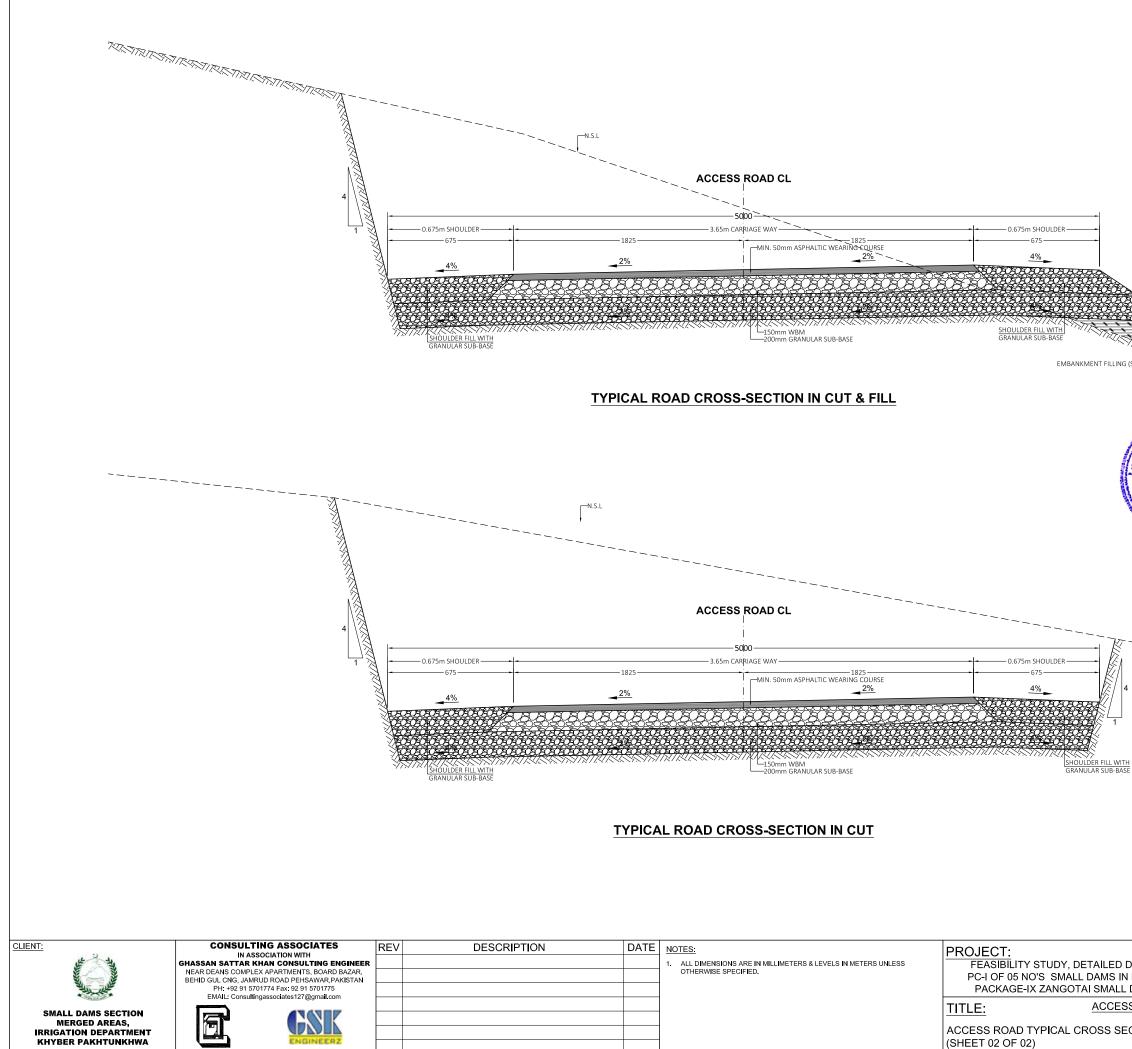


FILE REFERENCE.: F:ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\12-ACCESS ROAD\01 ACCESS ROAD PLAN & PROFILE.DWG

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OQLESSOR N Sociates Prochawar		, Att
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		2000 H) 0 20 40 60 80 100m 1:500 V) 0 5 10 15 20 25m
ESIGN & PREPARATION MERGED AREAS DISTRIC DAM - NORTH WAZIRISTA	CTS	SCALE H = 2000 V = 500
S ROAD		
07		DRAWING NO.   REV     CA-PK-IX-AR-03   01



CUT SLOPES IN DIFFERENT TYPES ROCK/SOIL							
DESCRIPTION	HORIZONTAL (H)	VERTICAL (V)					
ROCK TYPE -R1	1	8					
ROCK TYPE -R2	1	4-8					
ROCK TYPE -R3	1	3-4					
ROCK TYPE -R4	1	2-3					
SHINGLE GRAVEL	1	1-2					
COMMON SOIL	1	1					



FILE REFERENCE: F: ZANGOTI DAM PROJECT: FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\12-ACCESS ROAD\02 ACCESS ROAD TYPICAL SECTIONS.DWG

	SHINGLE GRAVEL	1	1-2
	COMMON SOIL	1	1
1-1.5			
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	0 50	0 1000	1500mm
	SCALE: 1:30		
			SCALE 1.30
SIGN & PREPARATION OF			1:30
ERGED AREAS DISTRICTS			
ERGED AREAS DISTRICTS AM - NORTH WAZIRISTAN			
ERGED AREAS DISTRICTS AM - NORTH WAZIRISTAN			1:30
SIGN & PREPARATION OF ERGED AREAS DISTRICTS M - NORTH WAZIRISTAN ROAD	DRAWING NO.		1:30
ERGED AREAS DISTRICTS AM - NORTH WAZIRISTAN		PK-IX-AR-	1:30

CUT SLOPES IN DIFFERENT TYPES ROCK/SOIL DESCRIPTION HORIZONTAL (H) VERTICAL (V)

4-8

3-4

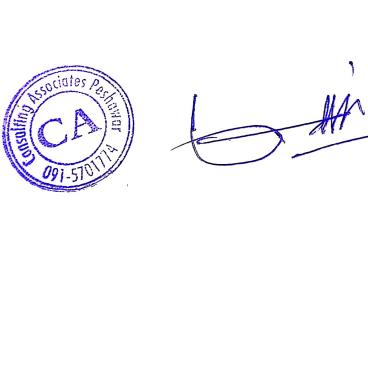
2-3

ROCK TYPE -R1 ROCK TYPE -R2

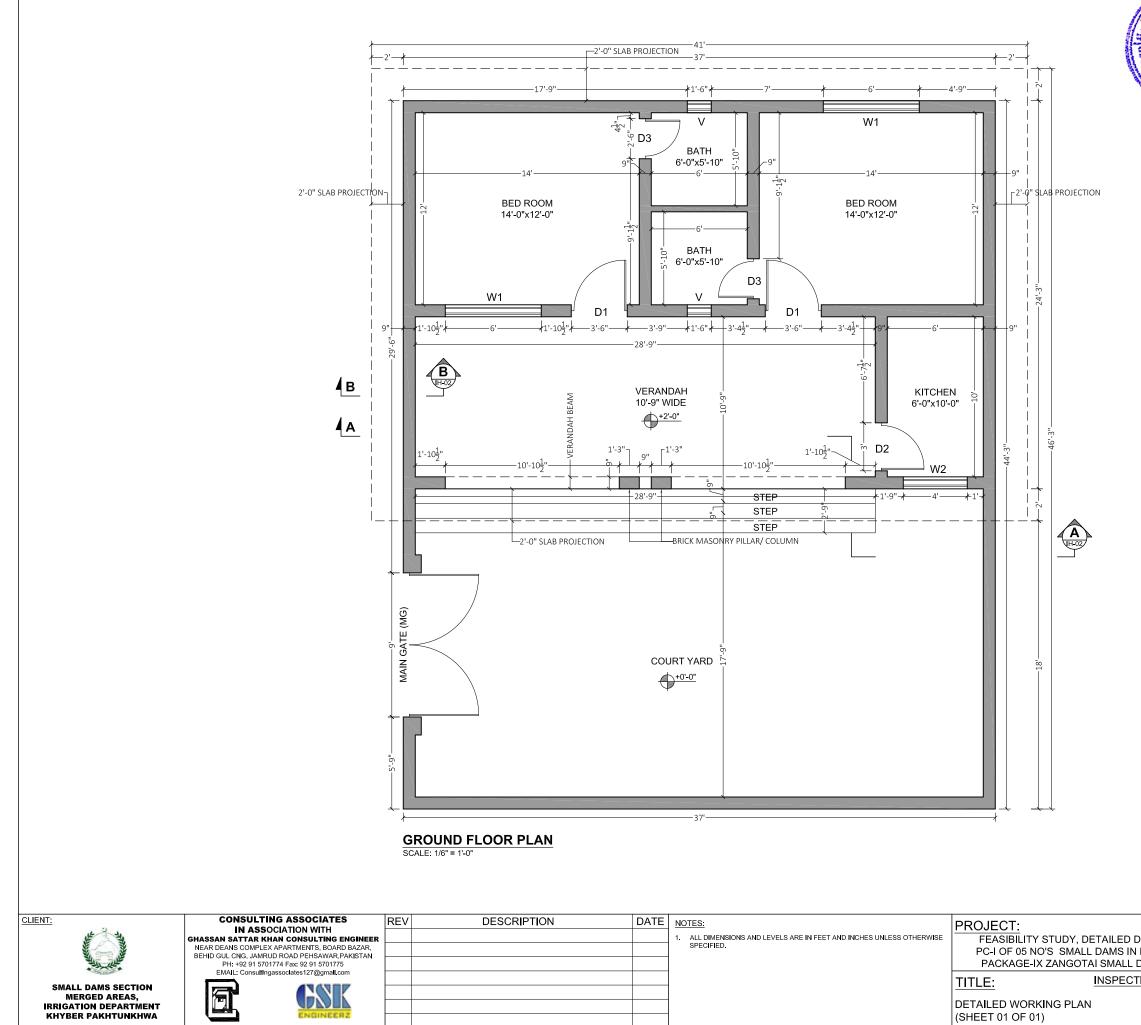
ROCK TYPE -R3

ROCK TYPE -R4

## **IH-INSPECTION HUT**



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FILE REFERENCE .: F: ZANGOTI DAM PROJECT/FINAL DRAWINGS\SS\2021-09-13 TENDER DRAWINGS\13-INSPECTION HUT/01 INSPECTION HUT/04

0 1 2 4 SCALE: 1/6" = 1'-0"	6 8	10ft	
DESIGN & PREPARATION OF MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN)			SCALE 1/6" = 1'-0"
TION HUT	DRAWING NO.		REV
		PK-IX-IH-01	01
	•		

1.	D1	3-6"x7'-0"			
2.	D2	3-0"x7'-0"			
3.	D3	2-6"x7'-0"			
4.	W1	6-0"x4'-6"			
5.	W2	4-0"x4'-6"			
6.	V	1-6"x1'-6"			
7.	MG	9-0"x8'-0"			
	SCHEDULE OF AREA (SFT)				

1637.250

1158.250

666.000

1. TOTAL PLOT AREA

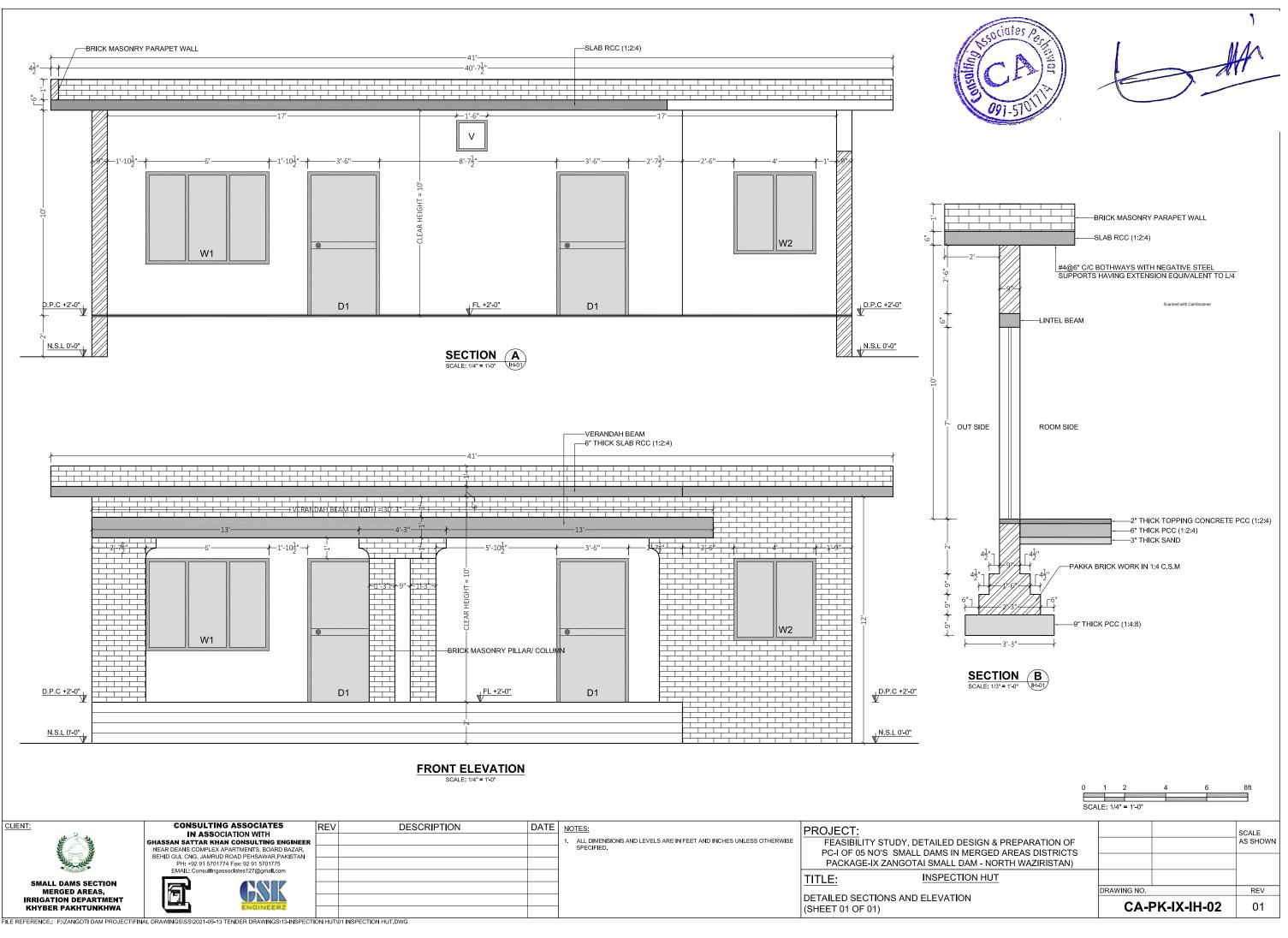
3. TOTAL OPEN AREA

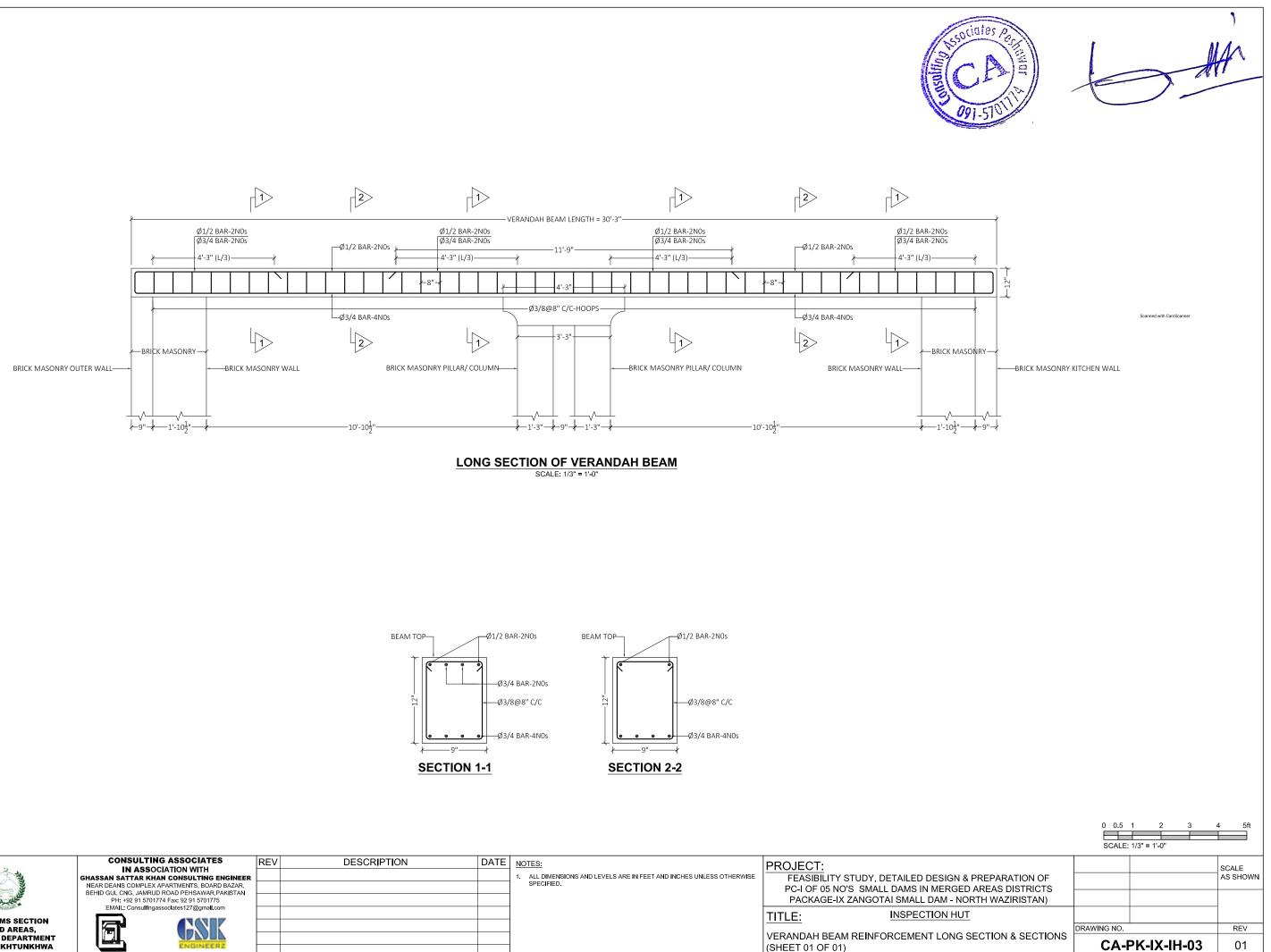
2. TOTAL COVERED AREA

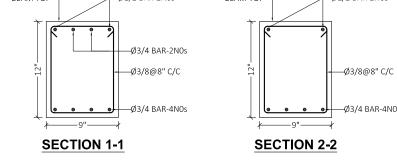
SCH	EDULE OF DOOR	AND WINDOWS
S.NO	TYPE	SIZE
1.	D1	3-6"x7'-0"
2.	D2	3-0"x7'-0"
3.	D3	2-6"x7'-0"
4.	W1	6-0"x4'-6"
5.	W2	4-0"x4'-6"
6.	V	1-6"x1'-6"



Scanned with CamScanner

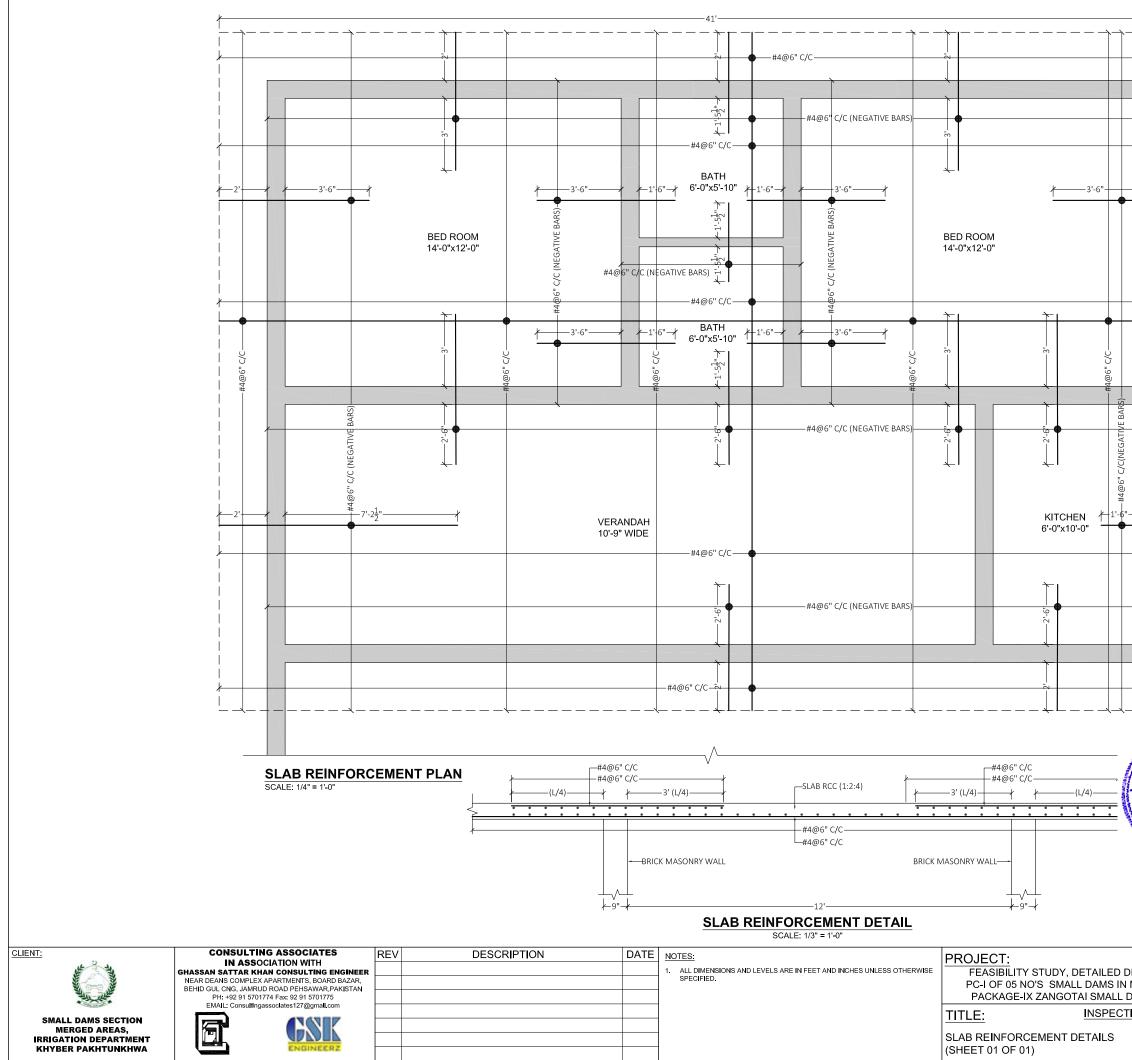






CLIENT:	CONSULTING ASSOCIATES IN ASSOCIATION WITH	REV	DESCRIPTION	DATE	NOTES:	PROJECT:
All and a state	GHASSAN SATTAR KHAN CONSULTING ENGINEER				1. ALL DIMENSIONS AND LEVELS ARE IN FEET AND INCHES UNLESS OTHERWISE SPECIFIED.	FEASIBILITY STUDY, DETAILED DE
	NEAR DEANS COMPLEX APARTMENTS, BOARD BAZAR, BEHID GUL CNG, JAMRUD ROAD PEHSAWAR,PAKISTAN PH: +92 91 5701774 Fax: 92 91 5701775			_		PC-I OF 05 NO'S SMALL DAMS IN N PACKAGE-IX ZANGOTAI SMALL D
	EMAIL: Consultingassociates127@gmail.com				-	
SMALL DAMS SECTION MERGED AREAS,						TITLE: INSPECTION
IRRIGATION DEPARTMENT	ENGINEERZ					VERANDAH BEAM REINFORCEMENT
KHYBER PAKHTUNKHWA	ENGINEERZ					(SHEET 01 OF 01)

FILE REFERENCE. F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/13-INSPECTION HUT/01 INSPECTION HUT.DWG



FILE REFERENCE .: F: ZANGOTI DAM PROJECT/FINAL DRAWINGS/SS/2021-09-13 TENDER DRAWINGS/13-INSPECTION HUT/01 INSPECTION HUT/04

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ssociates per	t A	IA.
		A
091-5701		
0	1 2 4 6	8ft
SCA	LE: 1/4" = 1'-0"	
DESIGN & PREPARATION OF		SCALE AS SHOWN
MERGED AREAS DISTRICTS DAM - NORTH WAZIRISTAN)		
TION HUT	DRAWING NO.	REV
	CA-PK-IX-IH-04	01
	ounnee still (eithachnig)	