

# GOVERNMENT OF KHYBER PAKHTUNKHWA IRRIGATION DEPARTMENT



## INCREASING STORAGE CAPACITY AND IMPROVEMENT IN COMMAND AREA OF TANDA DAM DISTRICT KOHAT

### TENDER DRAWINGS (VOLUME-II)

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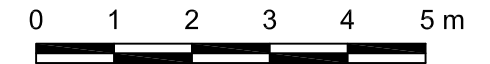
 **CASCADE GROUP  
OF ENGINEERING & CONSULTANTS**

IN ASSOCIATION WITH:

 **ENGINEERING & TECHNICAL ASSOCIATES**

**INCREASING STORAGE CAPACITY AND IMPROVEMENT IN COMMAND AREA OF  
TANDA DAM (DISTRICT KOHAT)  
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SCALE

**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
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 **RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
 **CASCADE GROUP OF  
ENGINEERING & CONSULTANTS**  
 **ETA** IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**DRAWING INDEX**

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DRG.No:- TND-000 SHEET:- 1 OF 02 SUB SH.-: ----


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<b>BAQI ZAI MINOR</b>			223	TND-2605	DETAILS OF AQUEDUCT BABRI BANDA EXECTION			
181	TND-1801	PLAN AND PROFILE OF BAQI ZAI MINOR(SHEET 01 OF 03)	224	TND-2606	REINFORCEMENT DETAILS OF AQUEDUCT BABRI BANDA EXTENSION			
182	TND-1802	PLAN AND PROFILE OF BAQI ZAI MINOR(SHEET 02 OF 03)	225	TND-2607	EXTENSION OF CROSS SECTION OF BABRI BANDA EXTENSION			
183	TND-1803	PLAN AND PROFILE OF BAQI ZAI MINOR(SHEET 03 OF 03)	<b>MALIK JAN</b>					






SCALE

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KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
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 **IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES**

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**DRAWING INDEX**

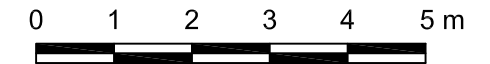
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**INCREASING STORAGE CAPACITY AND IMPROVEMENT IN COMMAND AREA OF  
TANDA DAM (DISTRICT KOHAT)  
SALIENT FEATURE**

RESERVOIR				CONVEYANCE SYSTEM								
S.NO	DESCRIPTION	EXISTING	PROPOSED	S.NO	DESCRIPTION	EXISTING			PROPOSED			
						LENGTH METER	DISCHARGE CUMEC	CCA HECT	LENGTH METER	DISCHARGE CUMEC	CCA HECT	
01	CATCHMENT AREA AT BARRAGE	1470.1 Sq km	1470.1 Sq km									
02	CATCHMENT FLOW OF KOHAT TOI RIVER	92.61144 MCM	92.61144 MCM									
03	TOTAL STORAGE CAPACITY OF RESERVOIR	92.61144 MCM	89.57285 MCM	32	FULL SUPPLY RELEASE		6.08	11440.49		6.66	12296	
04	LIVE STORAGE CAPACITY OF RESERVOIR	79.929504 MCM	88.058137 MCM	33	MAIN CANAL	549.22	6.08	121.86	549.22	6.66	104	
05	DEAD STORAGE CAPACITY OF RESERVOIR	16.281936 MCM	1.514713 MCM	34	KOHAT BRANCH	5839.07	4.64	338.06	5839.07	5.49	286	
06	SUBMERGENCE AREA/ POUNDAGE	1.985903 MCM	2.214097 MCM	35	GANDIALLY DISTRY	17344.40	3.03	1636.03	17344.41	2.26	1423	
07	LIFE OF RESERVOIR	50 YEARS	80 YEARS	36	SULEMAN BRANCH	6232.24	0.96	499.19	6232.24	1.06	464	
08	NORMAL RESERVOIR LEVEL	EL:527.27 Amsl	EL:531.500 Amsl	37	KAMAR DAND DISTRY	7701.92	0.27	876.52	9103.93	0.55	1021	
09	MAXIMUM RESERVOIR LEVEL	EL:529.411 Amsl	EL:532.500 Amsl	38	CHAMBAL DISTRY	4190.79	0.27	338.46	4190.79	0.17	313	
<b>MAIN DAM</b>				39	CHAMBAL MINOR	1060.65	0.15	174.90	1060.65	0.09	165	
10	CREST LENGTH	621.76 m	648 m	40	KHARMATU DISTRY	9294.42	0.96	1612.55	9294.42	1.74	1474	
11	TOP LEVEL	EI: 531.85 Amsl	EI: 535.40 Amsl	41	FATEH KHAN BANDA	1514.17	0.36	512.15	1514.17	0.24	453	
12	MAXIMUM HEIGHT	35.05 m	39.90 m	42	DITCH MINOR	701.00	0.17	348.18	701.00	0.11	315	
13	TOP WIDTH	9.14 m	9.14 m	43	JARMA DISTRY	7160.92	0.48	1018.22	7160.92	0.96	1006	
14	MAXIMUM BASE WIDTH	248.39 m	248.39 m	44	JARMA SUB MINOR	1920.14	0.12	578.95	1920.14	0.42	777	
<b>SPILLWAY</b>				45	BAQI ZAI MINOR	2148.73	0.15	253.85	2148.73	0.12	229	
15	CREST LEVEL	EL:527.27 Amsl	EL:531.5 Amsl	46	KHARMATU MINOR	2151.78	0.22	621.05	2151.78	0.33	622	
16	CAPACITY	56.6 CUMECS	17 CUMECS	47	BHORA GHARI MINOR	3352.63	0.16	2532.79	4352.63	0.47	885	
<b>DIVERSION SYSTEM (BARRAGE)</b>				48	BAHADAR KOT MINOR	1920.14	0.12	282.19	1920.14	0.13	244	
17	LENGTH OF BARRAGE	148.58 m	NO CHANGE IN PREVIOUS DESIGN	49	TOGH BALA MINOR	944.83	0.16	155.06	944.83	0.081	149	
18	WEIR CREST LEVEL	EL:558.67 Amsl		50	TOGH PAYAN MINOR	1523.92	0.25	526.32	1523.92	0.31	585	
19	MAXIMUM FLOOD DISCHARGE	2265.34 CUMECS		51	BABRI BANDA MINOR	4510.81	0.44	721.46	5710.82	0.58	1083	
20	WEIR GATES (9.1 X 2.4)	11 NO		52	MALIK JAN SUB MINOR	3870.77	0.19	292.71	5120.73	0.37	699	
21	UNDER SLUICE GATES (9.1 X 2.74-1.82)	3 NO										
<b>FEEDER CANAL (LINED)</b>												
22	HEAD REGULATOR GATES 9.1 X 1.82 (UPPER)	3 NO										
23	HEAD REGULATOR GATES 9.1 X 0.91 (LOWER)	3 NO										
24	CREST LEVEL (R.L)	EL:559.28 Amsl										
25	DISCHARGE CAPACITY	85 CUMECS										
26	VELOCITY AT FULL SUPPLY DEPTH	3.04 m/sec										
27	LENGTH OF FEEDER CANAL	1462.96 m										
<b>INLET TUNNEL</b>												
28	DIAMETER OF TUNNEL	3.04 m										
29	BED SLOPE	1 IN 25										
30	LENGTH	259.06 m										
31	CAPACITY	85 CUMECS										



SCALE

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KHYBER PAKHTUNKHWA**

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**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

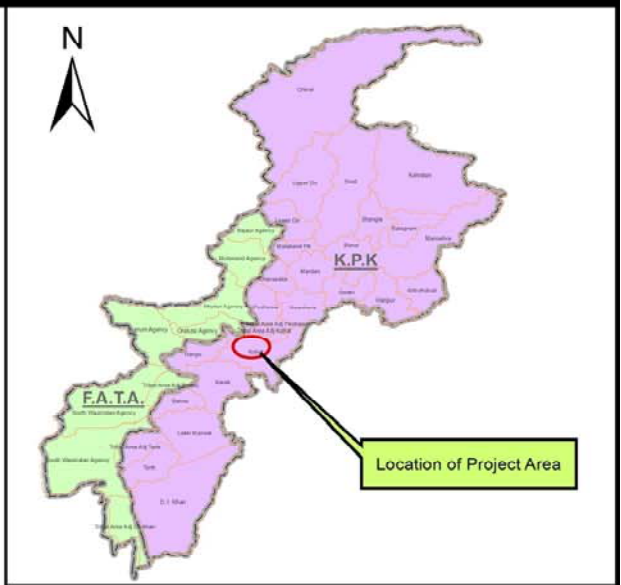
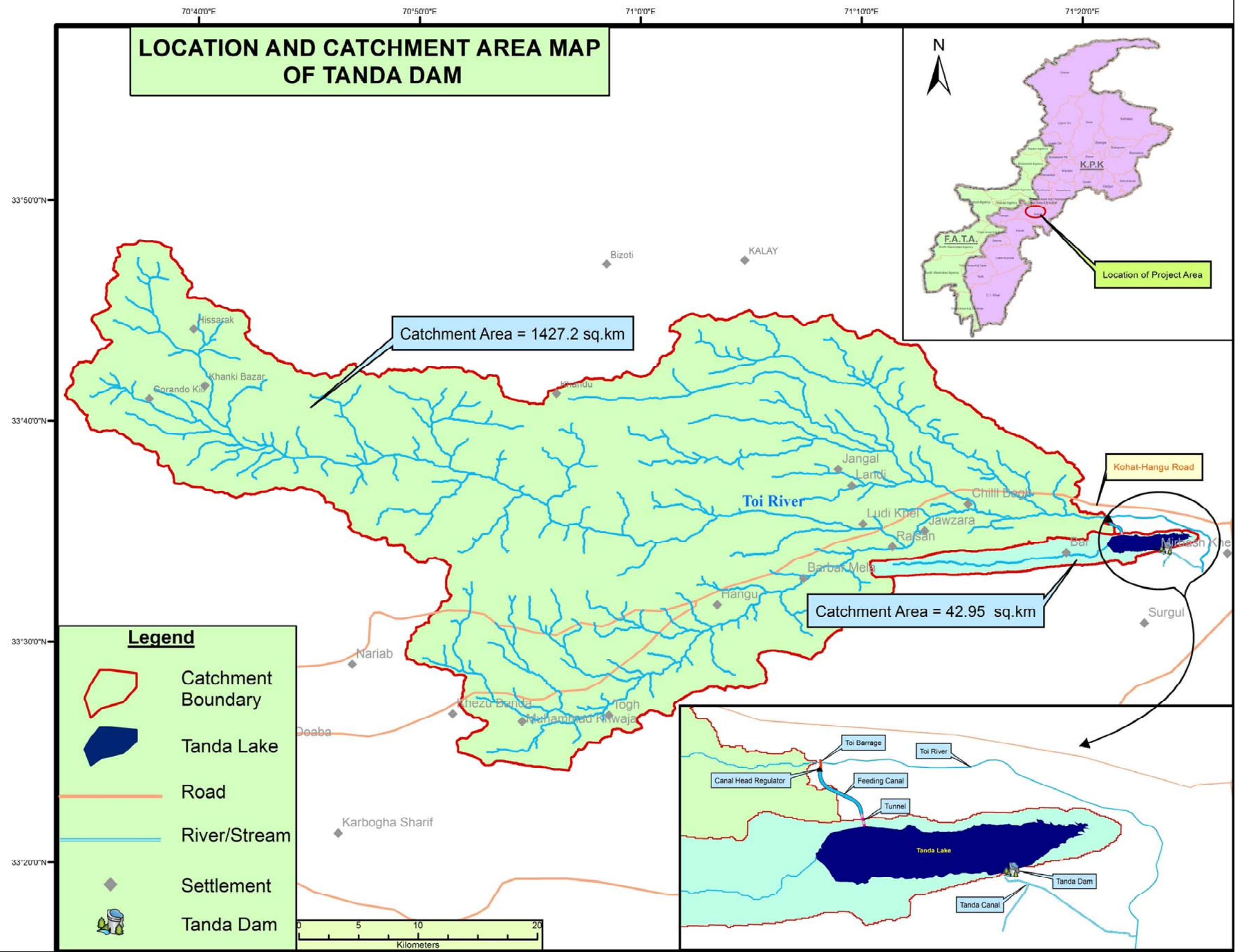
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**SALIENT FEATURE**

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# LOCATION AND CATCHMENT AREA MAP OF TANDA DAM



**Legend**

- Catchment Boundary
- Tanda Lake
- Road
- River/Stream
- Settlement
- Tanda Dam



SCALE

TENDER DRAWING

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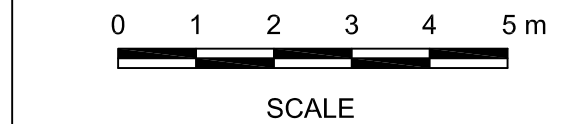
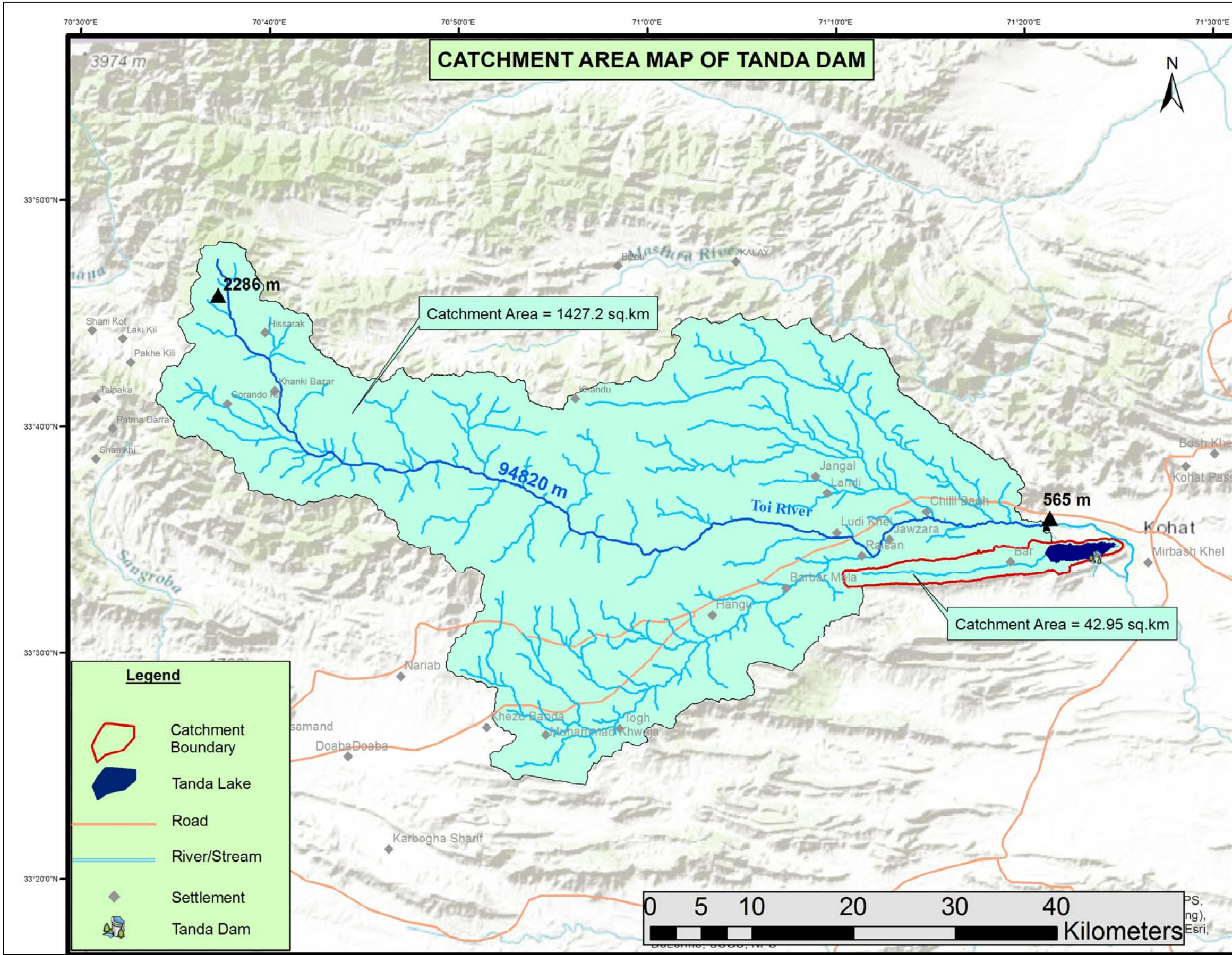
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 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT


TITLE:  
**LOCATION MAP OF PROJECT**


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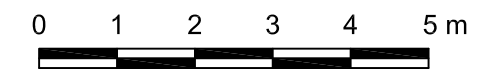
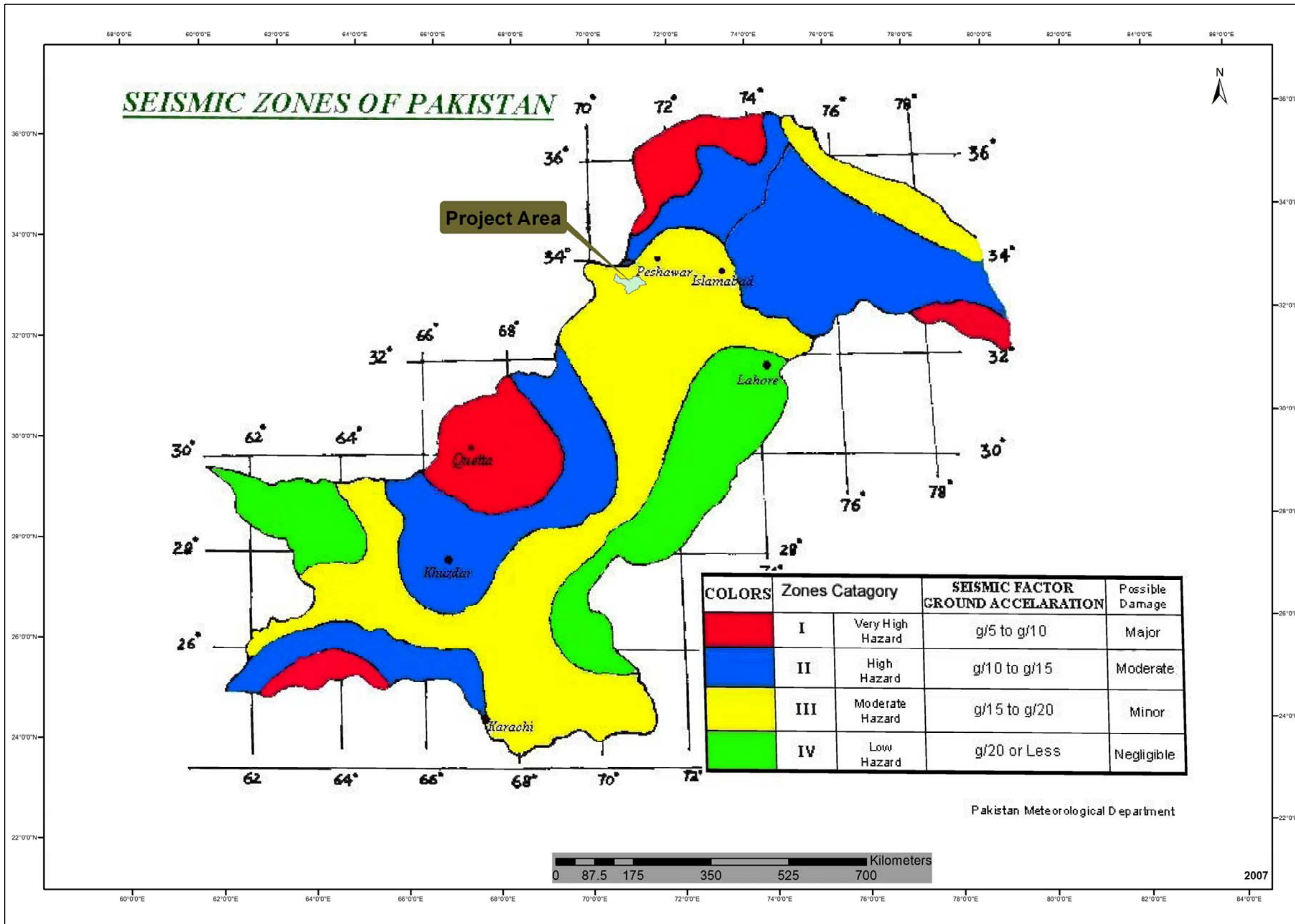
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 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**CATCHMENT AREA MAP OF PROJECT**

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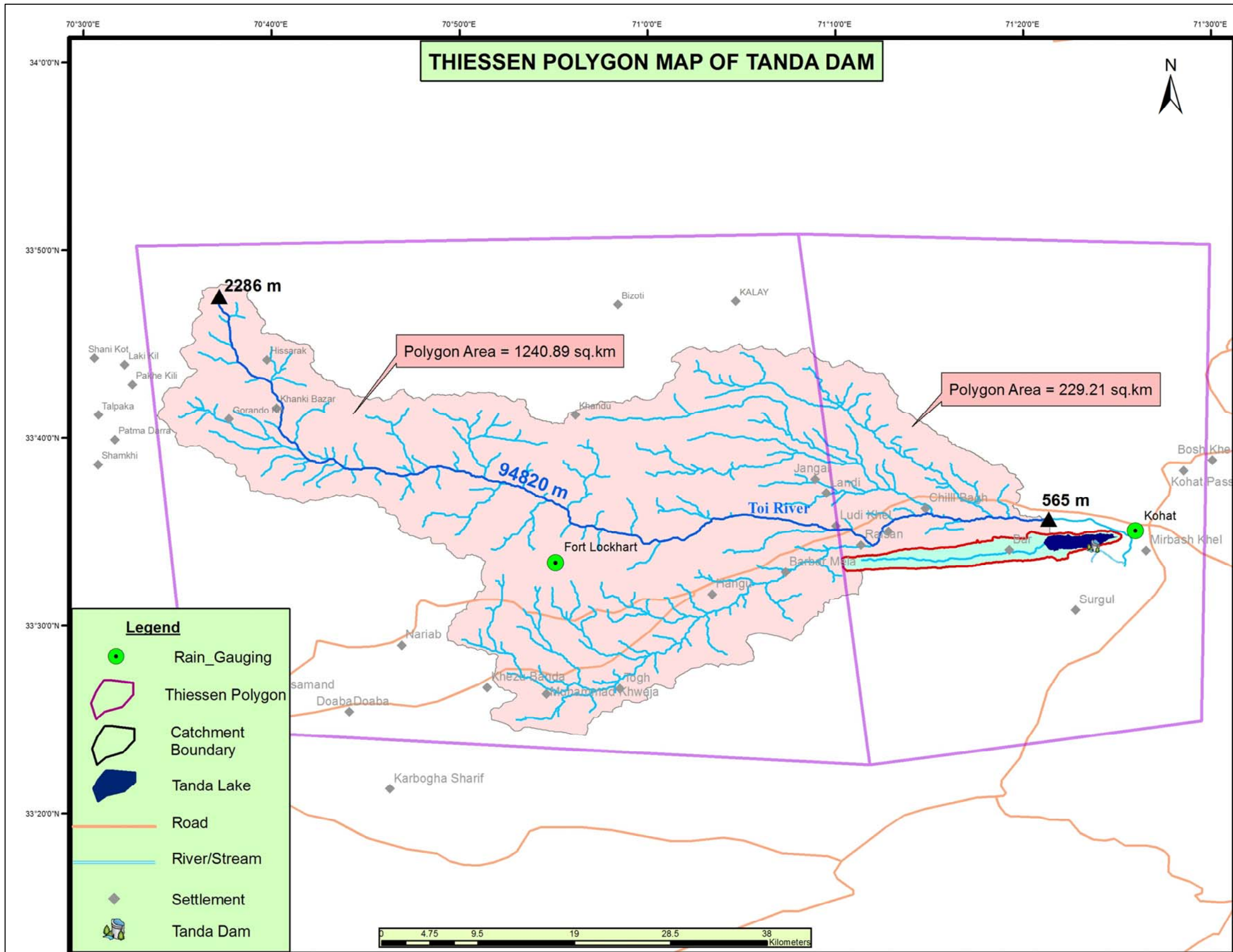
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TITLE: SEISMIC ZONE MAP

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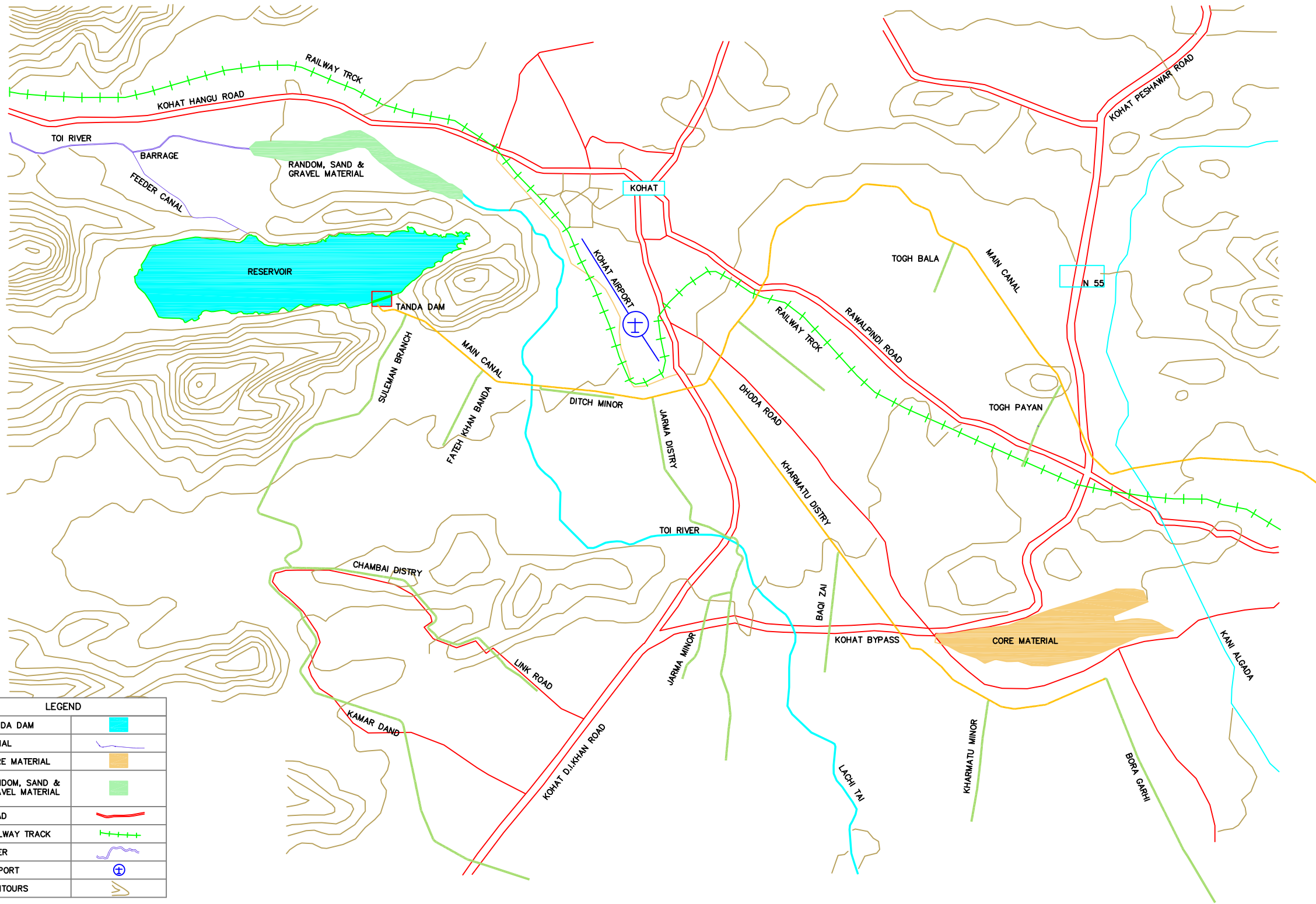
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TITLE:  
**THESSEN POLYGON MAP**

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LEGEND	
TANDA DAM	
CANAL	
CORE MATERIAL	
RANDOM, SAND & GRAVEL MATERIAL	
ROAD	
RAILWAY TRACK	
RIVER	
AIRPORT	
CONTOURS	



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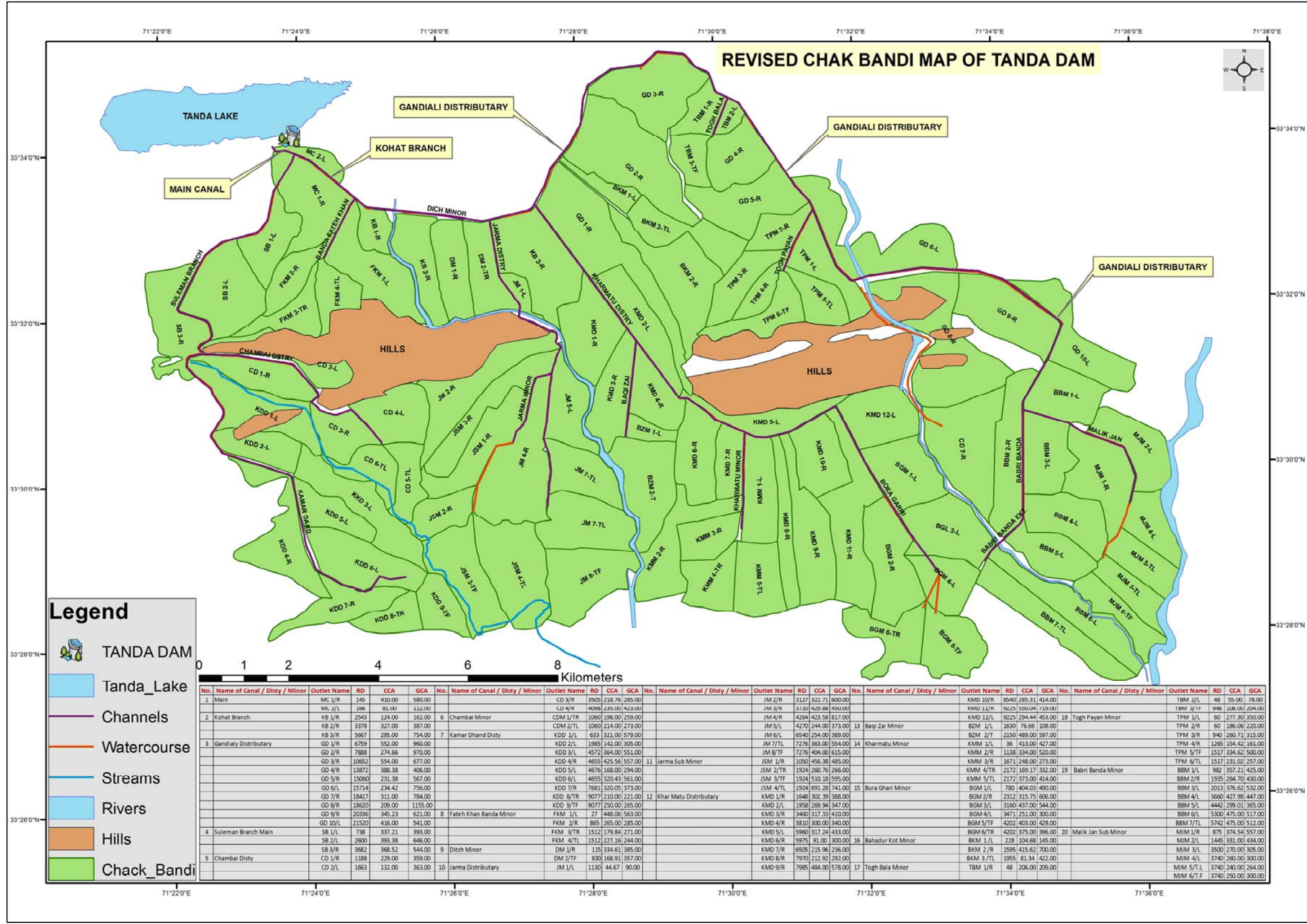
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PROJECT: **CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE: **TANDA DAM BORROW AREA MAP**

DRG.No:- TND-006	SHEET:- 1 OF 01	SCALE	DATE
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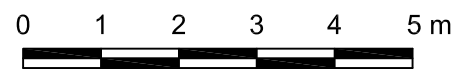
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**Legend**

- TANDA DAM
- Tanda\_Lake
- Channels
- Watercourse
- Streams
- Rivers
- Hills
- Chack\_Bandi

No.	Name of Canal / Disty / Minor	Outlet Name	RD	CCA	GCA	No.	Name of Canal / Disty / Minor	Outlet Name	RD	CCA	GCA	No.	Name of Canal / Disty / Minor	Outlet Name	RD	CCA	GCA	No.	Name of Canal / Disty / Minor	Outlet Name	RD	CCA	GCA		
1	Main	MC 1/R	145	430.00	580.00	6	Chambal Minor	CD 3/R	3505	238.76	285.00	13	Baqi Zai Minor	BZM 1/L	1630	76.66	108.00	19	Babri Banda Minor	BBM 3/L	962	357.21	425.00		
2	Kohat Branch	KB 2/R	2543	124.00	162.00	7	Kamar Dhand Disty	KDD 1/L	633	321.00	579.00	14	Kharmatu Minor	KMM 1/L	36	413.00	427.00	20	Malik Jan Sub Minor	MJM 1/R	875	374.54	557.00		
3	Gandiali Distributary	GD 3/R	6759	552.00	960.00	8	Fateh Khan Banda Minor	FKM 1/L	27	448.06	563.00	15	Bura Ghari Minor	BGM 1/L	1780	404.03	490.00	20	Malik Jan Sub Minor	MJM 2/L	1445	381.00	434.00		
4	Suleman Branch Main	SB 1/L	738	337.21	393.00	9	Ditch Minor	DM 1/R	115	334.61	385.00	16	Bahadur Kot Minor	BKM 2/R	1595	415.62	700.00								
5	Chambal Disty	CD 1/R	1188	229.00	359.00	10	Jarma Distributary	JM 1/L	1130	44.67	90.00	17	Togh Bala Minor	TBM 1/R	48	206.00	209.00								



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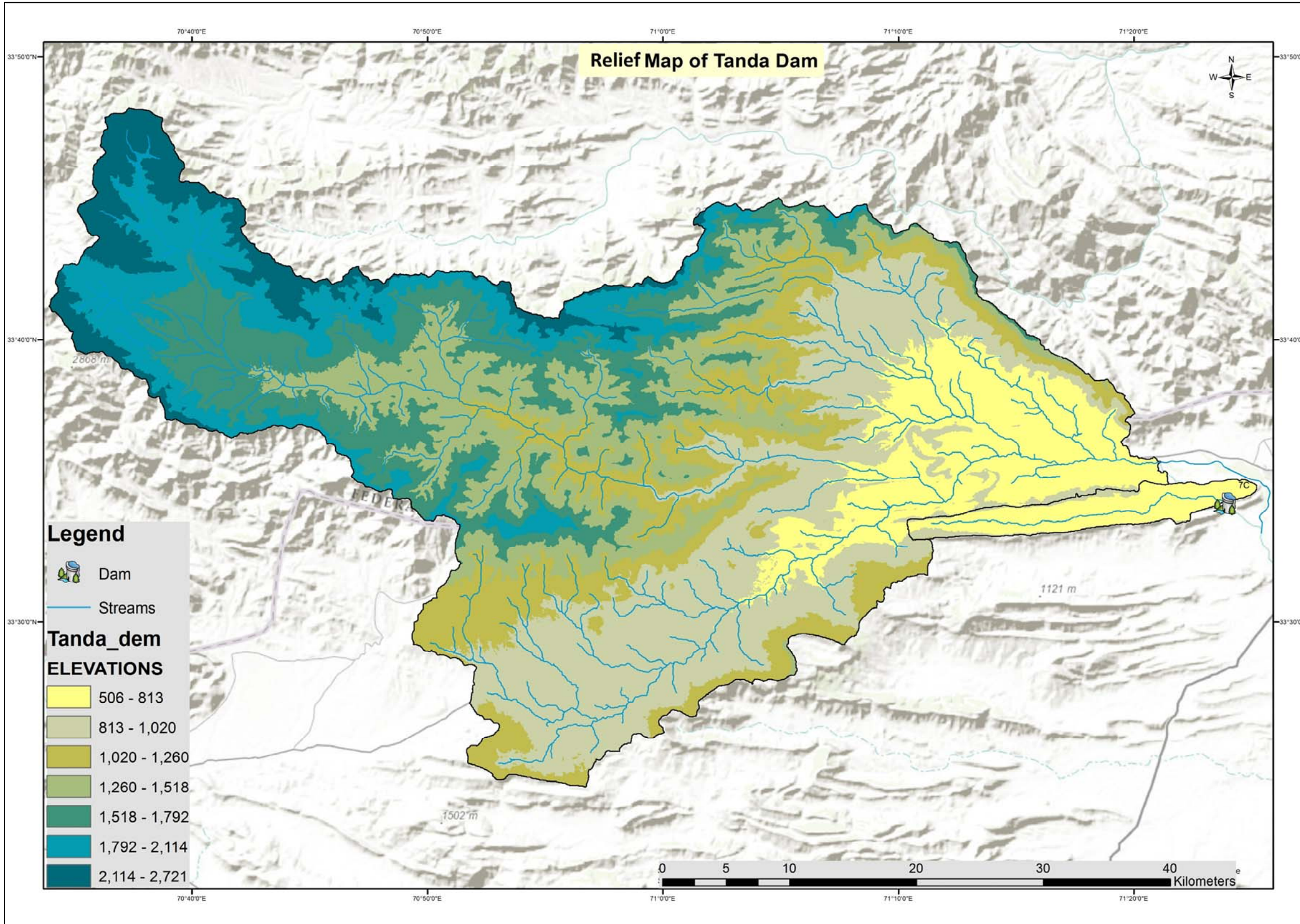
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **REVISIED CHAK BANDI MAP OF PROJECT AREA**

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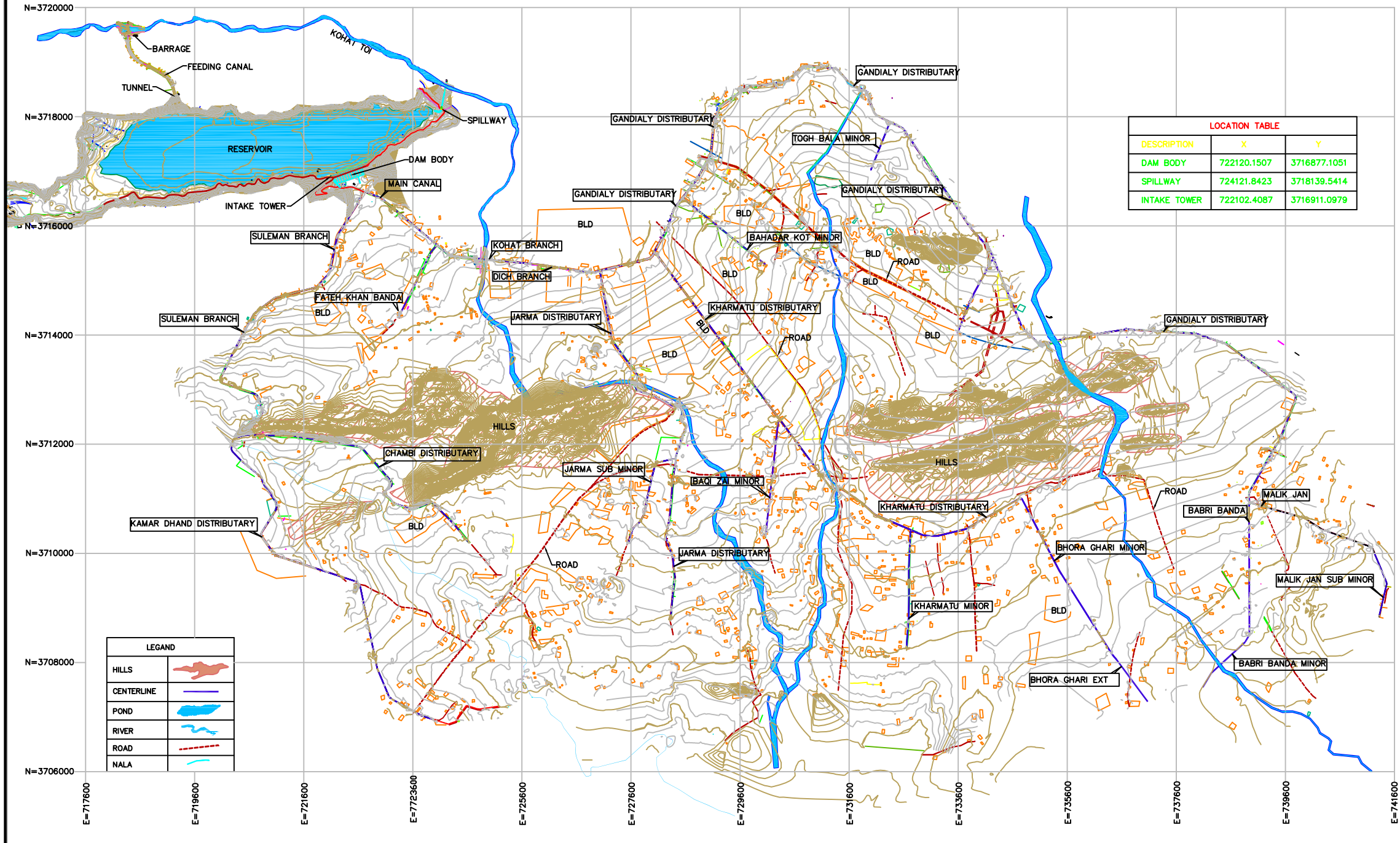
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 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOCHAT

TITLE:  
**RELIEF MAP OF TANDA DAM**


	SCALE	DATE	
	Shown	JANUARY / 2021	
DRG.No:- TND-008	SHEET:- 1 OF 01	SUB SH.-: -	





LOCATION TABLE		
DESCRIPTION	X	Y
DAM BODY	722120.1507	3716877.1051
SPILLWAY	724121.8423	3718139.5414
INTAKE TOWER	722102.4087	3716911.0979



**TENDER DRAWING**

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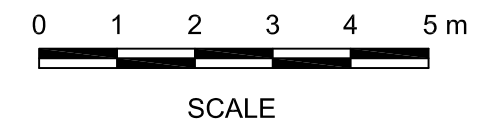
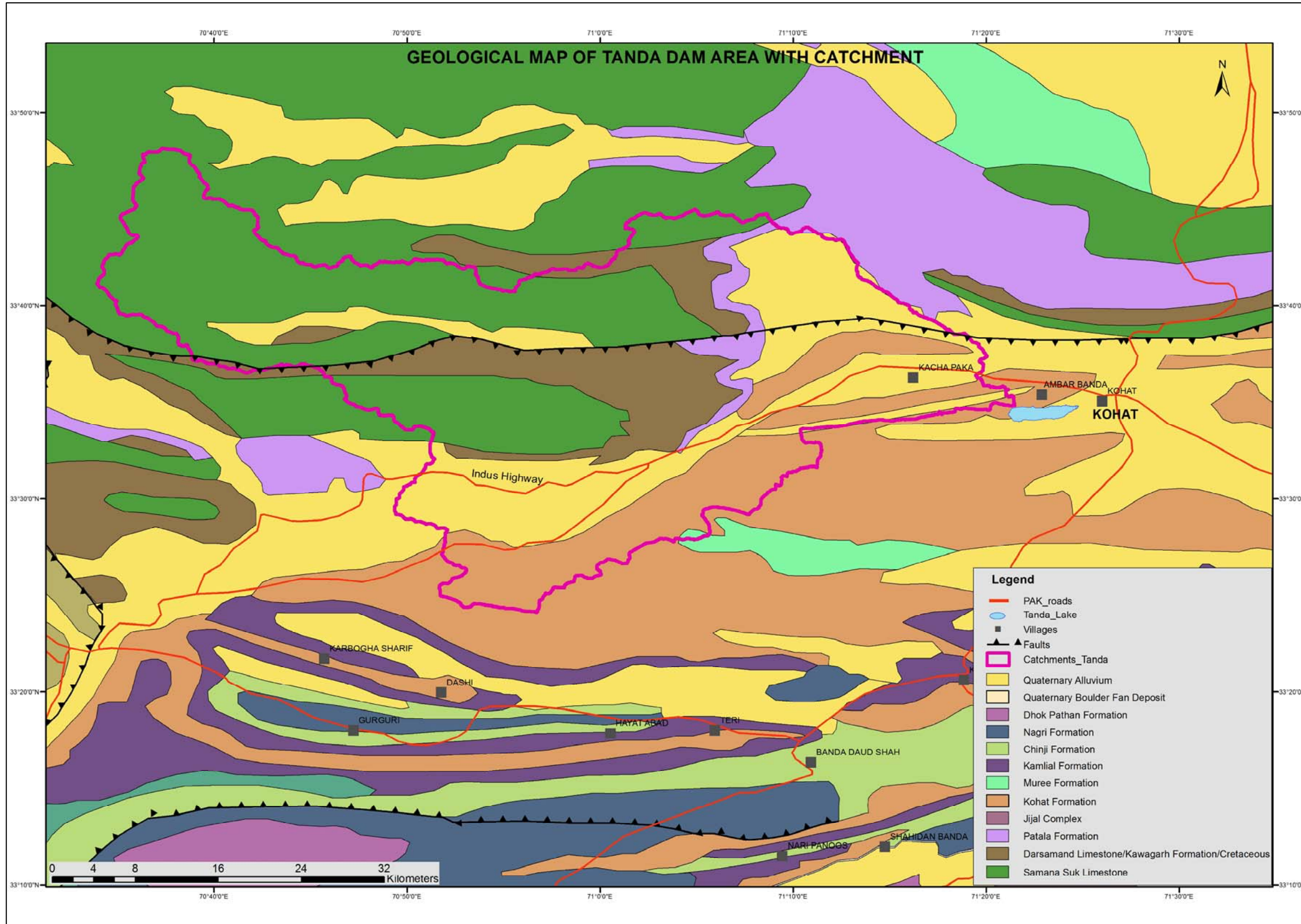
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TITLE:  
**GENERAL LAYOUT PLAN**

SCALE	DATE
Shown	JANUARY / 2021

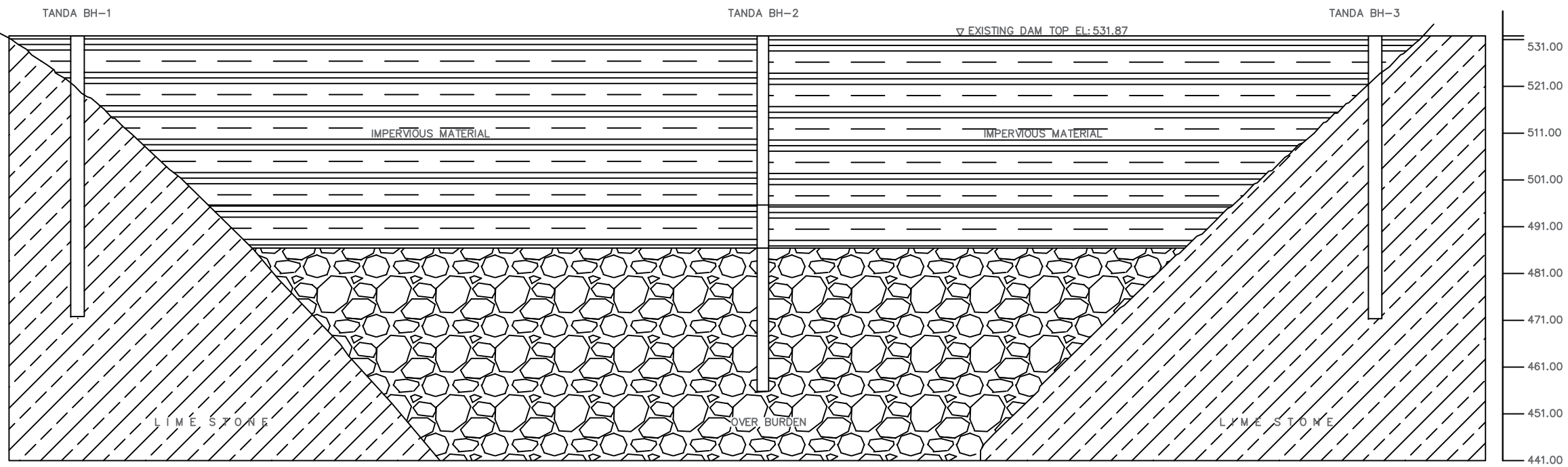
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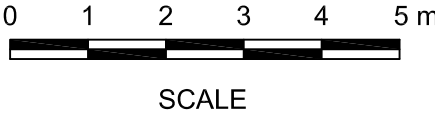
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TITLE:	
<b>GEOLOGICAL MAP</b>	
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CROSS SECTION OF TANDA DAM AXES






TENDER DRAWING

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**KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
 **CAMEOS**

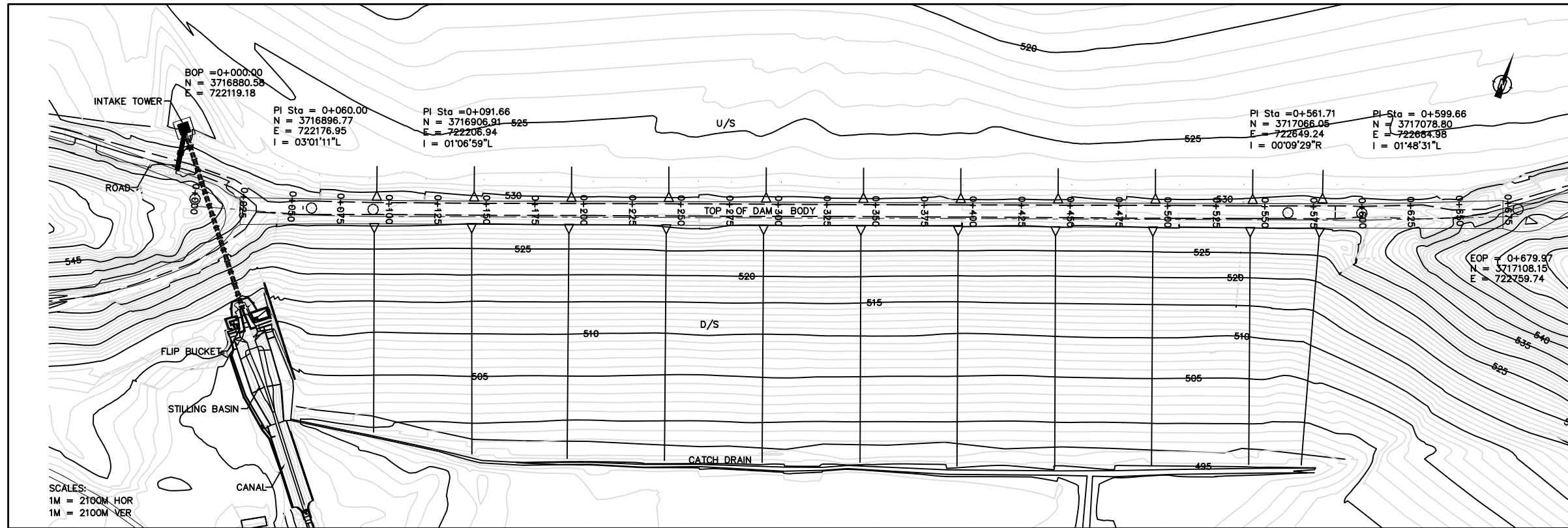
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 **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

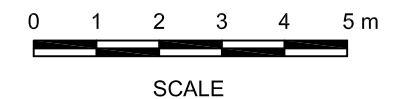
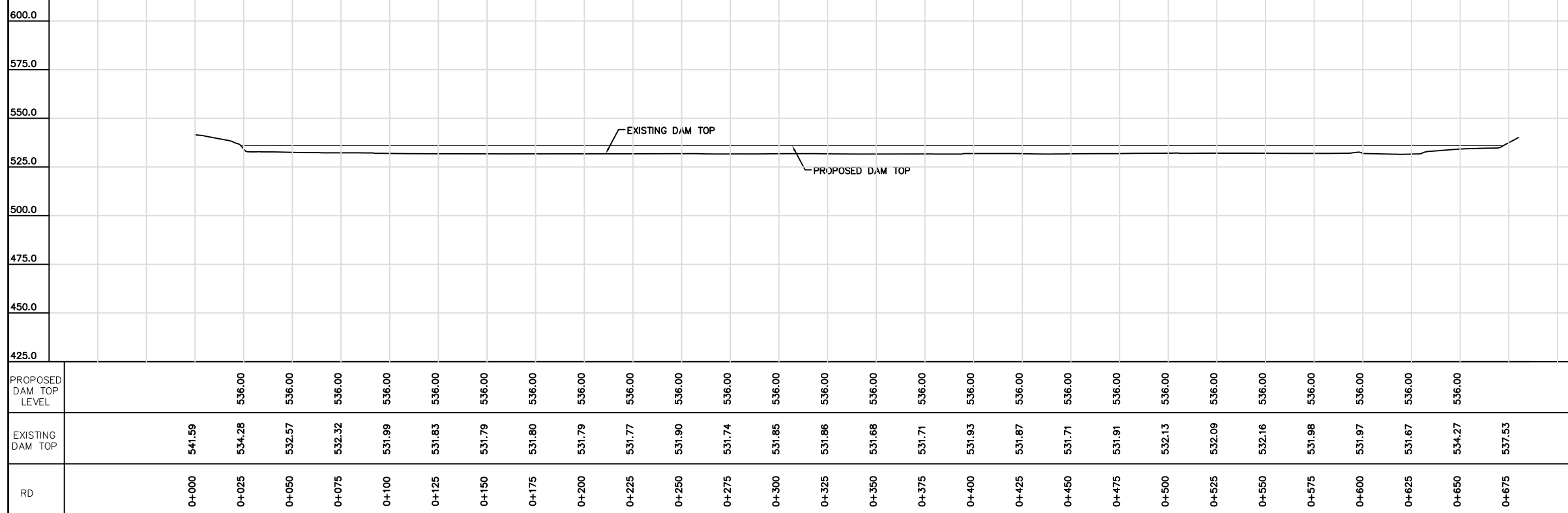
TITLE:  
**GEOLOGICAL CROSS SECTION**

SCALE	DATE
Shown	JANUARY / 2021

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SCALES:  
1M = 2100M HOR  
1M = 2100M VER



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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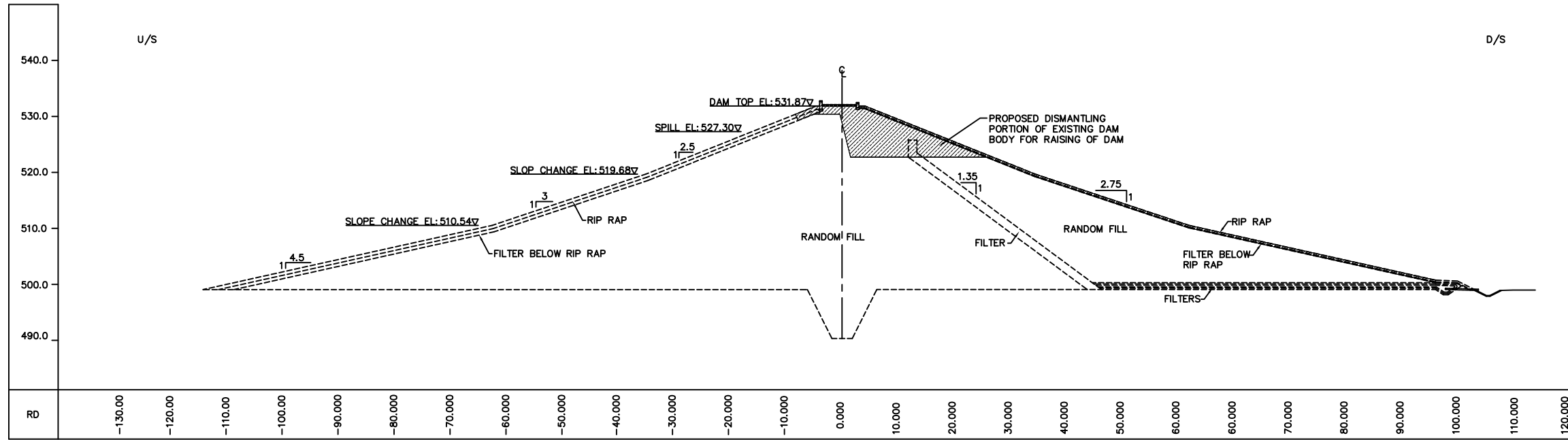
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF DAM BODY**

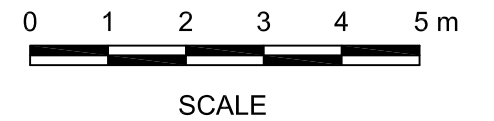
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-201 SHEET:- 1 OF 01 SUB SH:- ----

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TYPICAL CROSS SECTION OF EXISTING DAM BODY  
SCALE: 1:750



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

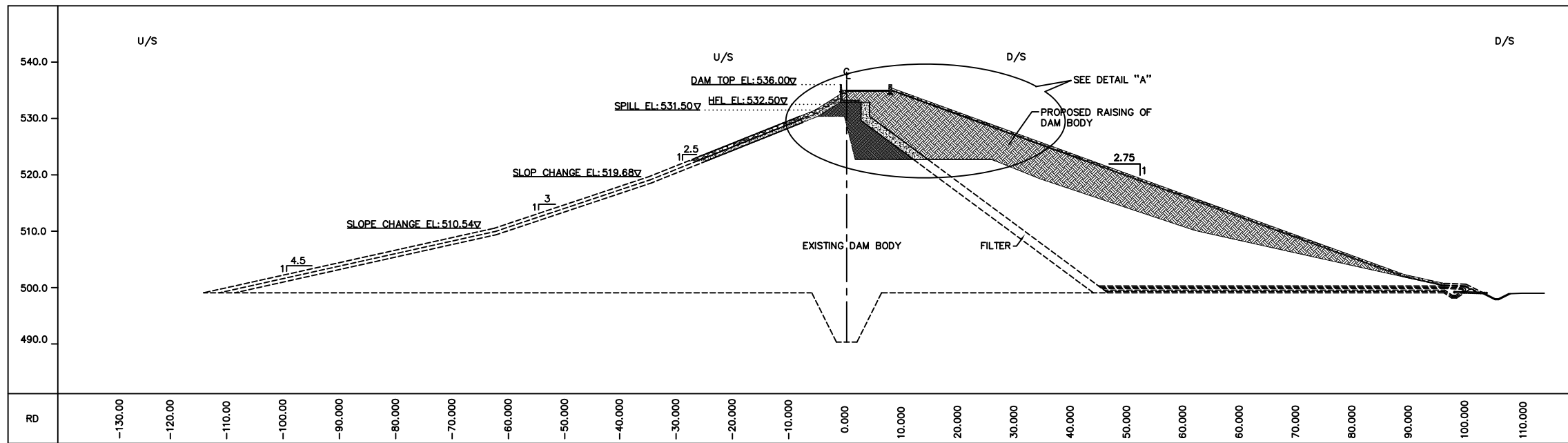
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 OF EXISTING DAM BODY**

SCALE	DATE
Shown	JANUARY / 2021

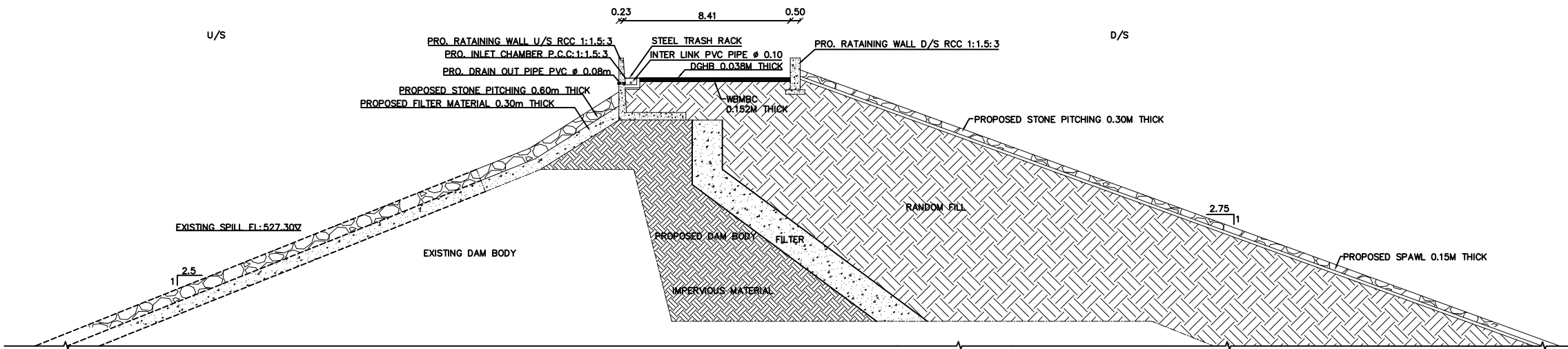
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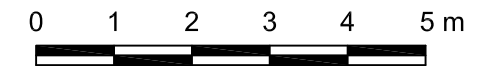
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TYPICAL CROSS SECTION OF PROPOSED RAISING OF DAM BODY  
SCALE: 1: 750



DETAIL "A"  
SCALE: 1: 200




SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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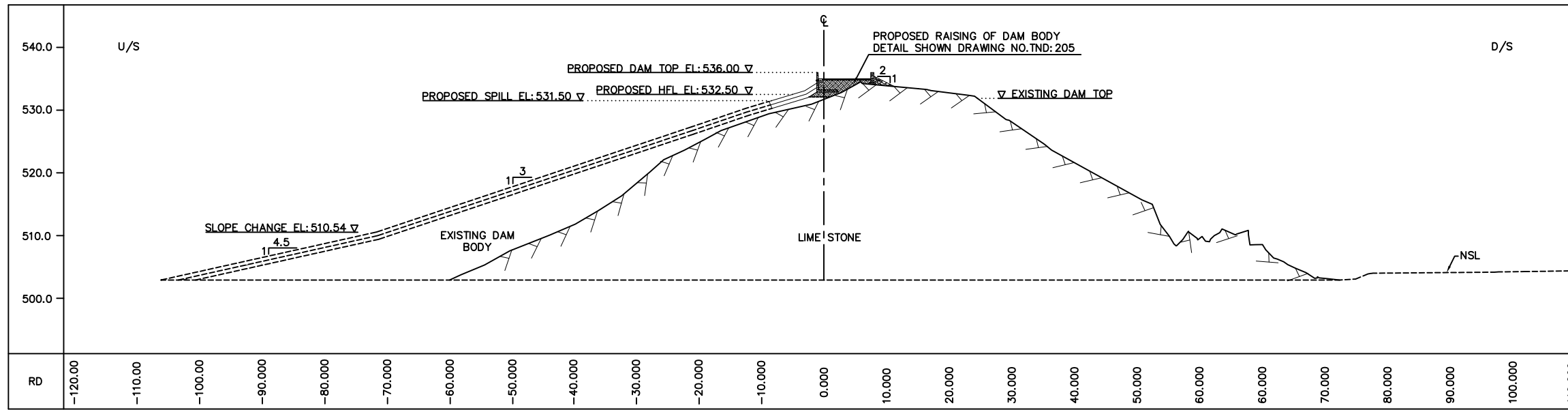
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**TYPICAL CROSS SECTION OF  
 PROPOSED RAISING OF DAM  
 BODY AND DETAIL "A"**

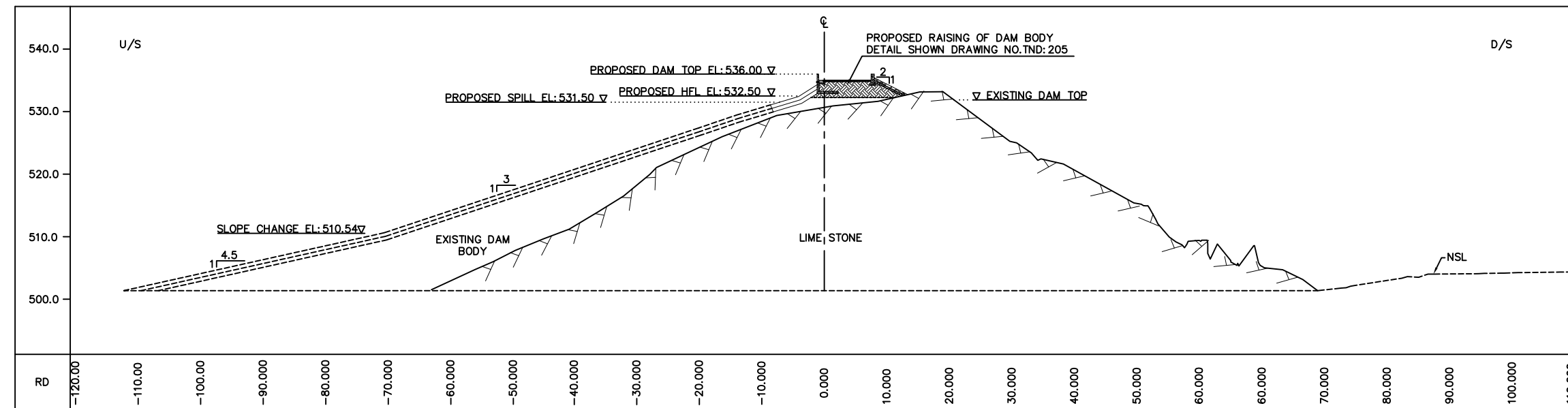
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-203	SHEET:- 1 OF 01	SUB SH.-: -
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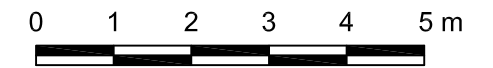
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RD: 0+026




RD: 0+030






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

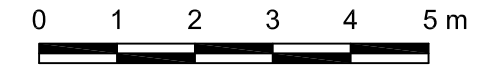
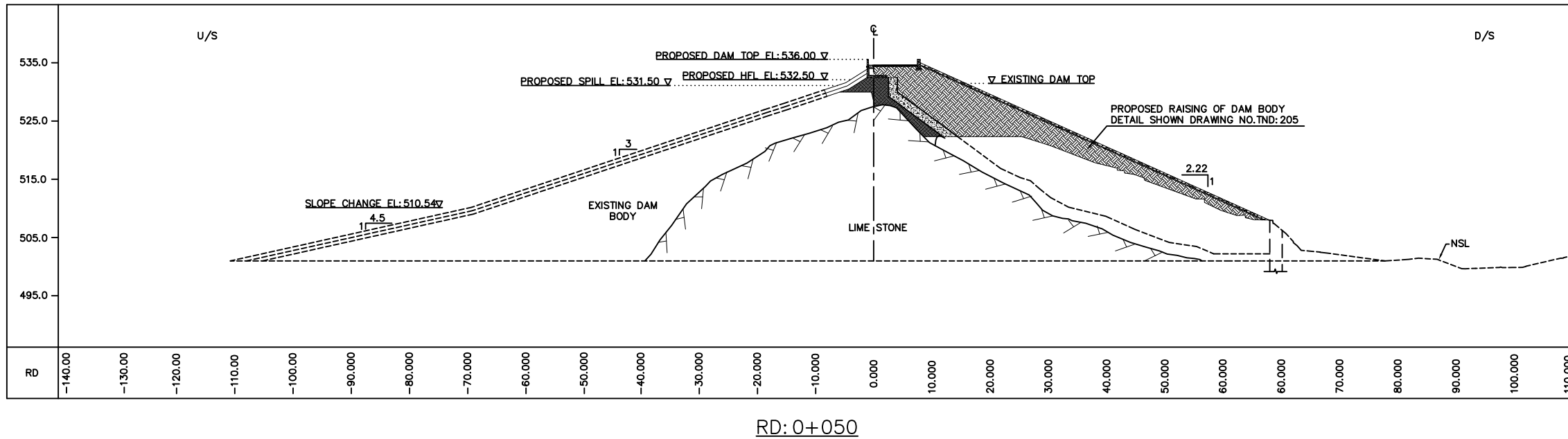
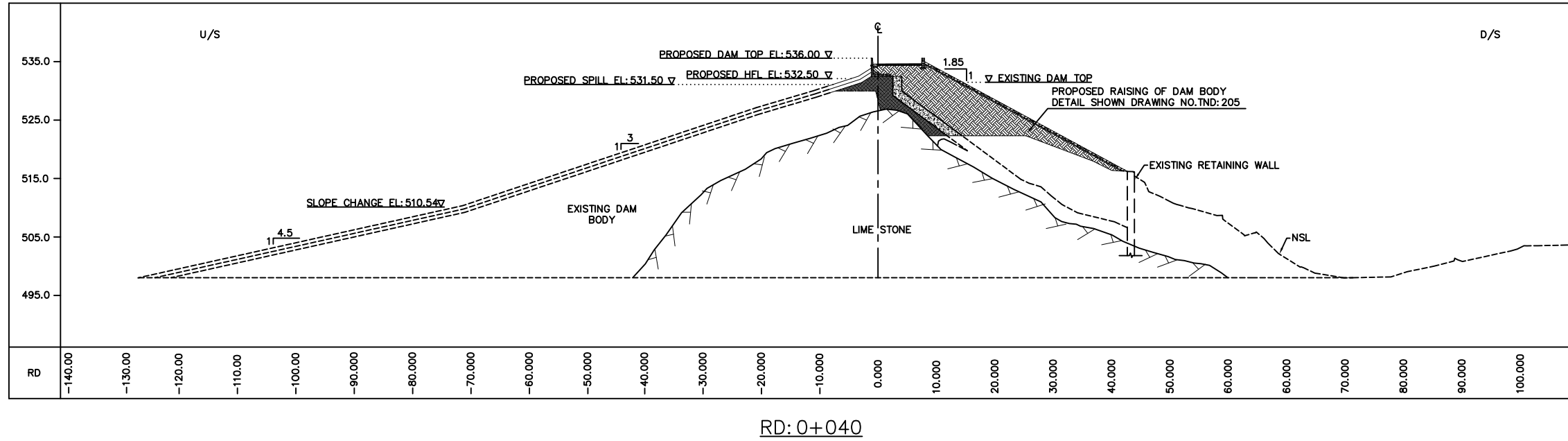
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**CROSS SECTION OF DAM**

DRG.No:- TND-204	SHEET:- 1 OF 01	SCALE	DATE
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		SUB SH.-	----


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FS CONSULTANTS:  CAMEOS

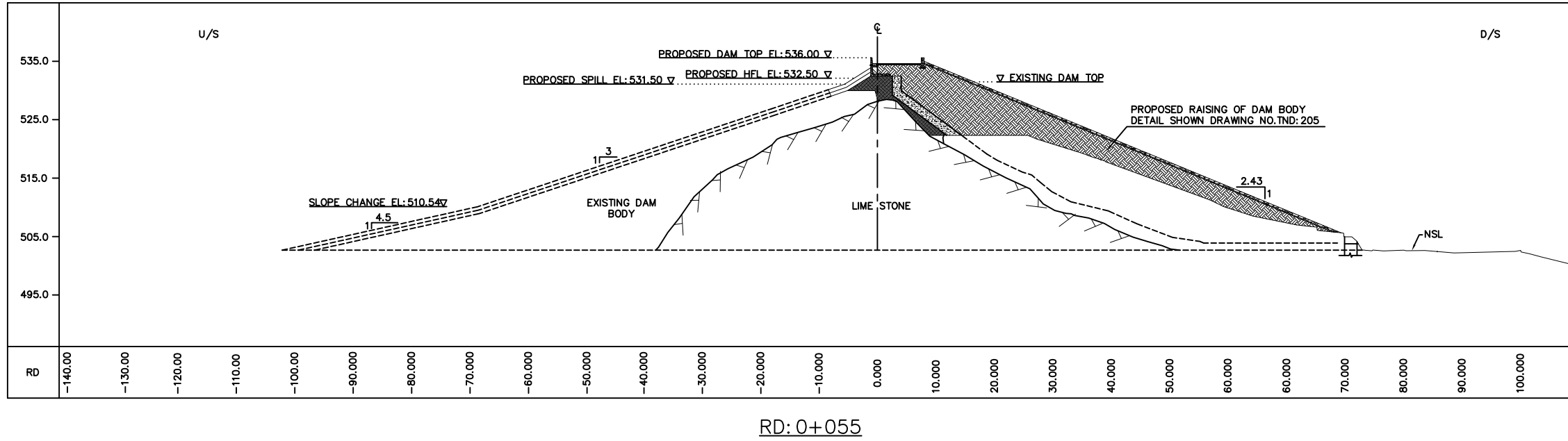
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INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

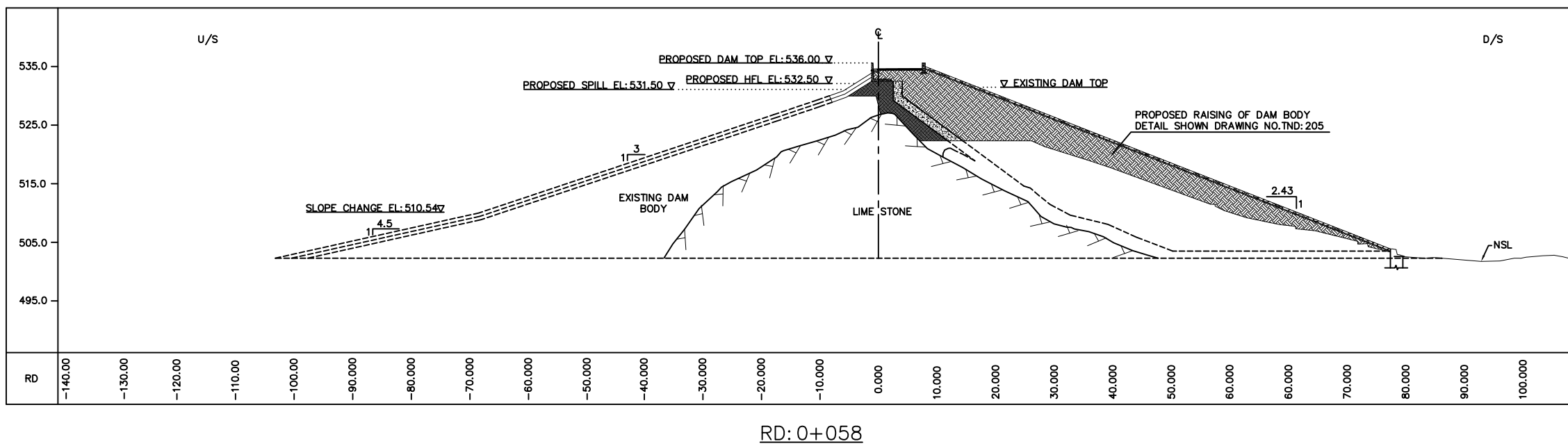
TITLE:  
**CROSS SECTION OF DAM**

DRG.No:- TND-205	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.-	----

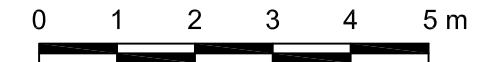
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RD: 0+055



RD: 0+058



SCALE

TENDER DRAWING

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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

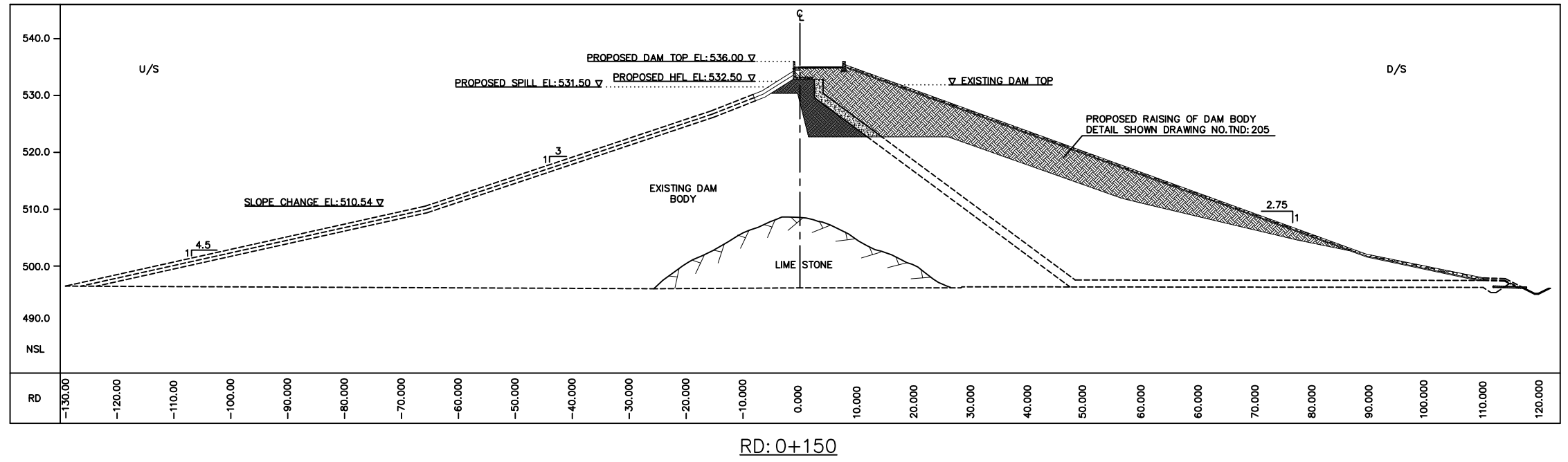
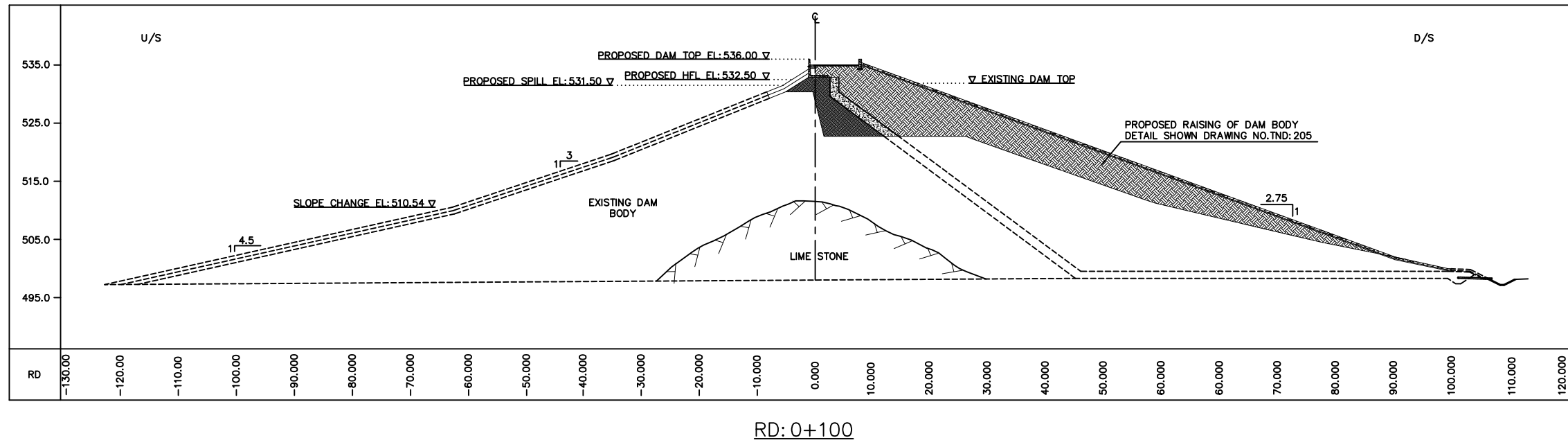
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**CROSS SECTION OF DAM**

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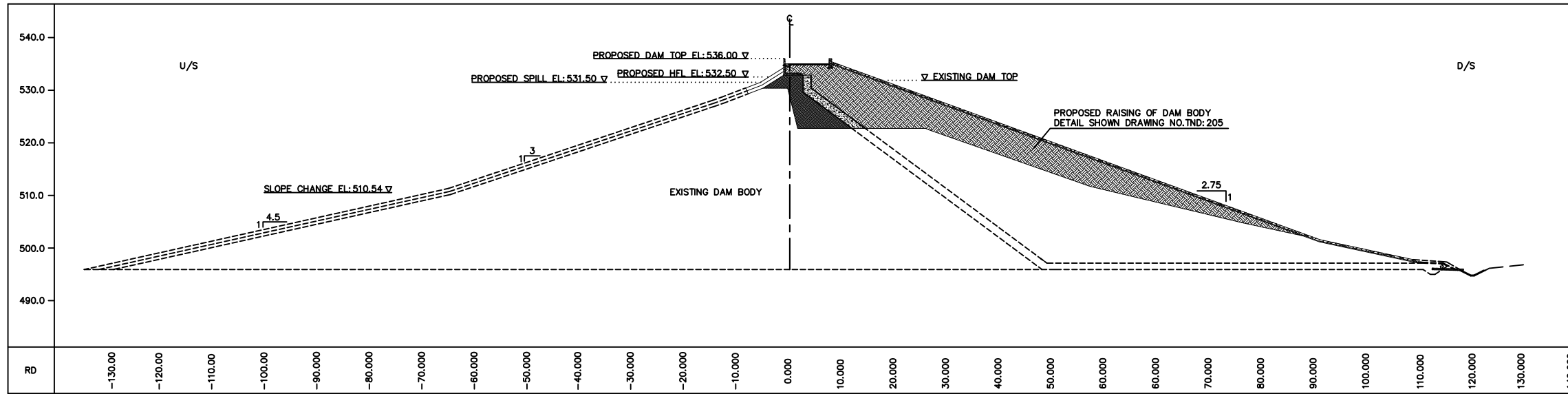
IN ASSOCIATION WITH:  
 ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

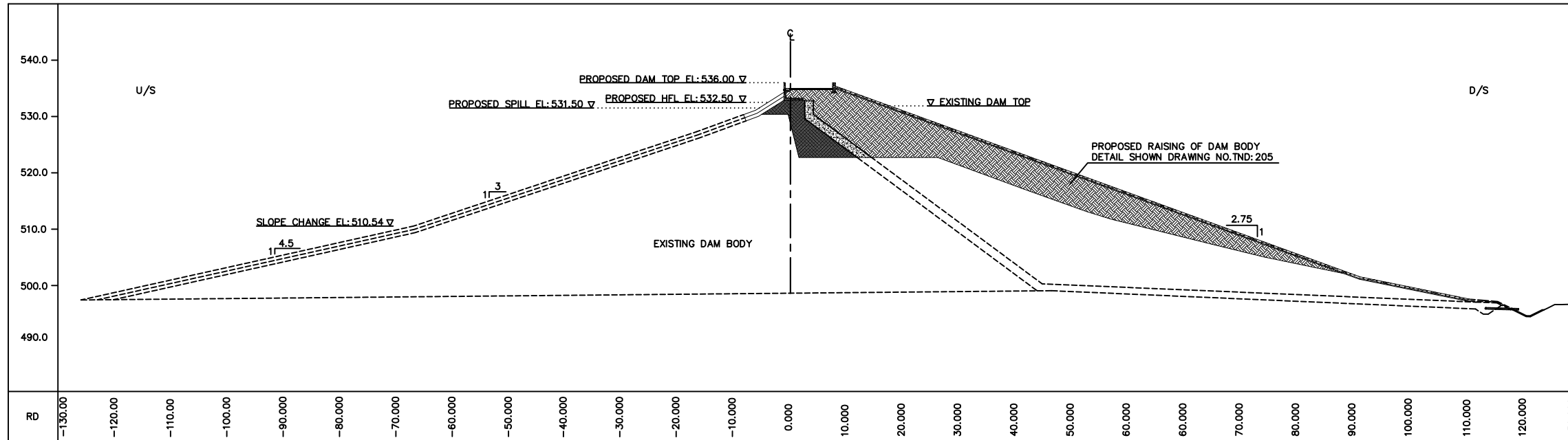
TITLE:  
**CROSS SECTION OF DAM**

DRG.No:- TND-207	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.-	----

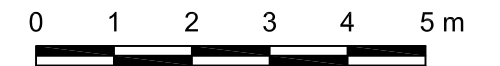
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RD: 0+200




RD: 0+250






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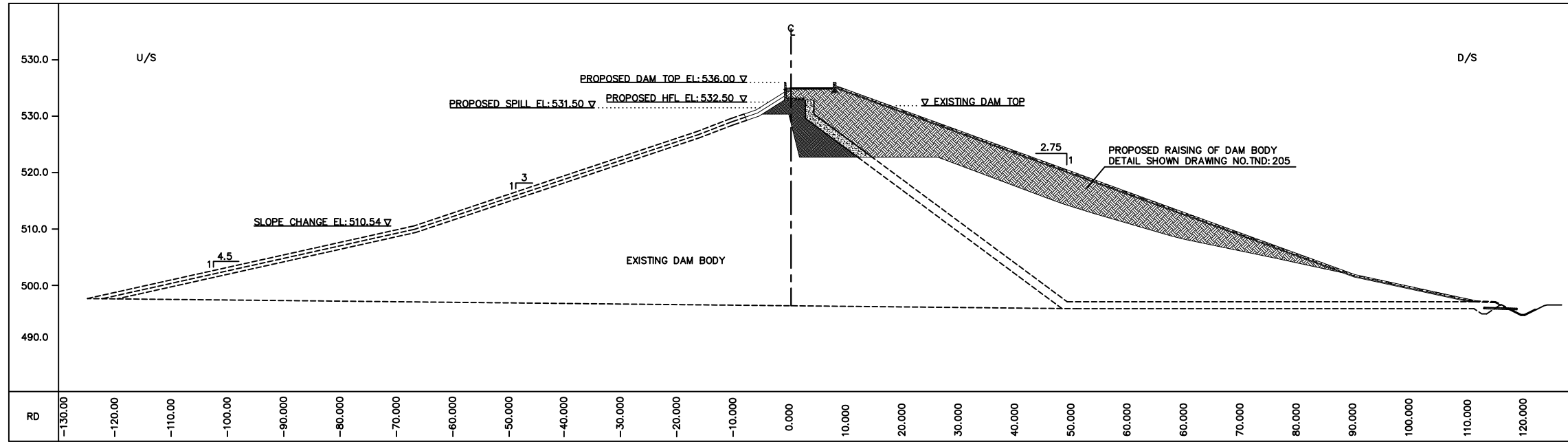
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

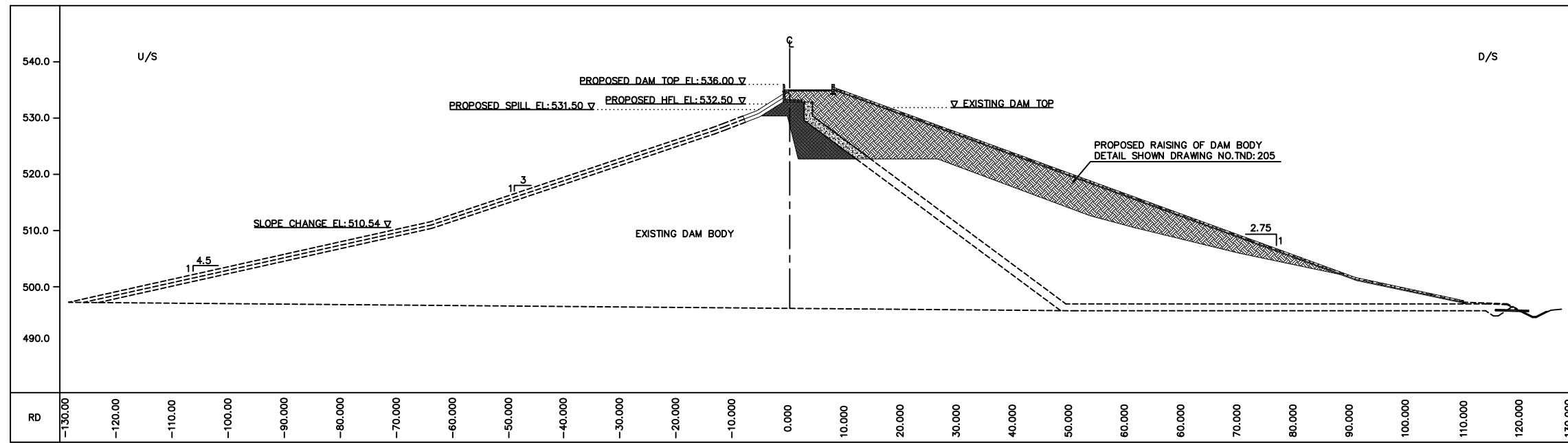
TITLE:  
**CROSS SECTION OF DAM**

DRG.No:- TND-208	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.-	----

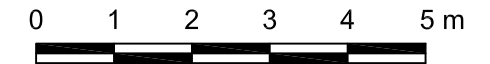
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RD: 0+300



RD: 0+400





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KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

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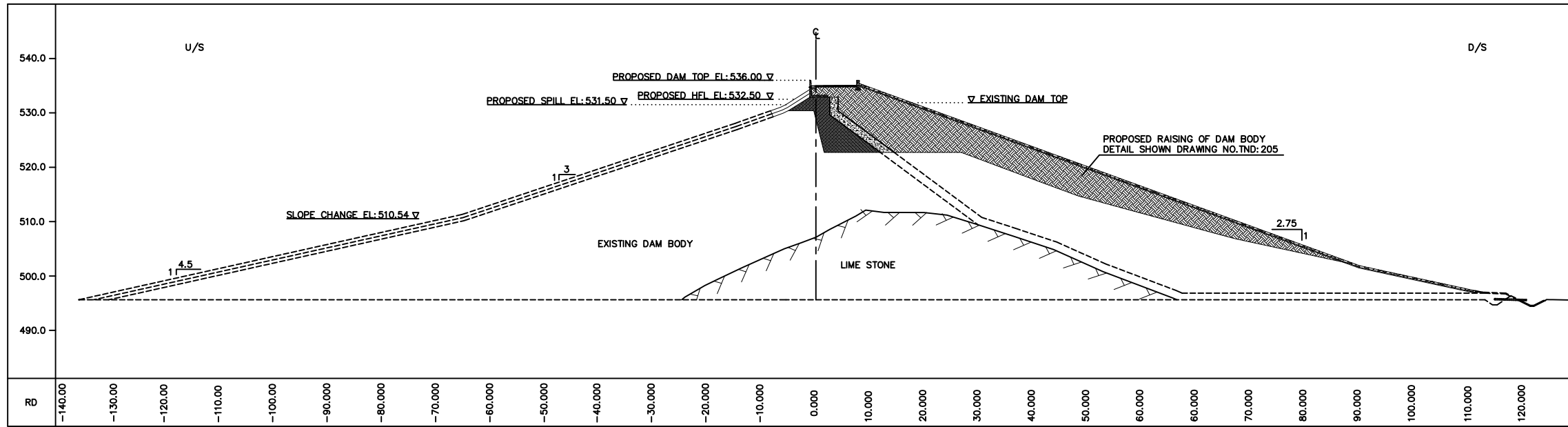
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**CROSS SECTION OF DAM**

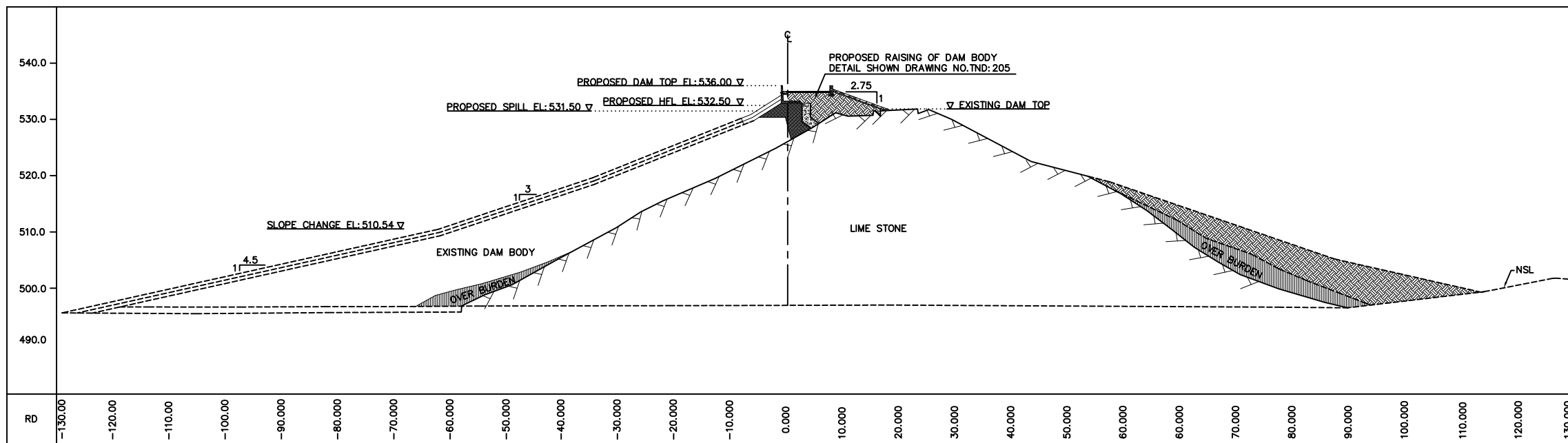
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Shown	JANUARY / 2021

DRG.No:- TND-209 SHEET:- 1 OF 01 SUB SH.-: -

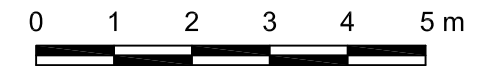
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RD: 0+500



RD: 0+600





SCALE

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FS CONSULTANTS:  CAMEOS

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CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

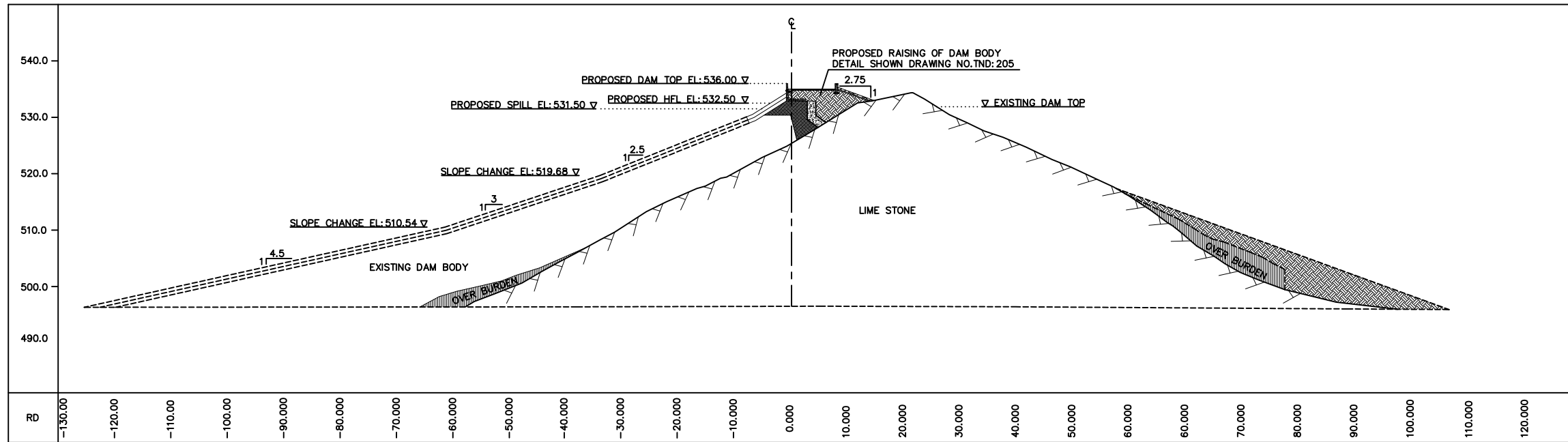
TITLE:  
**CROSS SECTION OF DAM**

SCALE	DATE
Shown	JANUARY / 2021

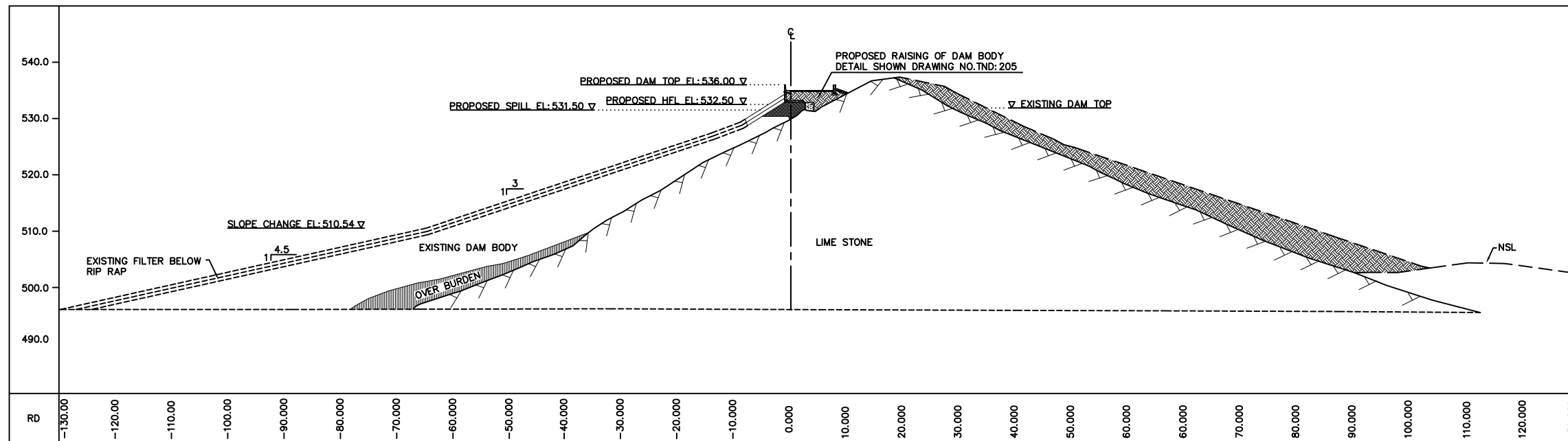
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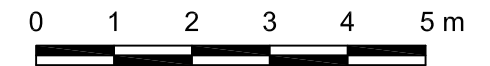
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RD: 0+610




RD: 0+620






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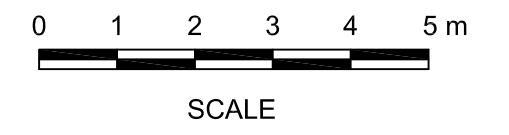
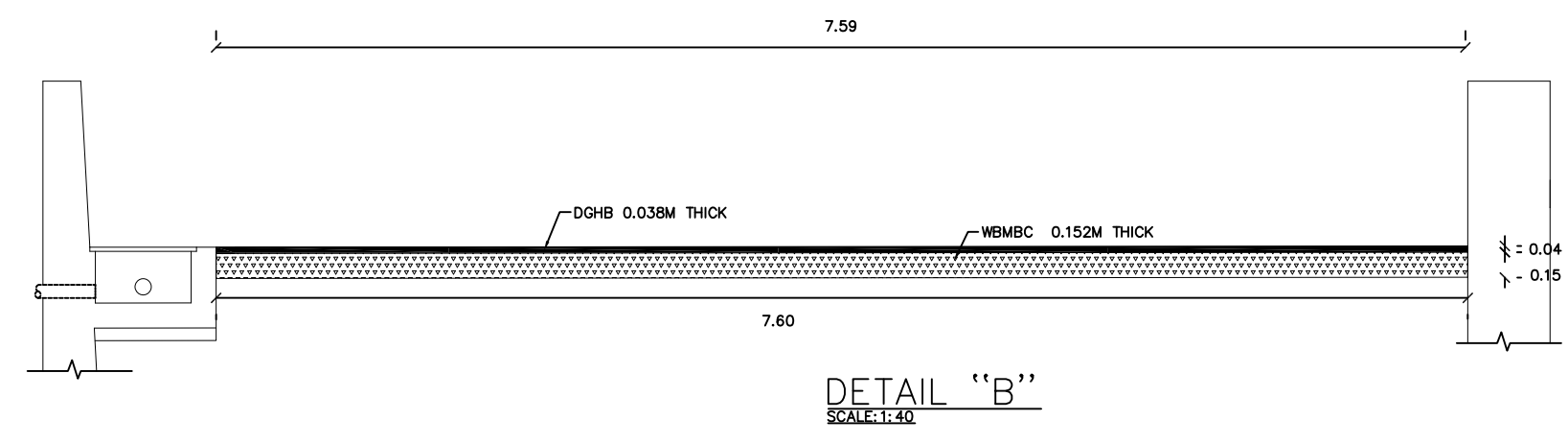
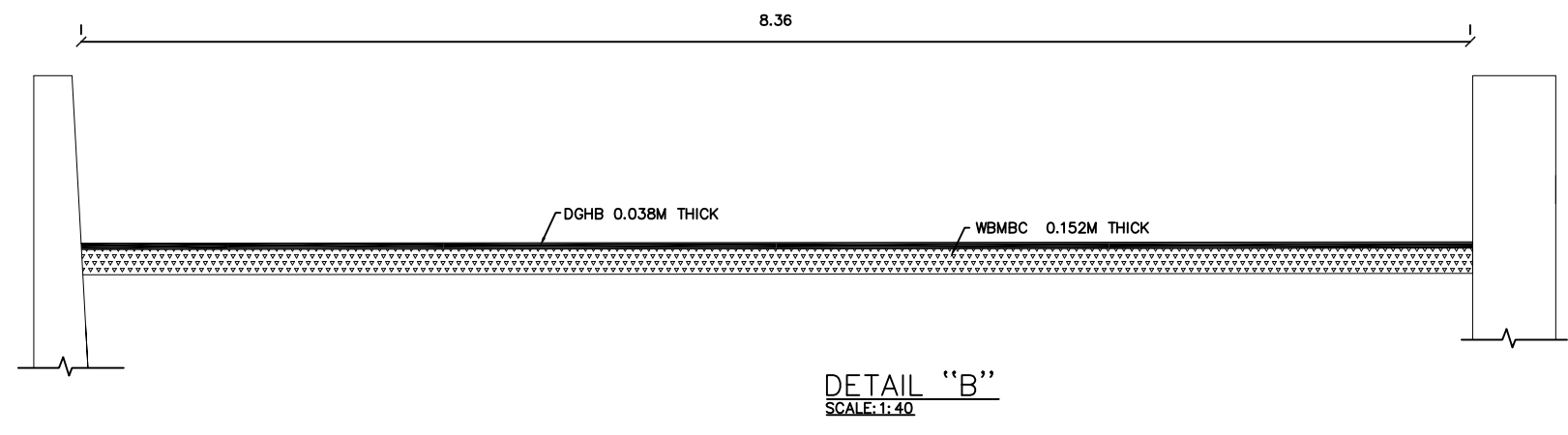
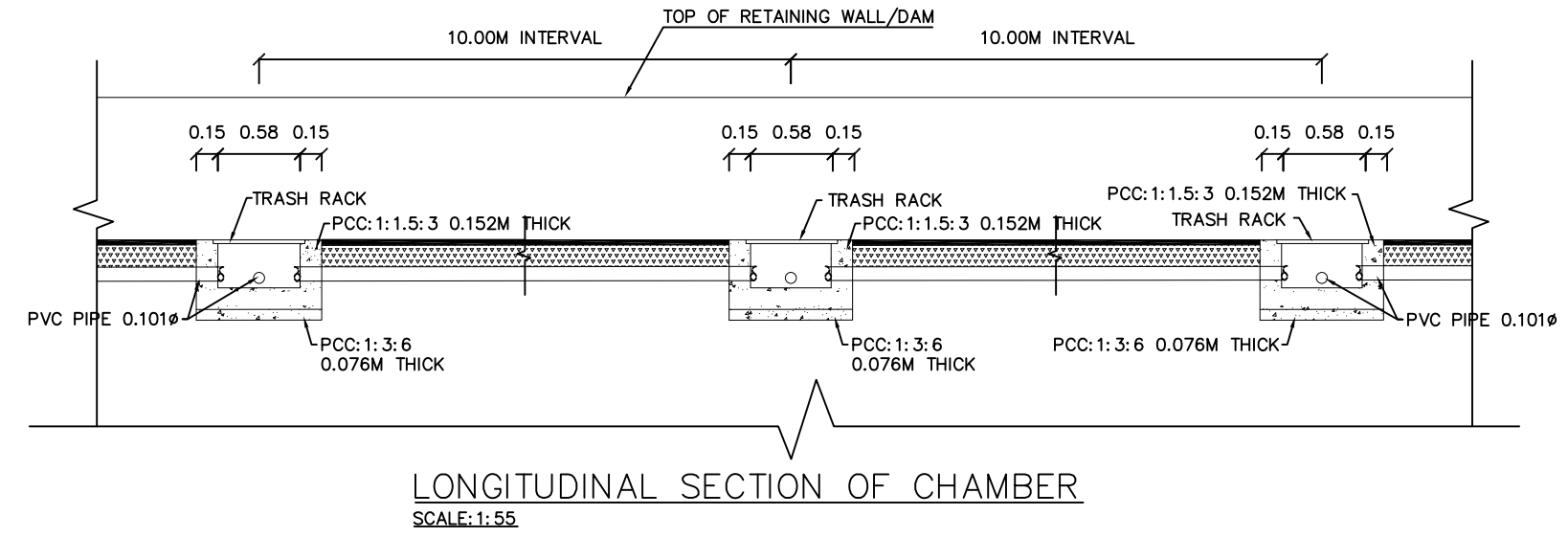
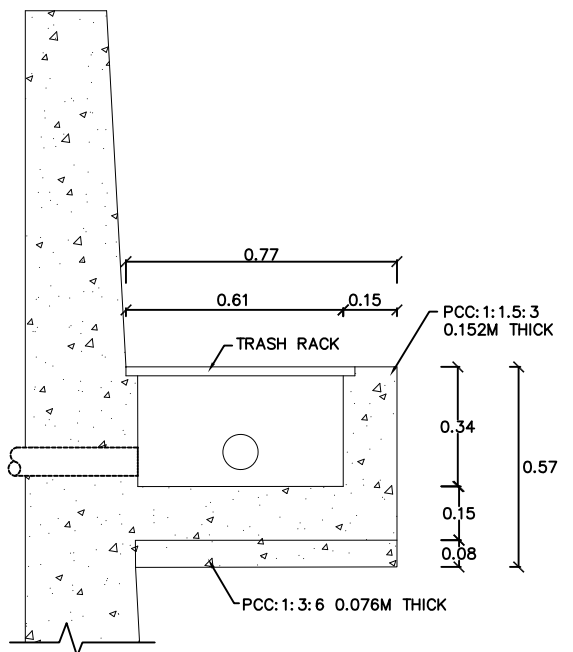
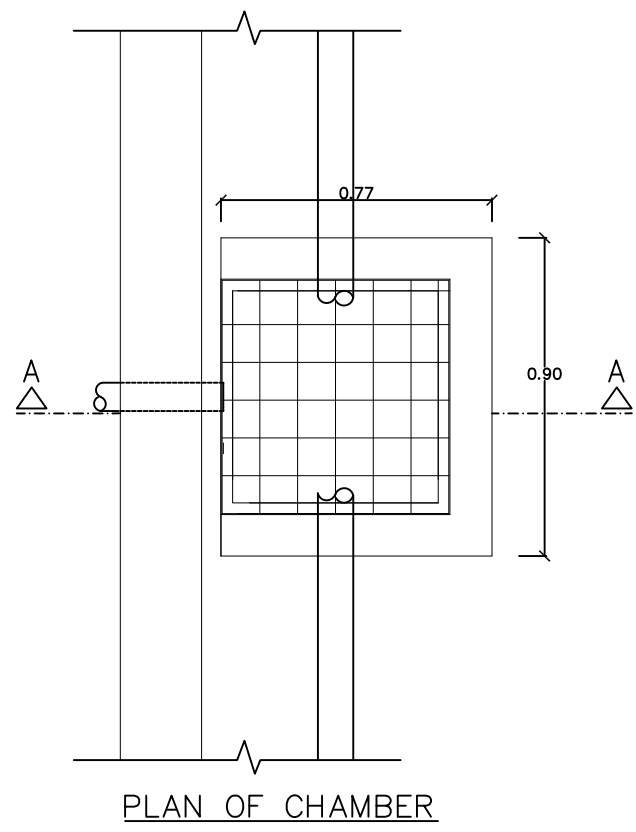
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**CROSS SECTION OF DAM**


SCALE	DATE
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DRG.No:- TND-211 SHEET:- 1 OF 01 SUB SH.-




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CLIENT:  **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  **CAMEOS**

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 **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

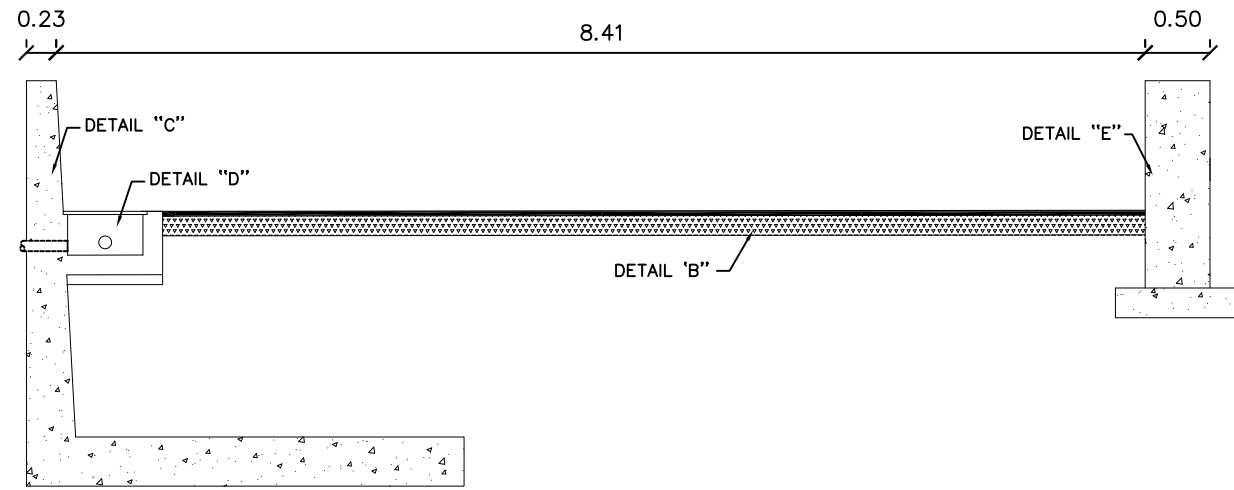
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **CHAMBER DETAILS**

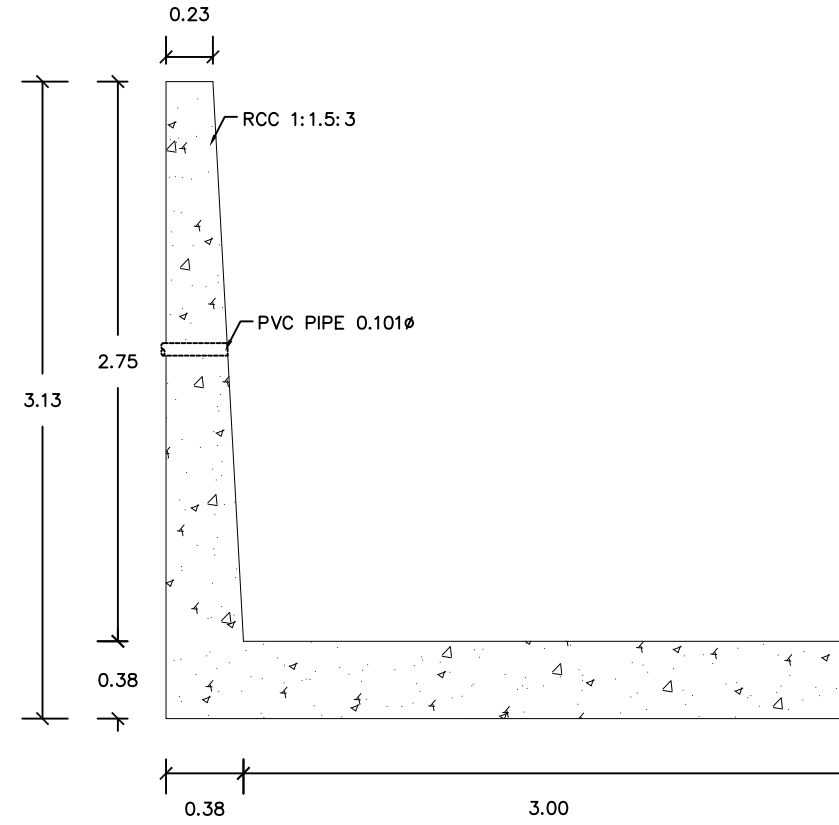
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-212 SHEET:- 1 OF 01 SUB SH.- ----

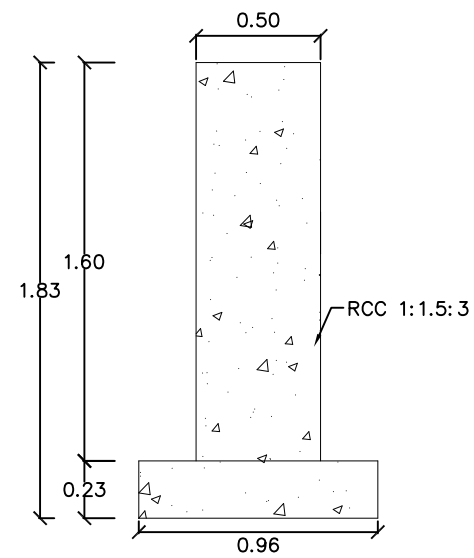
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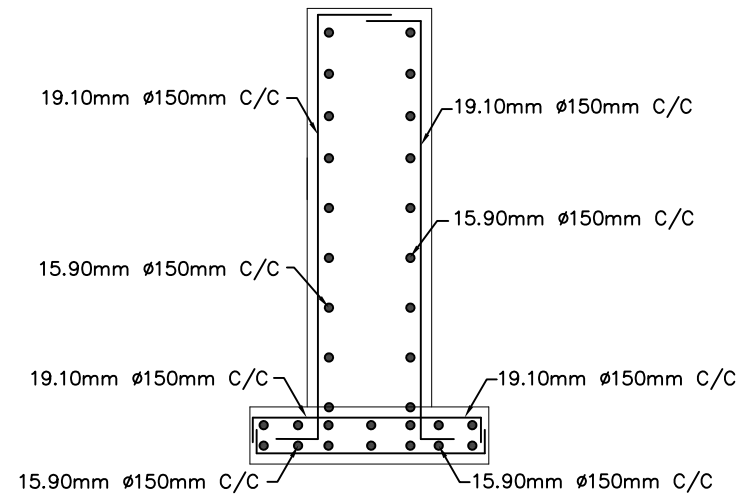
**X-SECTION OF ROAD, RETAINING WALLS & CHAMBER**  
SCALE: 1:60



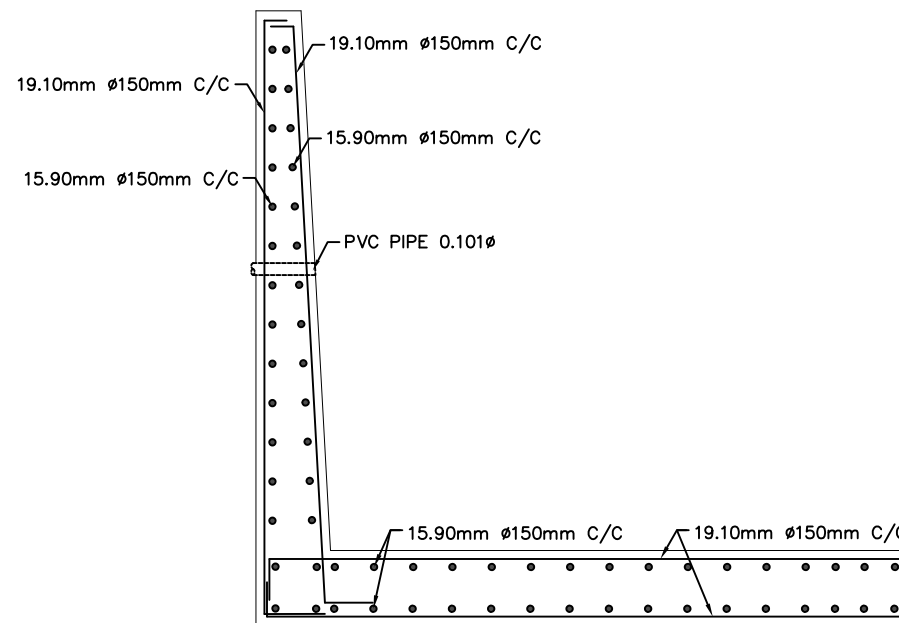
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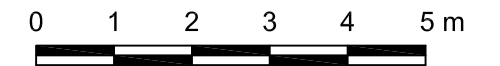
**DETAIL "E"**  
SCALE: 1:35



**REINFORCEMENT DETAIL SECTION "E"**  
SCALE: 1:35



**REINFORCEMENT DETAIL SECTION "C"**  
SCALE: 1:40



SCALE

**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
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 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**

 **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

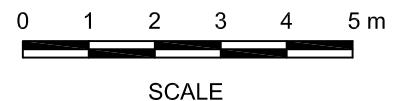
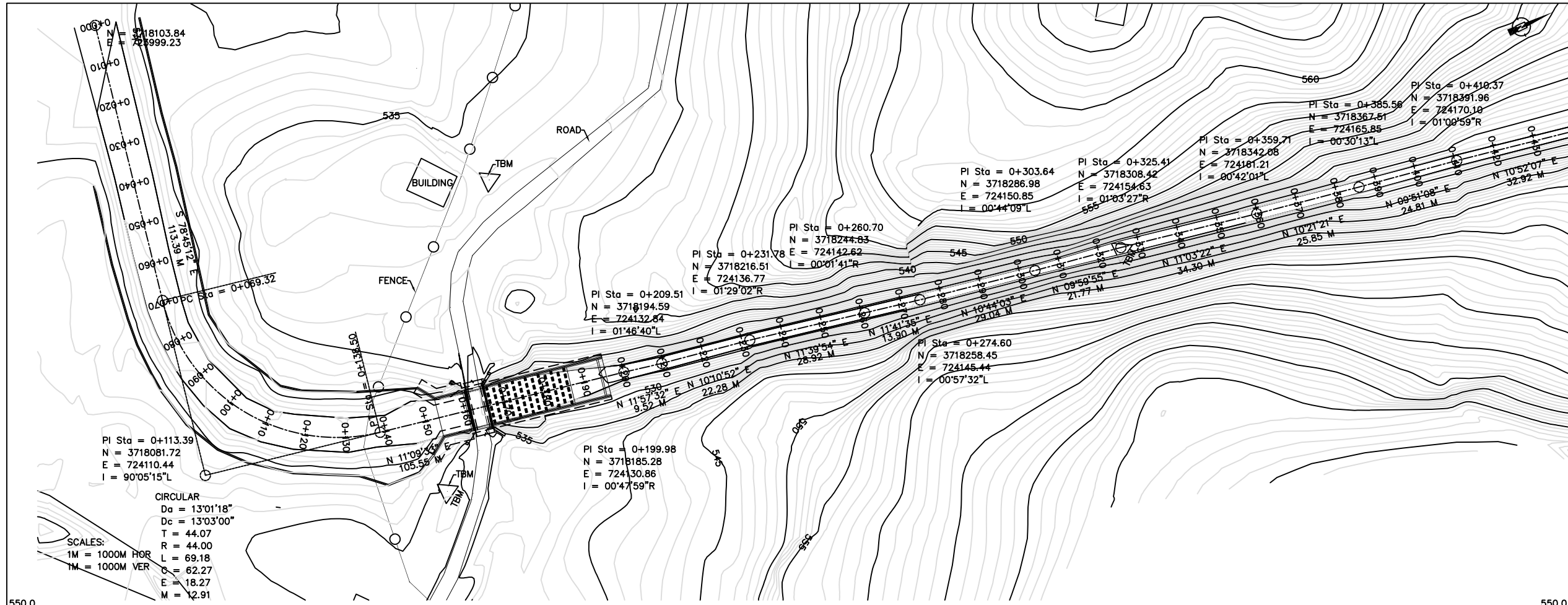
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**RETAINING WALL DETAILS**

SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-213 SHEET:- 1 OF 01 SUB SH.- ----

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TENDER DRAWING

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NSL	527.34	527.18	527.11	527.05	527.07	527.03	527.00	526.96	527.00	526.42	526.95	527.11	527.03	527.19	527.21	527.24	525.43	525.23	525.10	524.92	524.46	524.36	524.26	524.26	524.20	524.14	524.04	523.97	523.87	523.79	523.60	523.41	523.27	523.17	523.06	522.96		
RD	0+000	0+010	0+020	0+030	0+040	0+050	0+060	0+070	0+080	0+090	0+100	0+110	0+120	0+130	0+140	0+150	0+160	0+170	0+180	0+190	0+200	0+210	0+220	0+230	0+240	0+250	0+260	0+270	0+280	0+290	0+300	0+310	0+320	0+330	0+340	0+350	0+360	

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

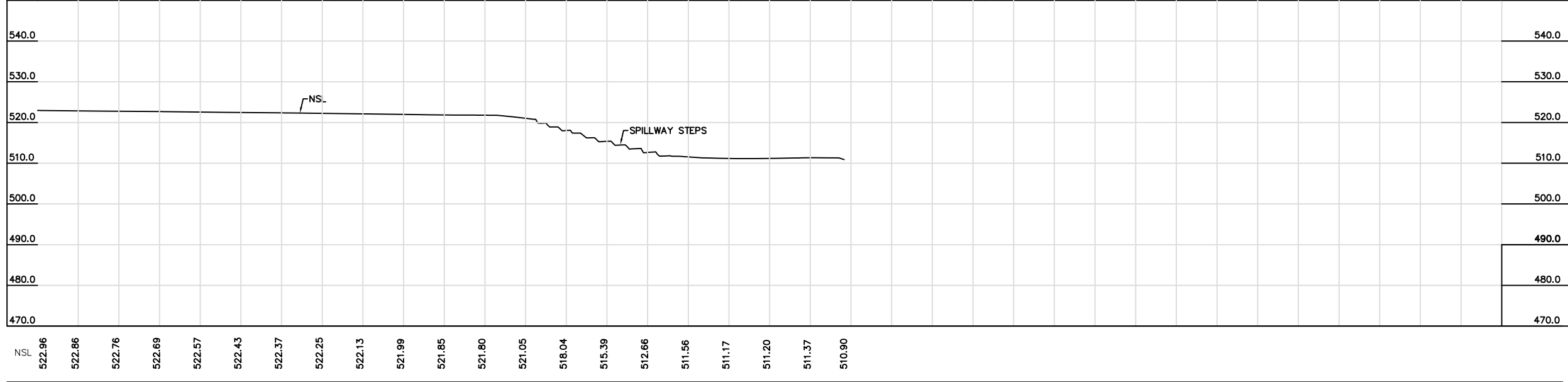
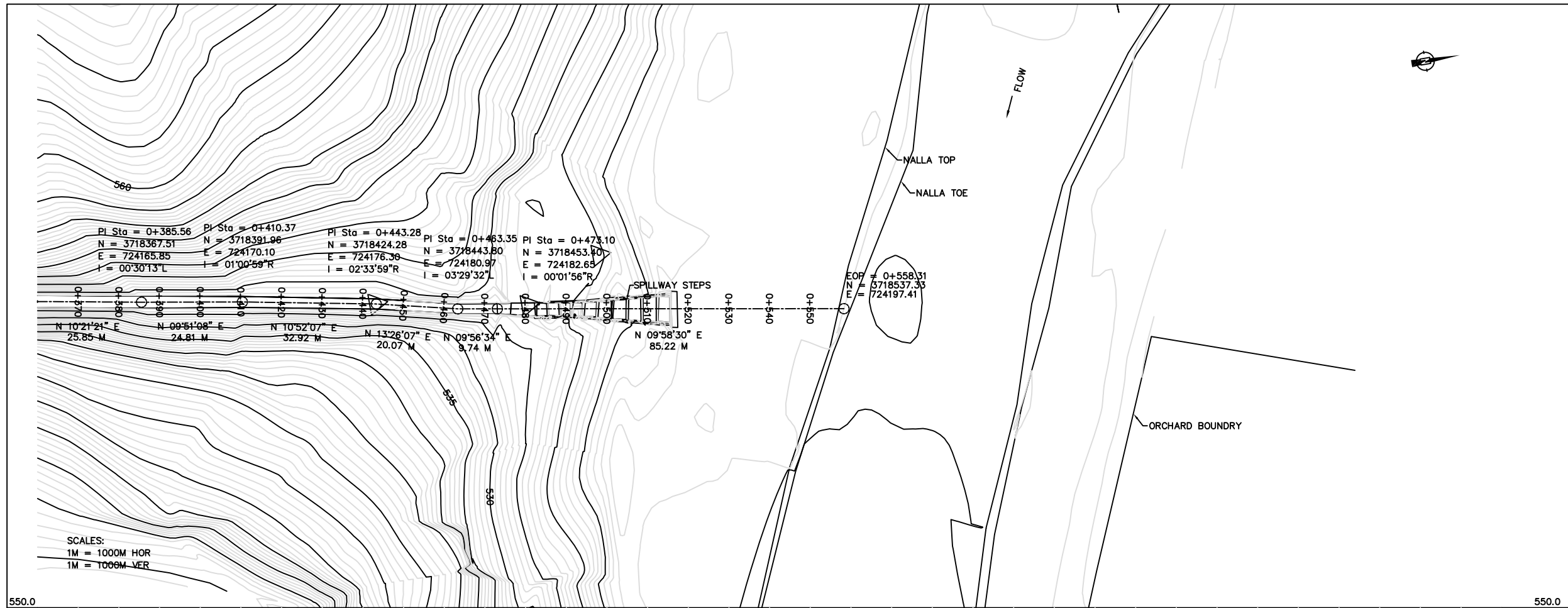
CONSULTANTS:  
 A J.V. OF  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP  
 OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

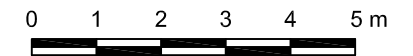
TITLE:  
**REINFORCEMENT OF CROSS  
 SECTION B-B,C-C,D-D,E-E**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
---	---	ENGINEER FAJ	---	Shown	JANUARY / 2021
DRG.No:- TND-301			SHEET:- 1 OF 02		SUB SH.- ----

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NSL	522.96	522.86	522.76	522.69	522.57	522.43	522.37	522.25	522.13	521.99	521.85	521.80	521.05	518.04	515.39	512.66	511.56	511.17	511.20	511.37	510.90
RD	0+360	0+370	0+380	0+390	0+400	0+410	0+420	0+430	0+440	0+450	0+460	0+470	0+480	0+490	0+500	0+510	0+520	0+530	0+540	0+550	0+558



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS

IN ASSOCIATION WITH: ETA ENGINEERING & TECHNICAL ASSOCIATES

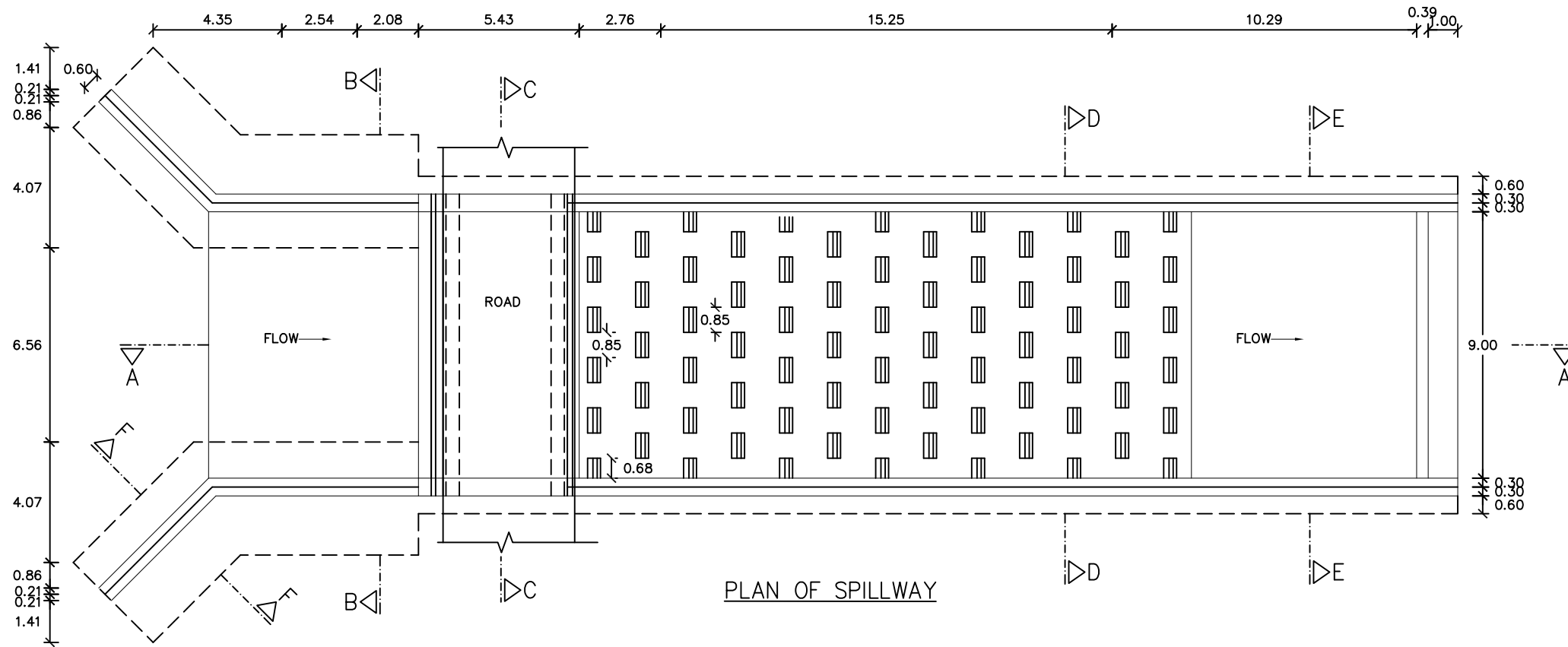
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF SPILLWAY**

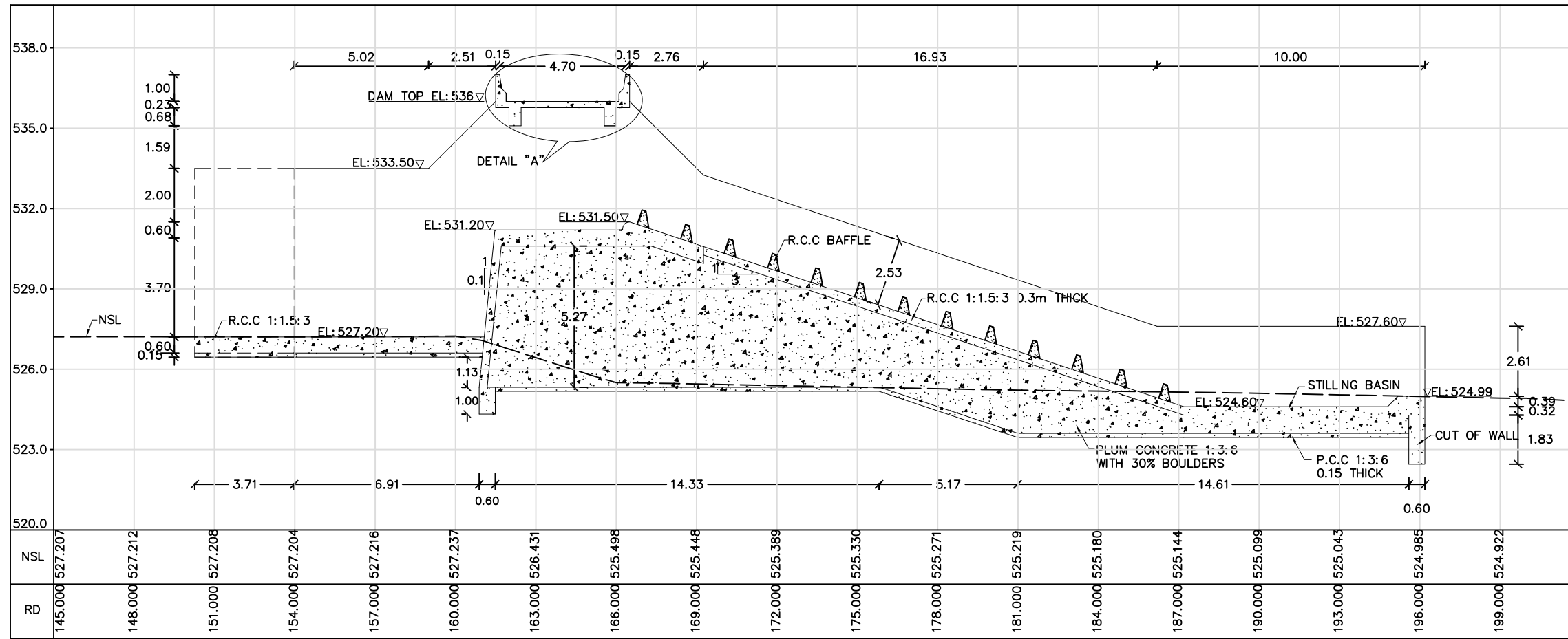
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-302 SHEET:- 1 OF 01 SUB SH.- ----

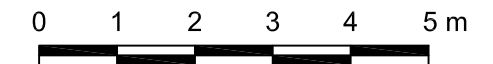
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PLAN OF SPILLWAY





SECTION A-A






SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

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 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

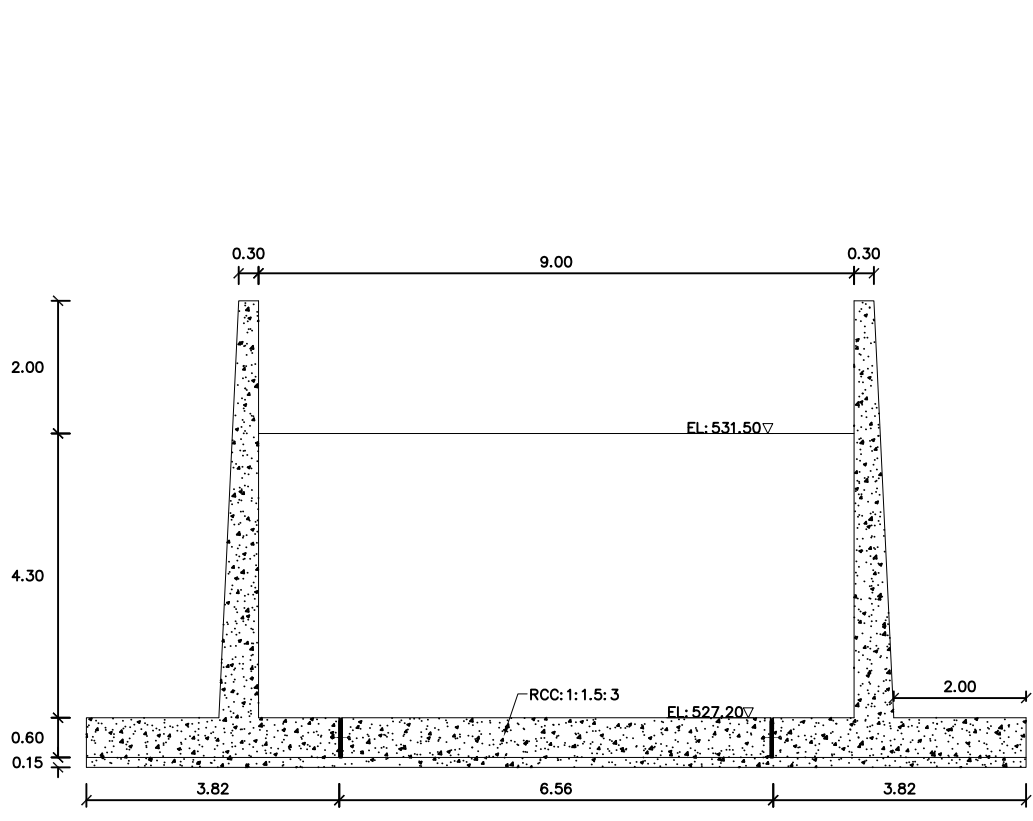
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & SECTION OF SPILLWAY AT A-A**

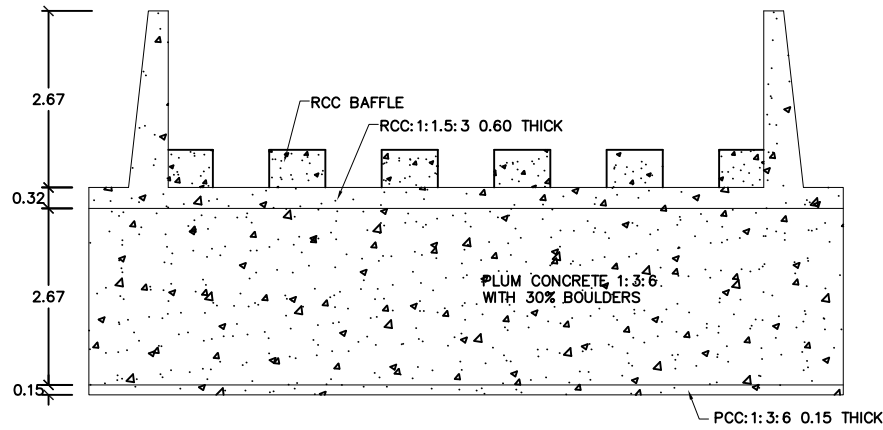
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-303 SHEET:- 1 OF 01 SUB SH.-: -

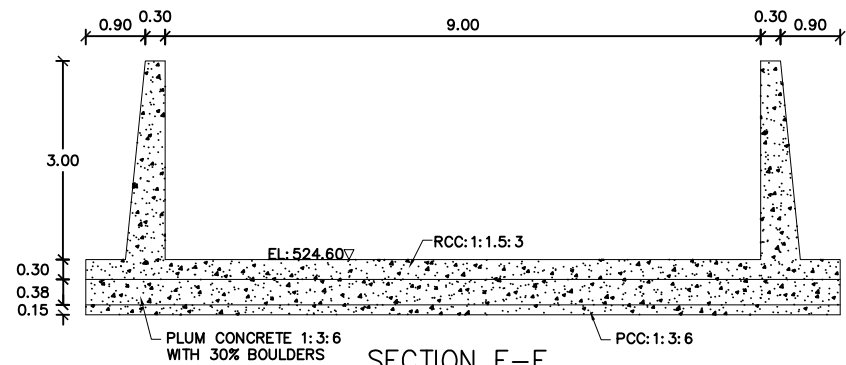
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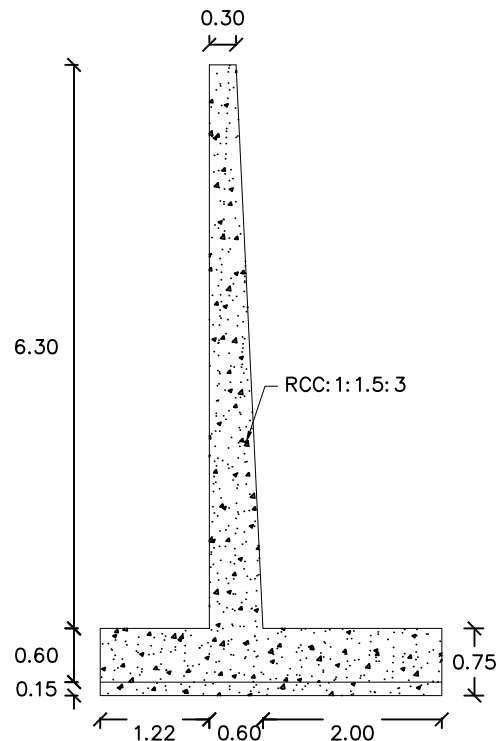
**SECTION B-B**  
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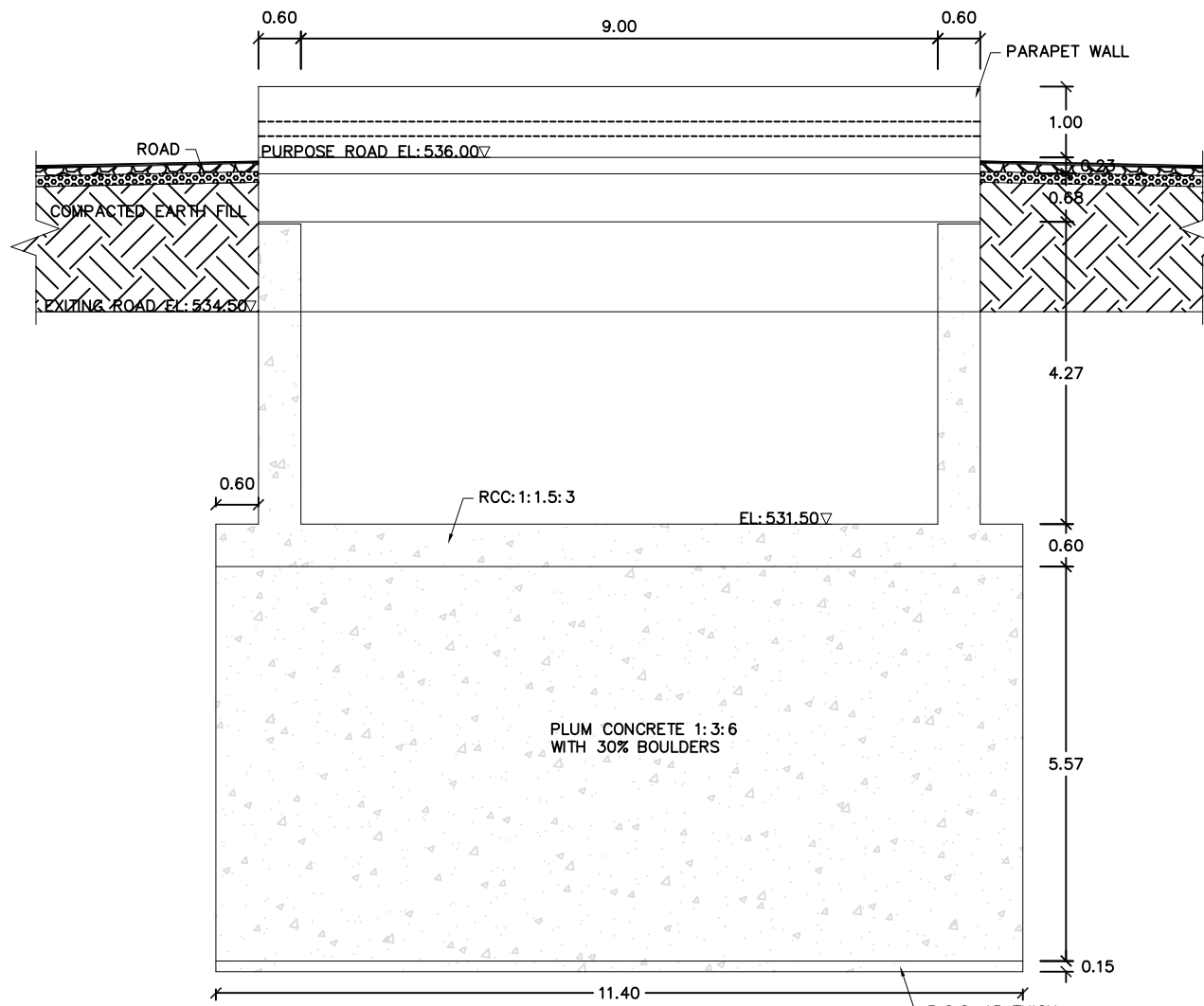
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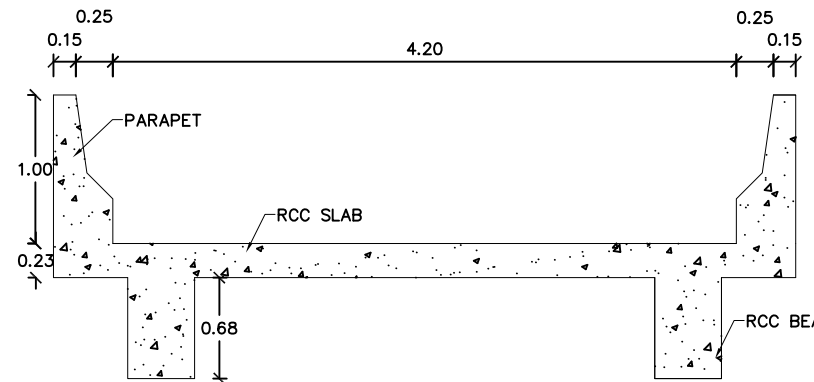
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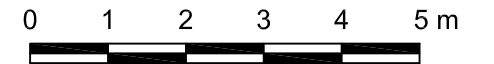
**SECTION F-F**  
SCALE: 1:100



**SECTION C-C**  
SCALE: 1:100




**DETAIL "A"**  
SCALE: 1:50






SCALE

**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
 **CAMEOS**

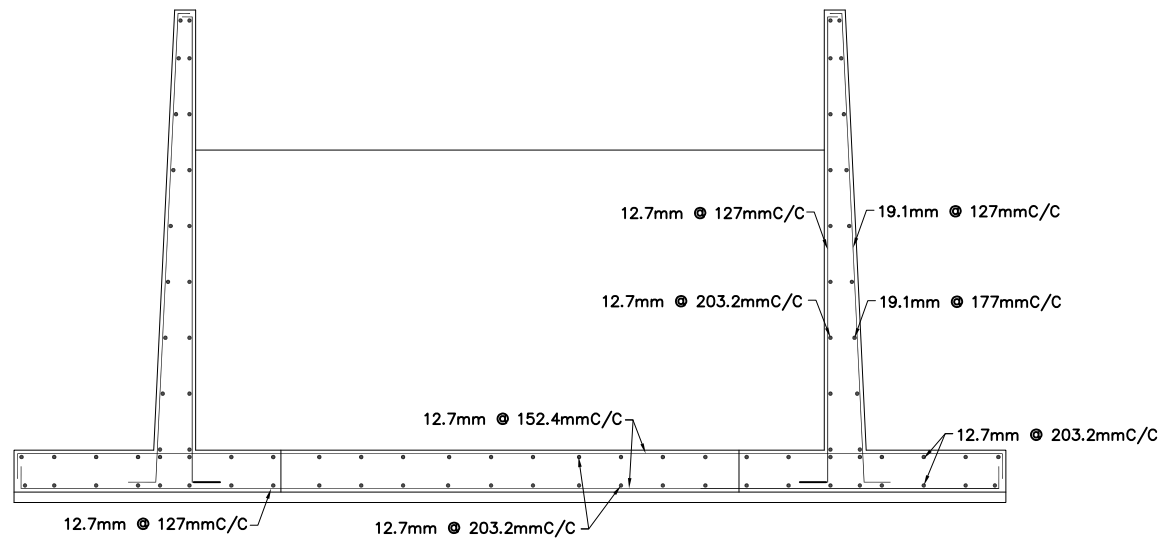
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 **ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

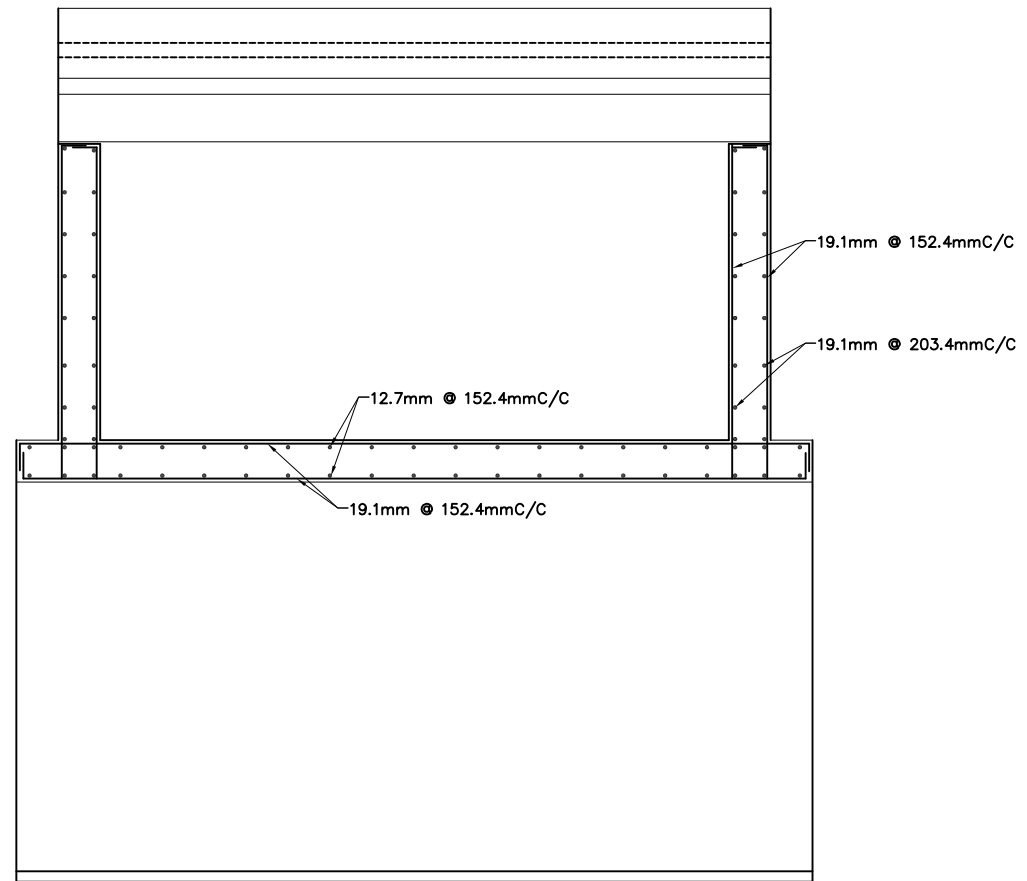
TITLE:  
**DETAIL OF CROSS SECTION B-B,C-C,D-D,E-E**

DRG.No:-	TND-204	SHEET:-	1 OF 01	SUB SH.-	----

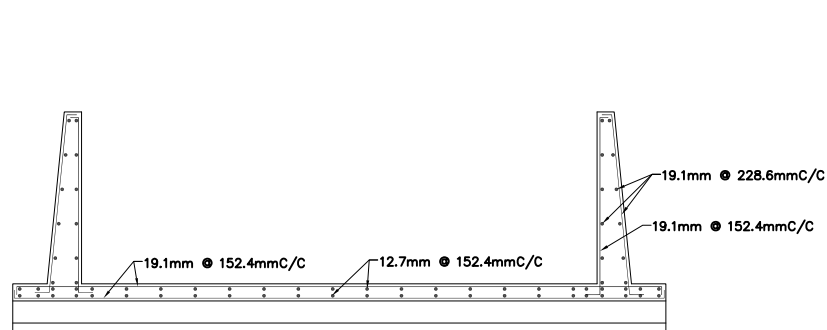
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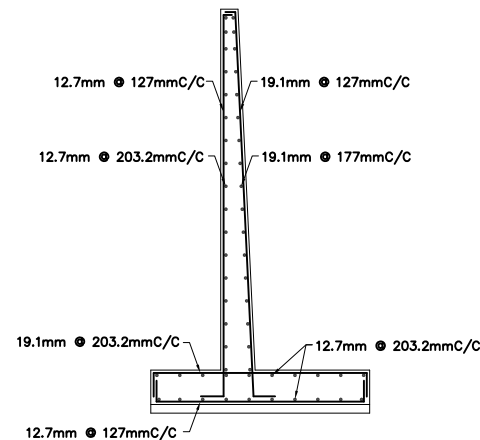
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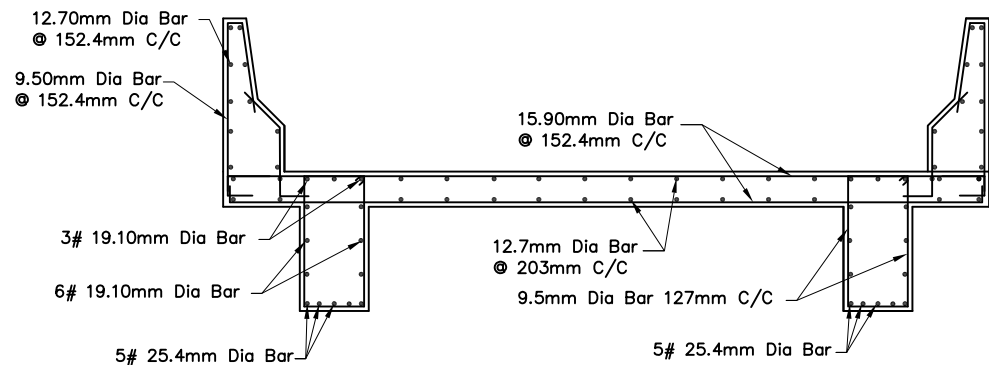
**REINFORCEMENT SECTION C-C**  
SCALE: 1:100



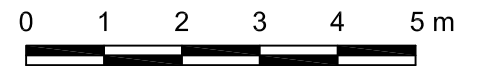
**REINFORCEMENT SECTION E-E**  
SCALE: 1:100



**REINFORCEMENT SECTION F-F**  
SCALE: 1:100



**REINFORCEMENT DETAIL "A"**  
SCALE: 1:50




SCALE

**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
 **CAMEOS**

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 A Joint Venture of:  
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 **ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

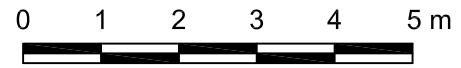
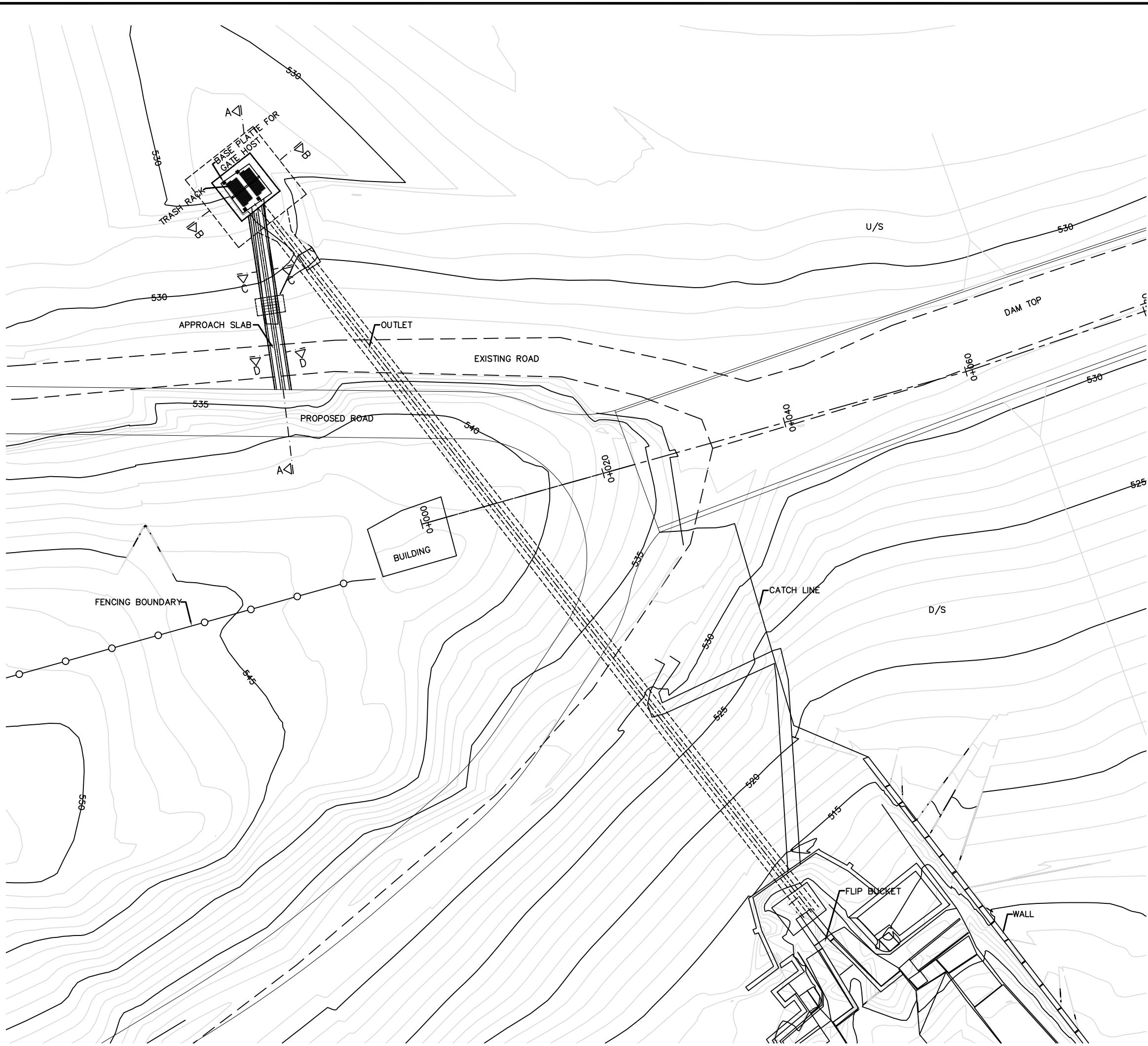
TITLE:  
**REINFORCEMENT OF CROSS SECTION B-B,C-C,D-D,E-E**

SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-305 SHEET:- 1 OF 01 SUB SH.-: ----







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FS CONSULTANTS:  **CAMEOS**      REVISED & UPDATED FOR TENDER BY: A Joint Venture of:  **RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  **CASCADE GROUP OF ENGINEERING & CONSULTANTS**

IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

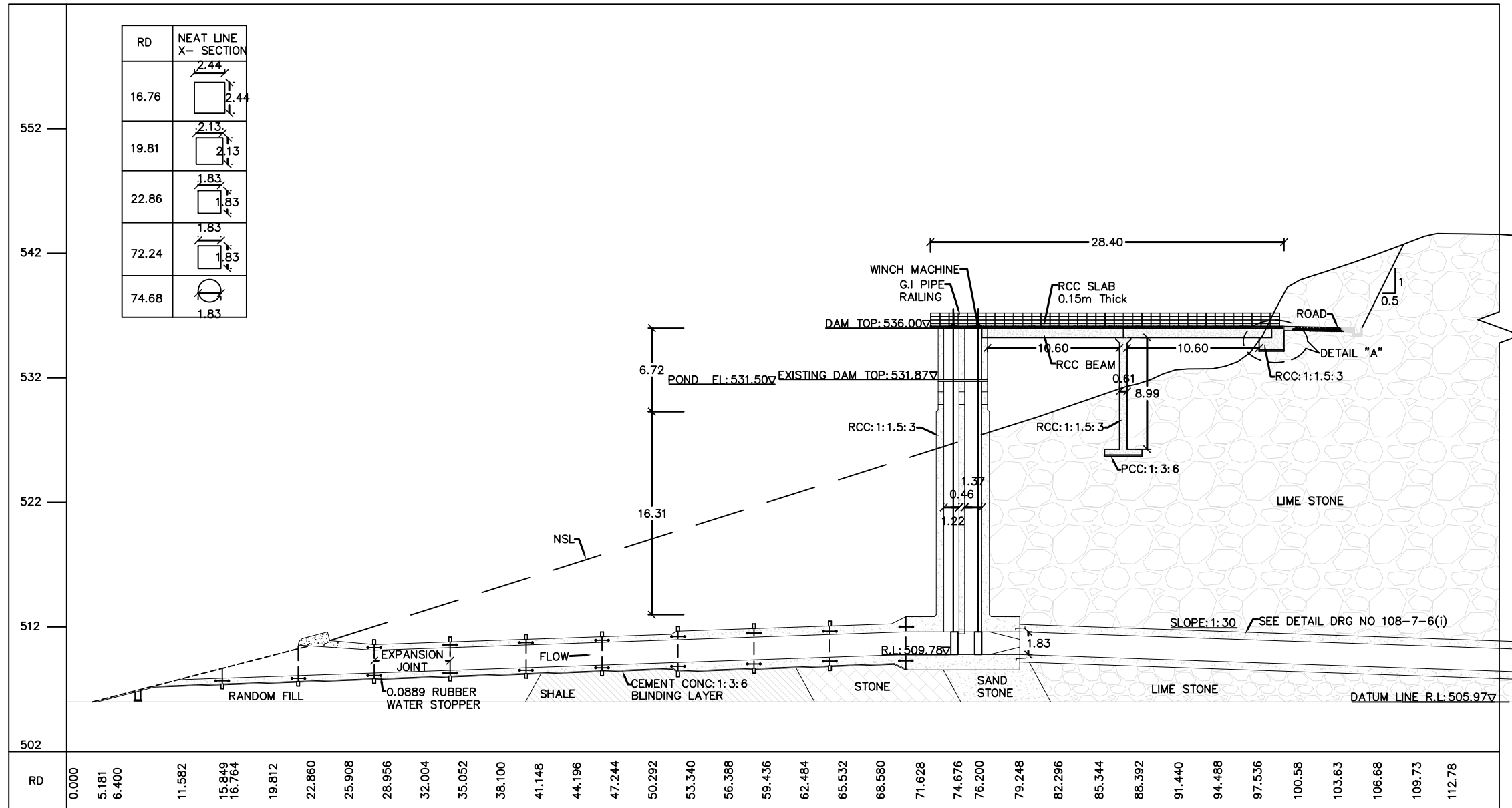
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **INTAKE TOWER PLAN**

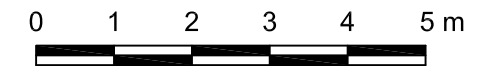
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-401      SHEET:- 1 OF 01      SUB SH.- ----

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L-SECTION AT A-A



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

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IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

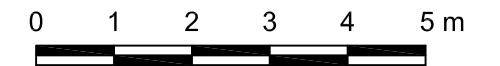
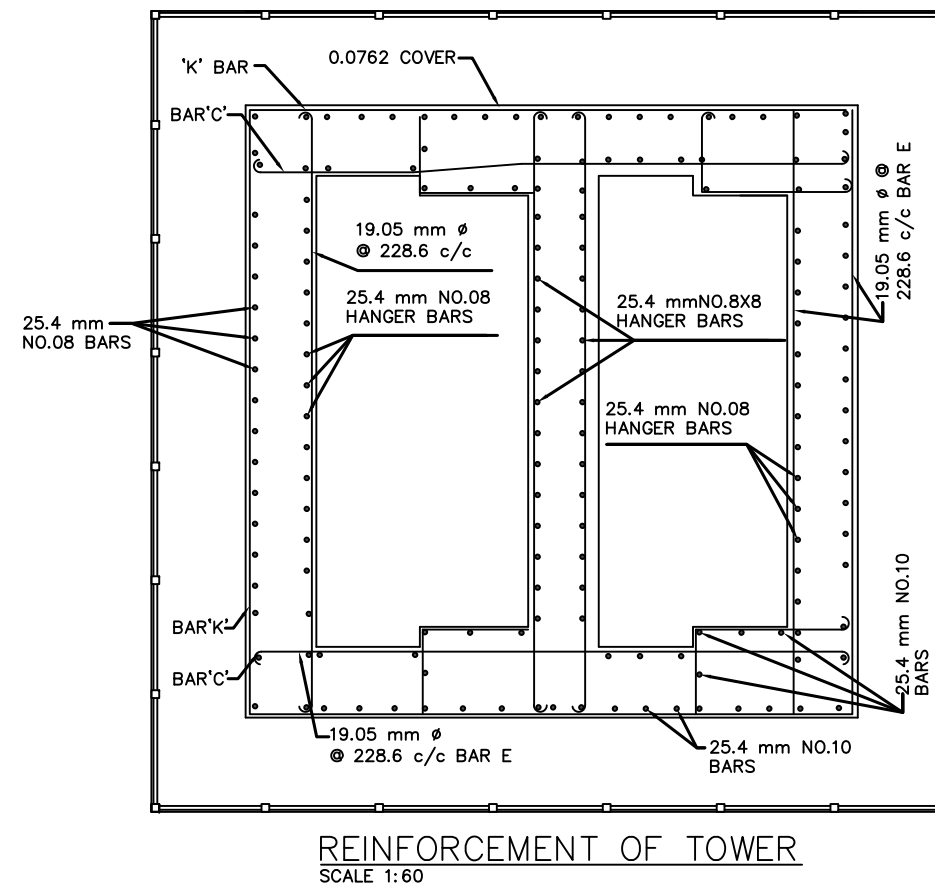
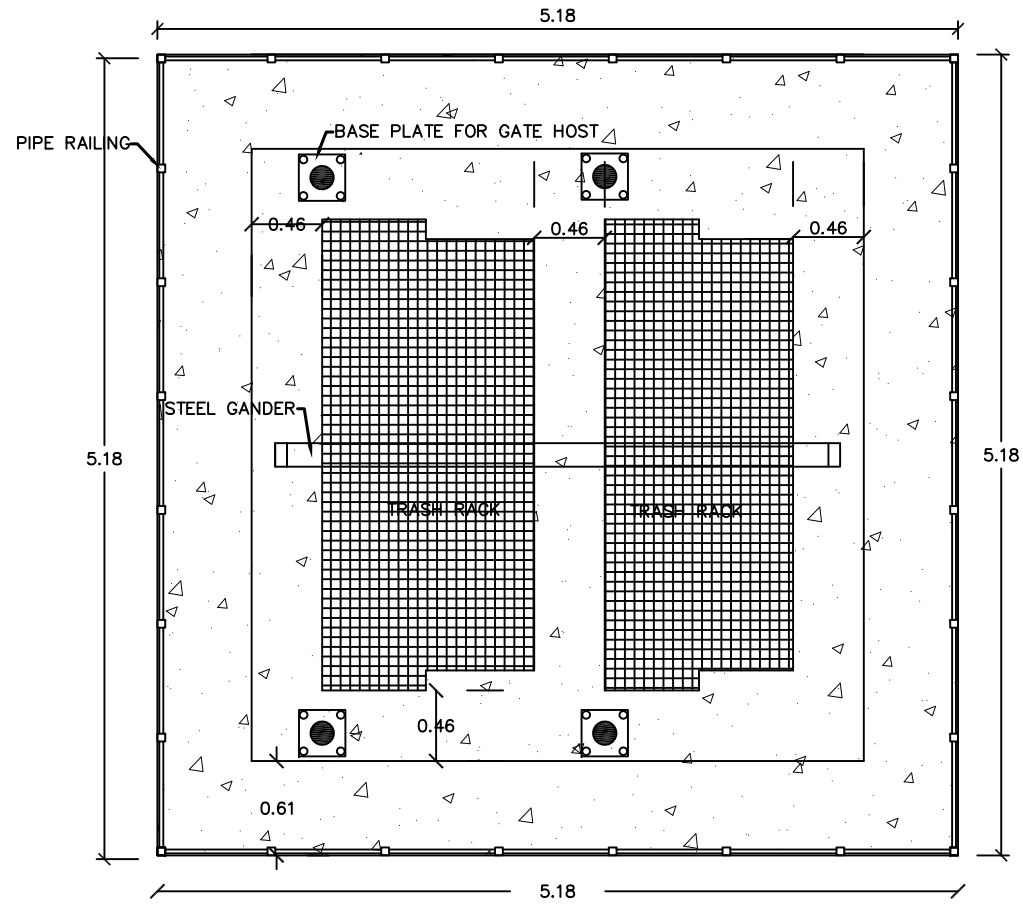
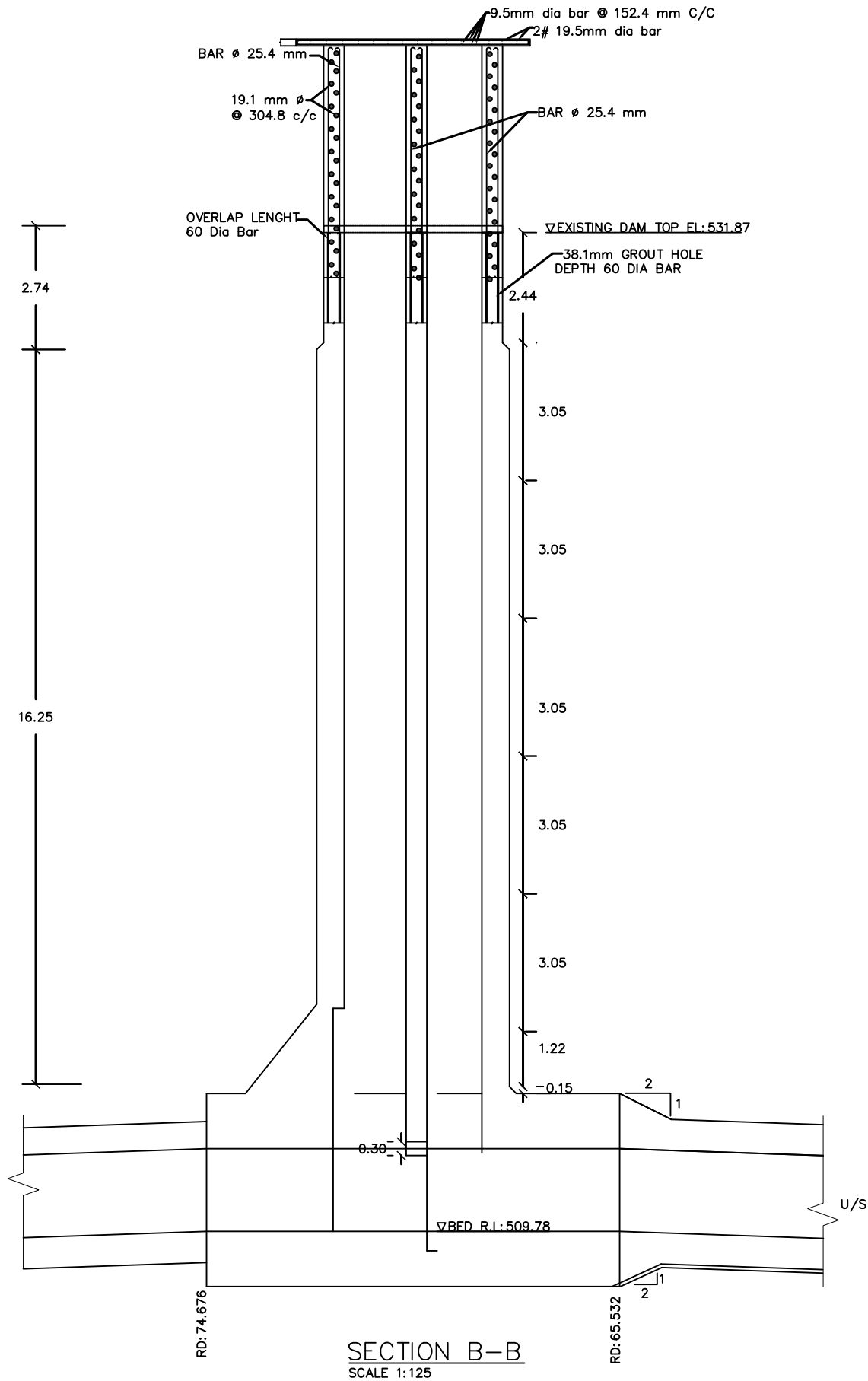
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: LONGITUDINAL SECTION AT A-A

SCALE	DATE
Shown	JANUARY / 2021

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TENDER DRAWING

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
**KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
 **CAMEOS**

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 **ETA** IN ASSOCIATION WITH:  
**ENGINEERING & TECHNICAL ASSOCIATES**

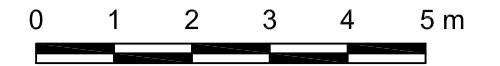
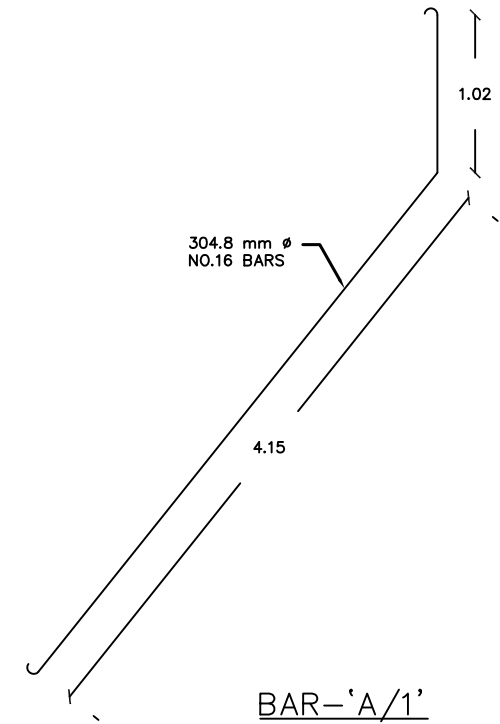
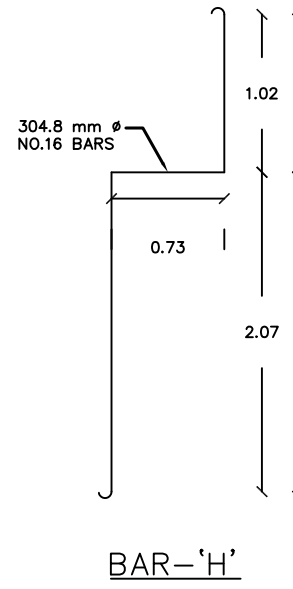
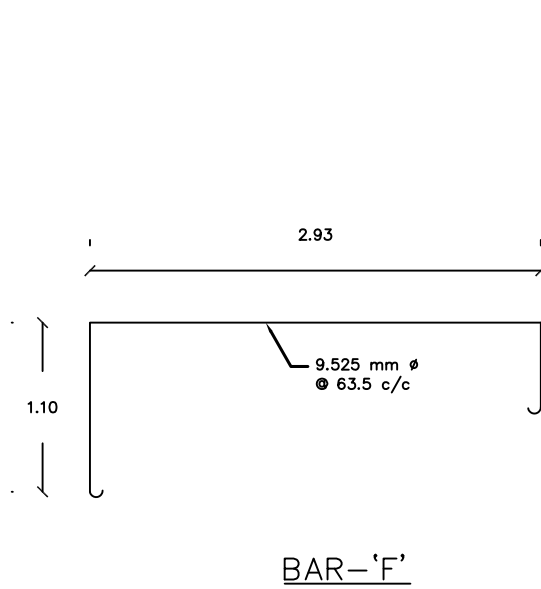
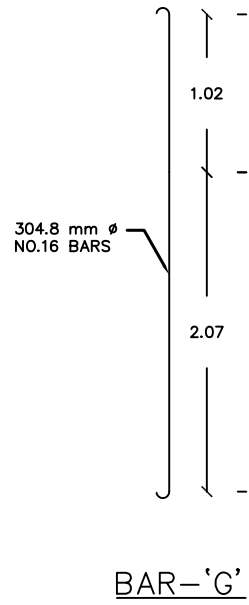
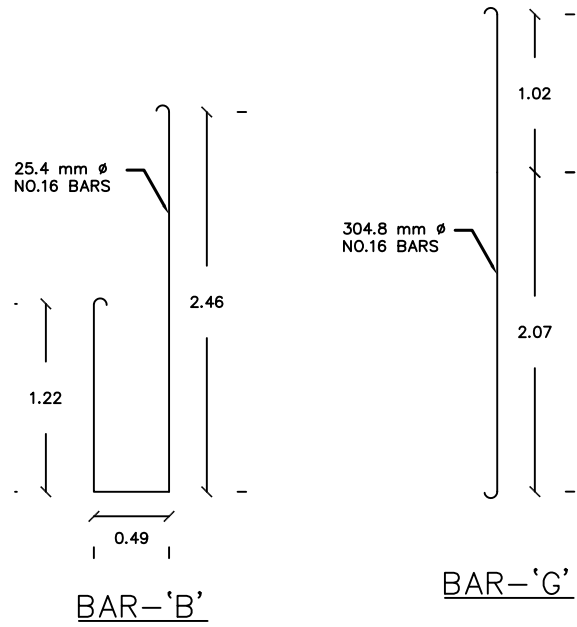
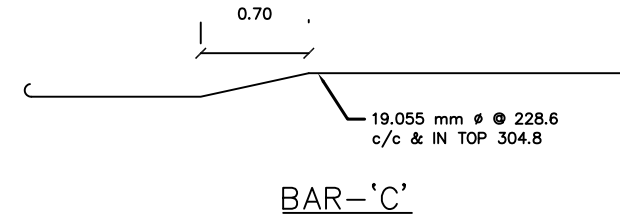
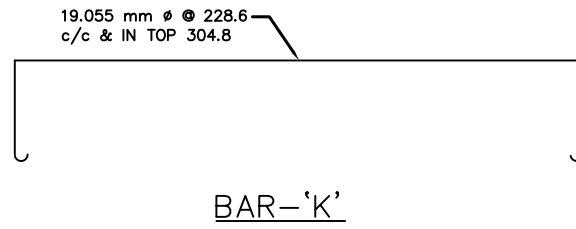
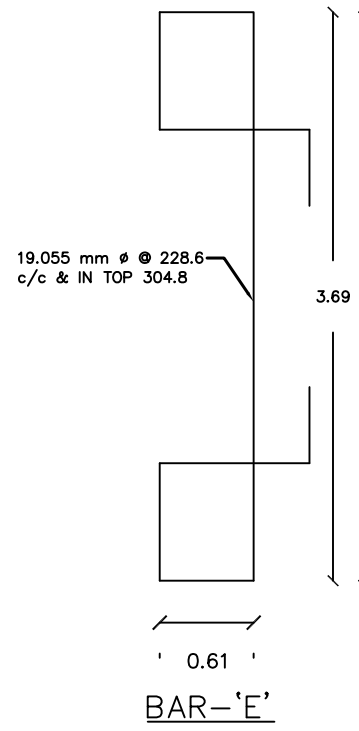
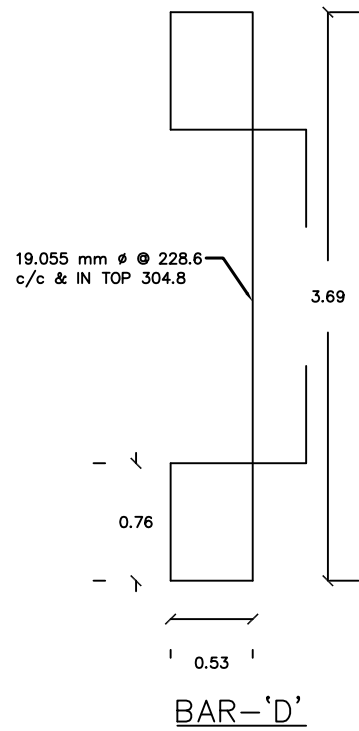
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF**  
**COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**REINFORCEMENT DETAIL**  
**AND SECTION**

SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-403 SHEET:- 1 OF 01 SUB SH.- ----

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SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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 CASCADE GROUP OF  
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IN ASSOCIATION WITH:  
 ETA  
 ENGINEERING & TECHNICAL ASSOCIATES

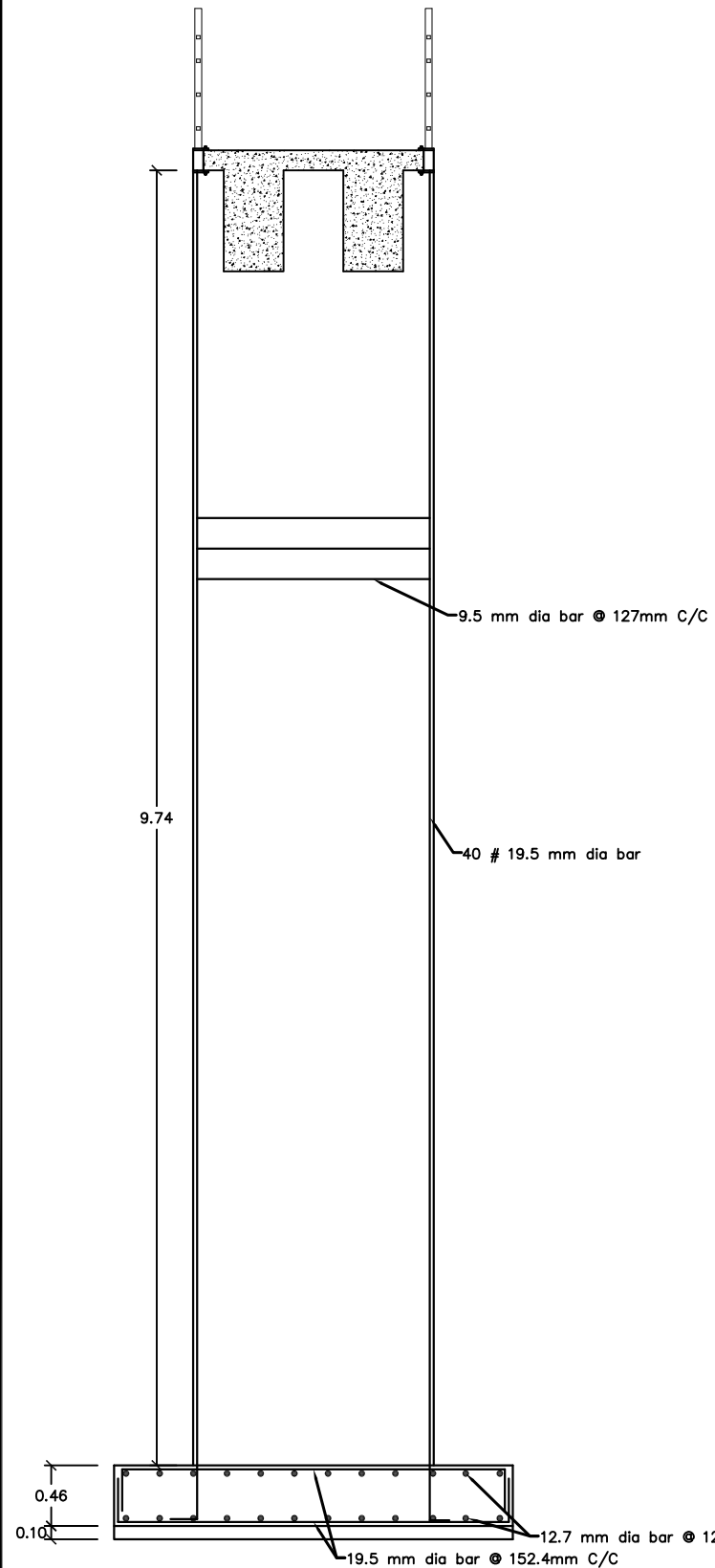
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**BAR BENDING  
 DETAIL**

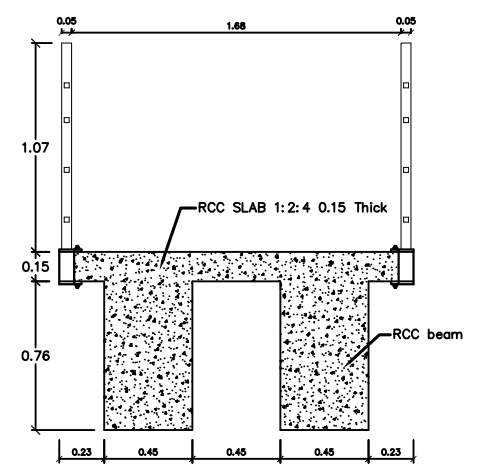
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-404 SHEET:- 1 OF 01 SUB SH.-: ----

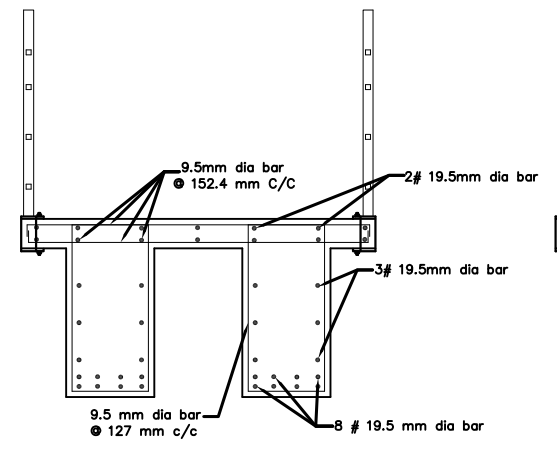
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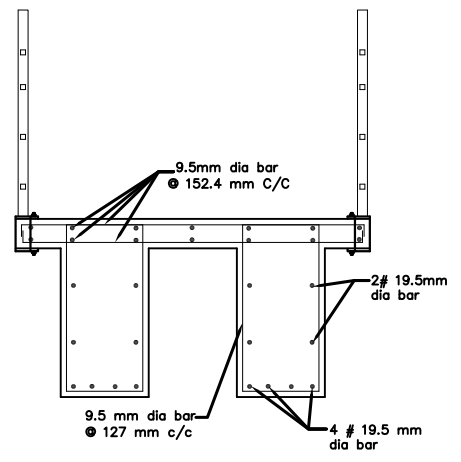
**REINFORCEMENT DETAIL OF COLUMN**  
SCALE: 1:50



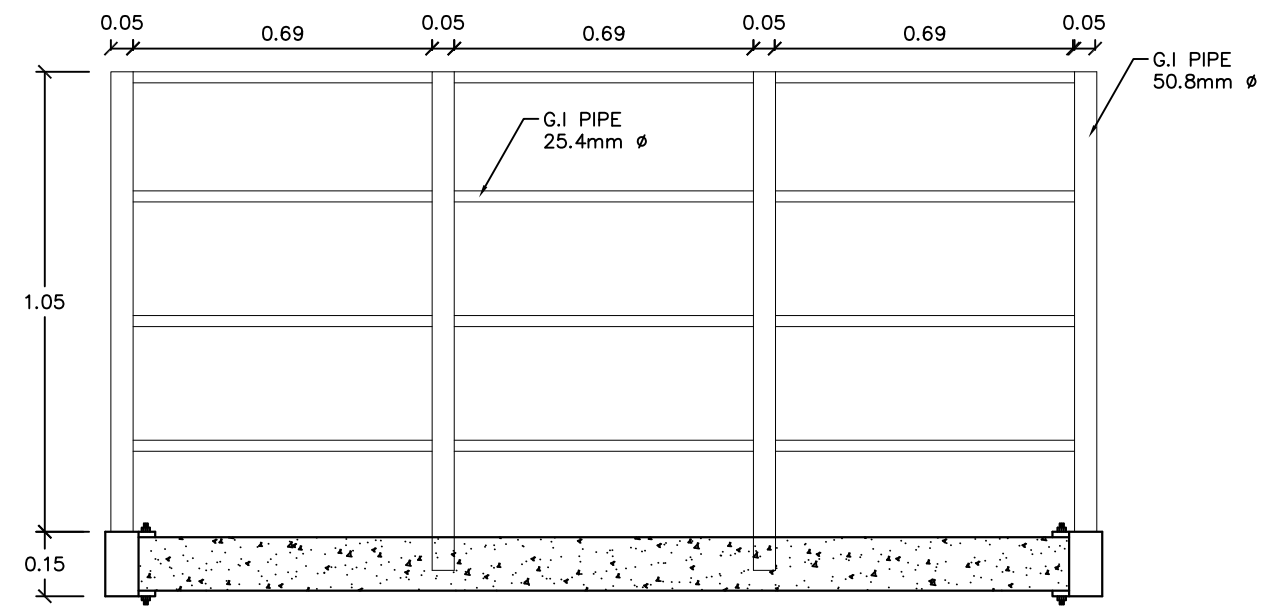
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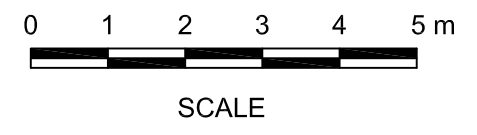
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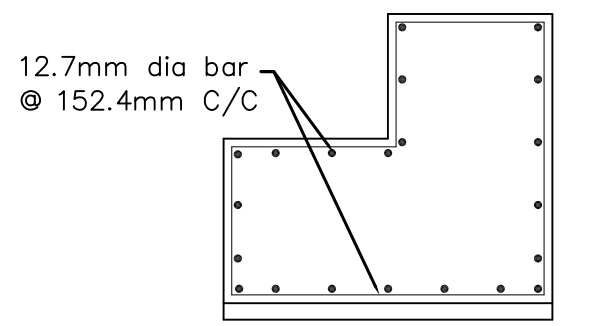
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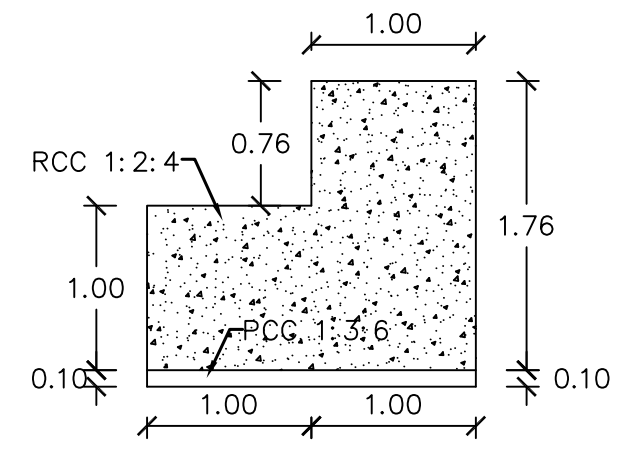
**DETAIL OF PIPE RAILING**  
SCALE: 1:20




**TENDER DRAWING**







**REINFORCEMENT DETAIL -A**  
SCALE: 1:75



**DETAIL -A**  
SCALE: 1:75

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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 **CASC** CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

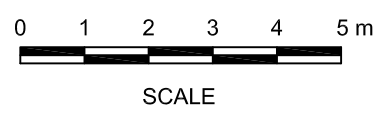
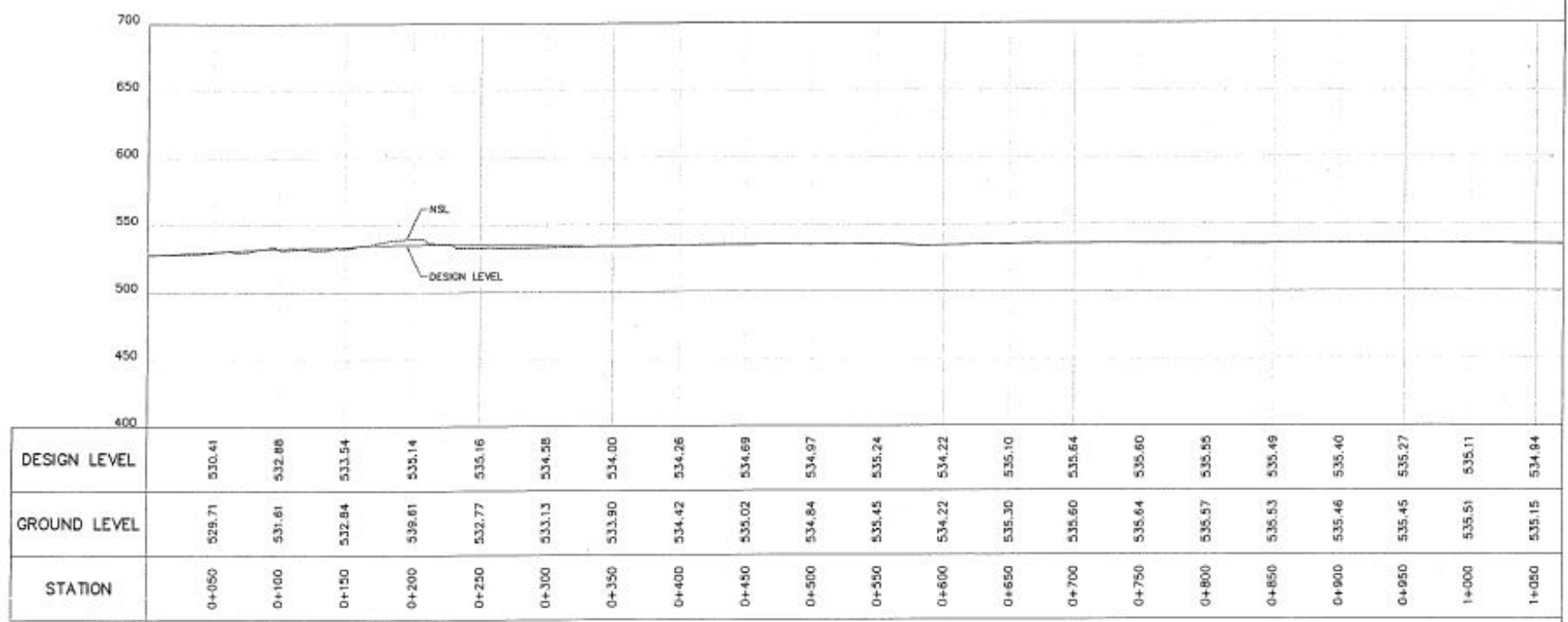
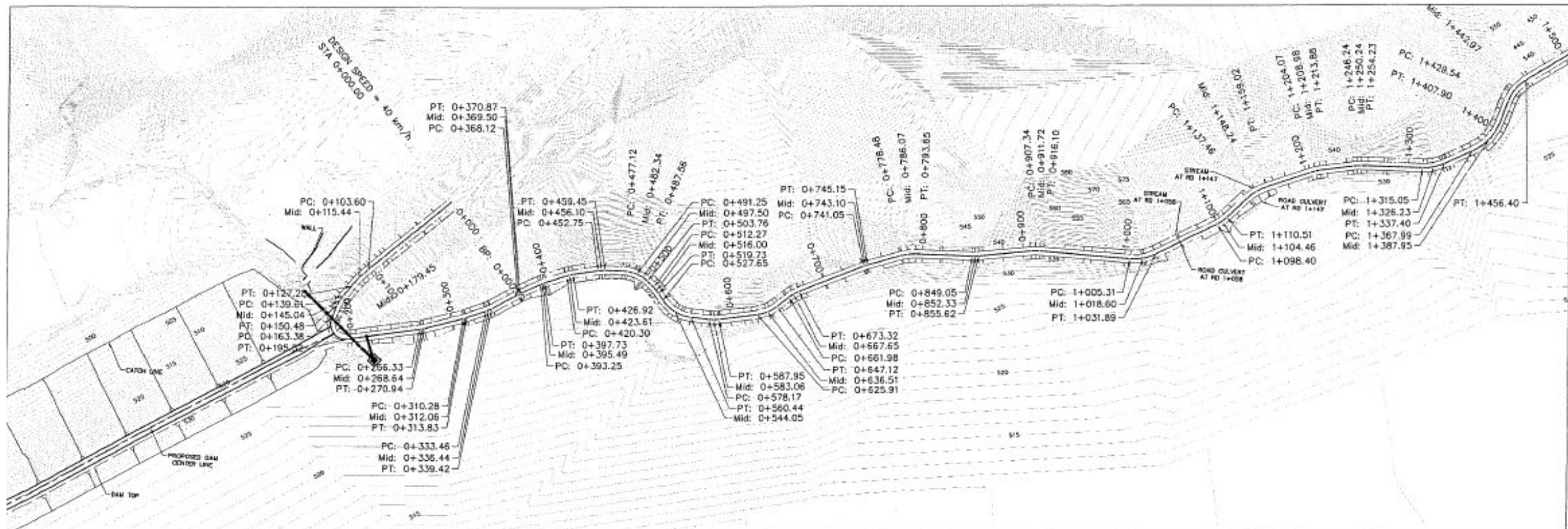
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**REINFORCEMENT DETAIL AND SECTION**

SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-405 SHEET:- 1 OF 01 SUB SH.- ----

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**TENDER DRAWING**

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

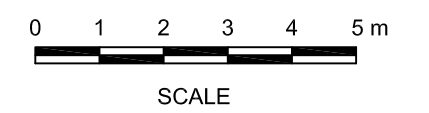
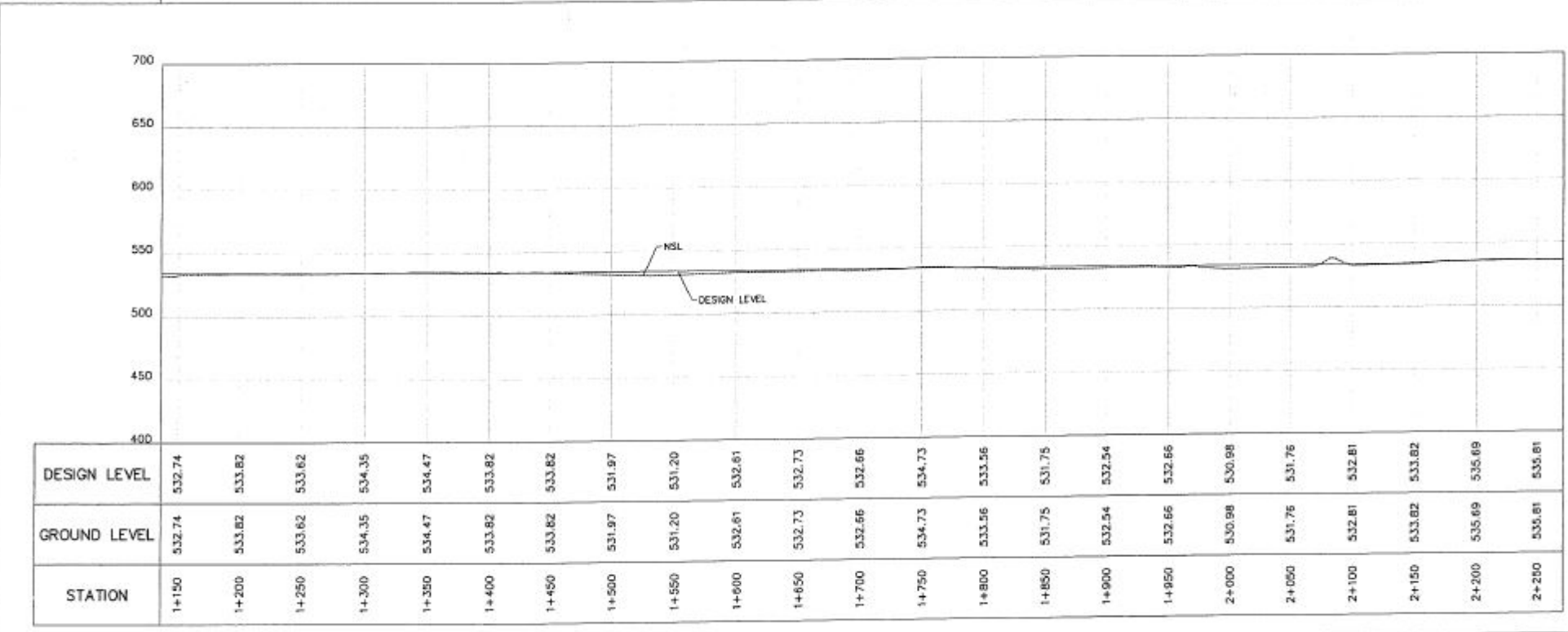
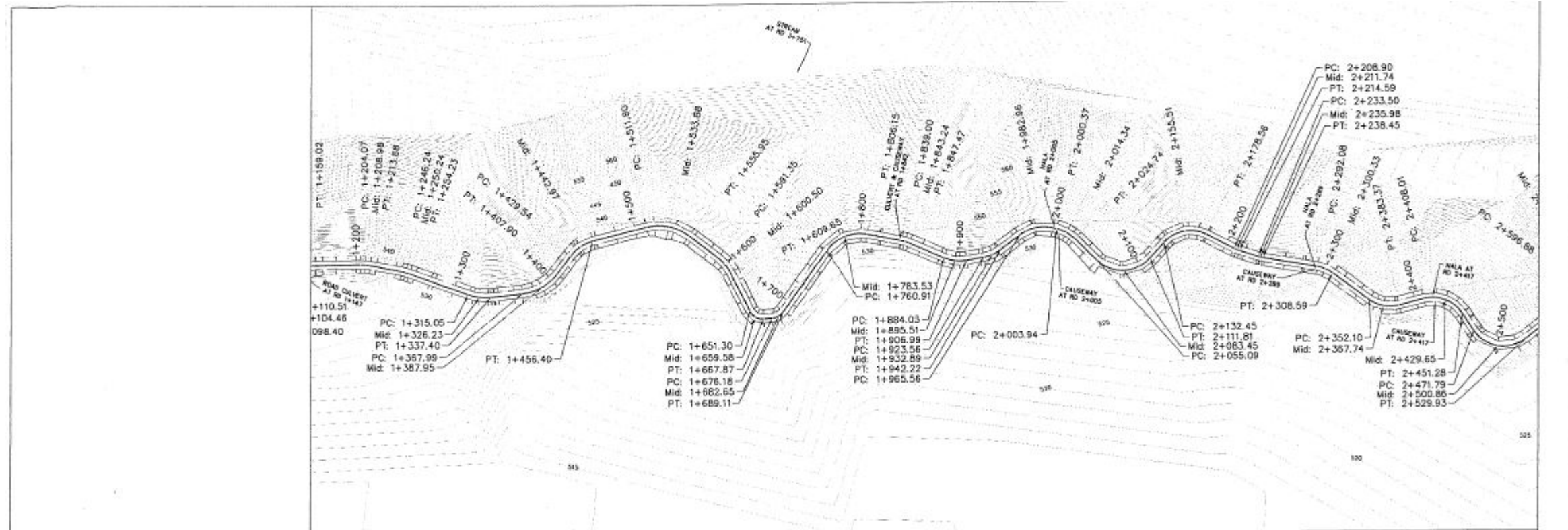
FS CONSULTANTS: CAMEOS

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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF LIFT SIDE ROAD**

DRG.No:-	TND-501	SHEET:-	01 OF 05	SCALE	DATE
		SUB SH:-	----	Shown	JANUARY 2021



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

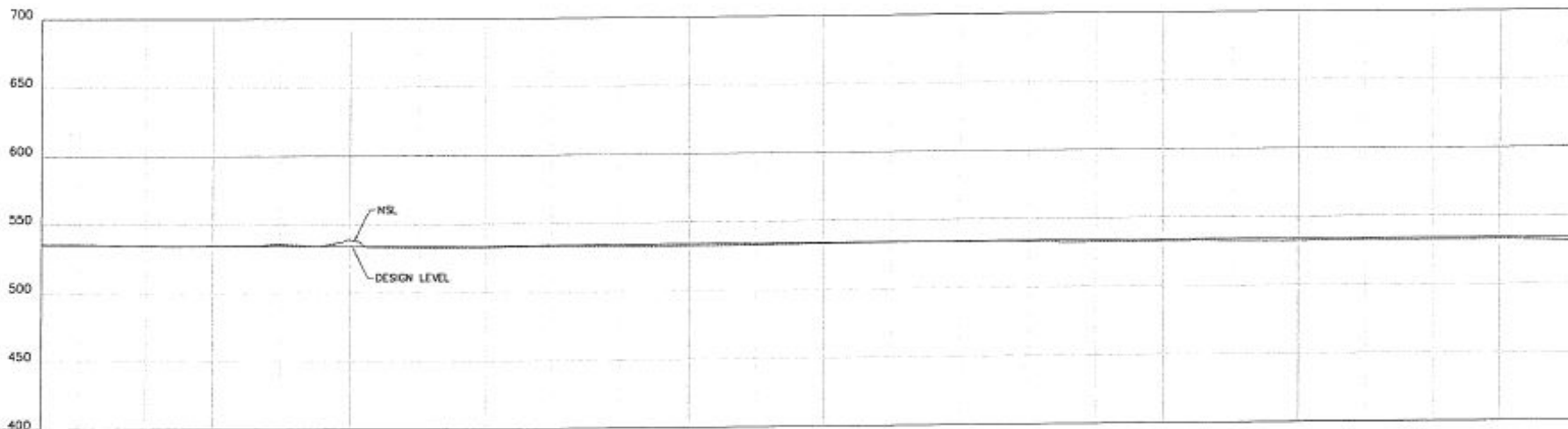
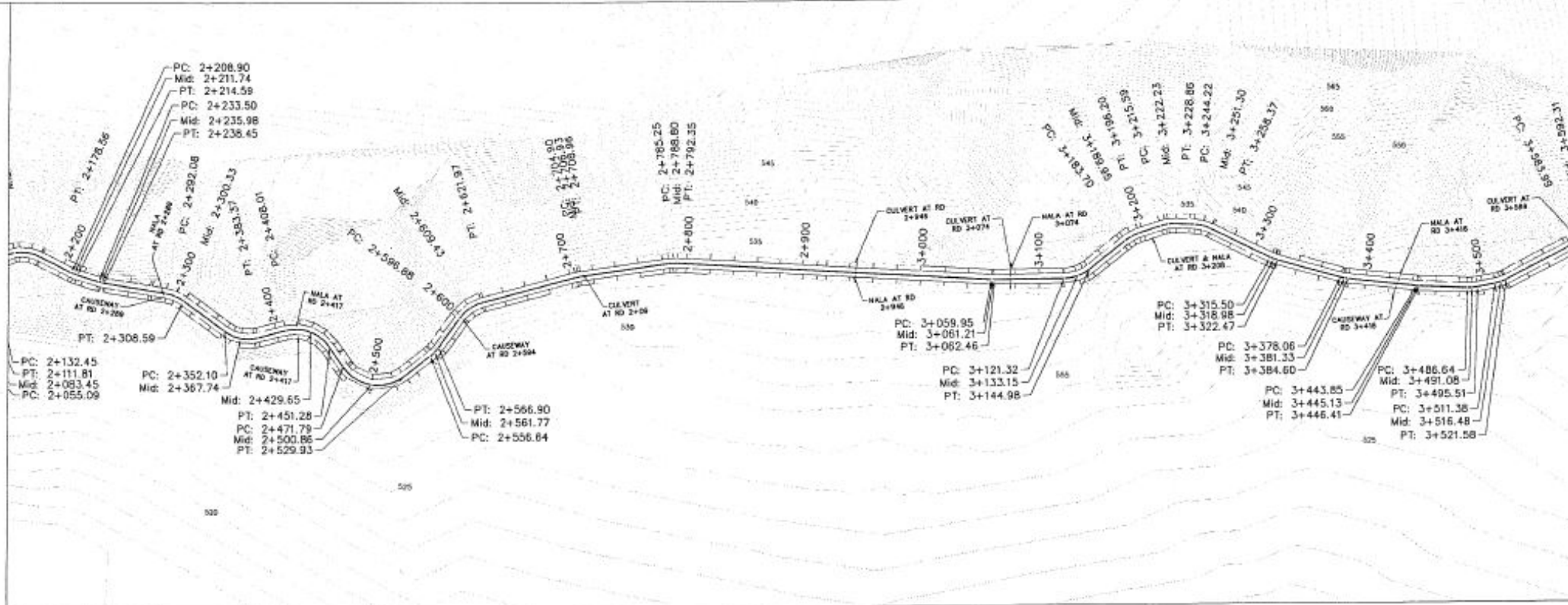
FS CONSULTANTS: CAMEOS

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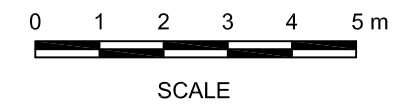
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN AND PROFILE OF LIFT SIDE ROAD


DRG.No:- TND-502	SHEET:- 02 OF 05	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----







DESIGN LEVEL	535.36	534.51	534.35	535.42	538.53	532.97	532.95	533.59	532.86	532.86	533.03	533.41	533.80	533.56	533.33	532.48	532.83	532.57	532.20	532.83	532.65	532.80	531.50
GROUND LEVEL	535.36	534.51	534.35	535.42	538.53	532.97	532.95	533.59	532.86	532.86	533.03	533.41	533.80	533.56	533.33	532.48	532.83	532.57	532.20	532.83	532.65	532.80	531.50
STATION	2+300	2+350	2+400	2+450	2+500	2+550	2+600	2+650	2+700	2+750	2+800	2+850	2+900	2+950	3+000	3+050	3+100	3+150	3+200	3+250	3+300	3+350	3+400



TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

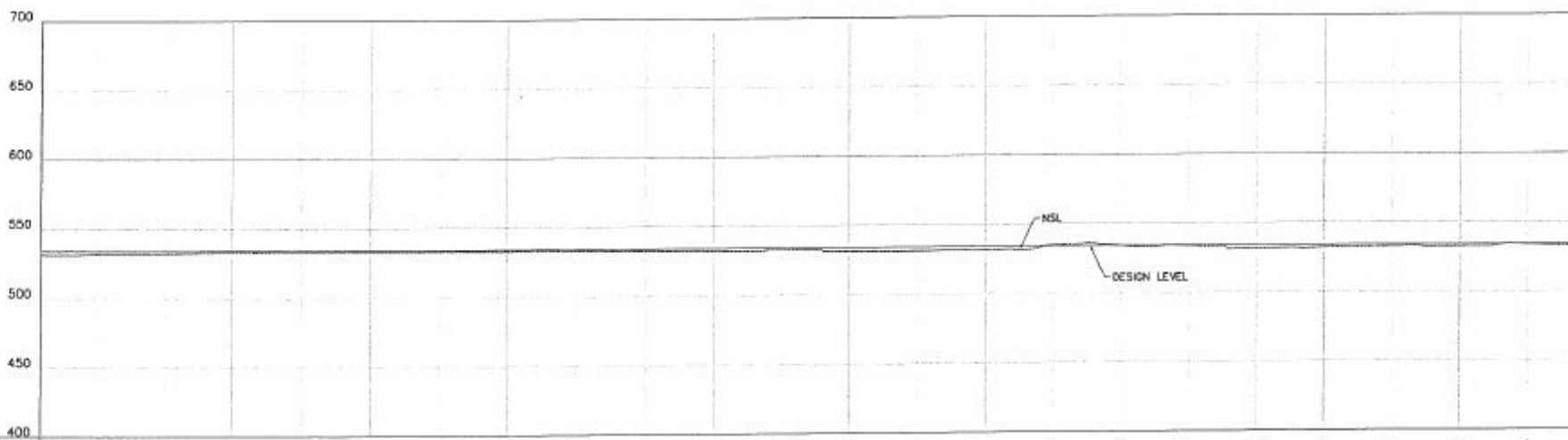
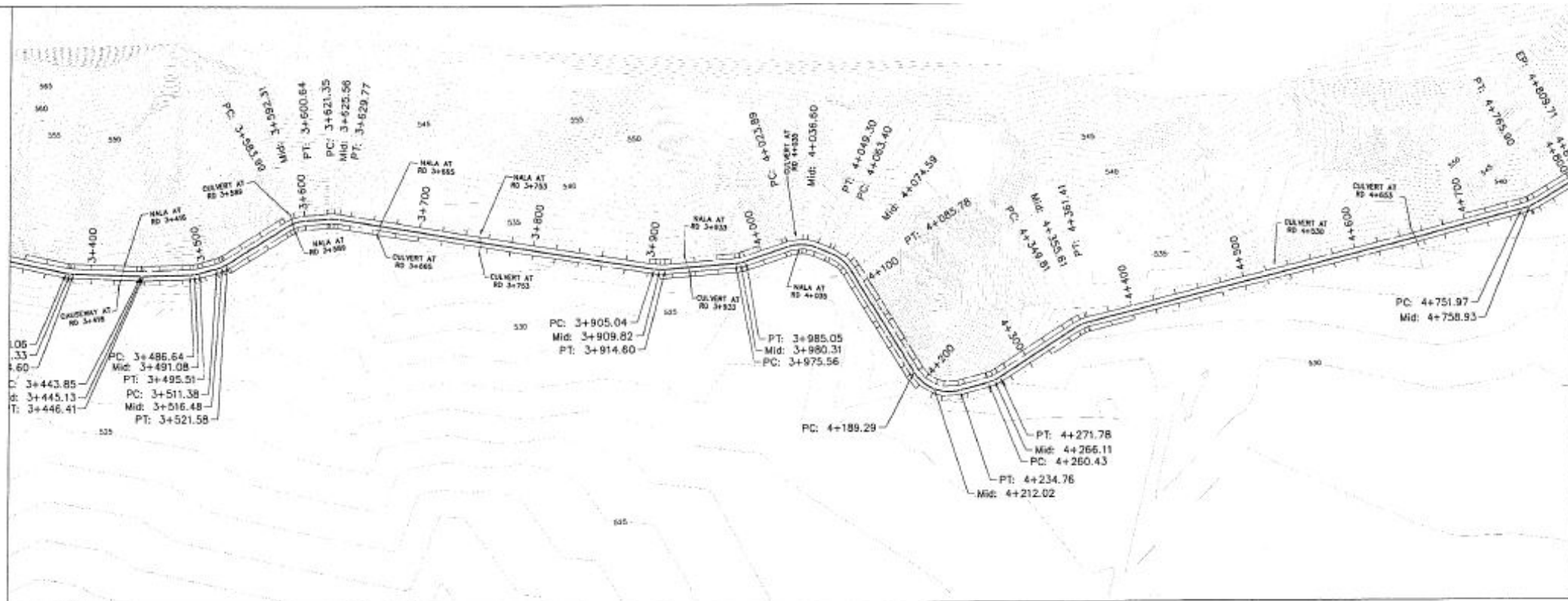
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

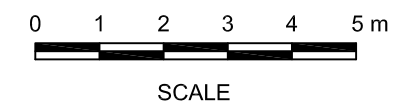
TITLE:  
**PLAN AND PROFILE OF LIFT SIDE ROAD**

DRG.No:-	TND-503	SHEET:-	03 OF 05	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----






DESIGN LEVEL	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500
DESIGN LEVEL	531.70	532.28	532.97	533.43	533.43	533.40	533.06	532.88	532.45	532.22	533.19	531.29	531.18	531.33	534.63	534.09	533.58	531.33	531.79	532.66	532.42	533.83	533.83
GROUND LEVEL	531.70	532.28	532.97	533.43	533.43	533.40	533.06	532.88	532.45	532.22	533.19	531.29	531.18	531.33	534.63	534.09	533.58	531.33	531.79	532.66	532.42	533.83	533.83
STATION	3+400	3+450	3+500	3+550	3+600	3+650	3+700	3+750	3+800	3+850	3+900	3+950	4+000	4+050	4+100	4+150	4+200	4+250	4+300	4+350	4+400	4+450	4+500



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

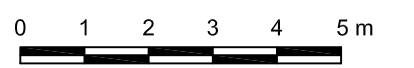
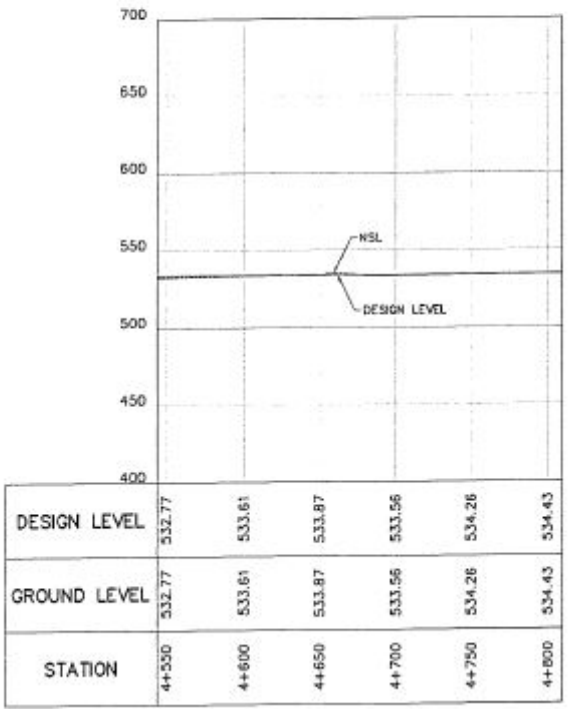
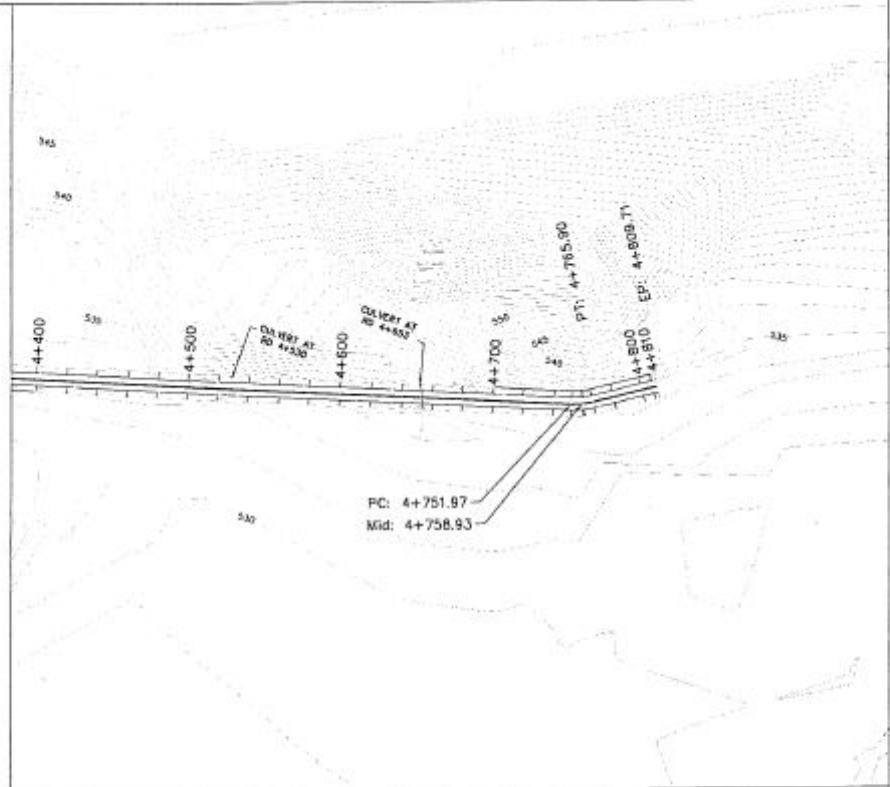
FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF LIFT SIDE ROAD**


DRG.No:-	TND-504	SHEET:-	04 OF 05	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----






SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

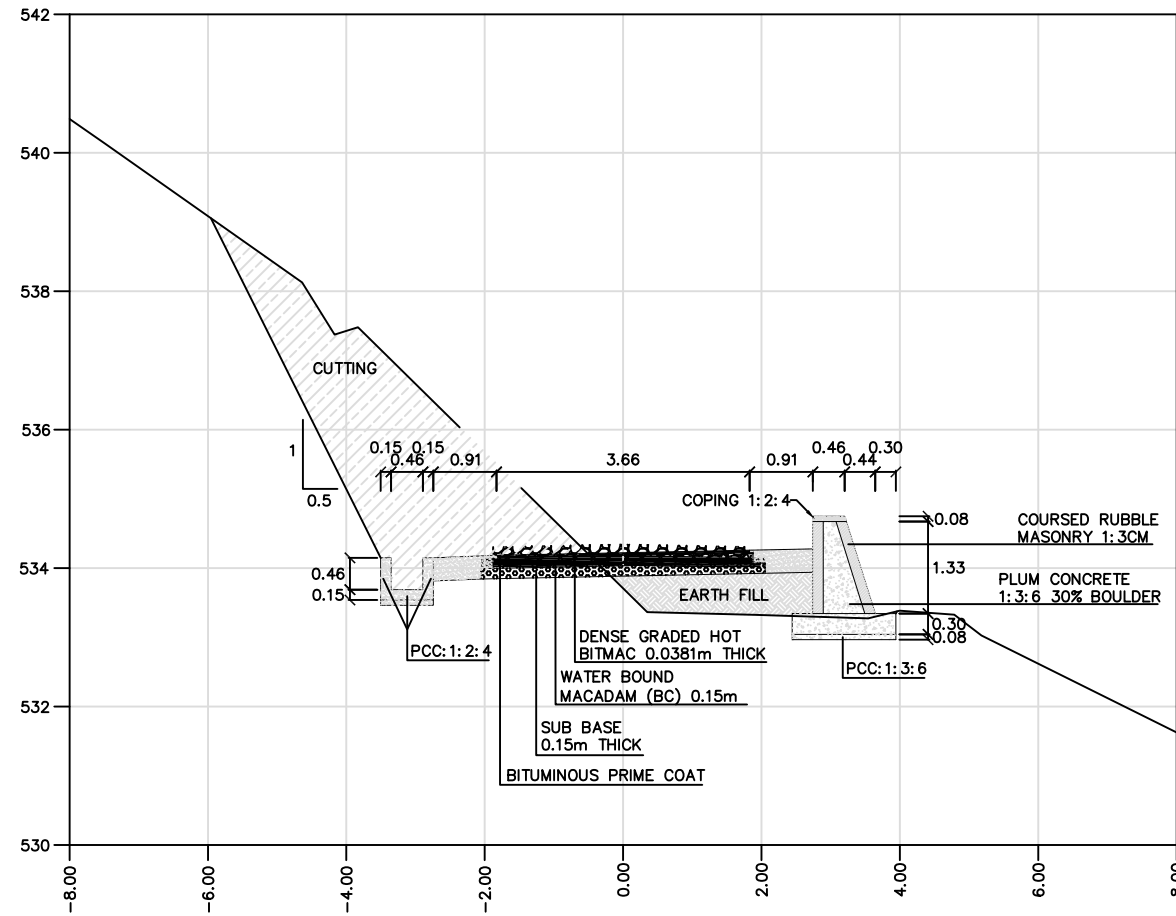
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

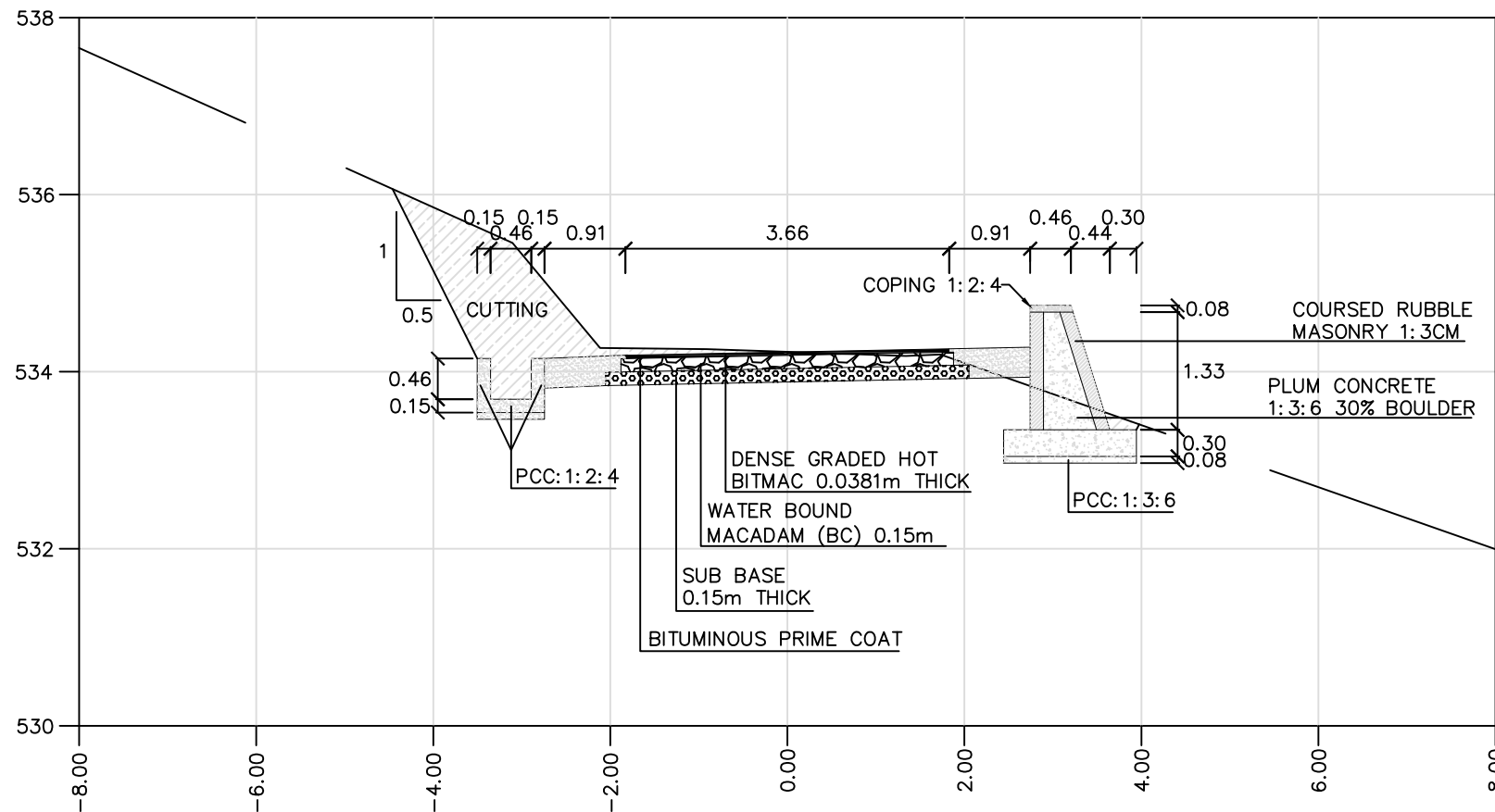
TITLE:  
**PLAN AND PROFILE OF LIFT SIDE ROAD**

DRG.No:- TND-505	SHEET:- 05 OF 05	SUB SH.-	SCALE	DATE
			Shown	JANUARY 2021

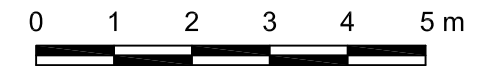
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TYPICAL X-SECTION AT RD 0+050




TYPICAL X-SECTION AT RD 0+600






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

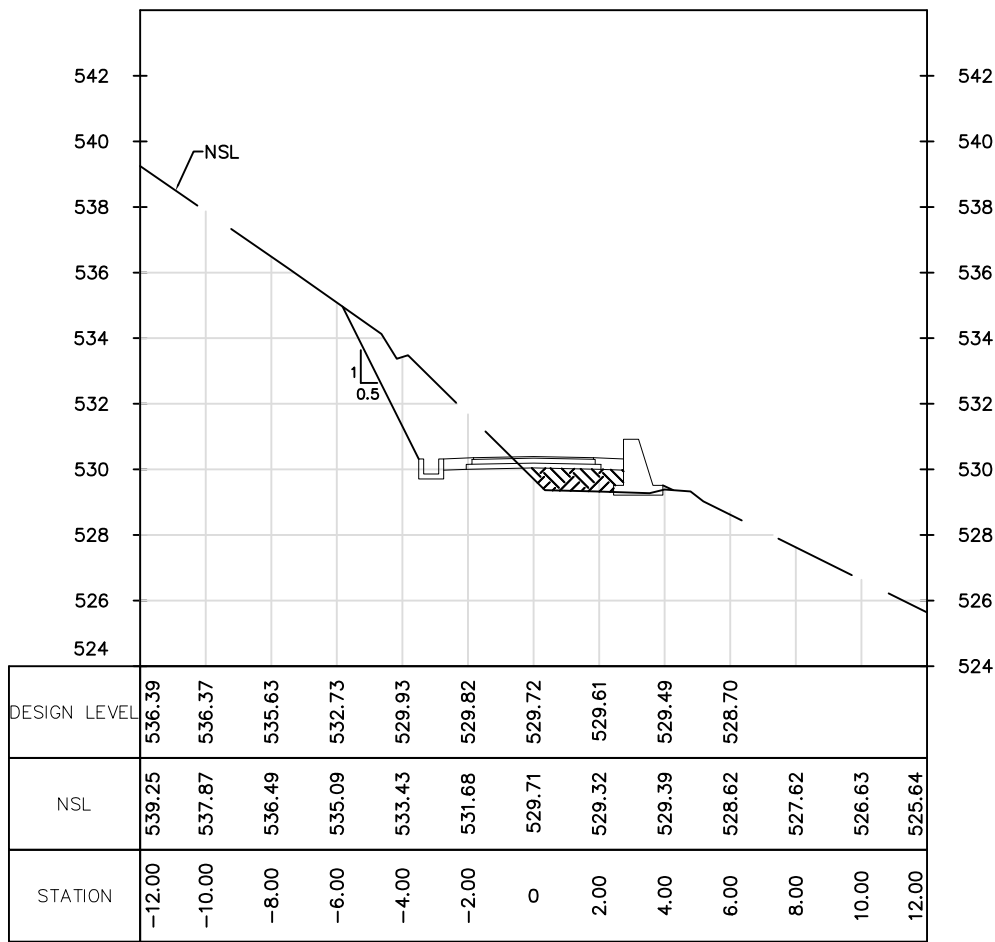
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**TYPICAL CROSS SECTIONS OF ROAD**

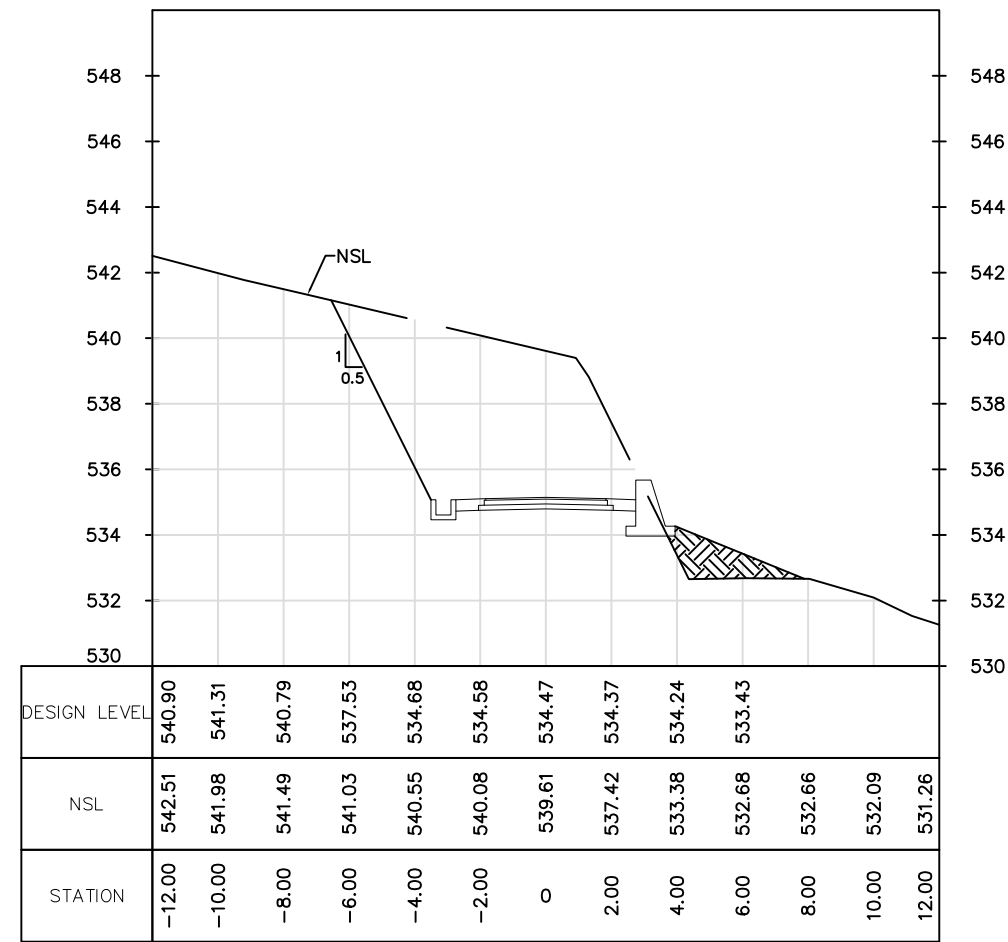
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-506 SHEET:- 1 OF 01 SUB SH.- ----

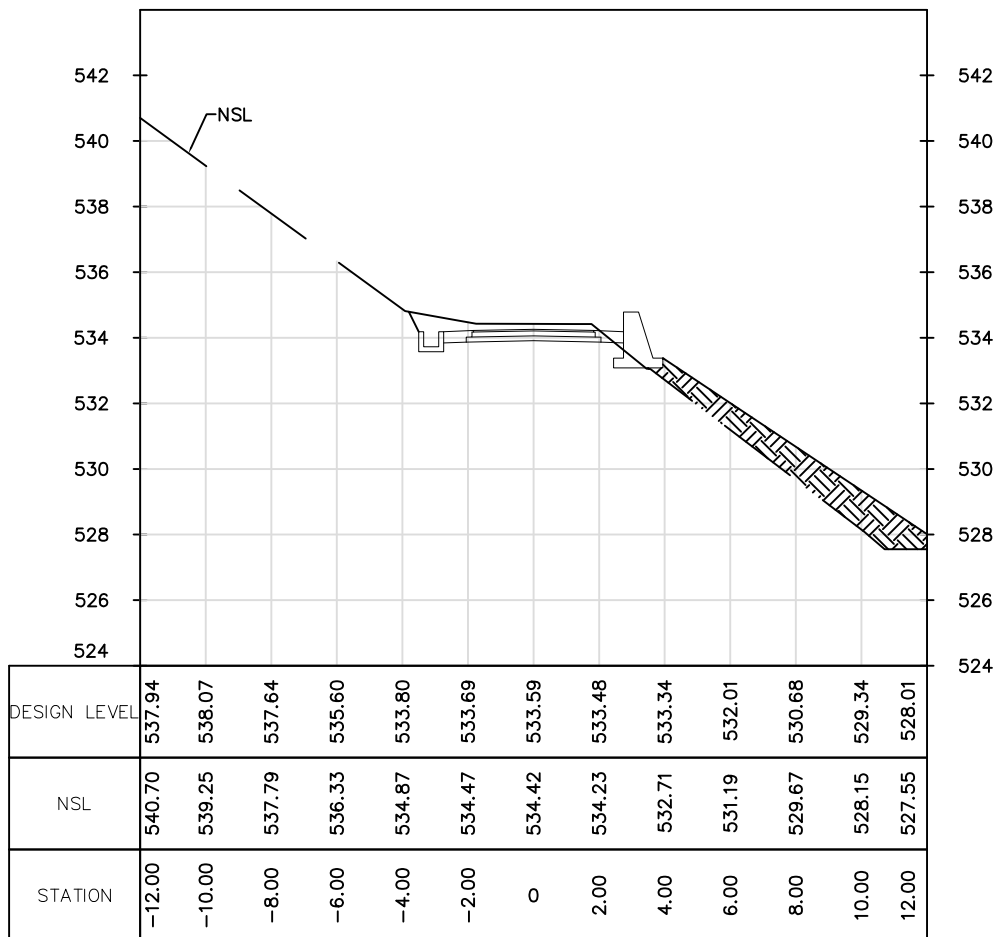
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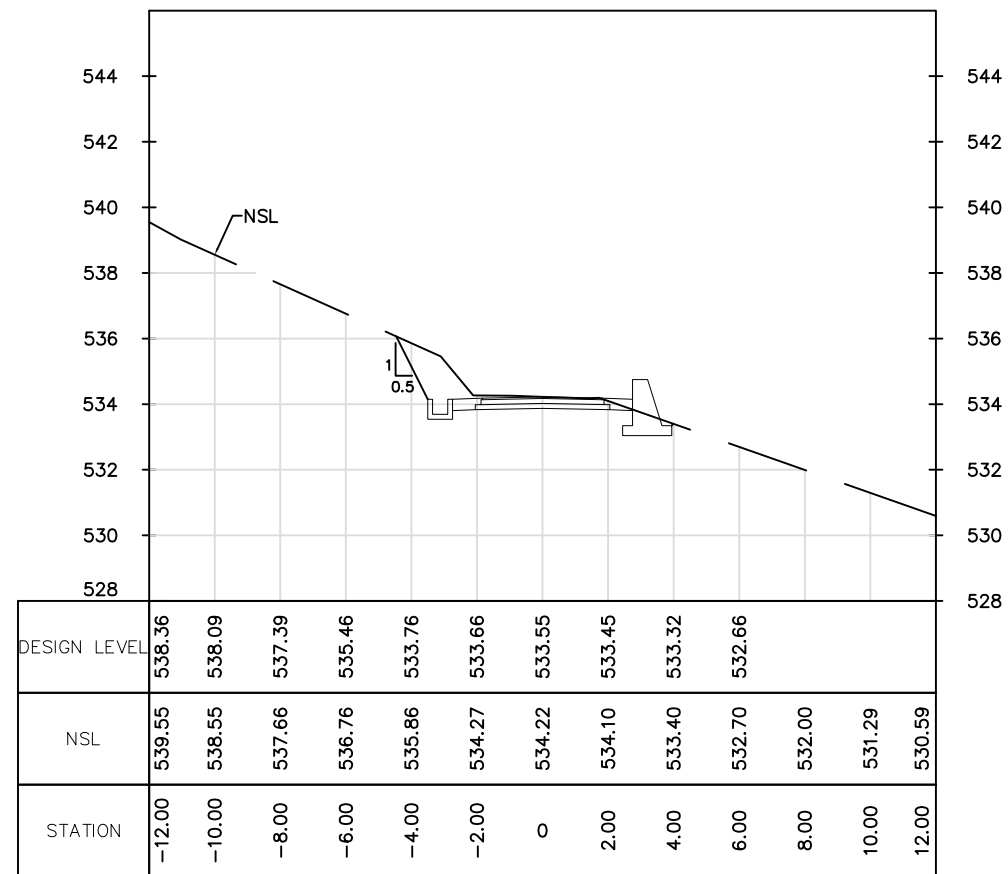
AT RD 0+050



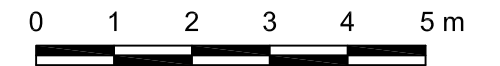
AT RD 0+200



AT RD 0+400



AT RD 0+600



SCALE

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CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

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IN ASSOCIATION WITH:  
 **ETA** ENGINEERING & TECHNICAL ASSOCIATES

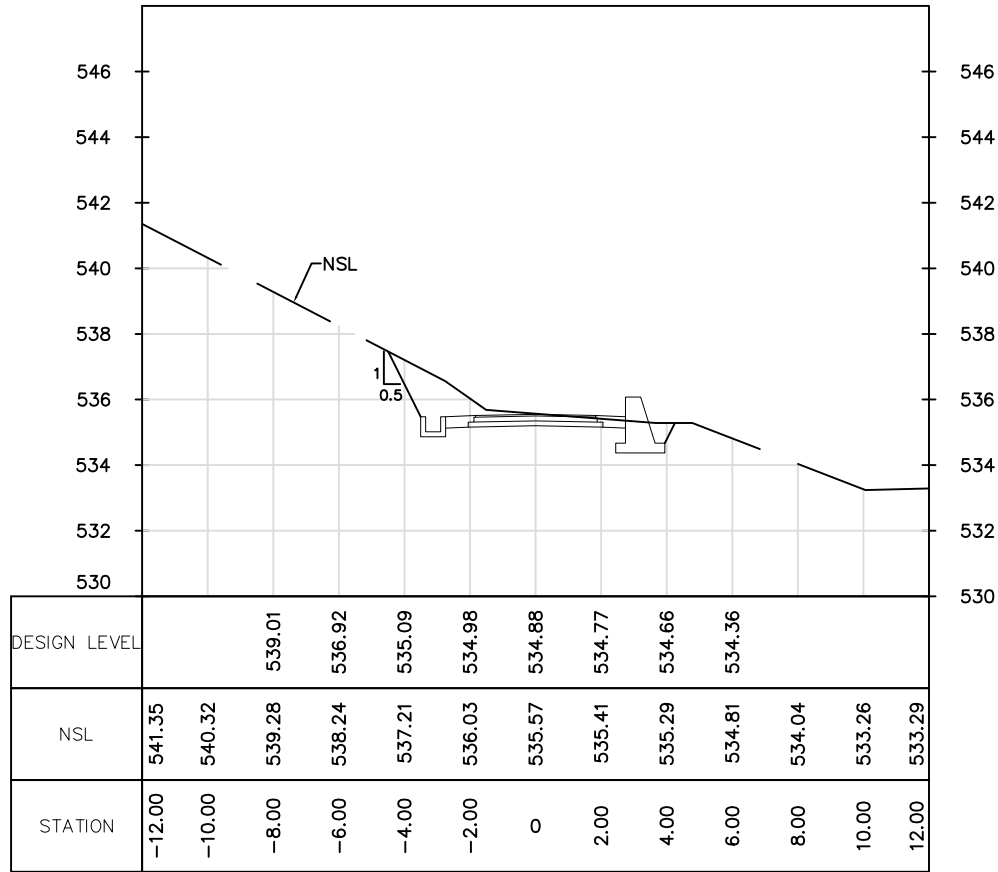
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**CROSS SECTIONS OF  
ROAD**

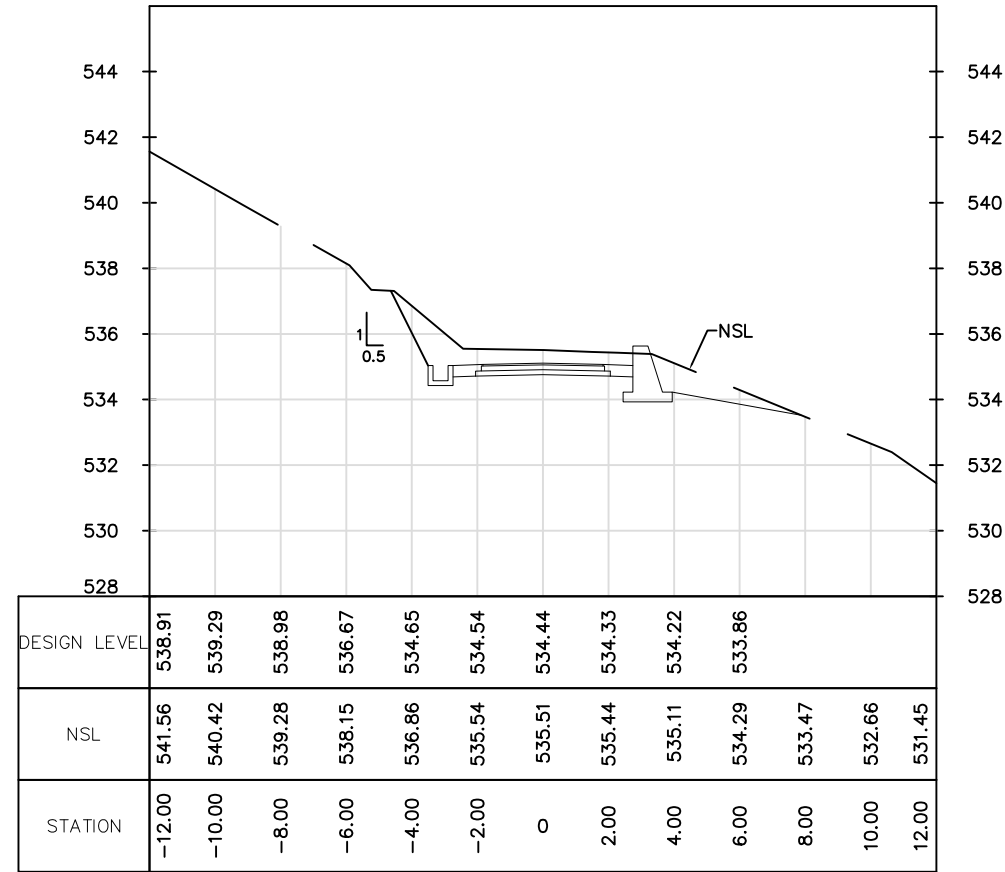
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-507 SHEET:- 1 OF 01 SUB SH.- ----

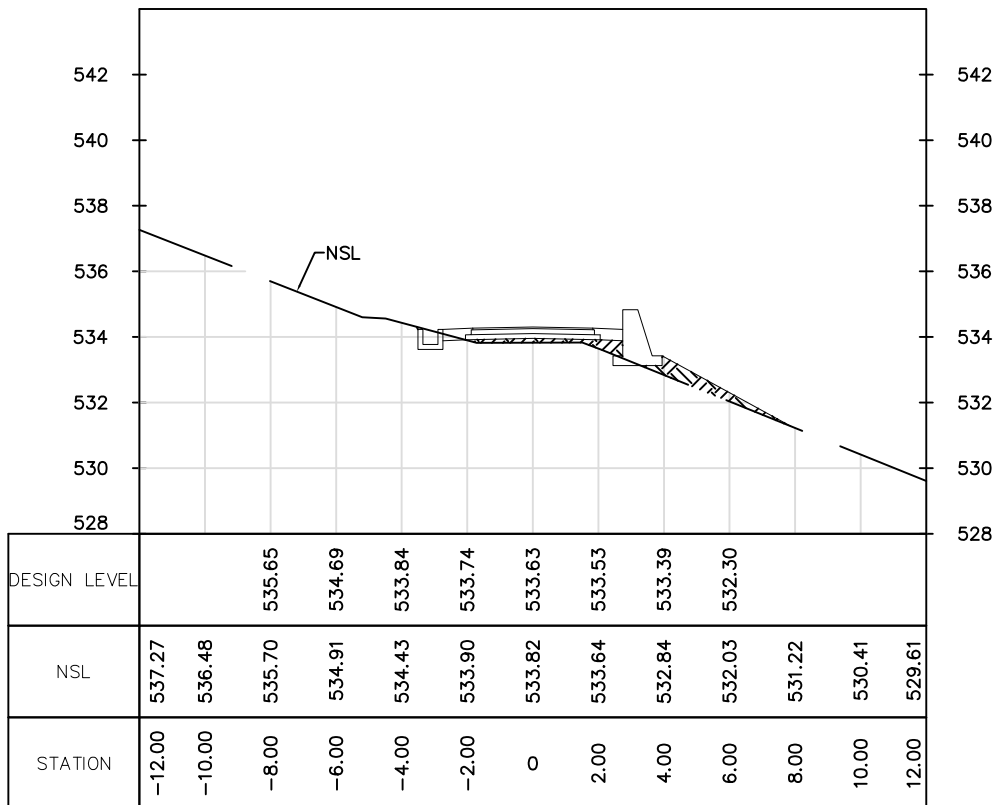
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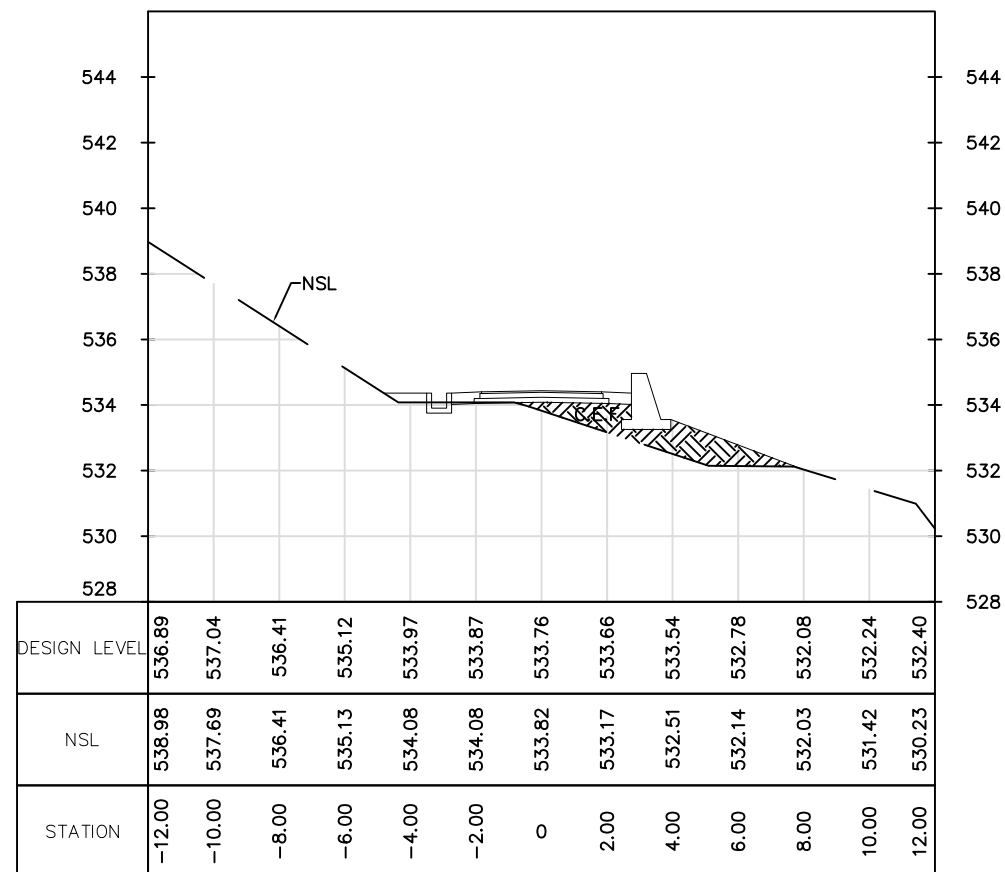
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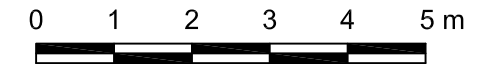
AT RD 1+000



AT RD 1+200



AT RD 1+400



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

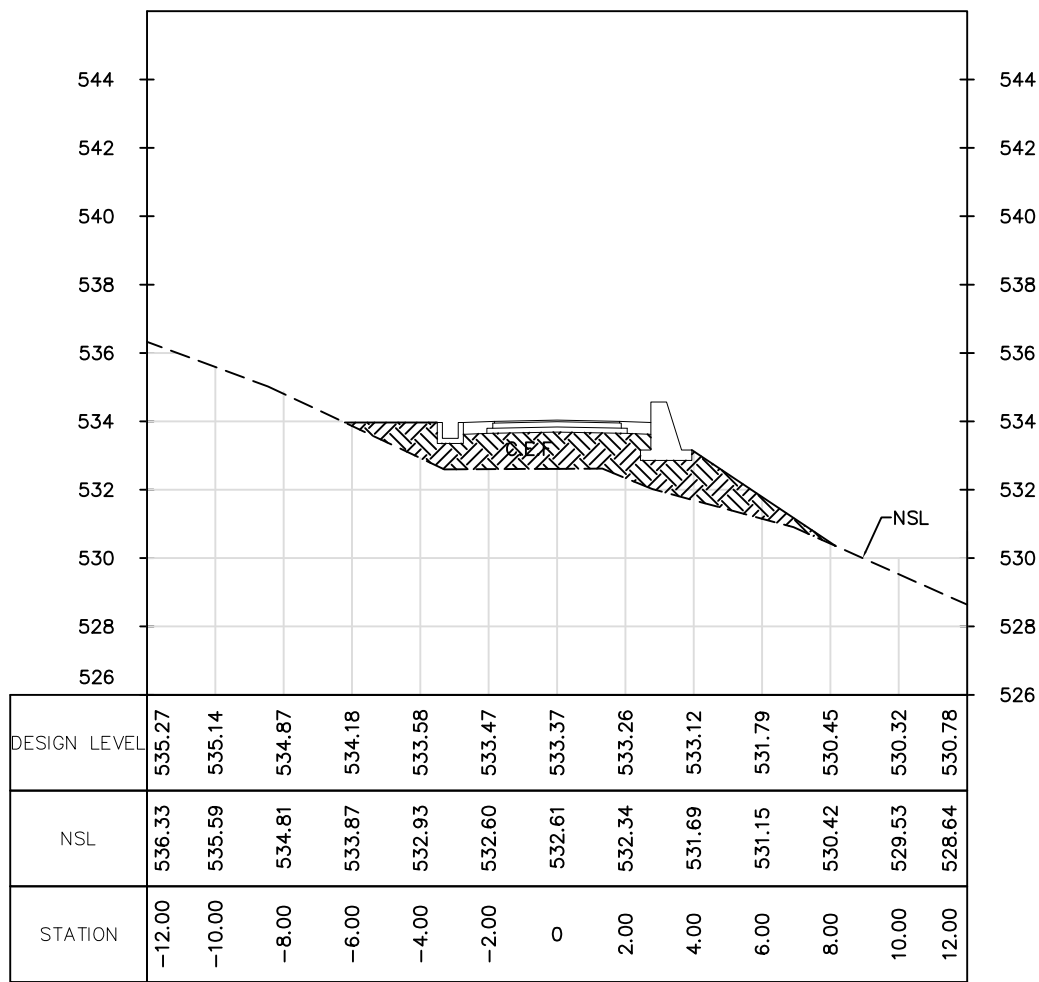
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

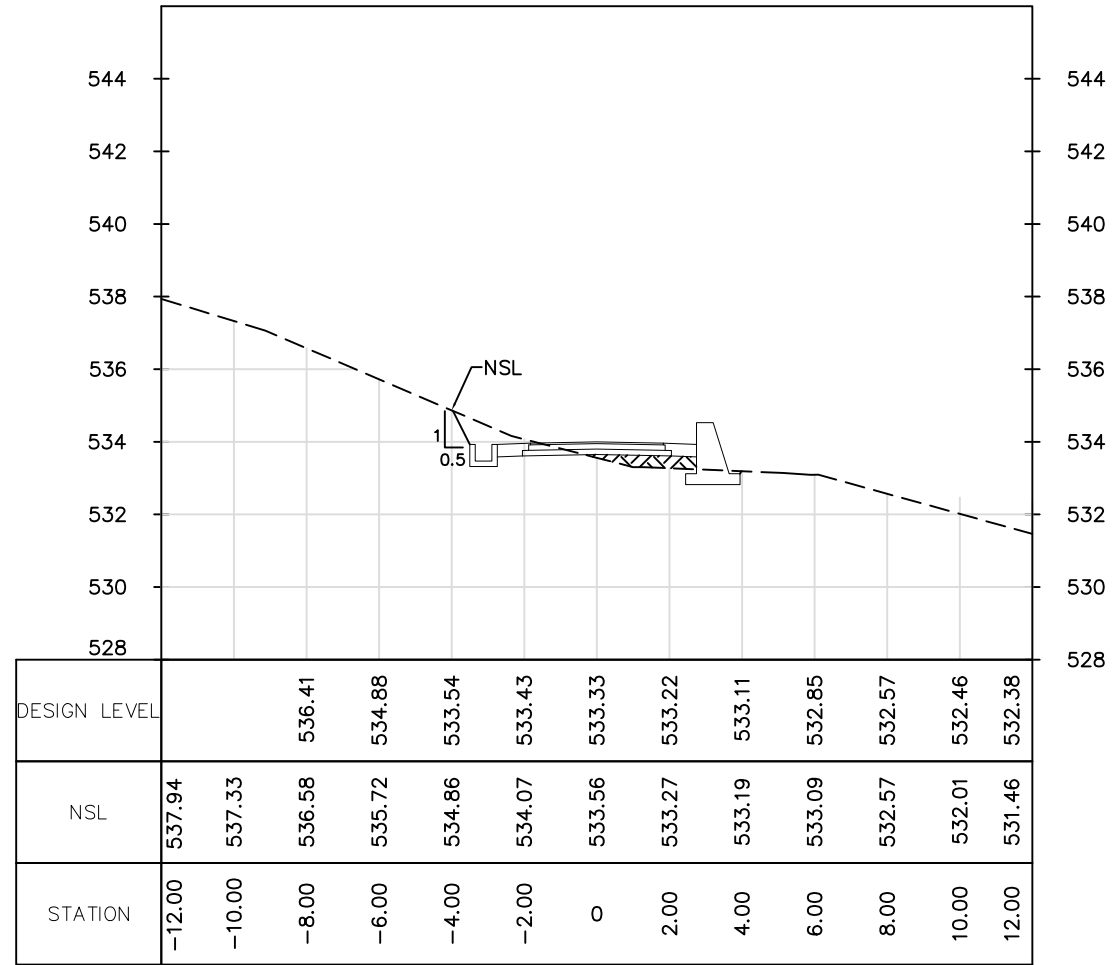
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DRG.No:- TND-508	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.:-	----

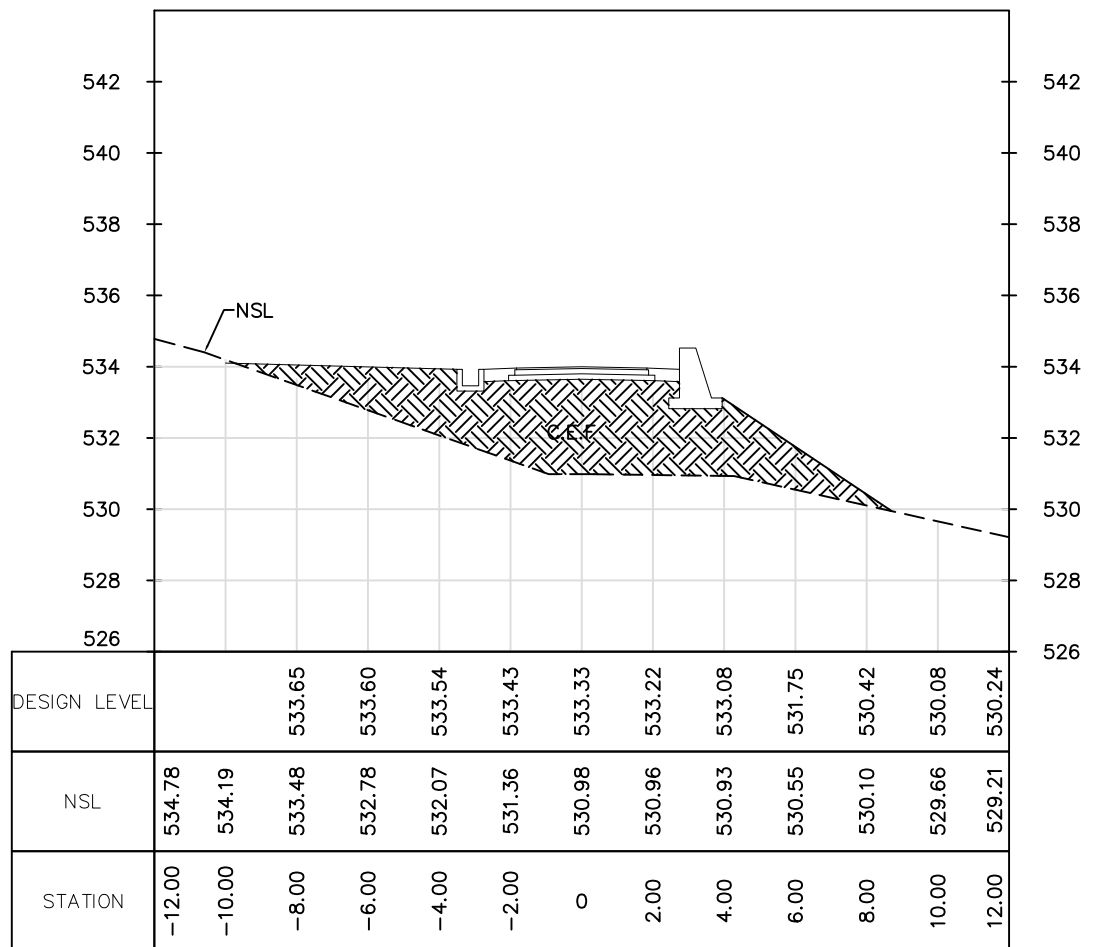
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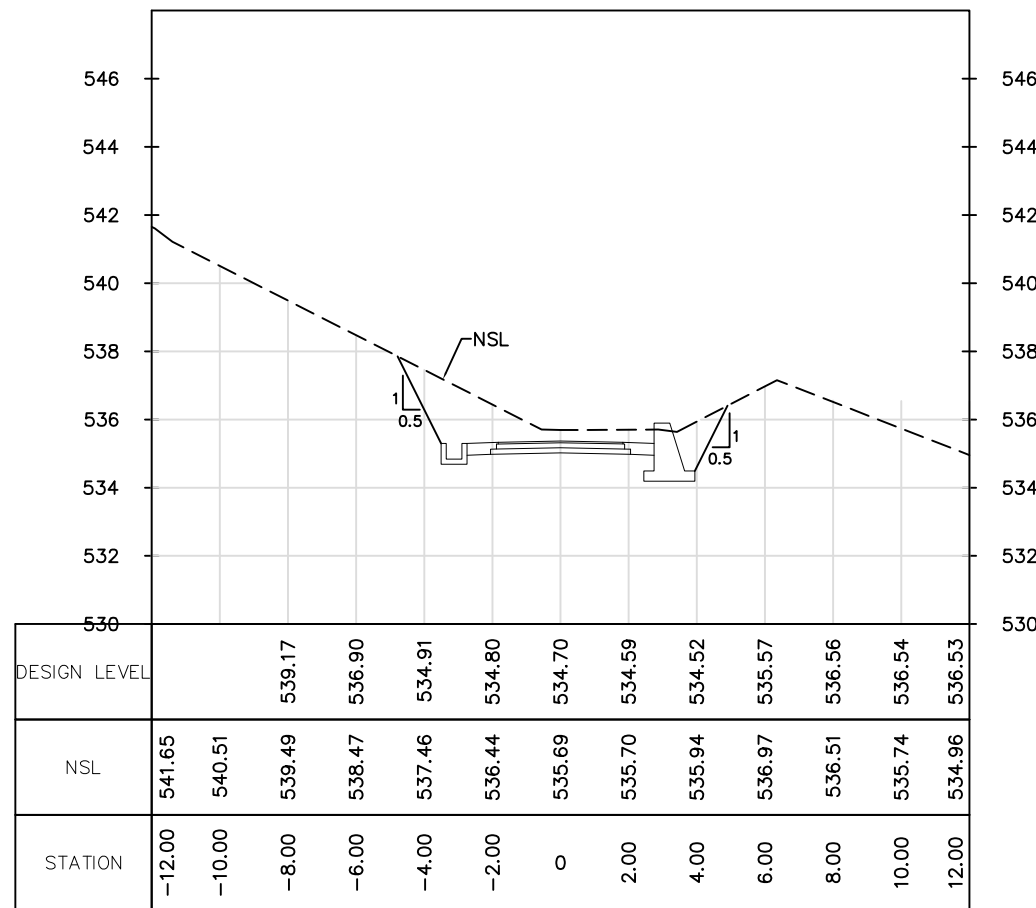
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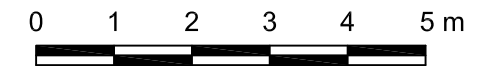
AT RD 1+800



AT RD 2+000




AT RD 2+200






SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

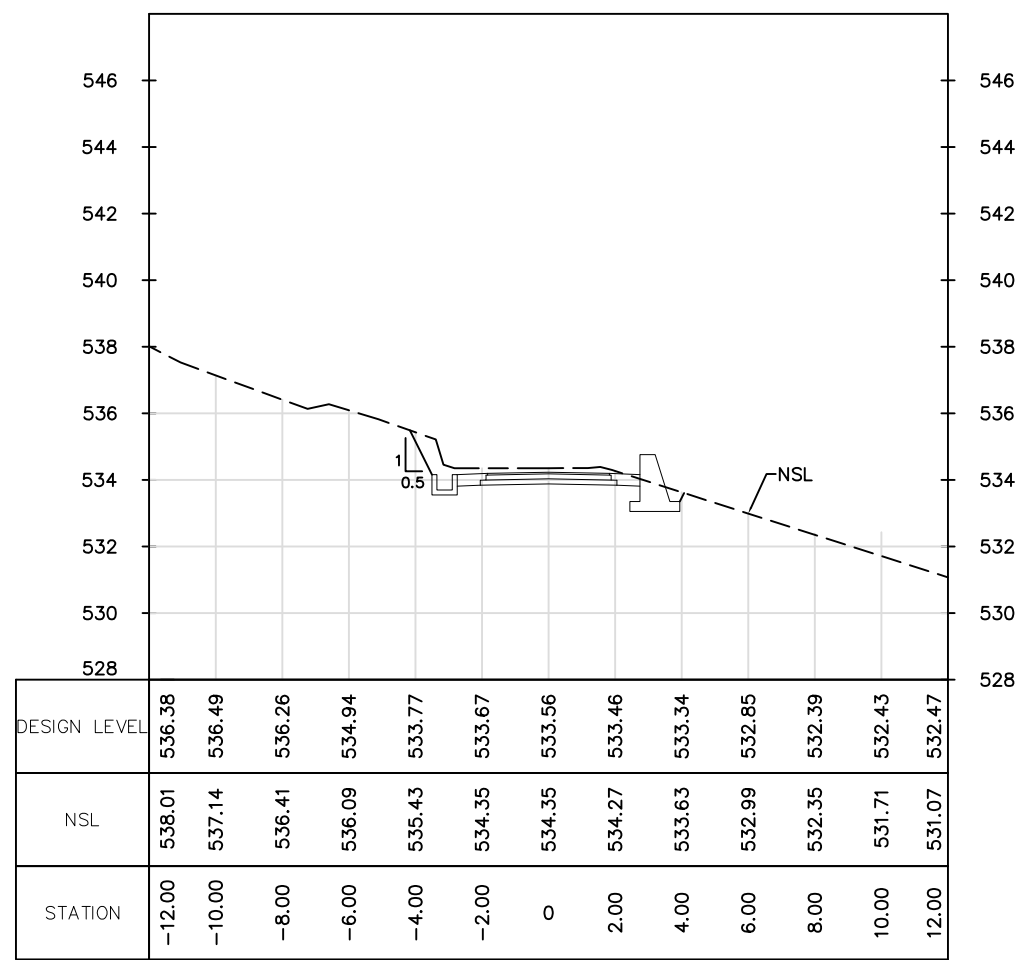
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IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

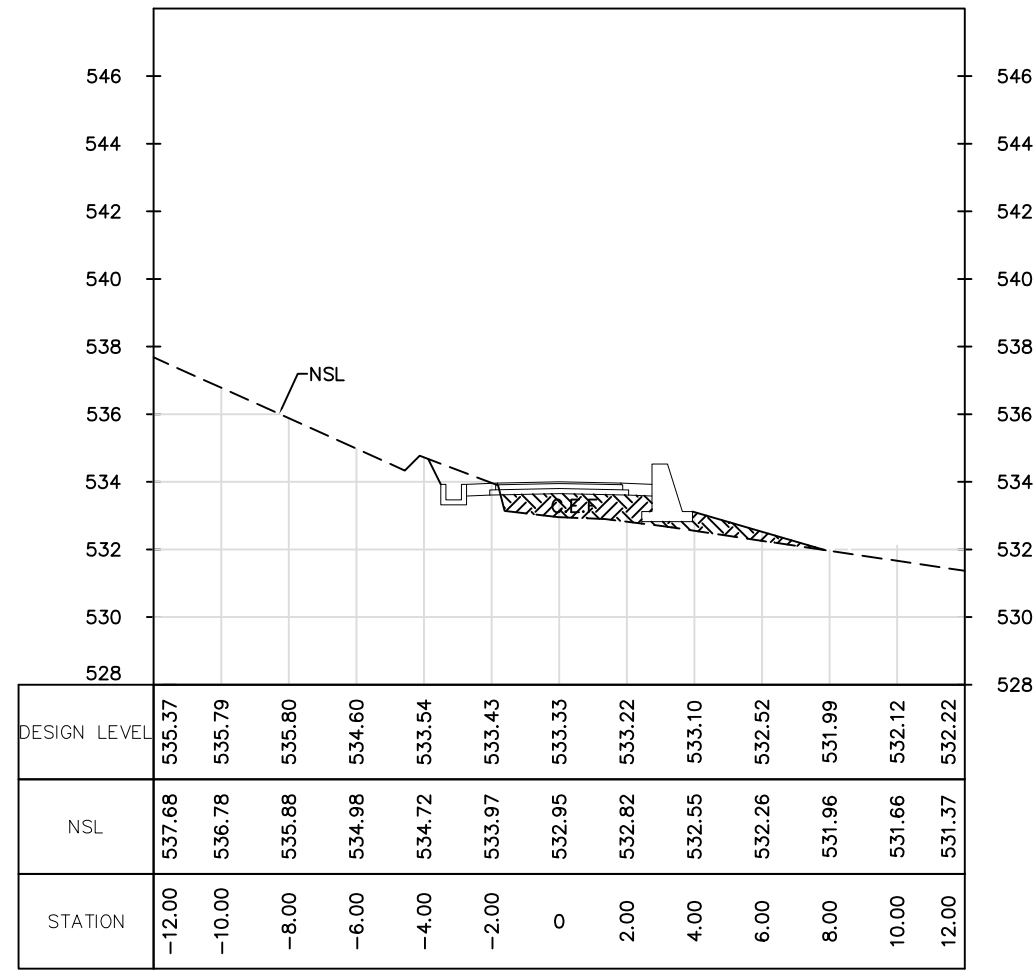
TITLE:  
**CROSS SECTIONS OF  
ROAD**

DRG.No:- TND-509	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.-	----

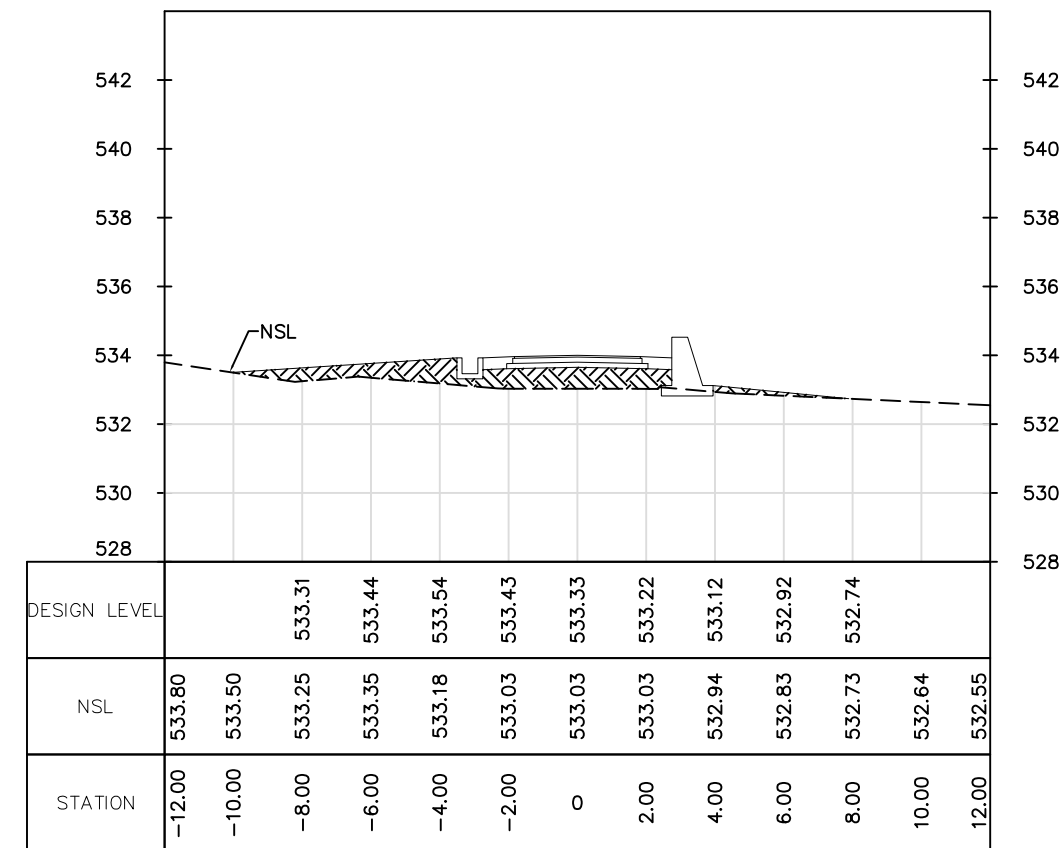
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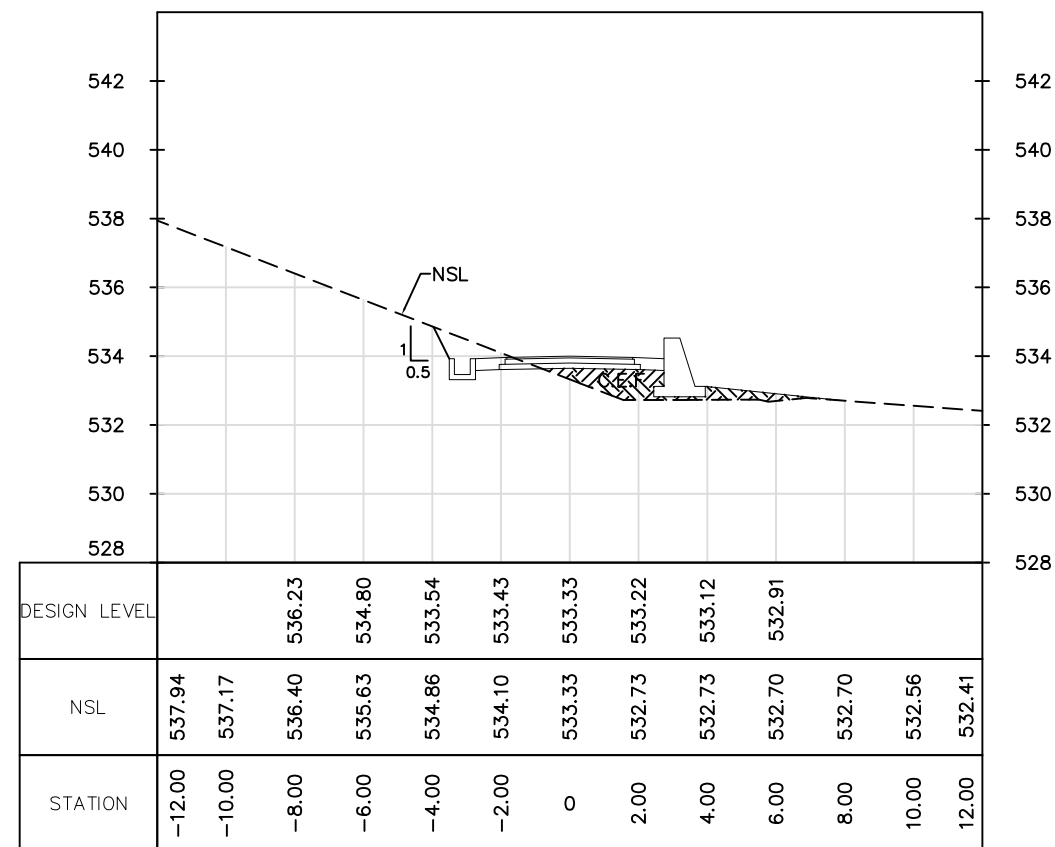
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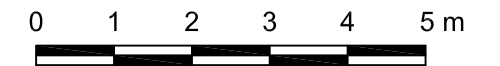
AT RD 2+600



AT RD 2+800




AT RD 3+000






SCALE

TENDER DRAWING

CLIENT:  **KOCHAT IRRIGATION DIVISION KOCHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  **CAMEOS**

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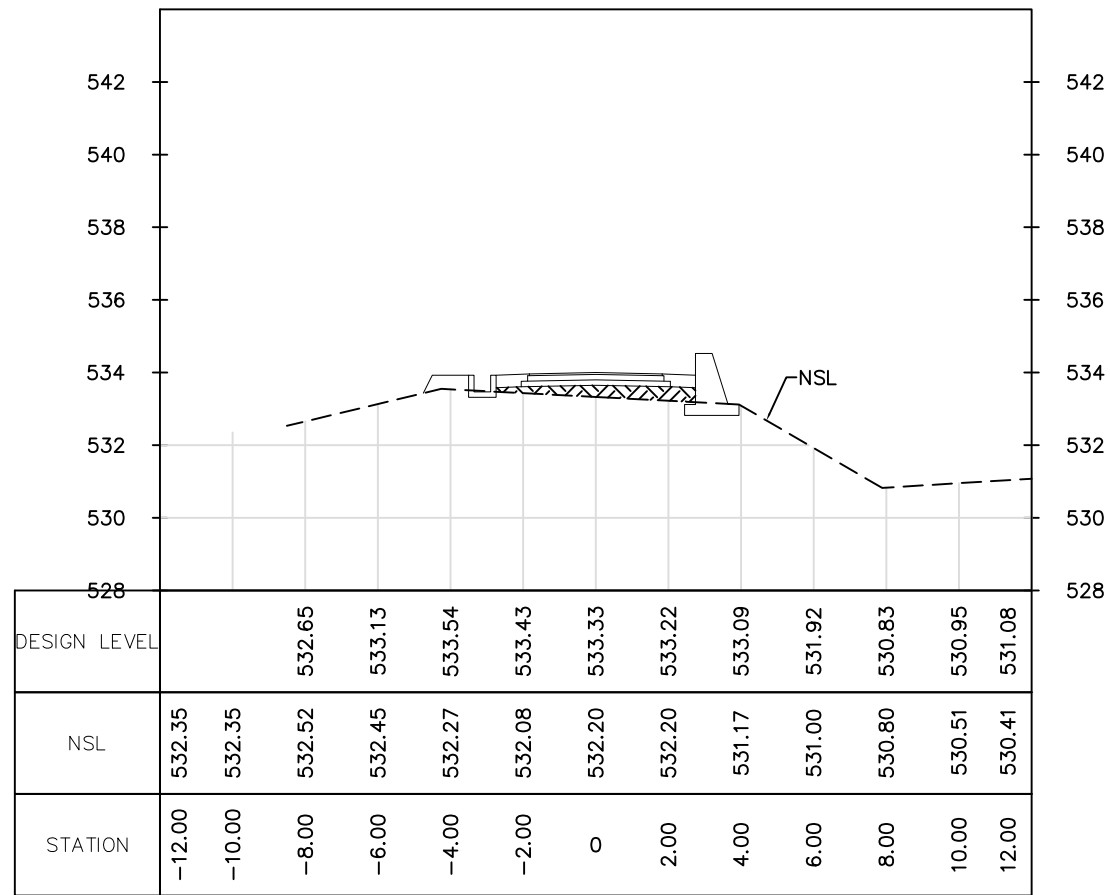
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOCHAT

TITLE: **CROSS SECTIONS OF ROAD**

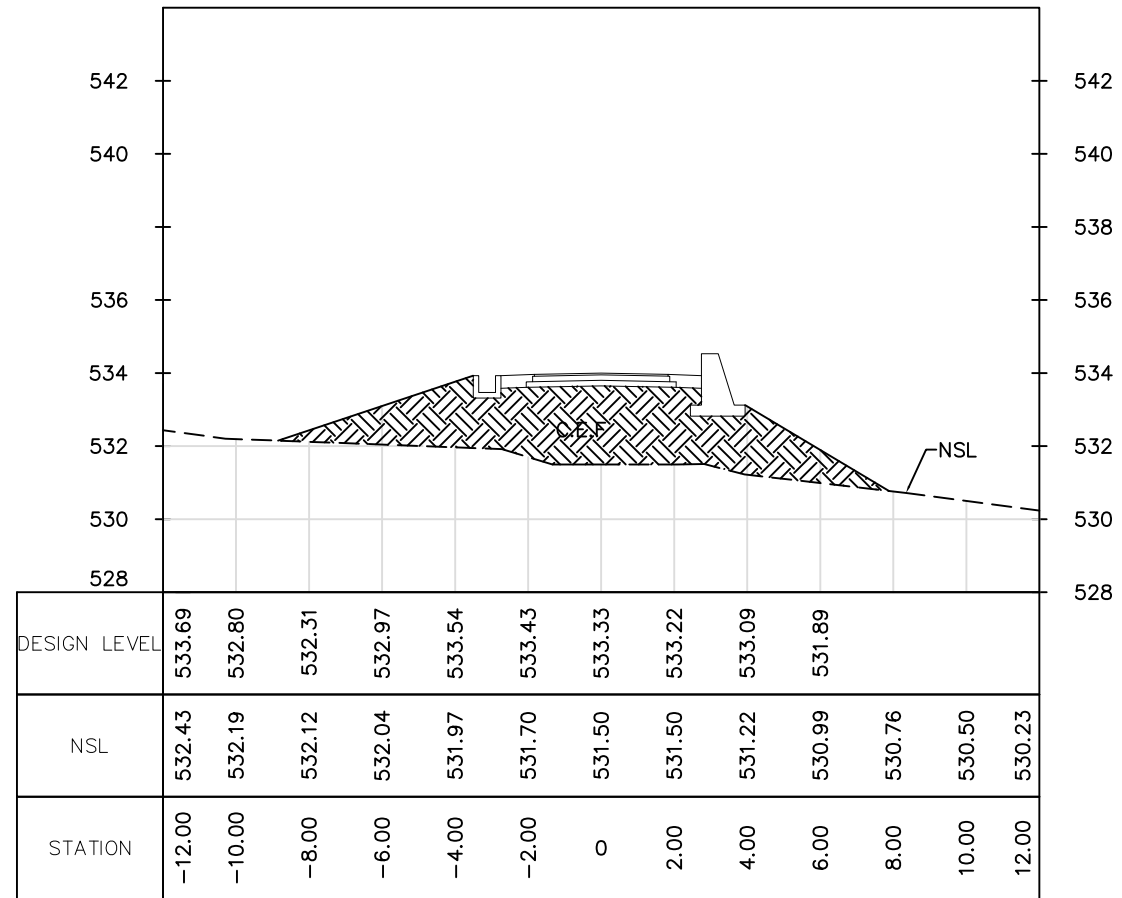
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-510 SHEET:- 1 OF 01 SUB SH.-: ----

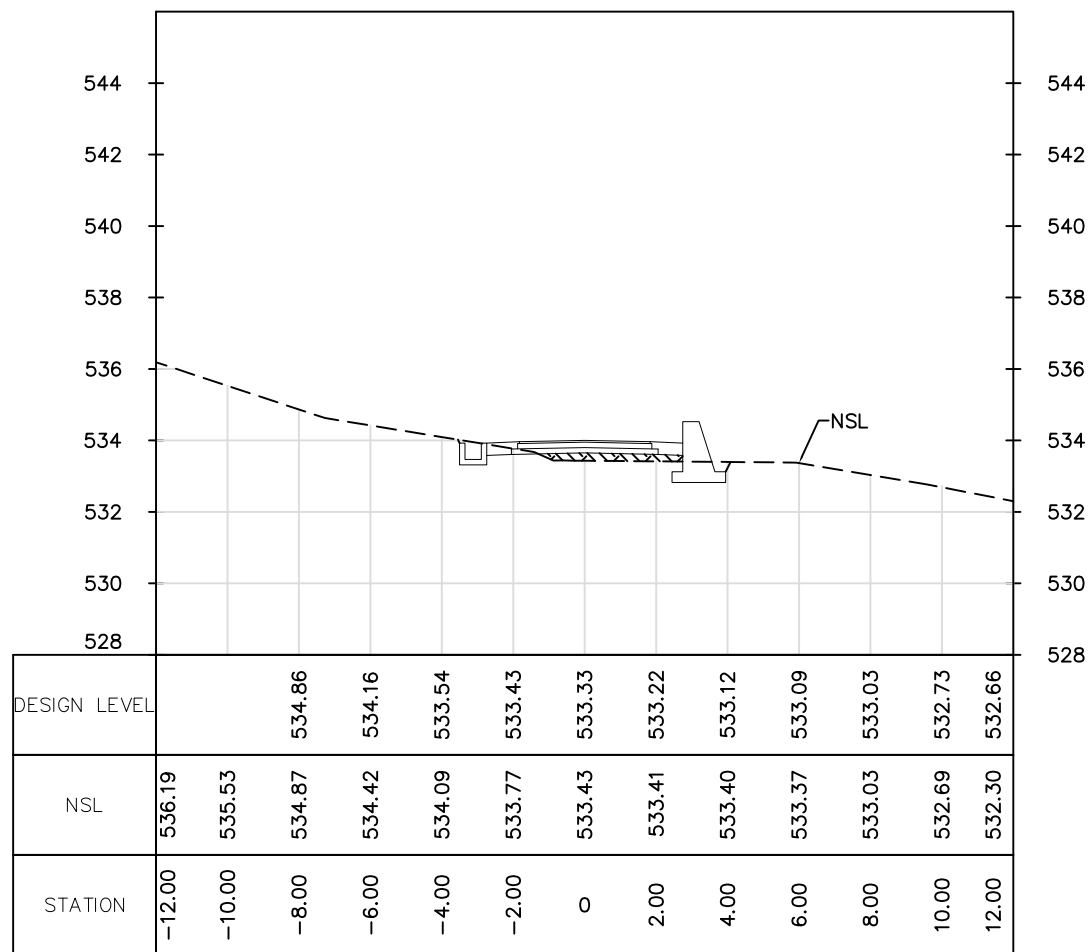
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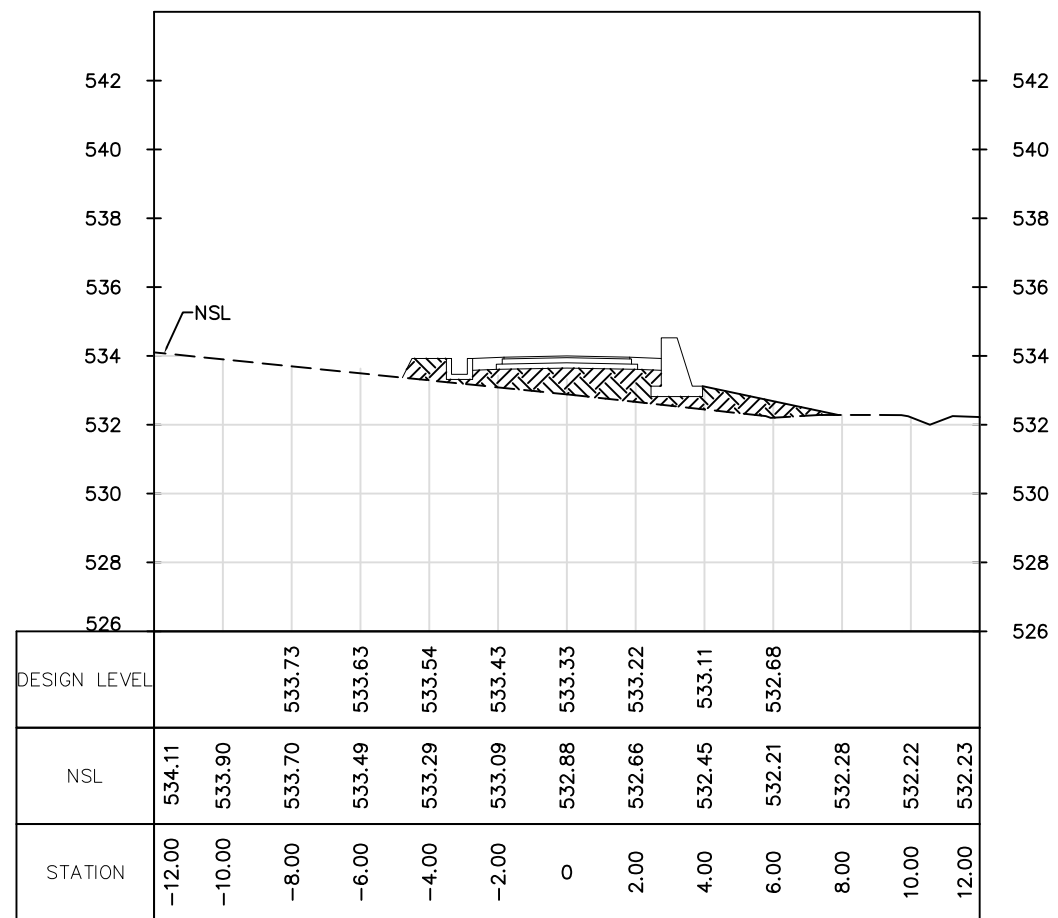
AT RD 3+200



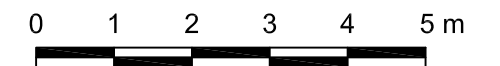
AT RD 3+400



AT RD 3+600




AT RD 3+800






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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IN ASSOCIATION WITH:  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

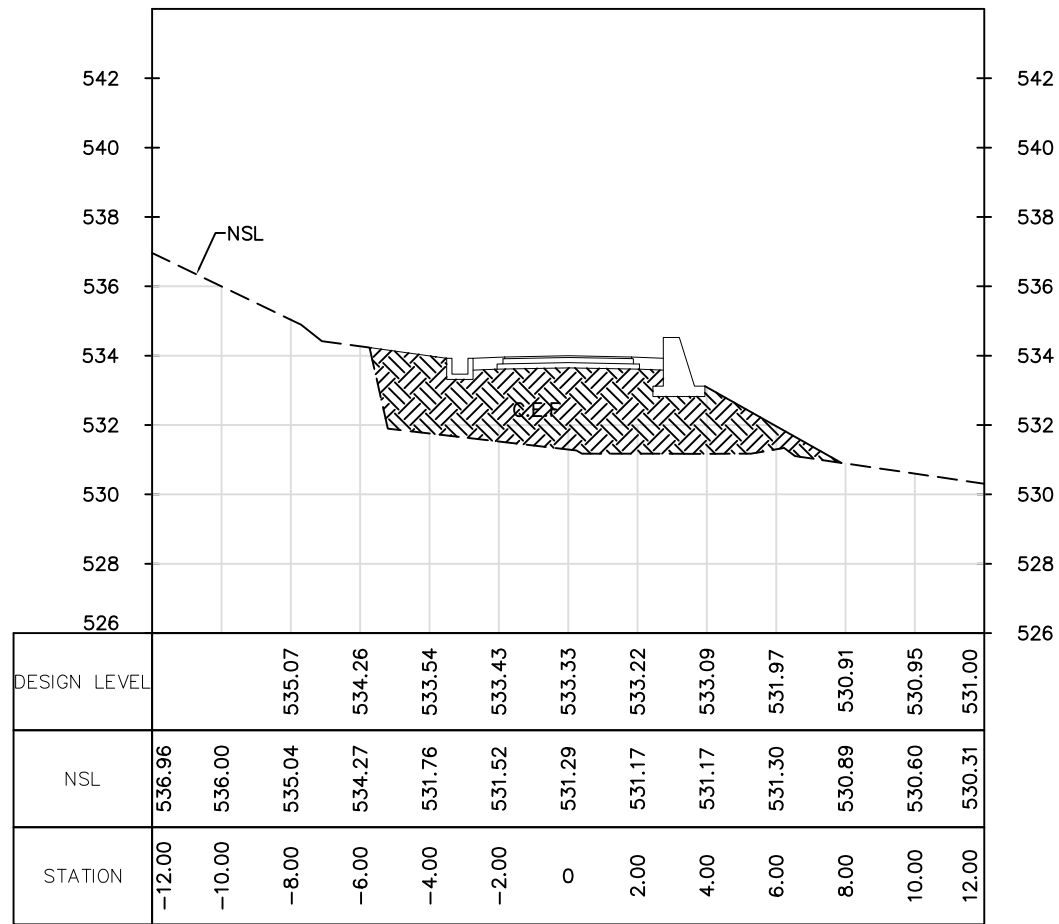
TITLE:  
**CROSS SECTIONS OF  
 ROAD**

SCALE	DATE
Shown	JANUARY / 2021

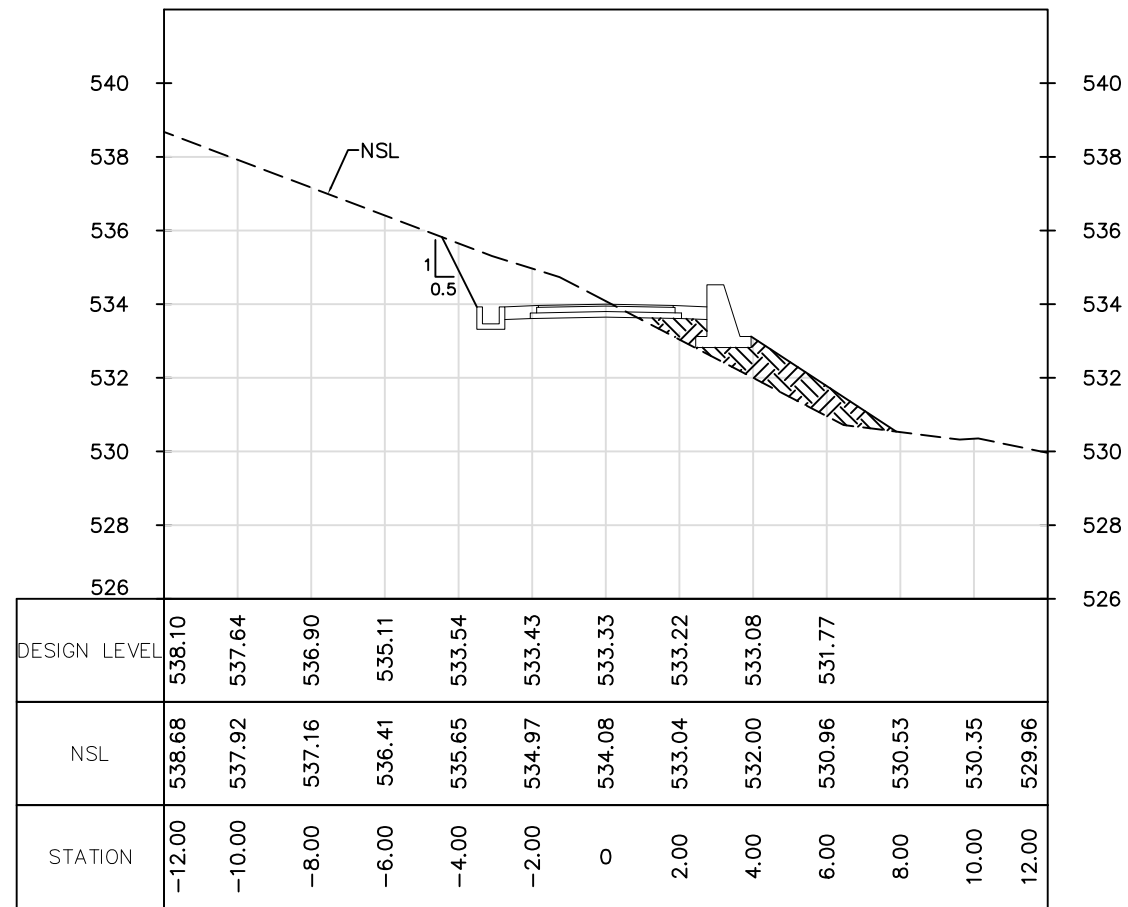
DRG.No:- TND-511 SHEET:- 1 OF 01 SUB SH.- ----



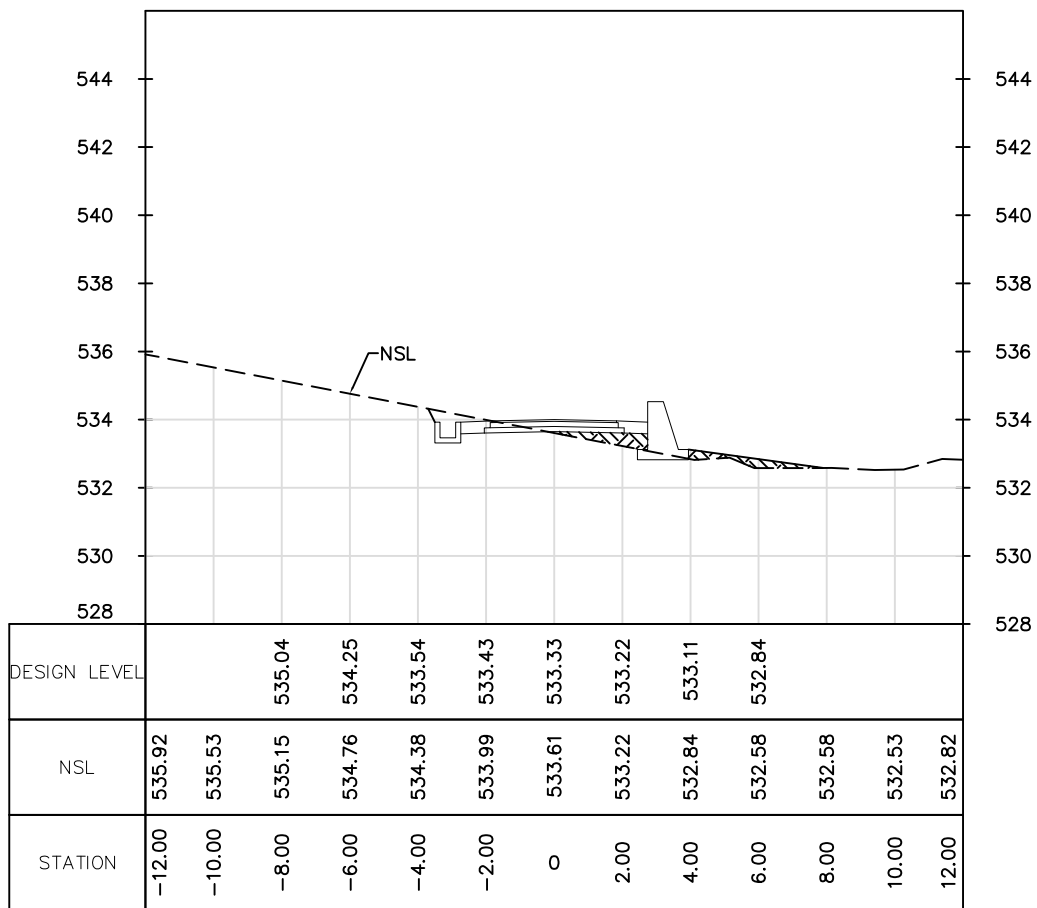
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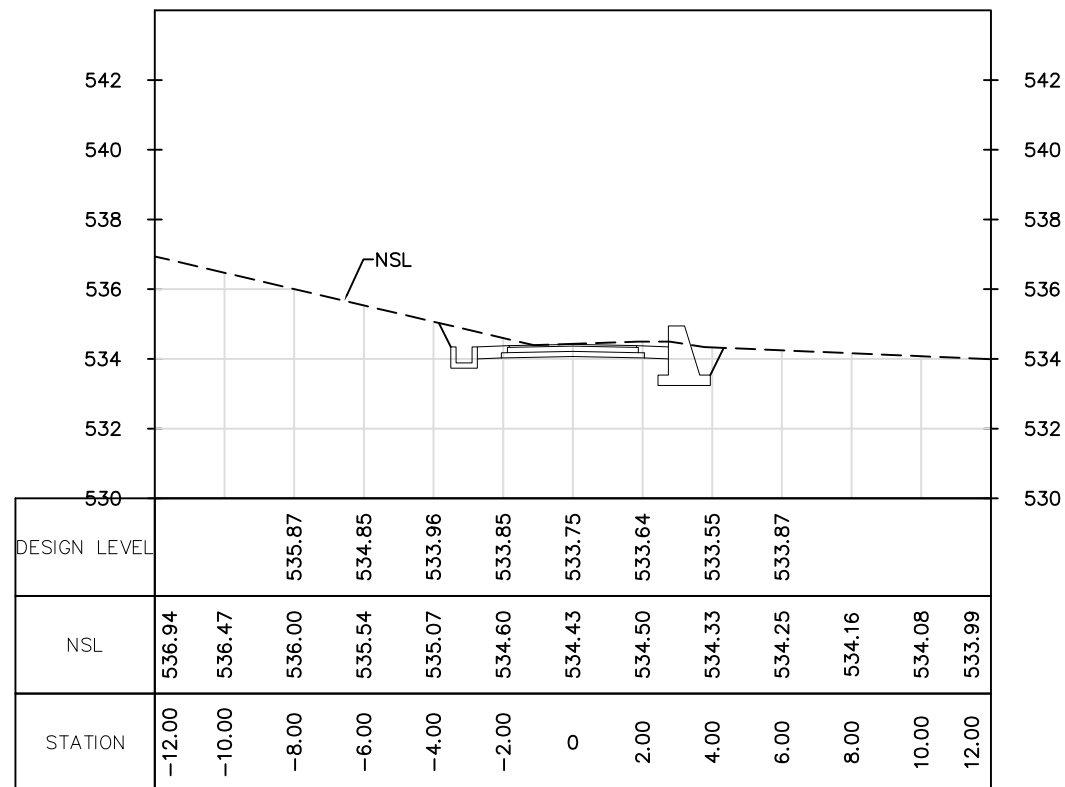
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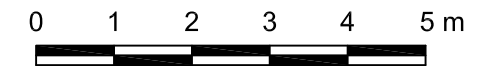
AT RD 4+200



AT RD 4+600



AT RD 4+800



SCALE

TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

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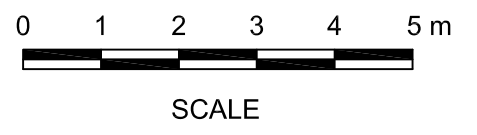
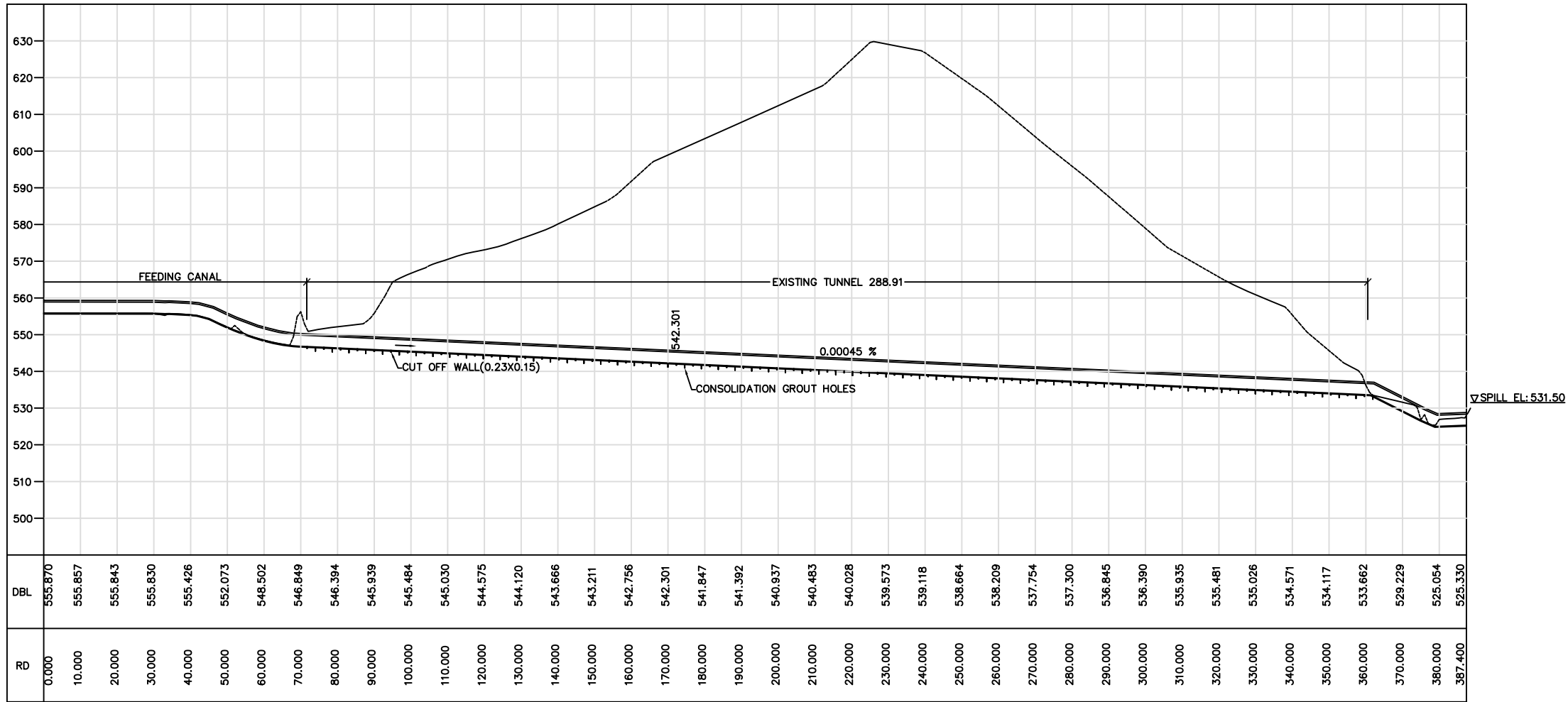
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**CROSS SECTIONS OF ROAD**

SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-512 SHEET:- 1 OF 01 SUB SH.-: -

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TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

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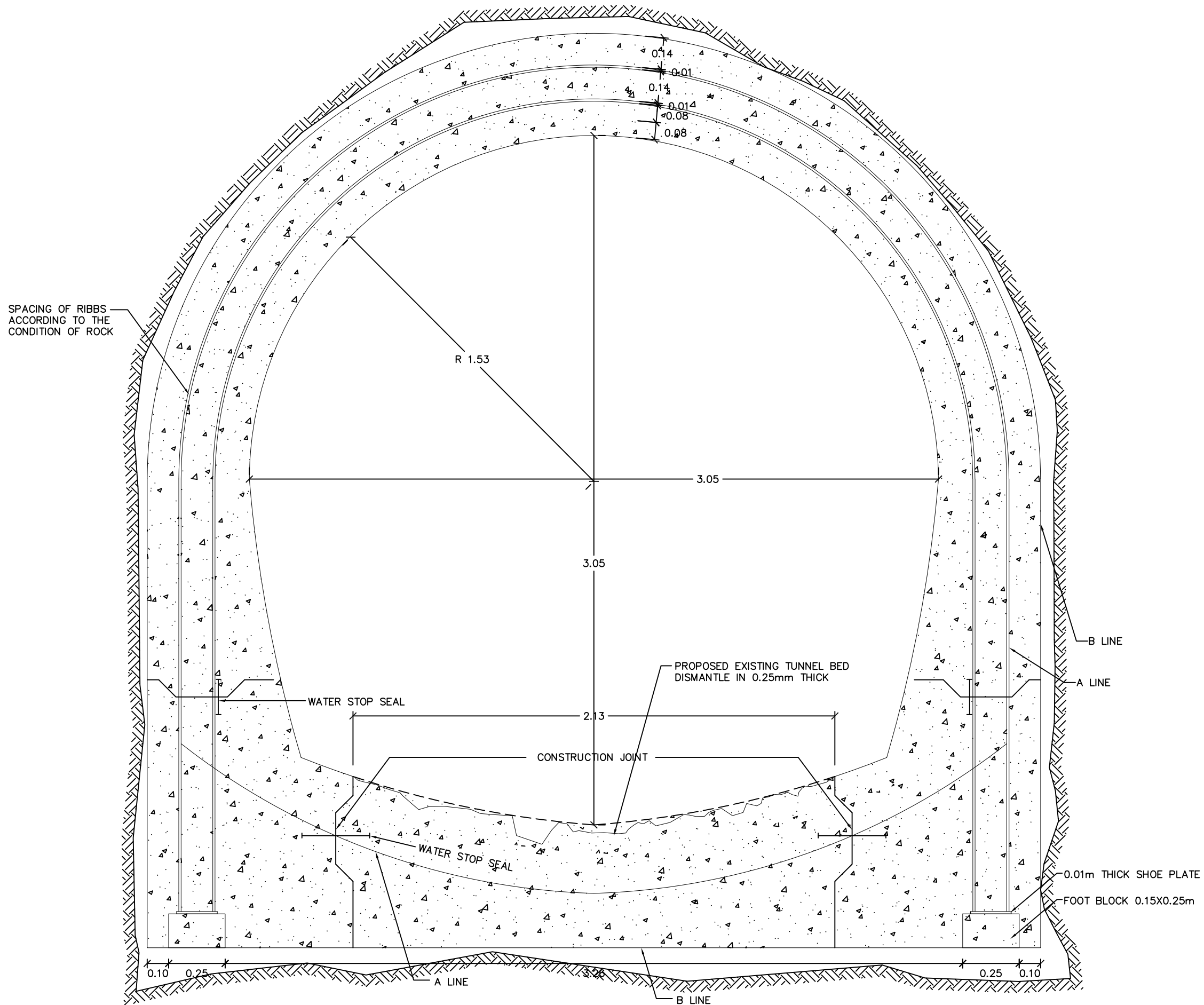
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PROFILE VIEW OF FEEDING  
CANAL AND TUNNEL**

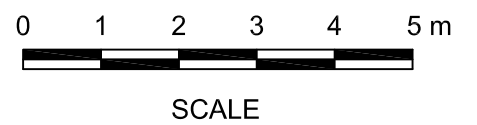
SCALE	DATE
Shown	JANUARY / 2021

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SPACING OF RIBBS  
ACCORDING TO THE  
CONDITION OF ROCK



TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF**  
**COMMAND AREA OF TANDA DAM, Dist. KOHAT**

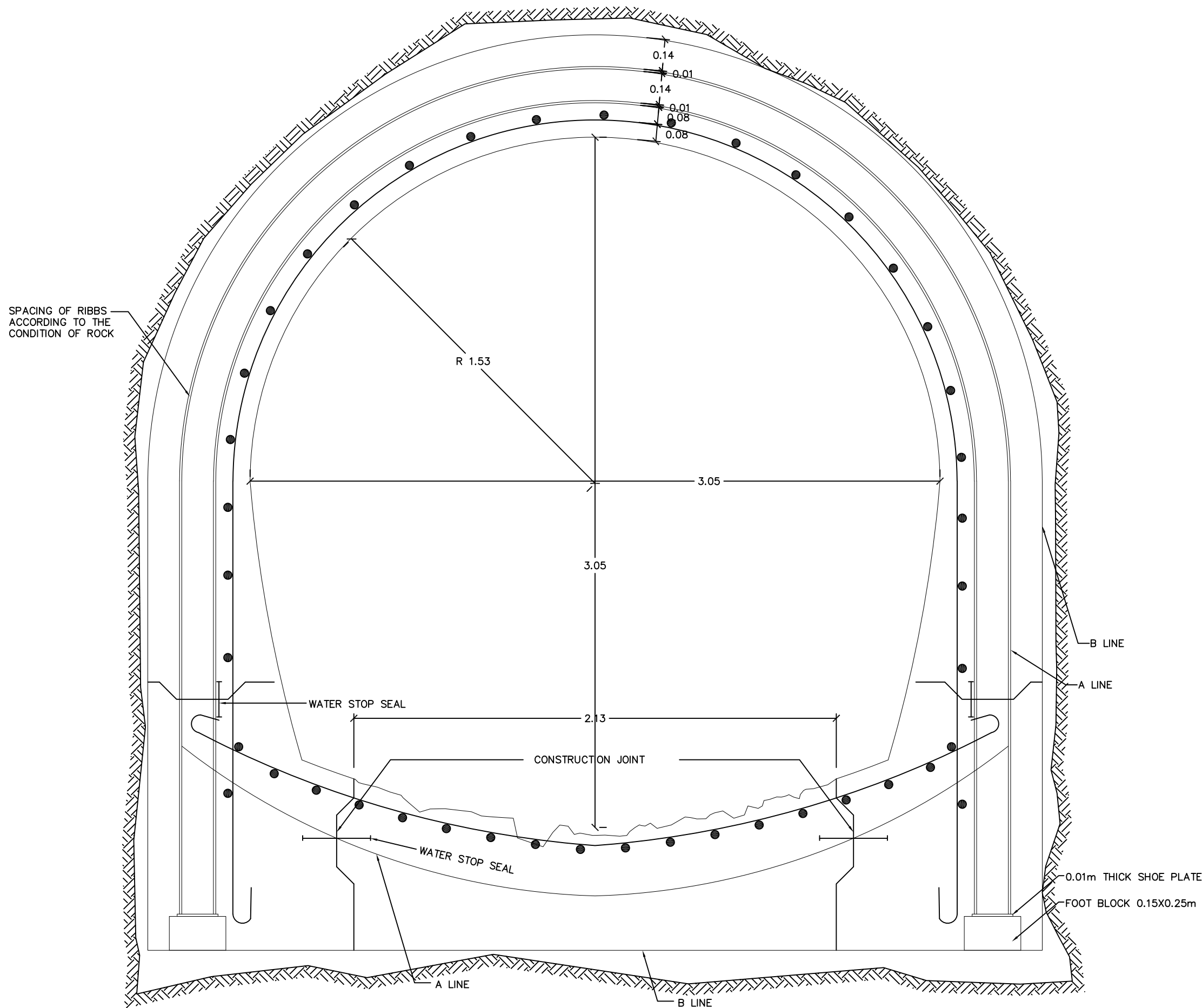
TITLE:  
**EXISTING TUNNEL SECTION**  
**DETAIL**

SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-602 SHEET:- 1 OF 01 SUB SH.-: -

EXISTING TUNNEL SECTION DETAIL

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SPACING OF RIBBS  
ACCORDING TO THE  
CONDITION OF ROCK

R 1.53

0.14  
0.01  
0.14  
0.01  
0.08  
0.08

3.05

3.05

WATER STOP SEAL

CONSTRUCTION JOINT

WATER STOP SEAL

A LINE

B LINE

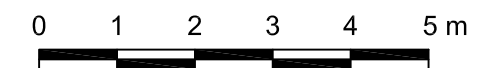
B LINE

A LINE

0.01m THICK SHOE PLATE

FOOT BLOCK 0.15X0.25m


EXISTING TUNNEL REINFORCEMENT SECTION






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

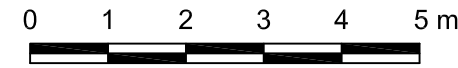
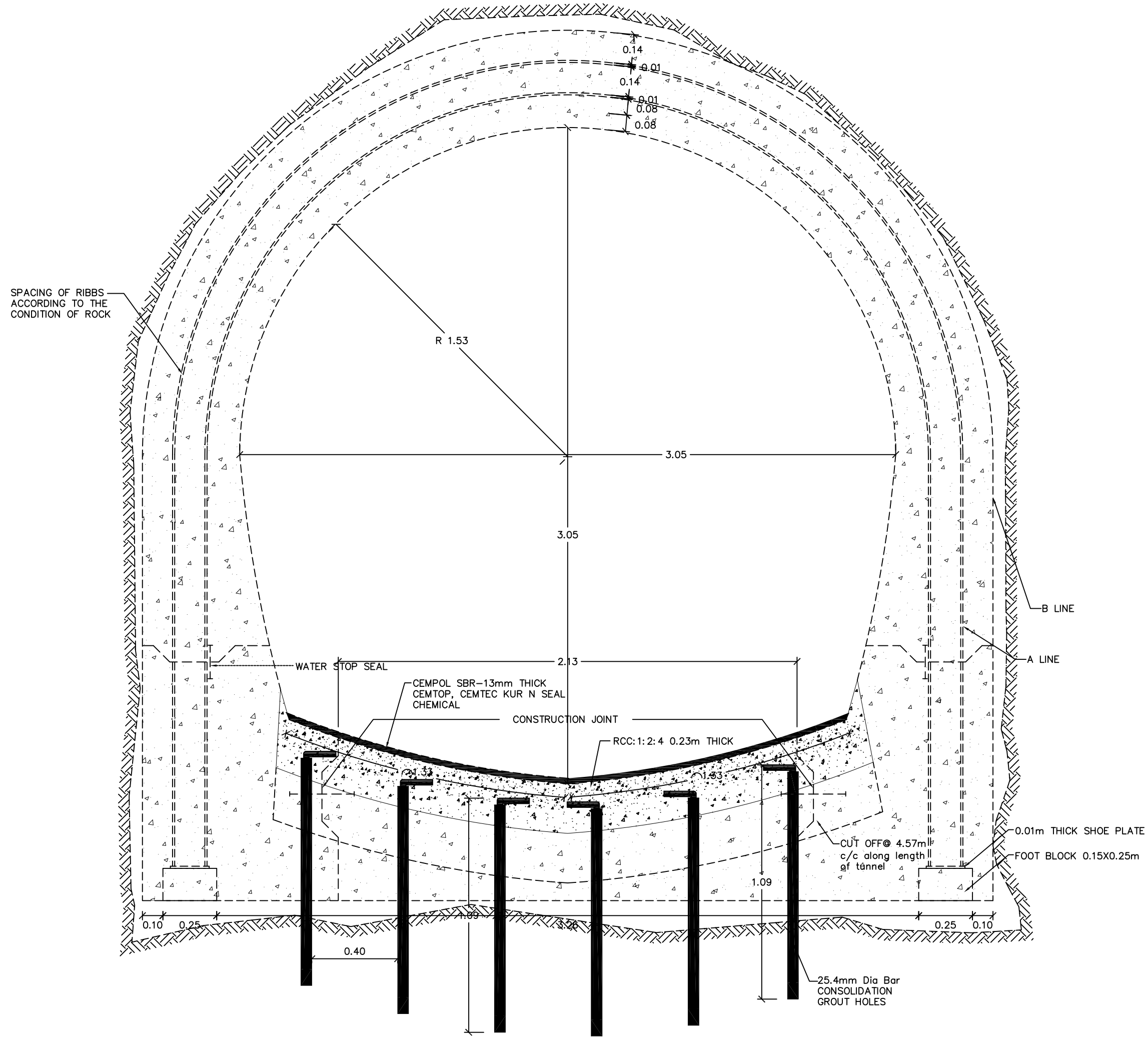
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 IN ASSOCIATION WITH:  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**EXISTING TUNNEL REINFORCEMENT DETAIL AND SECTION**


DRG.No:- TND-603	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.-	----


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SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

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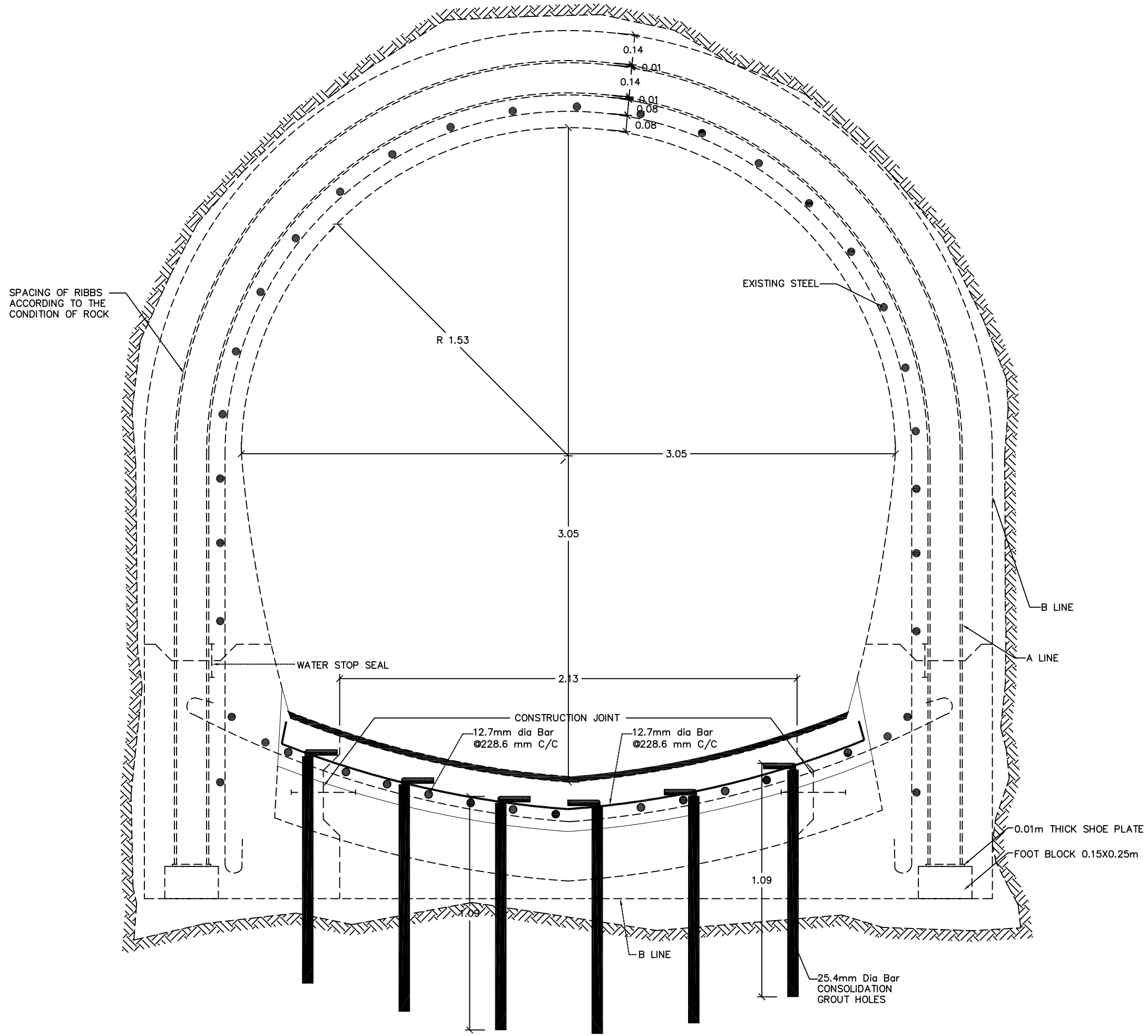
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PROPOSED TUNNEL SECTION DETAIL**

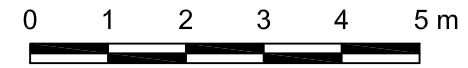
SCALE	DATE
Shown	JANUARY / 2021

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PROPOSED TUNNEL REINFORCEMENT SECTION






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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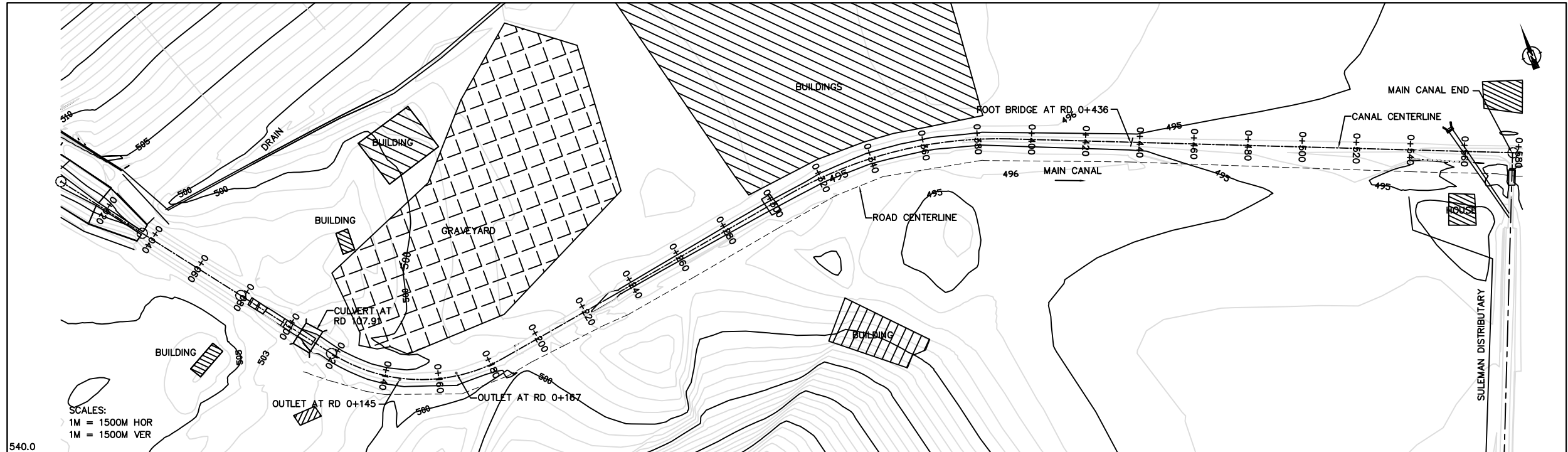
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PROPOSED TUNNEL REINFORCEMENT SECTION**

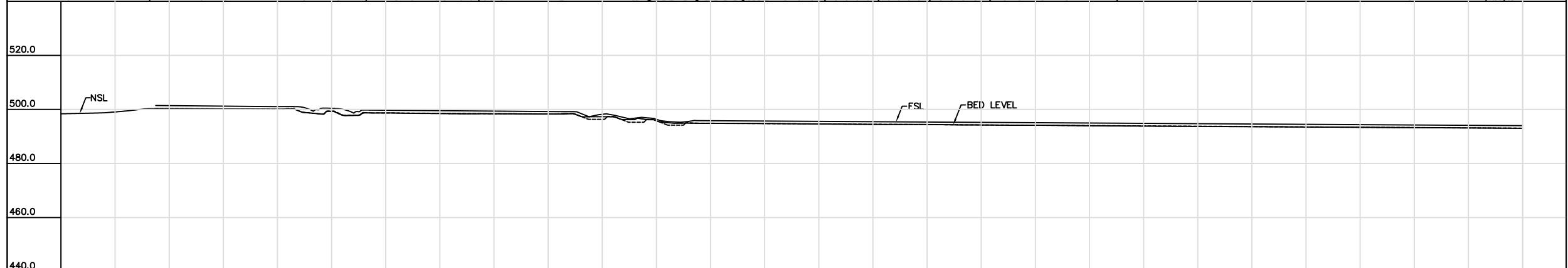
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-605 SHEET:- 1 OF 01 SUB SH.-: ----

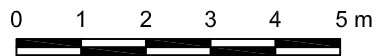
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %		0.47		0.47	0.58	0.58			0.61																																																				
VELOCITY (m/s)		1.923		1.923	2.02	2.02			2.167																																																				
BED WIDTH (m)		1.30		1.30	1.7	1.7			1.70																																																				
DISCHARGE CUMEC	FLIP BUCKET	6.667		6.577	6.559	6.559			6.559																																																				
REMARKS																																																													
F.S.L		500.26	501.40	500.07	501.04	499.38	500.40	498.66	499.68	498.54	498.42	499.36	498.31	499.20	496.31	498.17	495.83	496.34	494.87	494.87	495.82	494.74	495.70	494.62	495.58	494.50	495.46	494.41	494.38	495.33	494.25	495.21	494.13	495.09	493.02	494.01	494.97	493.88	493.88	494.85	493.76	494.72	493.65	493.64	494.60	493.53	493.52	494.48	493.39	493.39	494.36	493.27	494.23	493.15	494.11	493.03	493.99				
BED LEVEL		500.27	500.18	500.17	501.21	500.07	501.04	499.30	499.38	498.66	499.68	498.54	498.42	499.36	498.31	499.20	496.31	498.17	495.83	496.34	494.87	494.87	495.82	494.74	495.70	494.62	495.58	494.50	495.46	494.41	494.38	495.33	494.25	495.21	494.13	495.09	493.02	494.01	494.97	493.88	493.88	494.85	493.76	494.72	493.65	493.64	494.60	493.53	493.52	494.48	493.39	493.39	494.36	493.27	494.23	493.15	494.11	493.03	493.99		
SILTED BED		498.37	499.05	500.27	500.18	500.17	501.21	500.07	501.04	499.30	499.38	498.66	499.68	498.54	498.42	499.36	498.31	499.20	496.31	498.17	495.83	496.34	494.87	494.87	495.82	494.74	495.70	494.62	495.58	494.50	495.46	494.41	494.38	495.33	494.25	495.21	494.13	495.09	493.02	494.01	494.97	493.88	493.88	494.85	493.76	494.72	493.65	493.64	494.60	493.53	493.52	494.48	493.39	493.39	494.36	493.27	494.23	493.15	494.11	493.03	493.99
RD		0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540																																



SCALE

TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS**

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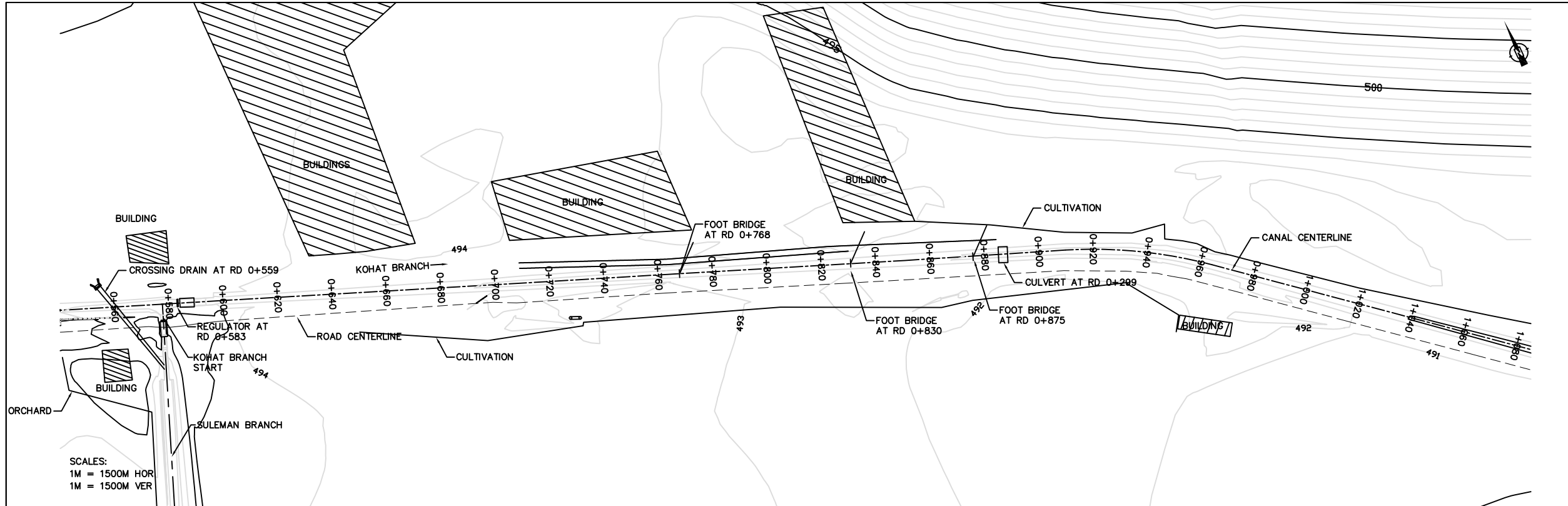
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & PROFILE OF TANDA DAM MAIN CANAL**

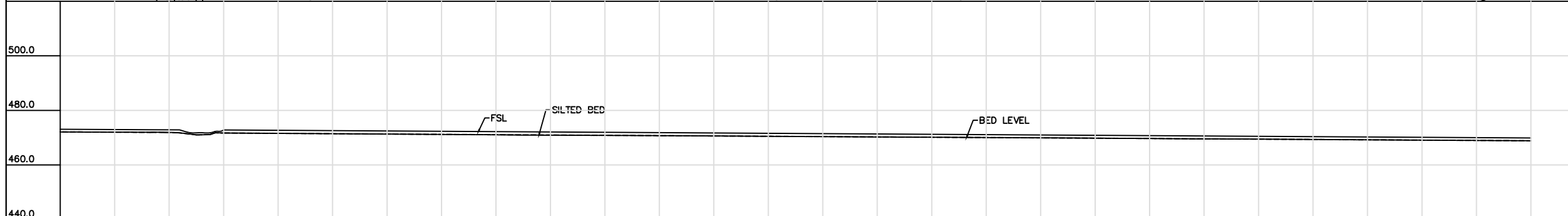
SCALE	DATE
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DRG.No:- TND-701 SHEET:- 01 OF 43 SUB SH.- ----

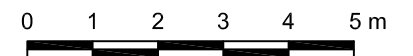
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.61	FALL STRUCTURE (RAISING OF WALL)		0.59																								
VELOCITY (m/s)	2.167			1.810																								
BED WIDTH (m)	1.7			1.55																								
DISCHARGE CUMEC	6.559			5.495																								
REMARKS																												
F.S.L	493.03	493.99	493.77	493.72	493.60	493.47	493.35	493.23	493.11	492.98	492.86	492.74	492.62	492.50	492.37	492.25	492.13	492.01	491.88	491.76	491.64	491.52	491.40	491.27	491.15	491.03	490.91	490.78
BED LEVEL	493.03	492.90	492.81	492.59	492.47	492.35	492.24	492.12	492.00	491.88	491.77	491.65	491.53	491.41	491.30	491.18	491.06	490.94	490.83	490.71	490.59	490.47	490.36	490.24	490.12	490.00	489.89	489.77
SILTED BED	493.03	492.92	492.81	492.62	492.49	492.35	492.24	492.12	492.01	491.88	491.77	491.65	491.53	491.41	491.30	491.19	491.06	490.96	490.84	490.73	490.60	490.47	490.38	490.25	490.11	490.01	489.89	489.77
RD	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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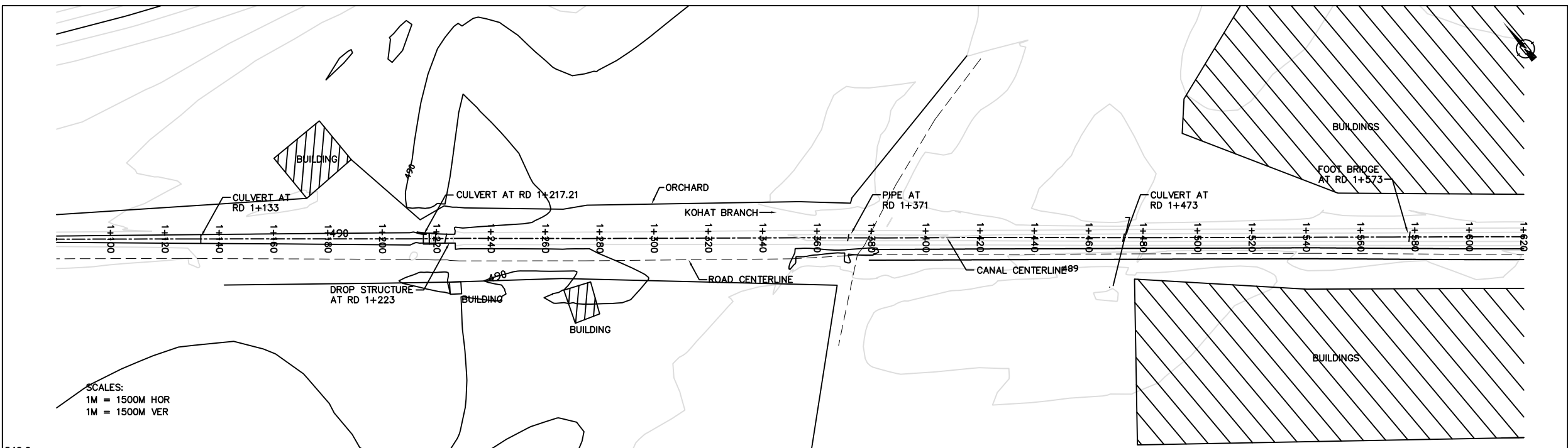
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & PROFILE OF TANDA DAM KOHAT BRANCH**

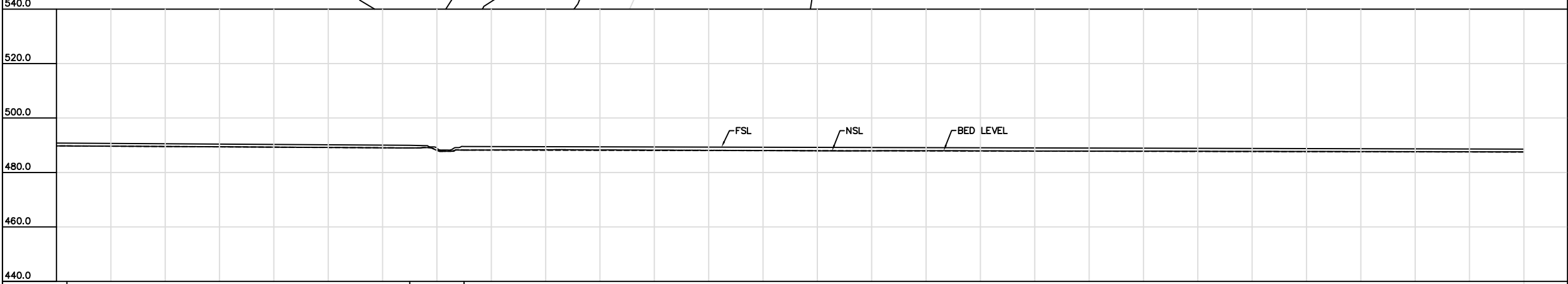
DRG.No:- TND-702	SHEET:- 2 OF 43	SCALE: Shown	DATE: JANUARY 2021
		SUB SH.-	----



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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.59										0.19																																														
VELOCITY (m/s)	1.81										1.05																																														
BED WIDTH (m)	1.55										2																																														
DISCHARGE CUMEC	5.495										5.495																																														
REMARKS	-----																																																								
F.S.L	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600	1+620																													
BED LEVEL	489.77	489.77	489.77	489.77	489.77	489.77	489.77	488.23	488.23	488.25	488.18	489.47	488.28	488.14	489.42	488.21	488.10	489.37	488.14	488.06	489.32	488.03	489.27	487.99	487.99	487.95	489.17	487.91	489.12	487.87	487.87	489.07	487.84	489.02	487.85	487.80	488.97	487.76	488.92	487.79	487.72	488.87	487.69	488.82	487.73	487.65	488.78	487.61	488.73	487.65	487.57	488.68	487.53	488.63	487.57	487.50	488.58
SILTED BED	489.77	489.66	489.55	489.41	489.30	489.17	489.05	488.23	488.23	488.25	488.18	489.47	488.28	488.14	489.42	488.21	488.10	489.37	488.14	488.06	489.32	488.03	489.27	487.99	487.99	487.95	489.17	487.91	489.12	487.87	487.87	489.07	487.84	489.02	487.85	487.80	488.97	487.76	488.92	487.79	487.72	488.87	487.69	488.82	487.73	487.65	488.78	487.61	488.73	487.65	487.57	488.68	487.53	488.63	487.57	487.50	488.58
RD	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600	1+620																													



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

REVISED & UPDATED FOR TENDER BY: A Joint Venture of: REHMAN HABIB CONSULTANTS (PVT) LTD., CASCADE GROUP OF ENGINEERING & CONSULTANTS

IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

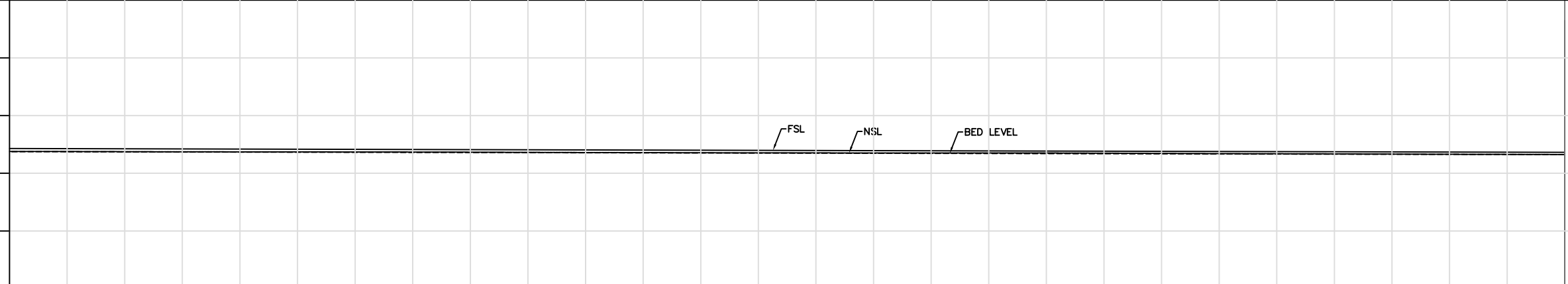
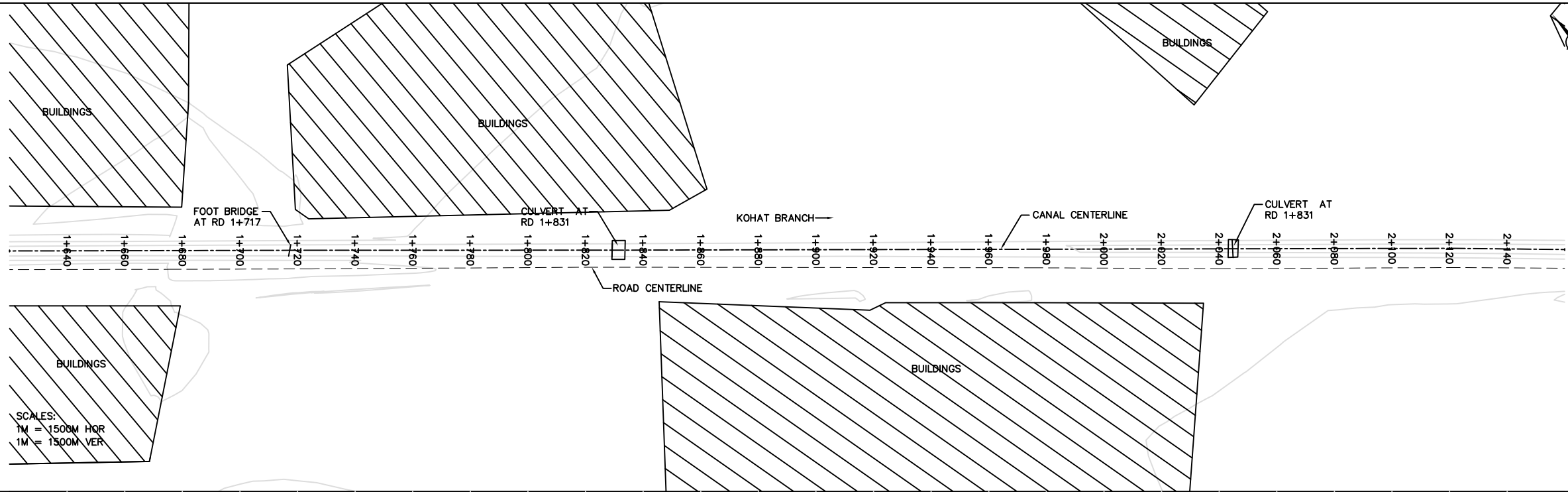
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF TANDA DAM KOHAT BRANCH

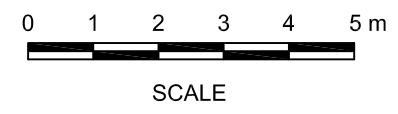
SCALE	DATE
Shown	JANUARY/2021

DRG.No:- TND-703 SHEET:- 3 OF 43 SUB SH.- ----

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SLOPE %	0.19																																																										
VELOCITY (m/s)	1.05																																																										
BED WIDTH (m)	2																																																										
DISCHARGE CUMEC	5.495																																																										
REMARKS	---																																																										
F.S.L	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	488.58	488.53	488.48	488.43	488.38	488.33	488.28	488.23	488.18	488.13	488.08	488.03	487.98	487.94	487.89	487.84	487.79	487.74	487.69	487.64	487.59	487.54	487.49	487.44	487.39	487.34	487.29	487.24			
BED LEVEL	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	487.50	487.46	487.42	487.38	487.35	487.31	487.27	487.23	487.19	487.16	487.12	487.08	487.04	487.01	486.97	486.93	486.89	486.85	486.82	486.78	486.74	486.70	486.67	486.63	486.59	486.55	486.51	486.48			
SILTED BED	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	487.57	487.55	487.49	487.44	487.42	487.40	487.38	487.35	487.31	487.27	487.23	487.19	487.15	487.11	487.08	487.05	487.01	486.97	486.93	486.89	486.85	486.82	486.78	486.74	486.70	486.67	486.63	486.59	486.55	486.51	486.48
RD	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160																															



TENDER DRAWING

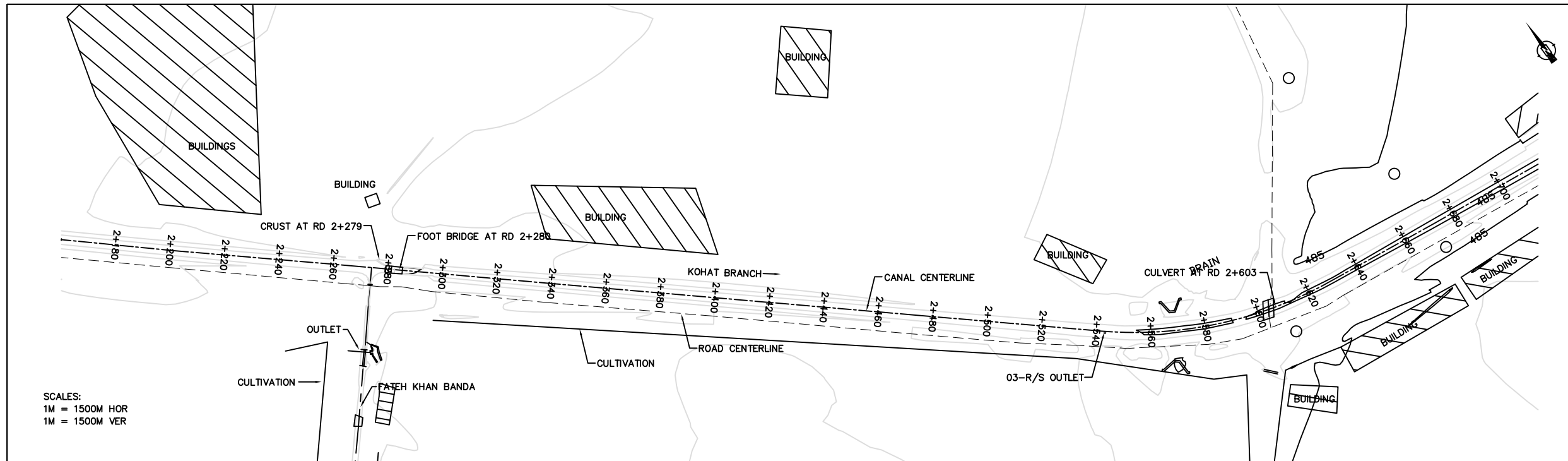
CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS IN ASSOCIATION WITH: ETA ENGINEERING & TECHNICAL ASSOCIATES

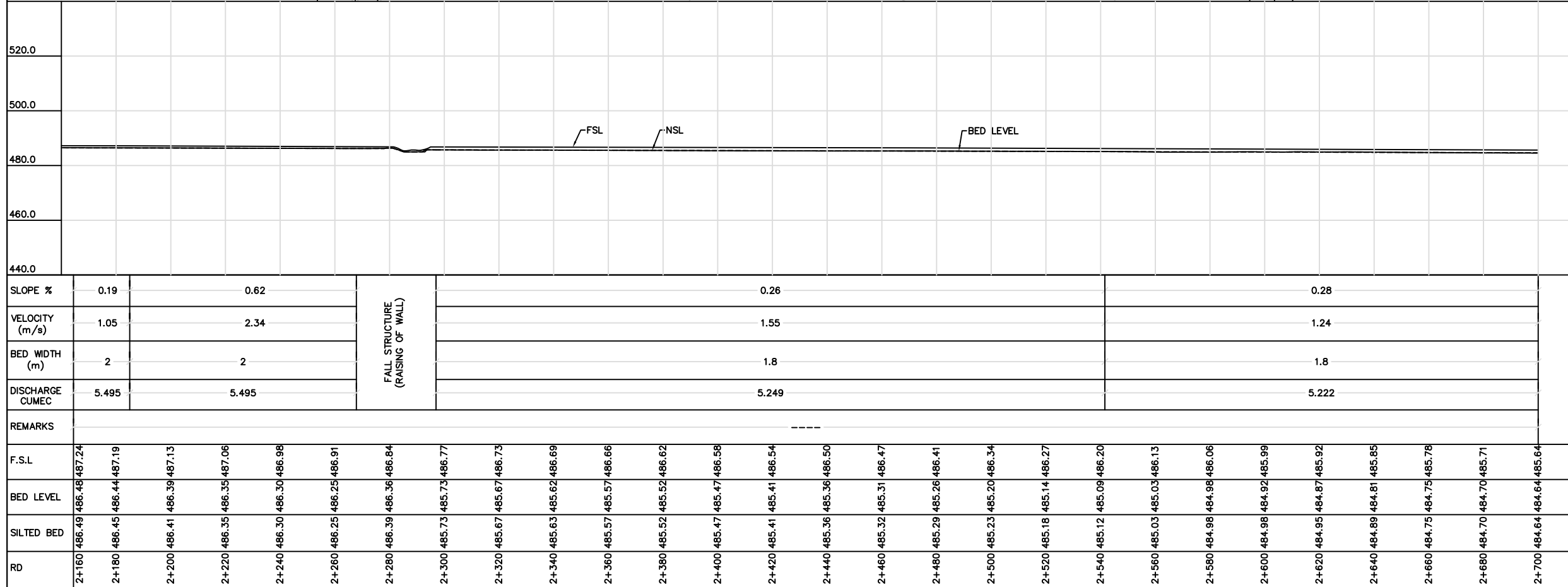
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF TANDA DAM KOHAT BRANCH

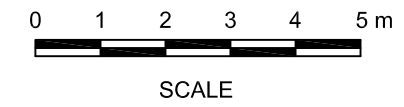
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.19		0.62		FALL STRUCTURE (RAISING OF WALL)	0.26		0.28																				
	1.05		2.34			1.55		1.24																				
VELOCITY (m/s)	1.05		2.34			1.55		1.24																				
BED WIDTH (m)	2		2			1.8		1.8																				
DISCHARGE CUMEC	5.495		5.495			5.249		5.222																				
REMARKS	-----																											
F.S.L	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700
BED LEVEL	486.49	486.45	486.41	486.35	486.30	486.25	486.36	485.73	485.67	485.63	485.57	485.52	485.47	485.41	485.36	485.31	485.26	485.23	485.18	485.12	485.03	484.98	484.92	484.87	484.81	484.75	484.70	484.64
SILTED BED	486.49	486.45	486.41	486.35	486.30	486.25	486.36	485.73	485.67	485.63	485.57	485.52	485.47	485.41	485.36	485.31	485.26	485.23	485.18	485.12	485.03	484.98	484.92	484.87	484.81	484.75	484.70	484.64
RD	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700



TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  

**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  

**CASCADE GROUP OF ENGINEERING & CONSULTANTS**  

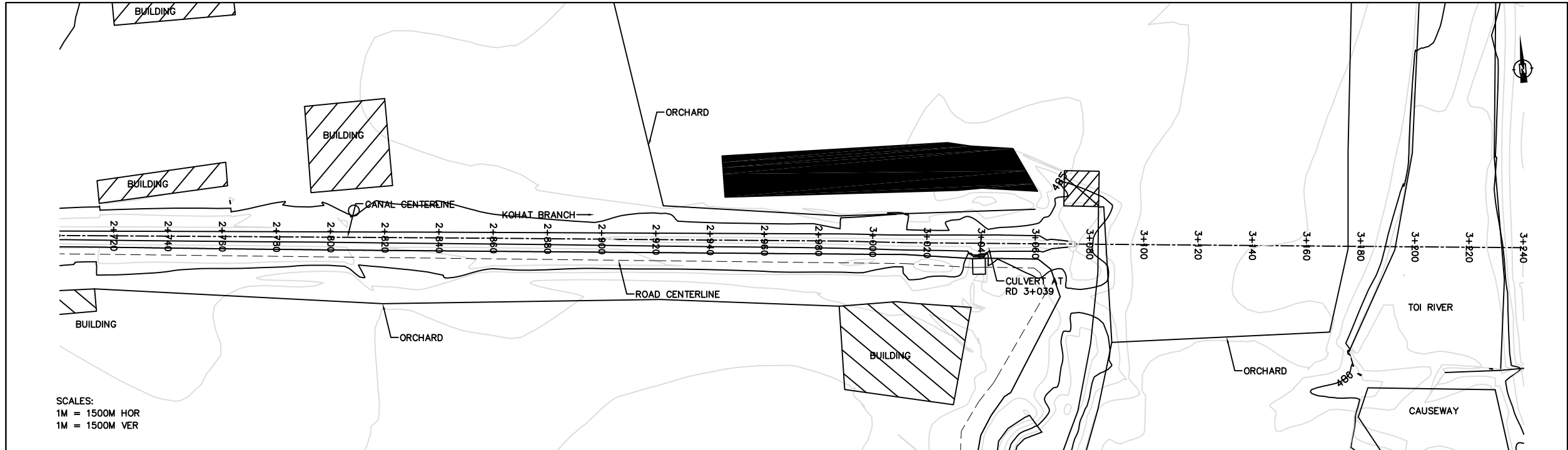
 IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

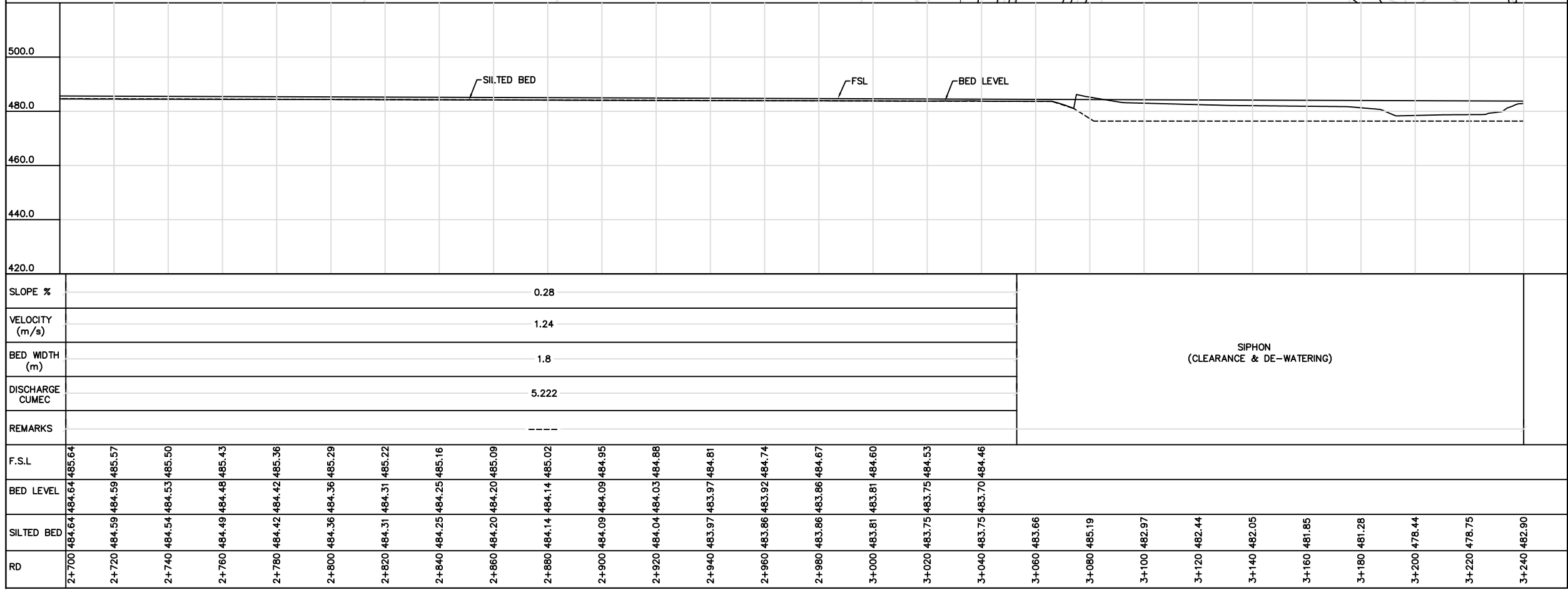
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**KOHAT BRANCH**

DRG.No:- TND-705	SHEET:- 5 OF 43	SUB SH.-	SCALE	DATE
			Shown	JANUARY / 2021

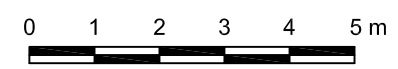
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.28																											
VELOCITY (m/s)	1.24																											
BED WIDTH (m)	1.8																											
DISCHARGE CUMEC	5.222																											
REMARKS	-----																											
F.S.L	484.64	484.57	484.50	484.43	484.36	484.29	484.22	484.16	484.09	484.02	483.95	483.88	483.81	483.74	483.67	483.60	483.53	483.46	483.39	483.32								
BED LEVEL	484.64	484.59	484.53	484.48	484.42	484.36	484.31	484.25	484.20	484.14	484.09	484.03	483.97	483.92	483.86	483.81	483.75	483.70	483.66	483.61								
SILTED BED	484.64	484.59	484.53	484.48	484.42	484.36	484.31	484.25	484.20	484.14	484.09	484.03	483.97	483.92	483.86	483.81	483.75	483.70	483.66	483.61								
RD	2+700	2+720	2+740	2+760	2+780	2+800	2+820	2+840	2+860	2+880	2+900	2+920	2+940	2+960	2+980	3+000	3+020	3+040	3+060	3+080	3+100	3+120	3+140	3+160	3+180	3+200	3+220	3+240







SCALE

TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  

**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  

**CASCADE GROUP OF ENGINEERING & CONSULTANTS**  

 IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

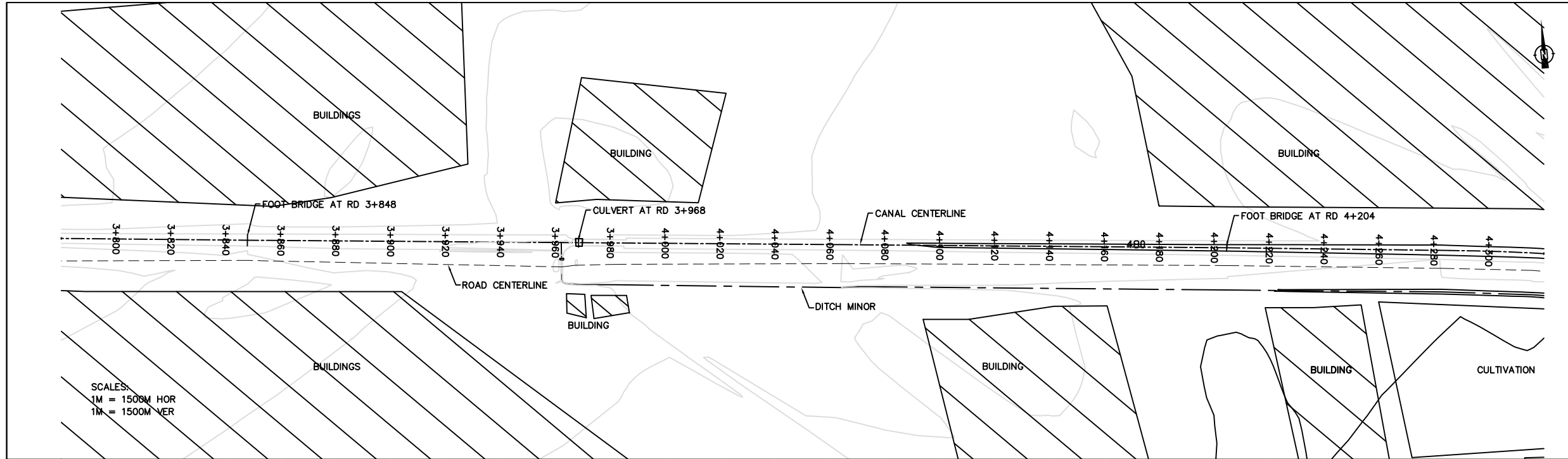
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**KOHAT BRANCH**

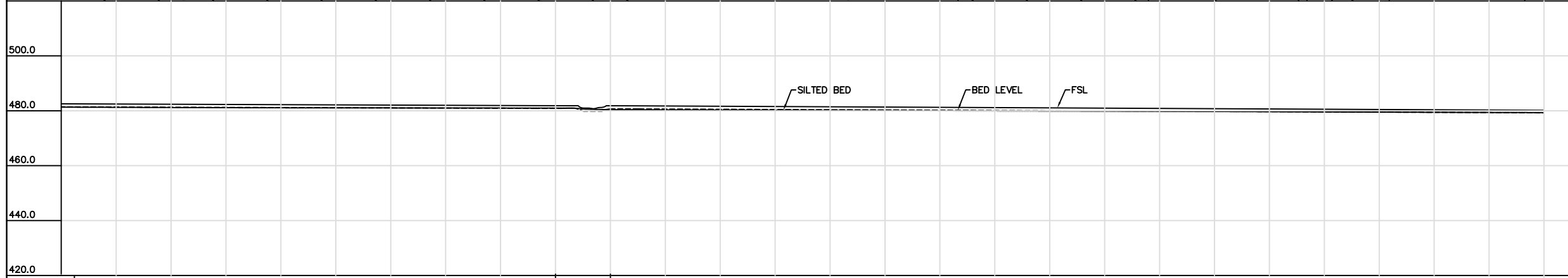
DRG.No:- TND-706	SHEET:- 6 OF 43	SUB SH.-	SCALE Shown	DATE JANUARY / 2021
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SCALE:  
 1M = 1500M HOR  
 1M = 1500M VER



SLOPE %	0.22															0.41																																																																				
VELOCITY (m/s)	1.29															1.49																																																																				
BED WIDTH (m)	1.75															1.5																																																																				
DISCHARGE CUMEC	5.150															5.039																																																																				
REMARKS	FALL STRUCTURE (RAISING OF WALL)																																																																																			
F.S.L	481.41	481.41	482.53	481.35	481.35	482.45	481.28	481.28	482.38	481.22	481.22	482.30	481.16	481.16	482.23	481.10	481.10	482.15	481.04	481.04	482.07	480.97	480.97	482.00	480.91	480.91	481.92	480.87	480.87	481.86	480.68	480.68	481.81	480.63	480.63	481.74	480.54	480.54	481.64	480.45	480.45	481.54	480.37	480.37	481.45	480.28	480.28	481.35	480.20	480.20	481.25	480.11	480.11	481.15	480.03	480.03	481.05	479.95	479.95	480.95	479.85	479.85	480.85	479.77	479.77	480.75	479.68	479.68	480.66	479.61	479.61	480.56	479.52	479.52	480.46	479.43	479.43	480.36	479.38	479.38	480.26	479.31	479.31	480.16
BED LEVEL	481.41	481.41	482.53	481.35	481.35	482.45	481.28	481.28	482.38	481.22	481.22	482.30	481.16	481.16	482.23	481.10	481.10	482.15	481.04	481.04	482.07	480.97	480.97	482.00	480.91	480.91	481.92	480.87	480.87	481.86	480.68	480.68	481.81	480.63	480.63	481.74	480.54	480.54	481.64	480.45	480.45	481.54	480.37	480.37	481.45	480.28	480.28	481.35	480.20	480.20	481.25	480.11	480.11	481.15	480.03	480.03	481.05	479.95	479.95	480.95	479.85	479.85	480.85	479.77	479.77	480.75	479.68	479.68	480.66	479.61	479.61	480.56	479.52	479.52	480.46	479.43	479.43	480.36	479.38	479.38	480.26	479.31	479.31	480.16
SILTED BED	481.41	481.35	481.35	481.28	481.28	482.38	481.22	481.22	482.30	481.16	481.16	482.23	481.10	481.10	482.15	481.04	481.04	482.07	480.97	480.97	482.00	480.91	480.91	481.92	480.87	480.87	481.86	480.68	480.68	481.81	480.63	480.63	481.74	480.54	480.54	481.64	480.45	480.45	481.54	480.37	480.37	481.45	480.28	480.28	481.35	480.20	480.20	481.25	480.11	480.11	481.15	480.03	480.03	481.05	479.95	479.95	480.95	479.85	479.85	480.85	479.77	479.77	480.75	479.68	479.68	480.66	479.61	479.61	480.56	479.52	479.52	480.46	479.43	479.43	480.36	479.38	479.38	480.26	479.31	479.31	480.16			
RD	3+780	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080	4+100	4+120	4+140	4+160	4+180	4+200	4+220	4+240	4+260	4+280	4+300	4+320																																																								



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 KOHAT BRANCH**

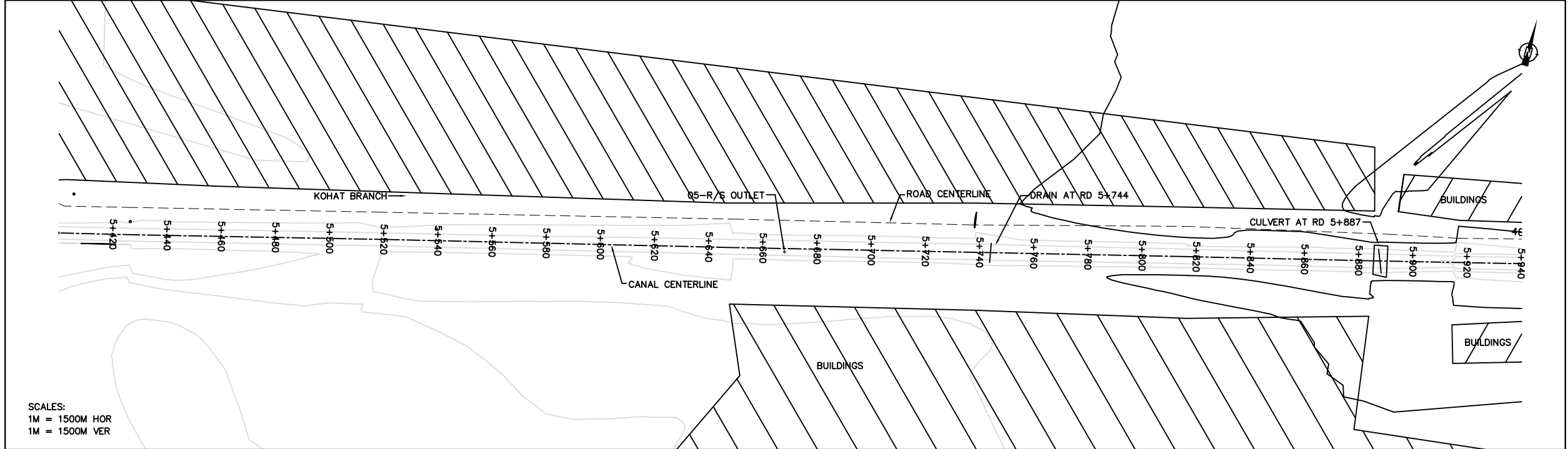
DRG.No:- TND-708	SHEET:- 8 OF 43	SUB SH.-	SCALE Shown	DATE JANUARY / 2021
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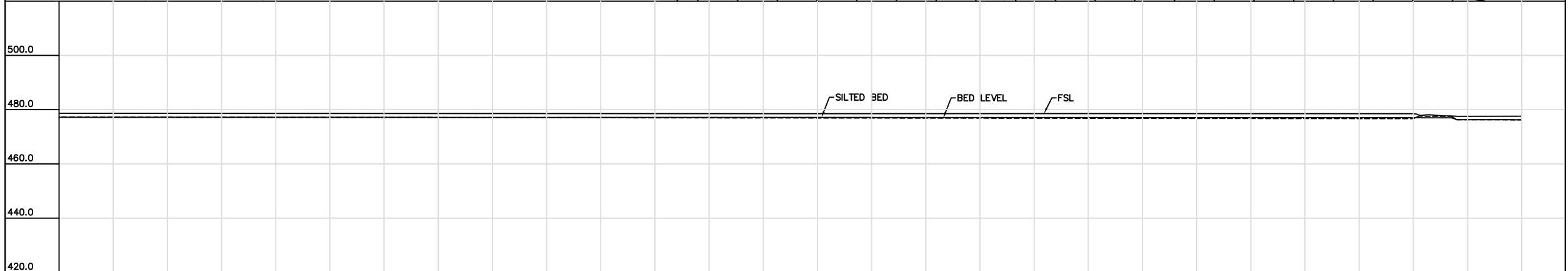




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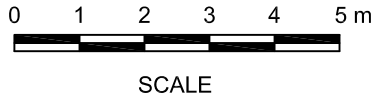
SCALES:  
1M = 1500M HOR  
1M = 1500M VER



Station	F.S.L.	Bed Level	Silted Bed	RD
5+400	477.39	477.24	477.24	478.66
5+420	477.38	477.22	477.22	478.65
5+440	477.37	477.20	477.20	478.64
5+460	477.37	477.18	477.18	478.62
5+480	477.47	477.15	477.15	478.61
5+500	477.36	477.13	477.13	478.60
5+520	477.36	477.11	477.11	478.59
5+540	477.26	477.09	477.09	478.58
5+560	477.26	477.07	477.07	478.57
5+580	477.25	477.04	477.04	478.56
5+600	477.35	477.02	477.02	478.55
5+620	477.35	477.00	477.00	478.54
5+640	477.34	476.98	476.98	478.53
5+660	477.24	476.96	476.96	478.52
5+680	477.23	476.93	476.93	478.52
5+700	477.22	476.91	476.91	478.52
5+720	477.21	476.89	476.89	478.53
5+740	477.22	476.87	476.87	478.53
5+760	477.12	476.85	476.85	478.53
5+780	477.19	476.82	476.82	478.54
5+800	477.18	476.80	476.80	478.53
5+820	477.17	476.78	476.78	478.52
5+840	477.16	476.76	476.76	478.52
5+860	477.15	476.74	476.74	478.51
5+880	477.14	476.71	476.71	478.51
5+900	477.12	476.69	476.69	478.47
5+920	476.28	476.28	477.54	477.94
5+940	476.27	476.27	477.59	477.99

SLOPE %	0.11	0.11	TRANSITION STRUCTURE
VELOCITY (m/s)	0.52	0.52	
BED WIDTH (m)	2.15	2.15	
DISCHARGE CUMEC	4.073	4.008	
		0.09	

REMARKS: EXI.DAMAGED SEC REPLACED WITH CONC. SEC & PROPOSED PROTECTION WALLS ON BOTH SIDES



TENDER DRAWING

CLIENT:  
KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
CAMEOS  
REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

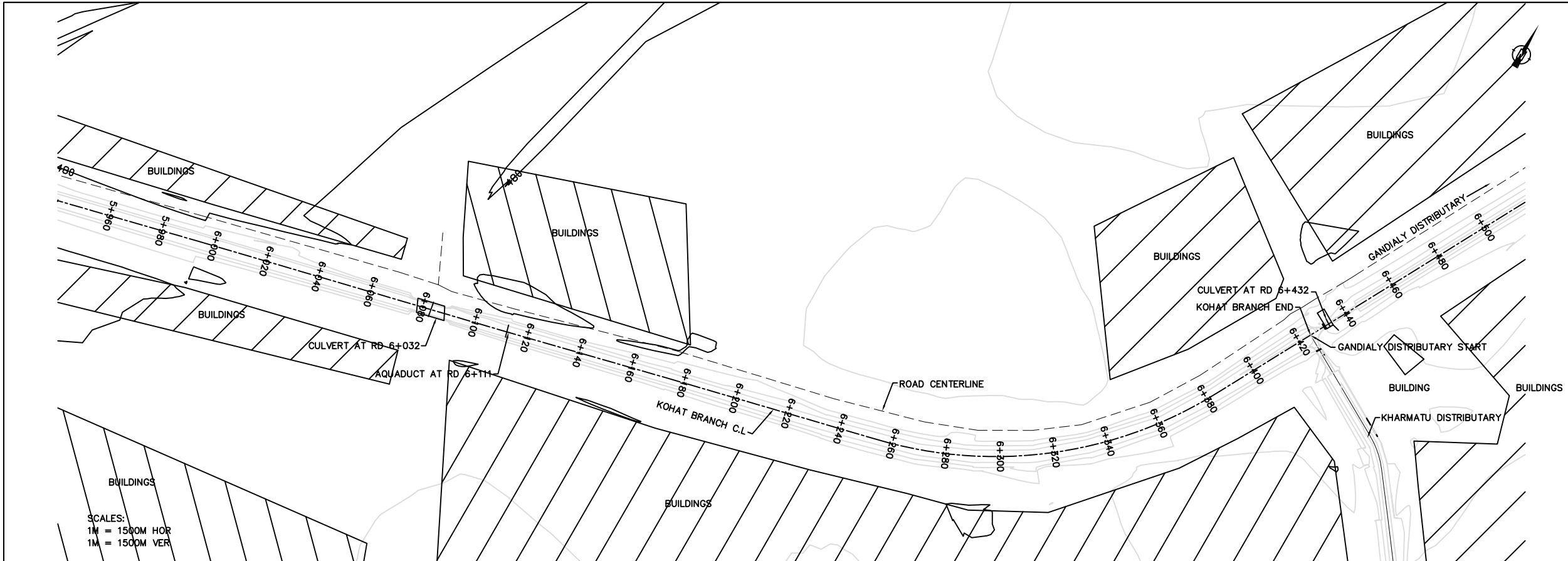
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
PLAN & PROFILE OF TANDA DAM  
KOHAT BRANCH

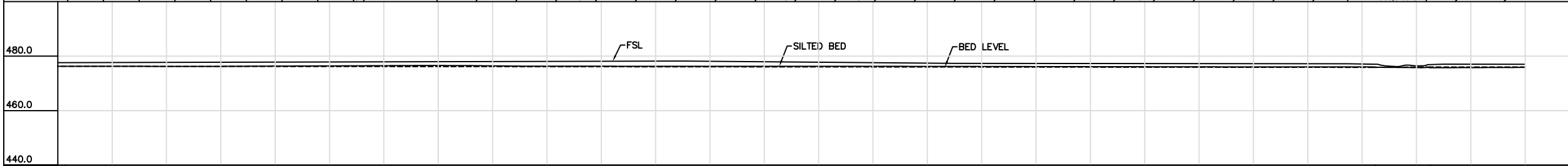
DRG.No:- TND-711	SHEET:- 11 OF 43	SUB SH.-
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SCALE	DATE
Shown	JANUARY / 2021

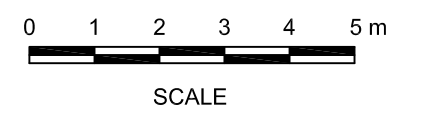
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.09																				FALL STRUCTURE (RAISING OF WALL)	0.04																																				
VELOCITY (m/s)	1.18																					1.48																																				
BED WIDTH (m)	2.1																					1.80																																				
DISCHARGE CUMEC	4.008																					2.267																																				
REMARKS	EXI.DAMAGED SEC REPLACED WITH CONC. SEC & PROPOSED PROTECTION WALLS ON BOTH SIDES																																																									
F.S.L	5+940	5+960	5+980	6+000	6+020	6+040	6+060	6+080	6+100	6+120	6+140	6+160	6+180	6+200	6+220	6+240	6+260	6+280	6+300	6+320	6+340	6+360	6+380	6+400	6+420	6+440	6+460	6+480	477.59	477.64	477.69	477.74	477.79	477.85	477.90	477.95	478.00	478.05	478.10	478.15	478.09	477.92	477.75	477.58	477.41	477.31	477.29	477.27	477.25	477.22	477.20	477.18	477.08	476.41	477.02	477.00		
BED LEVEL	5+940	5+960	5+980	6+000	6+020	6+040	6+060	6+080	6+100	6+120	6+140	6+160	6+180	6+200	6+220	6+240	6+260	6+280	6+300	6+320	6+340	6+360	6+380	6+400	6+420	6+440	6+460	6+480	476.27	476.25	476.23	476.22	476.20	476.18	476.17	476.15	476.13	476.11	476.10	476.08	476.06	476.05	476.03	476.01	475.99	475.98	475.96	475.94	475.93	475.91	475.89	475.88	475.86	475.77	475.97	476.00	475.99	
SILTED BED	5+940	5+960	5+980	6+000	6+020	6+040	6+060	6+080	6+100	6+120	6+140	6+160	6+180	6+200	6+220	6+240	6+260	6+280	6+300	6+320	6+340	6+360	6+380	6+400	6+420	6+440	6+460	6+480	476.27	476.25	476.23	476.22	476.20	476.18	476.17	476.15	476.13	476.11	476.10	476.08	476.06	476.05	476.03	476.01	475.99	475.98	475.96	475.94	475.93	475.91	475.89	475.88	475.86	475.77	475.97	476.00	475.99	
RD	5+940	5+960	5+980	6+000	6+020	6+040	6+060	6+080	6+100	6+120	6+140	6+160	6+180	6+200	6+220	6+240	6+260	6+280	6+300	6+320	6+340	6+360	6+380	6+400	6+420	6+440	6+460	6+480																														



**TENDER DRAWING**

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

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**ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

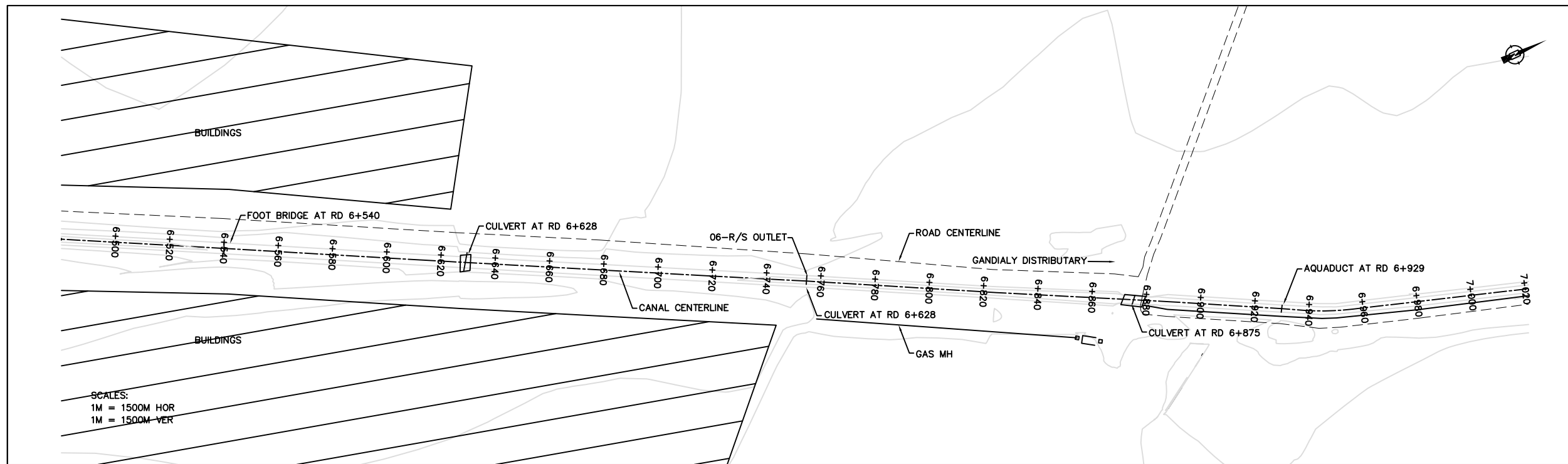
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM KOHAT BRANCH**

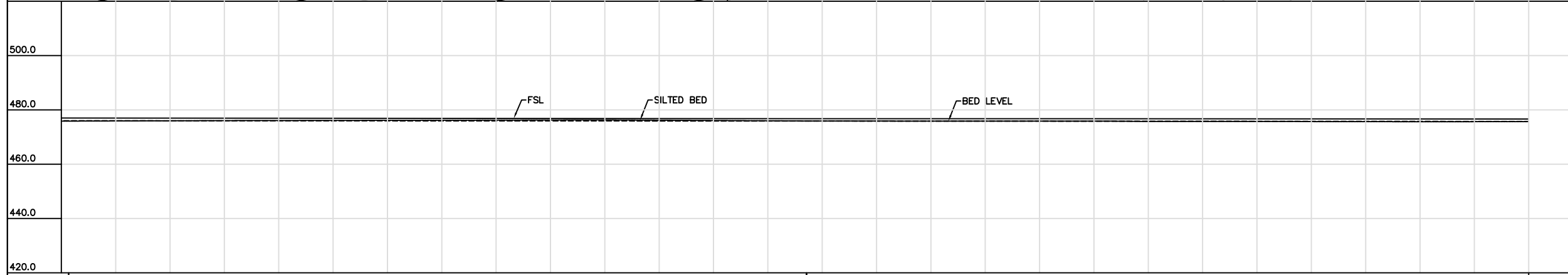
DRG.No:-	TND-712	SHEET:-	12 OF 43	SUB SH.-	----
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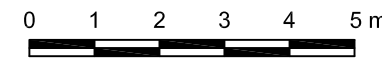
SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.04	0.04
VELOCITY (m/s)	1.48	1.48
BED WIDTH (m)	1.80	1.80
DISCHARGE CUMEC	2.268	2.147

REMARKS: EXI.DAMAGED SEC REPLACED WITH CONC.SEC & PROTECTION WALLS ON BOTH SIDES

F.S.L	6+480	6+500	6+520	6+540	6+560	6+580	6+600	6+620	6+640	6+660	6+680	6+700	6+720	6+740	6+760	6+780	6+800	6+820	6+840	6+860	6+880	6+900	6+920	6+940	6+960	6+980	7+000	7+020	
BED LEVEL	475.84	475.99	475.98	475.98	475.96	475.96	476.01	476.11	476.14	476.17	476.22	476.30	476.39	476.47	476.55	476.64	476.73	476.82	476.91	477.00	477.09	477.18	477.27	477.36	477.45	477.54	477.63	477.72	477.81
SILTED BED	475.84	475.91	475.98	476.05	476.08	476.11	476.14	476.17	476.22	476.26	476.30	476.30	476.39	476.47	476.55	476.64	476.73	476.82	476.91	477.00	477.09	477.18	477.27	477.36	477.45	477.54	477.63	477.72	477.81
RD	6+480	6+500	6+520	6+540	6+560	6+580	6+600	6+620	6+640	6+660	6+680	6+700	6+720	6+740	6+760	6+780	6+800	6+820	6+840	6+860	6+880	6+900	6+920	6+940	6+960	6+980	7+000	7+020	



SCALE

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CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS  
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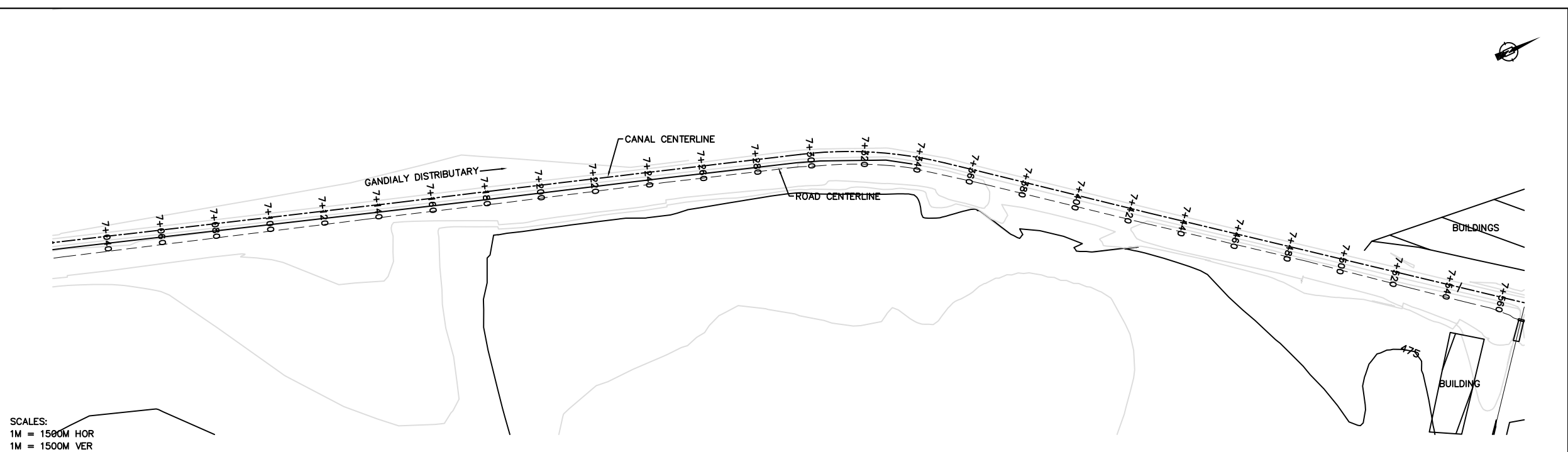
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF TANDA DAM GANDIALY DISTRIBUTARY

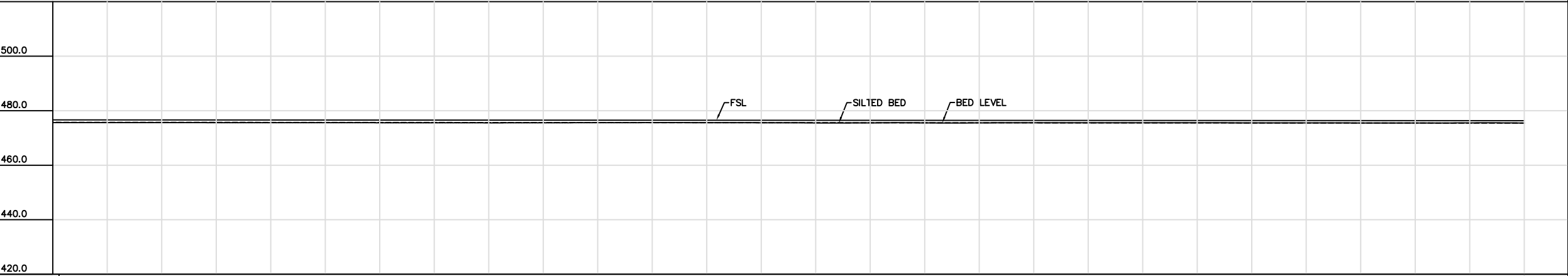
DRG.No:- TND-713	SHEET:- 13 OF 43	SUB SH:- ----
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.04																											
VELOCITY (m/s)	1.48																											
BED WIDTH (m)	1.80																											
DISCHARGE CUMEC	2.147																											
REMARKS	EXI.DAMAGED SEC REPLACED WITH CONC. SEC & PROPOSED PROTECTION WALLS ON BOTH SIDES																											
F.S.L	7+020	7+040	7+060	7+080	7+100	7+120	7+140	7+160	7+180	7+200	7+220	7+240	7+260	7+280	7+300	7+320	7+340	7+360	7+380	7+400	7+420	7+440	7+460	7+480	7+500	7+520	7+540	7+560
BED LEVEL	475.66	475.65	475.64	475.63	475.61	475.60	475.59	475.58	475.56	475.55	475.53	475.52	475.51	475.50	475.49	475.48	475.47	475.46	475.45	475.44	475.43	475.42	475.41	475.40	475.39	475.38	475.37	475.35
SILTED BED	475.66	475.65	475.64	475.63	475.61	475.60	475.59	475.58	475.56	475.55	475.53	475.52	475.51	475.50	475.49	475.48	475.47	475.46	475.45	475.44	475.43	475.42	475.41	475.40	475.39	475.38	475.37	475.35
RD	7+020	7+040	7+060	7+080	7+100	7+120	7+140	7+160	7+180	7+200	7+220	7+240	7+260	7+280	7+300	7+320	7+340	7+360	7+380	7+400	7+420	7+440	7+460	7+480	7+500	7+520	7+540	7+560



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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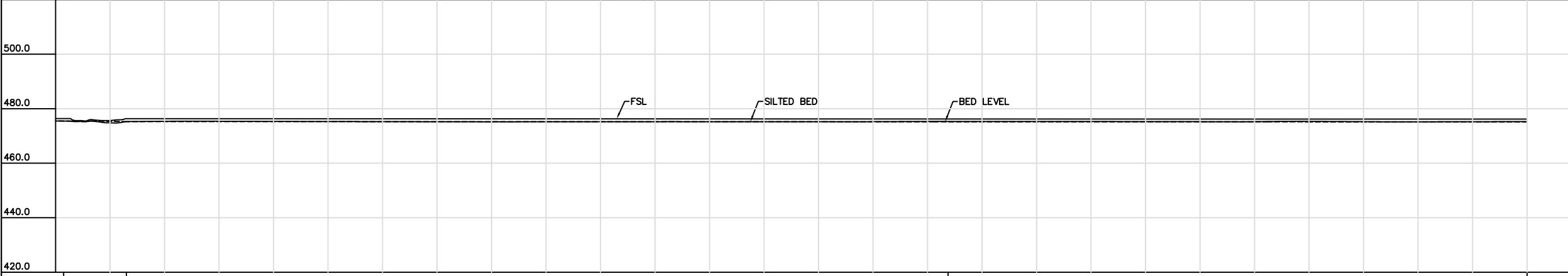
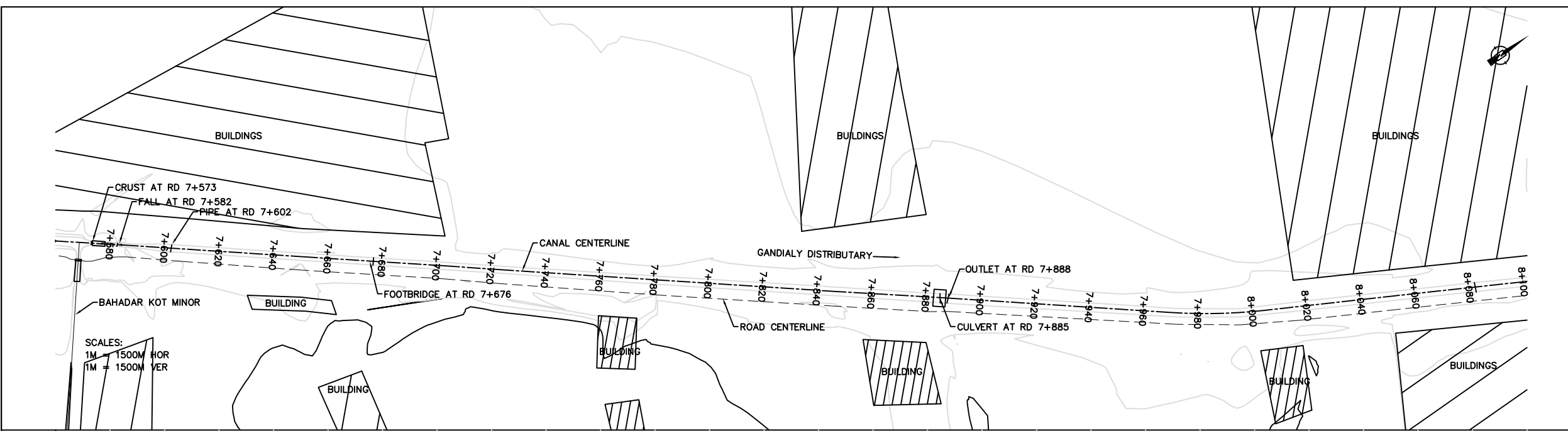
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
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DRG.No:- TND-714 SHEET:- 14 OF 43 SUB SH.- ----

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SLOPE %	FALL STRUCTURE (RAISING OF WALL)	
	Left Side	Right Side
0.02		
0.98		
1.90		
2.015		
REMARKS	EXI.DAMAGED SEC REPLACED WITH CONC.SEC & PROTECTION WALLS ON BOTH SIDES	
F.S.L	74-560 475.46	74-580 475.65
BED LEVEL	74-600 475.37	74-620 475.39
SILTED BED	74-640 475.34	74-660 475.30
RD	74-680 475.26	74-700 475.23



**TENDER DRAWING**

CLIENT:  
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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

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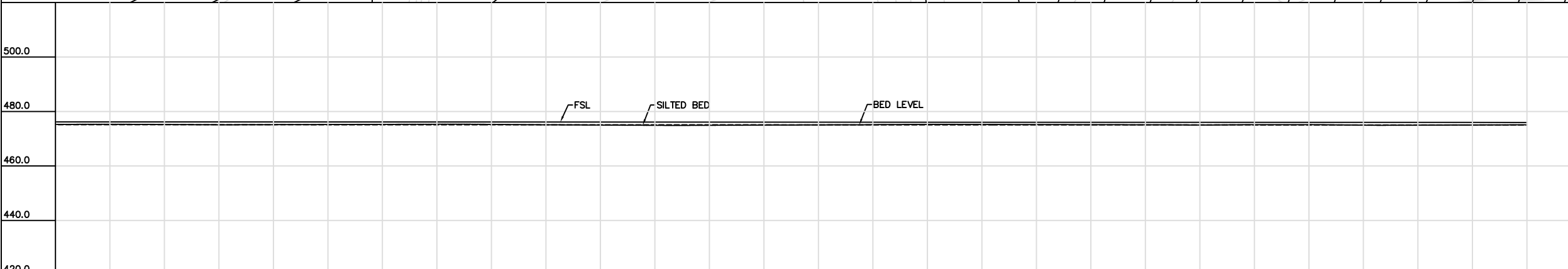
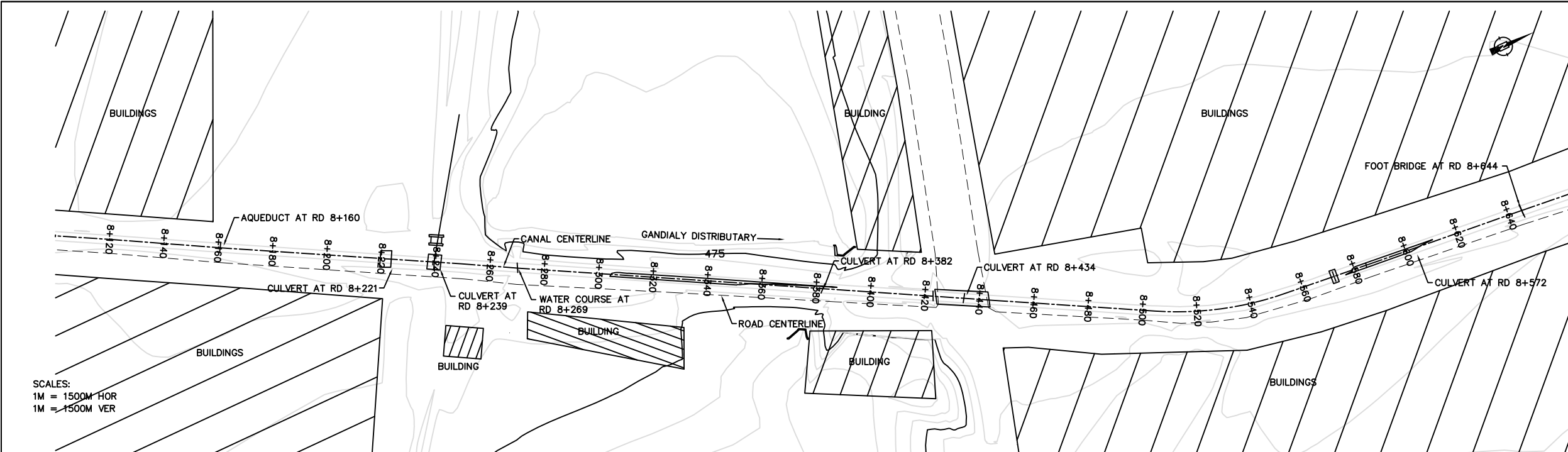
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
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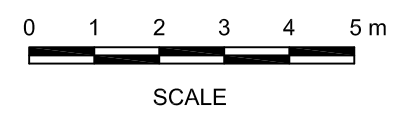
DRG.No:- TND-715	SHEET:- 15 OF 43	SUB SH.-
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SLOPE %	0.02																												
VELOCITY (m/s)	0.98																												
BED WIDTH (m)	1.90																												
DISCHARGE CUMEC	1.954																												
REMARKS	EXI.DAMAGED SEC REPLACED WITH CONC. SEC & PROPOSED PROTECTION WALLS ON BOTH SIDES																												
F.S.L	8+100	8+120	8+140	8+160	8+180	8+200	8+220	8+240	8+260	8+280	8+300	8+320	8+340	8+360	8+380	8+400	8+420	8+440	8+460	8+480	8+500	8+520	8+540	8+560	8+580	8+600	8+620	8+640	
BED LEVEL	475.15	475.14	475.14	475.13	475.13	475.13	475.12	475.12	475.12	475.11	475.11	475.10	475.10	475.09	475.08	475.08	475.07	475.07	475.07	475.06	475.06	475.06	475.06	475.06	475.05	475.05	475.04	475.04	475.03
SILTED BED	475.26	475.22	475.14	475.13	475.13	475.21	475.26	475.31	475.25	475.12	475.02	474.92	474.94	475.01	475.08	475.15	475.24	475.22	475.19	475.15	475.11	475.05	475.05	475.14	475.17	474.99	474.98	475.05	475.11
RD	8+100	8+120	8+140	8+160	8+180	8+200	8+220	8+240	8+260	8+280	8+300	8+320	8+340	8+360	8+380	8+400	8+420	8+440	8+460	8+480	8+500	8+520	8+540	8+560	8+580	8+600	8+620	8+640	



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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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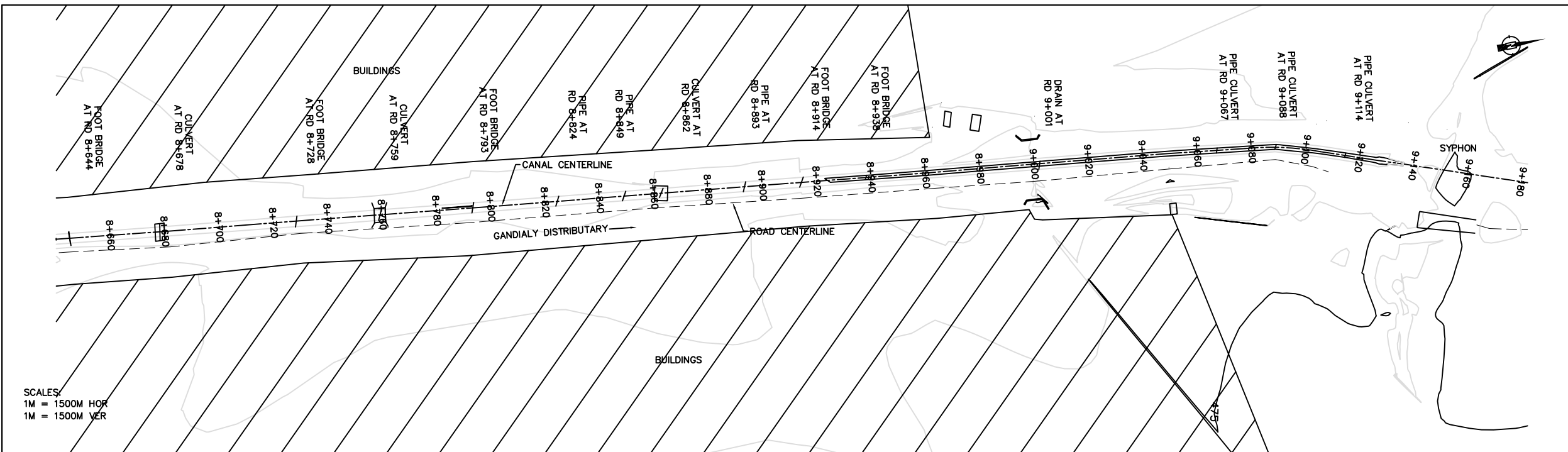
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
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SCALE	DATE
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DRG.No:- TND-716      SHEET:- 16 OF 43      SUB SH.- ----

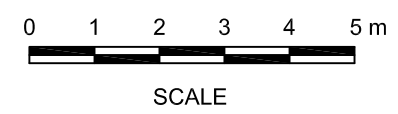
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.02																												
VELOCITY (m/s)	0.98																												
BED WIDTH (m)	1.90																												
DISCHARGE CUMEC	1.954																												
REMARKS	EXI.DAMAGED SEC REPLACED WITH CONC. SEC & PROPOSED PROTECTION WALLS ON BOTH SIDES																												
F.S.L	475.97	475.95	475.93	475.91	475.89	475.87	475.85	475.83	475.81	475.79	475.76	475.74	475.72	475.70	475.68	475.66	475.64	475.62	475.60	475.57	475.55	475.53	475.51	475.49	475.47	476.75	475.18	475.95	
BED LEVEL	475.03	475.03	475.03	475.02	475.02	475.01	475.01	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	475.00	
SILTED BED	475.11	475.14	475.16	475.22	475.17	475.15	475.14	475.12	475.14	475.19	475.24	475.28	475.24	475.20	475.23	475.11	475.12	475.13	475.14	475.11	474.96	474.95	474.83	474.73	474.77	474.80	476.75	475.18	475.95
RD	8+640	8+660	8+680	8+700	8+720	8+740	8+760	8+780	8+800	8+820	8+840	8+860	8+880	8+900	8+920	8+940	8+960	8+980	9+000	9+020	9+040	9+060	9+080	9+100	9+120	9+140	9+160	9+180	



TENDER DRAWING

CLIENT:  
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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

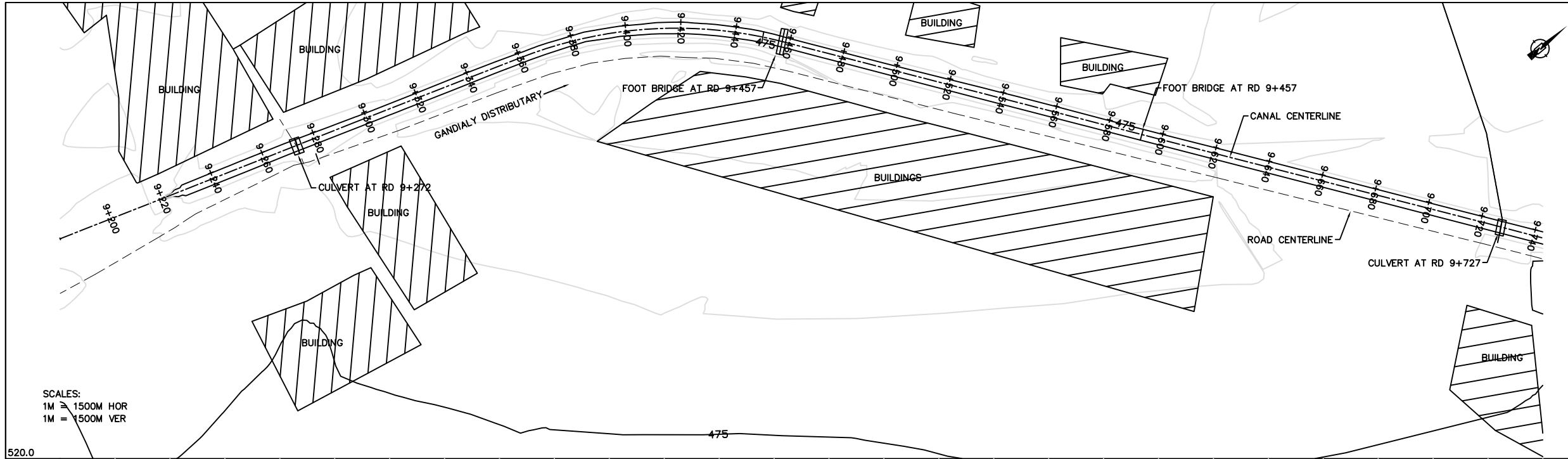
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 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

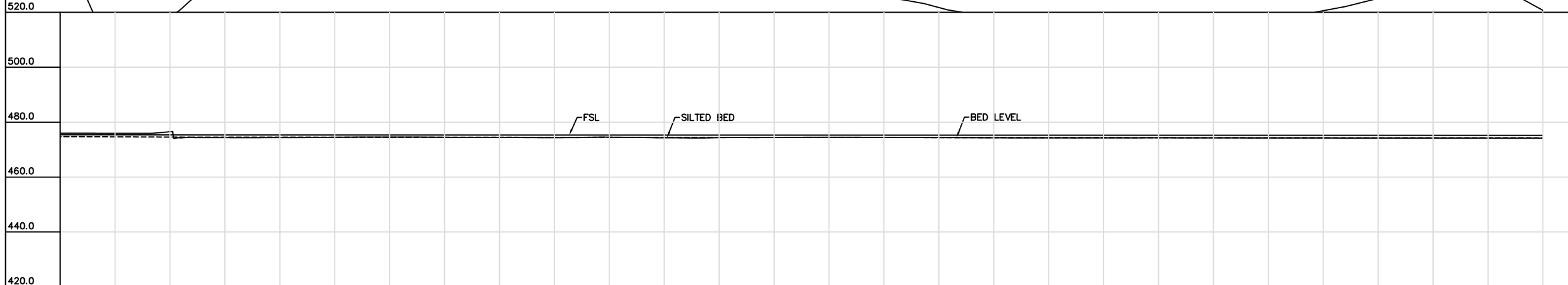
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DRG.No:- TND-717	SHEET:- 17 OF 43	SUB SH.-	SCALE Shown	DATE JANUARY /2021
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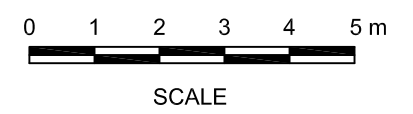
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	SYPHON (CLEARANCE & DE-WATERING)	0.06
VELOCITY (m/s)		0.771
BED WIDTH (m)		2.2
DISCHARGE CUMEC		1.954
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL	
F.S.L		475.34 475.33 475.33 475.32 475.32 475.31 475.30 475.30 475.29 475.29 475.28 475.28 475.27 475.27 475.26 475.26 475.25 475.25 475.24 475.24 475.23 475.23 475.22 475.22 475.21 475.21 475.20 475.20
BED LEVEL		475.95 475.93 476.50 474.52 474.52 474.51 474.51 474.50 474.49 474.48 474.48 474.47 474.47 474.46 474.46 474.45 474.45 474.44 474.44 474.43 474.43 474.42 474.42 474.41 474.41 474.40 474.40 474.39 474.39 474.38 474.38 474.37 474.37 474.36 474.36 474.35 474.35 474.34 474.34 474.33 474.33 474.32 474.32 474.31 474.31 474.30 474.30 474.29 474.29 474.28 474.28
SILTED BED		
RD		9+180 9+200 9+220 9+240 9+260 9+280 9+300 9+320 9+340 9+360 9+380 9+400 9+420 9+440 9+460 9+480 9+500 9+520 9+540 9+560 9+580 9+600 9+620 9+640 9+660 9+680 9+700 9+720



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

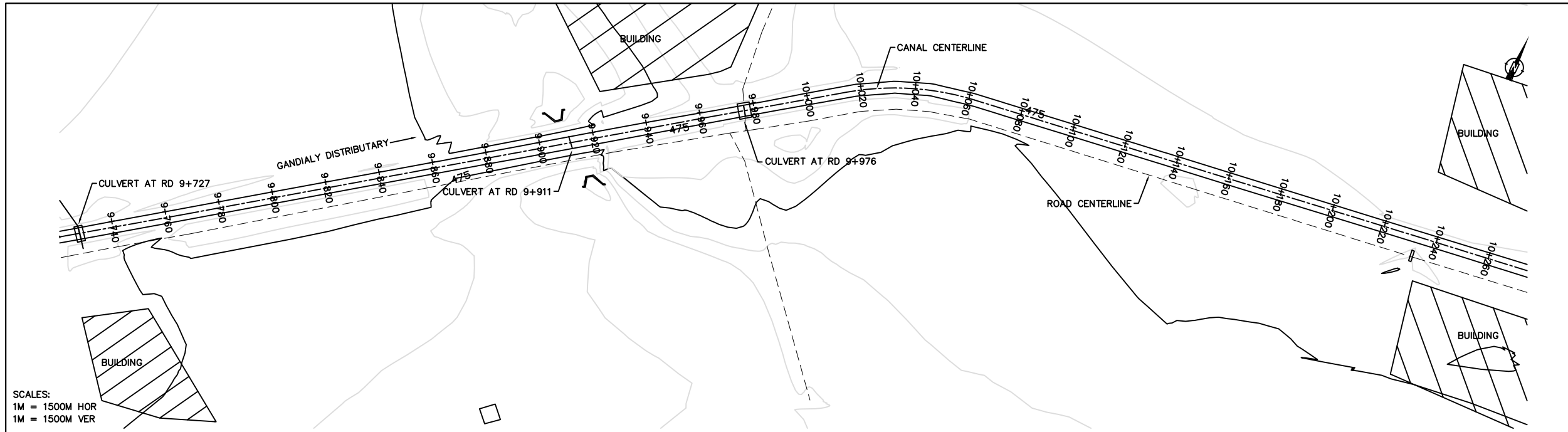
TITLE:  
**PLAN & PROFILE OF TANDA DAM  
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SCALE	DATE
Shown	JANUARY / 2021

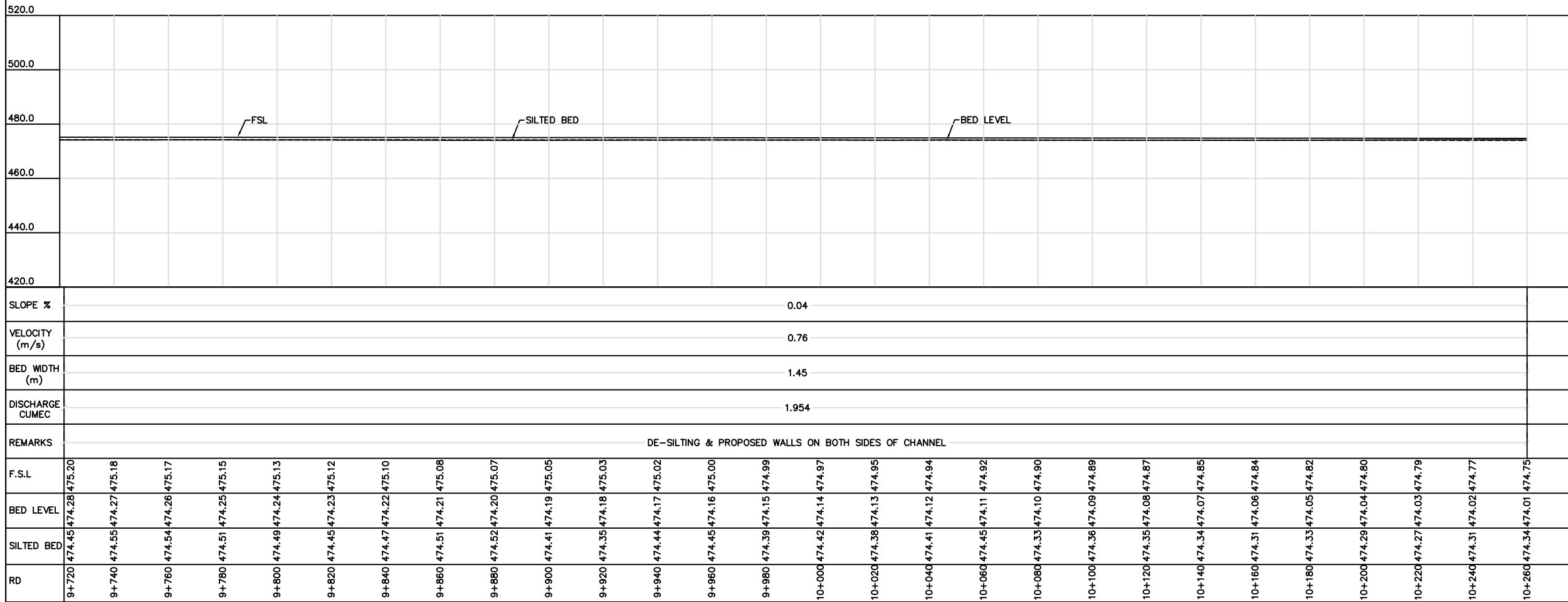
DRG.No:- TND-718      SHEET:- 18 OF 43      SUB SH.- ----



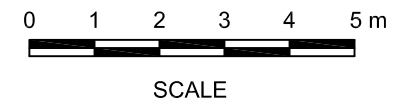
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.04
VELOCITY (m/s)	0.76
BED WIDTH (m)	1.45
DISCHARGE CUMEC	1.954
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL



TENDER DRAWING

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

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 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
 **ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

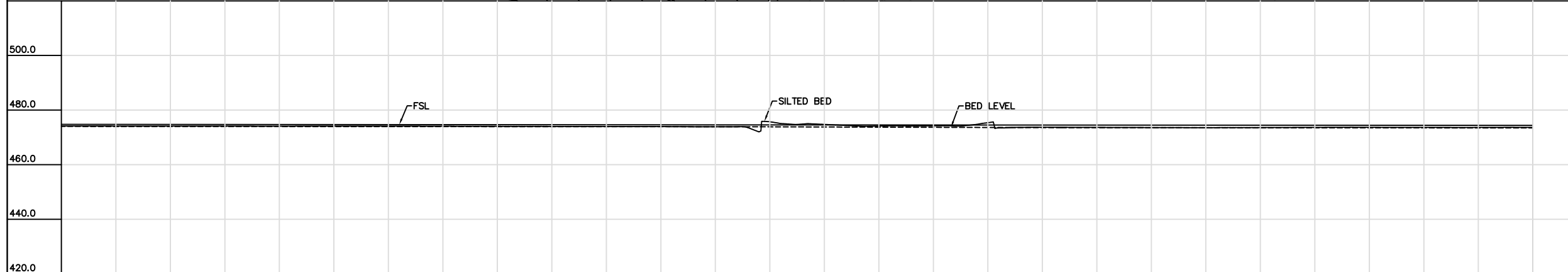
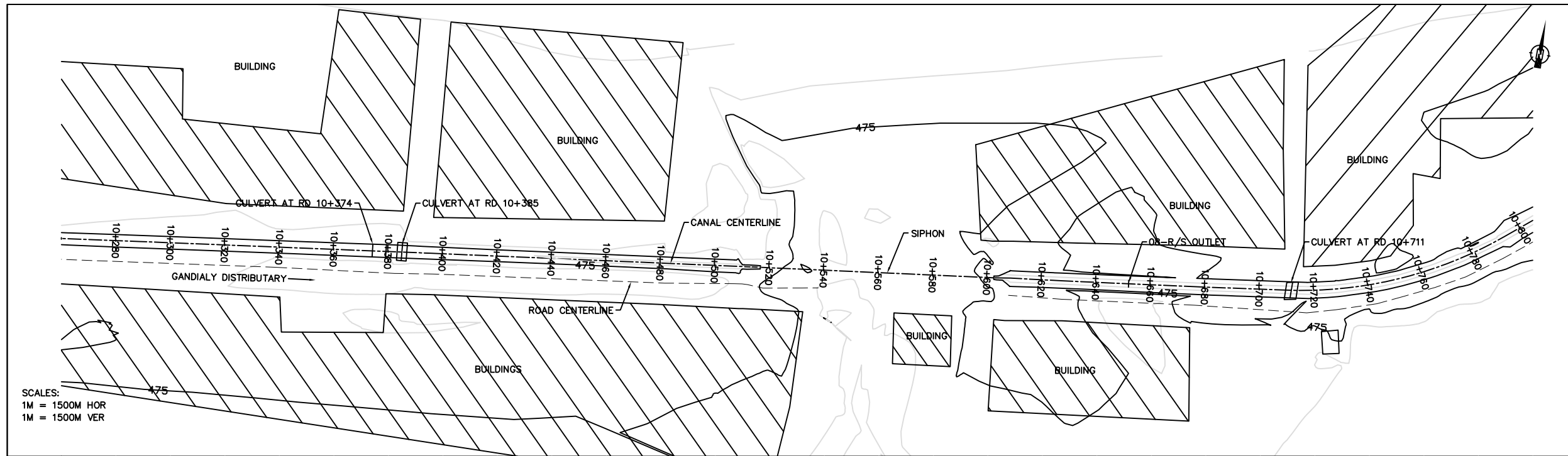
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**GANDIALY DISTRIBUTARY**

SCALE: \_\_\_\_\_ DATE: \_\_\_\_\_  
Shown: JANUARY / 2021

DRG.No:- TND-719 SHEET:- 19 OF 43 SUB SH.- ----

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SLOPE %	0.04										SYPHON CLEARANCE & DE-WATERING										0.05					0.05																																		
VELOCITY (m/s)	0.76																				0.853					0.853																																		
BED WIDTH (m)	1.45																				1.3					1.3																																		
DISCHARGE CUMEC	1.954																				1.954					1.833																																		
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																																																											
WATER LEVEL	10+260	10+280	10+300	10+320	10+340	10+360	10+380	10+400	10+420	10+440	10+460	10+480	10+500	10+520	10+540	10+560	10+580	10+600	10+620	10+640	10+660	10+680	10+700	10+720	10+740	10+760	10+780	10+800	474.75	474.74	474.72	474.71	474.69	474.67	474.66	474.64	474.62	474.61	474.59	474.57	474.56	475.71	474.74	474.15	474.23	475.35	474.50	474.49	474.48	474.47	474.46	474.45	474.44	474.43	474.42	474.41				
BED LEVEL	10+260	10+280	10+300	10+320	10+340	10+360	10+380	10+400	10+420	10+440	10+460	10+480	10+500	10+520	10+540	10+560	10+580	10+600	10+620	10+640	10+660	10+680	10+700	10+720	10+740	10+760	10+780	10+800	474.01	474.00	473.99	473.98	473.97	473.96	473.95	473.94	473.93	473.92	473.91	473.90	473.89	475.71	474.74	474.15	474.23	475.35	474.50	474.49	474.48	474.47	474.46	474.45	474.44	474.43	474.42	474.41				
SILTED BED	10+260	10+280	10+300	10+320	10+340	10+360	10+380	10+400	10+420	10+440	10+460	10+480	10+500	10+520	10+540	10+560	10+580	10+600	10+620	10+640	10+660	10+680	10+700	10+720	10+740	10+760	10+780	10+800	474.23	474.15	474.24	474.22	474.21	474.33	474.32	474.29	474.25	474.25	474.27	474.24	474.57	475.71	474.74	474.15	474.23	475.35	474.50	474.49	474.48	474.47	474.46	474.45	474.44	474.43	474.42	474.41				
RD	10+260	10+280	10+300	10+320	10+340	10+360	10+380	10+400	10+420	10+440	10+460	10+480	10+500	10+520	10+540	10+560	10+580	10+600	10+620	10+640	10+660	10+680	10+700	10+720	10+740	10+760	10+780	10+800																																



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

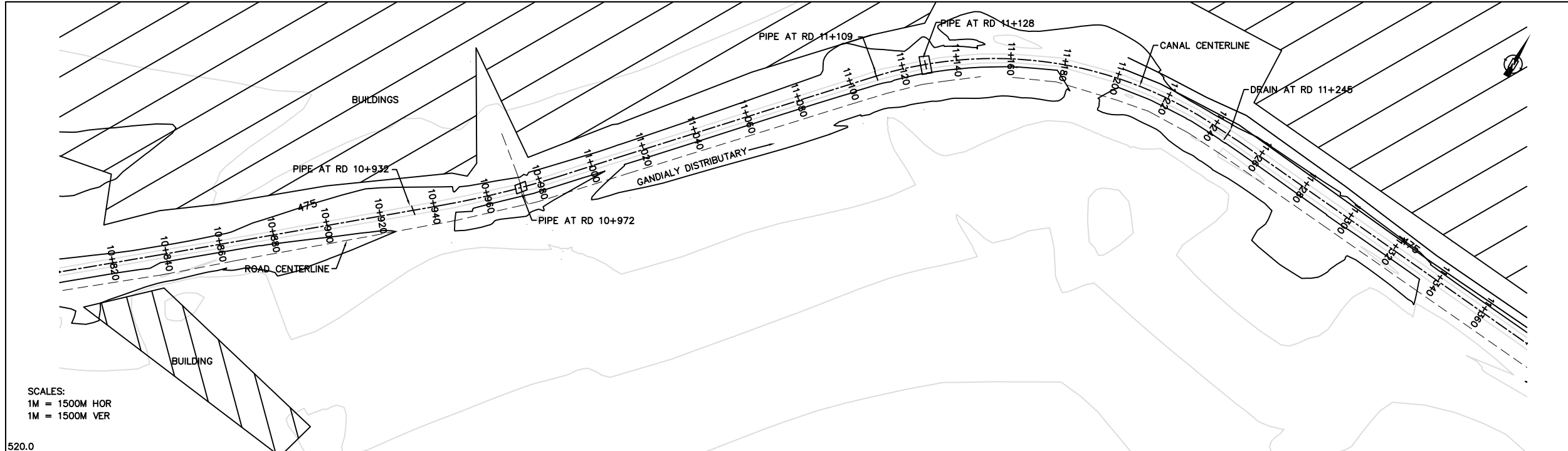
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

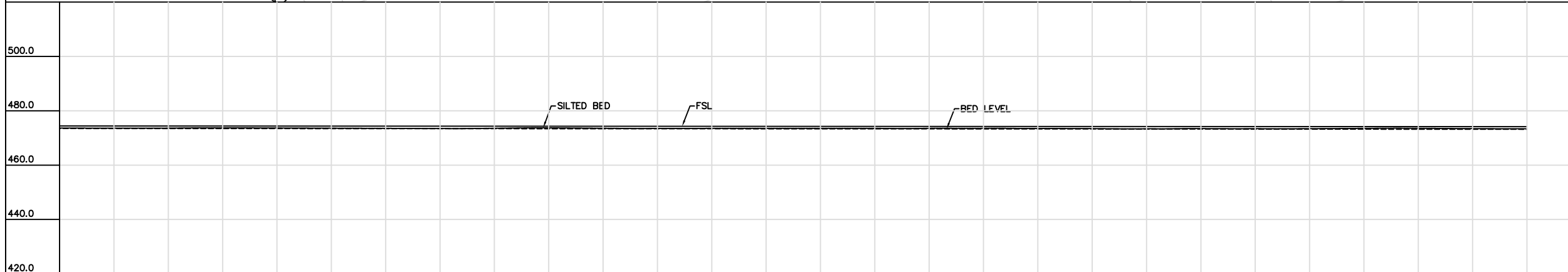
TITLE:  
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**GANDIALY DISTRIBUTARY**

DRG.No:- TND-720	SHEET:- 20 OF 43	SUB SH.-	SCALE	DATE
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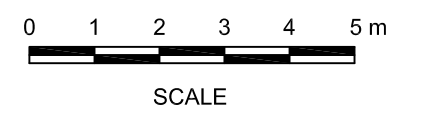


SCALES:  
1M = 1500M HOR  
1M = 1500M VER



STATION	F.S.L.	BED LEVEL	SILTED BED	RD
10+800	473.65	473.47	474.41	
10+820	473.60	473.46	474.40	
10+840	473.62	473.45	474.39	
10+860	473.71	473.44	474.37	
10+880	473.66	473.44	474.36	
10+900	473.59	473.43	474.35	
10+920	473.51	473.42	474.34	
10+940	473.54	473.41	474.33	
10+960	473.55	473.40	474.32	
10+980	473.73	473.39	474.31	
11+000	473.55	473.38	474.30	
11+020	473.57	473.37	474.29	
11+040	473.51	473.36	474.28	
11+060	473.53	473.35	474.27	
11+080	473.52	473.34	474.26	
11+100	473.52	473.33	474.24	
11+120	473.54	473.32	474.23	
11+140	473.55	473.31	474.22	
11+160	473.49	473.30	474.22	
11+180	473.43	473.29	474.21	
11+200	473.37	473.27	474.20	
11+220	473.45	473.26	474.20	
11+240	473.41	473.24	474.19	
11+260	473.41	473.23	474.18	
11+280	473.52	473.21	474.18	
11+300	473.54	473.20	474.17	
11+320	473.43	473.19	474.16	
11+340	473.36	473.17	474.16	

DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

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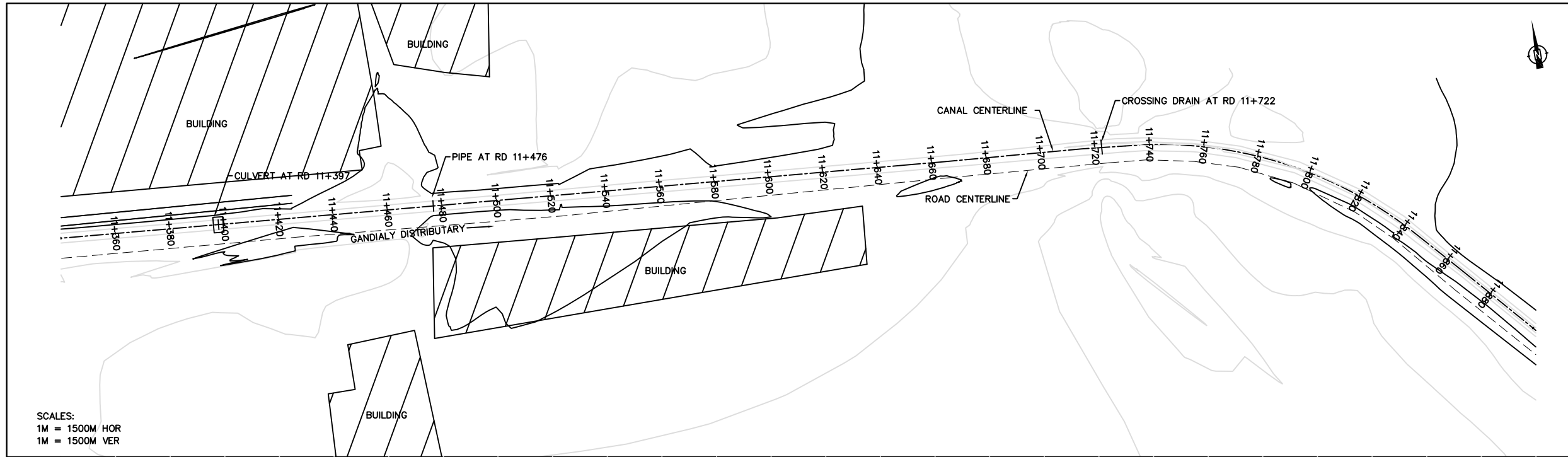
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

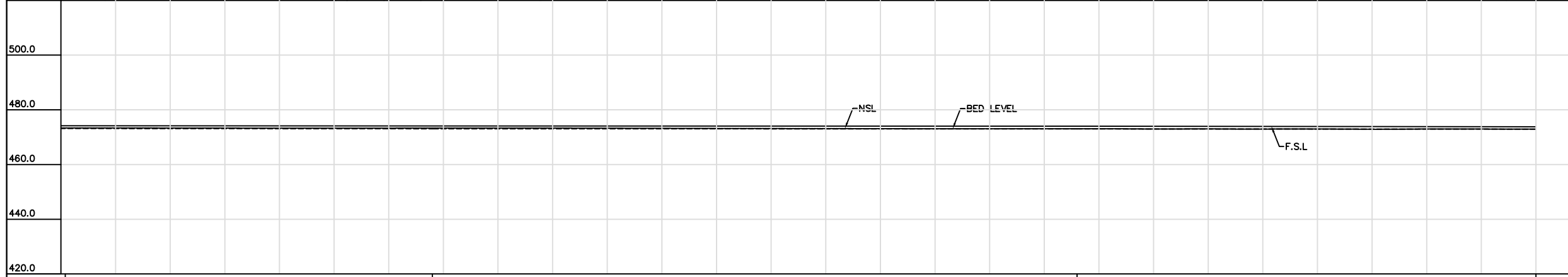
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 GANDIALY DISTRIBUTARY**

DRG.No:- TND-721	SHEET:- 21 OF 43	SUB SH.-	SCALE: Shown	DATE: JANUARY / 2021
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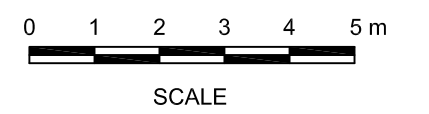
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



RD	11+340	11+360	11+380	11+400	11+420	11+440	11+460	11+480	11+500	11+520	11+540	11+560	11+580	11+600	11+620	11+640	11+660	11+680	11+700	11+720	11+740	11+760	11+780	11+800	11+820	11+840	11+860	11+880								
F.S.L	473.36	473.35	473.34	473.31	473.28	473.28	473.30	473.32	473.34	473.32	473.28	473.24	473.19	473.16	473.13	473.13	473.16	473.16	473.16	473.26	473.11	473.22	473.15	473.12	473.10	473.13	473.22	473.83	473.81							
BED LEVEL	473.17	473.16	473.14	473.13	473.12	473.12	473.09	473.07	473.10	473.06	473.06	473.05	473.07	473.04	473.04	473.03	473.04	473.04	473.02	473.01	473.00	473.99	472.99	473.96	473.94	472.98	473.86	473.86	473.83	473.81						
SILTED BED	473.36	473.35	473.34	473.31	473.28	473.28	473.30	473.32	473.34	473.32	473.28	473.24	473.19	473.16	473.13	473.13	473.16	473.16	473.16	473.26	473.11	473.22	473.15	473.12	473.10	473.13	473.22	473.83	473.81							
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL															DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																				
DISCHARGE CUMEC	1.833															1.833																				
BED WIDTH (m)	1.3															1.7											1.1									
VELOCITY (m/s)	0.924															0.69											0.80									
SLOPE %	0.07															0.06											0.05									



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

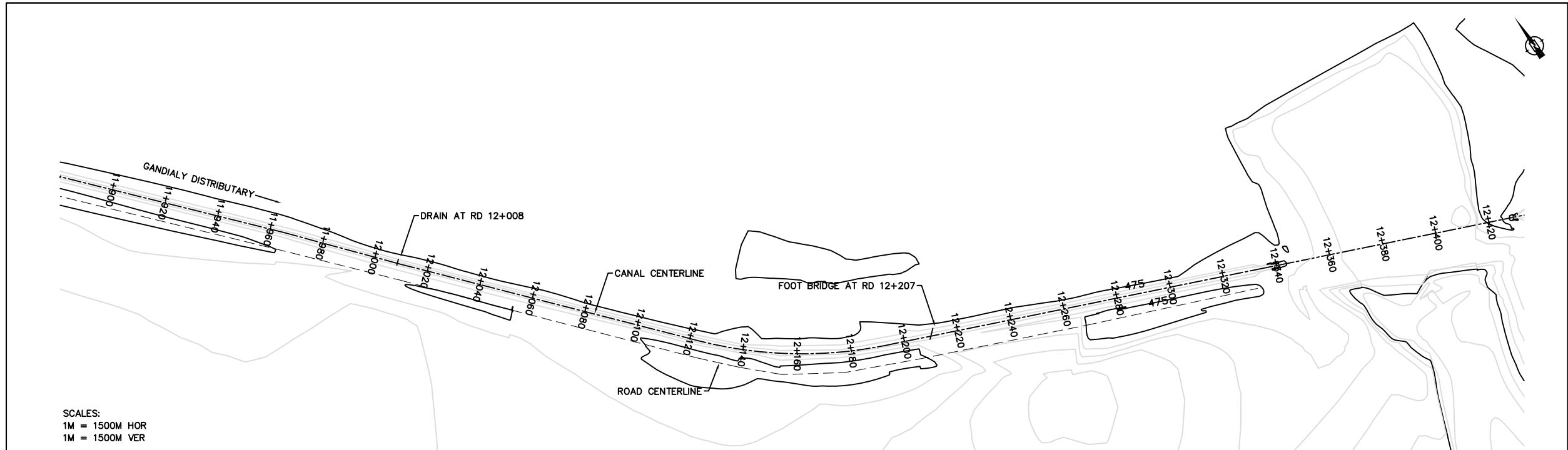
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 IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

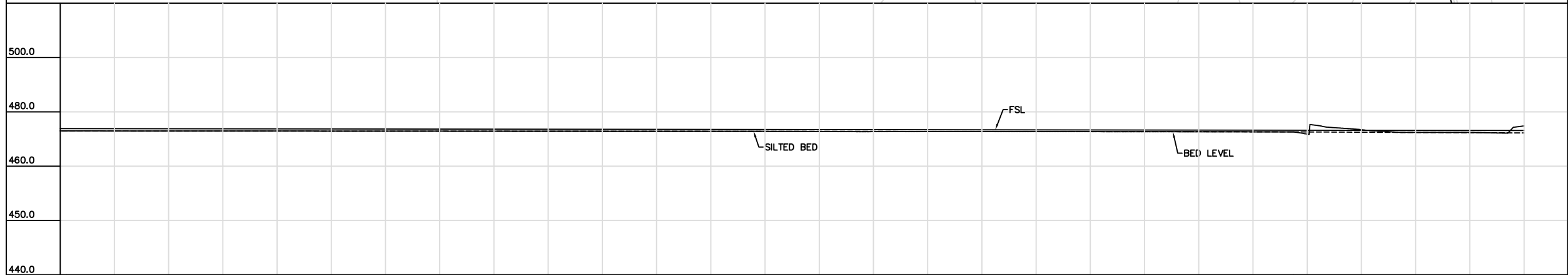
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DRG.No:- TND-722	SHEET:- 22 OF 43	SUB SH.-	SCALE	DATE
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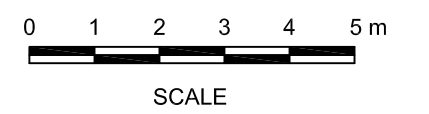
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER






SLOPE %	0.05																											
VELOCITY (m/s)	80																											
BED WIDTH (m)	1.1																											
DISCHARGE CUMEC	1.833																											
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																											
F.S.L	11+880	11+900	11+920	11+940	11+960	11+980	12+000	12+020	12+040	12+060	12+080	12+100	12+120	12+140	12+160	12+180	12+200	12+220	12+240	12+260	12+280	12+300	12+320	12+340	12+360	12+380	12+400	12+420
BED LEVEL	472.93	472.92	472.91	472.90	472.89	472.88	472.87	472.86	472.85	472.84	472.83	472.82	472.81	472.80	472.79	472.78	472.77	472.76	472.75	472.74	472.73	472.72	472.71	472.70	472.69	472.68	472.67	472.66
SILTED BED	472.96	472.95	472.94	472.93	472.92	472.91	472.90	472.89	472.88	472.87	472.86	472.85	472.84	472.83	472.82	472.81	472.80	472.79	472.78	472.77	472.76	472.75	472.74	472.73	472.72	472.71	472.70	472.69
RD	11+880	11+900	11+920	11+940	11+960	11+980	12+000	12+020	12+040	12+060	12+080	12+100	12+120	12+140	12+160	12+180	12+200	12+220	12+240	12+260	12+280	12+300	12+320	12+340	12+360	12+380	12+400	12+420



**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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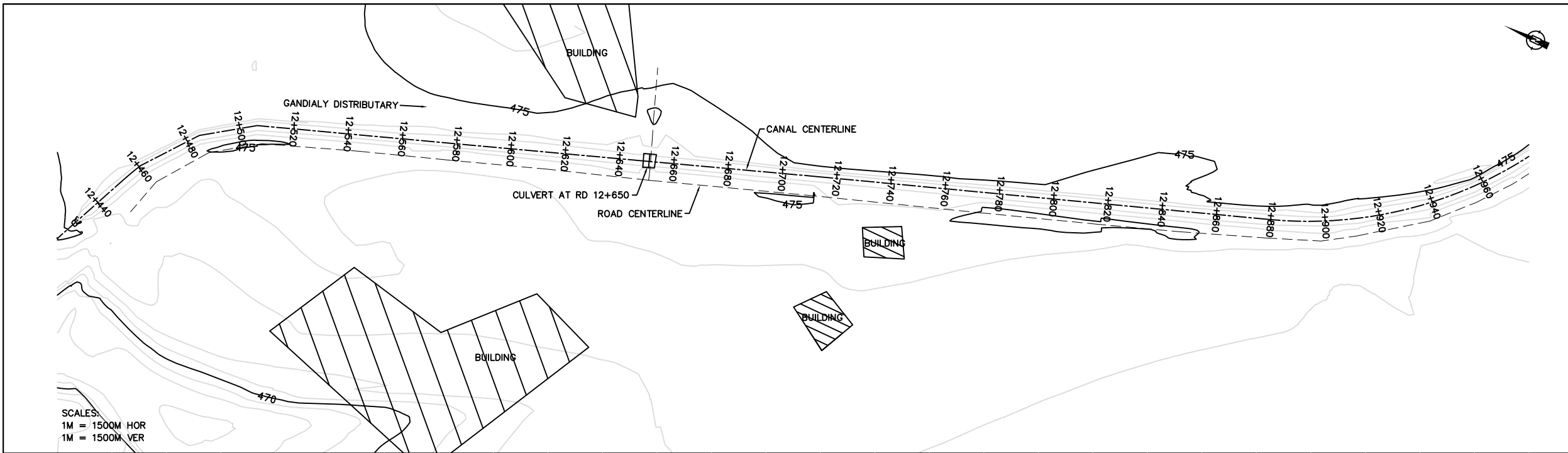
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 **ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

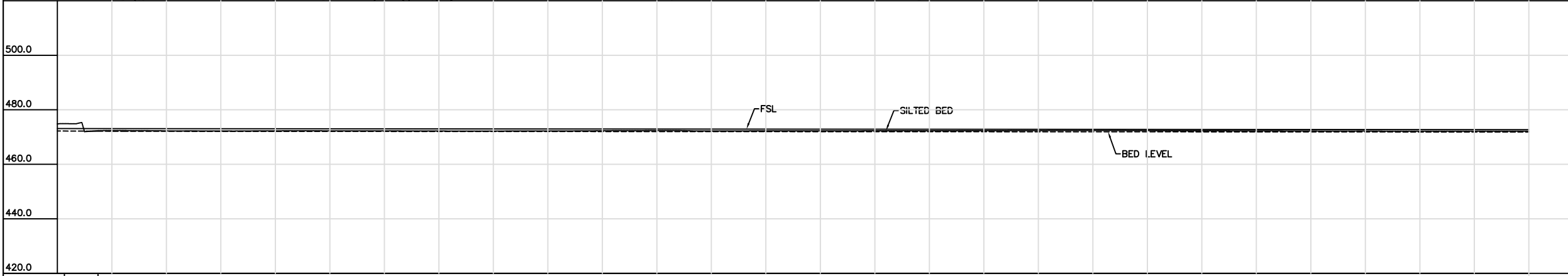
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DRG.No:- TND-713	SHEET:- 23 OF 44	SUB SH.-	SCALE	DATE
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.05																																																																																																															
VELOCITY (m/s)	0.87																																																																																																															
BED WIDTH (m)	1.1																																																																																																															
DISCHARGE CUMEC	1.833																																																																																																															
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																																																																																																															
F.S.L	12+440	472.38	472.14	473.09	12+460	472.26	472.11	473.07	12+480	472.23	472.10	473.06	12+500	472.28	472.09	473.05	12+520	472.29	472.08	473.03	12+540	472.26	472.07	473.02	12+560	472.22	472.06	473.00	12+580	472.21	472.05	472.99	12+600	472.24	472.04	472.97	12+620	472.31	472.03	472.96	12+640	472.38	472.02	472.95	12+660	472.23	472.01	472.93	12+680	472.26	472.00	472.92	12+700	472.28	471.99	472.90	12+720	472.29	471.98	472.89	12+740	472.31	471.97	472.87	12+760	472.34	471.96	472.86	12+780	472.39	471.95	472.85	12+800	472.42	471.94	472.83	12+820	472.38	471.93	472.82	12+840	472.30	471.92	472.80	12+860	472.27	471.91	472.79	12+880	472.22	471.90	472.77	12+900	472.21	471.89	472.76	12+920	472.14	471.88	472.75	12+940	472.16	471.87	472.73	12+960	472.16	471.86	472.72				
BED LEVEL	12+440	472.38	472.14	473.09	12+460	472.26	472.11	473.07	12+480	472.23	472.10	473.06	12+500	472.28	472.09	473.05	12+520	472.29	472.08	473.03	12+540	472.26	472.07	473.02	12+560	472.22	472.06	473.00	12+580	472.21	472.05	472.99	12+600	472.24	472.04	472.97	12+620	472.31	472.03	472.96	12+640	472.38	472.02	472.95	12+660	472.23	472.01	472.93	12+680	472.26	472.00	472.92	12+700	472.28	471.99	472.90	12+720	472.29	471.98	472.89	12+740	472.31	471.97	472.87	12+760	472.34	471.96	472.86	12+780	472.39	471.95	472.85	12+800	472.42	471.94	472.83	12+820	472.38	471.93	472.82	12+840	472.30	471.92	472.80	12+860	472.27	471.91	472.79	12+880	472.22	471.90	472.77	12+900	472.21	471.89	472.76	12+920	472.14	471.88	472.75	12+940	472.16	471.87	472.73	12+960	472.16	471.86	472.72				
SILTED BED	12+440	472.38	472.14	473.09	12+460	472.26	472.11	473.07	12+480	472.23	472.10	473.06	12+500	472.28	472.09	473.05	12+520	472.29	472.08	473.03	12+540	472.26	472.07	473.02	12+560	472.22	472.06	473.00	12+580	472.21	472.05	472.99	12+600	472.24	472.04	472.97	12+620	472.31	472.03	472.96	12+640	472.38	472.02	472.95	12+660	472.23	472.01	472.93	12+680	472.26	472.00	472.92	12+700	472.28	471.99	472.90	12+720	472.29	471.98	472.89	12+740	472.31	471.97	472.87	12+760	472.34	471.96	472.86	12+780	472.39	471.95	472.85	12+800	472.42	471.94	472.83	12+820	472.38	471.93	472.82	12+840	472.30	471.92	472.80	12+860	472.27	471.91	472.79	12+880	472.22	471.90	472.77	12+900	472.21	471.89	472.76	12+920	472.14	471.88	472.75	12+940	472.16	471.87	472.73	12+960	472.16	471.86	472.72				
RD	12+420				12+440				12+460				12+480				12+500				12+520				12+540				12+560				12+580				12+600				12+620				12+640				12+660				12+680				12+700				12+720				12+740				12+760				12+780				12+800				12+820				12+840				12+860				12+880				12+900				12+920				12+940				12+960			



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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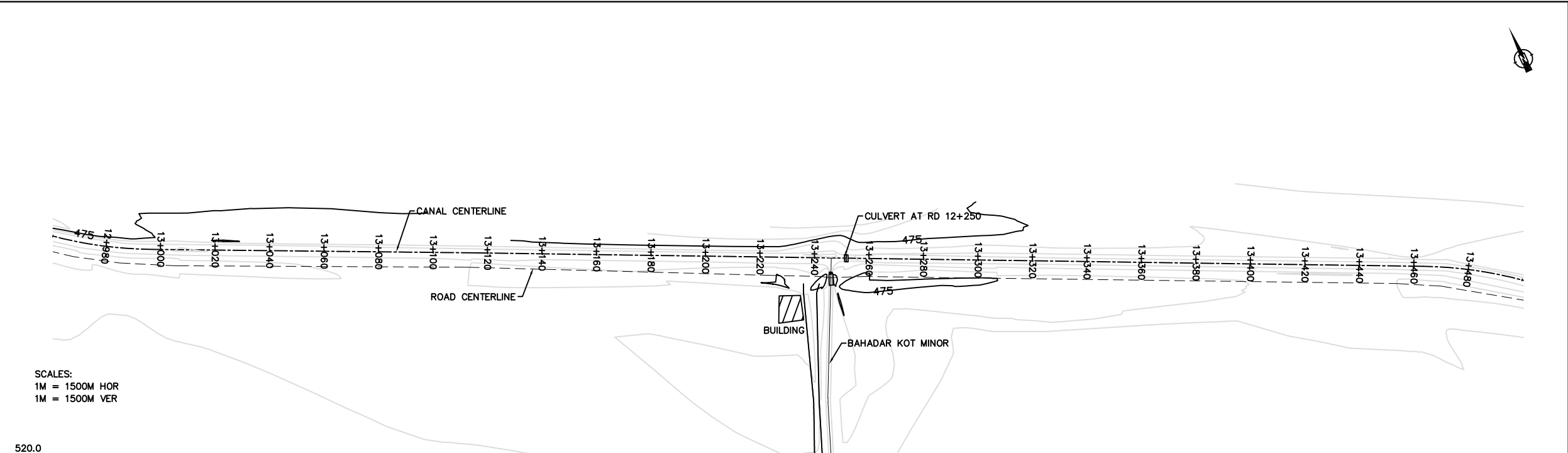
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 GANDIALY DISTRIBUTARY**

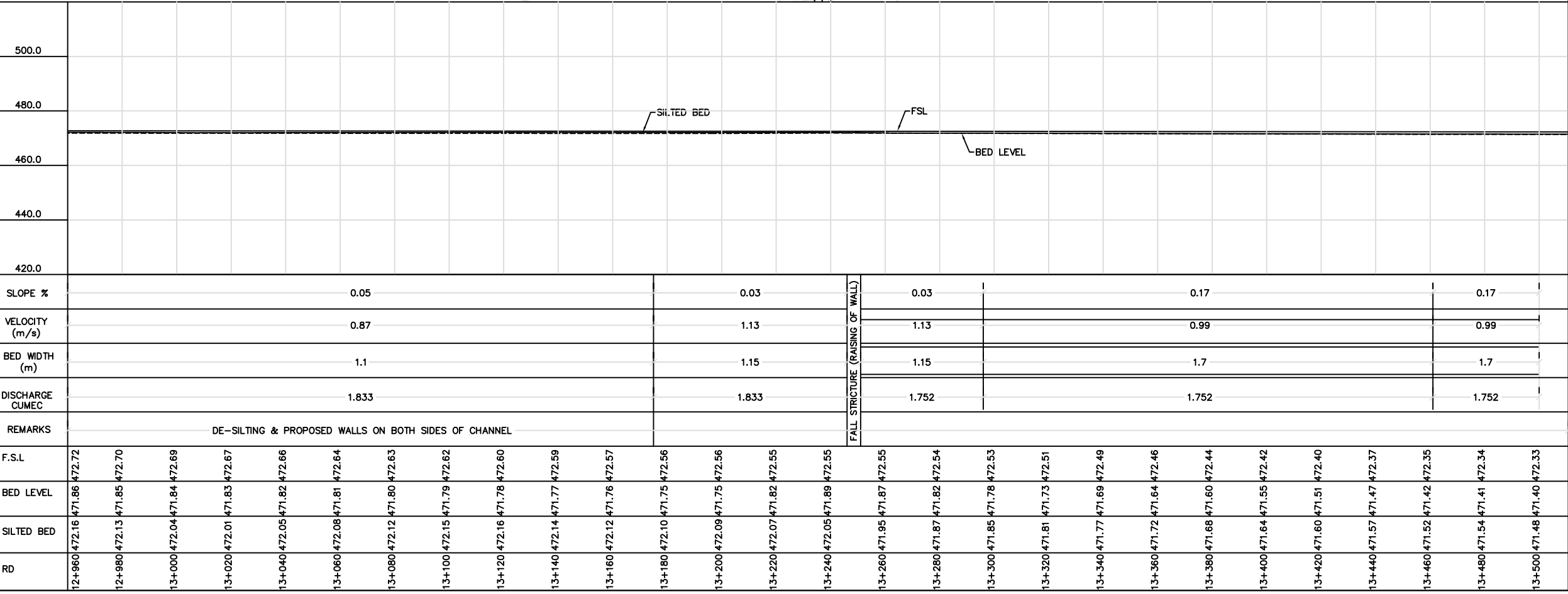
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-724 SHEET:- 24 OF 43 SUB SH.- ----

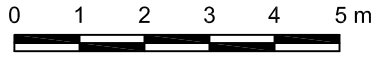
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



Station	SLOPE %	VELOCITY (m/s)	BED WIDTH (m)	DISCHARGE CUMEC	REMARKS
12+960	0.05	0.87	1.1	1.833	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL
12+980					
13+000					
13+020					
13+040					
13+060					
13+080					
13+100					
13+120					
13+140					
13+160					
13+180					
13+200					
13+220	0.03	1.13	1.15	1.833	FALL STRUCTURE (RAISING OF WALL)
13+240	0.03	1.13	1.15	1.752	
13+260					
13+280					
13+300					
13+320					
13+340					
13+360					
13+380					
13+400					
13+420					
13+440					
13+460					
13+480					
13+500					



SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

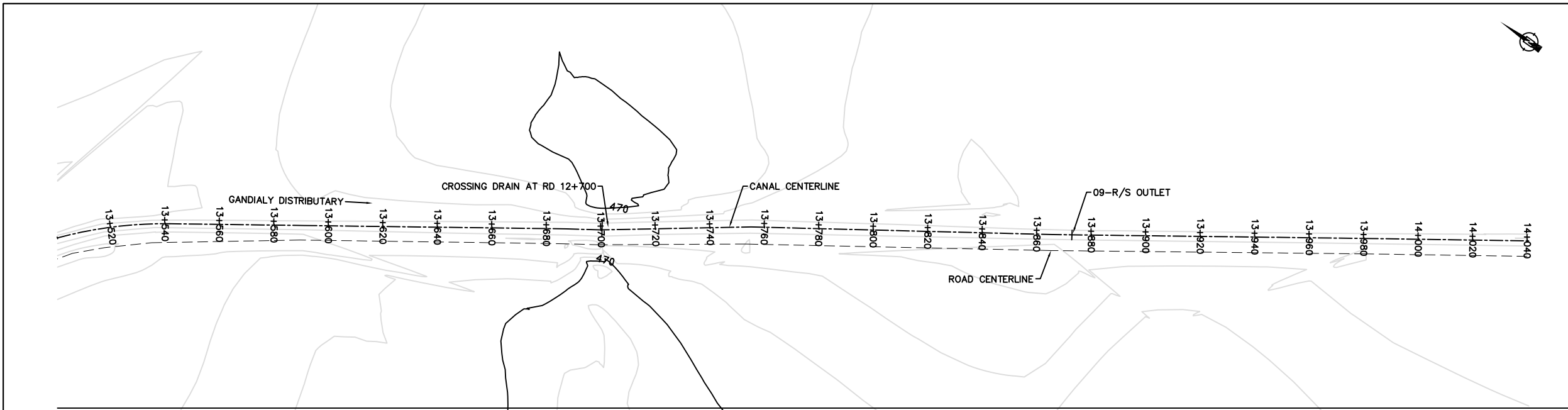
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

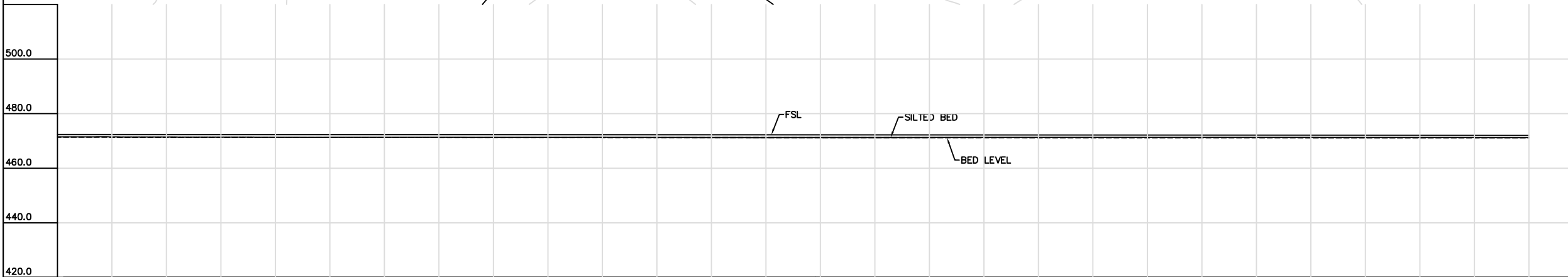
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DRG.No:- TND-725	SHEET:- 25 OF 43	SUB SH.-	SCALE Shown	DATE JANUARY /2021
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SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER



SLOPE %	0.17										0.04										0.04																			
VELOCITY (m/s)	0.99										0.80										0.80																			
BED WIDTH (m)	1.7										1.4										1.4																			
DISCHARGE CUMEC	1.752										1.752										1.667																			
REMARKS	DE-SILTING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																				DE-SILTING & PROPOSED WALL ON R/S OF CHANNEL																			
F.S.L	13+500	13+520	13+540	13+560	13+580	13+600	13+620	13+640	13+660	13+680	13+700	13+720	13+740	13+760	13+780	13+800	13+820	13+840	13+860	13+880	13+900	13+920	13+940	13+960	13+980	14+000	14+020	14+040												
BED LEVEL	471.40	471.38	471.37	471.36	471.35	471.33	471.32	471.26	471.25	471.24	471.23	471.22	471.22	471.21	471.20	471.19	471.18	471.17	471.16	471.15	471.14	471.12	471.11	471.10	471.09	471.08	471.07	471.06												
SILTED BED	471.48	471.48	471.42	471.41	471.37	471.35	471.32	471.26	471.25	471.24	471.23	471.22	471.22	471.21	471.20	471.19	471.18	471.17	471.16	471.15	471.14	471.12	471.11	471.10	471.09	471.08	471.07	471.06												
RD	13+500	13+520	13+540	13+560	13+580	13+600	13+620	13+640	13+660	13+680	13+700	13+720	13+740	13+760	13+780	13+800	13+820	13+840	13+860	13+880	13+900	13+920	13+940	13+960	13+980	14+000	14+020	14+040												



**TENDER DRAWING**

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

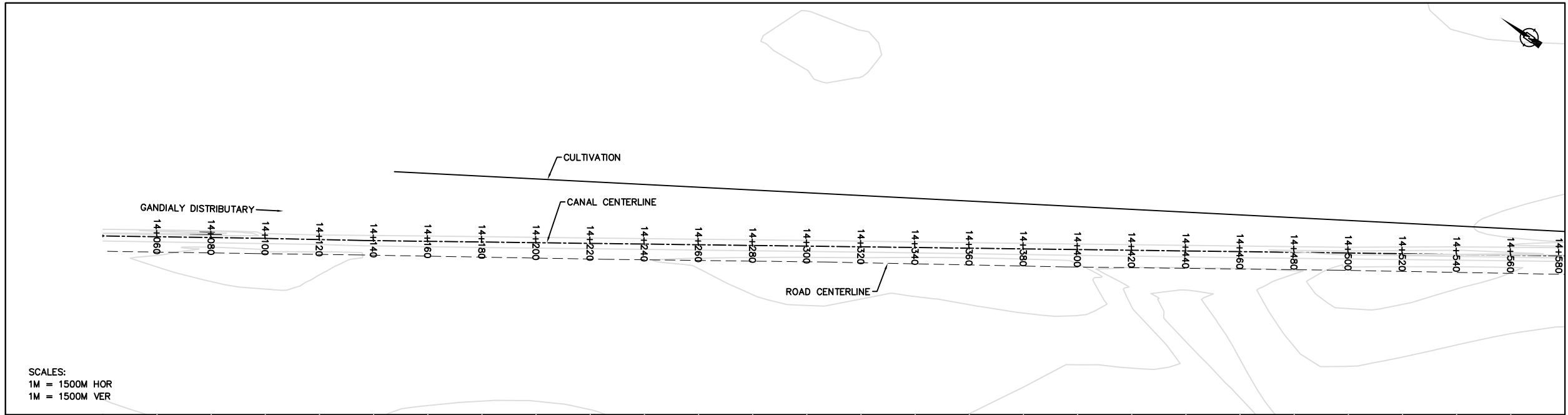
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SCALE	DATE
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DRG.No:- TND-726      SHEET:- 26 OF 43      SUB SH.- ----

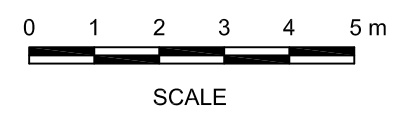


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER




500.0																												
480.0																												
460.0																												
440.0																												
SLOPE %	0.04										0.06																	
VELOCITY (m/s)	0.80										0.99																	
BED WIDTH (m)	1.4										1.05																	
DISCHARGE CUMEC	1.667										1.667																	
REMARKS	DE-SILTING & PROPOSED WALL ON R/S OF CHANNEL																											
F.S.L	472.06	472.05	472.04	472.03	472.02	472.01	472.00	471.99	471.98	471.97	471.96	471.95	471.94	471.93	471.92	471.91	471.90	471.88	471.87	471.86	471.85	471.84	471.83	471.82	471.81	471.80	471.79	471.77
BED LEVEL	471.13	471.12	471.12	471.11	471.10	471.10	471.09	471.08	471.07	471.07	471.06	471.05	471.05	471.04	471.03	471.02	471.01	470.99	470.98	470.97	470.96	470.95	470.94	470.93	470.92	470.91	470.90	470.88
SILTED BED	471.26	471.25	471.24	471.24	471.26	471.26	471.25	471.23	471.21	471.20	471.16	471.12	471.10	471.09	471.10	471.12	471.13	471.14	471.14	471.10	471.07	471.04	471.00	470.98	470.99	471.00	470.99	470.98
RD	14+040	14+060	14+080	14+100	14+120	14+140	14+160	14+180	14+200	14+220	14+240	14+260	14+280	14+300	14+320	14+340	14+360	14+380	14+400	14+420	14+440	14+460	14+480	14+500	14+520	14+540	14+560	14+580



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CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

**CAMEOS**  
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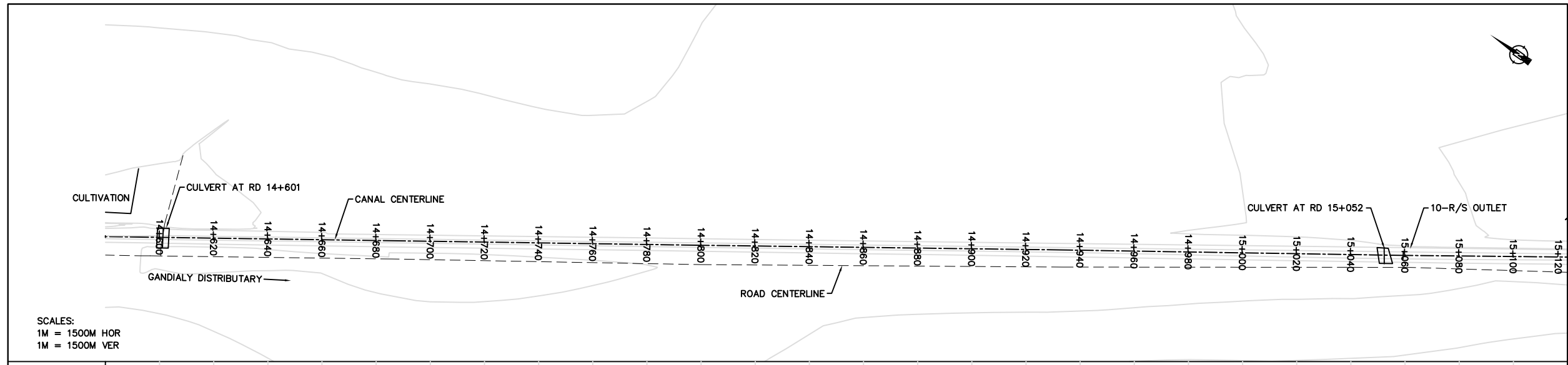
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
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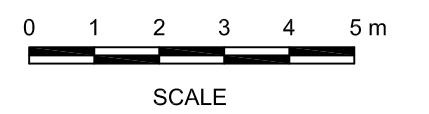
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

	500.0																											
	480.0																											
	460.0																											
	440.0																											
	420.0																											
SLOPE %	0.06										0.06										0.06							
VELOCITY (m/s)	0.99										0.99										0.99							
BED WIDTH (m)	1.05										1.04										1.04							
DISCHARGE CUMEC	1.667										1.667										1.616							
REMARKS	DE-SILTING & PROPOSED WALL ON R/S OF CHANNEL																											
F.S.L	471.77	471.76	471.75	471.74	471.73	471.72	471.71	471.70	471.69	471.68	471.66	471.65	471.64	471.63	471.62	471.61	471.60	471.59	471.58	471.57	471.56	471.54	471.53	471.52	471.51	471.50	471.49	471.48
BED LEVEL	470.88	470.87	470.86	470.85	470.84	470.83	470.81	470.80	470.79	470.78	470.77	470.75	470.74	470.73	470.72	470.70	470.69	470.68	470.67	470.65	470.64	470.63	470.62	470.60	470.59	470.58	470.57	470.55
SILTED BED	470.98	470.97	470.96	470.94	470.92	470.89	470.87	470.86	470.84	470.82	470.81	470.79	470.80	470.82	470.83	470.84	470.84	470.85	470.85	470.85	470.83	470.81	470.78	470.75	470.73	470.70	470.71	470.70
RD	14+580	14+600	14+620	14+640	14+660	14+680	14+700	14+720	14+740	14+760	14+780	14+800	14+820	14+840	14+860	14+880	14+900	14+920	14+940	14+960	14+980	15+000	15+020	15+040	15+060	15+080	15+100	15+120



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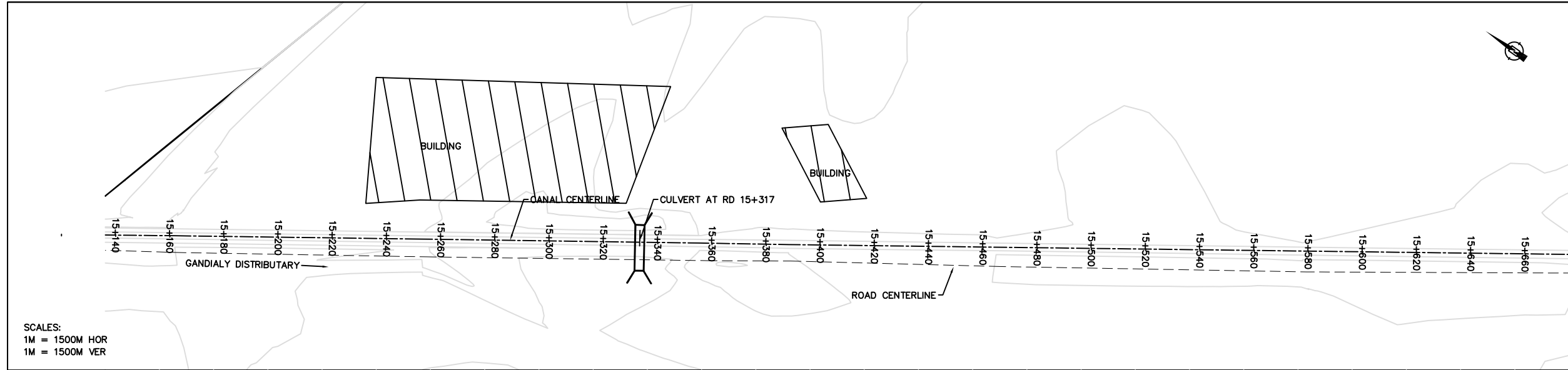
PROJECT:  
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TITLE:  
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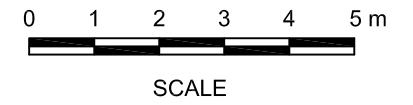
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

500.0																												
480.0																												
460.0																												
440.0																												
420.0																												
SLOPE %	0.06												0.05															
VELOCITY (m/s)	1.04												0.97															
BED WIDTH (m)	1.04												1.04															
DISCHARGE CUMEC	1.616												1.616															
REMARKS	DE-SILTING & PROPOSED WALL ON R/S OF CHANNEL																											
F.S.L	471.48	471.47	471.46	471.45	471.43	471.42	471.41	471.40	471.39	471.38	471.37	471.36	471.35	471.32	471.29	471.26	471.23	471.20	471.17	471.14	471.11	471.08	471.05	471.02	470.99	470.96	470.93	470.90
BED LEVEL	470.55	470.54	470.53	470.52	470.51	470.49	470.48	470.47	470.46	470.44	470.43	470.42	470.41	470.40	470.39	470.38	470.37	470.36	470.35	470.34	470.33	470.32	470.31	470.30	470.29	470.28	470.27	470.26
SILTED BED	470.70	470.70	470.69	470.69	470.68	470.68	470.68	470.68	470.67	470.67	470.67	470.65	470.54	470.53	470.56	470.57	470.56	470.54	470.52	470.49	470.47	470.45	470.44	470.43	470.42	470.41	470.38	470.36
RD	15+120	15+140	15+160	15+180	15+200	15+220	15+240	15+260	15+280	15+300	15+320	15+340	15+360	15+380	15+400	15+420	15+440	15+460	15+480	15+500	15+520	15+540	15+560	15+580	15+600	15+620	15+640	15+660



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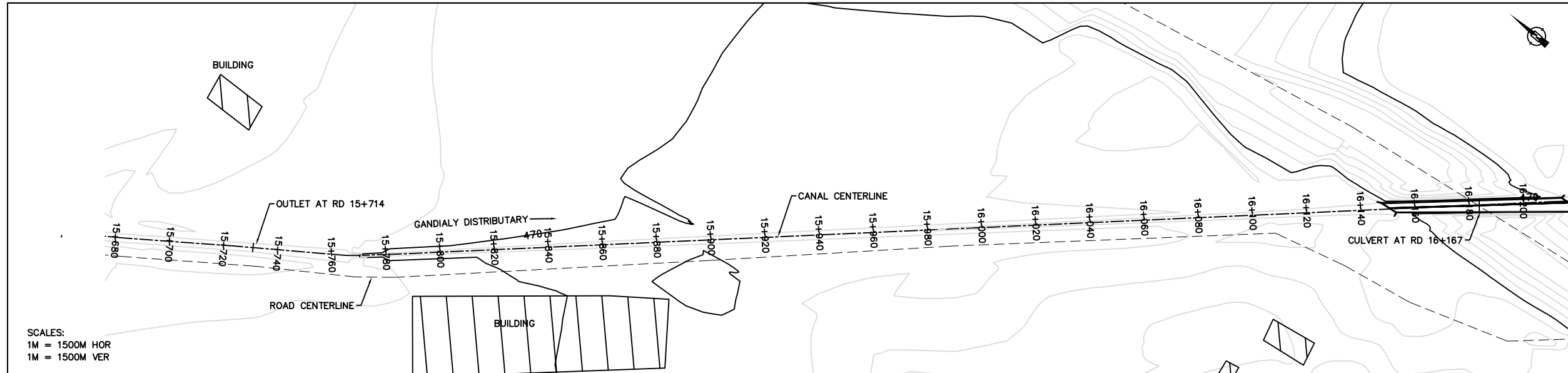
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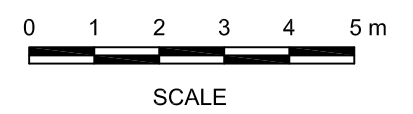
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

500.0																												
480.0																												
460.0																												
440.0																												
420.0																												
SLOPE %	0.05				0.05				0.04												0.02							
VELOCITY (m/s)	0.97				0.97				0.02												1.79							
BED WIDTH (m)	1.04				1.04				0.9												0.85							
DISCHARGE CUMEC	1.616				1.564				1.564												1.564							
REMARKS	DE-SILTING & PROPOSED WALL ON R/S								DE-SILTING,REPAIRING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																			
F.S.L	470.90	470.87	470.84	470.81	470.56	469.66	469.38	469.30	469.23	469.15	469.07	469.00	468.92	468.84	468.77	468.69	468.61	468.54	468.46	468.38	468.31	468.23	468.15	468.08	468.00	467.92	467.84	467.76
BED LEVEL	470.26	470.25	470.24	470.23	469.99	469.06	468.77	468.69	468.61	468.53	468.45	468.37	468.29	468.21	468.13	468.05	467.97	467.89	467.81	467.73	467.65	467.57	467.49	467.42	467.35	467.28	467.22	467.15
SILTED BED	470.36	470.35	470.36	470.37	470.31	468.76	468.76	468.69	468.61	468.53	468.46	468.38	468.30	468.21	468.12	468.04	467.96	467.89	467.82	467.74	467.66	467.59	467.54	467.52	467.88	467.82	467.75	467.64
RD	15+660	15+680	15+700	15+720	15+740	15+760	15+780	15+800	15+820	15+840	15+860	15+880	15+900	15+920	15+940	15+960	15+980	16+000	16+020	16+040	16+060	16+080	16+100	16+120	16+140	16+160	16+180	16+200



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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

**CAMEOS**  
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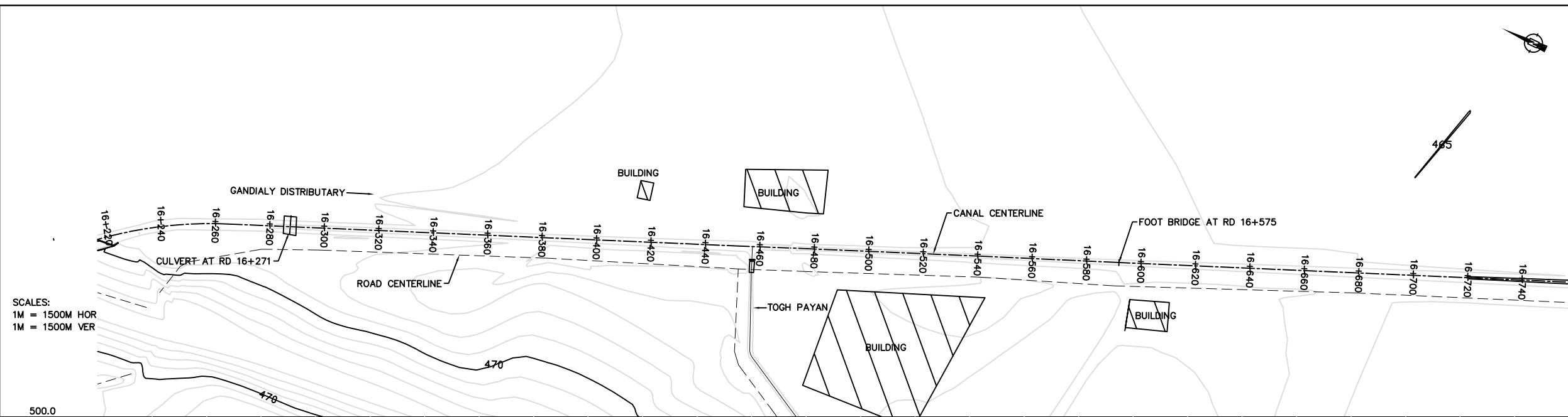
PROJECT:  
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RD	16+200	16+220	16+240	16+260	16+280	16+300	16+320	16+340	16+360	16+380	16+400	16+420	16+440	16+460	16+480	16+500	16+520	16+540	16+560	16+580	16+600	16+620	16+640	16+660	16+680	16+700	16+720	16+740
F.S.L	467.76	467.69	467.61	467.53	467.45	467.37	467.29	467.20	467.12	467.03	466.93	466.76	466.59	466.42	466.34	466.27	466.19	466.11	466.04	465.96	465.88	465.81	465.73	465.65	465.57	465.50	465.42	465.34
BED LEVEL	467.15	467.08	467.01	466.94	466.88	466.81	466.72	466.64	466.56	466.47	466.39	466.30	466.22	465.87	465.79	465.71	465.64	465.56	465.48	465.40	465.33	465.25	465.17	465.09	465.02	464.94	464.86	464.79
SILTED BED	467.64	467.19	467.18	467.05	466.89	466.81	466.72	466.65	466.56	466.47	466.39	466.33	466.30	465.95	465.89	465.84	465.77	465.69	465.60	465.53	465.45	465.37	465.29	465.21	465.12	465.02	464.92	464.83
SLOPE %	0.02			0.04			0.07			FALL STRUCTURE (RAISING OF WALL)			0.04															
VELOCITY (m/s)	1.79			1.95			1.93			FALL STRUCTURE (RAISING OF WALL)			1.91															
BED WIDTH (m)	0.85			0.85			0.85			FALL STRUCTURE (RAISING OF WALL)			0.8															
DISCHARGE CUMEC	1.564			1.564			1.564			FALL STRUCTURE (RAISING OF WALL)			1.247															
REMARKS	DE-SILTING, REPAIRING & PROPOSED WALL ON R/S OF CHANNEL																											

SCALES:  
1M = 1500M HOR  
1M = 1500M VER



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

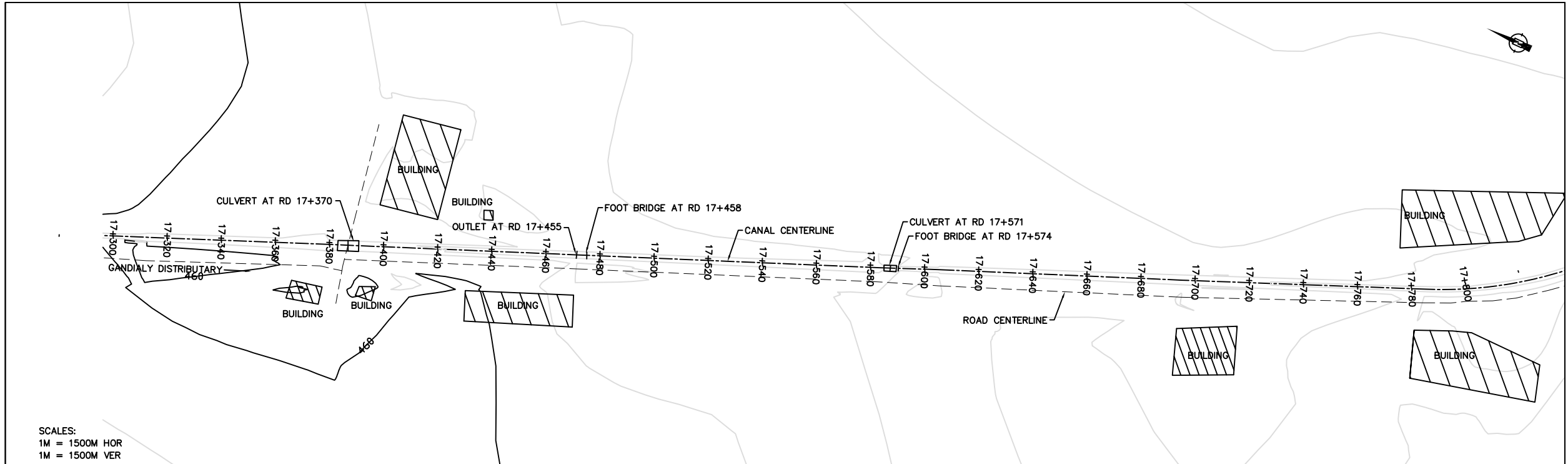
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SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-731 SHEET:- 31 OF 43 SUB SH.- ----



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SCALES:  
1M = 1500M HOR  
1M = 1500M VER




	480.0																											
	460.0																											
	440.0																											
SLOPE %	0.3					0.4					FALL STRUCTURE (RAISING OF WALL)					0.8												
VELOCITY (m/s)	1.96					1.94										1.94												
BED WIDTH (m)	0.75					0.7										0.7												
DISCHARGE CUMEC	1.247					1.247										1.247												
REMARKS	DE-SILTING,REPAIRING & PROPOSED WALL ON R/S OF CHANNEL										DE-SILTING,REPAIRING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																	
F.S.L	459.69	459.05	458.68	458.60	458.51	458.43	458.34	458.26	458.17	458.09	458.00	457.92	457.83	457.75	457.66	457.34	456.94	456.86	456.78	456.70	456.62	456.53	456.45	456.37	456.29	456.21	456.13	456.04
BED LEVEL	458.40	458.18	458.10	458.01	457.93	457.84	457.76	457.67	457.59	457.50	457.42	457.33	457.25	457.16	457.08	456.68	456.36	456.28	456.20	456.12	456.04	455.95	455.87	455.79	455.71	455.63	455.55	455.47
SILTED BED	458.62	458.67	458.48	458.31	458.17	458.10	458.03	457.94	457.84	457.74	457.61	457.48	457.35	457.23	457.11	456.47	456.49	456.39	456.31	456.23	456.16	456.06	455.96	455.86	455.76	455.66	455.56	455.56
RD	17+280	17+300	17+320	17+340	17+360	17+380	17+400	17+420	17+440	17+460	17+480	17+500	17+520	17+540	17+560	17+580	17+600	17+620	17+640	17+660	17+680	17+700	17+720	17+740	17+760	17+780	17+800	17+820



TENDER DRAWING

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

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 **ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**GANDIALY DISTRIBUTARY**

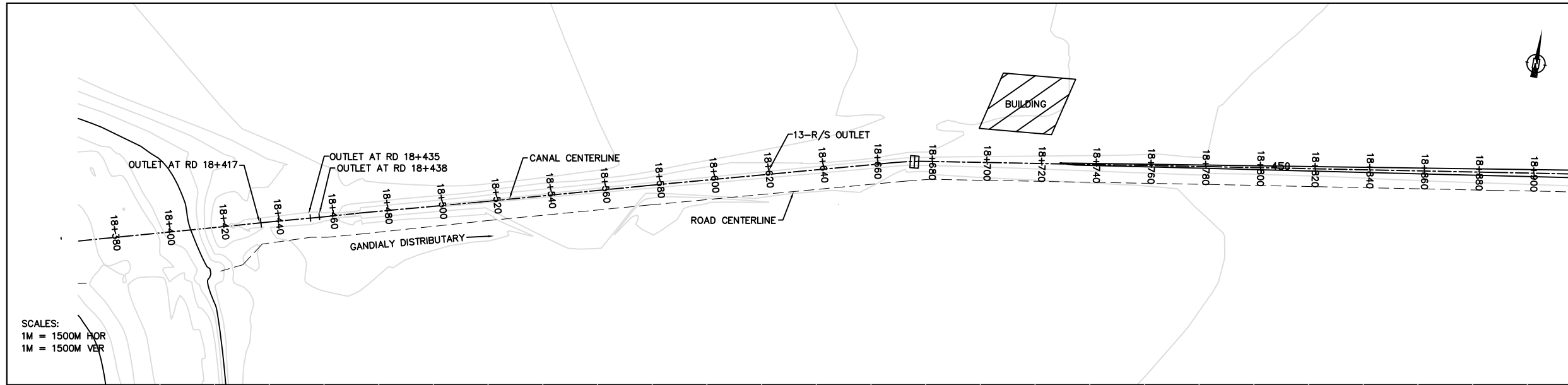
SCALE	DATE
Shown	JANUARY / 2021

DRG.No:- TND-733      SHEET:- 33 OF 43      SUB SH.- ----



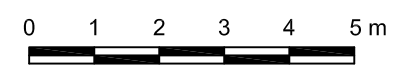


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER


480.0																																																
460.0																																																
440.0																																																
420.0																																																
400.0																																																
SLOPE %	0.02		0.02		0.0019										0.04		0.04																															
VELOCITY (m/s)	1.99		1.99		1.05										1.95		1.95																															
BED WIDTH (m)	0.72		0.72		2										0.6		0.6																															
DISCHARGE CUMEC	1.179		1.179		1.179										1.79		1.133																															
REMARKS	DE-SILTING, REPAIRING & PROPOSED WALL ON BOTH SIDES OF CHANNEL																																															
F.S.L	452.71		452.32		451.92		451.52		451.44		451.36		451.27		451.19		451.11		451.03		450.94		450.86		450.78		450.69		450.61		450.53		450.44		450.36		450.28		450.20		450.11		450.03		449.95		449.86	
BED LEVEL	452.07		451.08		451.00		450.91		450.83		450.74		450.65		450.57		450.48		450.40		450.31		450.23		450.14		450.05		449.97		449.88		449.80		449.71		449.63		449.54		449.45		449.37		449.28		449.20	
SILTED BED	448.40	453.23	452.15	452.14	451.17	451.04	451.00	451.03	450.80	450.76	450.65	450.54	450.44	450.32	450.21	450.13	450.05	449.97	449.89	449.81	449.74	449.66	449.58	449.49	449.41	449.33	449.25																					
RD	18+380	18+400	18+420	18+440	18+460	18+480	18+500	18+520	18+540	18+560	18+580	18+600	18+620	18+640	18+660	18+680	18+700	18+720	18+740	18+760	18+780	18+800	18+820	18+840	18+860	18+880	18+900																					






SCALE

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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
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DRG.No:- TND-735      SHEET:- 35 OF 43      SUB SH.- ----

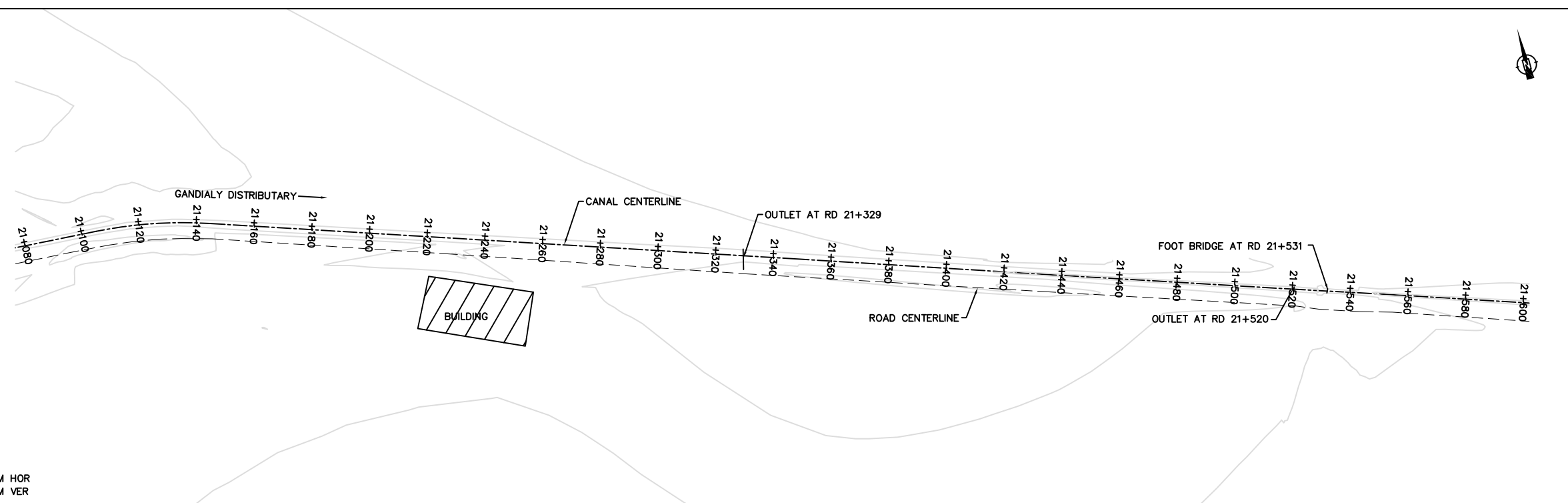






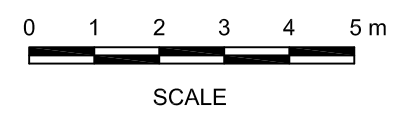


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER




460.0																												
440.0																												
430.0																												
SLOPE %	0.02										0.06					0.06		0.05										
VELOCITY (m/s)	1.31										1.8					1.8		1.82										
BED WIDTH (m)	0.8										0.75					0.75		0.75										
DISCHARGE CUMEC	1.057										1.057					0.966		0.966										
REMARKS	DE-SILTING, REPAIRING & PROPOSED WALLS ON BOTH SIDES OF CHANNEL																											
F.S.L	443.16	443.11	443.07	443.02	442.97	442.92	442.87	442.82	442.77	442.72	442.68	442.63	442.58	442.53	442.48	442.43	442.38	442.33	442.29	442.25	442.20	442.16	442.12	442.07	441.38	441.80	441.67	441.53
BED LEVEL	442.63	442.58	442.54	442.49	442.44	442.40	442.35	442.31	442.26	442.21	442.17	442.12	442.07	442.03	441.98	441.94	441.89	441.84	441.80	441.75	441.70	441.66	441.61	441.56	441.28	441.11	440.99	440.87
SILTED BED	442.68	442.64	442.59	442.59	442.55	442.52	442.44	442.37	442.33	442.30	442.27	442.26	442.24	442.22	442.19	442.15	442.10	442.06	442.00	441.96	441.97	441.96	441.95	441.94	441.28	441.11	441.00	440.87
RD	21+080	21+080	21+100	21+120	21+140	21+160	21+180	21+200	21+220	21+240	21+260	21+280	21+300	21+320	21+340	21+360	21+380	21+400	21+420	21+440	21+460	21+480	21+500	21+520	21+540	21+560	21+580	21+600



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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 GANDIALY DISTRIBUTARY**

SCALE	DATE
Shown	JANUARY / 2021

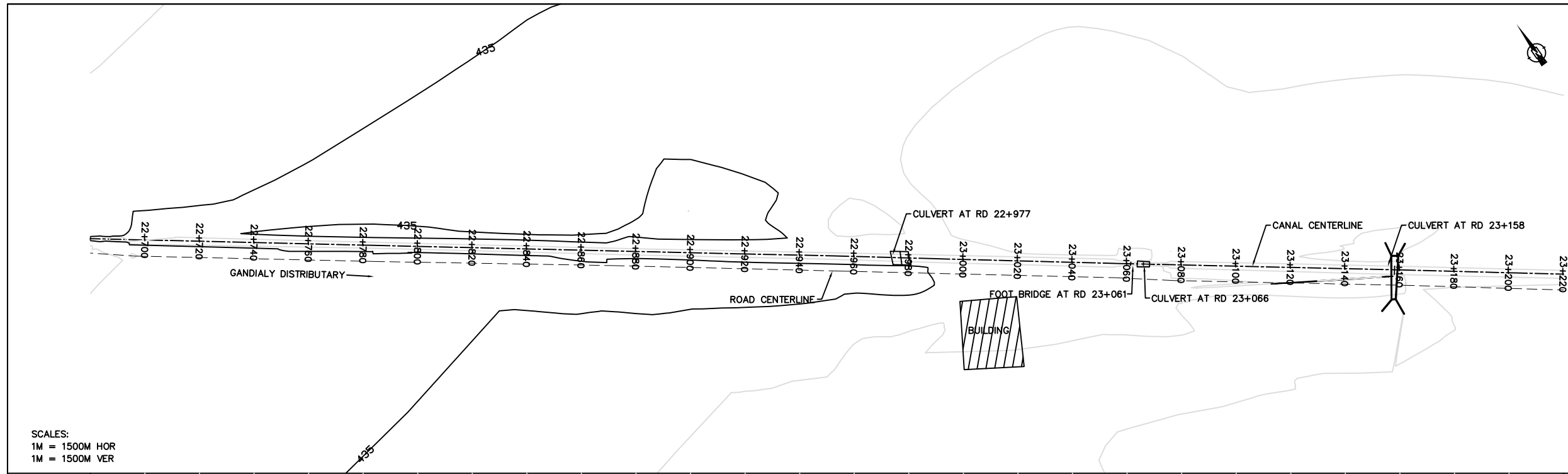
DRG.No:- TND-740      SHEET:- 40 OF 43      SUB SH.- ----





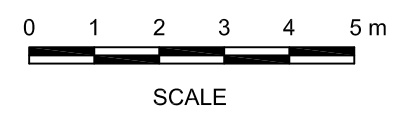


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

RD	SLOPE 1:1.73										SLOPE 1:0.11										SLOPE 1:2.0									
	22+680	22+700	22+720	22+740	22+760	22+780	22+800	22+820	22+840	22+860	22+880	22+900	22+920	22+940	22+960	22+980	23+000	23+020	23+040	23+060	23+080	23+100	23+120	23+140	23+160	23+180	23+200	23+220		
F.S.L	435.11	434.83	434.56	434.33	434.30	434.26	434.22	434.18	434.15	434.11	434.07	434.03	434.00	433.96	433.92	433.88	433.85	433.81	433.77	433.73	433.69	433.65	433.61	433.57	433.53	433.49	433.45	433.41		
BED LEVEL	434.62	433.66	433.64	433.62	433.60	433.58	433.55	433.53	433.51	433.49	433.47	433.44	433.42	433.40	433.38	433.35	433.33	433.31	433.29	433.20	432.38	432.35	432.33	432.31	432.29	432.27	432.24	432.22		
SILTED BED	434.64	434.00	433.92	433.84	433.76	433.87	433.62	433.69	433.66	433.64	433.62	433.59	433.56	433.54	433.52	433.52	433.51	433.50	433.47	433.43	432.63	432.58	432.53	432.49	432.54	432.50	432.46	432.42		



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KHYBER PAKHTUNKHWA

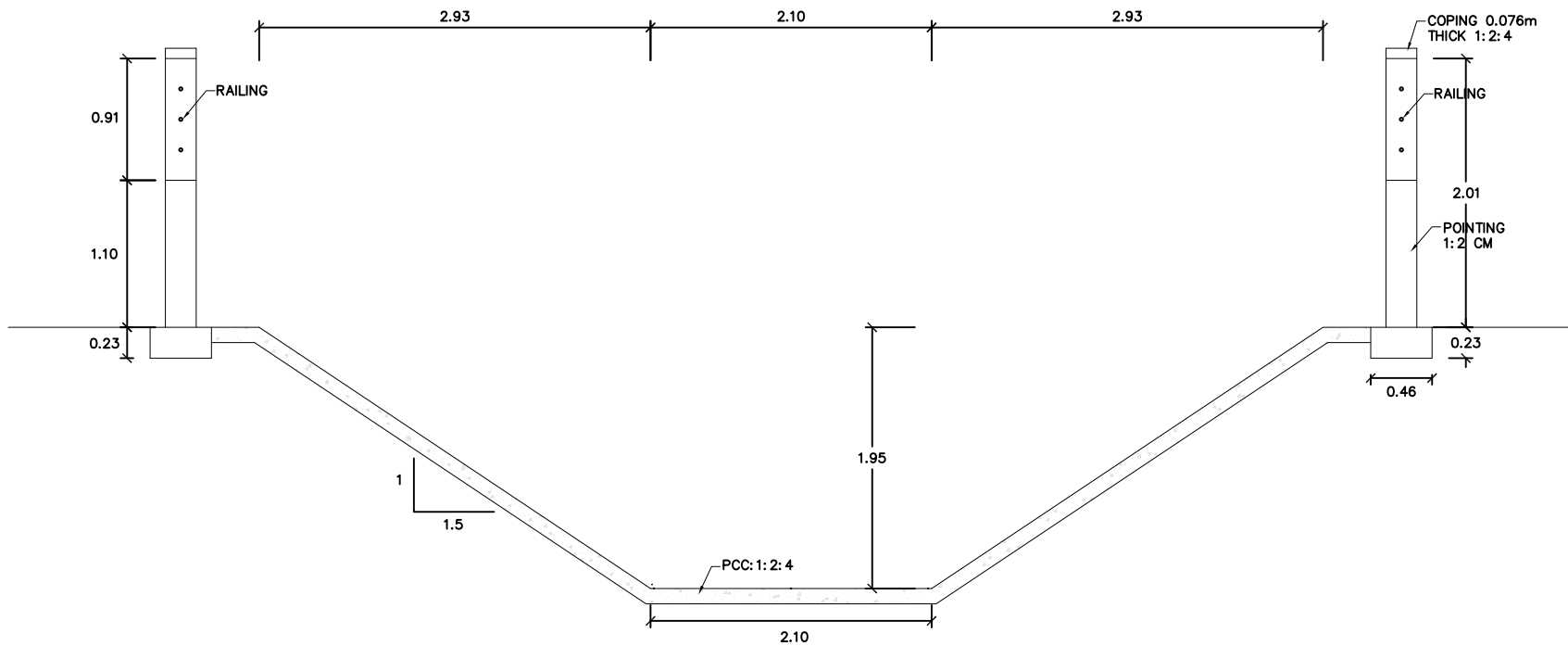
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

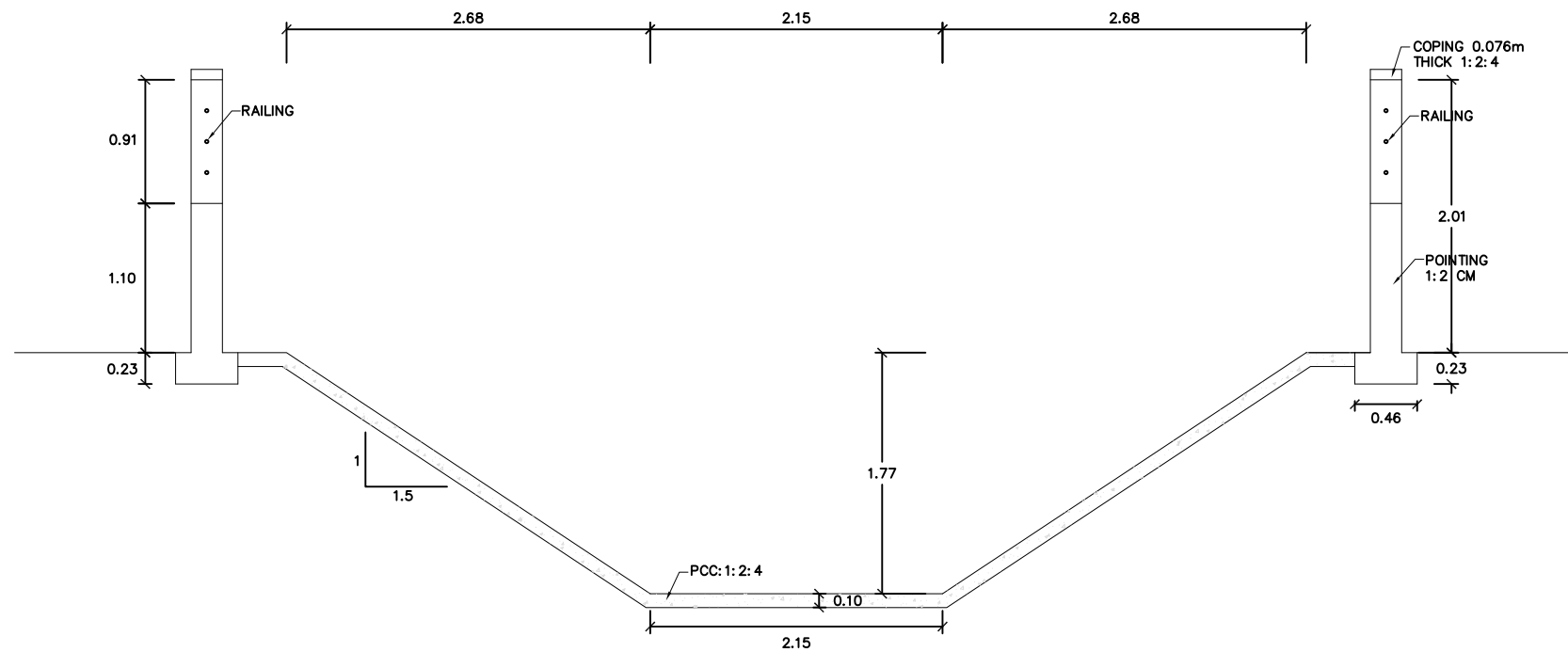
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PLAN & PROFILE OF TANDA DAM  
GANDIALY DISTRIBUTARY

SCALE	DATE
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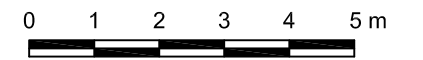
DRG.No:- TND-743 SHEET:- 43 OF 43 SUB SH.- ----



TYPICAL CROSS SECTION AT RD 4465 TO 5351  
PROPOSED RELINING OF CHANNEL & SIDE WALLS




TYPICAL CROSS SECTION AT RD 5370 TO 5900  
PROPOSED RELINING OF CHANNEL & SIDE WALLS






SCALE

TENDER DRAWING

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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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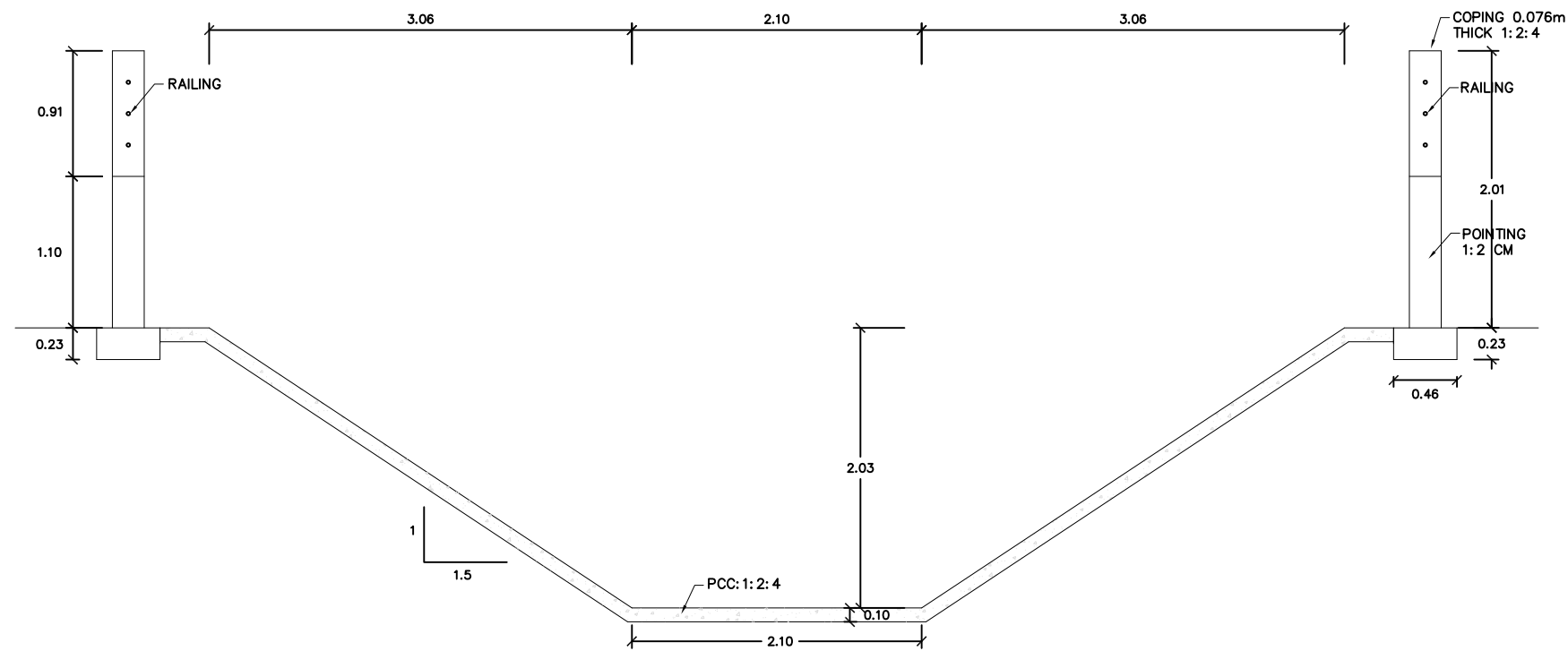
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PROPOSED CROSS  
 SECTIONS OF MAIN CANAL**

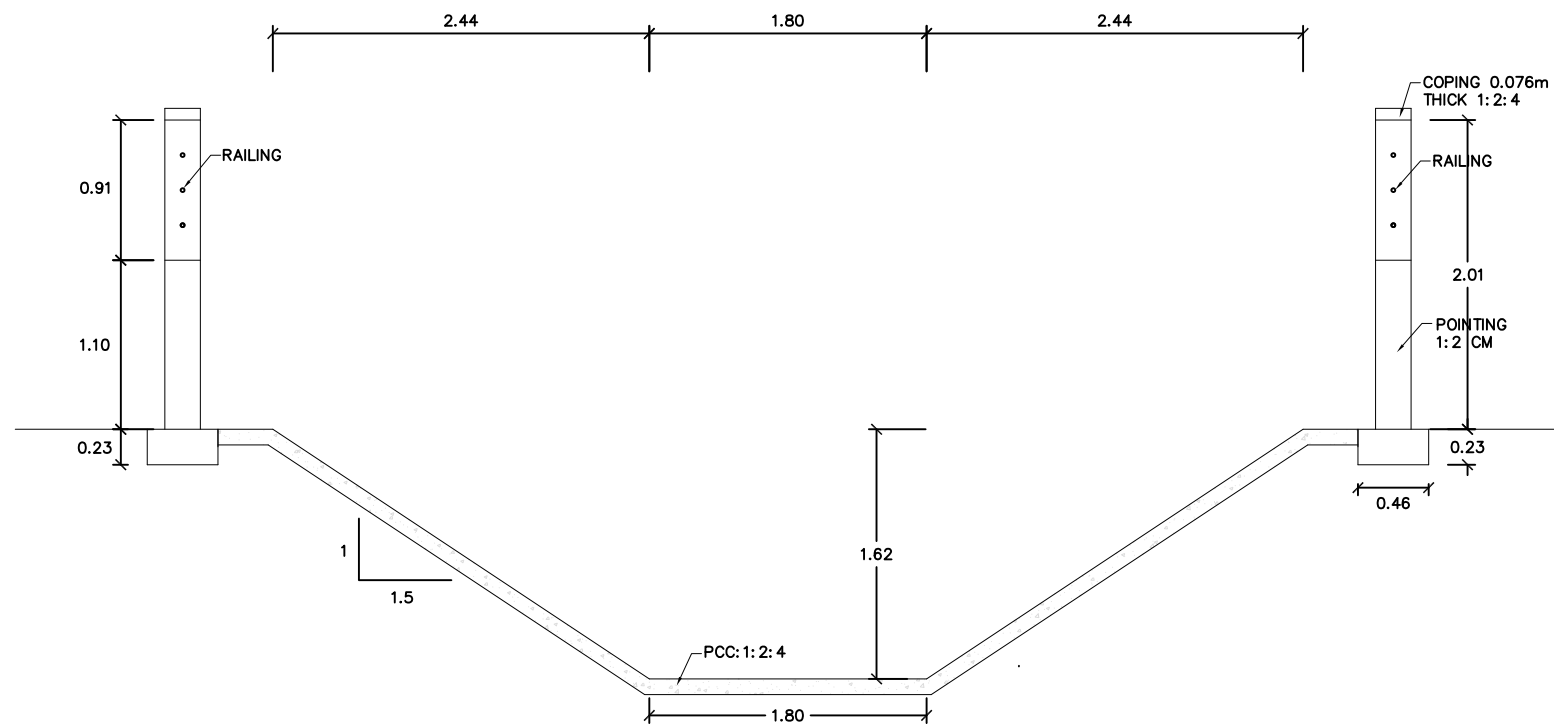
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TYPICAL CROSS SECTION AT RD 5916 TO 6425  
PROPOSED RELINING OF CHANNEL & SIDE WALLS







TYPICAL CROSS SECTION AT RD 6445 TO 7565  
PROPOSED RELINING OF CHANNEL & SIDE WALLS



TENDER DRAWING

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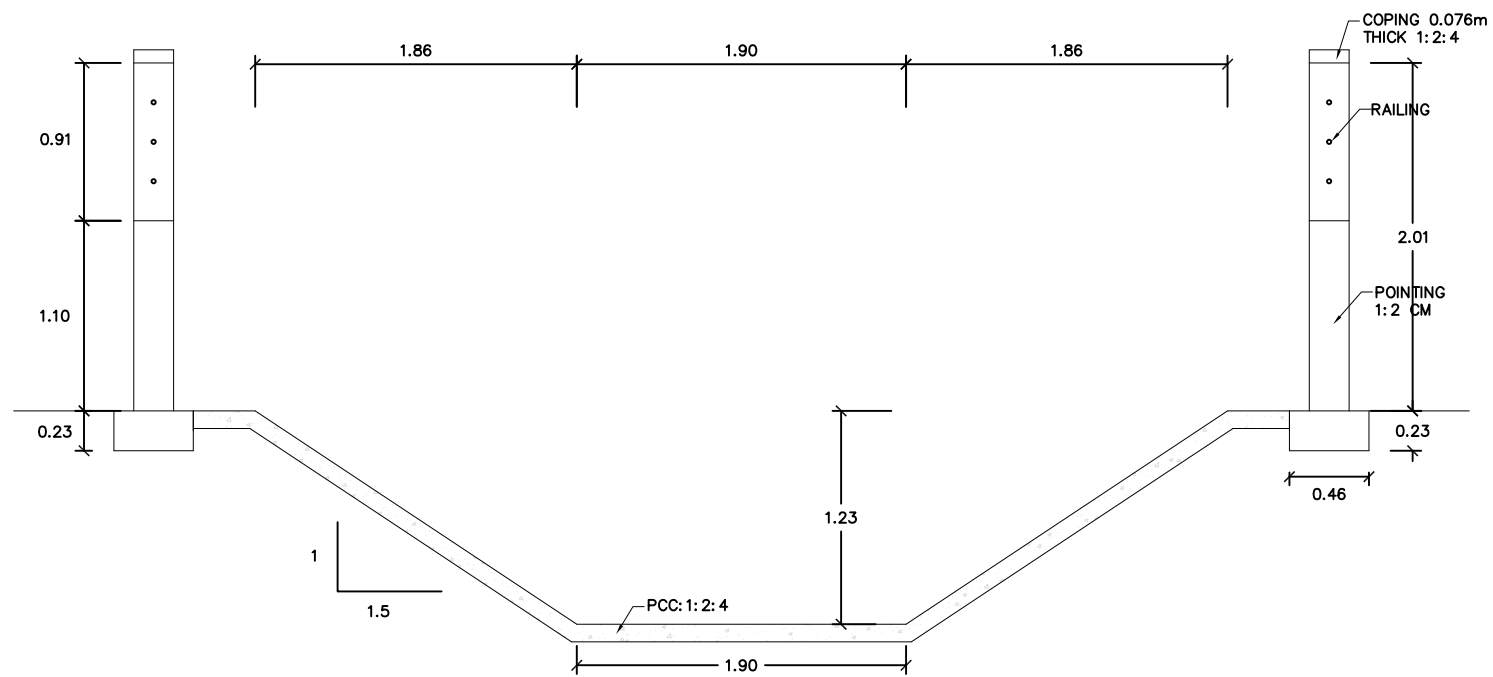
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PROJECT:  
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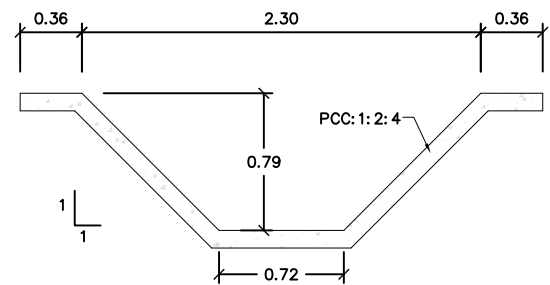
TITLE:  
**PROPOSED CROSS SECTION OF MAIN CANAL**

SCALE	DATE
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DRG.No:- TND-745	SHEET:- 1 OF 03
SUB SH.-	

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TYPICAL CROSS SECTION AT RD 7586 TO 9131  
PROPOSED RELINING OF CHANNEL & SIDE WALLS





TYPICAL CROSS SECTION AT RD 18240 TO 18305  
PROPOSED RELINING OF CHANNEL



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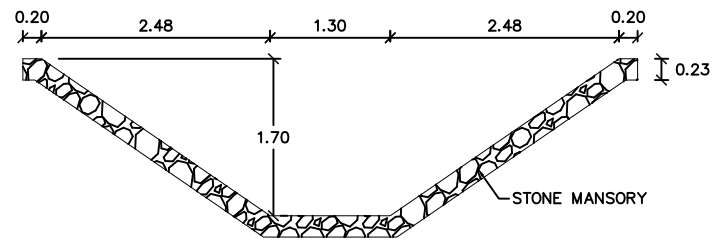
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

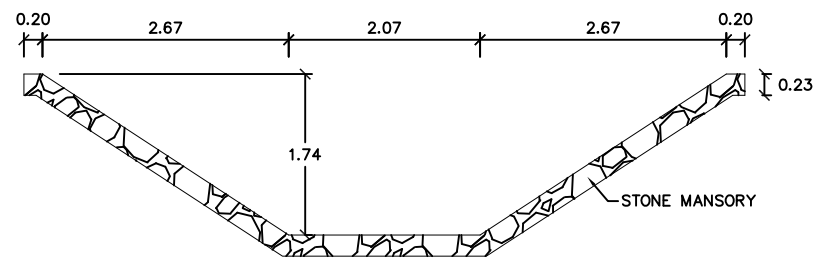
TITLE:  
**PROPOSED CROSS SECTION OF MAIN CANAL**

SCALE	DATE
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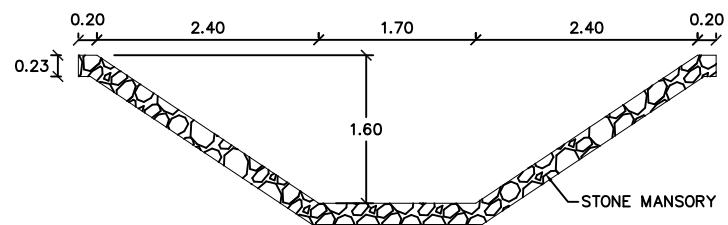
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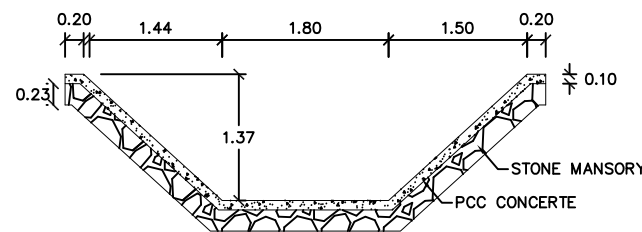
AT RD 0+035 (EXISTING SEC)



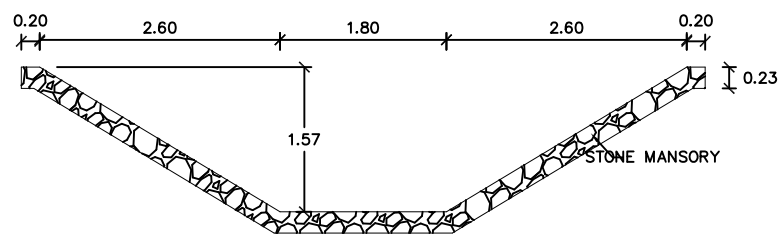
AT RD 6+415 (EXISTING SEC)



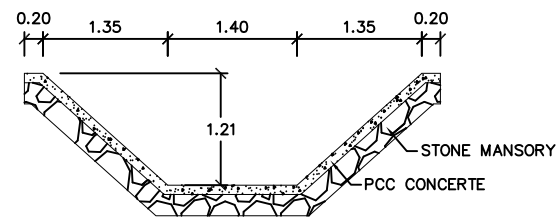
AT RD 0+573 (EXISTING SEC)



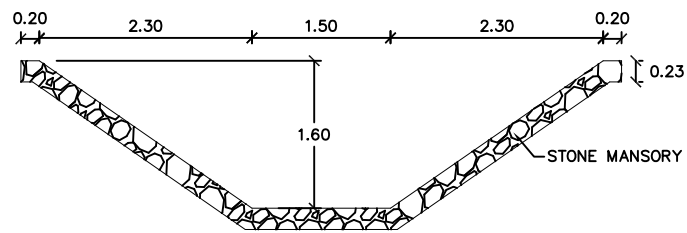
AT RD 6+450 (EXISTING SEC)



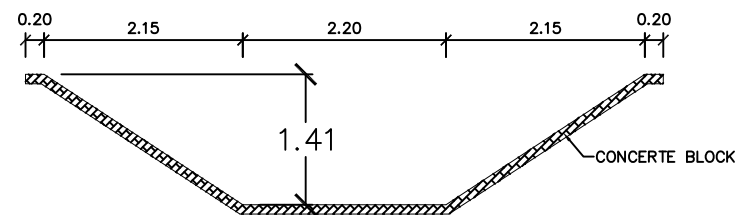
AT RD 3+053 (EXISTING SEC)



AT RD 9+115 (EXISTING SEC)



AT RD 4+450 (EXISTING SEC)







AT RD 9+228 (EXISTING SEC)



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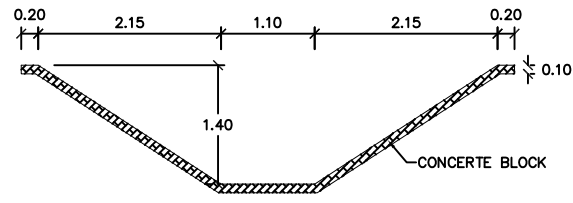
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PROPOSED CROSS SECTION OF MAIN CANAL**

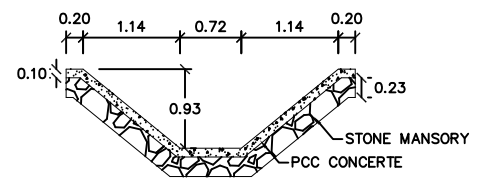
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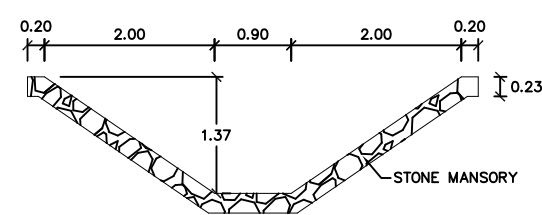
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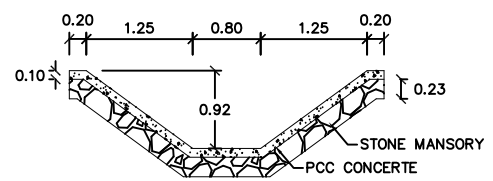
AT RD 15+750 (EXISTING SEC)



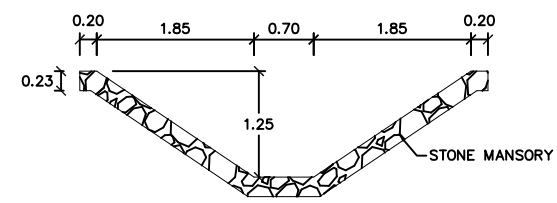
AT RD 18+418 TO 20+495 (TYPICAL SEC) PROPOSED DAMAGED STONE WORK TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1400m) BED WIDTH VARIES



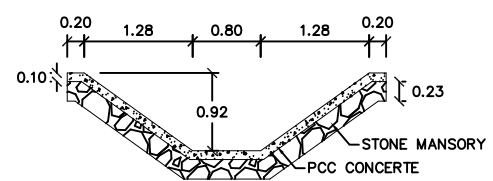
AT RD 15+765 TO 17+900 (TYPICAL SEC) PROPOSED DAMAGED STONE WORK TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1500m) BED WIDTH VARIES



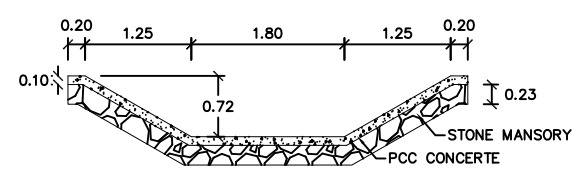
AT RD 20+495 (EXISTING SEC)



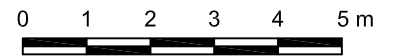
AT RD 17+900 (TYPICAL SECTION)



AT RD 20+496 TO 23+400 (TYPICAL SEC) PROPOSED DAMAGED STONE WORK TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1270m) BED WIDTH VARIES



RD FROM 18+239 TO 18+305 ANTI SLOPE (EXISTING SEC) TO BE DISMANTLED REPLACED WITH GIVEN SECTION AT RD 17+900



SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

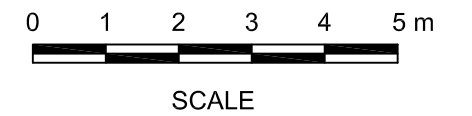
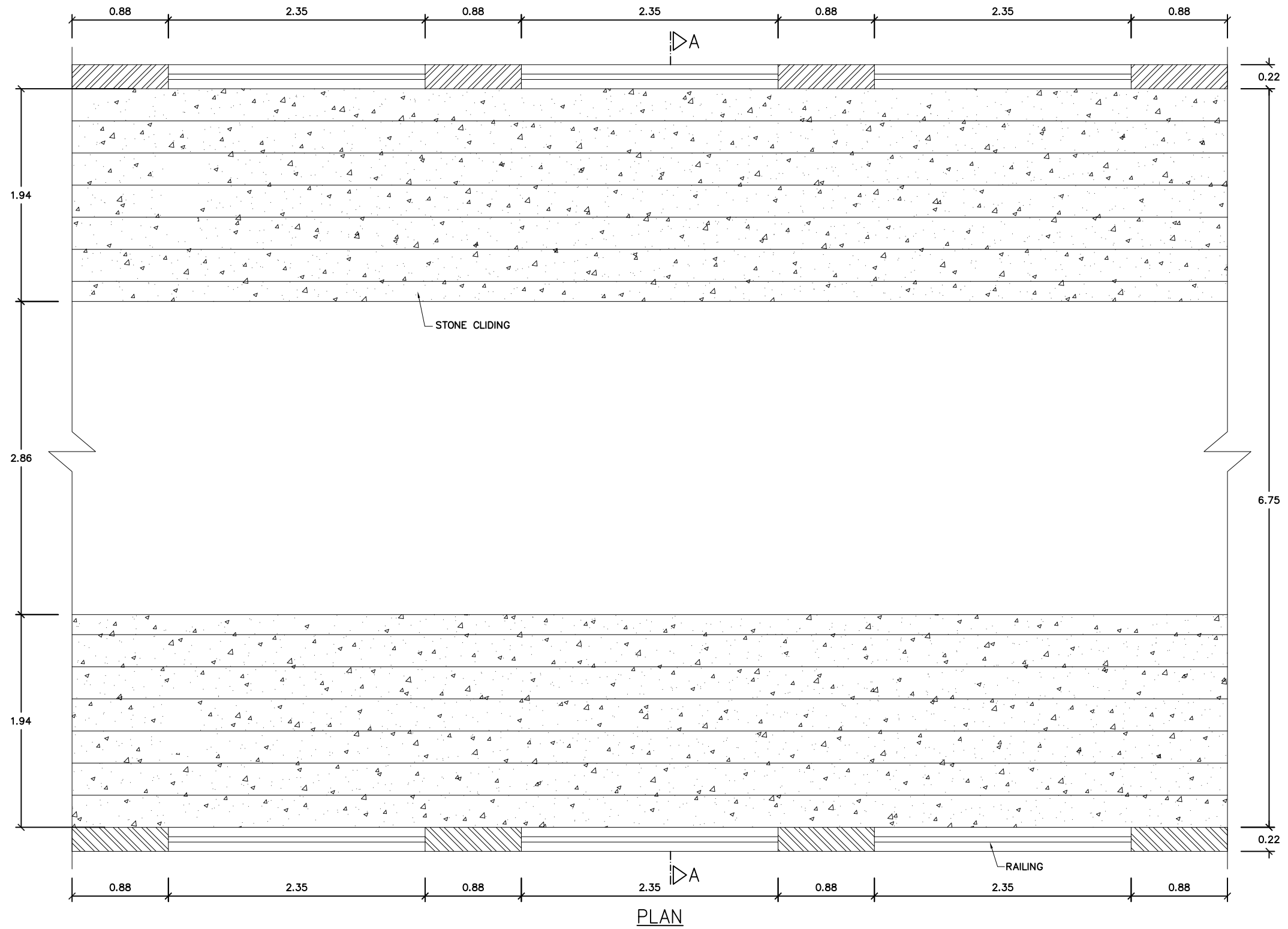
REVISED & UPDATED FOR TENDER BY: A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: EXISTING CROSS SECTION OF MAIN CANAL


DRG.No:-	TND-748	SHEET:-	2 OF 02	SCALE	DATE
				Shown	JANUARY / 2021
				SUB SH.-	----




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TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT.) LTD.  
 CASCADE GROUP OF  
 ENGINEERING & CONSULTANTS  
 ETA  
 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

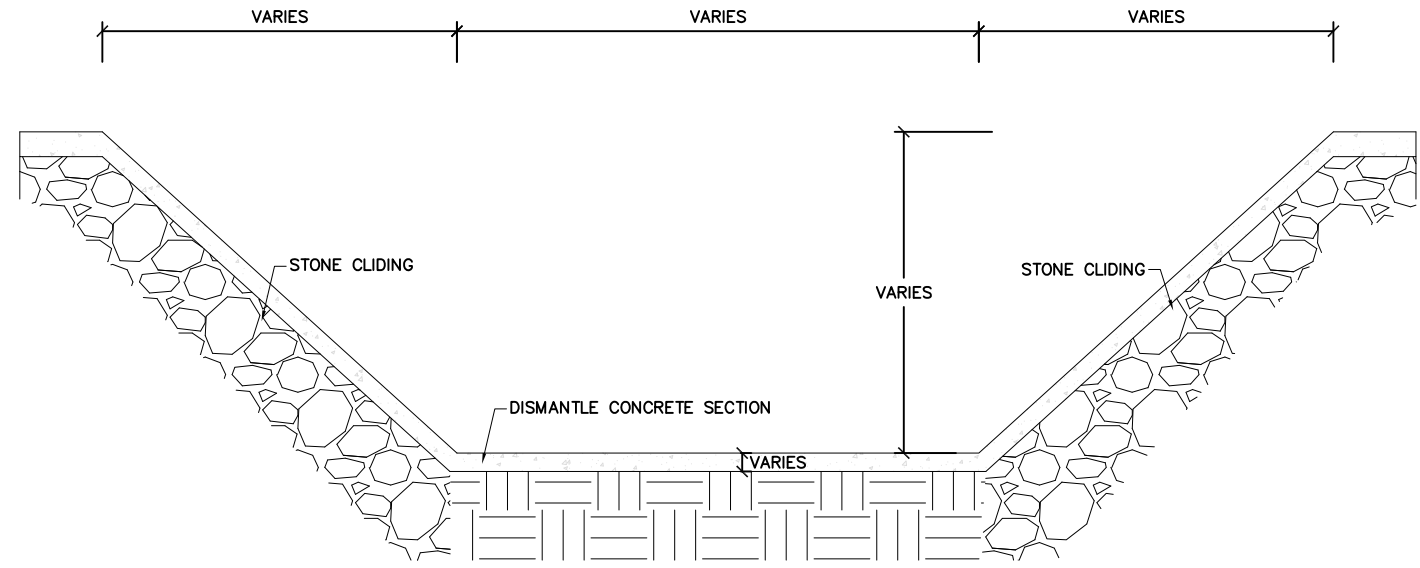
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN OF MAIN CANAL  
 WALL**

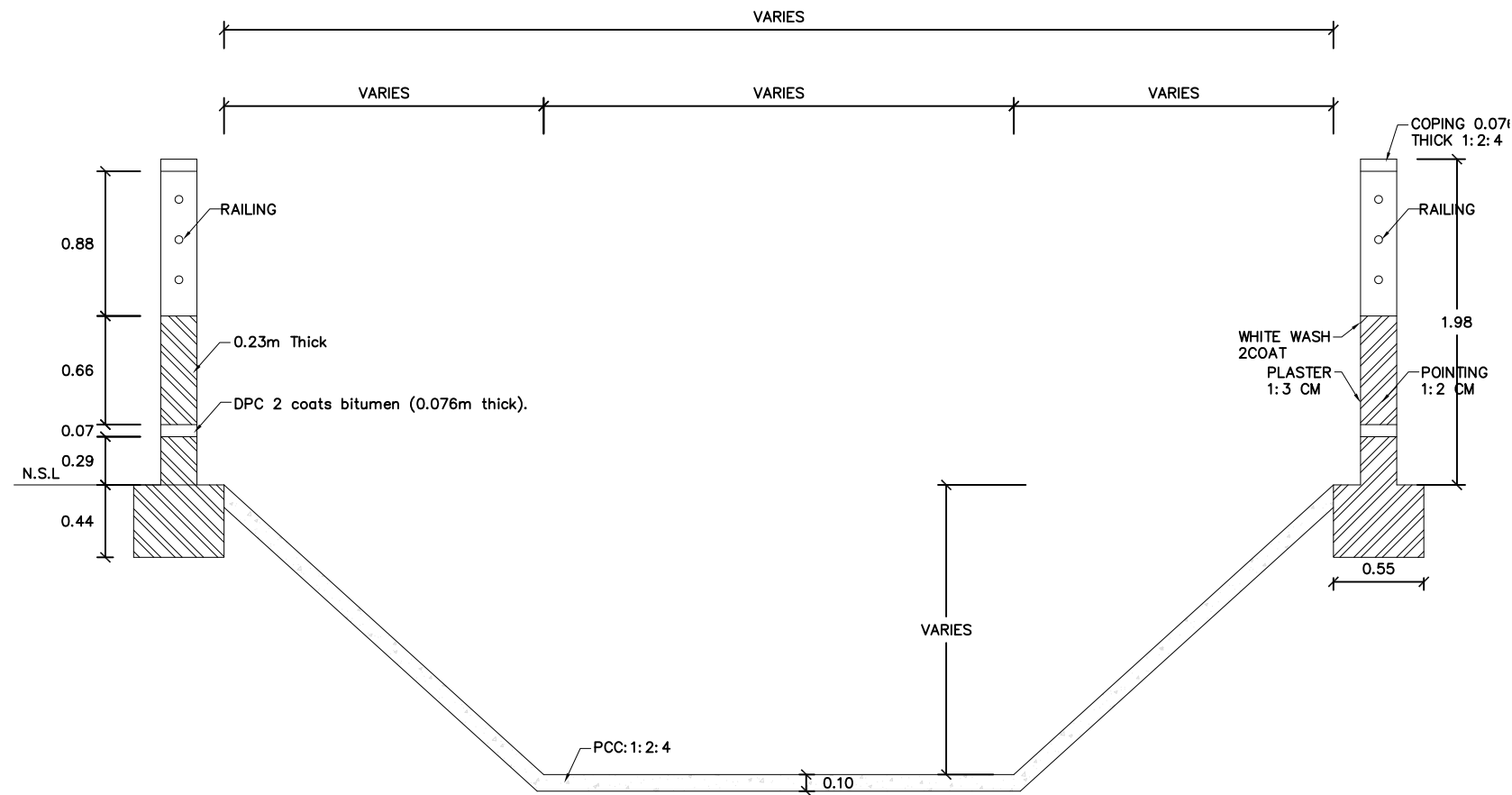
SCALE	DATE
Shown	JANUARY 2011

DRG.No:- TND-749	SHEET:- 1 OF 03	SUB SH.-
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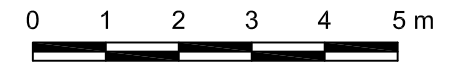
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EXISTING SECTION A-A




PROPOSED SECTION A-A






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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 ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

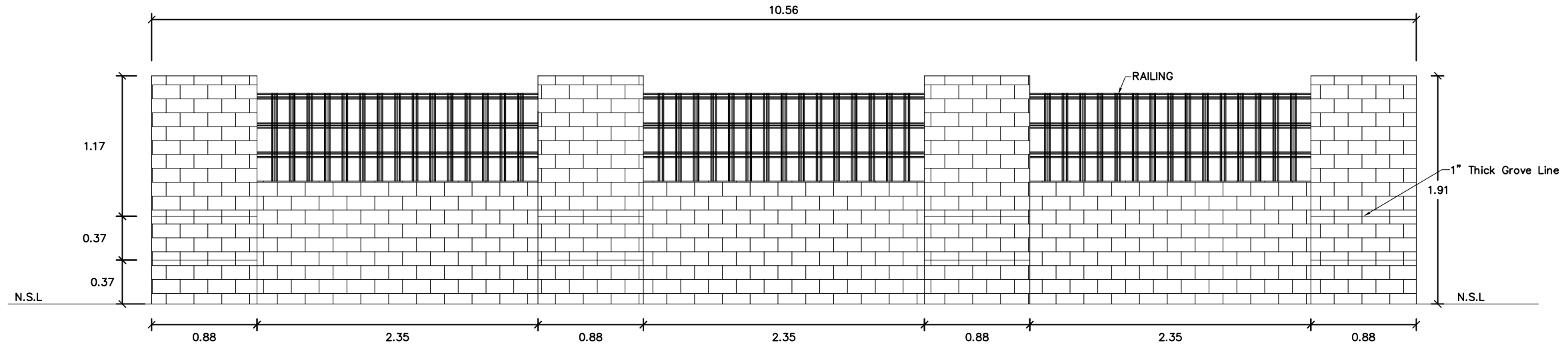
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**EXISTING SECTION A-A &  
 PROPOSED SECTION A-A**

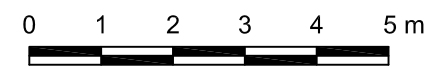
DRG.No:- TND-750	SHEET:- 2 OF 03	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	---



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FRONT ELEVATION






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS

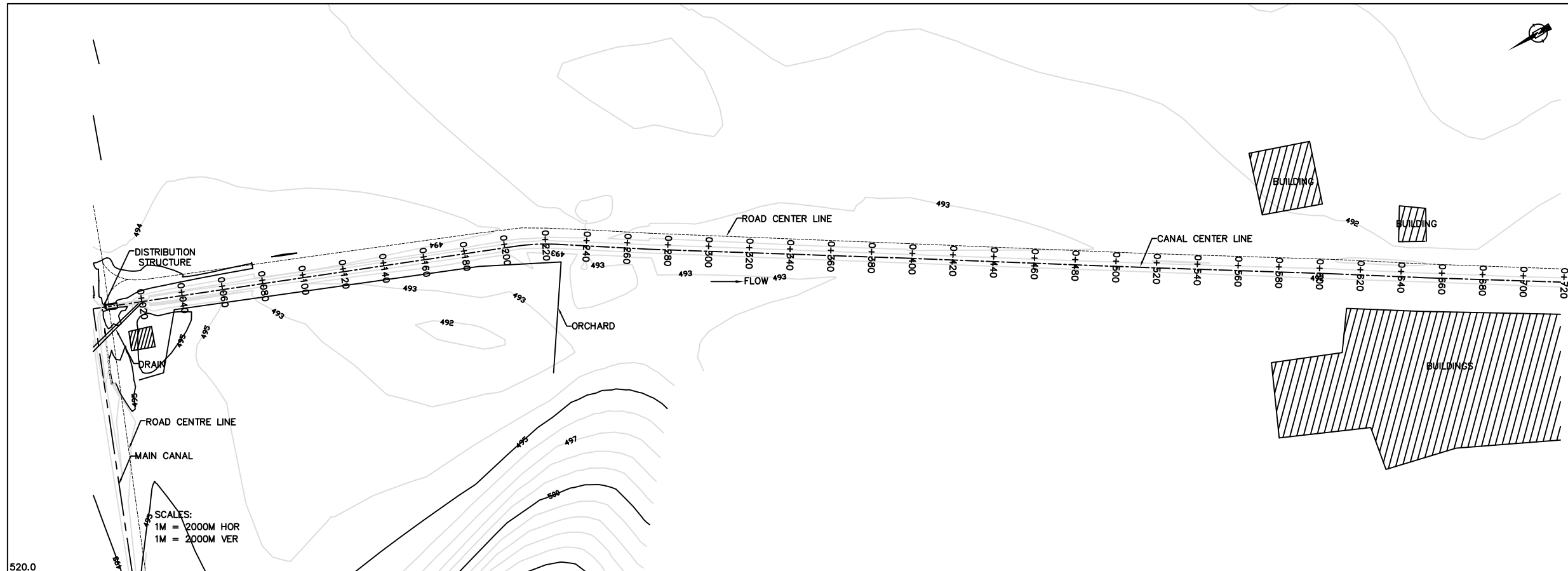
IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

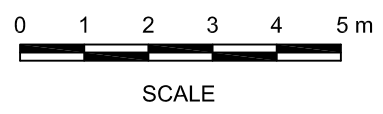
TITLE:  
**FRONT ELEVATION**

DRG.No:- TND-751	SHEET:- 3 OF 03	SUB SH.-	SCALE	DATE
			Shown	JANUARY / 2021

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RD	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720				
F.S.L	493.61	492.08	492.08	492.08	492.07	492.07	492.07	492.07	492.06	492.06	492.06	492.06	492.05	492.05	492.05	492.05	492.04	492.04	492.04	492.03	492.03	492.02	492.02	492.01	492.01	492.01	492.00	492.00	492.00	491.99	491.99	491.99	491.98	491.98	491.97	491.97	491.96	491.96			
BED LEVEL	492.83	491.19	491.32	491.32	491.31	491.31	491.30	491.30	491.29	491.29	491.29	491.29	491.29	491.29	491.29	491.28	491.28	491.28	491.28	491.28	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	491.27	
SILTED BED	492.84	491.19	491.46	491.45	491.49	491.48	491.47	491.46	491.44	491.42	491.49	491.55	491.57	491.44	491.44	491.47	491.50	491.52	491.50	491.47	491.44	491.45	491.45	491.47	491.50	491.54	491.56	491.56	491.45	491.38	491.31	491.27	491.27	491.28	491.28	491.28	491.28	491.28	491.28	491.28	491.28
REMARKS	DESILTING & REPAIRING																		DESILTING & REPAIRING																						
DISCHARGE CUMEC	1.06358																		1.06358																						
SLOPE %	0.02																		0.01																						
VELOCITY (m/s)	0.53																		0.46																						
BED WIDTH (m)	1.50																		1.67																						



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

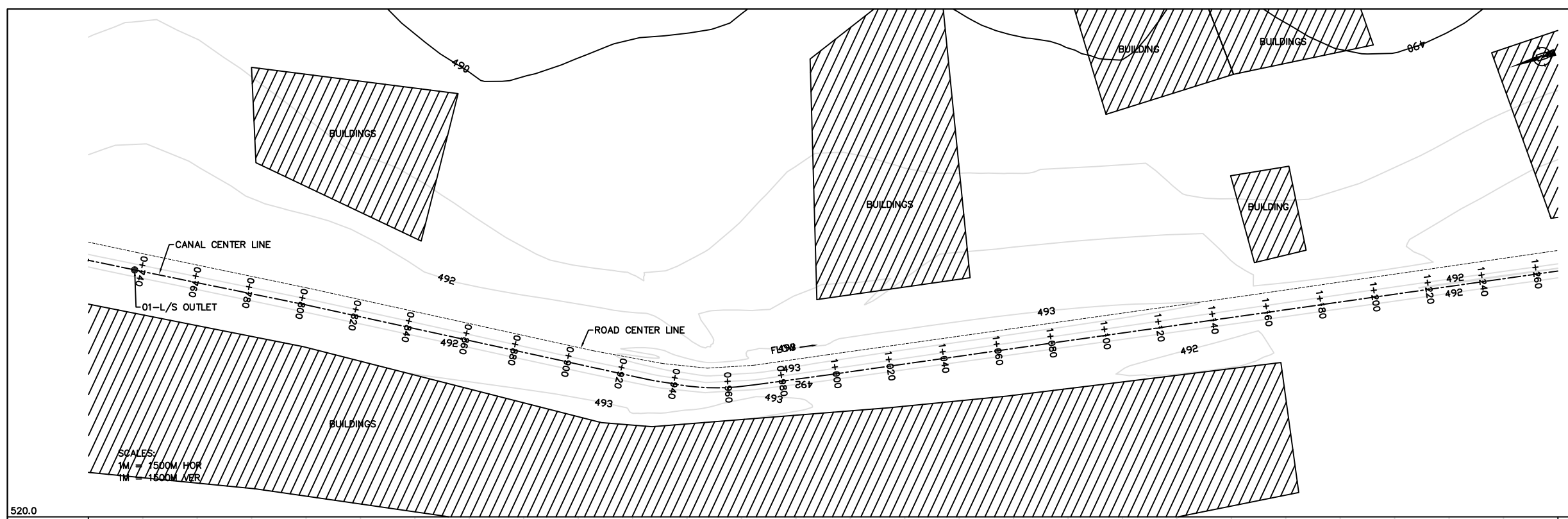
REVISED & UPDATED FOR TENDER BY:  
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**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
**CASCADE GROUP OF ENGINEERS & CONSULTANTS**  
**ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

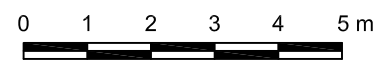
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**SULEMAN BRANCH**

DRG.No:- TND-801	SHEET:- 1 OF 09	SCALE	DATE
		Shown	JANUARY / 2021
		SUB SH.-	----

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RD	DESILTING & REPAIRING										DESILTING & REPAIRING																	
	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260
F.S.L	491.96	491.96	491.95	491.95	491.94	491.94	491.94	491.93	491.93	491.92	491.92	491.91	491.91	491.90	491.89	491.89	491.88	491.87	491.87	491.86	491.86	491.85	491.84	491.84	491.83	491.82	491.82	491.81
BED LEVEL	491.27	491.27	491.26	491.26	491.26	491.26	491.26	491.26	491.26	491.26	491.26	491.26	491.25	491.25	491.24	491.23	491.22	491.21	491.20	491.18	491.17	491.16	491.15	491.14	491.13	491.12	491.11	
SILTED BED	491.28	491.29	491.28	491.28	491.29	491.29	491.29	491.29	491.3	491.3	491.3	491.43	491.52	491.46	491.38	491.34	491.30	491.25	491.21	491.21	491.18	491.16	491.15	491.14	491.13	491.12	491.11	



SCALE  
**TENDER DRAWING**

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
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**CASCADE** CASCADE GROUP OF ENGINEERING & CONSULTANTS  
**ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

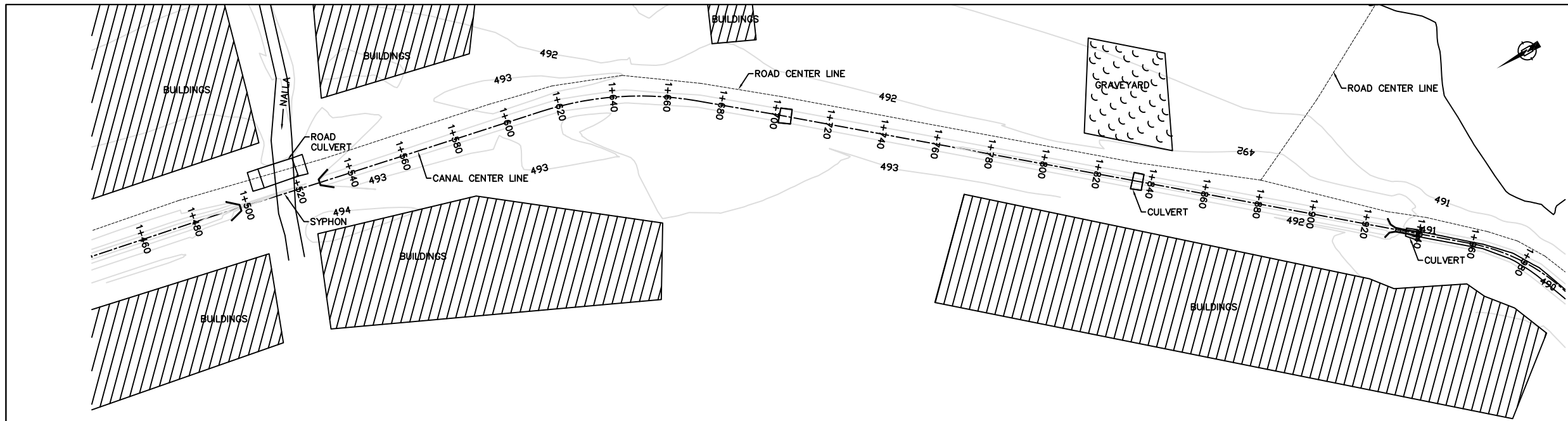
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
SULEMAN BRANCH**

SCALE	DATE
Shown	JANUARY 2021

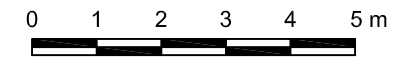
DRG.No:- TND-802 SHEET:- 2 OF 09 SUB SH.- ----

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

500.0																													
480.0																													
460.0																													
SLOPE %	0.05										0.06										0.053								
VELOCITY (m/s)	0.57										0.69										1.55								
BED WIDTH (m)	1.8										1.90										1.80								
DISCHARGE CUMEC	0.989841										0.989841										0.989841								
REMARKS	DESILTING & REPAIRING										DESILTING & REPAIRING										FALL STRUCTURE (REPAIRING)								
F.S.L	491.76	491.75	491.74			491.72	491.71	491.68	491.66	491.63	491.60	491.58	491.55	491.53	491.50	491.47	491.45	491.42	491.39	491.37	491.34	491.32	491.29	491.26	491.24	491.36	490.66	490.49	
BED LEVEL	491.01	491.00	490.99	491.14	491.10	491.15	491.14	491.18	491.20	491.14	491.11	491.10	491.09	491.08	491.07	491.06	491.03	491.02	491.01	491.00	490.99	490.98	490.96	490.95	490.94	490.94	489.80	489.78	
SILTED BED	491.02	491.00	490.93	491.14	491.10	491.15	491.14	491.18	491.20	491.14	491.11	491.10	491.09	491.08	491.07	491.06	491.03	491.02	491.01	491.00	490.99	490.98	490.97	490.96	490.95	490.94	490.94	489.78	489.78
RD	1+440	1+460	1+480	1+500	1+520	1+540	1+560	1+580	1+600	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

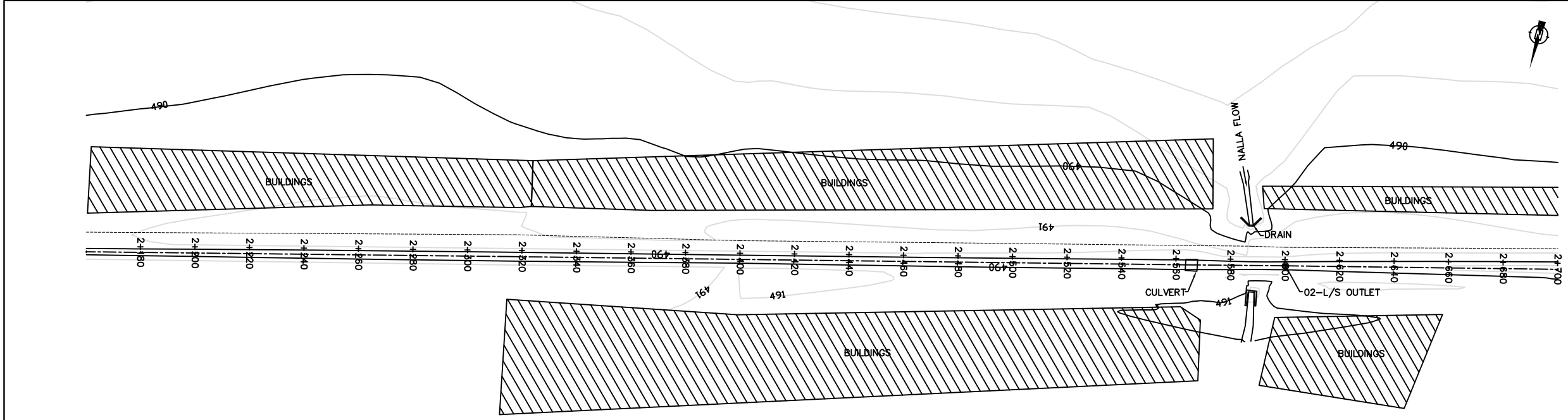
FS CONSULTANTS: **CAMEOS** RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS IN ASSOCIATION WITH: **ENGINEERS & TECHNICAL ASSOCIATES**

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: EXISTING SECTION A-A & PROPOSED SECTION A-A

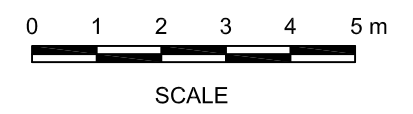
DRG.No:- TND-803	SHEET:- 03 OF 09	SUB SH:-	SCALE	DATE
			Shown	JANUARY 2021

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SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER

	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700			
F.S.L	490.36	490.34	490.33	490.31	490.30	490.29	490.27	490.26	490.24	490.23	490.21	490.20	490.18	490.17	490.15	490.14	490.12	490.11	490.09	490.08	490.06	490.05	490.03	490.02	490.00	489.99	489.97	489.96		
BED LEVEL	489.71	489.69	489.68	489.67	489.66	489.65	489.64	489.63	489.62	489.61	489.60	489.59	489.58	489.57	489.56	489.55	489.55	489.54	489.53	489.52	489.51	489.50	489.49	489.48	489.47	489.46	489.45	489.44		
SILTED BED	489.71	489.69	489.68	489.67	489.66	489.65	489.64	489.63	489.62	489.61	489.60	489.59	489.58	489.57	489.56	489.55	489.55	489.54	489.53	489.52	489.51	489.50	489.49	489.48	489.47	489.46	489.45	489.44		
RD	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540	2+560	2+580	2+600	2+620	2+640	2+660	2+680	2+700		
SLOPE %																0.05														
VELOCITY (m/s)																0.57														
BED WIDTH (m)																1.5														
DISCHARGE CUMEC																0.989841										0.903489				
REMARKS	DESILTING & REPAIRING																													



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

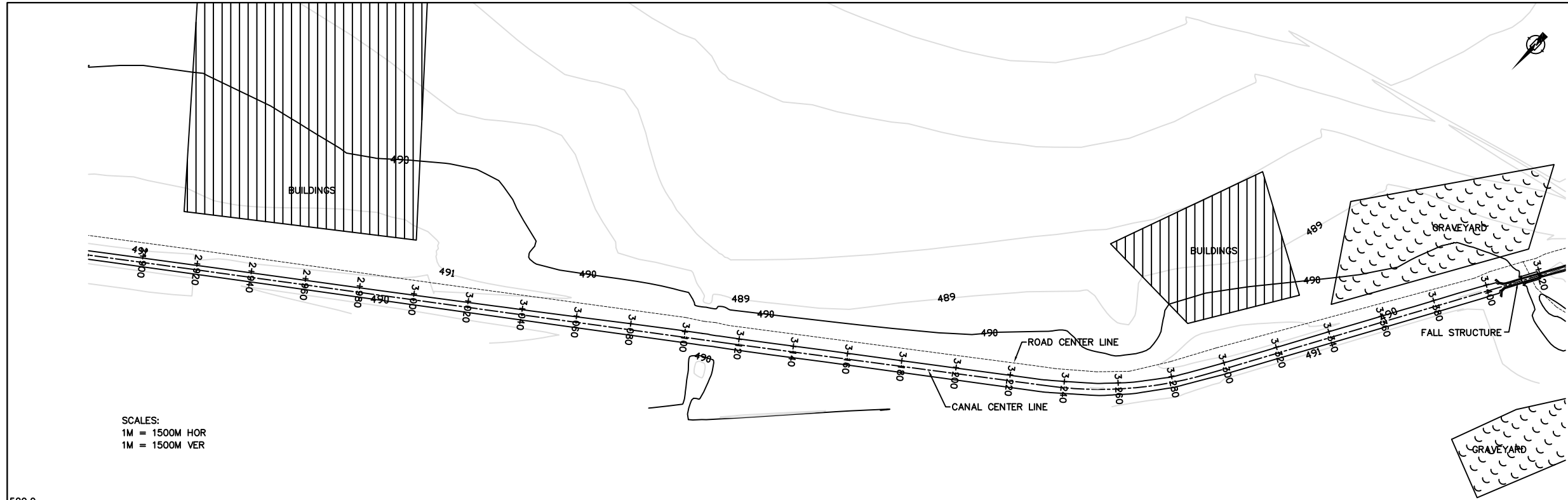
FS CONSULTANTS:  
**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
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**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
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 ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH:  
**ENRFA** ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

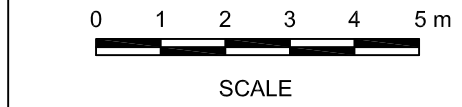
TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 SULEMAN BRANCH**

DRG.No:- TND-804	SHEET:- 04 OF 09	SUB SH.-	SCALE Shown	DATE JANUARY 2021
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SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER

RD	2+880	2+900	2+920	2+940	2+960	2+980	3+000	3+020	3+040	3+060	3+080	3+100	3+120	3+140	3+160	3+180	3+200	3+220	3+240	3+260	3+280	3+300	3+320	3+340	3+360	3+380	3+400	3+420
F.S.L	489.83	489.81	489.80	489.78	489.77	489.75	489.74	489.72	489.71	489.69	489.68	489.66	489.65	489.63	489.62	489.60	489.59	489.57	489.56	489.54	489.53	489.51	489.50	489.48	489.47	489.45	489.44	488.70
BED LEVEL	489.36	489.35	489.34	489.33	489.32	489.31	489.30	489.29	489.28	489.27	489.26	489.25	489.24	489.23	489.22	489.21	489.21	489.20	489.19	489.18	489.17	489.16	489.15	489.14	489.13	489.12	489.11	488.37
SILTED BED	489.49	489.46	489.44	489.41	489.38	489.35	489.32	489.30	489.28	489.25	489.22	489.19	489.22	489.21	489.20	489.19	489.18	489.17	489.16	489.13	489.16	489.27	489.22	489.17	489.12	489.08	489.11	488.37
NSL																												
BED LEVEL																												
FSL																												
SLOPE %	0.05																											
VELOCITY (m/s)	0.57																											
BED WIDTH (m)	1.50																											
DISCHARGE CUMEC	0.903489																											
REMARKS	DESILTING & REPAIRING																											



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

<p>FS CONSULTANTS:</p>	<p>REVISED &amp; UPDATED FOR TENDER BY:</p> <p>A Joint Venture of:</p> <p><b>RHC</b>          REHMAN HABIB CONSULTANTS (PVT) LTD.</p> <p>CASCADE GROUP OF          ENGINEERING &amp; CONSULTANTS</p> <p>IN ASSOCIATION WITH:          ENGINEERING &amp; TECHNICAL ASSOCIATES</p>
------------------------	--

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

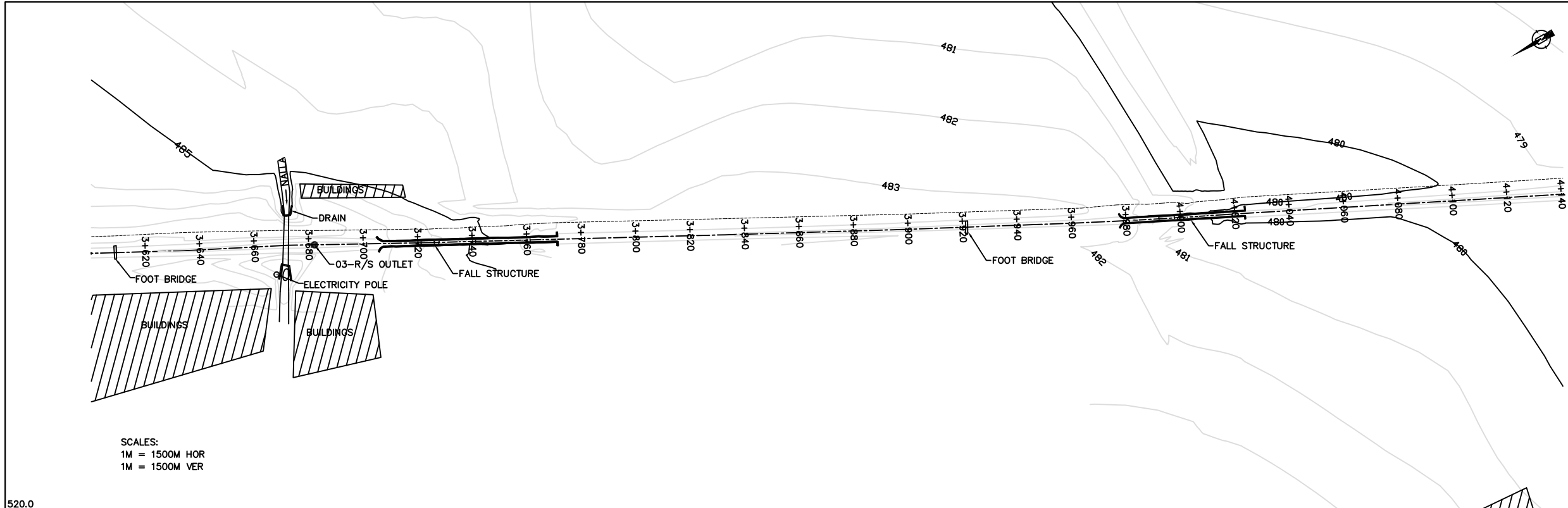
TITLE:

**PLAN & PROFILE OF TANDA DAM**  
**SULEMAN CANAL**

DRG.No:- TND-805	SHEET:- 05 OF 09	SUB SH.-
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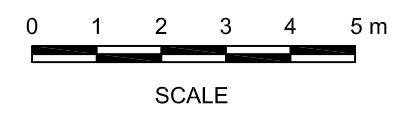
SCALE	DATE
Shown	JANUARY 2021

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

	520.0																											
	500.0																											
	480.0																											
	460.0																											
	NSL																											
	FSL																											
	BED LEVEL																											
SLOPE %	0.018															0.34					0.58							
VELOCITY (m/s)	0.57															1.50					1.72							
BED WIDTH (m)	0.8					FALL STRUCTURE (REPAIRING & RAISING OF WALL)										0.70					0.80							
DISCHARGE CUMEC	0.903489					0.822596										0.822596					0.822596							
REMARKS	DESILTING & REPAIRING					DESILTING & REPAIRING										DESILTING & REPAIRING					DESILTING & REPAIRING							
F.S.L	486.78	486.73	486.68	486.64	486.59	486.55	485.50	483.73	482.71	482.73	482.66	482.58	482.51	482.43	482.36	482.28	482.20	482.13	482.05	481.11	480.19	478.24	478.74	478.62	478.51	478.39	478.27	478.15
BED LEVEL	486.29	486.26	486.22	486.19	486.15	486.11	485.00	483.22	482.22	482.25	482.18	482.11	482.04	481.97	481.91	481.84	481.77	481.70	481.63	481.69	479.75	477.81	478.31	478.19	478.08	477.96	477.85	477.73
SILTED BED	486.29	486.26	486.22	486.20	486.15	486.12	485.01	483.22	482.27	482.26	482.20	482.13	482.05	481.98	481.92	481.86	481.78	481.73	481.68	481.69	479.78	477.81	478.31	478.19	478.10	477.98	477.88	477.76
RD	3+600	3+620	3+640	3+660	3+680	3+700	3+720	3+740	3+760	3+780	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080	4+100	4+120	4+140



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

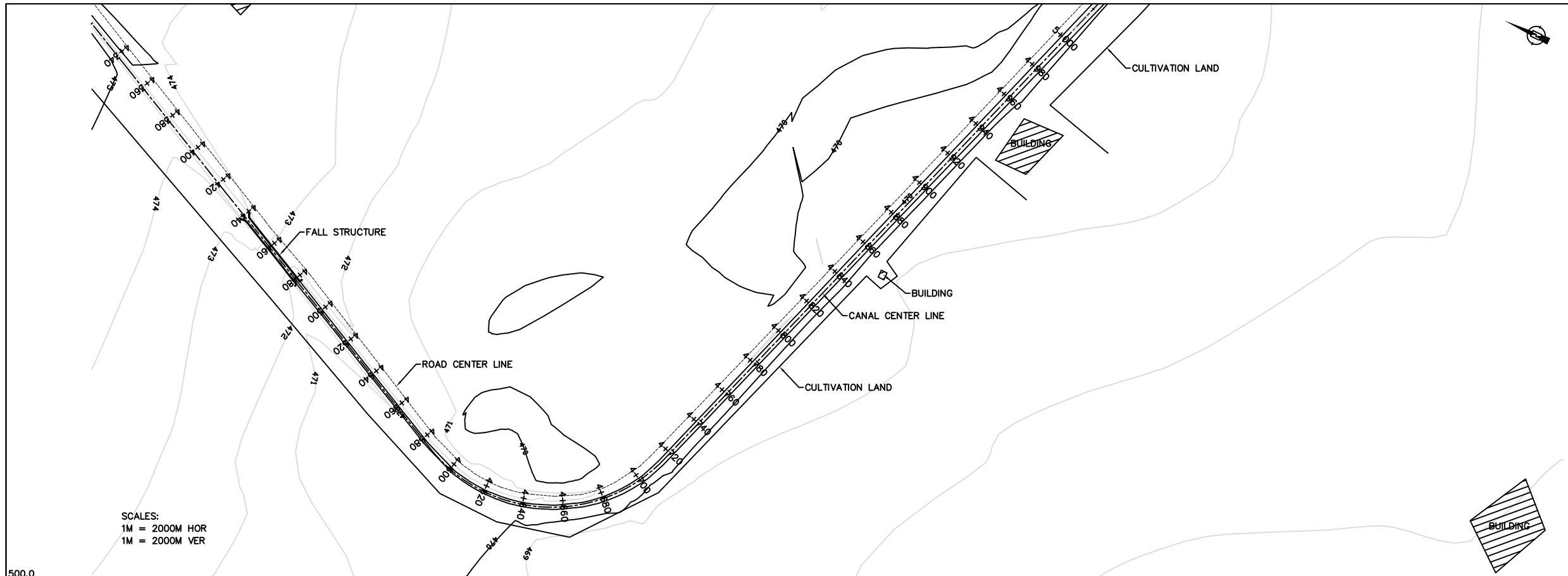
FS CONSULTANTS: **CAMEOS**  
REVIEWED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
IN ASSOCIATION WITH:  
**TECHNICAL ASSOCIATES**

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
SULMAN BRANCH

DRG.No:- TND-806	SHEET:- 06 OF 09	SUB SH.-	SCALE	DATE
			Shown	JANUARY 2021

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

RD	4+320	4+340	4+360	4+380	4+400	4+420	4+440	4+460	4+480	4+500	4+520	4+540	4+560	4+580	4+600	4+620	4+640	4+660	4+680	4+700	4+720	4+740	4+760	4+780	4+800	4+820	4+840	4+860	4+880	4+900	4+920	4+940	4+960	4+980	5+000	5+020	5+040			
F.S.L	474.09	473.99	473.89	473.78	473.68	473.57	473.47	472.35	471.12	470.42	470.38	470.34	470.30	470.26	470.22	470.18	470.14	470.10	470.06	470.02	469.98	469.94	469.90	469.86	469.82	469.78	469.74	469.70	469.66	469.62	469.58	469.54	469.50	469.46	469.42	469.38	469.34			
BED LEVEL	473.68	473.58	473.48	473.37	473.27	473.17	473.07	471.24	469.78	470.01	469.96	469.92	469.88	469.83	469.79	469.75	469.71	469.66	469.62	469.58	469.53	469.49	469.45	469.41	469.36	469.32	469.28	469.23	469.19	469.15	469.11	469.06	469.02	468.98	468.93	468.89	468.85			
SILTED BED	473.72	473.62	473.50	473.38	473.27	473.17	473.06	471.24	469.78	470.02	469.96	469.92	469.88	469.83	469.79	469.75	469.71	469.66	469.62	469.58	469.53	469.49	469.45	469.41	469.36	469.32	469.28	469.23	469.19	469.15	469.11	469.06	469.02	468.97	468.93	468.89	468.85			
REMARKS	DESILTING & REPAIRING																	FALL STRUCTURE (REPAIRING & RAISING OF WALL)												DESILTING & REPAIRING										
DISCHARGE CUMEC	0.822596																													0.822596										
VELOCITY (m/s)	1.72																													1.68										
BED WIDTH (m)	0.8																													0.9										
SLOPE %	0.5																													0.21										



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**  
REVIEWED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
IN ASSOCIATION WITH:  
**TECHNICAL ASSOCIATES**

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

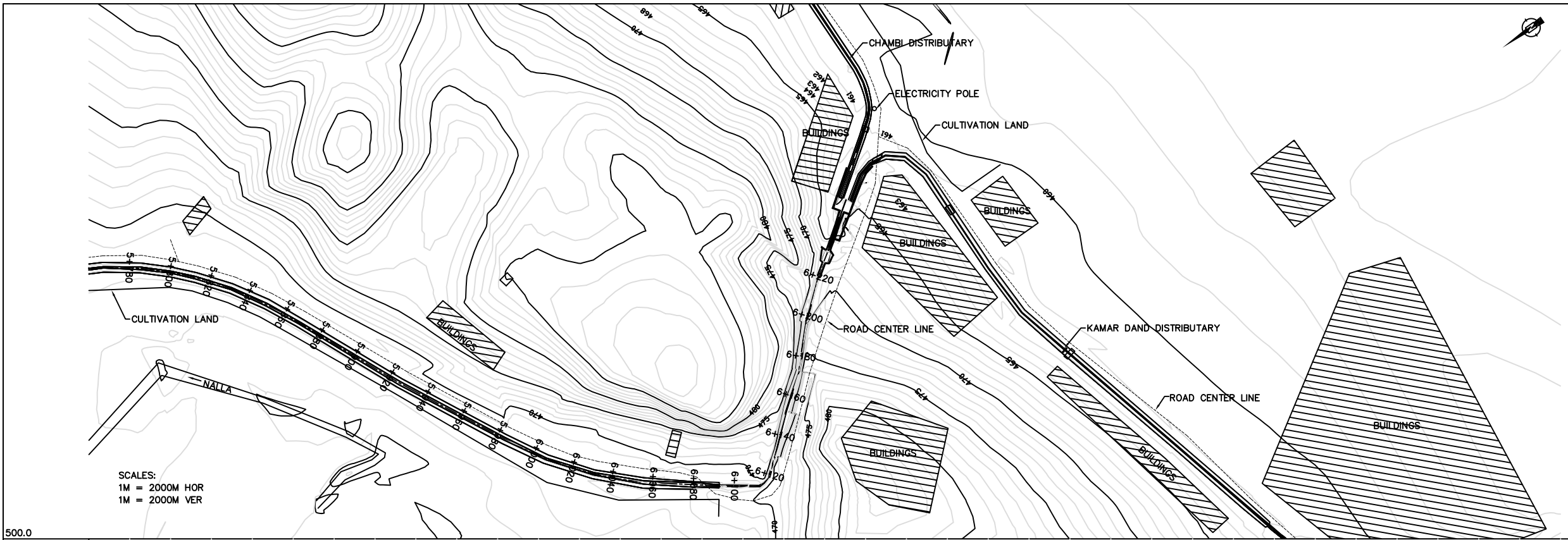
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
SULMAN BRANCH

DRG.No:- TND-807	SHEET:- 07 OF 09	SUB SH.-	SCALE	DATE
			Shown	JANUARY 2021

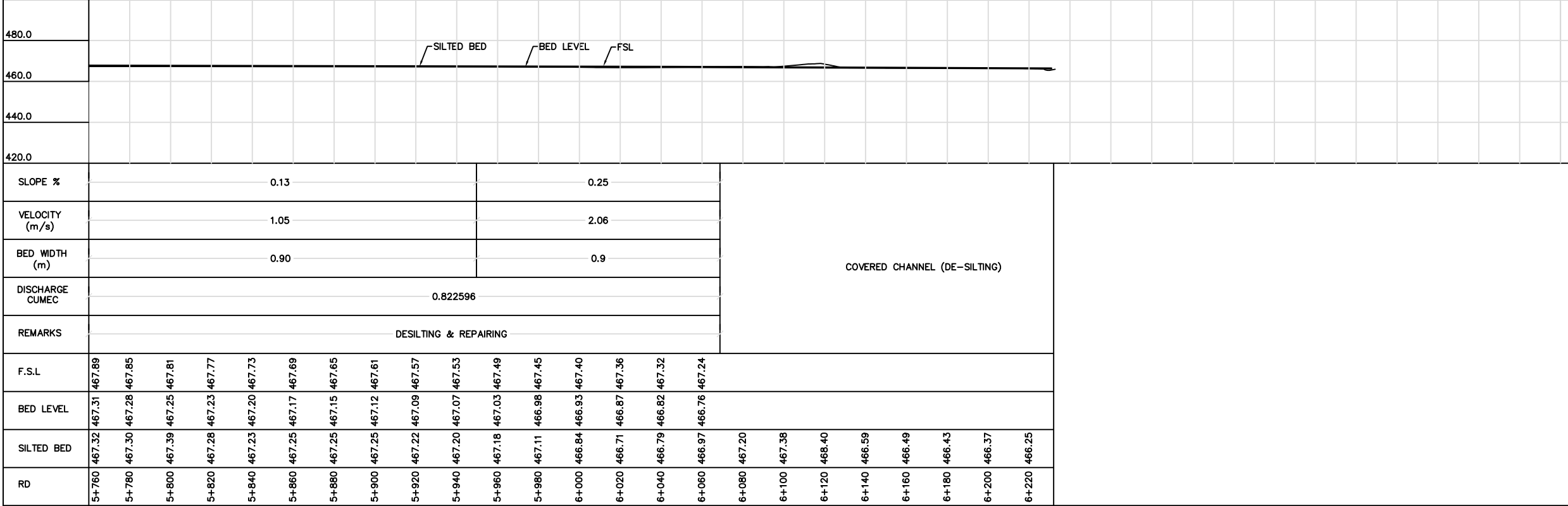




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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

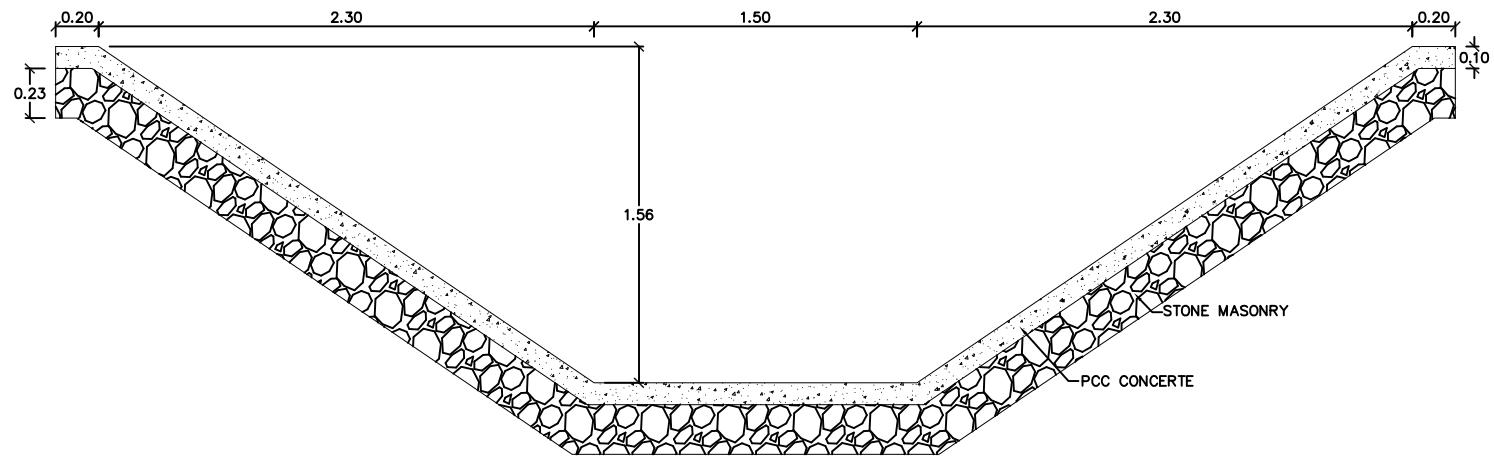
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**ENGINEERING & TECHNICAL ASSOCIATES**

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

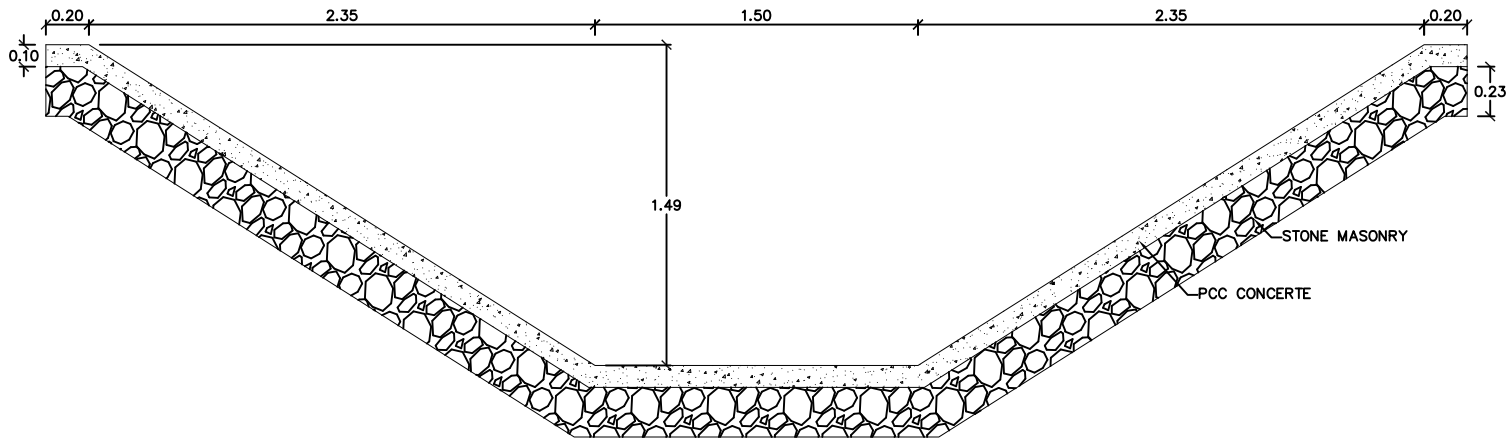
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
SULMAN BRANCH

DRG.No:-	TND-809	SHEET:-	09 OF 09	SUB SH.-	----
		SCALE	DATE		
		Shown	JANUARY 2021		

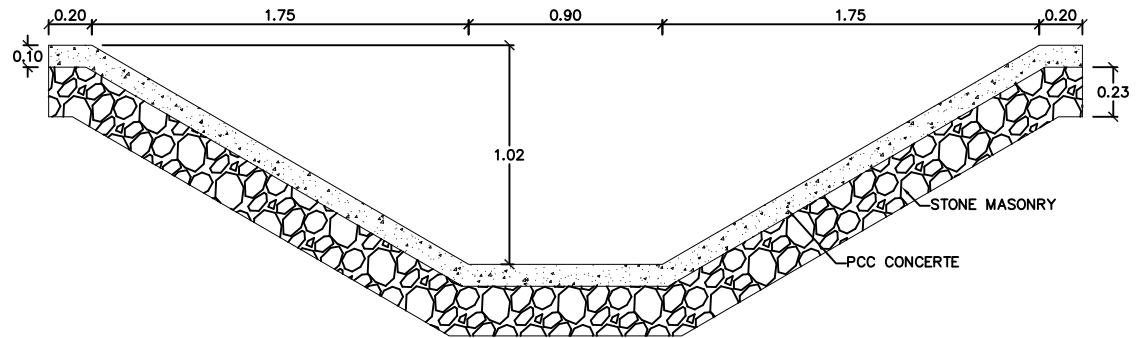
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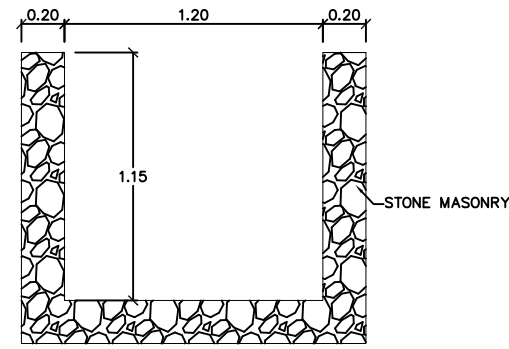
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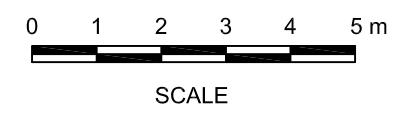
AT RD 3+400



AT RD 6+047



AT RD 6+231



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
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 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
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 ENGINEERING & CONSULTANTS

IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**EXISTING CROSS SECTIONS OF  
 SULEMAN DISTRY**

	SCALE	DATE
	Shown	JANUARY 2021
DRG.No:- TND-810	SHEET:- 01 OF 01	SUB SH.- ----



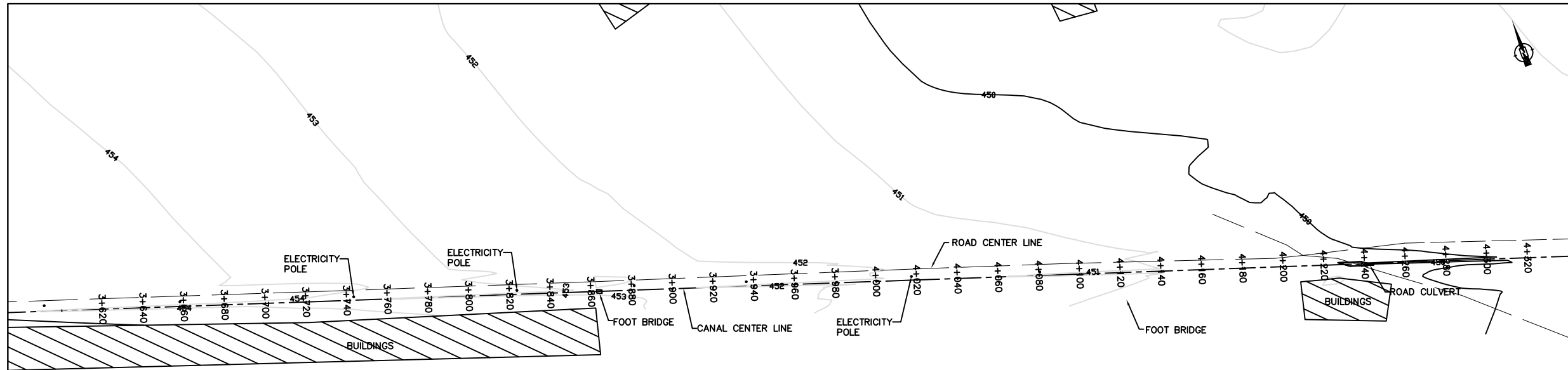






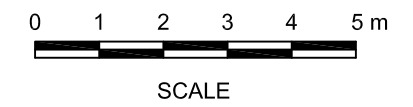






SCALES:  
1M = 2000M HOR  
1M = 2000M VER

480.0								480.0																													
460.0								460.0																													
440.0								440.0																													
420.0								420.0																													
SLOPE %						0.60		0.63																													
VELOCITY (m/s)						1.49		1.56																													
BED WIDTH (m)						0.38		0.30																													
DISCHARGE CUMEC						0.45		0.45																													
REMARKS						DESILTING & REPAIRING																															
FSL	3+600	3+620	3+640	3+660	3+680	3+700	3+720	3+740	3+760	3+780	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080	4+100	4+120	4+140	4+160	4+180	4+200	4+220	4+240	4+260	4+280	4+300	4+320
BED LEVEL	453.99	453.87	453.75	453.63	453.51	453.39	453.27	453.15	453.03	452.91	452.79	452.67	452.55	452.43	452.31	452.19	452.07	451.95	451.83	451.71	451.59	451.47	451.35	451.23	451.11	450.99	450.87	450.75	450.63	450.50	450.37	450.24	450.12	449.99	449.86	449.74	449.61
SILTED BED	453.99	453.87	453.75	453.63	453.51	453.39	453.27	453.15	453.03	452.91	452.79	452.67	452.55	452.43	452.31	452.19	452.07	451.95	451.83	451.71	451.59	451.47	451.35	451.23	451.11	450.99	450.87	450.75	450.63	450.50	450.37	450.24	450.12	449.99	449.86	449.74	449.61
RD	3+600	3+620	3+640	3+660	3+680	3+700	3+720	3+740	3+760	3+780	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080	4+100	4+120	4+140	4+160	4+180	4+200	4+220	4+240	4+260	4+280	4+300	4+320



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

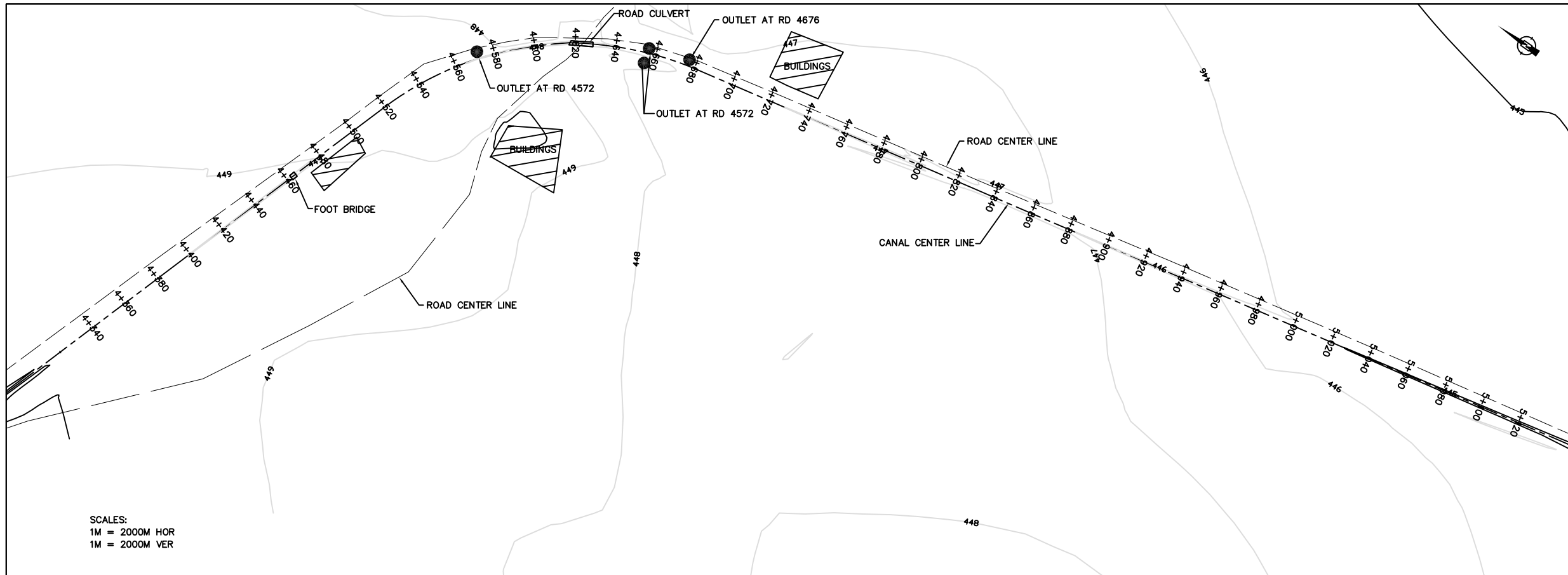
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF TANDA DAM KAMAR DHAND

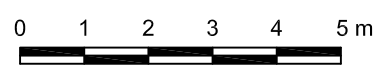
DRG.No:-	TND-906	SHEET:-	06 OF 11	SCALE	DATE
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				SUB SH:-	----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

460.0											460.0
440.0											440.0
420.0											420.0
400.0											400.0
SLOPE %	0.63			0.63			0.63			0.55	
VELOCITY (m/s)	1.56			1.56			1.56			1.52	
BED WIDTH (m)	0.30			0.30			0.30			0.38	
DISCHARGE CUMEC	0.45			0.37			0.21			0.17	
REMARKS	DESILTING & REPAIRING										
FSL	449.61	449.10	449.10	449.10	449.10	449.10	449.10	449.10	449.10	449.10	445.55
BED LEVEL	449.48	449.36	449.23	449.10	448.97	448.85	448.72	448.59	448.46	448.34	445.07
SILTED BED	449.61	449.48	449.36	449.23	449.10	448.97	448.85	448.72	448.59	448.46	445.07
RD	44320	44340	44360	44380	44400	44420	44440	44460	44480	44500	44520
	44380	44400	44420	44440	44460	44480	44500	44520	44540	44560	44580
	44600	44620	44640	44660	44680	44700	44720	44740	44760	44780	44800
	44820	44840	44860	44880	44900	44920	44940	44960	44980	5+000	5+020
	5+040										



SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

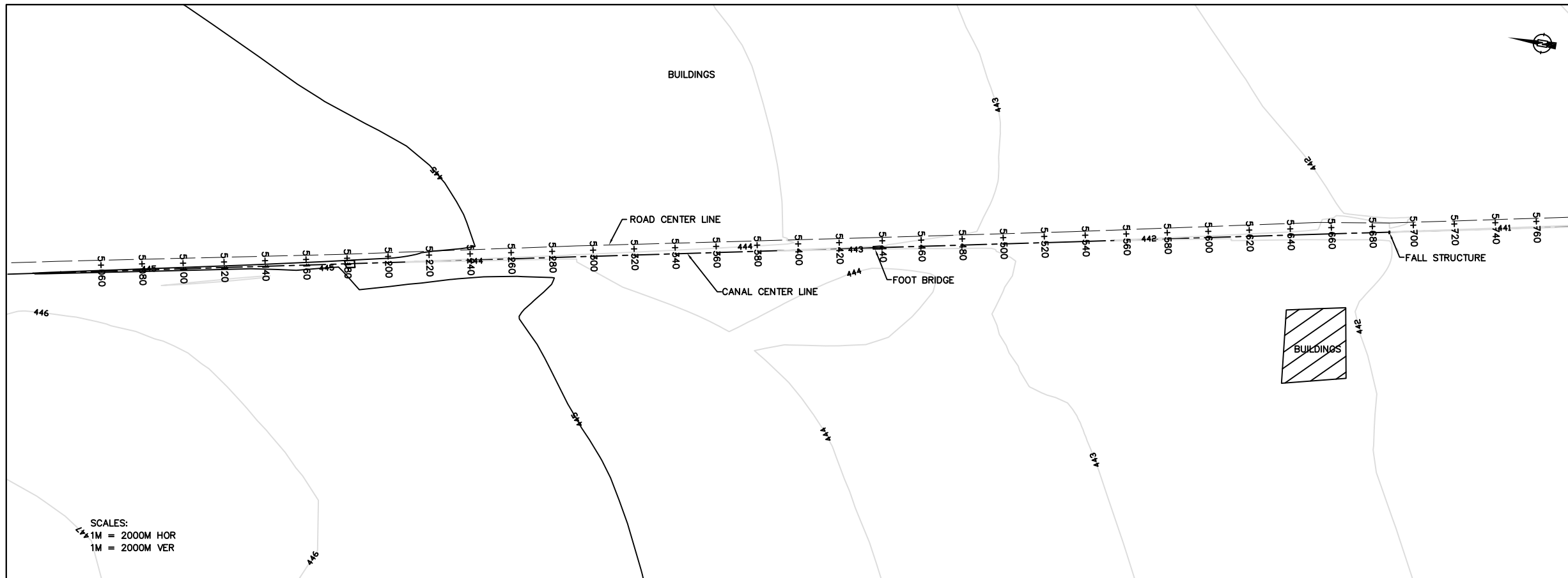
REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 ETA IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
KAMAR DHAND**

DRG.No:-	TND-907	SHEET:-	07 OF 11	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

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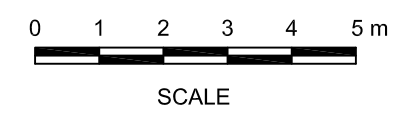


SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER

RD	FSL	BED LEVEL	SILTED BED
5+040	444.90	445.07	445.55
5+060	444.80	444.95	445.43
5+080	444.70	444.83	445.31
5+100	444.60	444.71	445.19
5+120	444.49	444.59	445.07
5+140	444.39	444.47	444.95
5+160	444.29	444.35	444.83
5+180	444.18	444.23	444.71
5+200	444.05	444.11	444.59
5+220	443.93	443.99	444.47
5+240	443.80	443.87	444.35
5+260	443.67	443.75	444.23
5+280	443.55	443.63	444.11
5+300	443.43	443.51	443.99
5+320	443.34	443.39	443.87
5+340	443.24	443.27	443.75
5+360	443.15	443.15	443.63
5+380	443.06	443.03	443.51
5+400	442.97	442.91	443.39
5+420	442.88	442.79	443.27
5+440	442.78	442.67	443.15
5+460	442.65	442.54	443.03
5+480	442.51	442.42	442.91
5+500	442.38	442.30	442.79
5+520	442.23	442.18	442.67
5+540	442.09	442.06	442.55
5+560	441.96	441.94	442.43
5+580	441.83	441.82	442.31
5+600	441.70	441.72	442.22
5+620	441.57	441.61	442.13
5+640	441.44	441.51	442.04
5+660	441.45	441.40	441.98
5+680	441.71	441.30	441.98
5+700	441.40	441.07	441.91
5+720	441.03	441.03	441.85
5+740	441.33	440.99	441.80
5+760	441.27	440.95	441.74

RD	SLOPE %	VELOCITY (m/s)	BED WIDTH (m)	DISCHARGE CUMEC	REMARKS
5+040 - 5+580	0.60	1.57	0.30	0.17	DESILTING & REPAIRING
5+580 - 5+760	0.52	1.63	0.30	0.17	RELINING OF CHANNEL REPLACING PARABOLA TO TRAPEZOIDAL



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS**

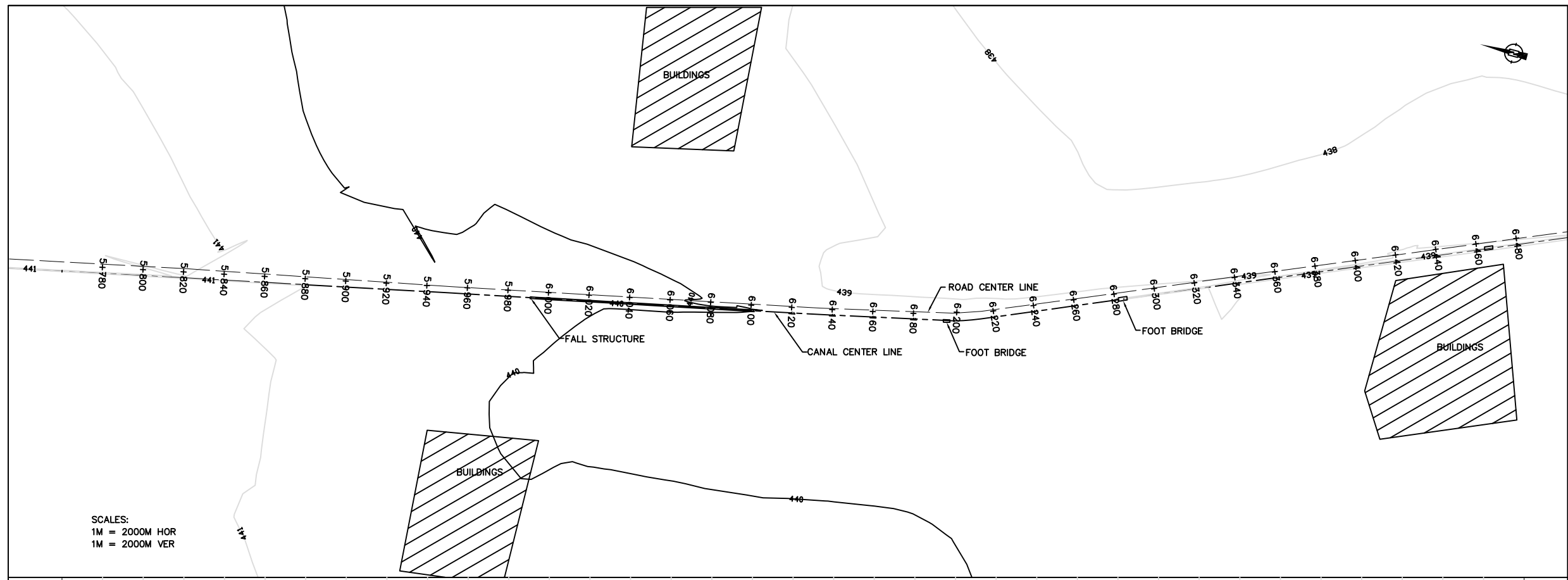
REVISED & UPDATED FOR TENDER BY: A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
**CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
 IN ASSOCIATION WITH: **ETA** ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & PROFILE OF TANDA DAM KAMAR DHAND**

DRG.No:- TND-908	SHEET:- 08 OF 11	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

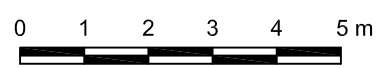
RD	FSL	BED LEVEL	SILTED BED
5+760	441.27	440.95	441.74
5+780	441.23	440.91	441.68
5+800	441.19	440.87	441.62
5+820	441.15	440.83	441.56
5+840	441.08	440.79	441.51
5+860	441.01	440.75	441.45
5+880	440.93	440.71	441.39
5+900	440.85	440.67	441.33
5+920	440.77	440.63	441.28
5+940	440.70	440.59	441.22
5+960	440.67	440.55	441.16
5+980	440.73	440.51	441.10
6+000	440.05	439.88	440.64
6+020	440.03	439.85	440.60
6+040	440.03	439.81	440.57
6+060	440.06	439.77	440.53
6+080	439.73	439.73	440.50
6+100	440.05	439.69	440.46
6+120	439.92	439.66	440.43
6+140	439.80	439.62	440.39
6+160	439.76	439.58	440.36
6+180	439.69	439.54	440.32
6+200	439.65	439.50	440.29
6+220	439.60	439.47	440.25
6+240	439.58	439.43	440.22
6+260	439.54	439.39	440.18
6+280	439.45	439.35	440.15
6+300	439.35	439.32	440.11
6+320	439.28	439.28	440.08
6+340	439.24	439.24	440.04
6+360	439.20	439.20	440.01
6+380	439.17	439.16	439.97
6+400	439.16	439.13	439.94
6+420	439.15	439.09	439.90
6+440	439.11	439.05	439.87
6+460	439.08	439.01	439.83
6+480	439.05	438.98	439.80

Parameter	Value
SLOPE %	0.20
VELOCITY (m/s)	0.97
BED WIDTH (m)	0.30
DISCHARGE CUMEC	0.17

FALL STRUCTURE

RELINING OF CHANNEL REPLACING PARABOLA SEC WITH TRAPEZOIDAL SEC



SCALE

TENDER DRAWING

CLIENT:  
KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

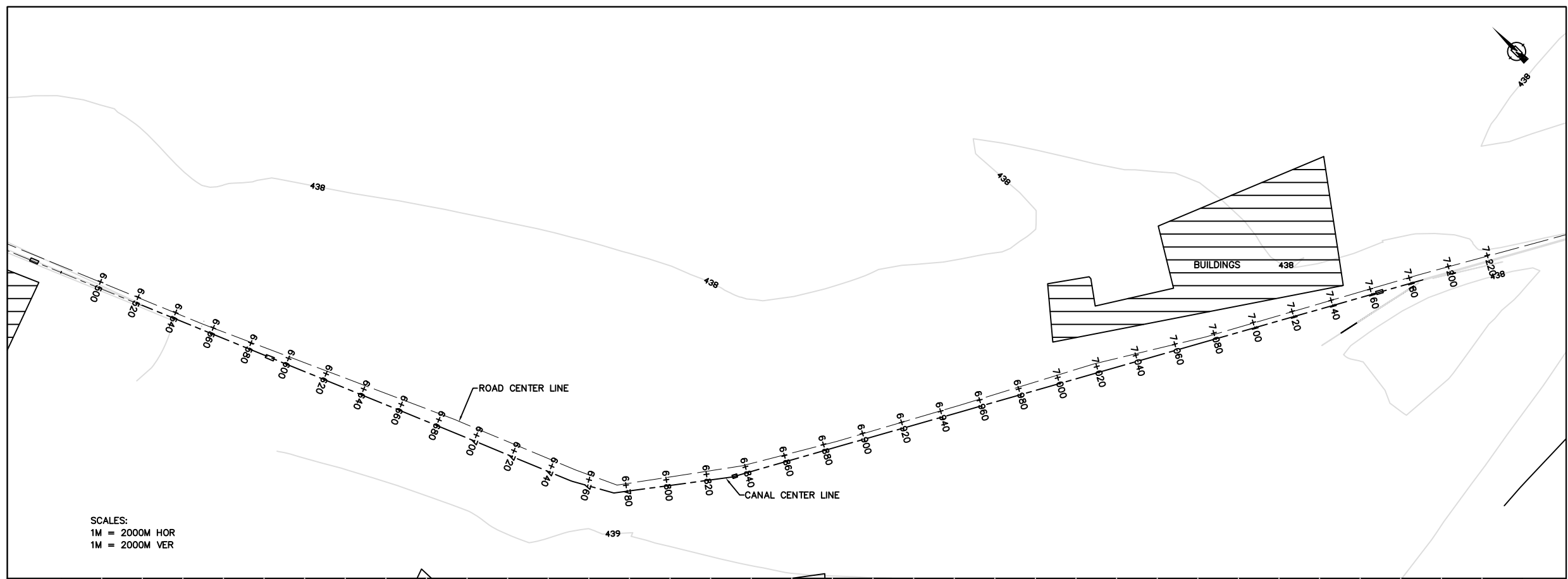
FS CONSULTANTS:  
CAMEOS  
REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
PLAN & PROFILE OF TANDA DAM  
KAMAR DHAND

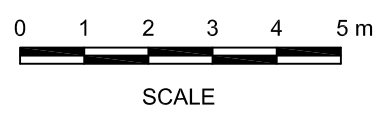
DRG.No:- TND-909	SHEET:- 09 OF 11	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER




		ROAD CENTER LINE		CANAL CENTER LINE	
460.0					
440.0					
420.0					
400.0					
	SLOPE %	0.19	0.11		0.11
	VELOCITY (m/s)	1.26	0.90		0.75
	BED WIDTH (m)	0.30	0.30		0.30
	DISCHARGE CUMEC	0.17	0.17		0.17
	REMARKS	RELINING OF CHANNEL REPLACING PARABOLA SEC TO TRAPEZOIDAL SEC			
FSL		439.80	439.76	439.73	439.70
BED LEVEL		439.05	438.94	438.90	438.86
SILTED BED		439.02	438.94	438.90	438.86
RD		6+480	6+500	6+520	6+540
		6+560	6+580	6+600	6+620
		6+640	6+660	6+680	6+700
		6+720	6+740	6+760	6+780
		6+800	6+820	6+840	6+860
		6+880	6+900	6+920	6+940
		6+960	6+980	7+000	7+020
		7+040	7+060	7+080	7+100
		7+120	7+140	7+160	7+180
		7+200			



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

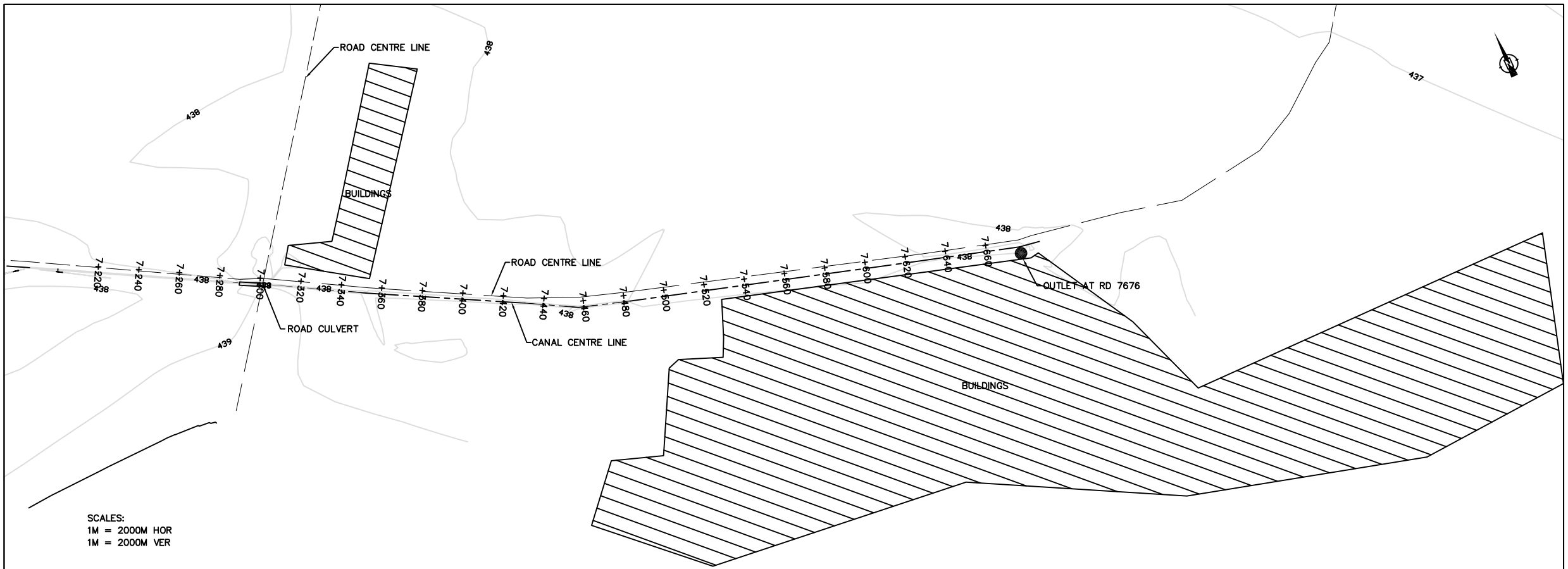
REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 RHC REHMAN HABBIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 KAMAR DHAND**

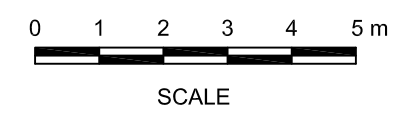
DRG.No:- TND-910	SHEET:- 10 OF 11	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

460.0						460.0
440.0						440.0
420.0						420.0
400.0						400.0
SLOPE %	0.11		0.07			
VELOCITY (m/s)	0.75		0.75			
BED WIDTH (m)	0.30		0.30			
DISCHARGE CUMEC	0.17		0.17			
REMARKS	RELINING OF CHANNEL REPLACING PARABOLA SEC WITH TRAPEZOIDAL SEC					
FSL	438.09	439.07	439.06	439.04	439.02	
BED LEVEL	438.14	438.12	438.10	438.08	438.05	
SILTED BED	438.40	438.36	438.29	438.25	438.32	
RD	7+200	7+220	7+240	7+260	7+280	
	438.14	439.07	439.06	439.04	439.02	
	438.30	438.30	438.30	438.30	438.30	
	438.99	438.99	438.99	438.99	438.99	
	438.97	438.97	438.97	438.97	438.97	
	438.95	438.95	438.95	438.95	438.95	
	438.93	438.93	438.93	438.93	438.93	
	438.85	438.85	438.85	438.85	438.85	
	438.83	438.83	438.83	438.83	438.83	
	438.81	438.81	438.81	438.81	438.81	
	438.79	438.79	438.79	438.79	438.79	
	438.77	438.77	438.77	438.77	438.77	
	438.75	438.75	438.75	438.75	438.75	
	438.73	438.73	438.73	438.73	438.73	
	438.71	438.71	438.71	438.71	438.71	
	438.69	438.69	438.69	438.69	438.69	
	438.67	438.67	438.67	438.67	438.67	
	438.65	438.65	438.65	438.65	438.65	
	438.63	438.63	438.63	438.63	438.63	



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
**KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
**CAMEOS**

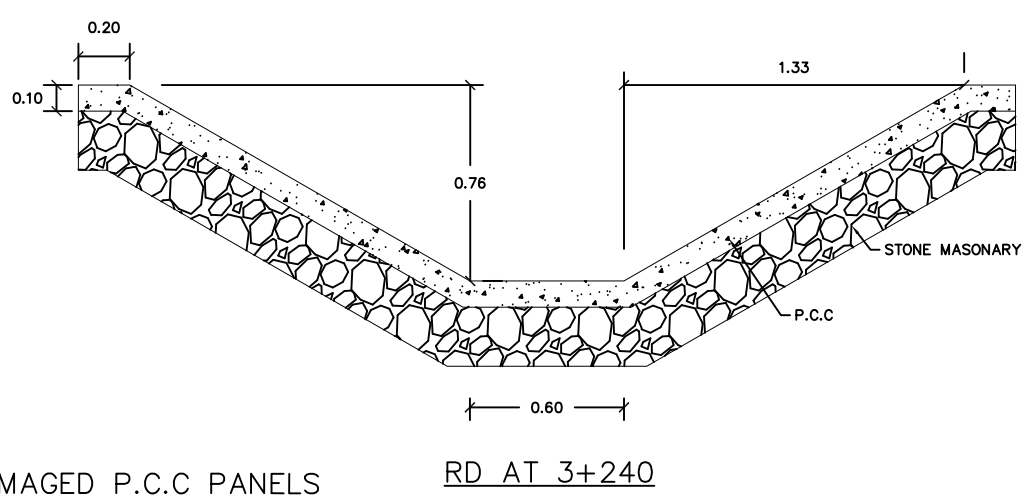
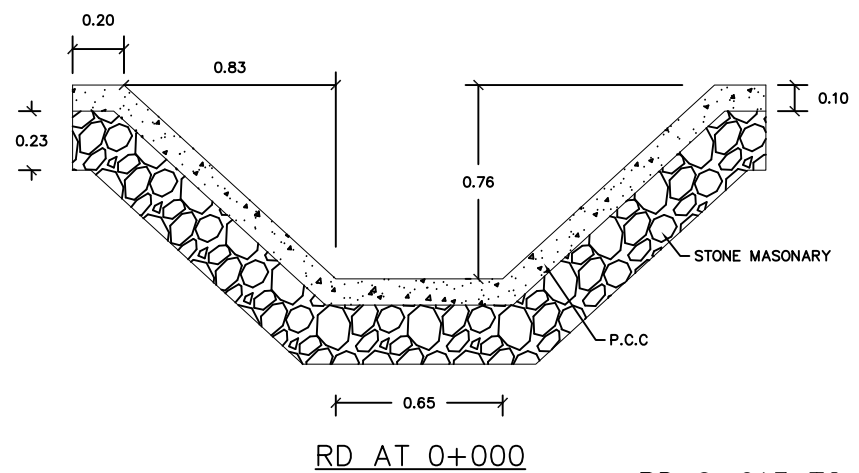
REVISED & UPDATED FOR TENDER BY:  
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**ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

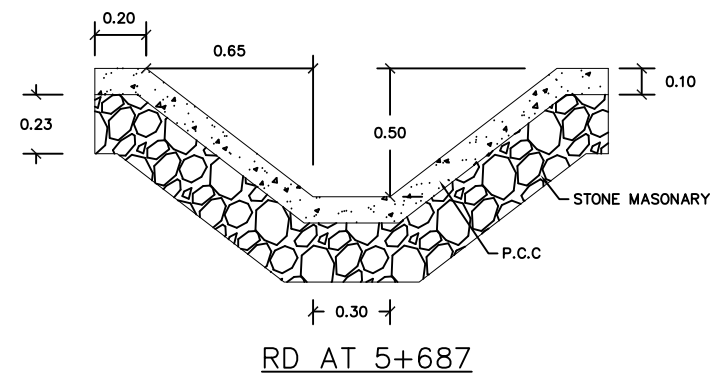
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**KAMAR DHAND**

DRG.No:-	TND-911	SHEET:-	11 OF 11	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

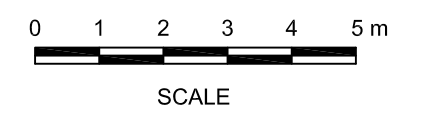
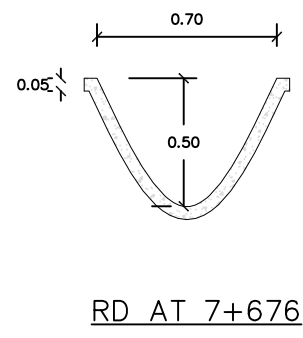
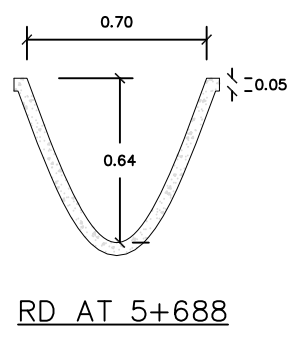
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RD 0+013 TO 0+160 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (400m)



RD 3+241 TO 5+687 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (242m)



TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

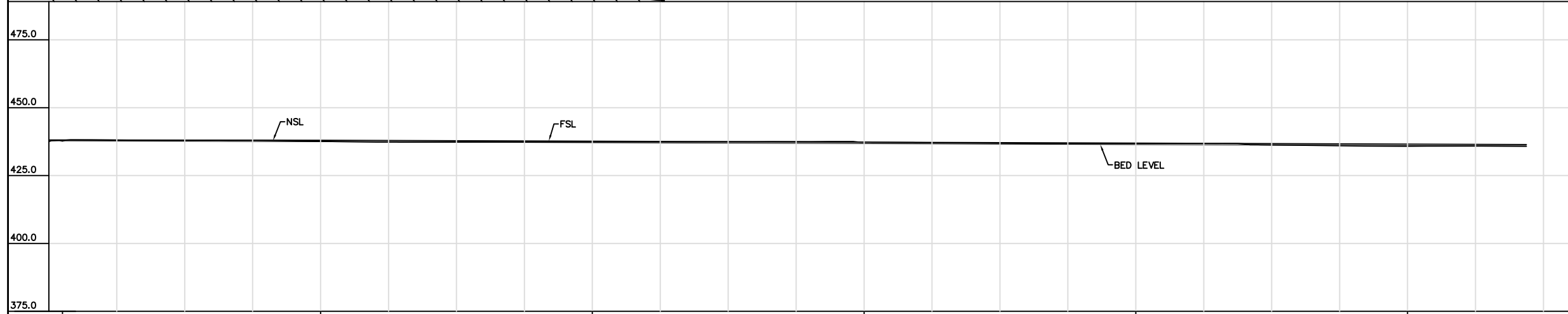
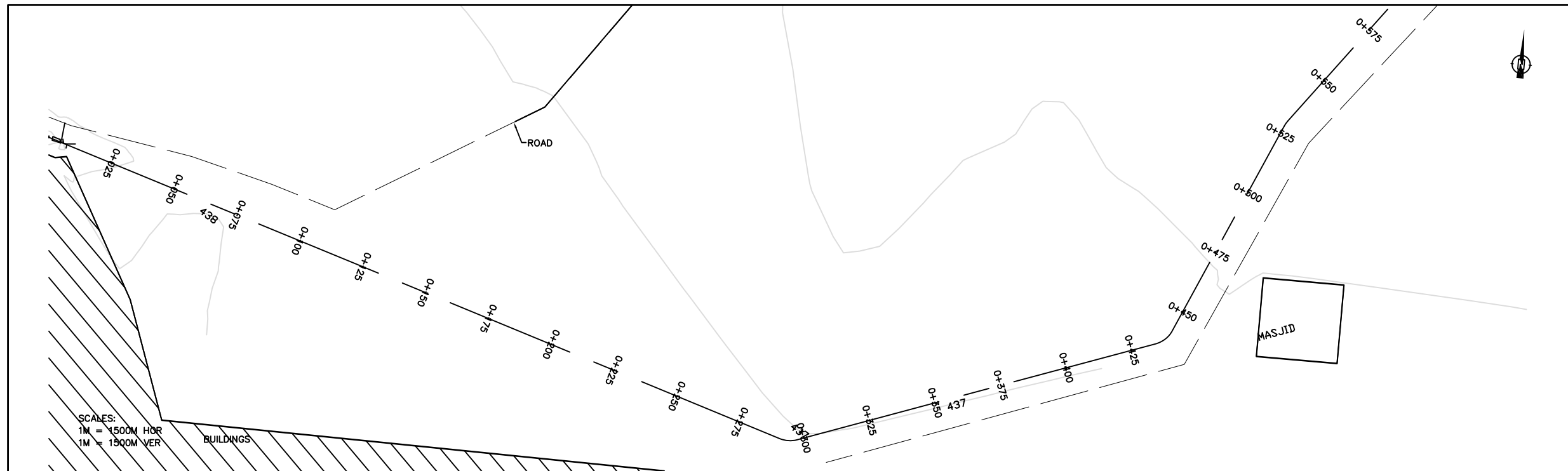
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

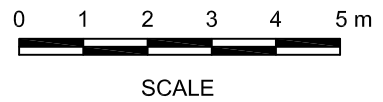
TITLE: EXISTING CROSS SECTIONS OF KAMAR DAND DISTRY

DRG.No:- TND-912	SHEET:- 01 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SLOPE %	0.35		0.35		0.35		0.35		0.35		0.35																											
VELOCITY (m/s)	0.95		0.91		0.84		0.92		0.79		0.98																											
BED WIDTH (m)	0.3		0.3		0.3		0.3		0.3		0.3																											
DISCHARGE CUMEC	0.10																																					
F.S.L	437.77	438.05	437.60	438.02	437.99	437.96	437.88	437.79	437.70	437.62	437.53	437.44	437.35	437.26	437.18	437.10	437.01	436.93	436.84	436.74	436.64	436.55	436.47															
BED LEVEL	437.48	438.06	437.95	437.60	437.51	437.99	437.32	437.30	437.34	437.16	437.70	437.45	437.49	437.26	437.08	436.64	437.18	436.91	436.73	436.46	437.01	436.77	436.37	436.93	436.82	436.29	436.84	436.26	436.20	436.74	436.11	436.64	436.82	436.02	436.55	435.86	435.94	436.47
NSL	437.48	438.06	437.95	437.60	437.51	437.99	437.32	437.30	437.34	437.16	437.70	437.45	437.49	437.26	437.08	436.64	437.18	436.91	436.73	436.46	437.01	436.77	436.37	436.93	436.82	436.29	436.84	436.26	436.20	436.74	436.11	436.64	436.82	436.02	436.55	435.86	435.94	436.47
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525																



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

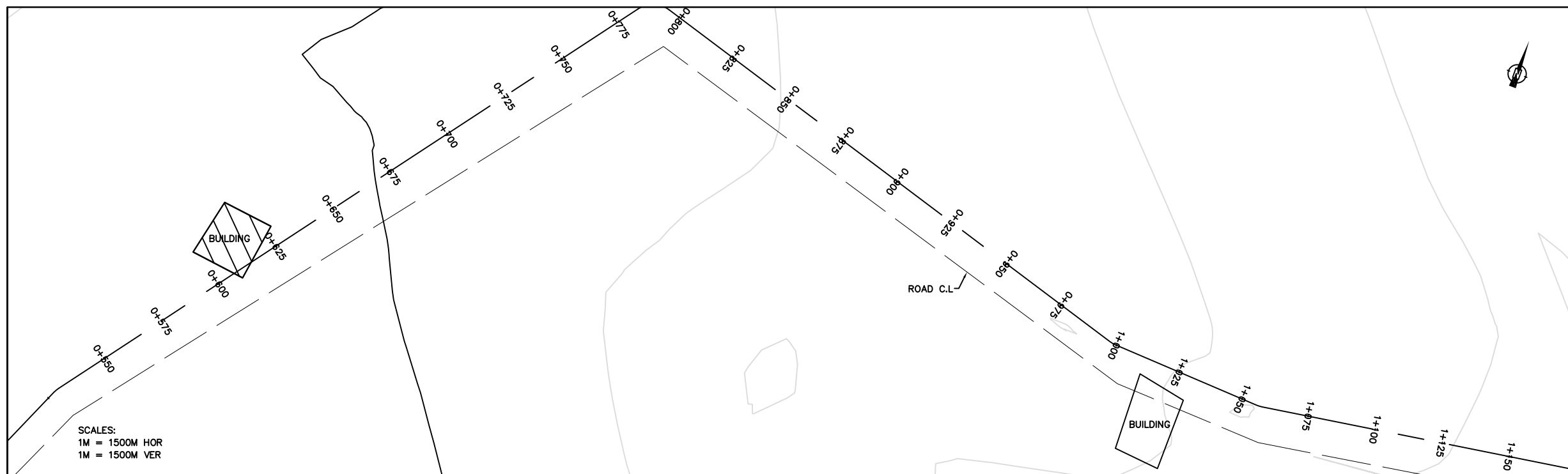
TITLE: **PLAN AND PROFILE OF KAMAR DAND EXTENSION**

SCALE	DATE
Shown	JANUARY / 2021

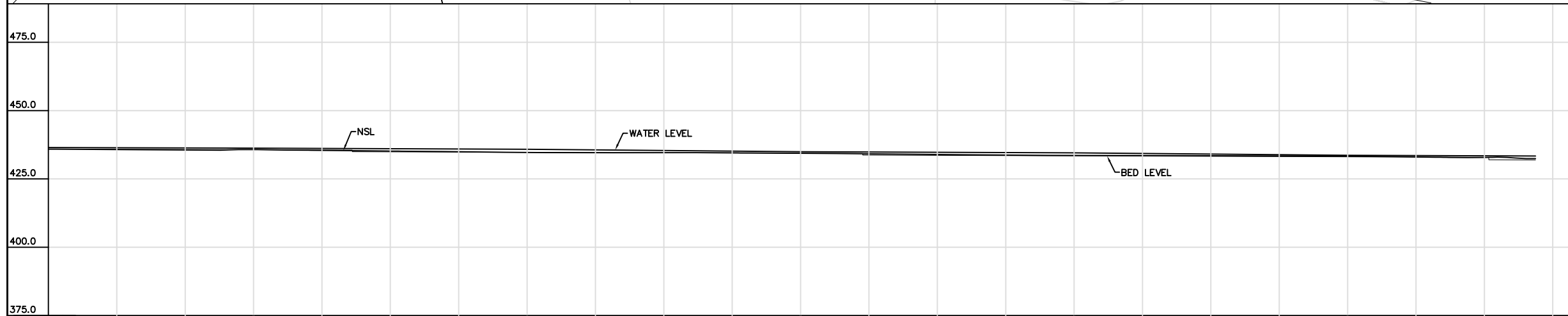
DRG.No:- TND-1001 SHEET:- 01 OF 03 SUB SH.- ----



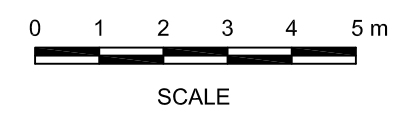
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.35		0.35		0.35		0.35		0.35		0.35																																											
VELOCITY (m/s)	0.98		0.75		1.07		0.75		1.06		0.76																																											
BED WIDTH (m)	0.3		0.3		0.3		0.3		0.3		0.3																																											
DISCHARGE CUMEC	0.10																																																					
F.S.L	435.86	435.94	436.47	435.71	435.67	436.24	435.19	434.90	436.04	434.93	434.81	435.94	434.65	434.72	435.84	434.61	434.55	435.39	434.53	434.46	435.16	434.37	434.37	434.94	434.17	433.69	434.84	433.93	433.60	434.74	433.71	433.51	434.64	433.59	433.42	434.54	433.53	433.34	434.31	433.47	433.25	434.09	433.41	433.16	433.86	433.35	433.07	433.63	433.05	432.99	433.53	432.86	432.90	433.44
BED LEVEL	435.86	435.94	436.47	435.71	435.67	436.24	435.19	434.90	436.04	434.93	434.81	435.94	434.65	434.72	435.84	434.61	434.55	435.39	434.53	434.46	435.16	434.37	434.37	434.94	434.17	433.69	434.84	433.93	433.60	434.74	433.71	433.51	434.64	433.59	433.42	434.54	433.53	433.34	434.31	433.47	433.25	434.09	433.41	433.16	433.86	433.35	433.07	433.63	433.05	432.99	433.53	432.86	432.90	433.44
NSL	435.86	435.76	435.57	435.76	435.67	436.32	435.19	434.90	436.04	434.93	434.81	435.94	434.65	434.72	435.84	434.61	434.55	435.39	434.53	434.46	435.16	434.37	434.37	434.94	434.17	433.69	434.84	433.93	433.60	434.74	433.71	433.51	434.64	433.59	433.42	434.54	433.53	433.34	434.31	433.47	433.25	434.09	433.41	433.16	433.86	433.35	433.07	433.63	433.05	432.99	433.53	432.86	432.90	433.44
RD	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050																																



**TENDER DRAWING**

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS**

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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

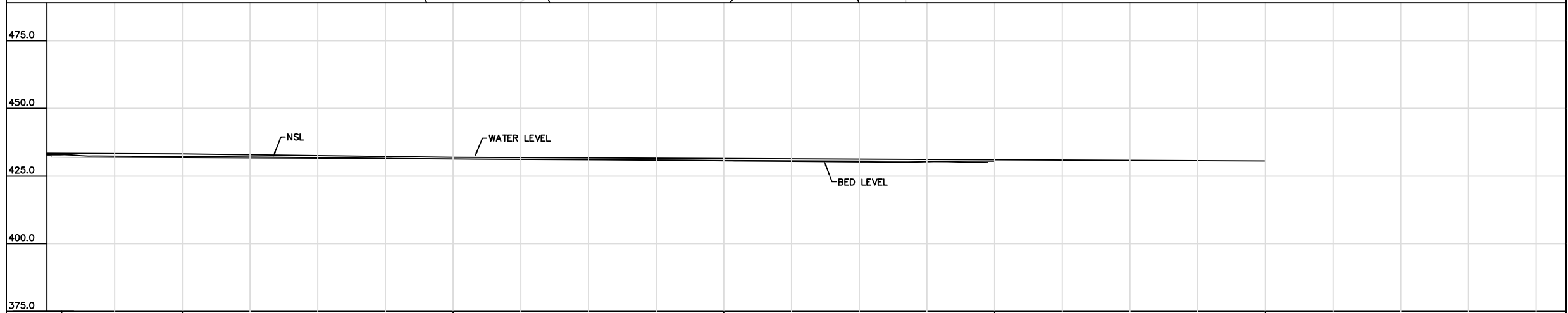
TITLE: **PLAN AND PROFILE OF KAMAR DAND EXTENSION**

DRG.No:- TND-1002	SHEET:- 02 OF 03	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH:-	----

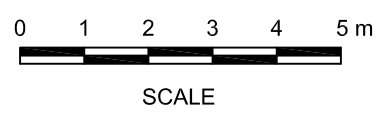
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.45		0.45		0.45		0.45		0.45											
VELOCITY (m/s)	0.76		1.07		0.8		1.05		0.87											
BED WIDTH (m)	0.3		0.3		0.3		1.8		0.3											
DISCHARGE CUMEC	0.10																			
F.S.L	432.86	432.90	433.44																	
BED LEVEL	432.86	431.89	433.34																	
NSL	432.86	432.39	432.23	431.78	433.24															
RD	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400					



**TENDER DRAWING**

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

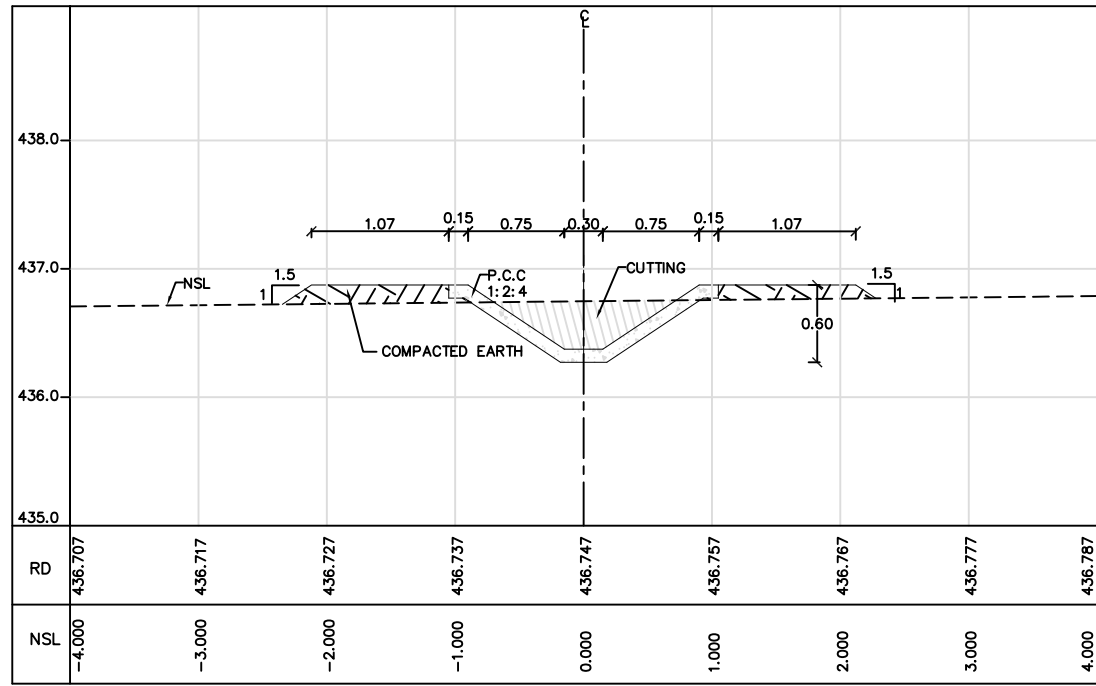
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

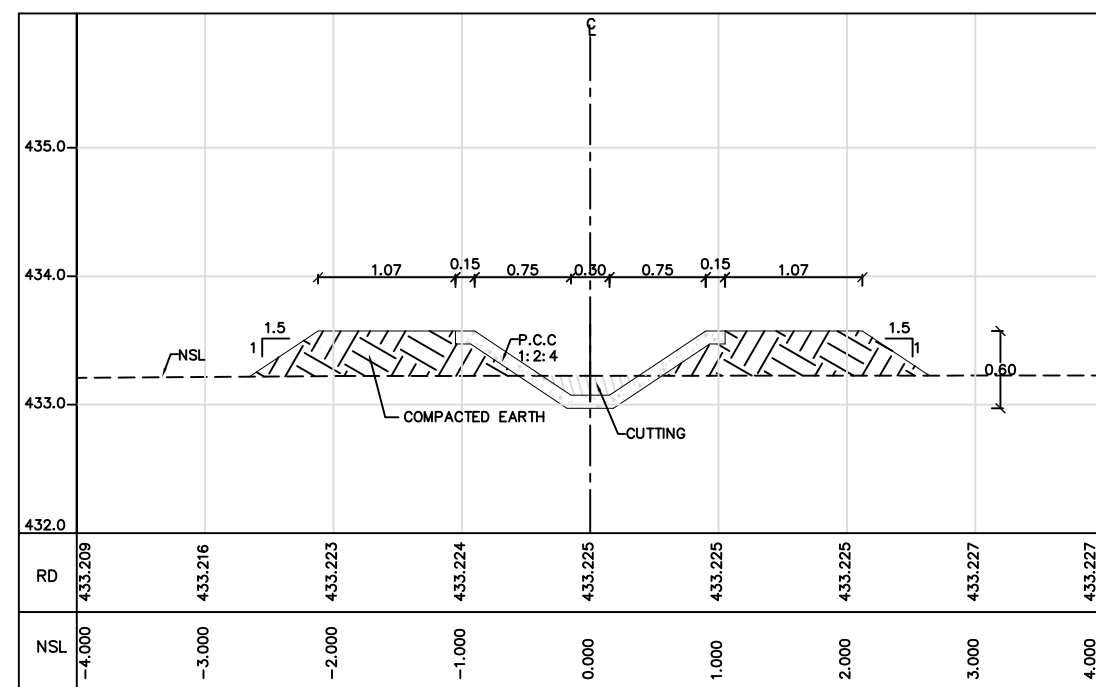
TITLE: **PLAN AND PROFILE OF KAMAR DAND EXTENSION**

DRG.No:- TND-1003	SHEET:- 03 OF 03	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH:-	----

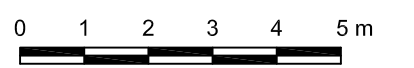
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AT RD 0+400




AT RD 1+000






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

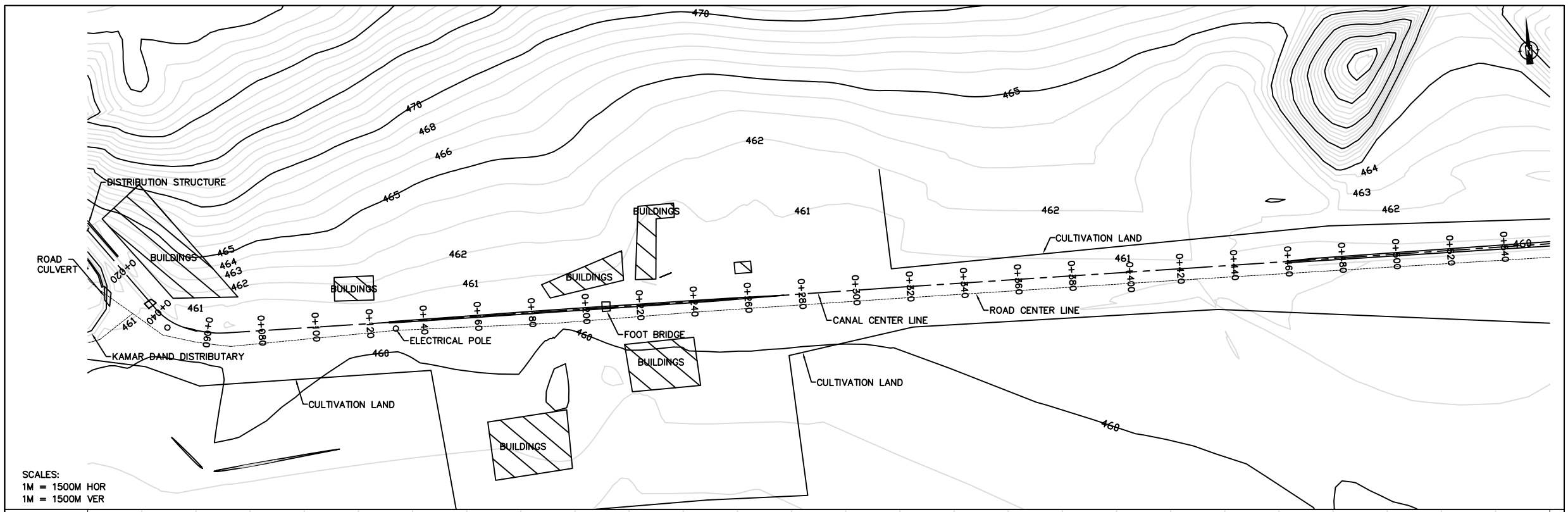
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**CROSS SECTION OF KAMAR DAND EXTENSION**

DRG.No:-	TND-1004	SHEET:-	1 OF 01	SCALE	DATE
				Shown	JANUARY 2021
		SUB SH.-	----		

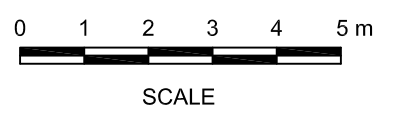
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SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER


	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540
F.S.L	460.44	460.44	460.44	460.43	460.43	460.43	460.42	460.42	460.42	460.41	460.41	460.41	460.40	460.40	460.39	460.39	460.38	460.38	460.37	460.37	460.36	460.36	460.35	460.34	460.34	460.33	460.33	460.32
BED LEVEL	460.20	460.14	460.08	460.03	460.03	460.02	460.02	460.02	460.02	460.02	460.02	460.01	460.01	460.01	460.00	459.99	459.99	459.98	459.97	459.97	459.96	459.95	459.95	459.94	459.94	459.93	459.92	459.92
SILTED BED	460.20	460.28	460.21	460.09	460.12	460.07	460.02	460.03	460.05	460.06	460.09	460.02	460.02	460.03	460.01	460.05	460.08	460.08	460.09	460.08	460.07	460.05	460.03	460.00	459.97	459.95	459.93	459.93
RD	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540



REMARKS: DE-SILTING & REPAIRING



**TENDER DRAWING**

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

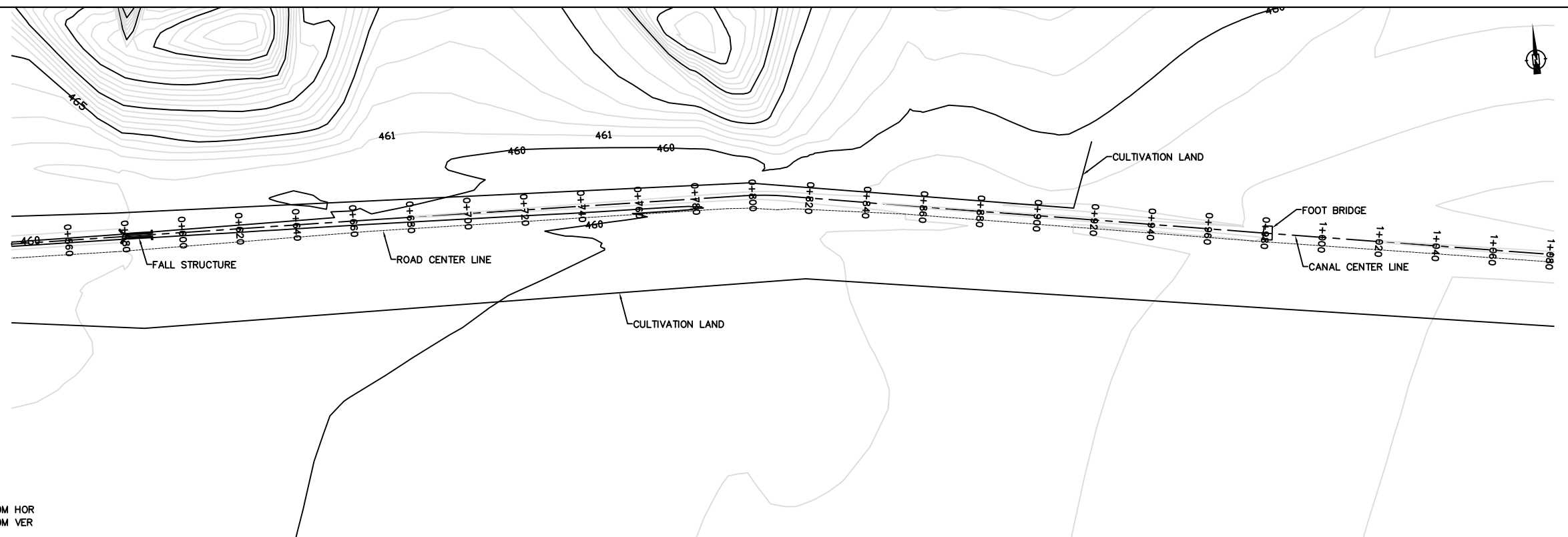
FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 ETA IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

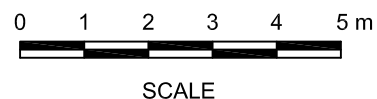
TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 CHAMBAI DISTRY**

DRG.No.:-	TND-1101	SHEET:-	01 OF 08	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021



SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER

	FALL STRUCTURE (REPAIRING)																											
SLOPE %	0.03					0.08																						
VELOCITY (m/s)	0.52					1.25																						
BED WIDTH (m)	0.62					0.64																						
DISCHARGE CUMEC	0.2690					0.2690																						
REMARKS	DE-SILTING & REPAIRING																											
F.S.L	460.32	460.32	460.31	460.12	459.87	459.74	459.61	459.48	459.35	459.22	459.09	458.96	458.83	458.70	458.57	458.44	458.31	458.18	458.05	457.91	457.77	457.64	457.52	457.41	457.30	457.19	457.08	456.97
BED LEVEL	459.92	459.91	459.88	459.66	459.52	459.39	459.25	459.11	458.97	458.84	458.70	458.56	458.42	458.29	458.15	458.01	457.88	457.76	457.64	457.52	457.39	457.27	457.15	457.03	456.90	456.78	456.66	456.54
SILTED BED	459.92	459.91	459.88	459.66	459.52	459.39	459.25	459.11	458.97	458.84	458.70	458.56	458.44	458.31	458.17	458.04	457.92	457.81	457.70	457.59	457.48	457.38	457.27	457.13	457.00	456.86	456.73	456.59
RD	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080



**TENDER DRAWING**

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF  
 ENGINEERING & CONSULTANTS

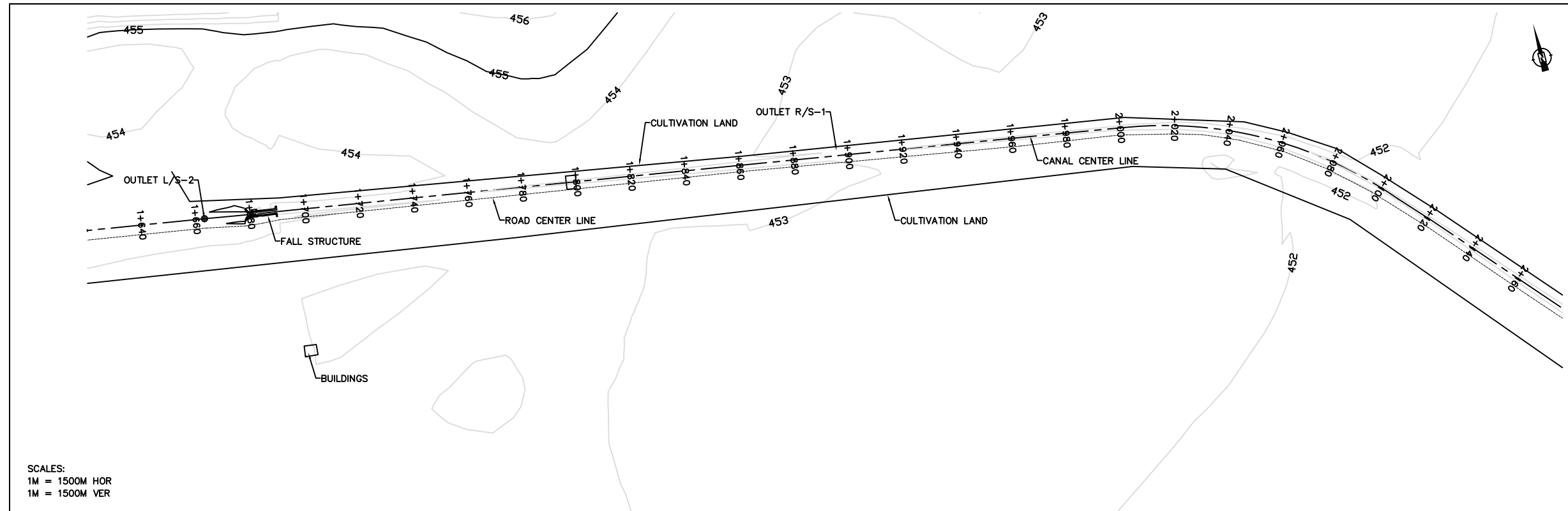
IN ASSOCIATION WITH:  
 ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 CHAMBAI DISTRY**

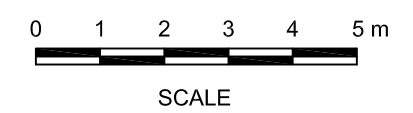
DRG.No:- TND-1102 SHEET:- 02 OF 11 SCALE DATE  
 Shown JANUARY 2021  
 SUB SH:- ----





SCALES:  
1M = 1500M HOR  
1M = 1500M VER

																FSL																SILTED BED																BED LEVEL
480.0																																																
460.0																																																
440.0																																																
SLOPE %	0.11					FALL STRUCTURE (REPAIRING)	0.6																				0.59					0.17																
VELOCITY (m/s)	1.24						0.59																				1.24					0.75																
BED WIDTH (m)	0.62						0.62																				0.58					0.58																
DISCHARGE CUMEC	0.2190						0.190																				0.190					0.190																
REMARKS	DE-SILTING & REPAIRING																																															
F.S.L	454.55	454.53	454.51	454.50	453.82	453.74	453.63	453.51	453.40	453.29	453.17	453.06	452.95	452.83	452.72	452.61	452.49	452.38	452.27	452.15	452.04	451.93	451.81	451.70	451.56	451.42	451.27	451.13																				
BED LEVEL	454.21	454.19	454.17	454.13	453.49	453.41	453.29	453.17	453.06	452.94	452.82	452.70	452.58	452.46	452.34	452.23	452.11	451.99	451.87	451.75	451.63	451.51	451.40	451.28	451.11	450.97	450.83	450.69																				
SILTED BED	454.24	454.20	454.17	454.13	453.49	453.41	453.30	453.18	453.07	452.98	452.85	452.71	452.58	452.45	452.34	452.23	452.12	451.99	451.87	451.76	451.63	451.51	451.40	451.28	451.12	450.97	450.83	450.69																				
RD	1+620	1+640	1+660	1+680	1+700	1+720	1+740	1+760	1+780	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160																				



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

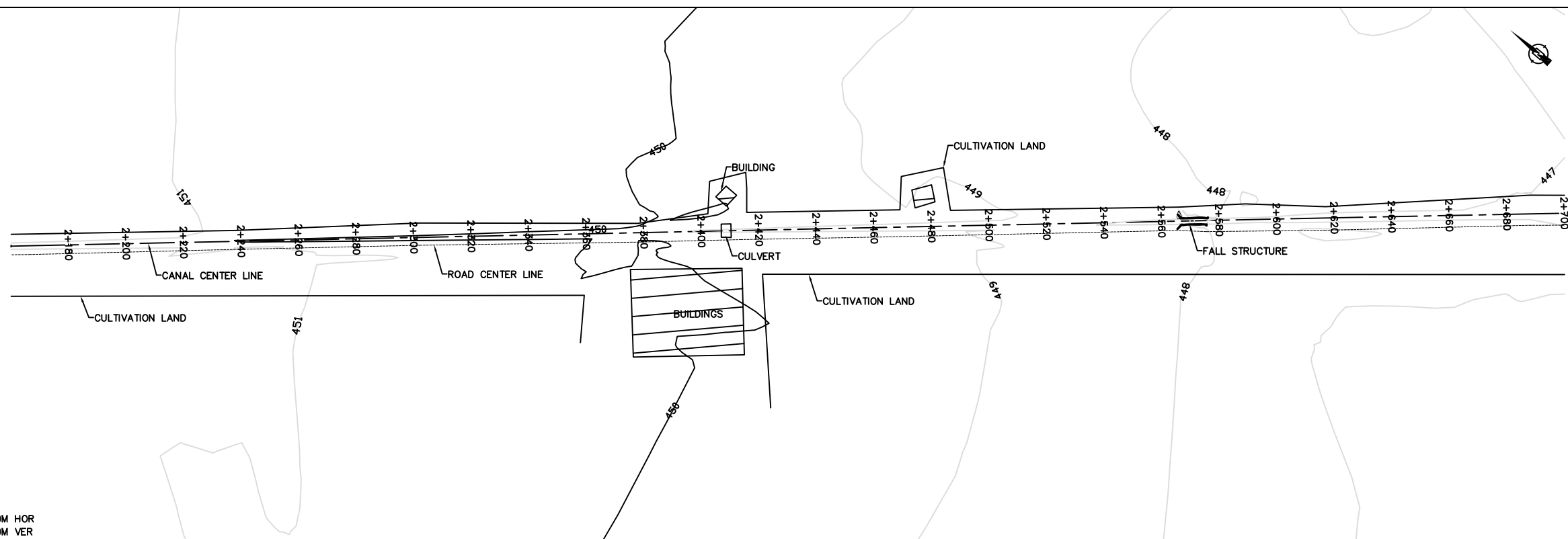
FS CONSULTANTS: **CAMEOS**

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IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

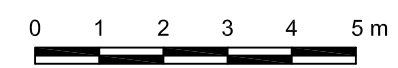
TITLE:  
**PLAN & PROFILE OF TANDA DAM CHAMBAI DISTRY**

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

460.0																							
440.0																							
420.0																							
SLOPE %																			0.17	FALL STRUCTURE (REPAIRING)		0.66	0.04
VELOCITY (m/s)																			0.75			1.36	0.47
BED WIDTH (m)																			0.50			0.5	0.54
DISCHARGE CUMEC																			0.190			0.190	0.190
REMARKS	DE-SILTING & REPAIRING																						
F.S.L	451.13																						
BED LEVEL	450.69	450.55	450.41	450.27	450.13	449.99	449.85	449.71	449.56	449.42	449.28	449.14	449.00	448.86	448.72	448.58	448.44	448.29	448.15	448.01			
SILTED BED	450.69	450.55	450.42	450.27	450.14	449.99	449.87	449.71	449.58	449.42	449.28	449.14	449.01	448.86	448.72	448.58	448.44	448.29	448.16	448.03			
RD	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500	2+520	2+540			



SCALE

TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS**, **RHC** REHMAN HABIB CONSULTANTS (PVT) LTD., **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

REVIEWED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
**CASCADE GROUP OF ENGINEERING & CONSULTANTS**

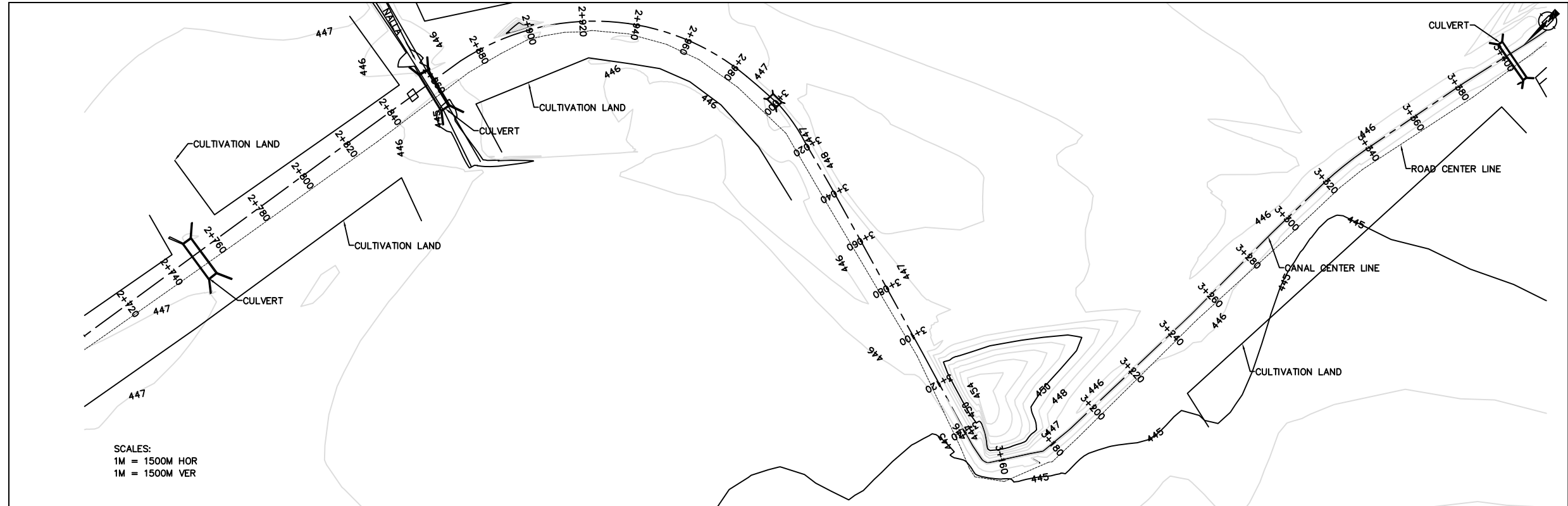
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & PROFILE OF TANDA DAM  
CHAMBAI DISTRY**

DRG.No:- TND-1105	SHEET:- 05 OF 08	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH-	----

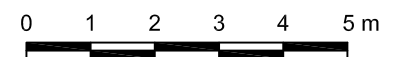


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

460.0																												
440.0																												
420.0																												
SLOPE %	0.04																											
VELOCITY (m/s)	0.5																											
BED WIDTH (m)	0.54																											
DISCHARGE CUMEC	0.190																											
REMARKS	DE-SILTING & REPAIRING																											
F.S.L	446.56	446.55	446.54	446.53	446.52	446.51	446.51	446.50	446.49	446.48	446.47	446.46	446.46	446.45	446.44	446.43	446.42	446.42	446.41	446.40	446.39	446.38	446.37	446.37	446.36	446.35	446.34	446.33
BED LEVEL	446.06	446.05	446.05	446.04	446.03	446.02	446.01	446.01	446.00	445.99	445.98	445.97	445.96	445.95	445.94	445.93	445.92	445.92	445.91	445.91	445.90	445.89	445.88	445.88	445.87	445.86	445.85	445.84
SILTED BED	446.28	446.28	446.27	446.26	446.21	446.16	446.11	446.15	446.21	446.15	446.10	446.15	446.14	446.17	446.20	446.11	446.14	446.15	446.15	446.16	446.28	446.24	445.97	445.87	445.84	445.87	445.85	445.84
RD	2+700	2+720	2+740	2+760	2+780	2+800	2+820	2+840	2+860	2+880	2+900	2+920	2+940	2+960	2+980	3+000	3+020	3+040	3+060	3+080	3+100	3+120	3+140	3+160	3+180	3+200	3+220	3+240



SCALE

TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

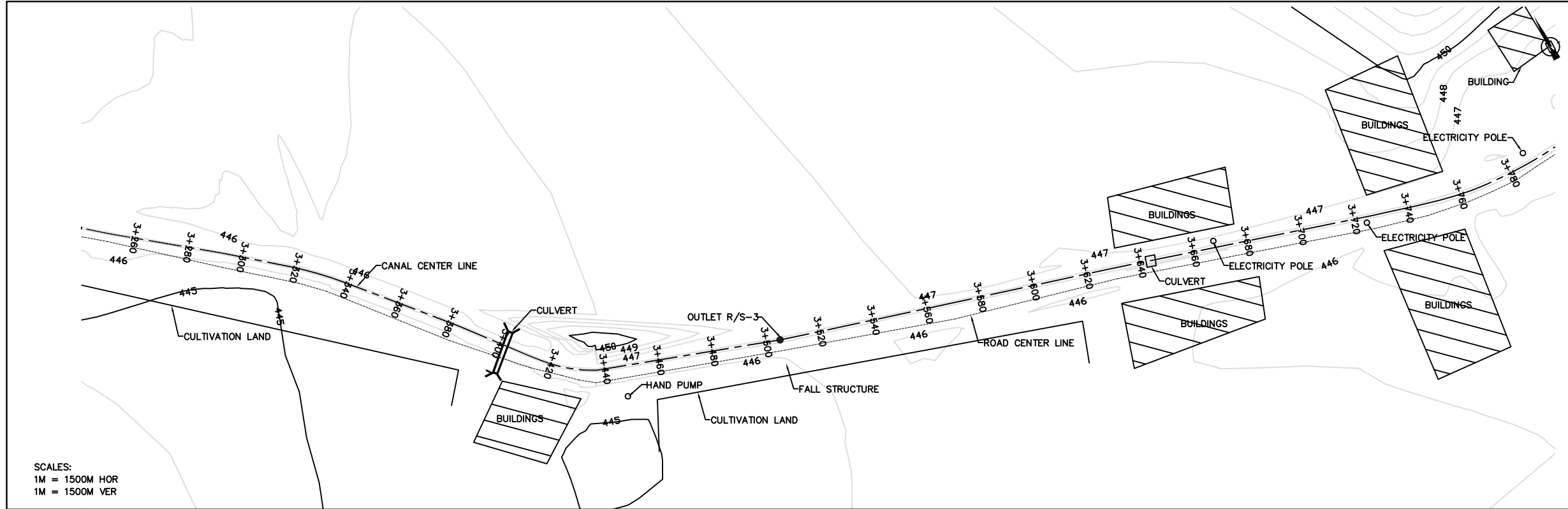
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 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**

IN ASSOCIATION WITH:  
 **ETA** ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

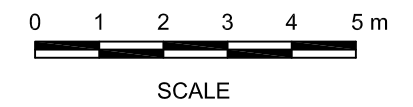
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**CHAMBAI DISTRY**

DRG.No:- TND-1106	SHEET:- 06 OF 08	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----



SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER

RD	3+240	3+260	3+280	3+300	3+320	3+340	3+360	3+380	3+400	3+420	3+440	3+460	3+480	3+500	3+520	3+540	3+560	3+580	3+600	3+620	3+640	3+660	3+680	3+700	3+720	3+740	3+760	3+780
F.S.L	446.33	446.33	446.32	446.31	446.30	446.29	446.28	446.28	446.27	446.26	446.25	446.24	446.24	446.23	446.22	446.21	446.20	446.19	446.19	446.18	446.17	446.16	446.15	446.15	446.14	446.13	446.12	446.11
BED LEVEL	445.84	445.84	445.83	445.82	445.81	445.80	445.80	445.79	445.78	445.77	445.76	445.76	445.75	445.74	445.73	445.72	445.72	445.71	445.70	445.69	445.68	445.68	445.67	445.66	445.65	445.64	445.64	445.62
SILTED BED	445.89	445.89	445.87	445.85	445.80	445.82	445.81	445.79	445.81	445.87	445.80	445.77	445.75	445.74	445.73	445.73	445.76	445.77	445.75	445.74	445.73	445.68	445.71	445.68	445.66	445.65	445.69	445.67
DISCHARGE CUMEC														0.190														0.1420
REMARKS	DE-SILTING & REPAIRING																											
SLOPE %	0.04																											
VELOCITY (m/s)	0.5																											
BED WIDTH (m)	0.5																											
460.0	FSL																											
440.0	SILTED LEVEL																											
420.0	BED LEVEL																											



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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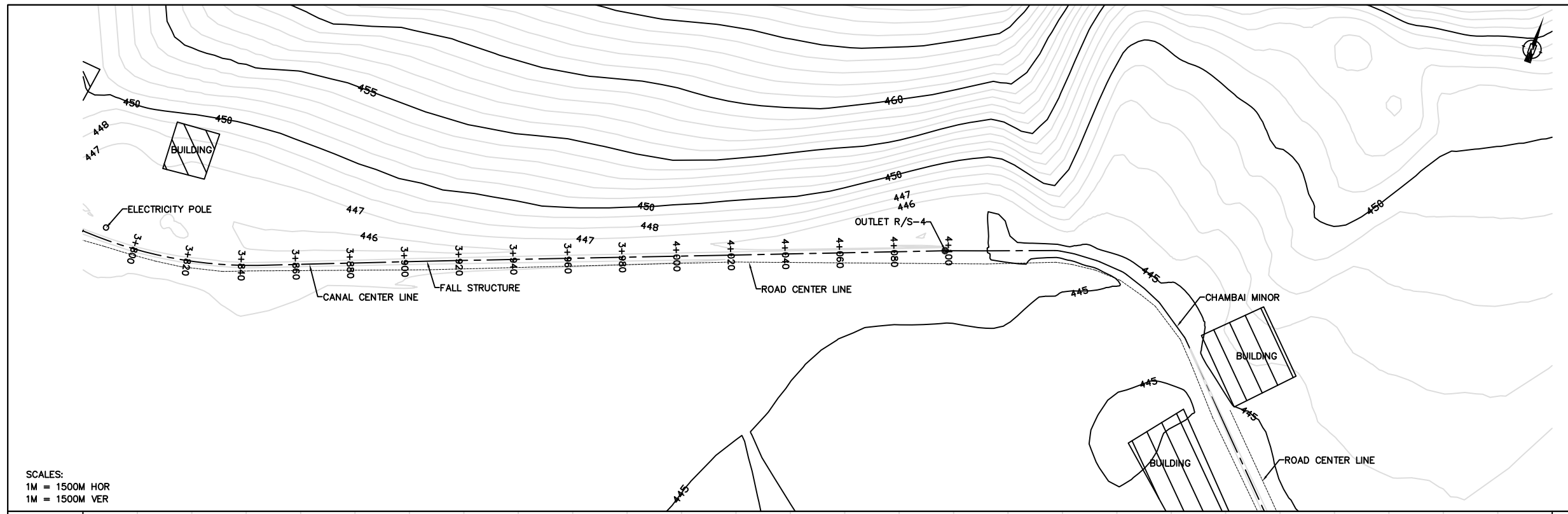
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 CHAMBAI DISTRY**

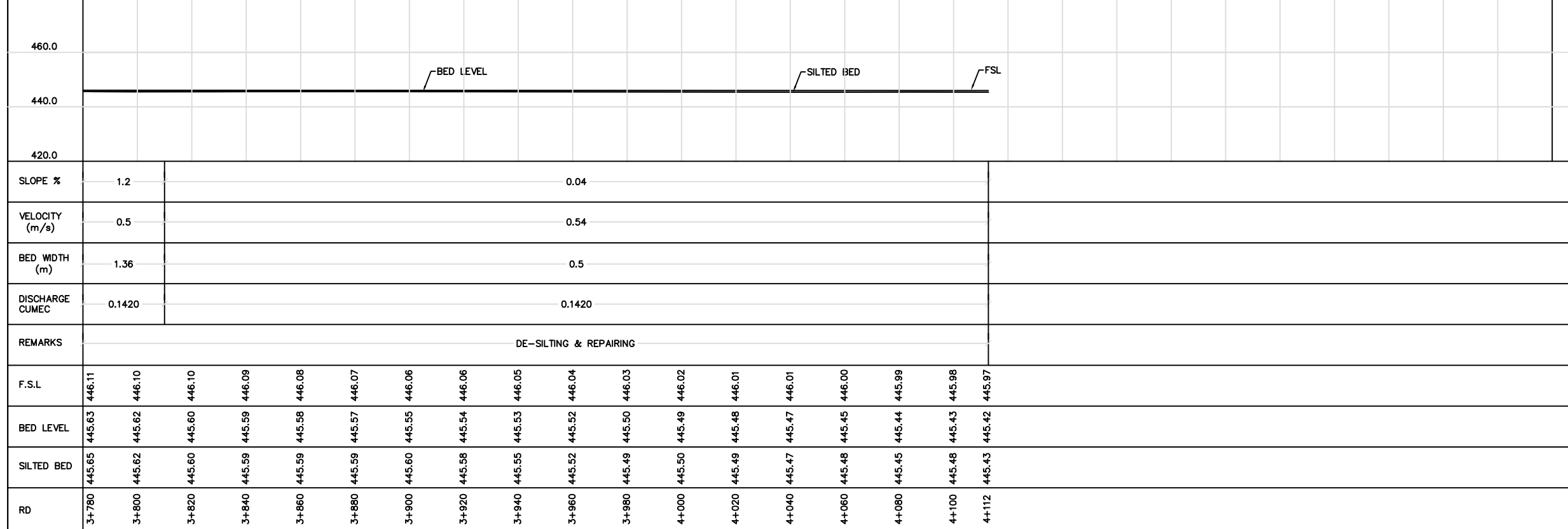
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-1107      SHEET:- 07 OF 08      SUB SH:- ----

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	1.2										0.04									
VELOCITY (m/s)	0.5										0.54									
BED WIDTH (m)	1.36										0.5									
DISCHARGE CUMEC	0.1420										0.1420									
REMARKS	DE-SILTING & REPAIRING																			
F.S.L	446.11	446.10	446.10	446.09	446.08	446.07	446.06	446.06	446.05	446.04	446.03	446.02	446.01	446.01	446.00	445.99	445.98	445.97	445.97	
BED LEVEL	445.63	445.62	445.60	445.59	445.58	445.57	445.55	445.54	445.53	445.52	445.50	445.49	445.48	445.47	445.45	445.44	445.43	445.42	445.42	
SILTED BED	445.65	445.62	445.60	445.59	445.58	445.58	445.58	445.58	445.55	445.52	445.49	445.49	445.49	445.47	445.48	445.45	445.48	445.43	445.42	
RD	3+780	3+800	3+820	3+840	3+860	3+880	3+900	3+920	3+940	3+960	3+980	4+000	4+020	4+040	4+060	4+080	4+100	4+112	4+112	



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

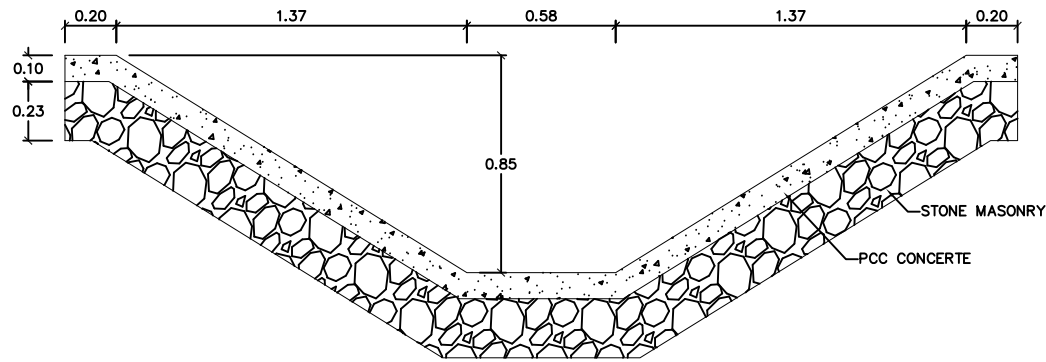
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 ETA  
IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

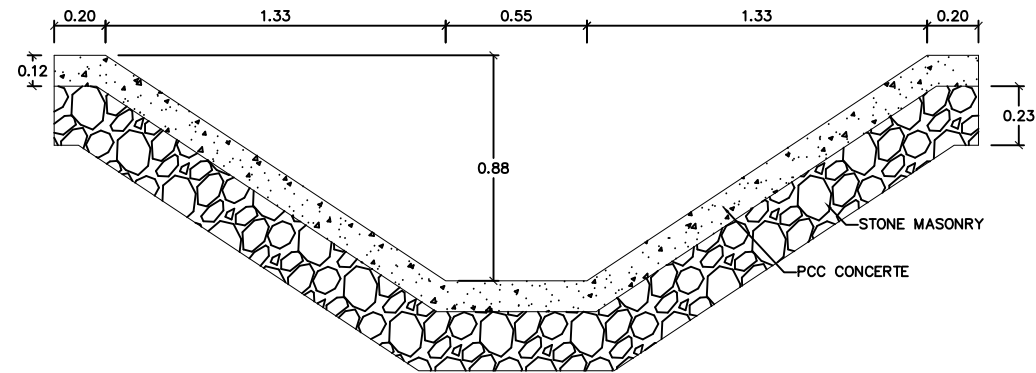
TITLE:  
**PLAN & PROFILE OF TANDA DAM  
CHAMBAI DISTRY**

DRG.No:- TND-1108	SHEET:- 08 OF 08	SCALE	DATE
		Shown	JANUARY 2021

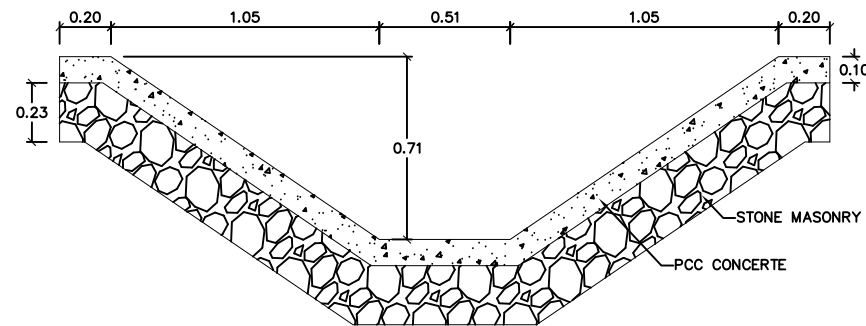
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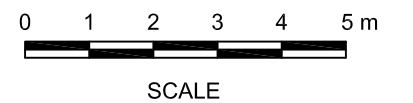
AT RD 2+080



RD 0+000 TO 2+080 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (700m)







RD 2+080 TO 4+136 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (724m)



TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

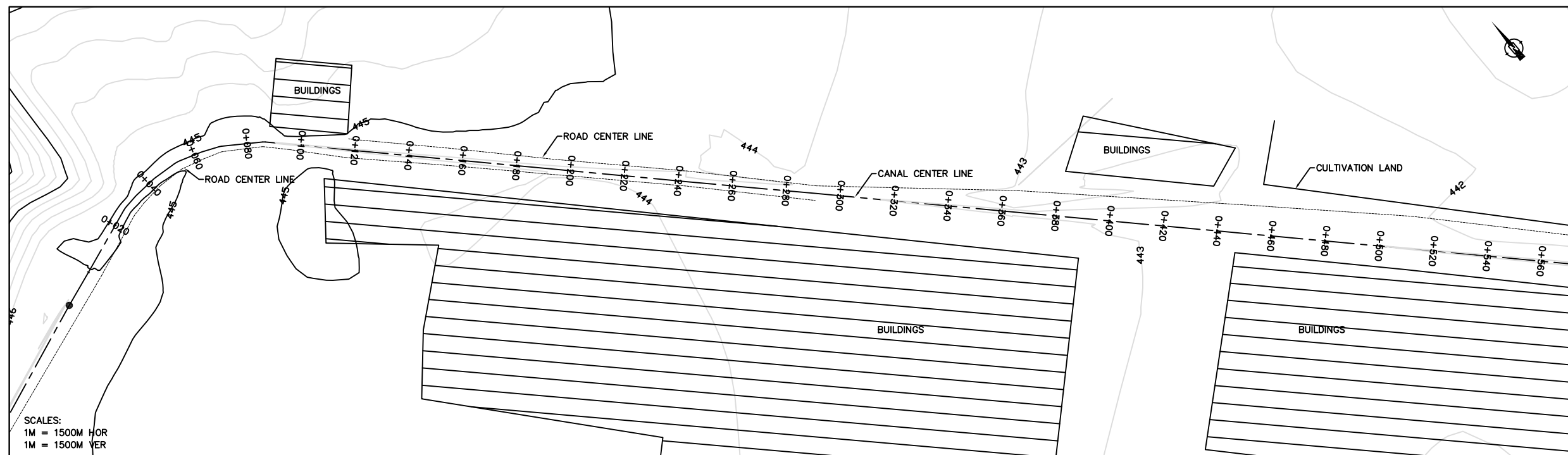
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 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **EXISTING CROSS SECTIONS  
CHAMBAI DISTRY  
EXISTING SECTIONS**

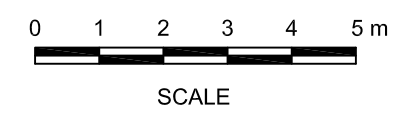
DRG.No:- TND-1109	SHEET:- 01 OF 01	SCALE	DATE
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		SUB SH.-	----

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RD	RE-LINING										FALL	RE-LINING																
	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180		0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520
F.S.L	444.53	444.53	444.45	444.37	444.29	444.21	444.13	444.05	443.96	443.88	443.80	443.72	443.64	443.56	443.48	443.32	443.16	443.02	442.88	442.80	442.73	442.66	442.59	442.52	442.46	442.39	442.32	442.25
BED LEVEL	444.29	444.27	444.17	444.07	443.97	443.88	443.78	443.68	443.58	443.48	443.38	443.28	443.18	443.09	442.99	442.83	442.72	442.64	442.56	442.48	442.40	442.32	442.24	442.16	442.08	442.00	441.92	441.85
EXISTING BED	445.39	444.25	444.26	444.15	444.07	443.94	443.88	443.77	443.66	443.55	443.45	443.37	443.29	443.27	443.24	443.14	442.95	442.77	442.58	442.49	442.42	442.36	442.29	442.20	442.10	442.02	441.94	441.87
RD	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540



SCALES:  
1M = 1500M HOR  
1M = 1500M VER



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

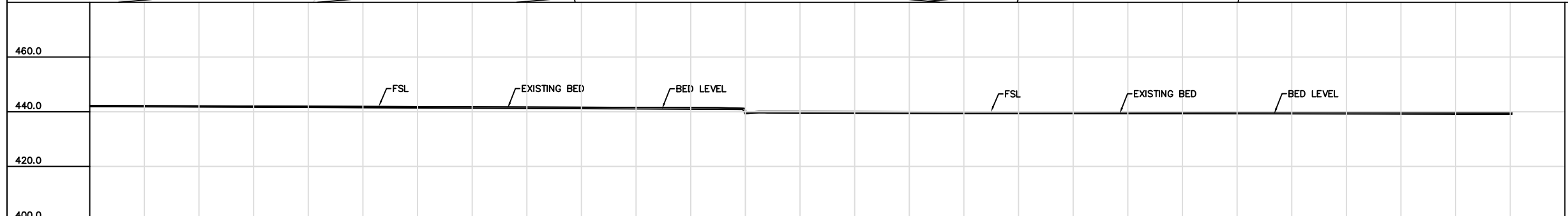
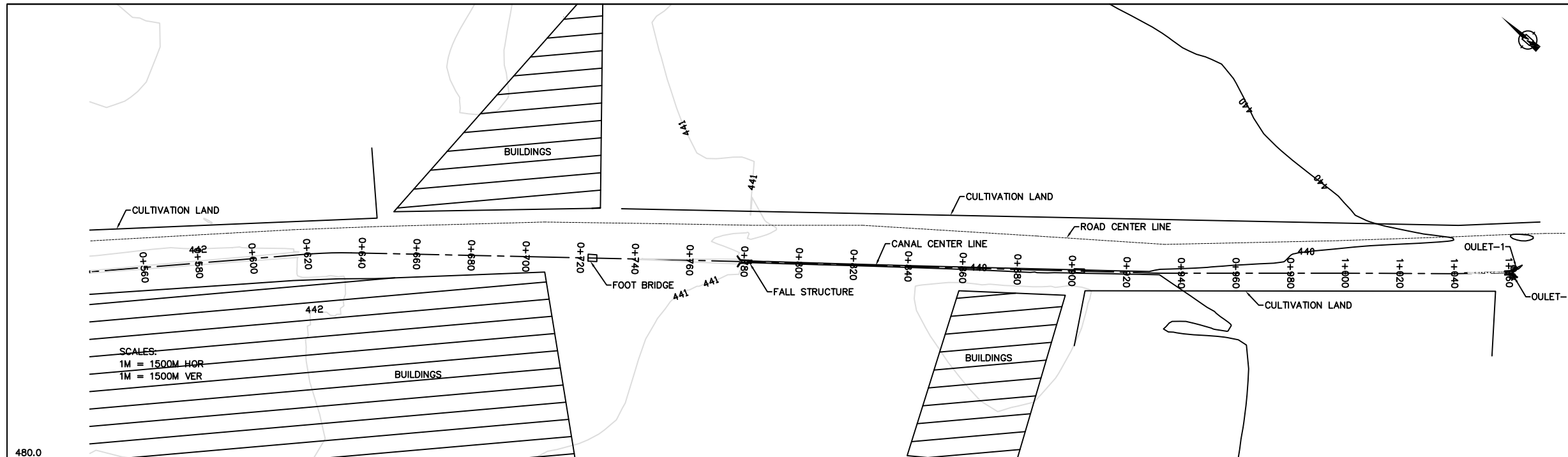
REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 ETA IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

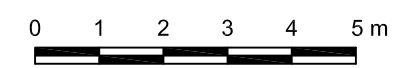
TITLE:  
 PLAN & PROFILE OF TANDA DAM  
 CHAMBAI MINOR

DRG.No:- TND-1201	SHEET:- 01 OF 02	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SLOPE %	0.40												0.20														
VELOCITY (m/s)	1.34												0.38														
BED WIDTH (m)	0.35												PARABOLA SECTION														
DISCHARGE CUMEC	0.0469												0.0469														
REMARKS	RE-LINING												DE-SILTING OF PARABOLA SECTION														
F.S.L	442.25	442.18	442.12	442.05	441.98	441.91	441.84	441.78	441.71	441.64	441.57	441.50	440.61	440.06	440.02	439.98	439.94	439.90	439.86	439.82	439.79	439.75	439.71	439.67	439.63	439.59	439.55
BED LEVEL	441.85	441.77	441.69	441.61	441.53	441.45	441.37	441.29	441.21	441.13	441.05	440.97	439.21	439.59	439.55	439.50	439.46	439.42	439.38	439.34	439.30	439.26	439.22	439.18	439.14	439.10	439.06
EXISTING BED	441.87	441.80	441.73	441.66	441.56	441.47	441.39	441.30	441.22	441.12	441.01	440.92	439.27	439.48	439.40	439.37	439.34	439.31	439.30	439.29	439.27	439.23	439.19	439.15	439.10	439.06	439.06
RD	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

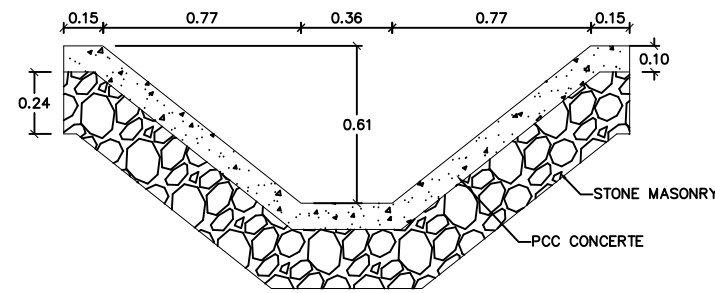
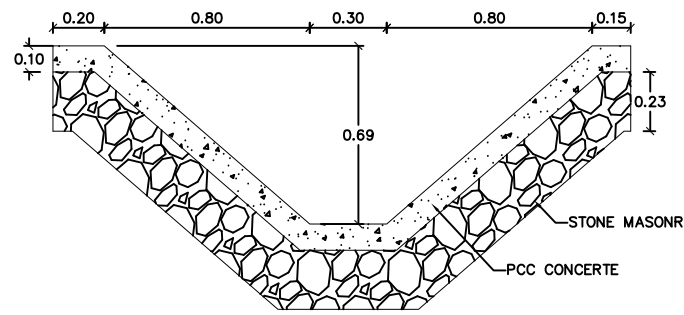
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

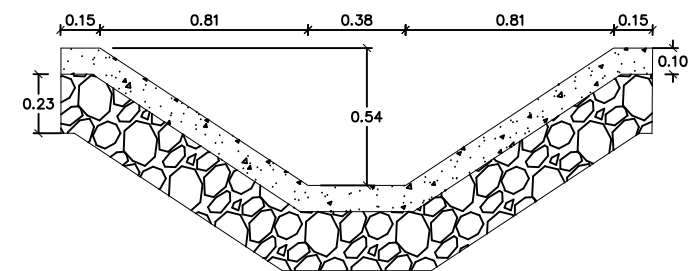
TITLE: PLAN & PROFILE OF TANDA DAM CHAMBAI MINOR

DRG.No:-	TND-I202	SHEET:-	02 OF 02	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

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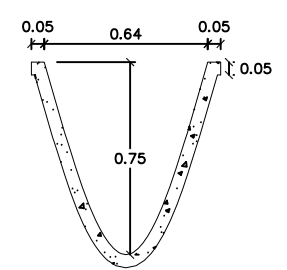


RD 0+000 TO 0+305 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (305m)

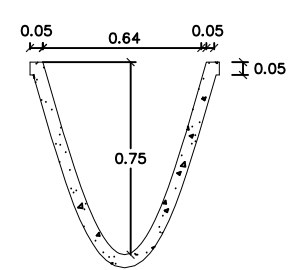


RD AT 0+773

RD 0+305 TO 0+778 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (473m)



RD AT 1+060





RD AT 0+785






SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

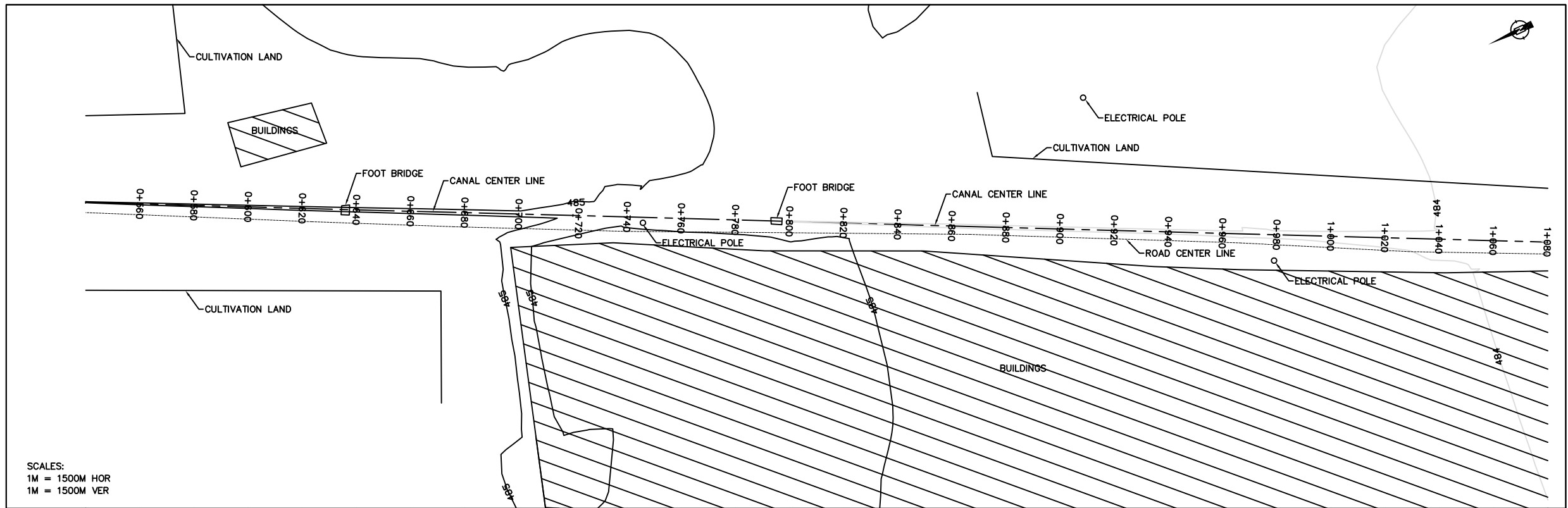
TITLE: CROSS SECTIONS OF CHAMBAI MINOR EXISTING

DRG.No:- TND-1203	SHEET:- 01 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----



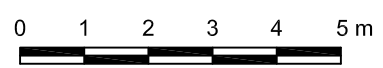


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

RD	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	
F.S.L	485.35	485.29	485.23	485.17	485.11	485.05	484.99	484.92	484.83	484.75	484.67	484.58	484.50	484.42	484.33	484.25	484.16	484.08	484.01	483.94	483.87	483.80	483.73	483.67	483.60	483.53	483.46	483.39	
BED LEVEL	484.96	484.90	484.83	484.76	484.70	484.63	484.56	484.49	484.43	484.36	484.30	484.23	484.16	484.10	484.03	483.96	483.89	483.83	483.75	483.67	483.59	483.51	483.42	483.34	483.26	483.18	483.10	483.02	
EXISTING BED	484.99	484.90	484.85	484.78	484.70	484.63	484.56	484.49	484.42	484.35	484.30	484.18	484.09	484.00	483.91	483.84	483.78	483.73	483.67	483.62	483.55	483.49	483.44	483.38	483.27	483.18	483.11	483.03	
SLOPE %			0.33							0.33																			
VELOCITY (m/s)			1.26							0.55																			
BED WIDTH (m)			0.43							0.46																			
DISCHARGE CUMEC			0.1475							0.1475																			
REMARKS			REPAIRING																										







SCALE

TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

**CAMEOS**

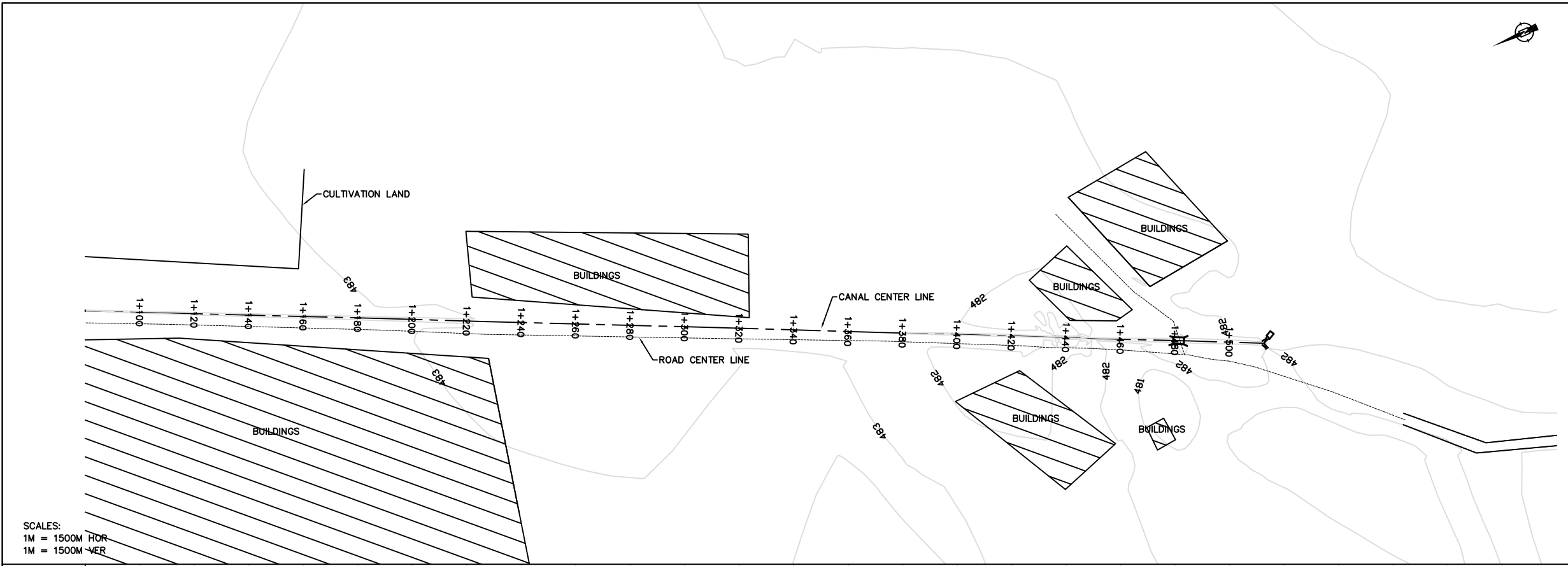
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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**FATEH KHAN**

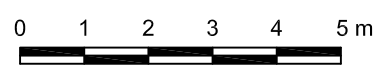
DRG.No:- TND-1302	SHEET:- 02 OF 03	SCALE	DATE
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		SUB SH.-	----

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER


RD	1+00	1+20	1+40	1+60	1+80	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440	1+460	1+480	1+500				
F.S.L	483.39	483.32	483.25	483.18	483.11	483.04	482.97	482.91	482.84	482.77	482.70	482.63	482.56	482.49	482.42	482.35	482.28	482.21	482.14	482.07	481.99	481.92	481.84	481.77	481.70	481.63	481.56	481.49	481.42	481.35
BED LEVEL	483.03	482.94	482.86	482.78	482.70	482.62	482.54	482.46	482.38	482.30	482.21	482.13	482.05	481.97	481.89	481.81	481.73	481.65	481.57	481.49	481.41	481.33	481.25	481.17	481.09	481.01	480.93	480.85	480.77	480.69
EXISTING BED	483.03	482.94	482.86	482.78	482.70	482.62	482.54	482.46	482.38	482.30	482.21	482.13	482.05	481.97	481.89	481.81	481.73	481.65	481.57	481.49	481.41	481.33	481.25	481.17	481.09	481.01	480.93	480.85	480.77	480.69
REMARKS																														






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

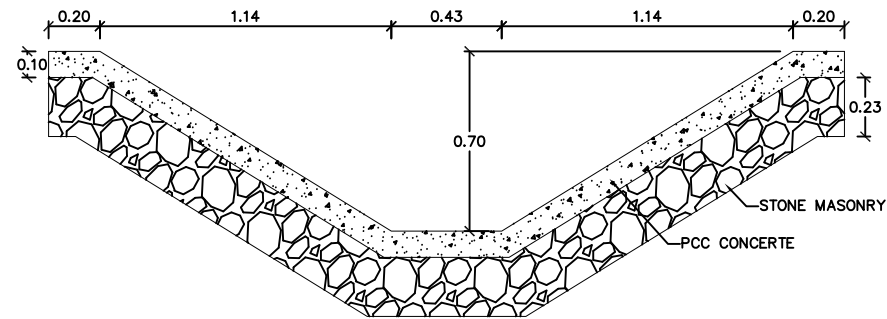
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

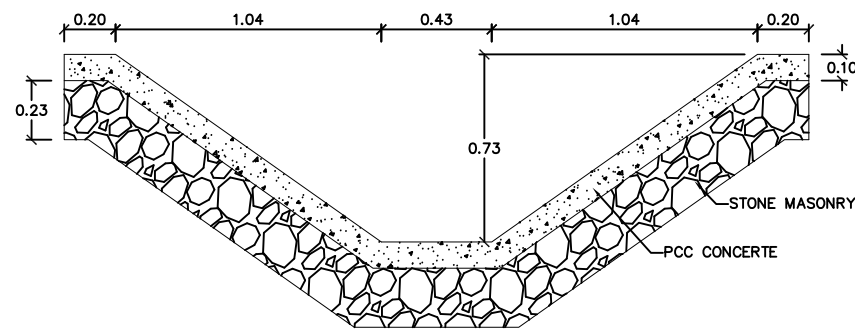
TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 FATEH KHAN**

DRG.No:-	TND-1303	SHEET:-	03 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

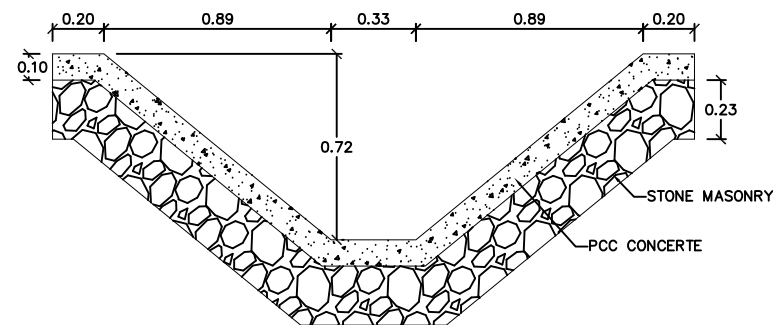
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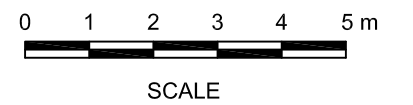
RD 0+014 TO 1+000 PROPOSED DAMAGED P.C.C PANELS  
TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (300m)



EXISTING SECTION




RD 1+000 TO 1+514 PROPOSED DAMAGED P.C.C PANELS  
TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (145m)






SCALE

**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
 **CAMEOS**

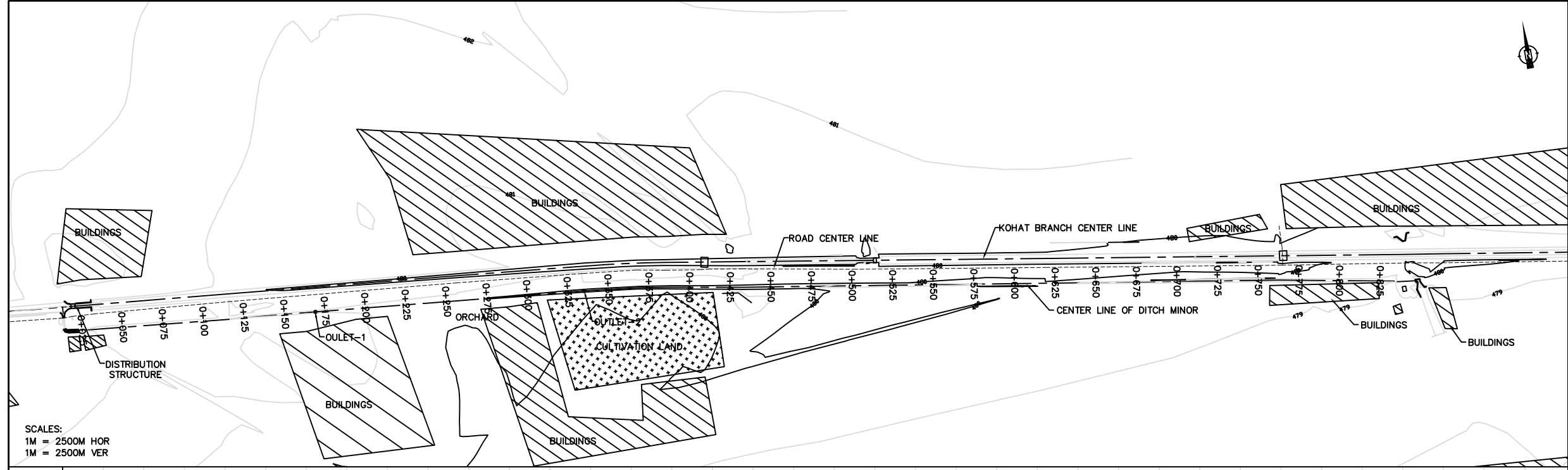
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 A Joint Venture of:  
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 **CASCADE GROUP OF  
ENGINEERING & CONSULTANTS**  
 **ETA** IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

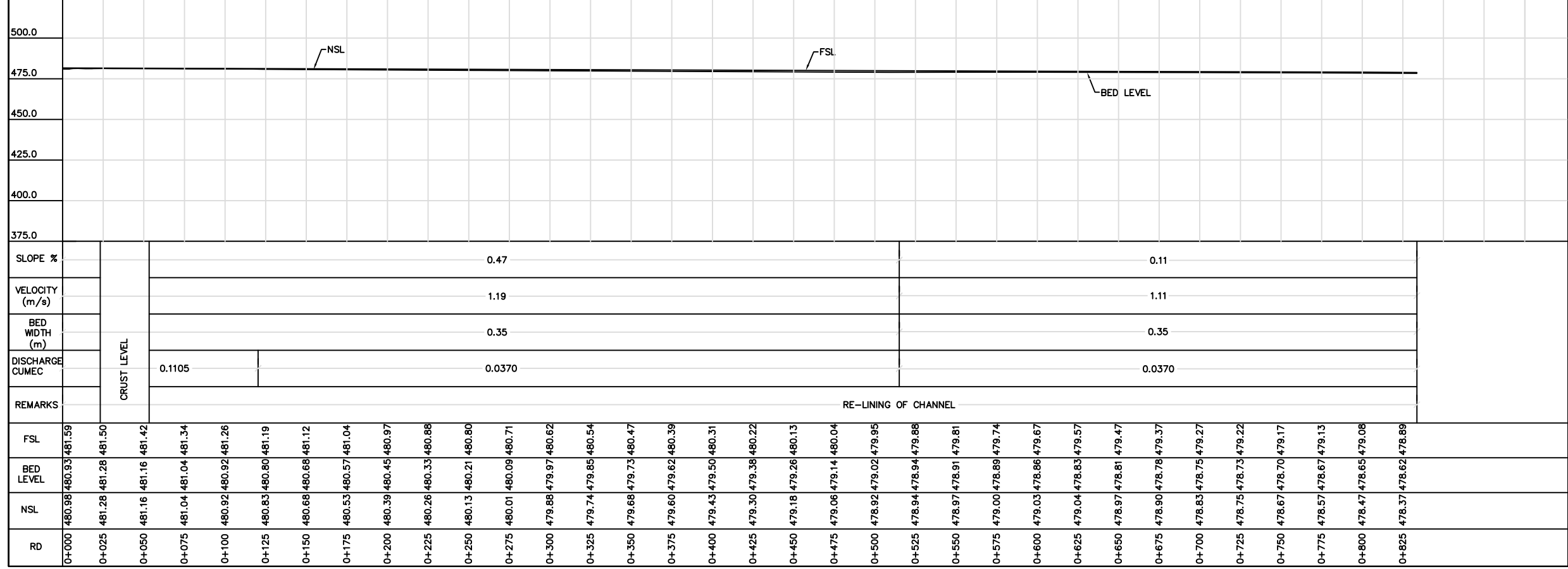
TITLE:  
**EXISTING CROSS SECTIONS  
OF FATEH KHAN BANDA**

SCALE	DATE
Shown	JANUARY 2021
DRG.No:- TND-1304	SHEET:- 01 OF 01
SUB SH.-	----

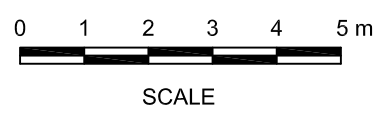
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SCALES:  
1M = 2500M HOR  
1M = 2500M VER



FSL	480.98	480.93	481.59	481.50	481.42	481.34	481.26	481.19	481.12	481.04	480.97	480.88	480.80	480.71	480.62	480.54	480.47	480.39	480.31	480.22	480.13	480.04	479.95	479.88	479.81	479.74	479.67	479.57	479.47	479.37	479.27	479.22	479.17	479.13	479.08	478.99	
BED LEVEL	480.98	481.28	481.28	481.50	481.42	481.34	481.26	481.19	481.12	481.04	480.97	480.88	480.80	480.71	480.62	480.54	480.47	480.39	480.31	480.22	480.13	480.04	479.95	479.88	479.81	479.74	479.67	479.57	479.47	479.37	479.27	479.22	479.17	479.13	479.08	478.99	
NSL	480.98	481.28	481.16	481.16	481.04	481.04	480.92	480.83	480.68	480.57	480.45	480.33	480.21	480.09	479.88	479.74	479.68	479.62	479.50	479.38	479.26	479.14	479.02	478.83	478.68	478.50	478.37	478.25	478.13	478.00	477.87	477.73	477.67	477.61	477.55	477.49	477.43
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825			



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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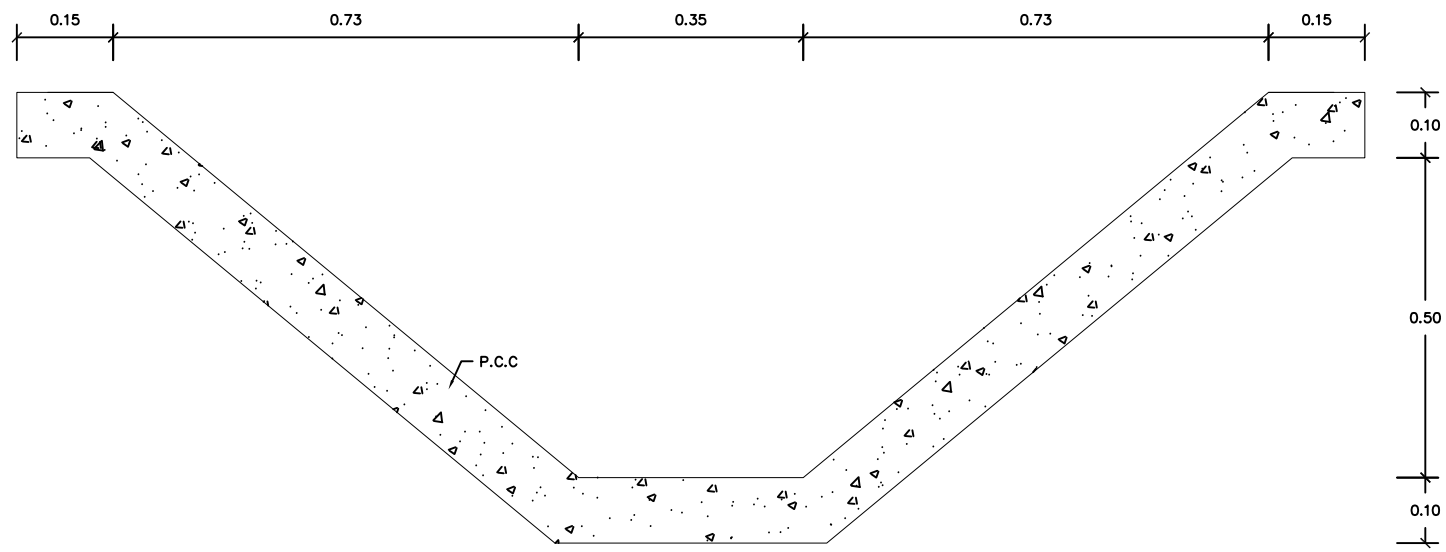
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF DITCH MINOR**

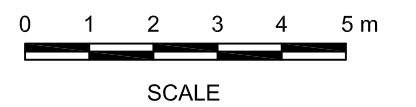
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-1401 SHEET:- 01 OF 03 SUB SH.- ----

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EXISTING CROSS SECTION



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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 IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

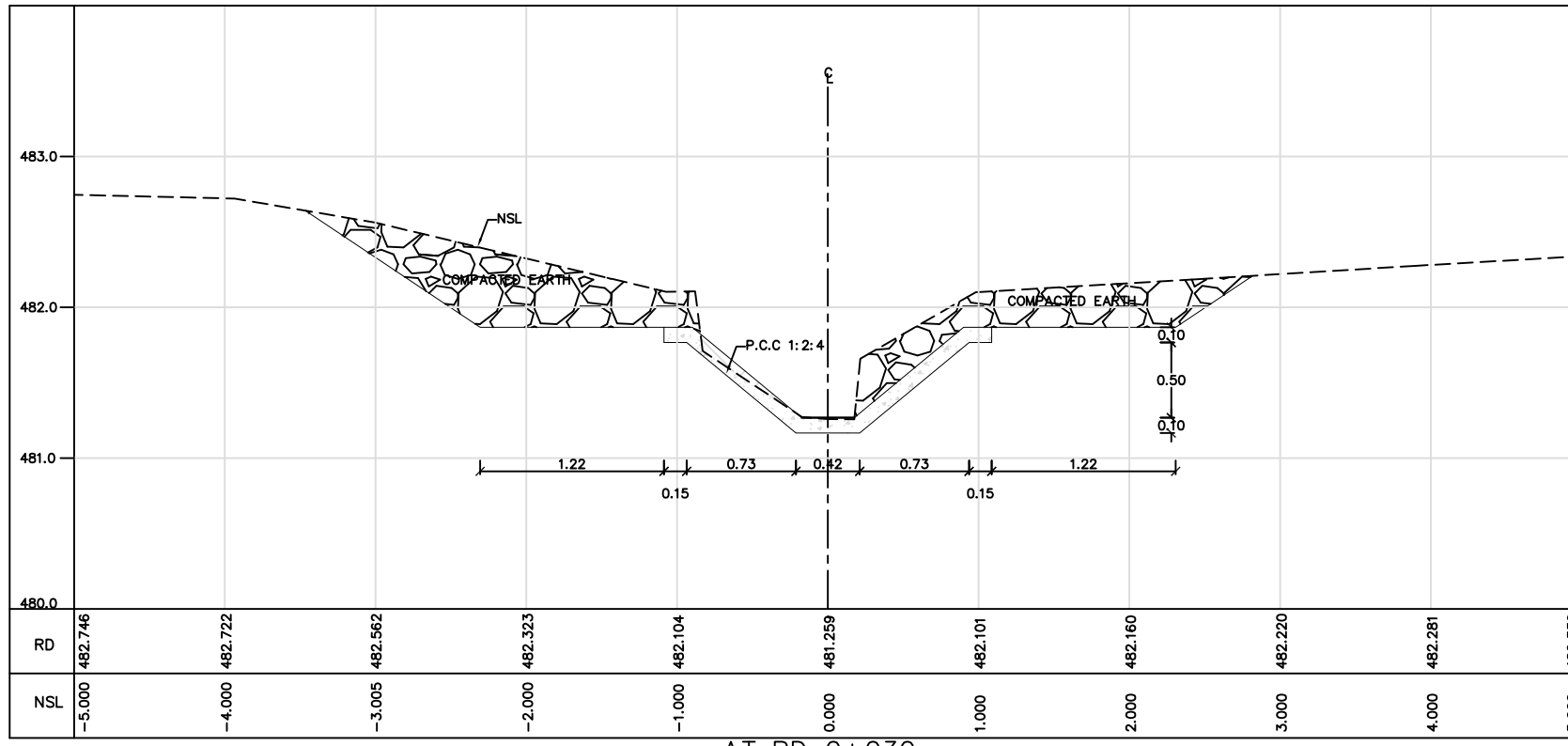
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**EXISTING CROSS SECTION  
OF DITCH MINOR**

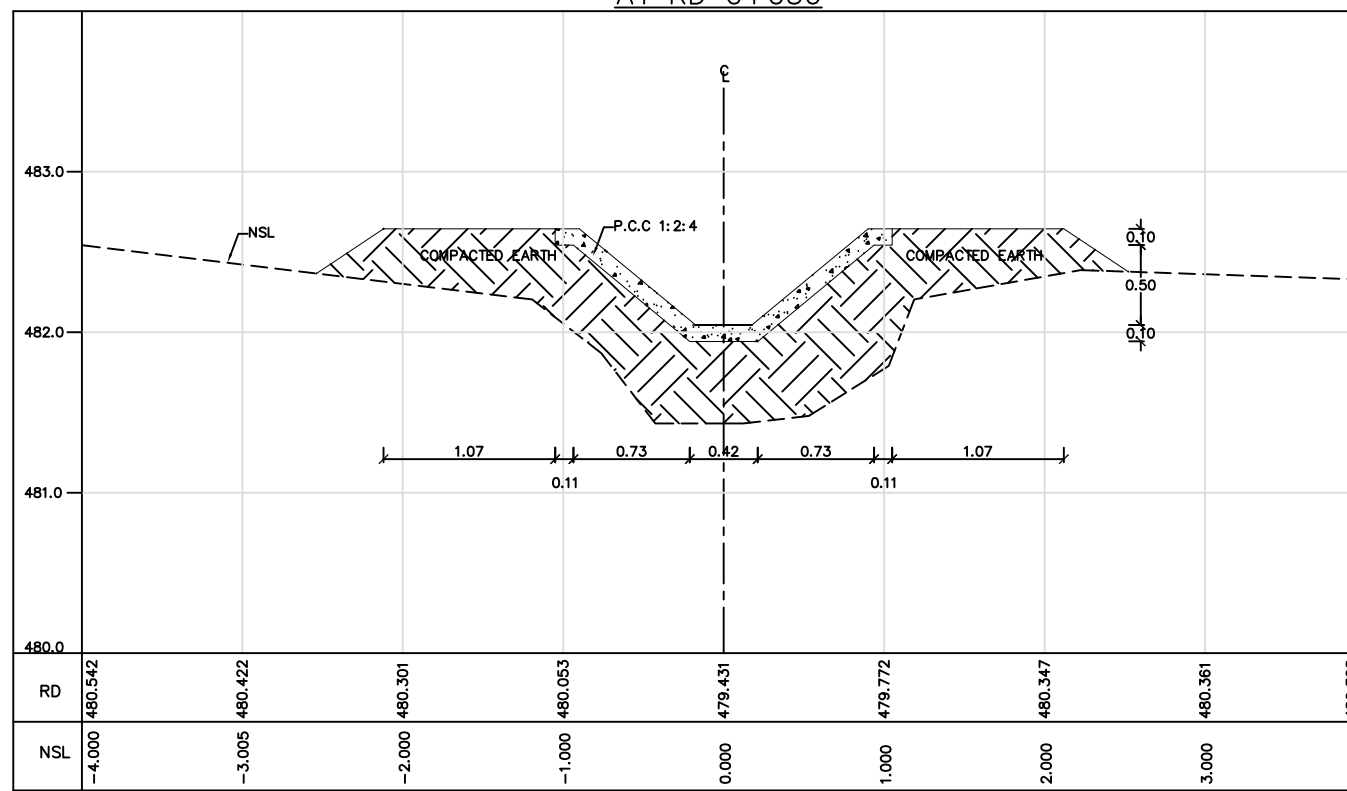
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-1402 SHEET:- 01 OF 01 SUB SH.- ----

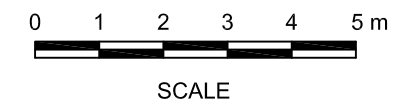
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AT RD 0+030







AT RD 0+023 TO 0+834



TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

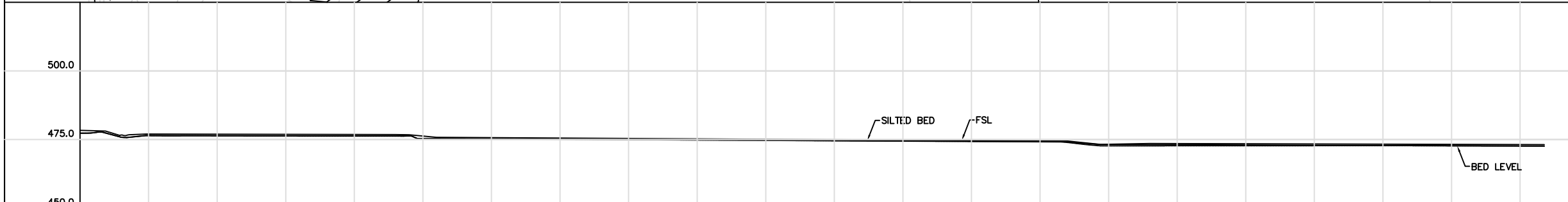
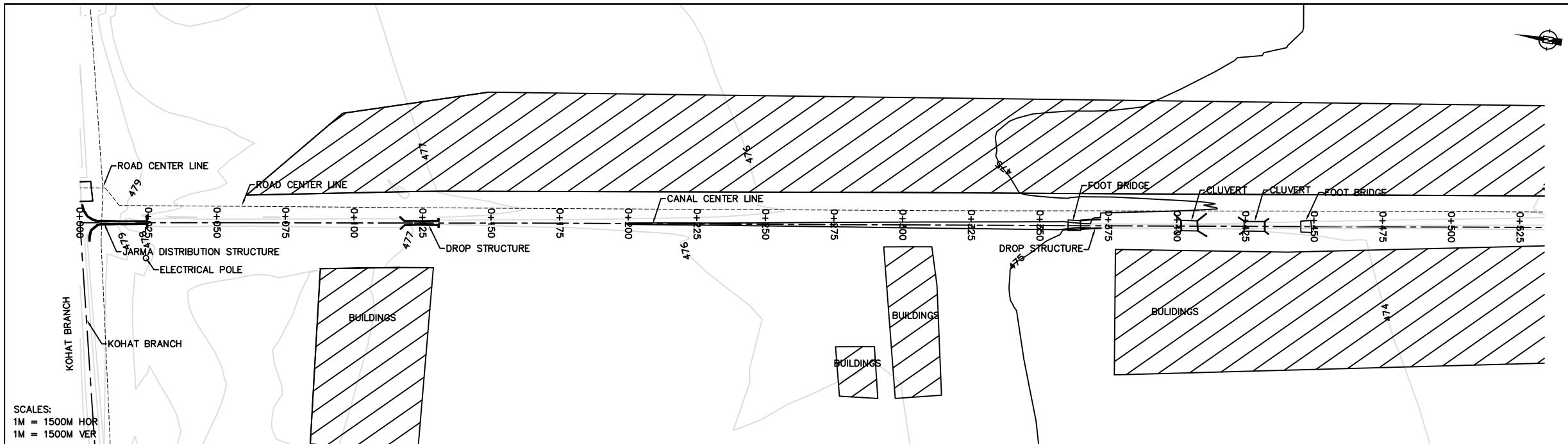
REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

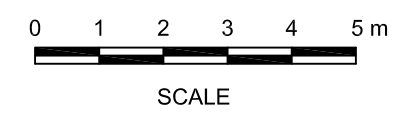
TITLE:  
**PROPOSED CROSS SECTION OF DITCH MINOR**

DRG.No:-	TND-1403	SHEET:-	01 OF 11	SUB SH.-	----
SCALE	DATE	Shown	JANUARY 2021		

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SLOPE %	0.227					0.526					0.341												
	VELOCITY (m/s)					1.36					1.69					0.66							
BED WIDTH (m)	0.5					1.3					0.7												
	DISCHARGE CUMEC					0.6148					0.6148												
REMARKS						DE-SILTING & REPAIRING																	
F.S.L	477.06	477.00	476.85	476.89	476.83	476.26	475.68	475.54	475.39	475.24	475.10	474.95	474.80	474.66	474.51	474.01	473.54	473.46	473.39	473.31	473.24	473.16	473.08
BED LEVEL	477.29	476.47	476.42	476.37	476.32	475.34	475.20	475.07	474.94	474.81	474.68	474.55	474.42	474.29	474.16	473.18	473.09	473.01	472.92	472.84	472.75	472.67	472.58
SILTED BED	477.35	476.49	476.44	476.48	476.35	475.35	475.26	475.15	475.00	474.85	474.72	474.58	474.44	474.36	474.28	473.20	473.09	473.02	472.96	472.88	472.77	472.69	472.58
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525	0+550



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

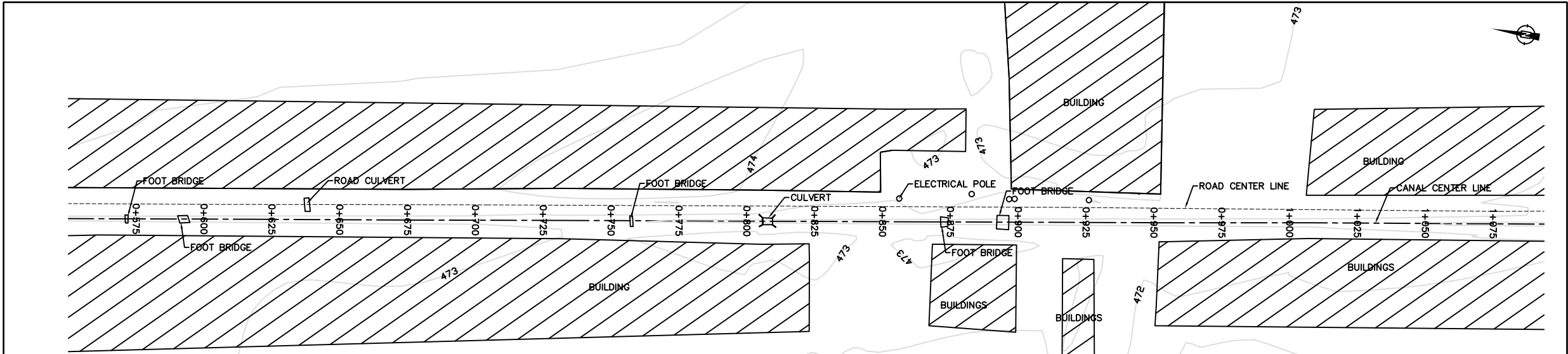
REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
**CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
**ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF JARMA DISTRY**

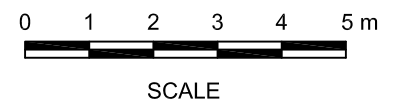
DRG.No:- TND-1501	SHEET:- 01 OF 014	SUB SH:-	SCALE	DATE
			Shown	JANUARY 2021

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

500.0																							
475.0																							
450.0																							
SLOPE %		0.341																					
VELOCITY (m/s)		1.66																					
BED WIDTH (m)		0.7																					
DISCHARGE CUMEC		0.6148																					
REMARKS		DE-SILTING & REPAIRING																					
F.S.L	473.08	473.01	472.93	472.86	472.78	472.70	472.63	472.55	472.48	472.40	472.33	472.25	472.17	472.10	472.02	471.95	471.87	471.79	471.72	471.64	471.57	471.49	471.41
BED LEVEL	472.58	472.50	472.41	472.33	472.24	472.16	472.07	471.99	471.90	471.82	471.73	471.65	471.56	471.47	471.39	471.30	471.22	471.13	471.05	470.96	470.88	470.79	470.71
SILTED BED	472.58	472.51	472.42	472.32	472.30	472.30	472.22	472.15	472.07	471.97	471.89	471.77	471.70	471.65	471.63	471.58	471.54	471.45	471.34	471.20	471.04	470.88	470.76
RD	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075	1+100



**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  <b>CAMEOS</b>	REVISED & UPDATED FOR TENDER BY: A Joint Venture of:  <b>RHC</b> REHMAN HABIB CONSULTANTS (PVT) LTD.  CASCADE GROUP OF ENGINEERING & CONSULTANTS  IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES
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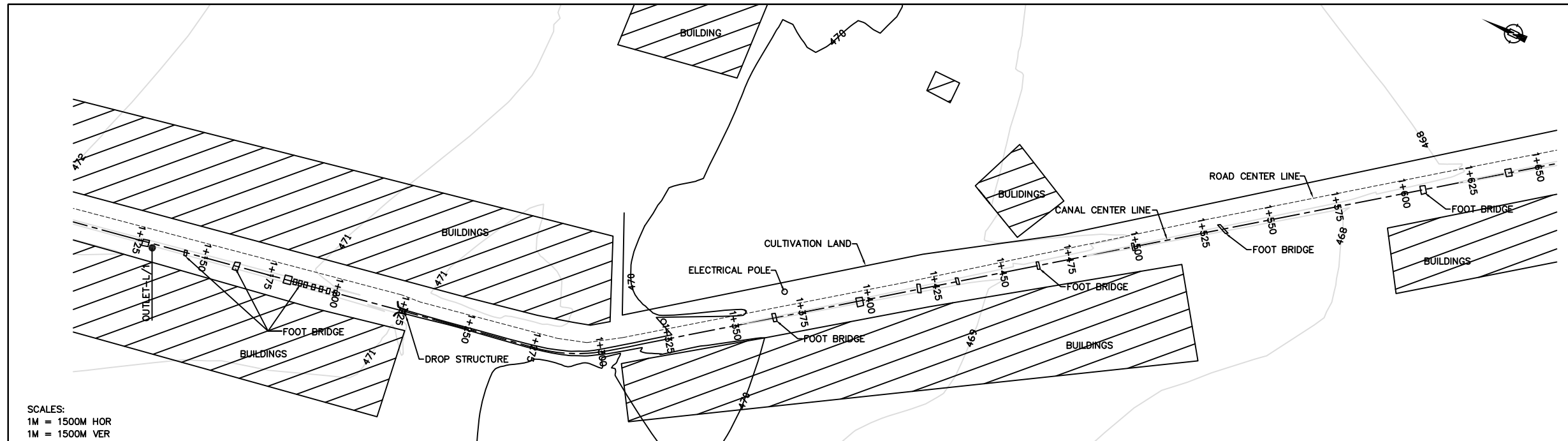
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
  
**PLAN AND PROFILE OF  
JARMA DISTRY**

DRG.No:- TND-1502	SHEET:- 02 OF 014	SCALE	DATE
		Shown	JANUARY 2021
	SUB SH.:-	----	

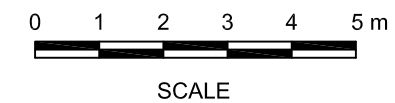


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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

500.0																														
475.0																														
450.0																														
	SLOPE %										0.341										0.774									
	VELOCITY (m/s)										1.66										1.02									
	BED WIDTH (m)										0.7										0.5									
	DISCHARGE CUMEC					0.6148					0.6038					0.6038														
	REMARKS																													
	DE-SILTING & REPAIRING																													
F.S.L	471.41	471.34	471.26	471.19	471.11	470.57	470.23	470.01	469.79	469.57	469.34	469.12	468.90	468.68	468.46	468.23	468.01	467.79	467.57	467.34	467.12	466.90	466.68							
BED LEVEL	470.71	470.62	470.54	470.45	470.37	470.43	469.76	469.56	469.37	469.18	468.98	468.79	468.60	468.40	468.21	468.02	467.82	467.63	467.44	467.24	467.05	466.85	466.66							
SILTED BED	470.76	470.65	470.58	470.46	470.37	470.44	469.84	469.72	469.46	469.21	469.04	468.84	468.65	468.46	468.27	468.06	467.86	467.67	467.50	467.34	467.17	466.96	466.76							
RD	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400	1+425	1+450	1+475	1+500	1+525	1+550	1+575	1+600	1+625	1+650							



TENDER DRAWING

CLIENT:  
KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

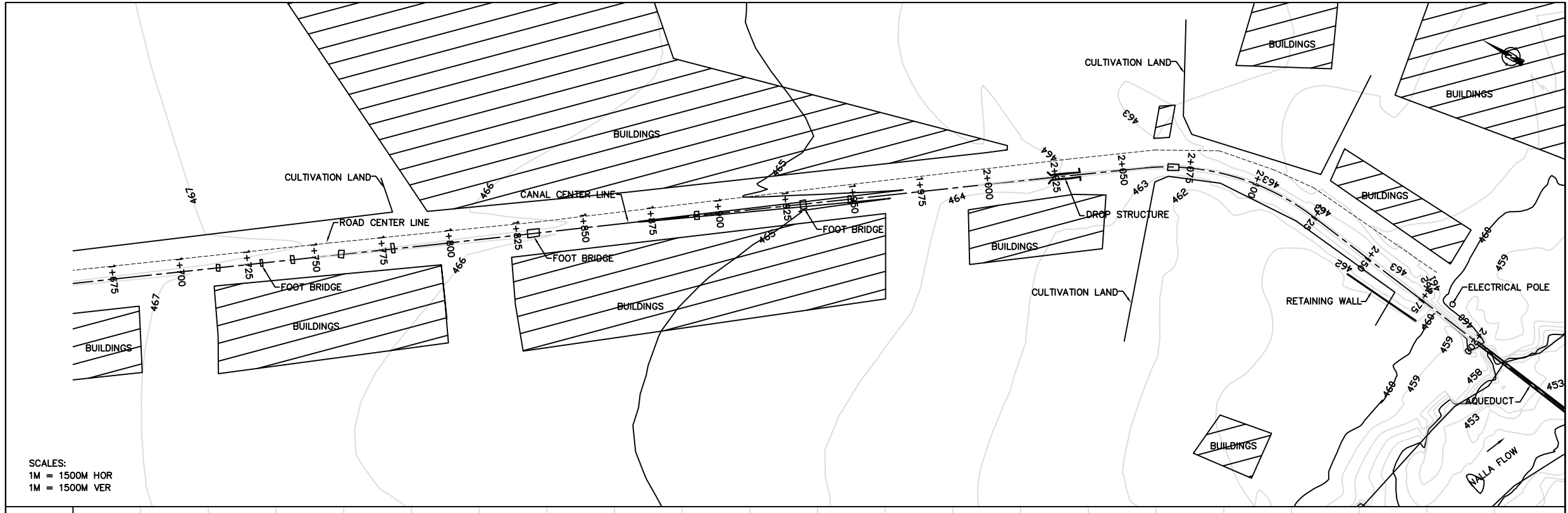
FS CONSULTANTS:  
 CAMEOS  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF JARMA DISTRY**

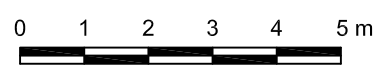
DRG.No:-	TND-1503	SHEET:-	03 OF 014	SUB SH.-	----
SCALE	DATE	Shown	JANUARY 2021		

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

475.0																				
450.0																				
425.0																				
SLOPE %	0.774										0.43					0.39				
VELOCITY (m/s)	1.75										1.7					1.55				
BED WIDTH (m)	0.4										0.6038					0.6038				
DISCHARGE CUMEC	0.6038										0.96					0.96				
REMARKS	DE-SILTING & REPAIRING																			
F.S.L	466.66	466.66	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68	466.68
BED LEVEL	466.76	466.55	466.47	466.46	466.23	466.01	465.79	465.57	465.34	465.12	464.90	464.68	464.46	464.23	464.01	463.79	463.57	463.38	463.31	463.24
SILTED BED	466.76	466.55	466.36	466.27	466.23	466.01	465.79	465.57	465.34	465.12	464.90	464.68	464.46	464.23	464.01	463.79	463.57	463.38	462.90	462.73
RD	1+650	1+675	1+700	1+725	1+750	1+775	1+800	1+825	1+850	1+875	1+900	1+925	1+950	1+975	2+000	2+025	2+050	2+075	2+100	2+125



SCALE

TENDER DRAWING

CLIENT:  
KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

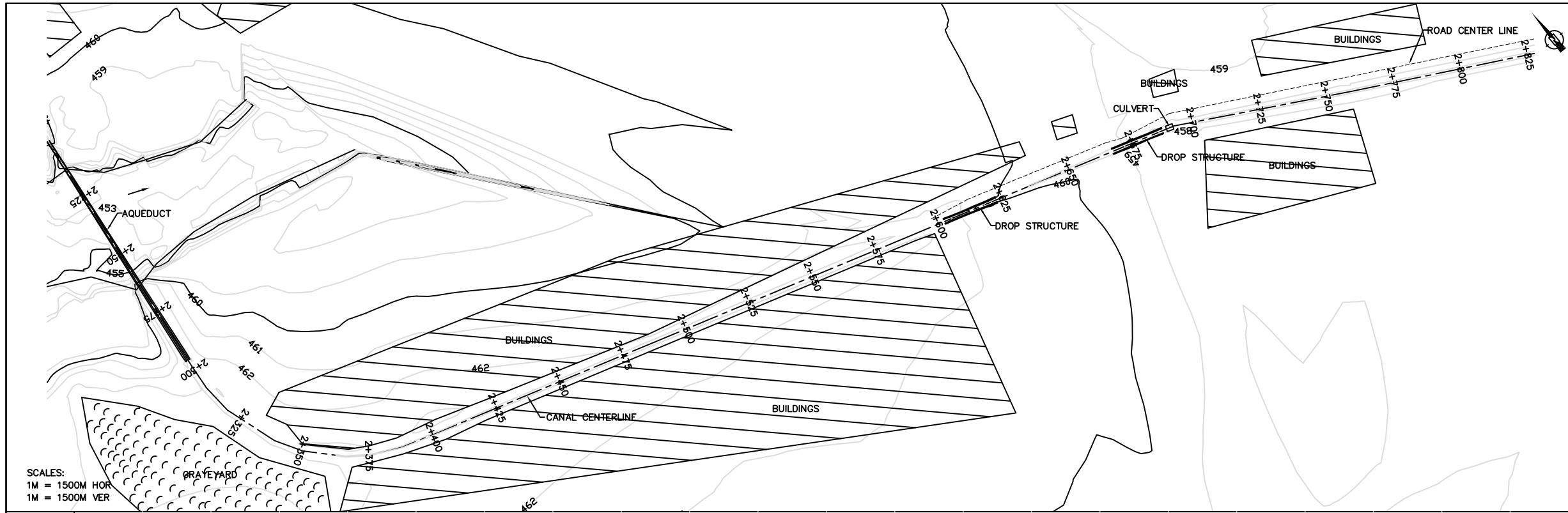
FS CONSULTANTS:  
CAMEOS  
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CASCADE GROUP OF ENGINEERING & CONSULTANTS  
ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
PLAN AND PROFILE OF  
JARMA DISTRY

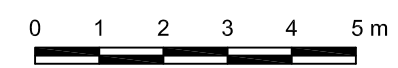
DRG.No:-	TND-1504	SHEET:-	04 OF 014	SUB SH.-	----
SCALE	DATE				
Shown	JANUARY 2021				

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

475.0																								
450.0																								
425.0																								
SLOPE %	0.19									0.19									DROP STRUCTURE (REPAIRING)	1.01	DROP STRUCTURE (REPAIRING)	0.02		
VELOCITY (m/s)	1.55									1.71									DROP STRUCTURE (REPAIRING)	1.71	DROP STRUCTURE (REPAIRING)	0.67		
BED WIDTH (m)	0.45									0.4									DROP STRUCTURE (REPAIRING)	0.4	DROP STRUCTURE (REPAIRING)	0.5		
DISCHARGE CUMEC	0.6038									0.6038									DROP STRUCTURE (REPAIRING)	0.6038	DROP STRUCTURE (REPAIRING)	0.6038		
REMARKS	DE-SILTING & REPAIRING																							
F.S.L	462.35	462.35	462.75	462.65	462.56	462.46	462.36	462.26	462.16	462.06	461.96	461.86	461.75	461.65	461.55	461.45	461.35	461.25	459.63	459.11	458.73	457.86	457.32	456.86
BED LEVEL	462.35	462.24	462.24	462.14	462.03	461.92	461.83	461.73	461.63	461.53	461.44	461.34	461.24	461.14	461.05	460.95	460.85	460.76	458.87	458.62	457.68	456.58	456.37	455.86
SILTED BED	462.35	462.24	462.24	462.14	462.03	461.92	461.83	461.73	461.63	461.53	461.44	461.34	461.24	461.14	461.05	460.95	460.85	460.76	458.87	458.62	457.68	456.58	456.37	455.86
RD	2+200	2+225	2+250	2+275	2+300	2+325	2+350	2+375	2+400	2+425	2+450	2+475	2+500	2+525	2+550	2+575	2+600	2+625	2+650	2+675	2+700	2+725	2+750	



SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

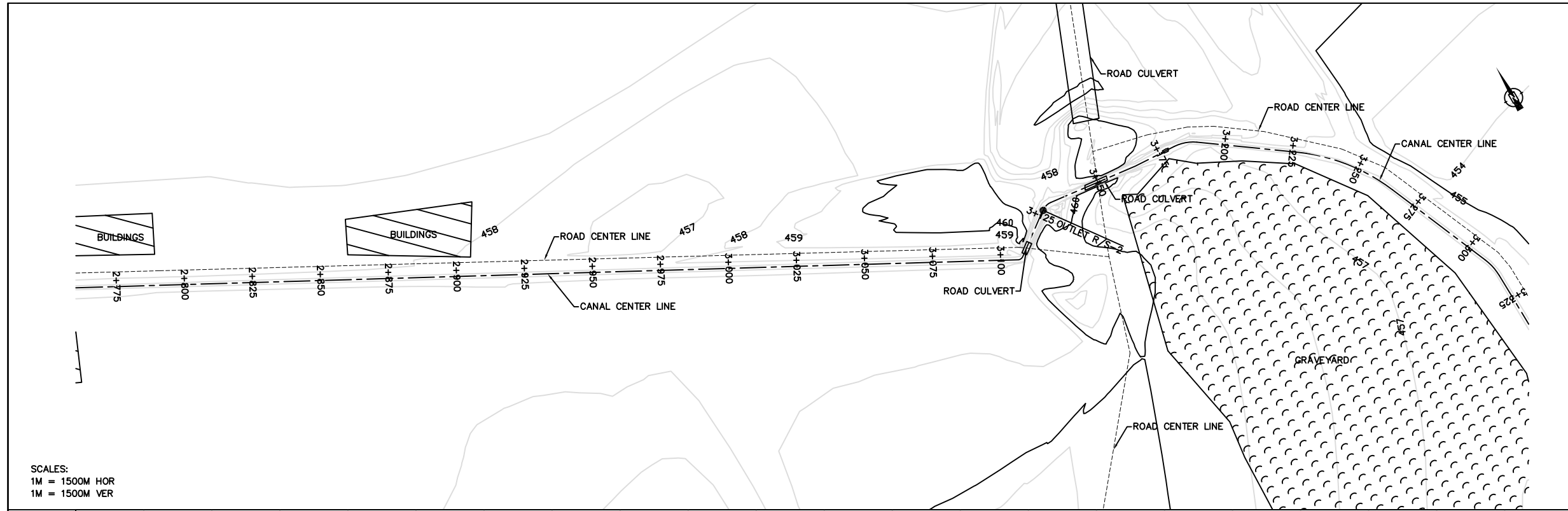
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF JARMA DISTRY**

SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-1505 SHEET:- 05 OF 014 SUB SH.- ----

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SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER

STATION	2+750	2+775	2+800	2+825	2+850	2+875	2+900	2+925	2+950	2+975	3+000	3+025	3+050	3+075	3+100	3+125	3+150	3+175	3+200	3+225	3+250	3+275	3+300		
WATER LEVEL	475.0																								
NSL	450.0																								
BED LEVEL	425.0																								
SLOPE %	0.02									0.14									0.14						
VELOCITY (m/s)	1.88									0.94									1.73						
BED WIDTH (m)	0.5									0.5									0.5						
DISCHARGE CUE	0.6038									0.5239									0.5239						
REMARKS	DE-SILTING & REPAIRING																								
F.S.L	456.86	456.82	456.79	456.76	456.72	456.69	456.65	456.60	456.57	456.55	456.52	456.50	456.46	456.43	456.39	456.33	456.28	456.23	456.19	456.14	456.09	456.04	456.00		
BED LEVEL	456.36	456.36	457.25	456.35	457.22	456.34	457.15	456.34	457.12	456.33	457.09	456.33	457.06	456.32	457.02	456.32	456.99	456.31	456.96	456.31	456.93	456.30	456.89	456.30	456.86
SILTED BED	456.86	456.82	456.79	456.76	456.72	456.69	456.65	456.60	456.57	456.55	456.52	456.50	456.46	456.43	456.39	456.33	456.28	456.23	456.19	456.14	456.09	456.04	456.00	455.98	
RD	2+750	2+775	2+800	2+825	2+850	2+875	2+900	2+925	2+950	2+975	3+000	3+025	3+050	3+075	3+100	3+125	3+150	3+175	3+200	3+225	3+250	3+275	3+300		



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

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 A Joint Venture of:  
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 IN ASSOCIATION WITH:  
**ETA** ENGINEERING & TECHNICAL ASSOCIATES

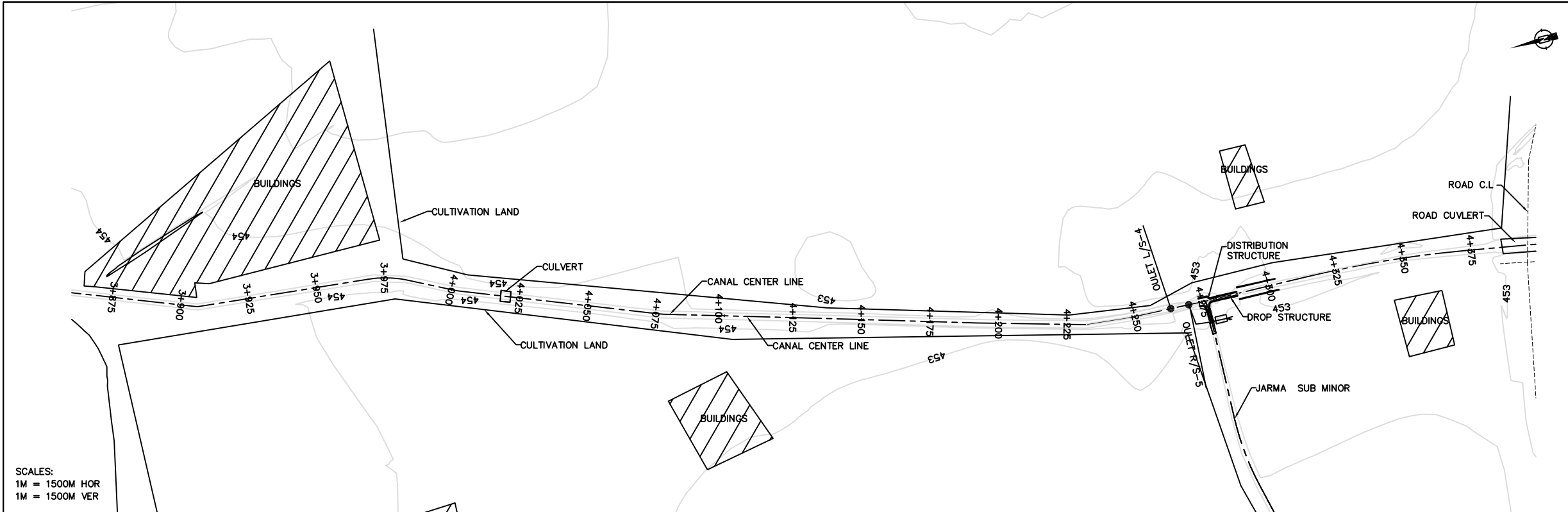
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION OF  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PLAN AND PROFILE OF  
 JARMA DISTRY**

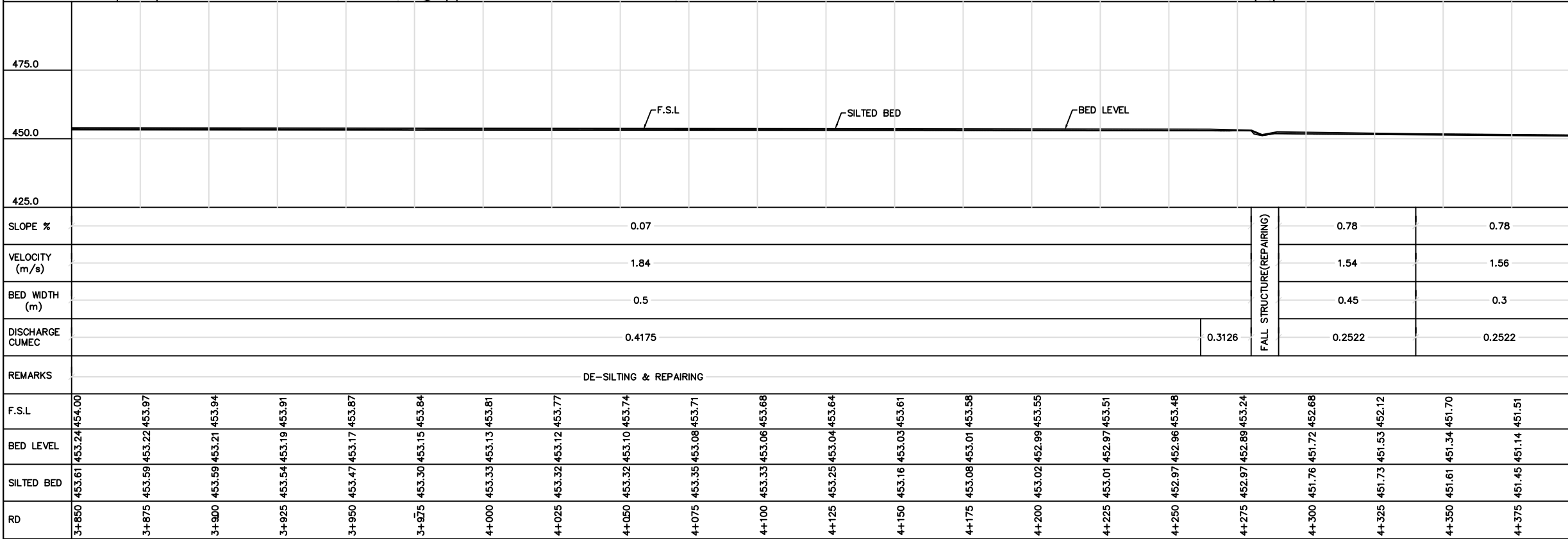
SCALE	DATE
Shown	JANUARY/2021



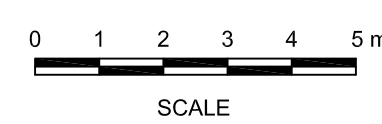
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



RD	F.S.L.	SILTED BED	BED LEVEL	SLOPE %	VELOCITY (m/s)	BED WIDTH (m)	DISCHARGE CUMEC	REMARKS	VELOCITY (m/s)	BED WIDTH (m)	DISCHARGE CUMEC
3+850	453.24	453.61	454.00	0.07	1.84	0.5	0.4175	DE-SILTING & REPAIRING	1.54	0.45	0.3126
3+875	453.22	453.59	453.97								
3+900	453.21	453.59	453.94	0.78	0.3	0.2522	FALL STRUCTURE(REPAIRING)	1.56	0.3	0.2522	
3+925	453.19	453.54	453.91								
3+950	453.17	453.47	453.87								
3+975	453.15	453.30	453.84								
4+000	453.13	453.33	453.81								
4+025	453.12	453.32	453.77								
4+050	453.10	453.32	453.74								
4+075	453.08	453.35	453.71								
4+100	453.06	453.33	453.68								
4+125	453.04	453.25	453.64								
4+150	453.03	453.16	453.61								
4+175	453.01	453.08	453.58								
4+200	452.99	453.02	453.55								
4+225	452.97	453.01	453.51								
4+250	452.96	452.97	453.48								
4+275	452.89	452.97	453.24								
4+300	451.72	451.76	452.68								
4+325	451.53	451.73	452.12								
4+350	451.34	451.61	451.70								
4+375	451.14	451.45	451.51								
4+400	450.95	451.26	451.32								



**TENDER DRAWING**

CLIENT:  
KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
CAMEOS

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

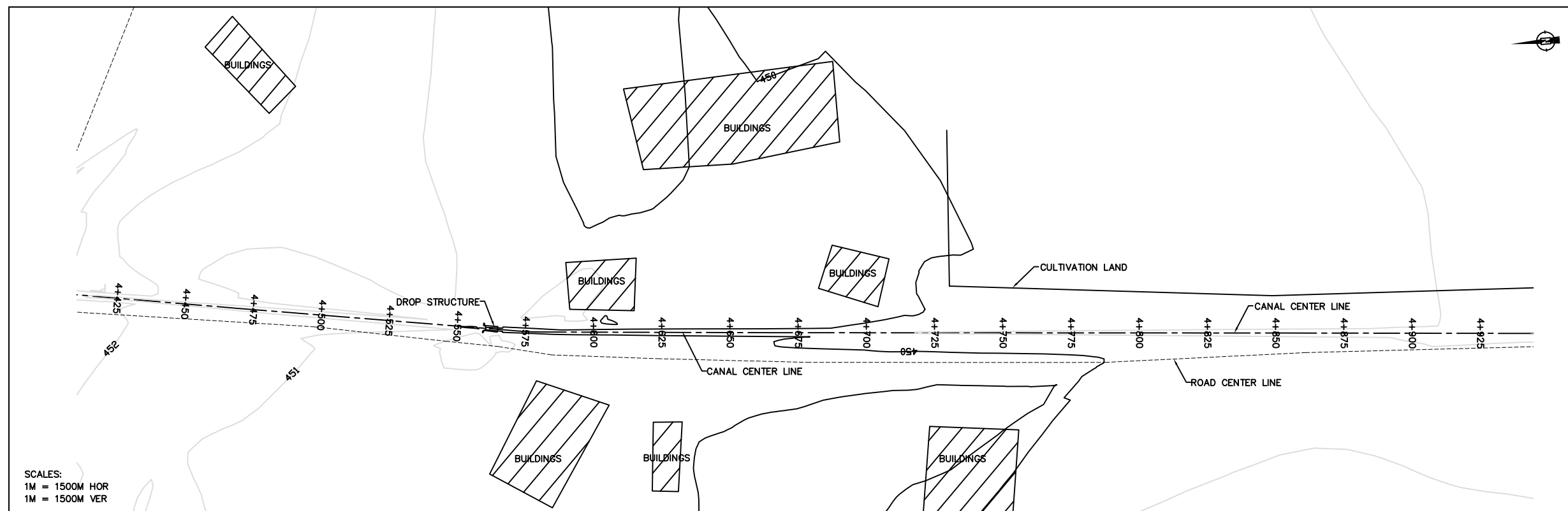
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF JARMA DISTRY**

SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-1508 SHEET:- 08 OF 014 SUB SH,- ----

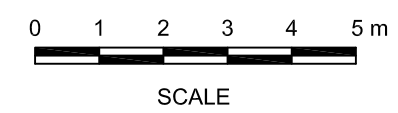
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

	475.0																									
	450.0																									
	425.0																									
SLOPE %				0.78																				0.472		
VELOCITY (m/s)				1.56																				1.56		
BED WIDTH (m)				0.3																				0.3		
DISCHARGE CUMEC				0.2522																				0.2522		
REMARKS																								DE-SILTING & REPAIRING		
F.S.L	451.32	451.13	450.94	450.75	450.56	450.37	450.18	449.83	449.67	449.55	449.43	449.31	449.19	449.07	448.96	448.84	448.72	448.60	448.48	448.36	448.25	448.13	448.01	447.89	447.77	447.65
BED LEVEL	451.26	450.95	450.75	450.56	450.36	450.17	449.78	449.36	449.25	449.13	449.01	448.89	448.77	448.66	448.54	448.42	448.30	448.18	448.07	447.95	447.83	447.71	447.59	447.47	447.35	447.23
SILTED BED	451.26	450.89	450.72	450.50	450.33	450.17	449.82	449.36	449.25	449.13	449.01	448.89	448.77	448.66	448.54	448.42	448.30	448.18	448.07	447.95	447.83	447.71	447.59	447.47	447.35	447.23
RD	4+400	4+425	4+450	4+475	4+500	4+525	4+550	4+575	4+600	4+625	4+650	4+675	4+700	4+725	4+750	4+775	4+800	4+825	4+850	4+875	4+900	4+925	4+950			

SILTED BED - BED LEVEL - FSL



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

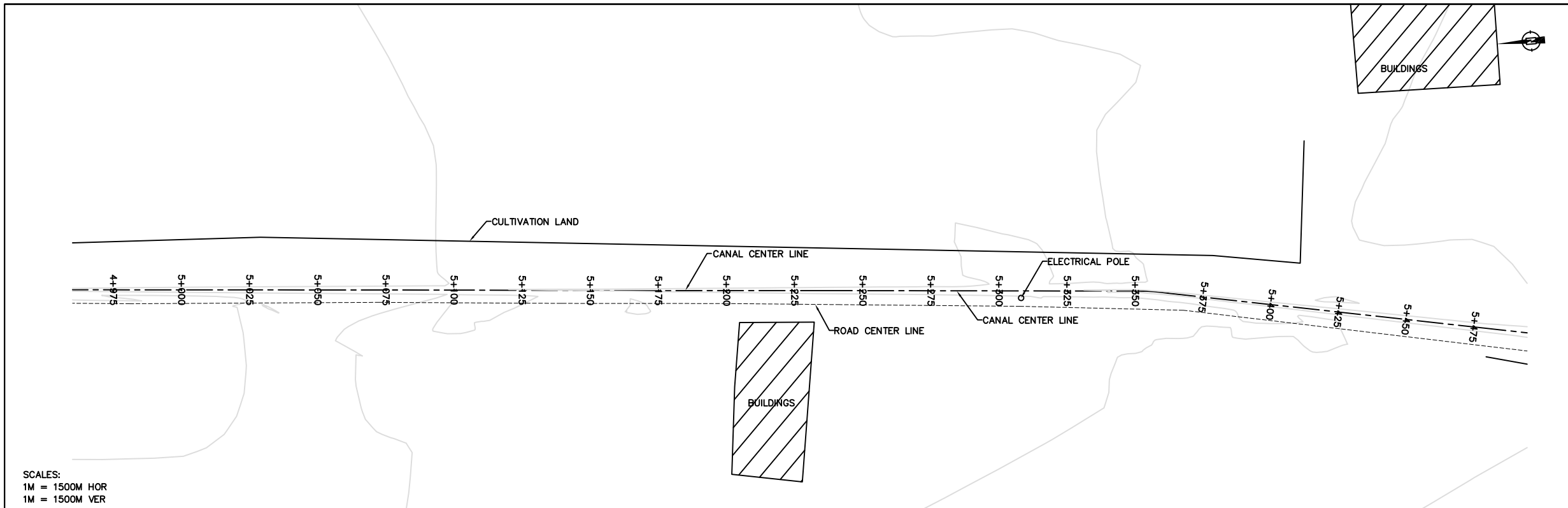
REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
**CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
IN ASSOCIATION WITH:  
**ETA** ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF JARMA DISTRY**

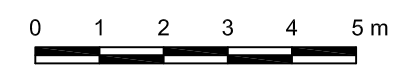
SCALE	DATE
Shown	JANUARY 2020

DRG.No:- TND-1509 SHEET:- 09 OF 014 SUB SH.- ----



SCALES:  
1M = 1500M HOR  
1M = 1500M VER

RD	4+950	4+975	5+000	5+025	5+050	5+075	5+100	5+125	5+150	5+175	5+200	5+225	5+250	5+275	5+300	5+325	5+350	5+375	5+400	5+425	5+450	5+475	5+500
F.S.L	448.01	447.89	447.77	447.65	447.54	447.42	447.30	447.18	447.06	446.94	446.82	446.71	446.59	446.47	446.35	446.23	446.11	445.99	445.88	445.76	445.64	445.52	445.40
BED LEVEL	447.59	447.48	447.36	447.24	447.12	447.00	446.88	446.77	446.65	446.53	446.41	446.29	446.18	446.06	445.94	445.82	445.70	445.59	445.47	445.35	445.23	445.11	445.00
SILTED BED	447.97	447.78	447.59	447.41	447.31	447.21	447.13	447.07	446.97	446.82	446.63	446.50	446.38	446.28	446.18	446.06	445.98	445.84	445.69	445.55	445.43	445.32	445.12
REMARKS	DE-SILTING & REPAIRING																						
DISCHARGE CUMEC	0.2522																						
BED WIDTH (m)	0.3																						
VELOCITY (m/s)	1.56																						
SLOPE %	0.472																						
425.0	SILTED BED																						
450.0	BED LEVEL																						
475.0	F.S.L																						



SCALE

TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
**RHC REHMAN HABIB CONSULTANTS (PVT.) LTD.**  
**ETA ENGINEERING & TECHNICAL ASSOCIATES**  
CASCADE GROUP OF ENGINEERING & CONSULTANTS

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

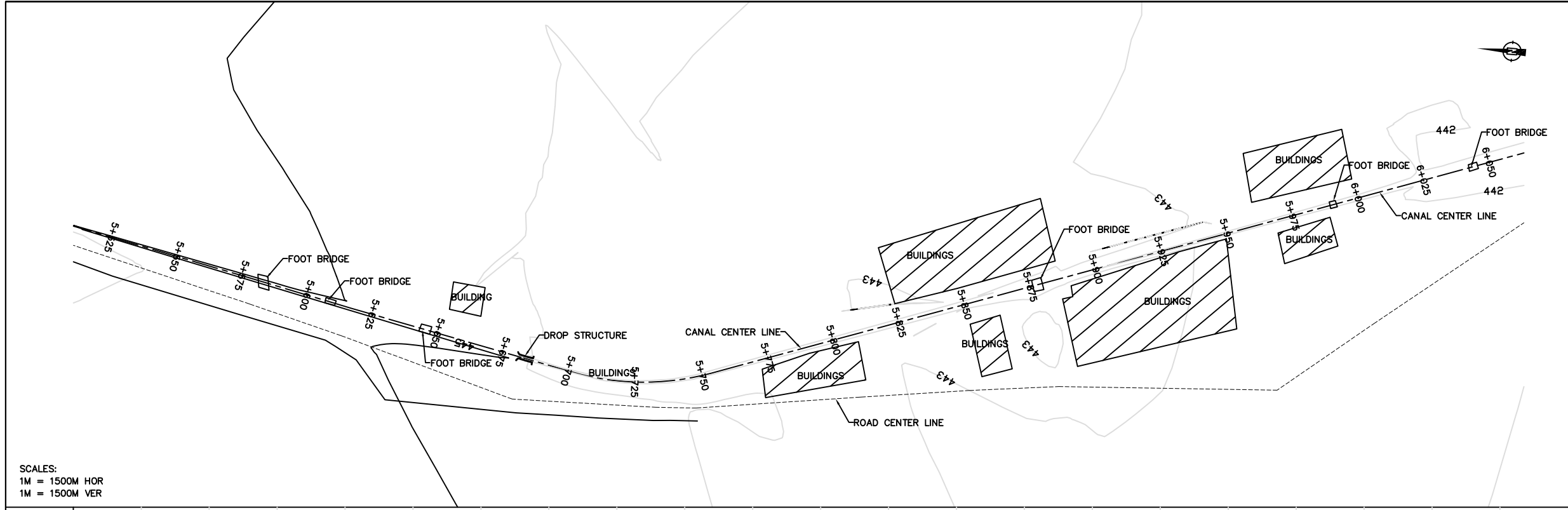
TITLE:  
**PLAN AND PROFILE OF JARMA DISTRY**

DRG.No:- TND-1510	SHEET:- 10 OF 014	SUB SH:- ----
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SCALE	DATE
Shown	JANUARY 2021



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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

	SILTED BED																		BED LEVEL																		F.S.L																					
SLOPE %	0.472																																				0.526																					
VELOCITY (m/s)	1.56																																				1.68																					
BED WIDTH (m)	0.3																																				0.2																					
DISCHARGE CUMEC	0.2522																																				0.2522																					
REMARKS																			DROP STRUCTURE (REPAIRING)																		DE-SILTING & REPAIRING																					
F.S.L	445.12	445.00	445.40	445.29	444.89	444.88	444.29	444.76	444.17	444.69	444.64	444.05	444.93	444.52	444.40	444.81	444.69	444.27	444.81	443.23	442.77	442.67	443.10	442.69	442.54	442.96	442.83	442.70	442.57	442.36	442.02	442.44	442.30	442.20	441.88	442.30	442.03	441.75	442.17	441.86	441.62	442.04	441.70	441.49	441.91	441.78	441.63	441.36	441.78	441.55	441.23	441.65	441.47	441.09	441.51	441.32	440.96	441.38
BED LEVEL	445.12	445.00	445.40	445.29	444.89	444.88	444.29	444.76	444.17	444.69	444.64	444.05	444.93	444.52	444.40	444.81	444.69	444.27	444.81	443.23	442.77	442.67	443.10	442.69	442.54	442.96	442.83	442.70	442.57	442.36	442.02	442.44	442.30	442.20	441.88	442.30	442.03	441.75	442.17	441.86	441.62	442.04	441.70	441.49	441.91	441.78	441.63	441.36	441.78	441.55	441.23	441.65	441.47	441.09	441.51	441.32	440.96	441.38
SILTED BED	445.12	445.00	445.40	445.29	444.89	444.88	444.29	444.76	444.17	444.69	444.64	444.05	444.93	444.52	444.40	444.81	444.69	444.27	444.81	443.23	442.77	442.67	443.10	442.69	442.54	442.96	442.83	442.70	442.57	442.36	442.02	442.44	442.30	442.20	441.88	442.30	442.03	441.75	442.17	441.86	441.62	442.04	441.70	441.49	441.91	441.78	441.63	441.36	441.78	441.55	441.23	441.65	441.47	441.09	441.51	441.32	440.96	441.38
RD	5+500	5+525	5+550	5+575	5+600	5+625	5+650	5+675	5+700	5+725	5+750	5+775	5+800	5+825	5+850	5+875	5+900	5+925	5+950	5+975	6+000	6+025	6+050																																			



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

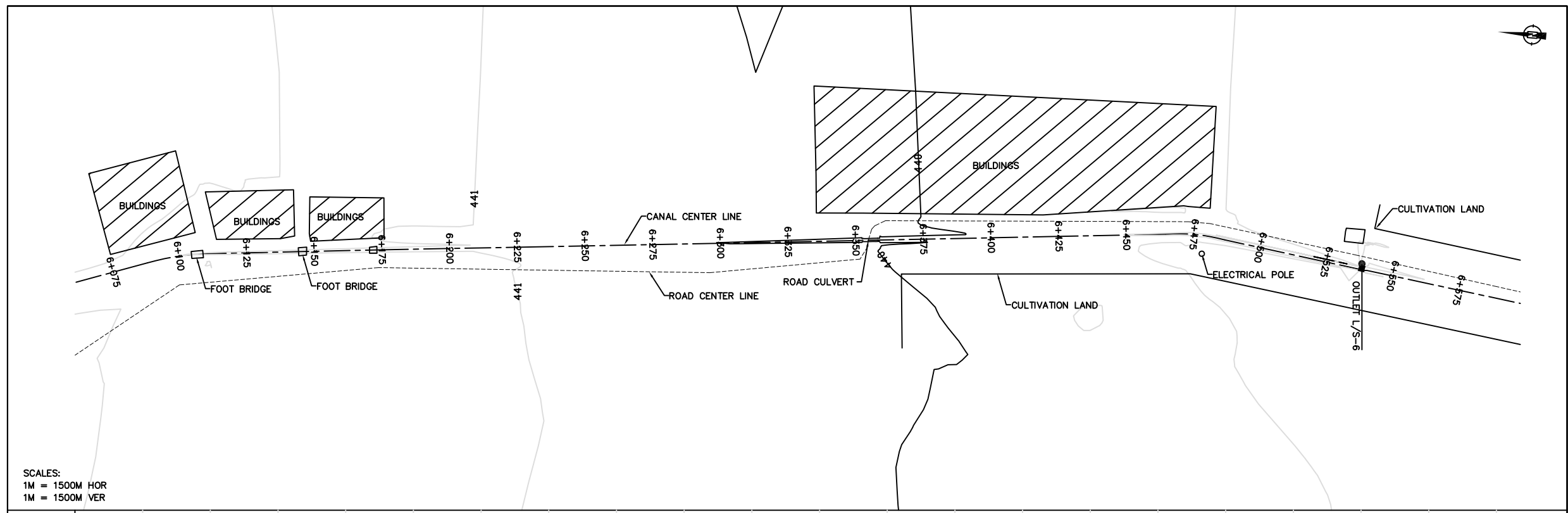
REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS. IN ASSOCIATION WITH: ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN AND PROFILE OF JARMA DISTRY

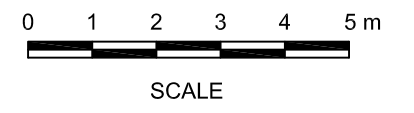
DRG.No:-	TND-1511	SHEET:-	11 OF 014	SUB SH.-	----
SCALE	DATE	Shown	JANUARY 2021		

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER

450.0																							
425.0	SILTED BED																						
400.0	BED LEVEL																						
	FSL																						
SLOPE %	0.526																						
VELOCITY (m/s)	1.68																						
BED WIDTH (m)	0.2																						
DISCHARGE CUMEC	0.2522																						
DISCHARGE CUMEC	0.1893																						
REMARKS	DE-SILTING & REPAIRING																						
F.S.L	441.38	441.25	441.12	440.99	440.86	440.72	440.59	440.46	440.33	440.20	440.06	439.93	439.80	439.67	439.54	439.41	439.27	439.14	439.01	438.88	438.75	438.62	438.48
BED LEVEL	440.96	440.83	440.70	440.57	440.44	440.30	440.17	440.04	439.91	439.78	439.65	439.52	439.38	439.25	439.12	438.99	438.86	438.73	438.59	438.46	438.33	438.20	438.07
SILTED BED	441.32	441.18	441.01	440.90	440.75	440.64	440.55	440.42	440.29	440.14	440.00	439.91	439.82	439.66	439.54	439.41	439.27	439.14	439.01	438.86	438.75	438.62	438.48
RD	6+050	6+075	6+100	6+125	6+150	6+175	6+200	6+225	6+250	6+275	6+300	6+325	6+350	6+375	6+400	6+425	6+450	6+475	6+500	6+525	6+550	6+575	6+600



TENDER DRAWING

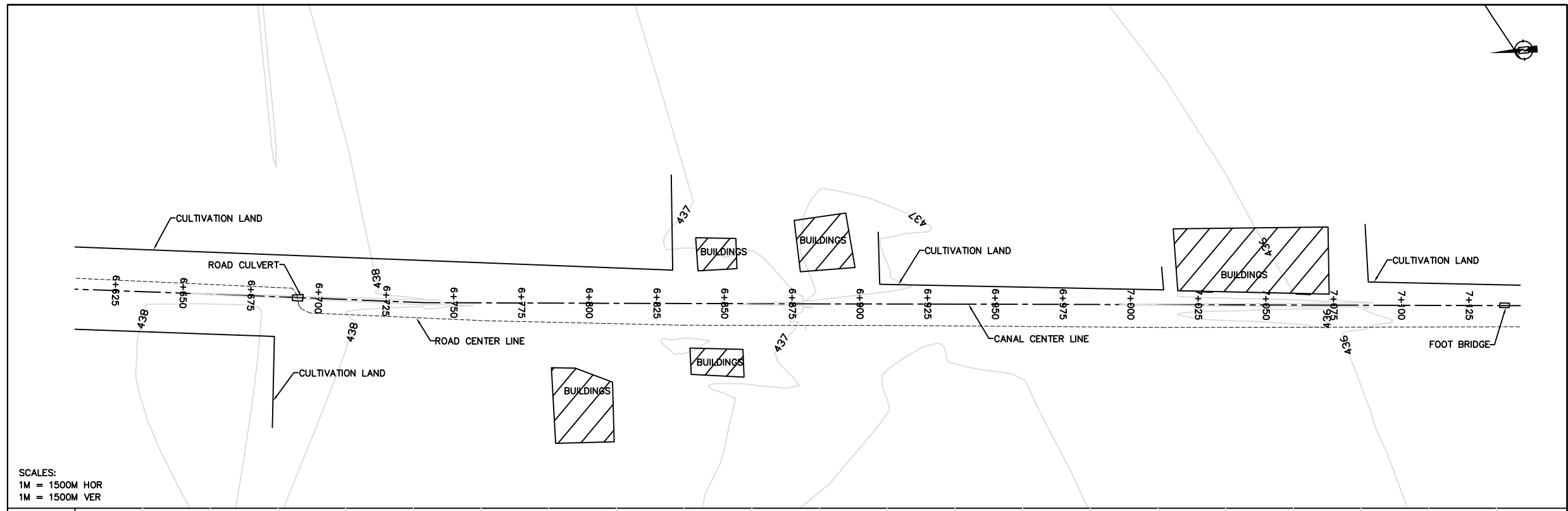
CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS, RHC, CASCADE GROUP OF ENGINEERING & CONSULTANTS, ETA

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

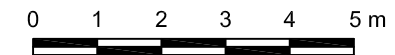
TITLE: PLAN AND PROFILE OF JARMA DISTRY

SCALE	DATE
Shown	JANUARY 2021



SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER





450.0																							
	SILTED BED																						
425.0	FSL																						
	BED LEVEL																						
400.0																							
SLOPE %	0.526																						
VELOCITY (m/s)	1.68																						
BED WIDTH (m)	0.2																						
DISCHARGE CUMEC	0.1893																						
REMARKS	DE-SILTING & REPAIRING																						
F.S.L	6+600	6+625	6+650	6+675	6+700	6+725	6+750	6+775	6+800	6+825	6+850	6+875	6+900	6+925	6+950	6+975	7+000	7+025	7+050	7+075	7+100	7+125	7+150
BED LEVEL	438.29	438.16	438.02	437.89	437.81	437.70	437.59	437.48	437.34	437.20	437.05	436.90	436.47	436.40	436.28	436.13	435.98	435.85	435.76	435.66	435.53	435.39	435.28
SILTED BED	438.07	437.94	437.80	437.67	437.54	437.41	437.28	437.15	437.01	436.88	436.75	436.62	436.49	436.36	436.23	436.09	435.96	435.83	435.70	435.57	435.44	435.30	435.17
RD	438.48	438.35	438.22	438.09	437.96	437.82	437.68	437.56	437.43	437.30	437.17	437.03	436.90	436.77	436.64	436.51	436.37	436.24	436.11	435.98	435.85	435.72	435.58



SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS: 	REVISED & UPDATED FOR TENDER BY: A Joint Venture of:  REHMAN HABIB CONSULTANTS (PVT) LTD.  CASCADE GROUP OF ENGINEERING & CONSULTANTS  IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES
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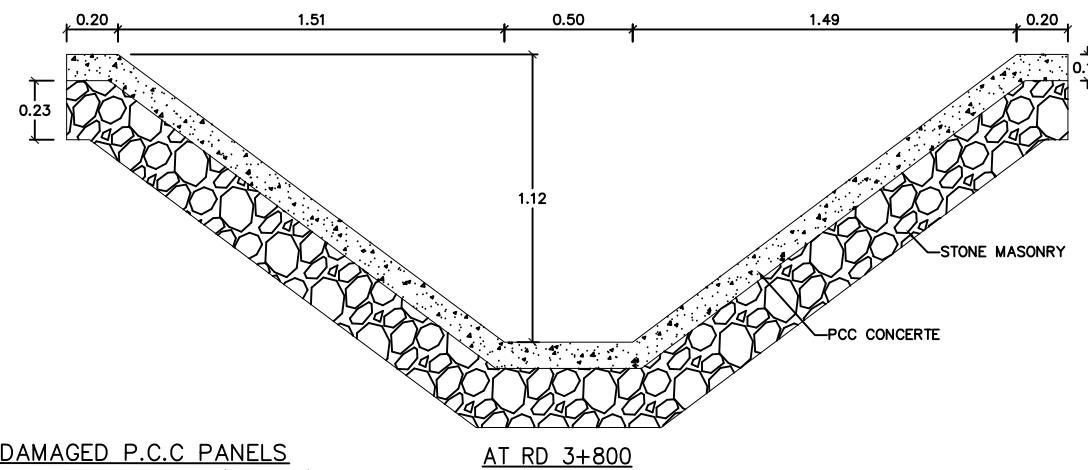
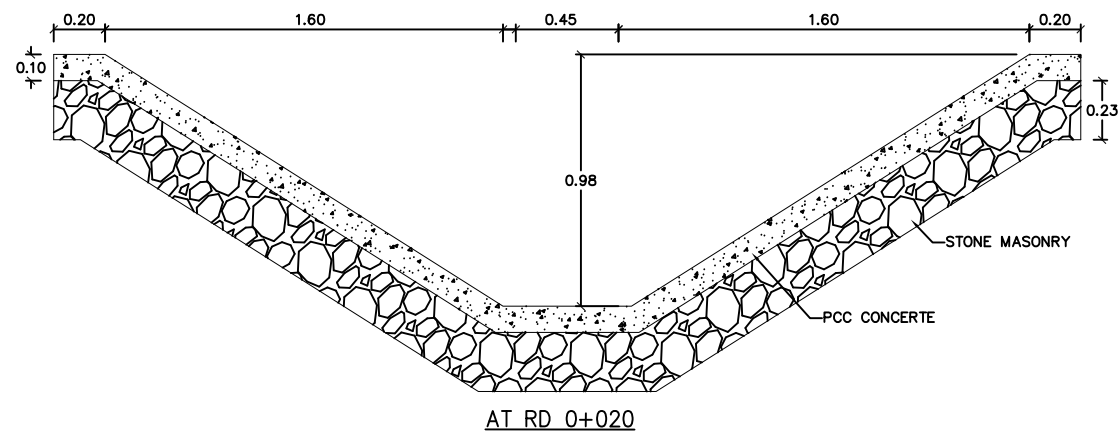
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF JARMA DISTY**

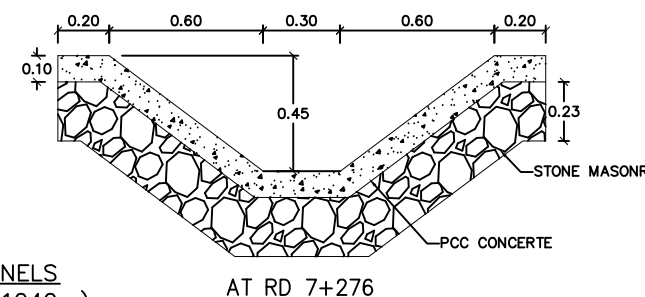
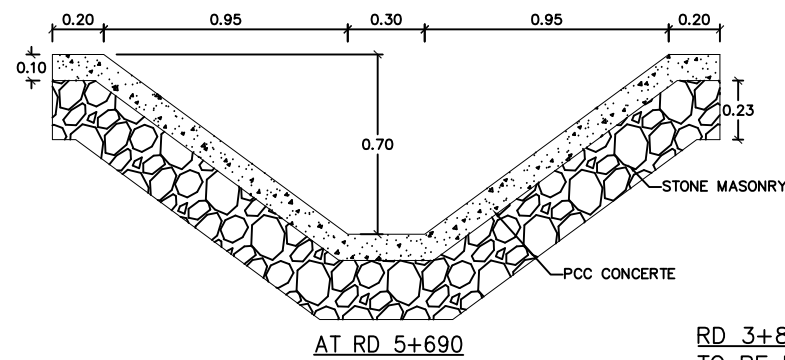
DRG.No:-	TND-1513	SHEET:-	13 OF 014	SCALE	DATE
Shown			SUB SH.-	JANUARY 2021	



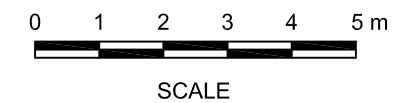
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RD 0+020 TO 3+800 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1500m)



RD 3+801 TO 7+276 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1040m)



TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

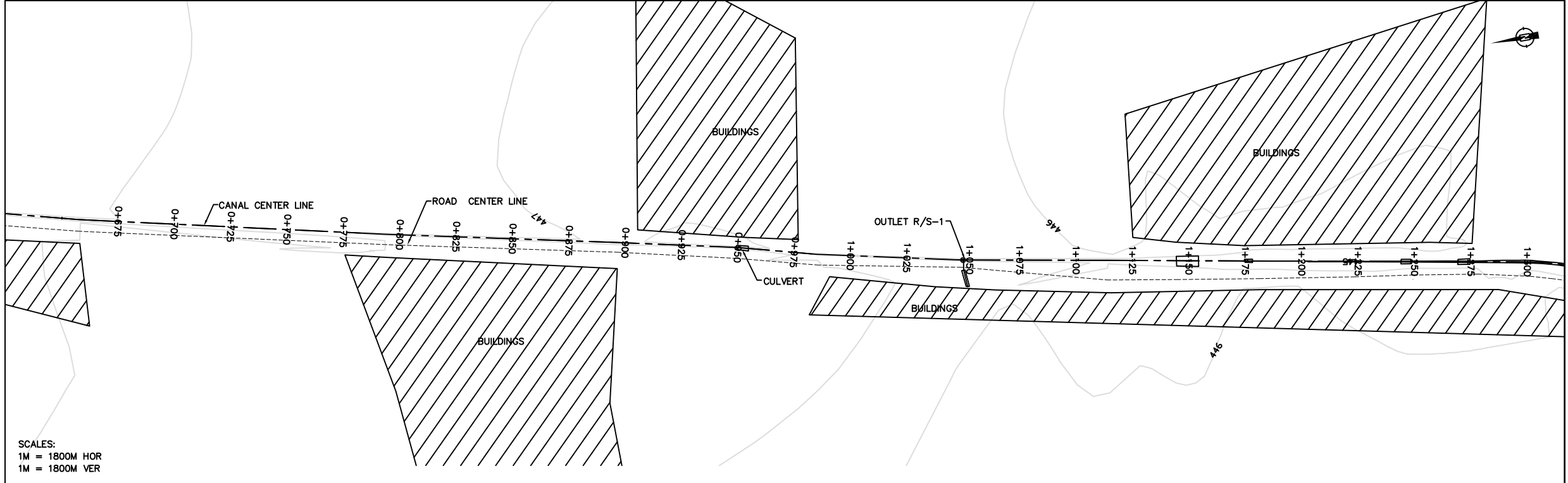
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **EXISTING CROSS SECTION OF JARMA DISTRIBUTARY**

DRG.No:- TND-1515	SHEET:- 1 OF 02	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

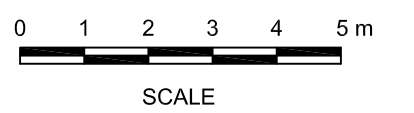


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SCALES:  
 1M = 1800M HOR  
 1M = 1800M VER




RD	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	
F.S.L	447.68	447.58	447.47	447.37	447.26	447.15	447.05	446.94	446.84	446.73	446.62	446.52	446.41	446.31	446.22	446.10	445.99	445.88	445.77	445.67	445.56	445.46	445.35	445.24	445.15	445.03	444.93	
BED LEVEL	447.68	447.58	447.47	447.37	447.26	447.15	447.05	446.94	446.84	446.73	446.62	446.52	446.41	446.31	446.22	446.10	445.99	445.88	445.77	445.67	445.56	445.46	445.35	445.24	445.14	445.03	444.93	
SILTED BED																												
DISCHARGE CUMEC	0.4210												0.3209															
REMARKS	DESILTING & REPAIRING																											
SLOPE %	0.42																											
VELOCITY (m/s)	1.49																											
BED WIDTH (m)	0.3																											



TENDER DRAWING

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 **RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
 **ETA** IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

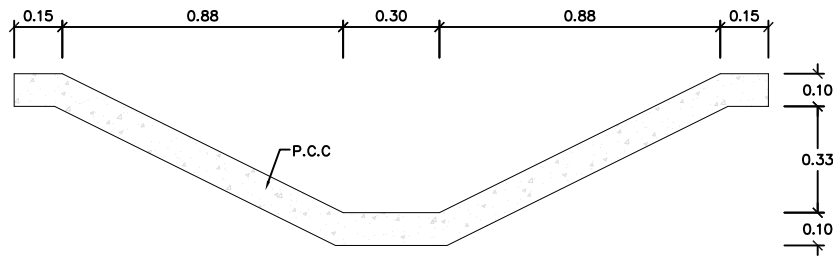
TITLE:  
**PLAN AND PROFILE OF JARMA SUB MINOR**

DRG.No:-	TND-1602	SHEET:-	02 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

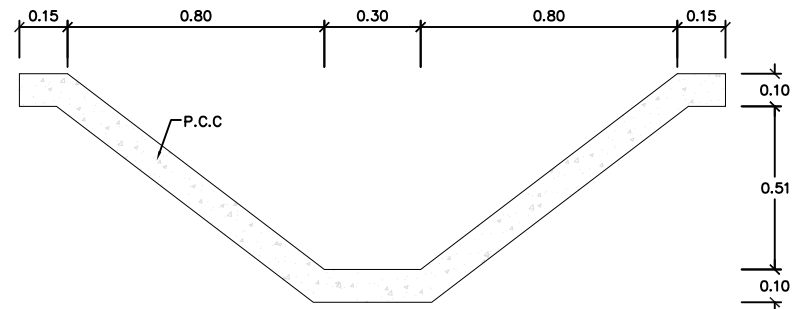




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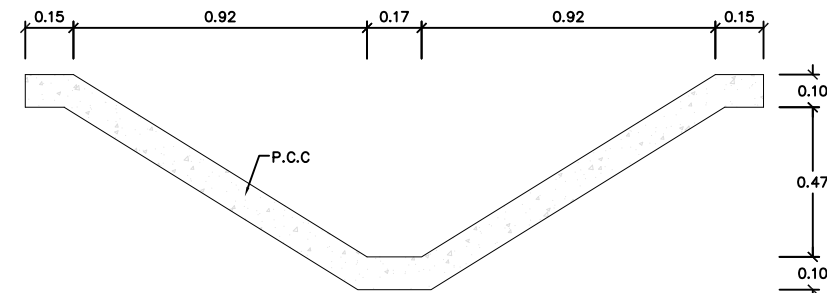


RD AT 0+015



RD AT 1+000

RD 0+015 TO 1+000 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (300m)



RD AT 1+920


RD 1+000 TO 1+920 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (268m)






SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

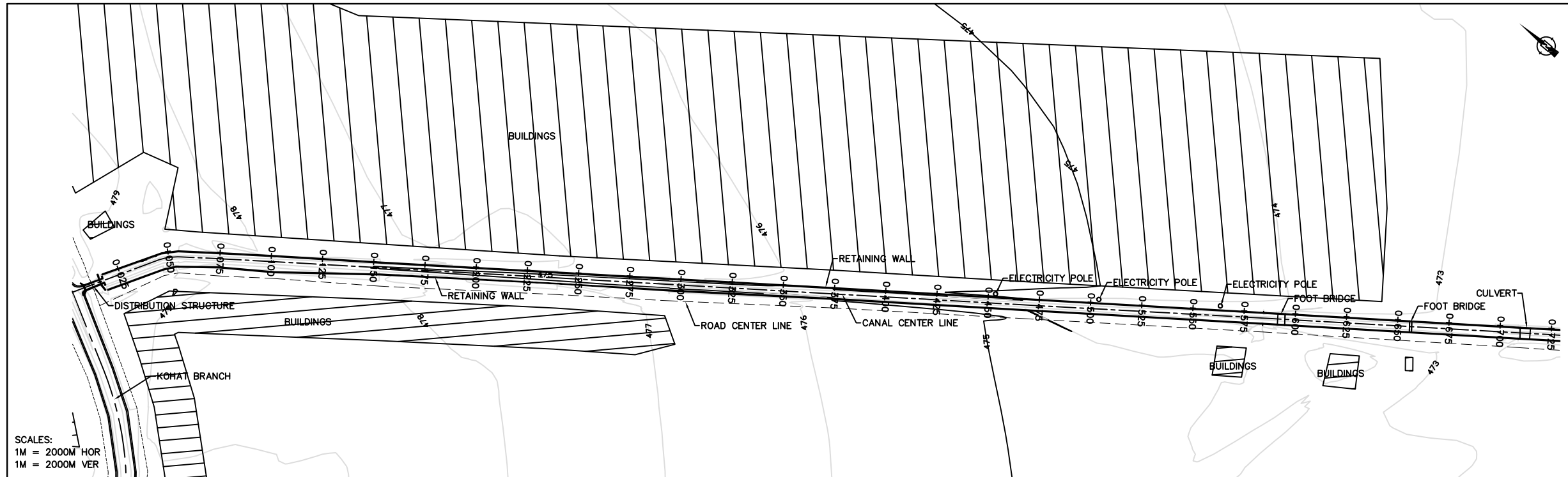
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A Joint Venture of:  
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

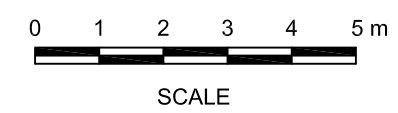
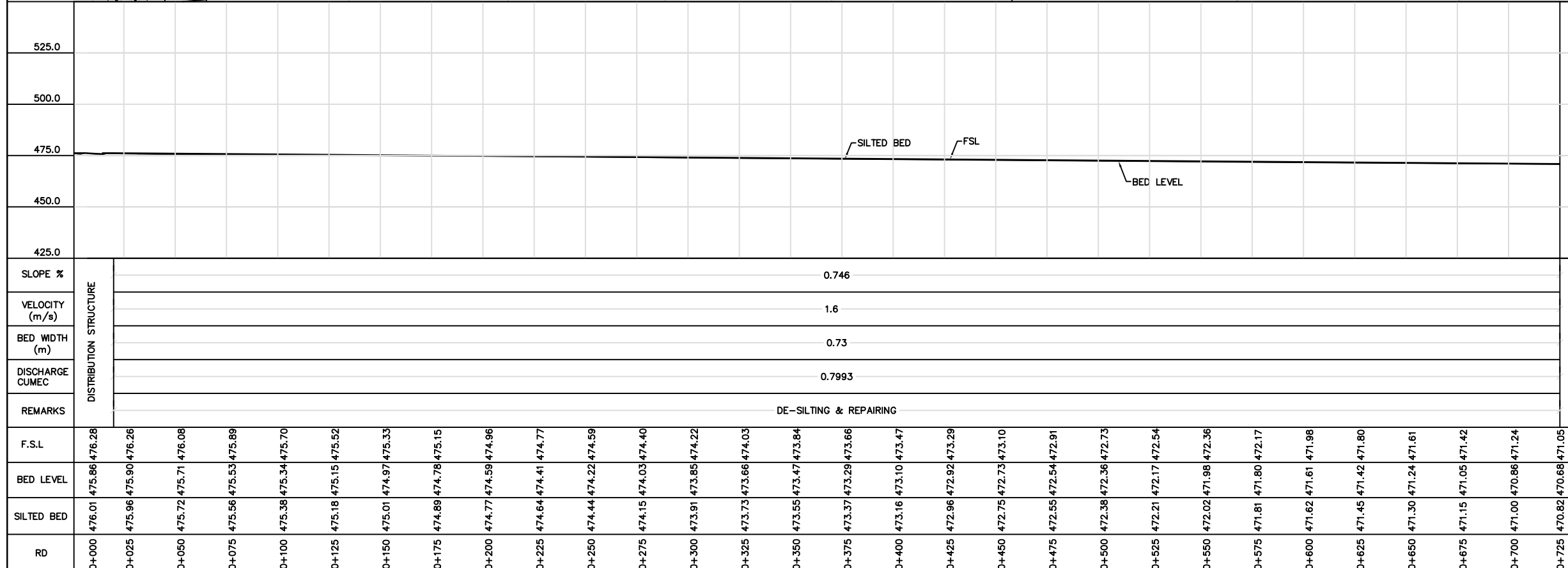
TITLE: **PLAN AND PROFILE OF JARMA SUB MINOR**

DRG.No:- TND-1604	SHEET:- 01 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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1M = 2000M VER



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

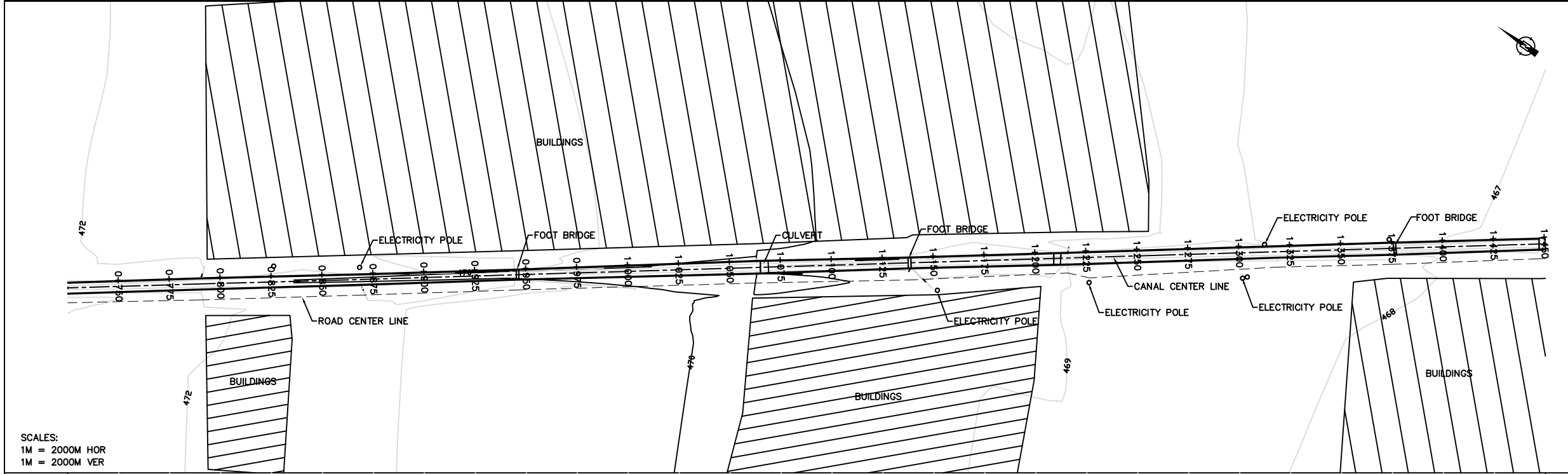
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF KHARMATU DISTRY**

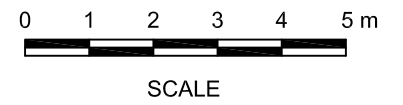
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SCALES:  
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1M = 2000M VER

525.0			
500.0			
475.0			
450.0		SILTED BED	FSL
425.0			BED LEVEL
SLOPE %			0.78
VELOCITY (m/s)			0.52
BED WIDTH (m)			1.00
DISCHARGE CUMEC			0.7993
REMARKS		DE-SILTING & REPAIRING	
F.S.L	470.82	470.68	471.05
BED LEVEL	470.63	470.48	470.87
SILTED BED	470.47	470.29	470.69
RD	0+725	0+750	0+775
	0+800	0+825	0+850
	0+875	0+900	0+925
	0+950	0+975	1+000
	1+025	1+050	1+075
	1+100	1+125	1+150
	1+175	1+200	1+225
	1+250	1+275	1+300
	1+325	1+350	1+375
	1+400	1+425	1+450



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS** REHMAN HABIB CONSULTANTS (PVT) LTD.

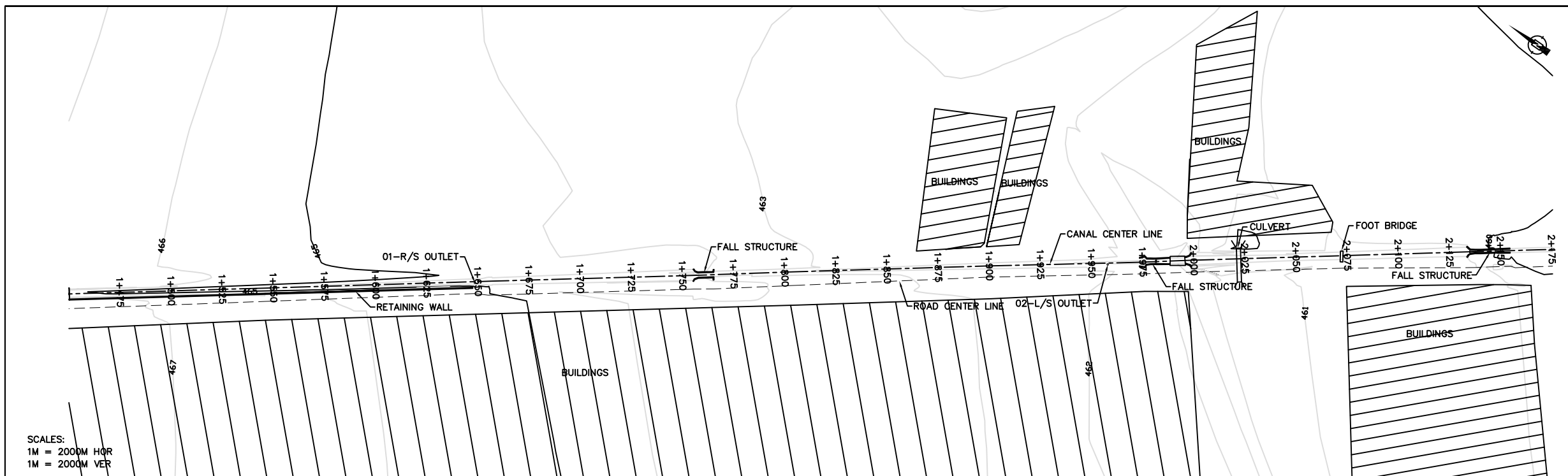
REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN AND PROFILE OF KHARMATU DISTRY

DRG.No.:-	TND-1702	SHEET:-	02 OF 13	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER

500.0																														
475.0																														
450.0																														
425.0																														
400.0																														
SLOPE %		0.78		0.28				0.647																						
VELOCITY (m/s)		0.52		1.44				1.64																						
BED WIDTH (m)		1.00		0.8				0.70																						
DISCHARGE CUMEC		0.7993		0.7329				0.7329																						
REMARKS	DE-SILTING, REPAIRING & PROTECTION WALL L/S ON TOP OF CHANNEL				DE-SILTING,REPAIRING & PROTECTION WALLS BOTH SIDES ON TOP OF CHANNEL																									
F.S.L	465.73	465.04	465.73	465.73	463.00	463.50	463.99	463.29	462.57	462.41	462.25	462.09	461.93	461.77	461.61	461.45	461.25	461.02	460.79	460.59	460.50	460.40	460.31	459.78	459.24					
BED LEVEL	465.12	464.85	464.66	464.99	463.26	463.19	463.39	463.05	462.19	462.03	461.86	461.70	461.54	461.37	461.21	461.05	460.77	460.22	460.17	460.11	460.06	460.00	459.95	458.42	458.63					
SILTED BED	465.12	464.91	464.71	464.46	463.89	463.31	463.12	463.07	462.29	462.12	461.92	461.70	461.55	461.37	461.21	461.05	460.77	460.55	460.42	460.29	460.20	460.06	460.00	459.95	458.43	458.63				
RD	1+450	1+475	1+500	1+525	1+550	1+575	1+600	1+625	1+650	1+675	1+700	1+725	1+750	1+775	1+800	1+825	1+850	1+875	1+900	1+925	1+950	1+975	2+000	2+025	2+050	2+075	2+100	2+125	2+150	2+175



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

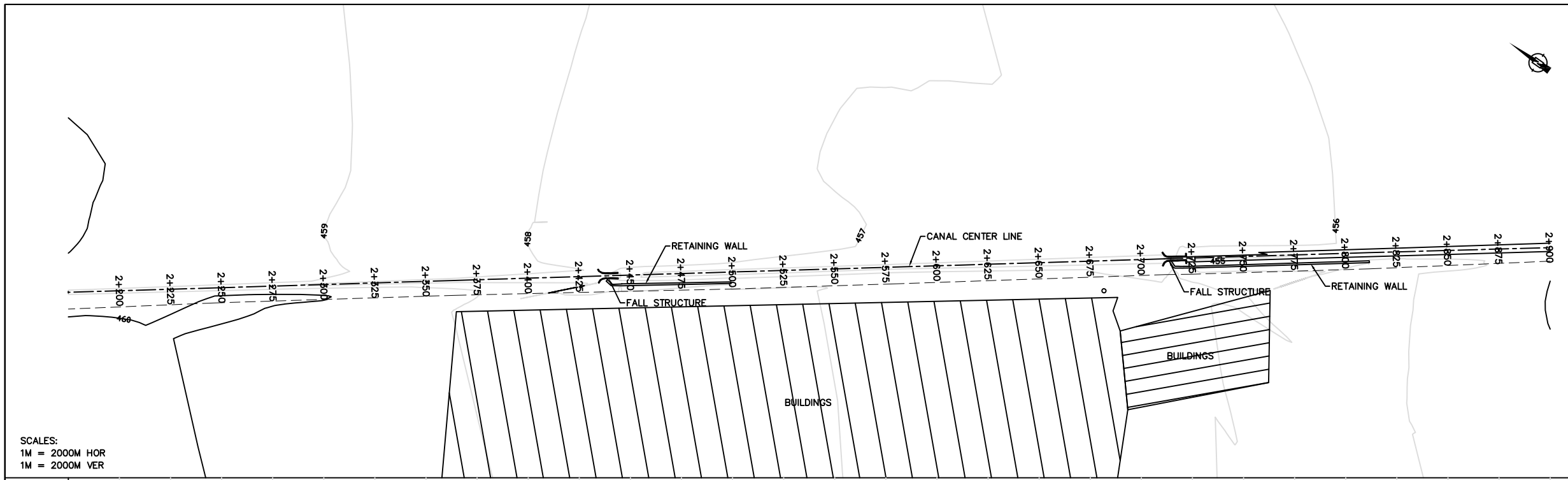
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 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

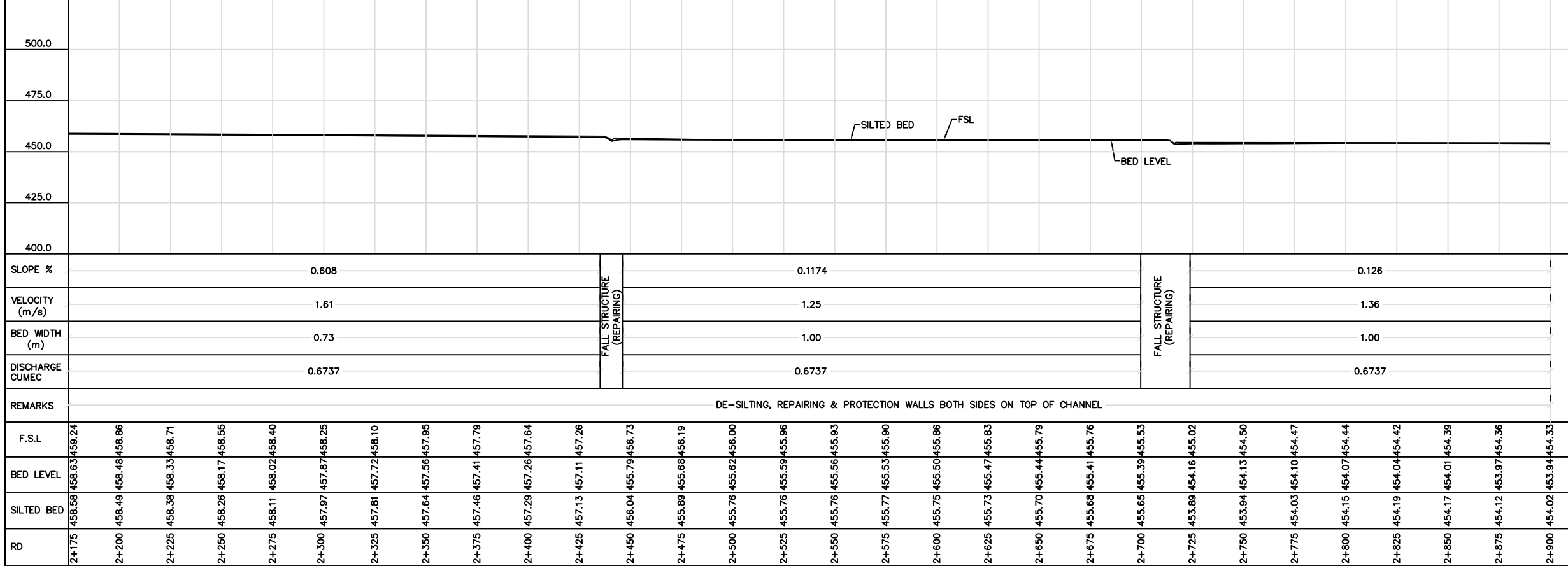
TITLE:  
**PLAN AND PROFILE OF  
 KHARMATU DISTRY**

DRG.No:- TND-1703	SHEET:- 03 OF 13	SCALE	DATE
		Shown	JANUARY 2023
		SUB SH,-	----

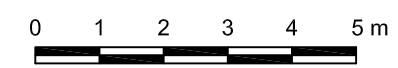
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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



SLOPE %	0.608										0.1174										0.126													
VELOCITY (m/s)	1.61										1.25										1.36													
BED WIDTH (m)	0.73										1.00										1.00													
DISCHARGE CUMEC	0.6737										0.6737										0.6737													
REMARKS	DE-SILTING, REPAIRING & PROTECTION WALLS BOTH SIDES ON TOP OF CHANNEL																																	
F.S.L	2+175	2+200	2+225	2+250	2+275	2+300	2+325	2+350	2+375	2+400	2+425	2+450	2+475	2+500	2+525	2+550	2+575	2+600	2+625	2+650	2+675	2+700	2+725	2+750	2+775	2+800	2+825	2+850	2+875	2+900				
BED LEVEL	456.63	458.86	458.71	458.55	458.40	458.25	458.10	457.95	457.79	457.64	457.48	457.32	457.16	457.00	456.84	456.68	456.52	456.36	456.20	456.04	455.88	455.72	455.56	455.40	455.24	455.08	454.92	454.76	454.60	454.44	454.28	454.12	453.96	453.80
SILTED BED	456.58	458.81	458.66	458.50	458.35	458.19	458.04	457.88	457.72	457.57	457.41	457.25	457.10	456.94	456.78	456.62	456.46	456.30	456.14	455.98	455.82	455.66	455.50	455.34	455.18	455.02	454.86	454.70	454.54	454.38	454.22	454.06	453.90	453.74
RD	2+175	2+200	2+225	2+250	2+275	2+300	2+325	2+350	2+375	2+400	2+425	2+450	2+475	2+500	2+525	2+550	2+575	2+600	2+625	2+650	2+675	2+700	2+725	2+750	2+775	2+800	2+825	2+850	2+875	2+900				



SCALE

TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

**CAMEOS**  
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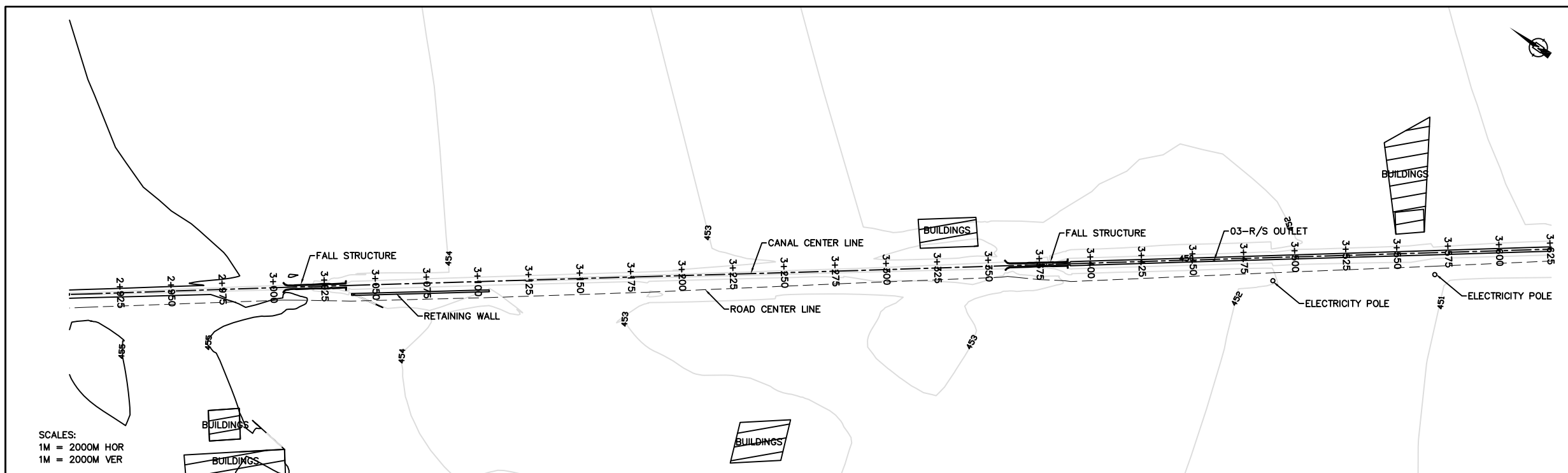
**ETA** IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

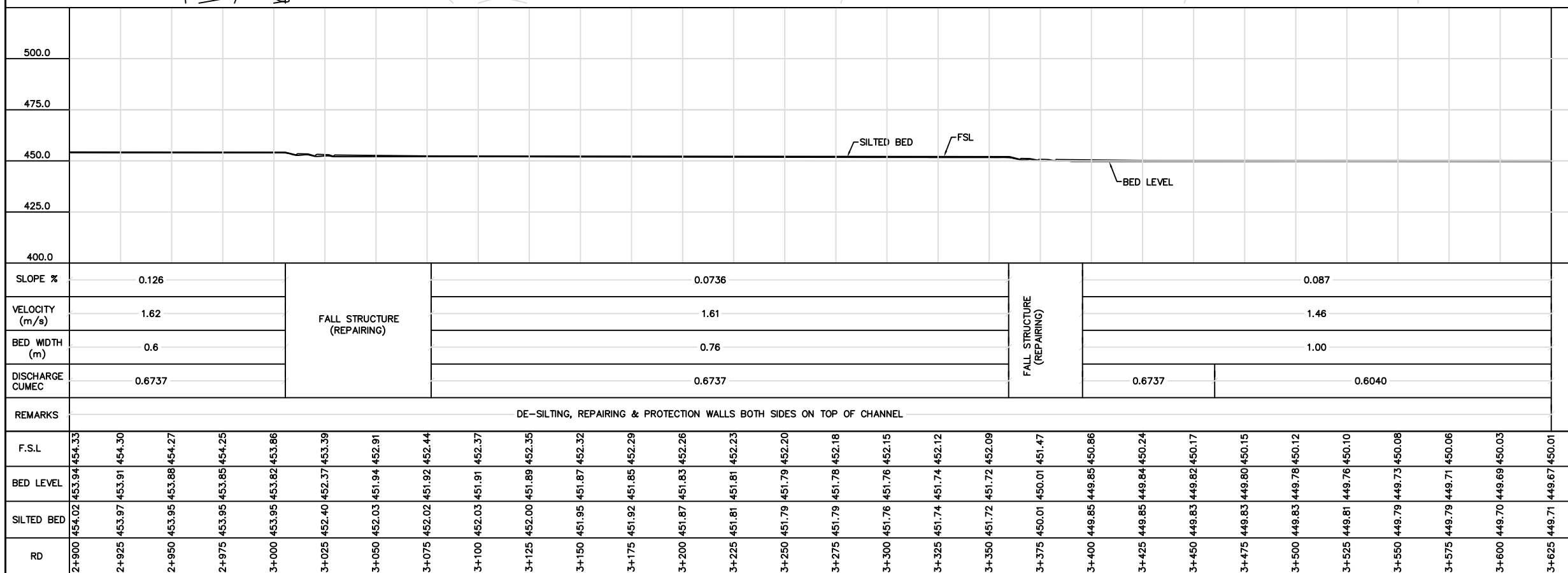
TITLE:  
**PLAN AND PROFILE OF  
 KHARMATU DISTRY**

DRG.No:-	TND-1704	SHEET:-	04 OF 13	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

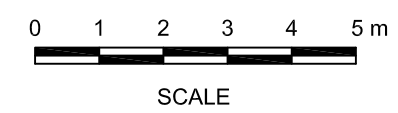
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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



Parameter	Value	Remarks
SLOPE %	0.126	FALL STRUCTURE (REPAIRING)
VELOCITY (m/s)	1.62	
BED WIDTH (m)	0.6	
DISCHARGE CUMEC	0.6737	
		FALL STRUCTURE (REPAIRING)
	0.0736	
	1.61	
	0.76	
		0.087
	0.6737	
		0.6040
REMARKS	DE-SILTING, REPAIRING & PROTECTION WALLS BOTH SIDES ON TOP OF CHANNEL	



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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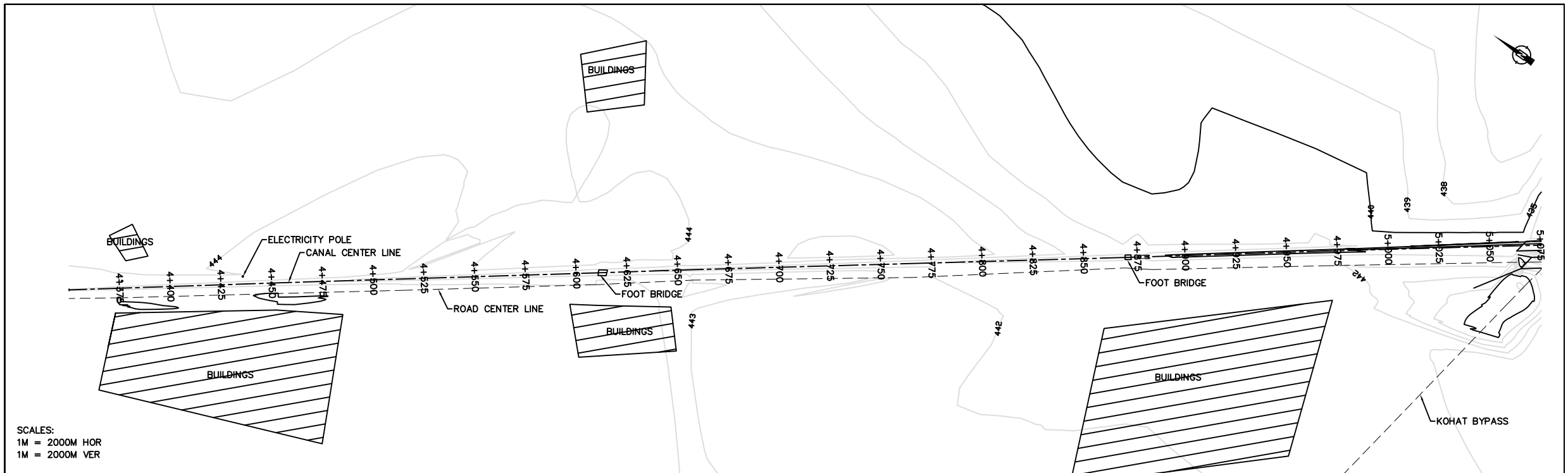
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN AND PROFILE OF KHARMATU DISTRY

DRG.No:- TND-1705	SHEET:- 05 OF 13	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

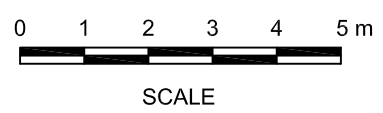


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SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER

500.0		
475.0		
450.0		
425.0		
400.0		
SLOPE %	0.626	0.0895
VELOCITY (m/s)	0.56	1.5
BED WIDTH (m)	0.7	1.5
DISCHARGE CUMEC	0.5382	0.5382
REMARKS	DE-SILTING, REPAIRING & PROTECTION WALLS BOTH SIDES ON TOP OF CHANNEL	
WATER LEVEL	444.37	444.29
BED LEVEL	444.00	440.12
SILTED BED	444.00	440.12
RD	4+350	5+075



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

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**ETA** ENGINEERING & TECHNICAL ASSOCIATES

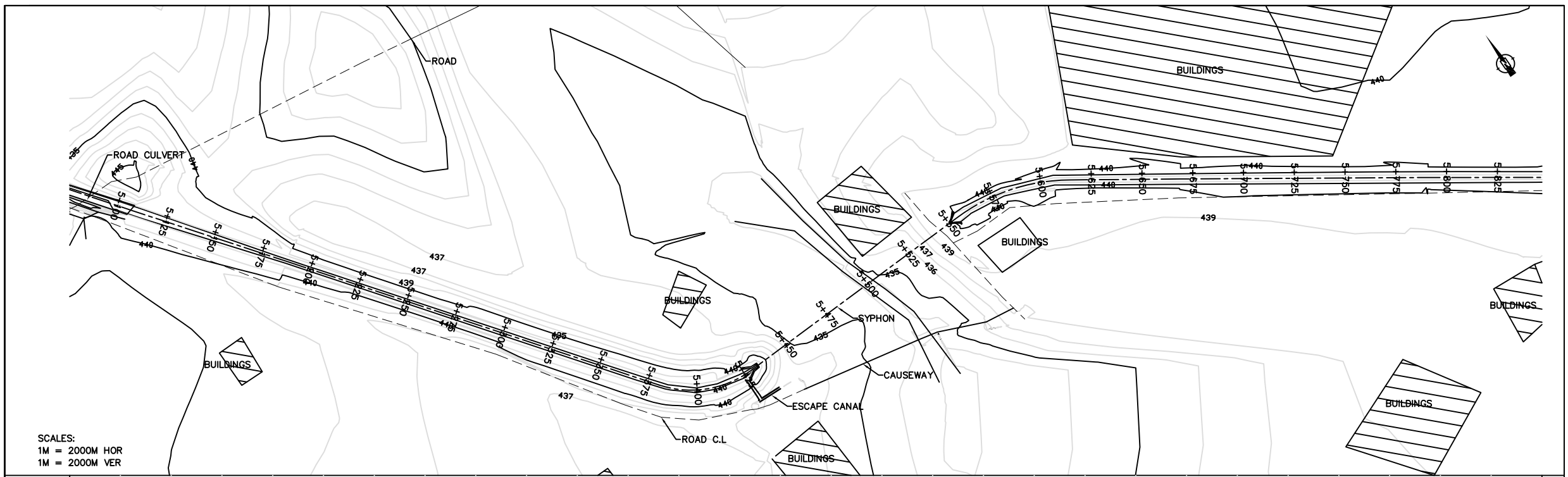
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF  
 KHARMATU DISTRY**

DRG.No:-	TND-1707	SHEET:-	07 OF 13	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

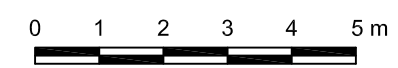


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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

475.0																															
450.0																															
425.0	SILTED BED										FSL																				
400.0																															
375.0																															
SLOPE %	0.0895										0.03065																				
VELOCITY (m/s)	1.03										0.58																				
BED WIDTH (m)	1.7										1.6																				
DISCHARGE CUMEC	0.5382										0.5382																				
REMARKS	DE-SILTING, REPAIRING & PROTECTION WALL BOTH SIDES ON TOP OF CHANNEL																														
RD	5+075	5+100	5+125	5+150	5+175	5+200	5+225	5+250	5+275	5+300	5+325	5+350	5+375	5+400	5+425	5+450	5+475	5+500	5+525	5+550	5+575	5+600	5+625	5+650	5+675	5+700	5+725	5+750	5+775	5+800	
WATER LEVEL	440.29	440.27	440.25	440.23	440.21	440.19	440.17	440.15	440.14	440.12	440.10	440.08	440.06	440.04	439.98	439.85	439.73	439.60	439.48	439.35	439.28	439.28	439.27	439.27	439.26	439.26	439.26	439.26	439.26	439.25	
BED LEVEL	439.99	439.97	439.95	439.92	439.90	439.88	439.86	439.83	439.81	439.79	439.77	439.74	439.72	439.70	439.68	439.51	439.33	439.14	439.08	439.04	438.83	438.81	438.81	438.80	438.79	438.78	438.78	438.77	438.76	438.75	438.75
SILTED BED	440.12	439.97	439.96	439.92	439.90	439.90	439.87	439.85	439.82	439.80	439.78	439.78	439.79	439.74	439.76	435.55	434.84	434.25	435.70	439.83	438.89	438.90	438.86	438.82	438.80	438.80	438.86	438.89	438.91	438.93	



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

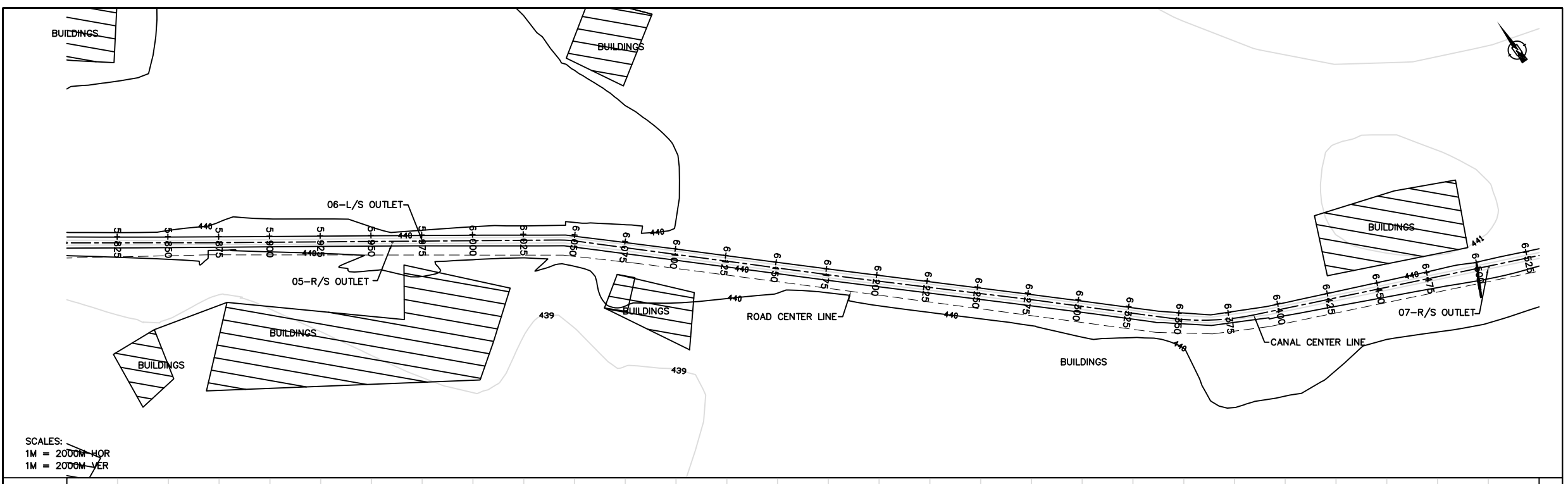
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN AND PROFILE OF KHARMATU DISTRY

DRG.No:-	TND-1708	SHEET:-	08 OF 13	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER

475.0																																
450.0																																
425.0																																
400.0																																
375.0																																
SLOPE %	0.03065			0.0275																												
VELOCITY (m/s)	0.58			1.53																												
BED WIDTH (m)	1.6			1.2																												
DISCHARGE CUMEC	0.5360		0.5182		0.5182																											
REMARKS	0.4486 DE-SILTING, REPAIRING & PROTECTION WALL BOTH SIDES ON TOP OF CHANNEL																															
F.S.L	5+800	5+825	5+850	5+875	5+900	5+925	5+950	5+975	6+000	6+025	6+050	6+075	6+100	6+125	6+150	6+175	6+200	6+225	6+250	6+275	6+300	6+325	6+350	6+375	6+400	6+425	6+450	6+475	6+500	6+525		
BED LEVEL	438.93	438.95	438.94	438.93	438.93	438.91	438.87	438.83	438.80	438.75	438.71	438.81	438.81	438.77	438.72	438.64	438.63	438.61	438.64	438.65	438.61	438.67	438.66	438.65	438.65	438.60	438.61	438.56	438.62	438.64	438.66	438.67
SILTED BED	438.93	438.95	438.94	438.93	438.93	438.91	438.87	438.83	438.80	438.75	438.71	438.81	438.81	438.77	438.72	438.64	438.63	438.61	438.64	438.65	438.61	438.67	438.66	438.65	438.65	438.60	438.61	438.56	438.62	438.64	438.66	438.67
RD	5+800	5+825	5+850	5+875	5+900	5+925	5+950	5+975	6+000	6+025	6+050	6+075	6+100	6+125	6+150	6+175	6+200	6+225	6+250	6+275	6+300	6+325	6+350	6+375	6+400	6+425	6+450	6+475	6+500	6+525		



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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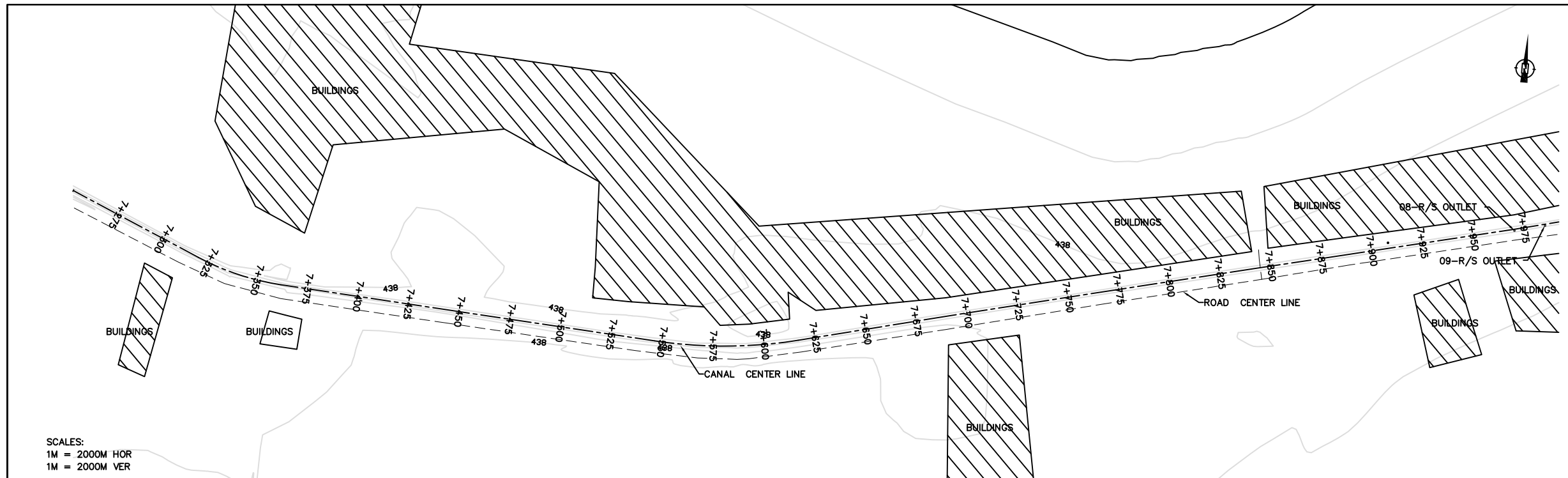
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF KHARMATU DISTRY**

DRG.No:-	TND-1709	SHEET:-	09 OF 13	SUB SH.-	----
SCALE	DATE	Shown	JANUARY 2021		

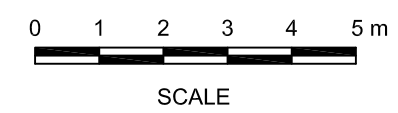


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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

475.0			
450.0			
425.0			
400.0			
375.0			
SLOPE %	0.0454		0.0142
VELOCITY (m/s)	0.62		1.57
BED WIDTH (m)	1.1		1.00
DISCHARGE CUMEC	0.4012		0.4012
REMARKS	DE-SILTING, REPAIRING & PROTECTION WALLS BOTH SIDES ON TOP OF CHANNEL		
WATER LEVEL	436.16	436.16	436.16
BED LEVEL	436.74	436.73	436.08
SILTED BED	436.85	436.84	436.83
RD	7+250	7+275	7+300
	7+325	7+350	7+375
	7+400	7+425	7+450
	7+475	7+500	7+525
	7+550	7+575	7+600
	7+625	7+650	7+675
	7+700	7+725	7+750
	7+775	7+800	7+825
	7+850	7+875	7+900
	7+925	7+950	7+975
	436.16	436.08	436.90



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. ETA IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

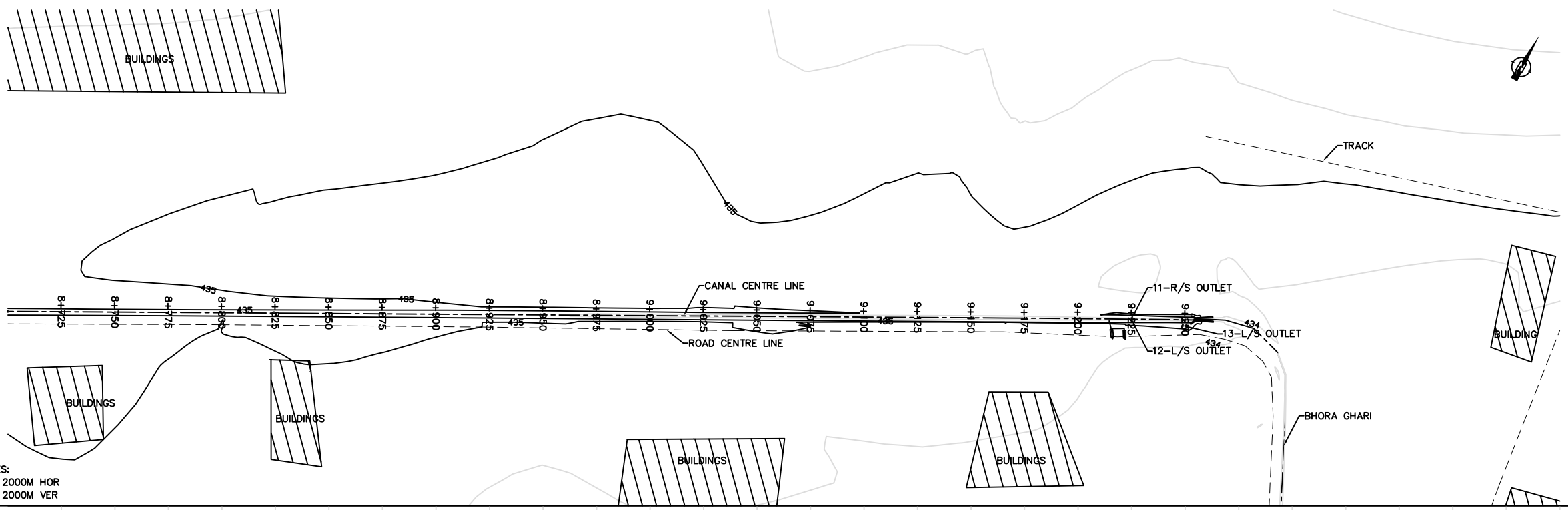
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN AND PROFILE OF KHARMATU DISTRY

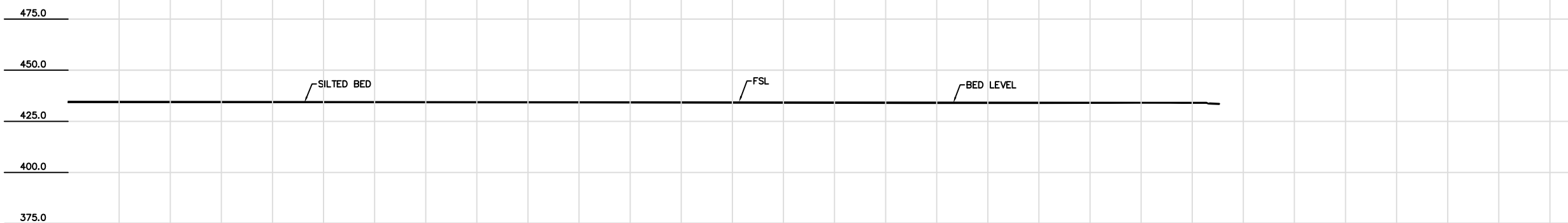
DRG.No:- TND-1711	SHEET:- 11 OF 13	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----



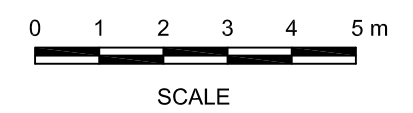
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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



SLOPE %	0.365																							
VELOCITY (m/s)	1.51																							
BED WIDTH (m)	0.6																							
DISCHARGE CUMEC	0.1855																							
REMARKS	DE-SILTING & REPAIRING																							
F.S.L	8+700	8+725	8+750	8+775	8+800	8+825	8+850	8+875	8+900	8+925	8+950	8+975	9+000	9+025	9+050	9+075	9+100	9+125	9+150	9+175	9+200	9+225	9+250	
BED LEVEL	434.25	434.23	434.20	434.17	434.13	434.12	434.08	434.11	434.09	434.05	434.03	434.05	434.03	434.02	434.01	434.00	434.00	433.99	433.98	433.97	433.96	433.95	433.94	433.93
SILTED BED	434.13	434.12	434.11	434.11	434.10	434.09	434.08	434.07	434.06	434.05	434.04	434.03	434.03	434.02	434.01	434.00	434.00	433.99	433.98	433.97	433.96	433.95	433.94	433.93
RD	8+700	8+725	8+750	8+775	8+800	8+825	8+850	8+875	8+900	8+925	8+950	8+975	9+000	9+025	9+050	9+075	9+100	9+125	9+150	9+175	9+200	9+225	9+250	



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

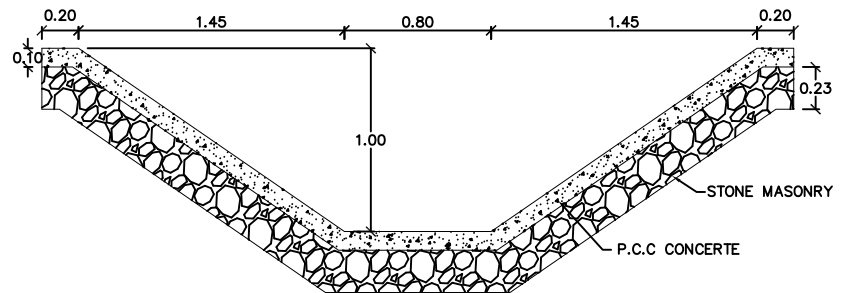
REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

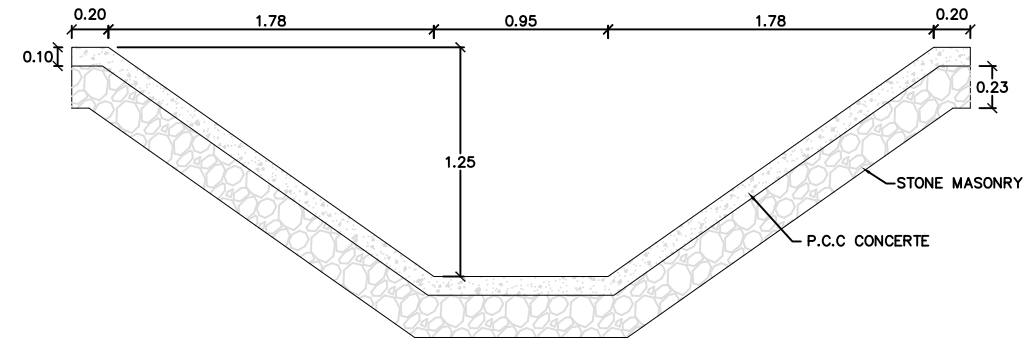
TITLE: PLAN AND PROFILE OF KHARMATU DISTRY

DRG.No:- TND-1713	SHEET:- 13 OF 13	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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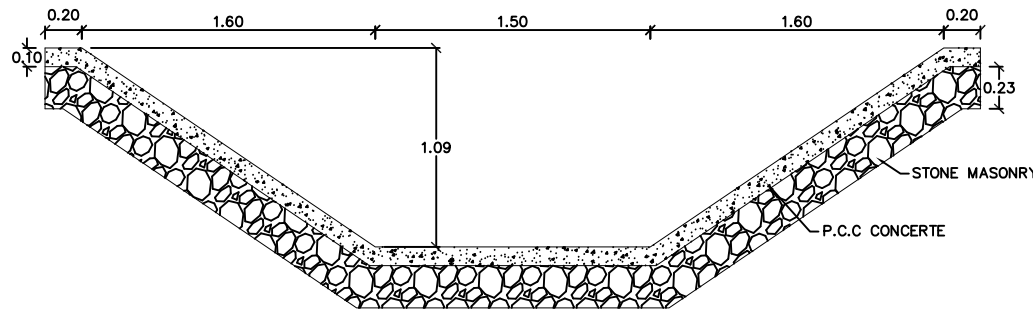


AT RD 0+020

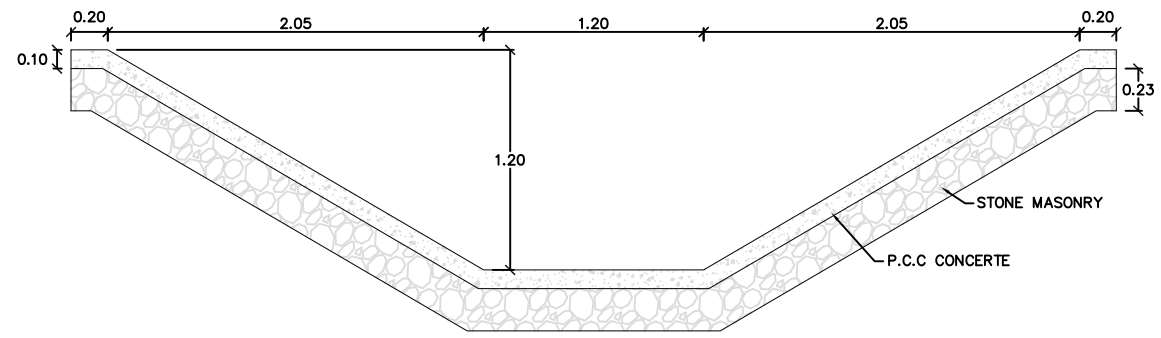


AT RD 3+077

RD 0+020 TO 3+000 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1000m)

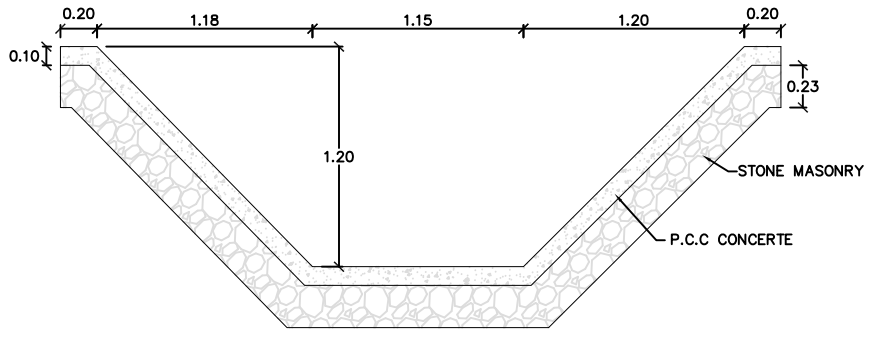


AT RD 4+900

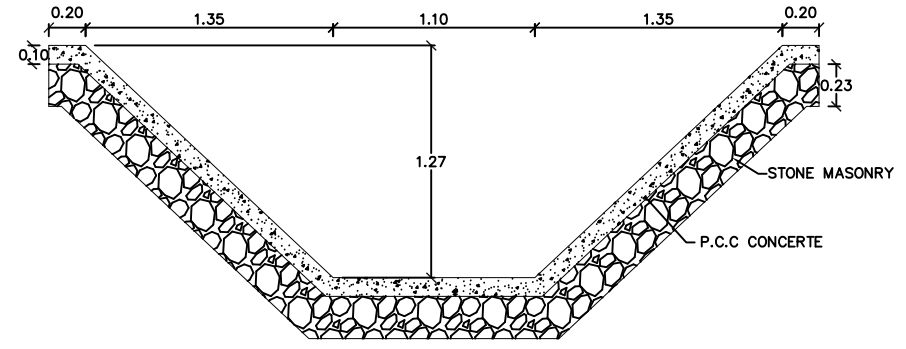


AT RD 7+090

RD 3+050 TO 7+100 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (1820m)

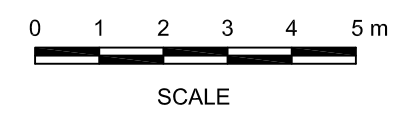


AT RD 8+045





AT RD 9+230




RD 8+045 TO 9+230 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (400m)



TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

REVIEWED & UPDATED FOR TENDER BY: A Joint Venture of:  RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  CASCADE GROUP OF ENGINEERING & CONSULTANTS  IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

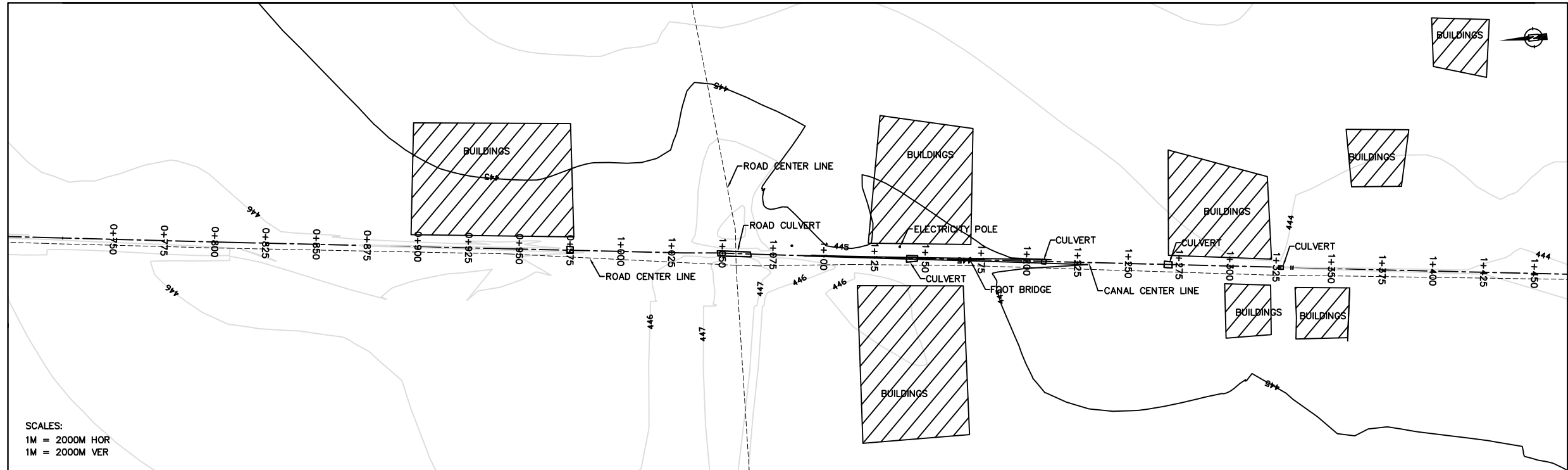
TITLE: CROSS SECTIONS KHARMATU DISTRY EXISTING SECTIONS

DRG.No:- TND-1714	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----



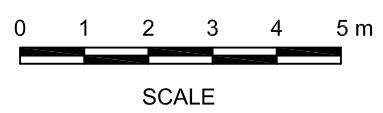


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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

475.0			
450.0		EXISTING BED	FSL
425.0			BED LEVEL
400.0			
SLOPE %		0.36	0.48
VELOCITY (m/s)		1.12	1.12
BED WIDTH (m)		0.25	0.35
DISCHARGE CUMEC		0.1241	0.1241
REMARKS		REPAIRING	
FSL	446.40	446.34	446.56
BED LEVEL	446.36	446.25	446.46
EXISTING BED	446.31	446.16	446.37
RD	0+725	0+750	0+775
	0+800	0+825	0+850
	0+875	0+900	0+925
	0+950	0+975	1+000
	1+025	1+050	1+075
	1+100	1+125	1+150
	1+175	1+200	1+225
	1+250	1+275	1+300
	1+325	1+350	1+375
	1+400	1+425	1+450



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

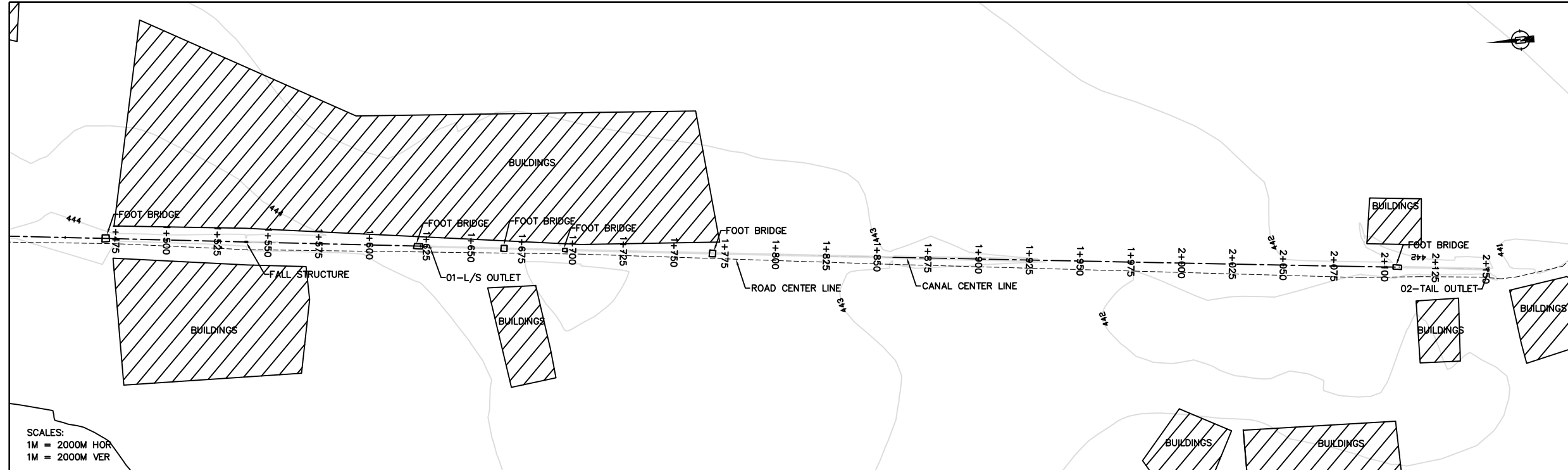
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

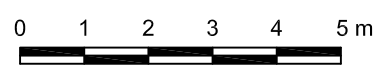
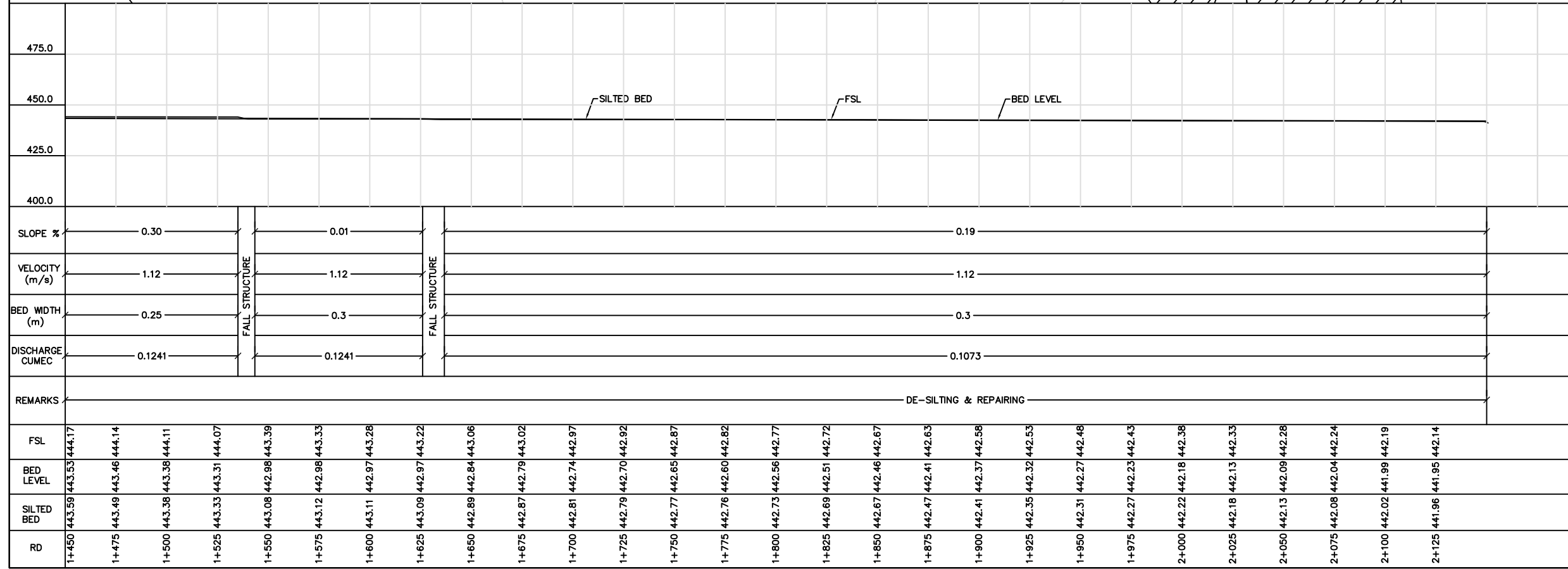
TITLE: **PLAN AND PROFILE OF KHARMATU DISTRY**

DRG.No:- TND-1802	SHEET:- 02 OF 03	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

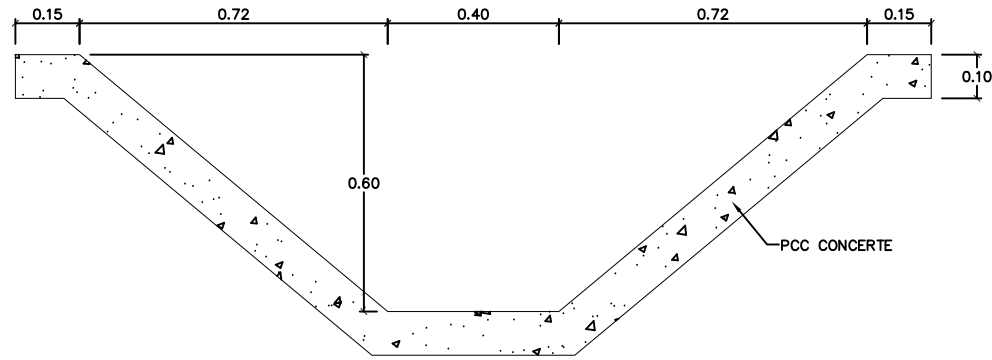
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 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF BAQI ZAI MINOR**

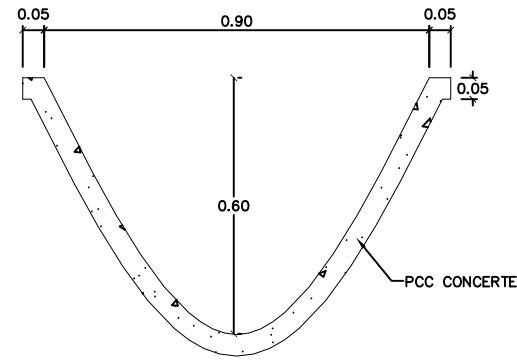
DRG.No.-	TND-1803	SHEET:-	03 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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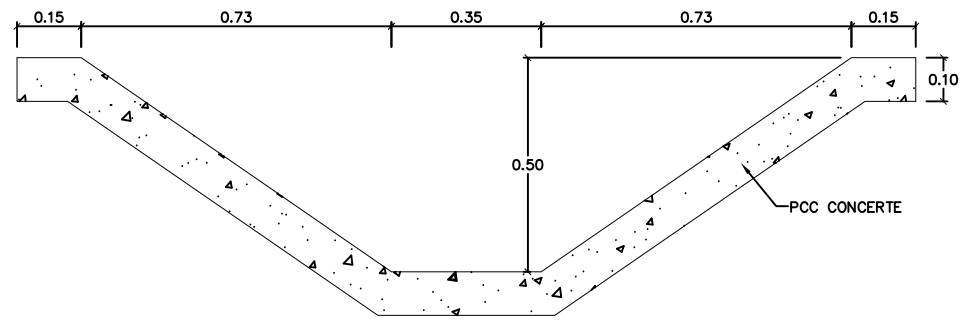


RD FROM 15 TO 100

RD 0+015 TO 0+100 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (85m)

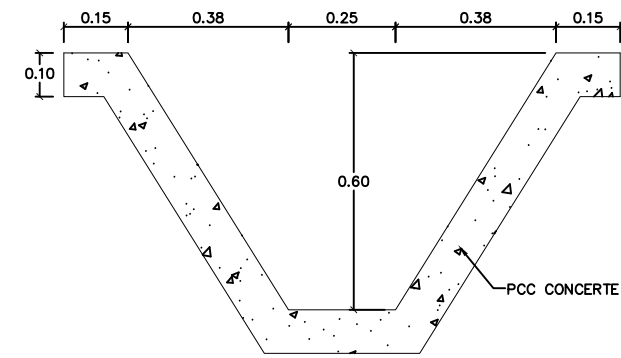


RD FROM 105 TO 633

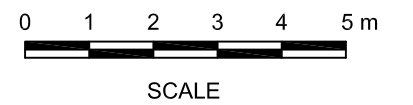


AT RD 640

RD 0+633 TO 2+150 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (551m)



AT RD 2150



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

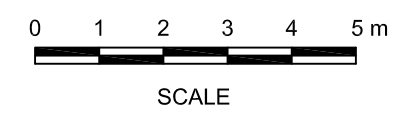
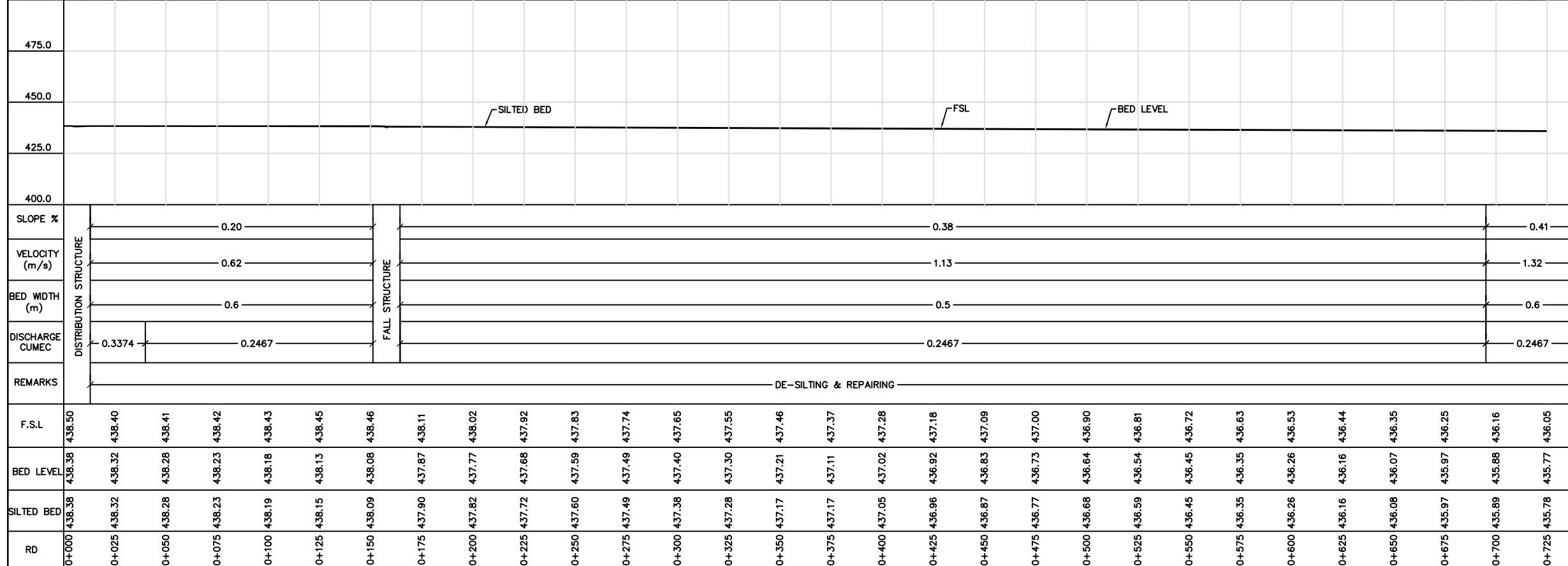
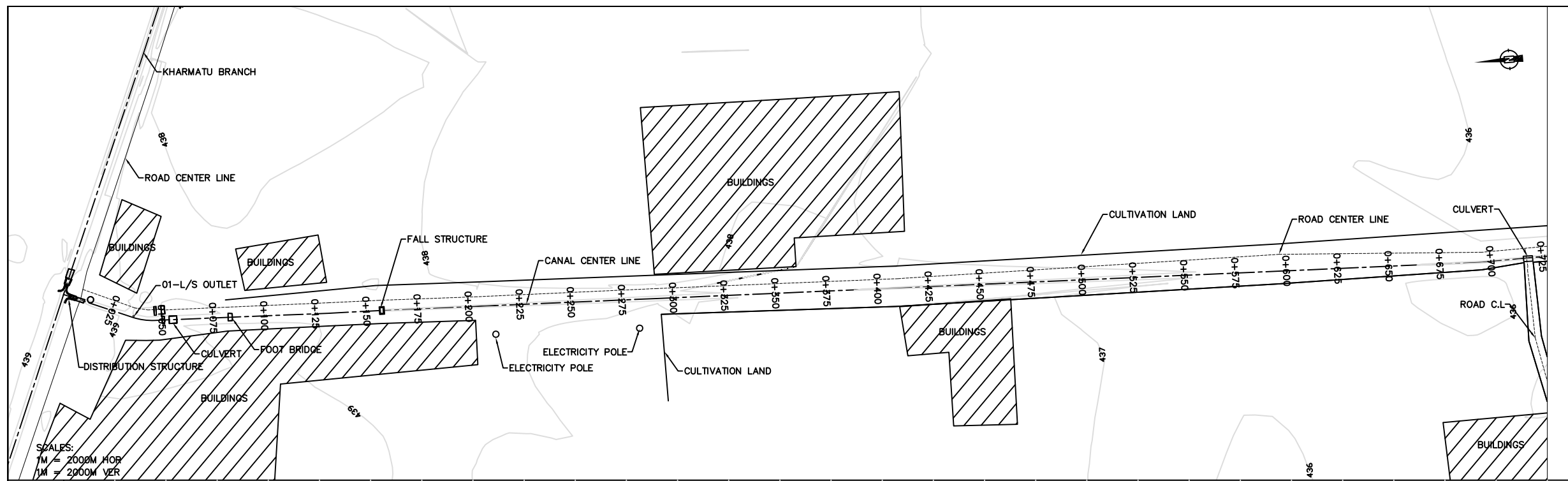
FS CONSULTANTS: CAMEOS  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 REVED & UPDATED FOR TENDER BY: A Joint Venture of:  
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 ETA IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: EXITING CROSS SECTION OF BAQI ZAI MINOR

DRG.No:- TND-1804	SHEET:- 1 OF 02	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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**TENDER DRAWING**

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS** (Logo) **REHMAN HABIB CONSULTANTS (PVT) LTD.** (Logo)  
REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES (ETA)

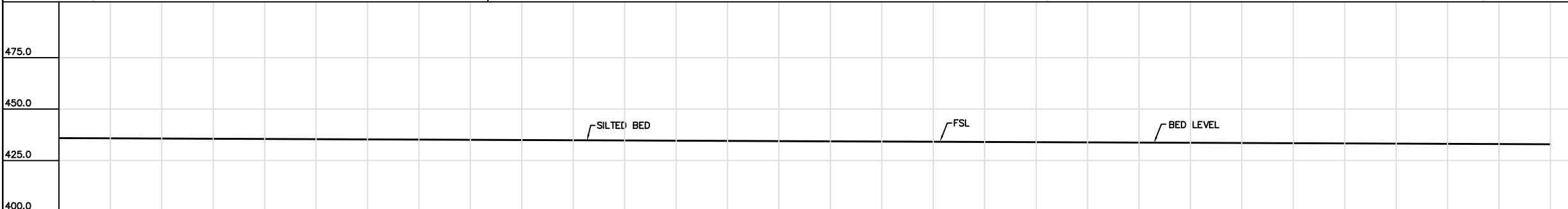
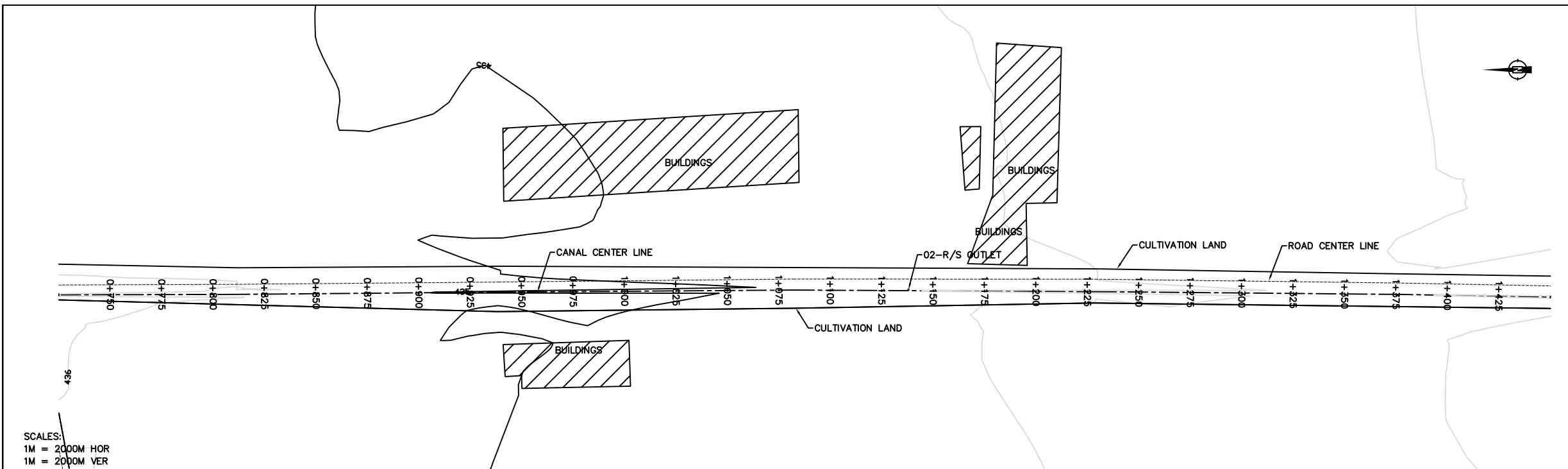
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PROJECT: **CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE: **PLAN AND PROFILE OF KHARMATU SUB MINOR**

DRG.No:- TND-1901      SHEET:- 1 OF 03      SCALE: 1:1000      DATE: JANUARY 2021

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SLOPE %	0.41	0.39
VELOCITY (m/s)	1.32	1.25
BED WIDTH (m)	0.6	0.6
DISCHARGE CUMEC	0.2467	0.1734

REMARKS	DE-SILTING & REPAIRING	
F.S.L	436.05	433.09
BED LEVEL	435.78	432.83
SILTED BED	435.78	432.83
RD	0+725	1+450

RD	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400	1+425	1+450
F.S.L	436.05	435.95	435.85	435.74	435.64	435.53	435.43	435.32	435.22	435.12	435.01	434.91	434.80	434.70	434.59	434.49	434.38	434.28	434.18	434.07	433.97	433.87	433.77	433.67	433.58	433.48	433.38	433.28	433.19	433.09
BED LEVEL	435.78	435.67	435.57	435.46	435.36	435.26	435.16	435.05	434.95	434.85	434.74	434.64	434.54	434.43	434.33	434.23	434.12	434.02	433.92	433.81	433.71	433.61	433.52	433.42	433.32	433.22	433.13	433.03	432.93	432.83
SILTED BED	435.78	435.67	435.58	435.46	435.37	435.26	435.18	435.08	434.96	434.85	434.76	434.65	434.55	434.48	434.36	434.27	434.18	434.03	433.93	433.82	433.71	433.62	433.52	433.44	433.35	433.27	433.18	433.04	432.97	432.87

DRG.No:-	TND-1902	SHEET:-	02 OF 03	SUB SH:-	----
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0 1 2 3 4 5 m

SCALE

**TENDER DRAWING**

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

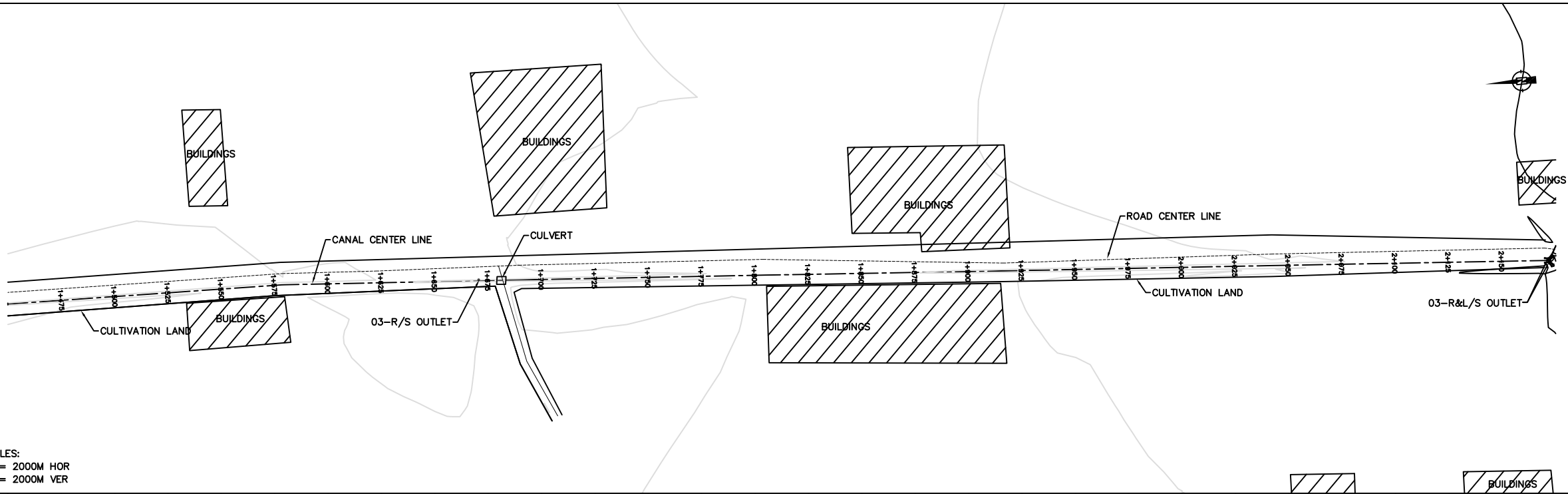
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF KHARMATU SUB MINOR**

SCALE	DATE
Shown	JANUARY 2021

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

475.0																																																																																																																					
450.0																																																																																																																					
425.0																																																																																																																					
400.0																																																																																																																					
SLOPE %	0.39																																																																																																																				
VELOCITY (m/s)	1.25																																																																																																																				
BED WIDTH (m)	0.6																																																																																																																				
DISCHARGE CUMEC	0.1734													0.1190																																																																																																							
REMARKS	DE-SILTING & REPAIRING																																																																																																																				
FSL	1+450	432.87	432.83	433.09	1+475	432.76	432.74	432.99	1+500	432.66	432.64	432.89	1+525	432.56	432.54	432.79	1+550	432.46	432.45	432.70	1+575	432.35	432.35	432.60	1+600	432.26	432.25	432.50	1+625	432.16	432.15	432.40	1+650	432.10	432.06	432.31	1+675	431.97	431.96	432.21	1+700	431.86	431.86	432.11	1+725	431.82	431.76	432.01	1+750	431.68	431.67	431.92	1+775	431.56	431.57	431.82	1+800	431.47	431.47	431.72	1+825	431.38	431.37	431.62	1+850	431.28	431.28	431.53	1+875	431.18	431.18	431.43	1+900	431.09	431.08	431.33	1+925	430.98	430.98	431.23	1+950	430.89	430.89	431.14	1+975	430.80	430.79	431.04	2+000	430.71	430.69	430.94	2+025	430.63	430.60	430.84	2+050	430.54	430.50	430.75	2+075	430.45	430.40	430.65	2+100	430.37	430.30	430.55	2+125	430.21	430.21	430.45	2+150	430.11	430.11	430.36	2+175
BED LEVEL	1+450	432.87	432.83	433.09	1+475	432.76	432.74	432.99	1+500	432.66	432.64	432.89	1+525	432.56	432.54	432.79	1+550	432.46	432.45	432.70	1+575	432.35	432.35	432.60	1+600	432.26	432.25	432.50	1+625	432.16	432.15	432.40	1+650	432.10	432.06	432.31	1+675	431.97	431.96	432.21	1+700	431.86	431.86	432.11	1+725	431.82	431.76	432.01	1+750	431.68	431.67	431.92	1+775	431.56	431.57	431.82	1+800	431.47	431.47	431.72	1+825	431.38	431.37	431.62	1+850	431.28	431.28	431.53	1+875	431.18	431.18	431.43	1+900	431.09	431.08	431.33	1+925	430.98	430.98	431.23	1+950	430.89	430.89	431.14	1+975	430.80	430.79	431.04	2+000	430.71	430.69	430.94	2+025	430.63	430.60	430.84	2+050	430.54	430.50	430.75	2+075	430.45	430.40	430.65	2+100	430.37	430.30	430.55	2+125	430.21	430.21	430.45	2+150	430.11	430.11	430.36	2+175
SILTED BED	1+450	432.87	432.83	433.09	1+475	432.76	432.74	432.99	1+500	432.66	432.64	432.89	1+525	432.56	432.54	432.79	1+550	432.46	432.45	432.70	1+575	432.35	432.35	432.60	1+600	432.26	432.25	432.50	1+625	432.16	432.15	432.40	1+650	432.10	432.06	432.31	1+675	431.97	431.96	432.21	1+700	431.86	431.86	432.11	1+725	431.82	431.76	432.01	1+750	431.68	431.67	431.92	1+775	431.56	431.57	431.82	1+800	431.47	431.47	431.72	1+825	431.38	431.37	431.62	1+850	431.28	431.28	431.53	1+875	431.18	431.18	431.43	1+900	431.09	431.08	431.33	1+925	430.98	430.98	431.23	1+950	430.89	430.89	431.14	1+975	430.80	430.79	431.04	2+000	430.71	430.69	430.94	2+025	430.63	430.60	430.84	2+050	430.54	430.50	430.75	2+075	430.45	430.40	430.65	2+100	430.37	430.30	430.55	2+125	430.21	430.21	430.45	2+150	430.11	430.11	430.36	2+175
RD	1+450	432.87	432.83	433.09	1+475	432.76	432.74	432.99	1+500	432.66	432.64	432.89	1+525	432.56	432.54	432.79	1+550	432.46	432.45	432.70	1+575	432.35	432.35	432.60	1+600	432.26	432.25	432.50	1+625	432.16	432.15	432.40	1+650	432.10	432.06	432.31	1+675	431.97	431.96	432.21	1+700	431.86	431.86	432.11	1+725	431.82	431.76	432.01	1+750	431.68	431.67	431.92	1+775	431.56	431.57	431.82	1+800	431.47	431.47	431.72	1+825	431.38	431.37	431.62	1+850	431.28	431.28	431.53	1+875	431.18	431.18	431.43	1+900	431.09	431.08	431.33	1+925	430.98	430.98	431.23	1+950	430.89	430.89	431.14	1+975	430.80	430.79	431.04	2+000	430.71	430.69	430.94	2+025	430.63	430.60	430.84	2+050	430.54	430.50	430.75	2+075	430.45	430.40	430.65	2+100	430.37	430.30	430.55	2+125	430.21	430.21	430.45	2+150	430.11	430.11	430.36	2+175



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

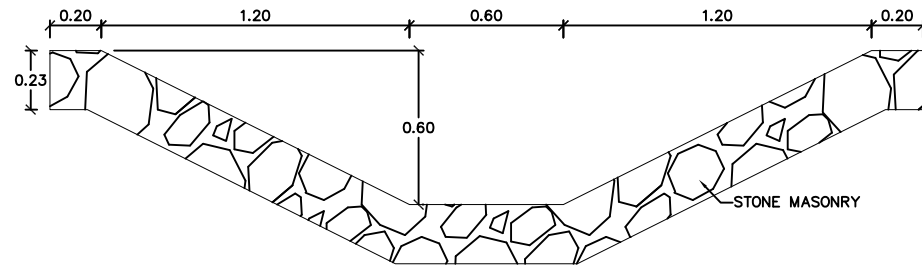
FS CONSULTANTS:  
**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
**CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
IN ASSOCIATION WITH:  
**ETA** ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

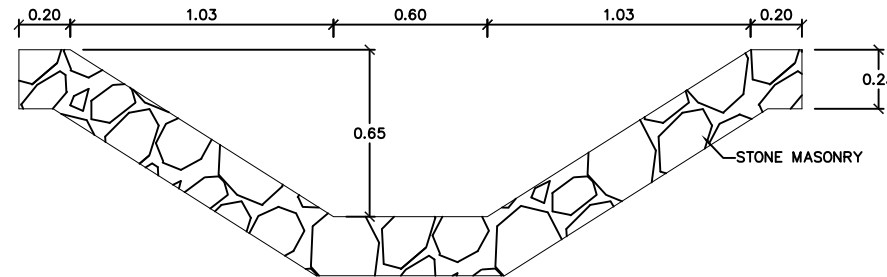
TITLE:  
**PLAN AND PROFILE OF KHARMATU SUB MINOR**

DRG.No:-	TND-1903	SHEET:-	03 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----



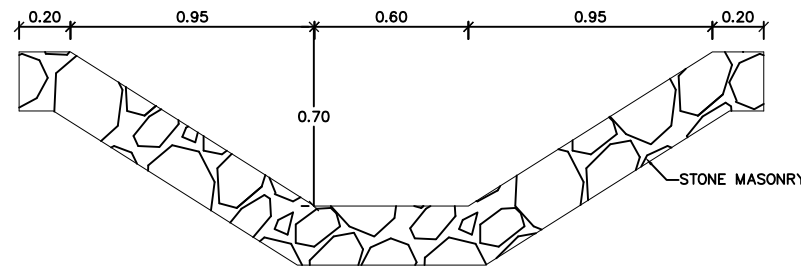
RD FROM 13 TO 160

RD 0+013 TO 0+160 PROPOSED DAMAGED SEC  
TO BE REPAIR IN A TOTAL LENGTH OF (65m)



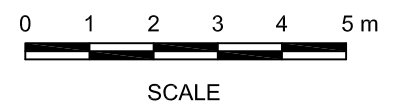
AT RD 1230

RD 0+160 TO 1+230 PROPOSED DAMAGED SEC  
TO BE REPAIR IN A TOTAL LENGTH OF (250m)



AT RD 2171

RD 0+160 TO 1+230 PROPOSED DAMAGED SEC  
TO BE REPAIR IN A TOTAL LENGTH OF (321m)



SCALE

TENDER DRAWING

CLIENT:

KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:

CAMEOS

REVISED & UPDATED FOR TENDER BY:  
A Joint Venture of:

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP OF  
ENGINEERING & CONSULTANTS

IN ASSOCIATION WITH:  
ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:

CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:

EXISTING CROSS SECTIONS  
OF KHARMATU SUB MINOR

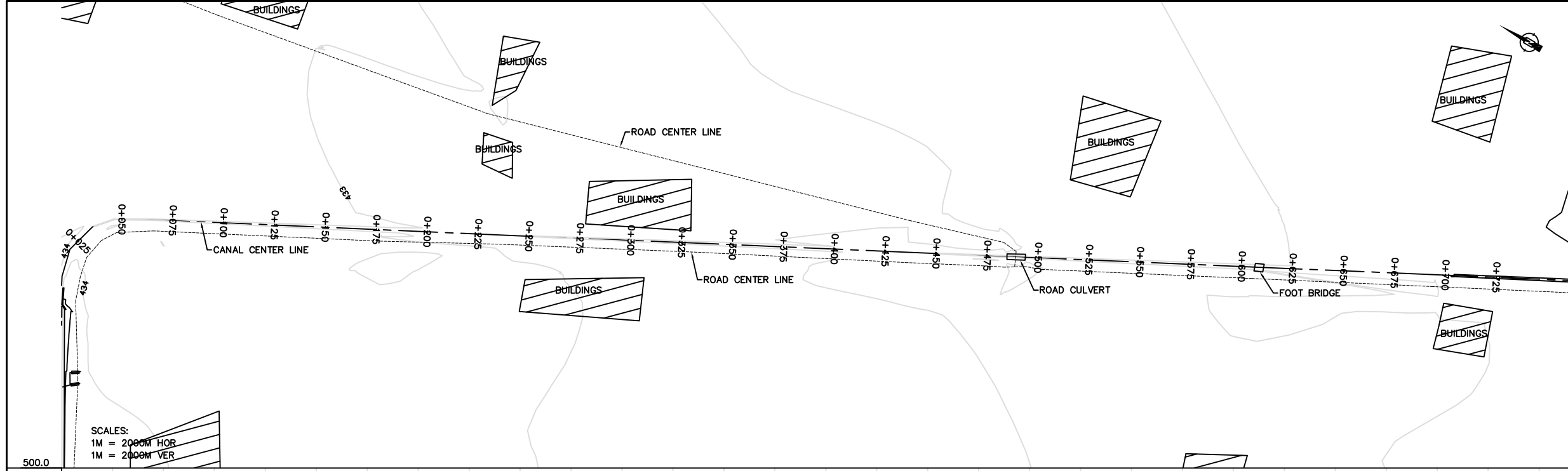
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-1904

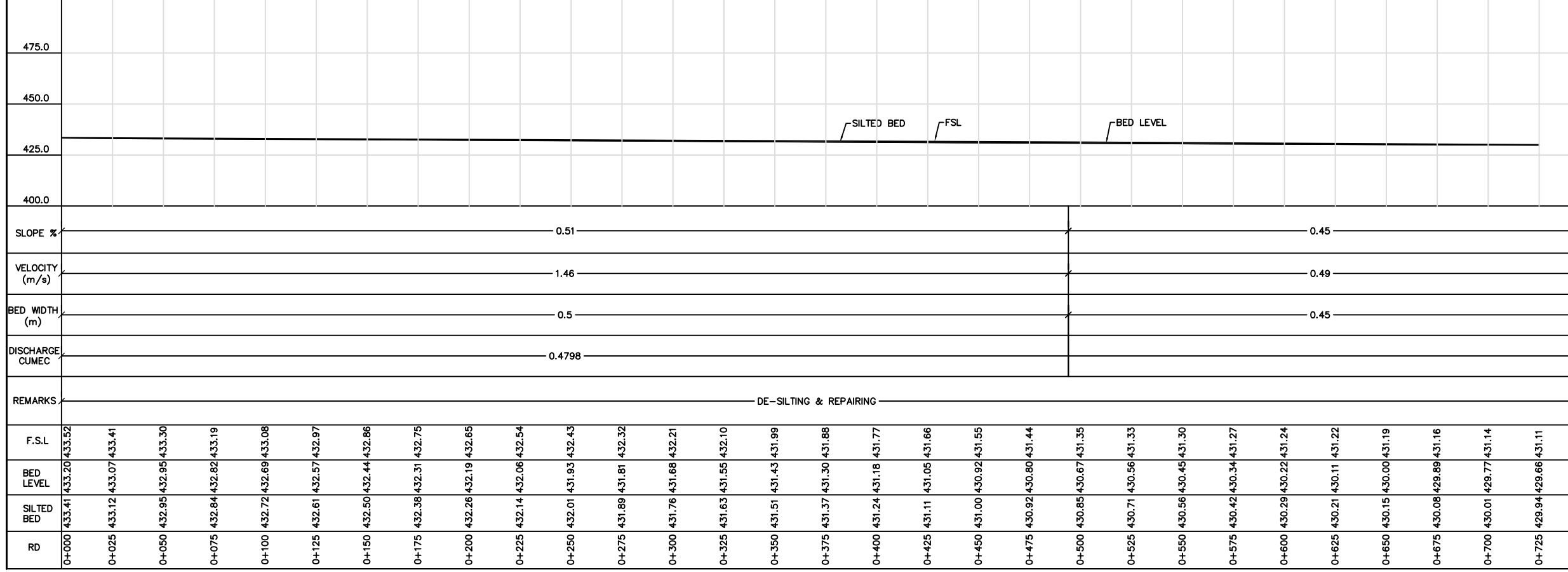
SHEET:- 1 OF 01

SUB SH.-

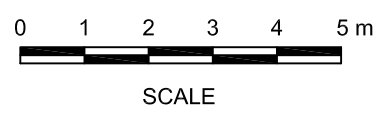
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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



SLOPE %	0.51		0.45
VELOCITY (m/s)	1.46		0.49
BED WIDTH (m)	0.5		0.45
DISCHARGE CUMEC	0.4798		
REMARKS	DE-SILTING & REPAIRING		



**TENDER DRAWING**

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**      REVISED & UPDATED FOR TENDER BY: A Joint Venture of: **RHC** REHMAN HABIB CONSULTANTS (PVT.) LTD. **CASCADE GROUP OF ENGINEERING & CONSULTANTS** **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

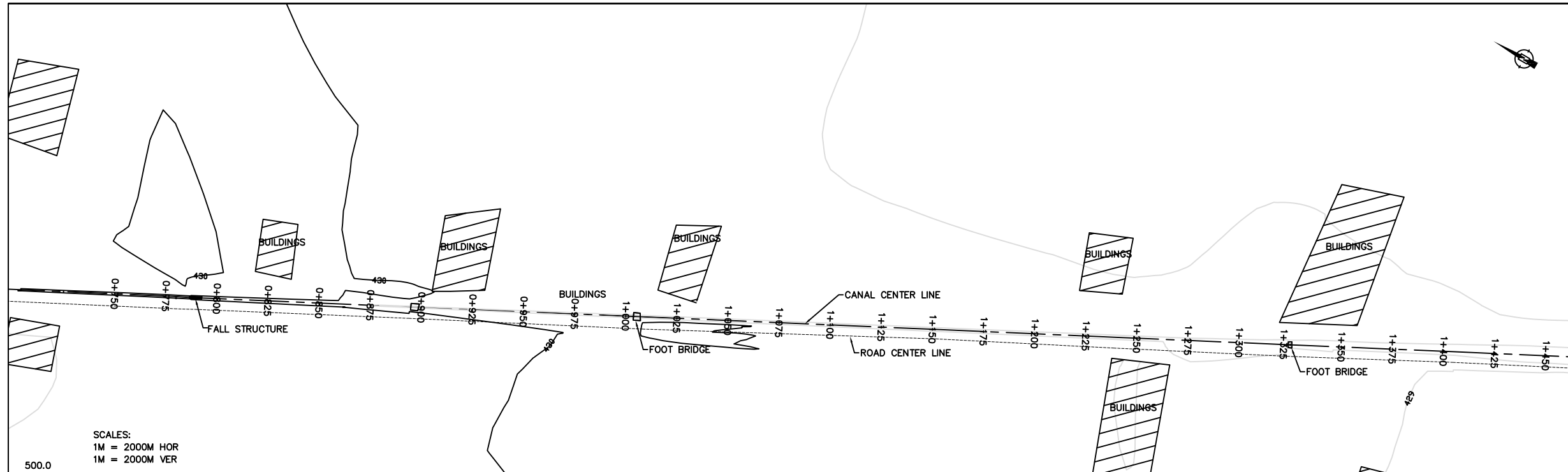
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF BHORA GARHI MINOR**

DRG.No:- TND-2001	SHEET:- 01 OF 05	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

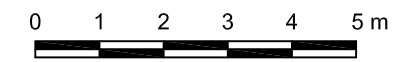


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SCALES:  
1M = 2000M HOR  
1M = 2000M VER


RD	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400	1+425	1+450
F.S.L	431.11	431.08	431.05	429.49	429.44	429.39	429.34	429.29	429.24	429.19	429.14	429.09	429.04	428.99	428.94	428.89	428.84	428.79	428.74	428.69	428.64	428.59	428.54	428.49	428.44	428.40	428.35	428.30	428.25	428.20
BED LEVEL	429.66	429.55	429.44	429.13	429.08	429.02	428.97	428.92	428.87	428.82	428.77	428.72	428.67	428.62	428.57	428.52	428.47	428.42	428.37	428.32	428.27	428.21	428.16	428.11	428.06	428.01	427.96	427.91	427.86	427.81
SILTED BED	429.94	429.87	429.79	429.31	429.22	429.13	429.02	428.93	428.88	428.82	428.75	428.68	428.61	428.54	428.47	428.40	428.33	428.26	428.19	428.12	428.05	427.98	427.91	427.84	427.77	427.70	427.63	427.56	427.49	427.42
SLOPE %	0.45			0.20																										
VELOCITY (m/s)	1.01			1.13																										
BED WIDTH (m)	0.3			0.65																										
DISCHARGE CUMEC	0.4798			0.391111																										
REMARKS				DE-SILTING & REPAIRING																										






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

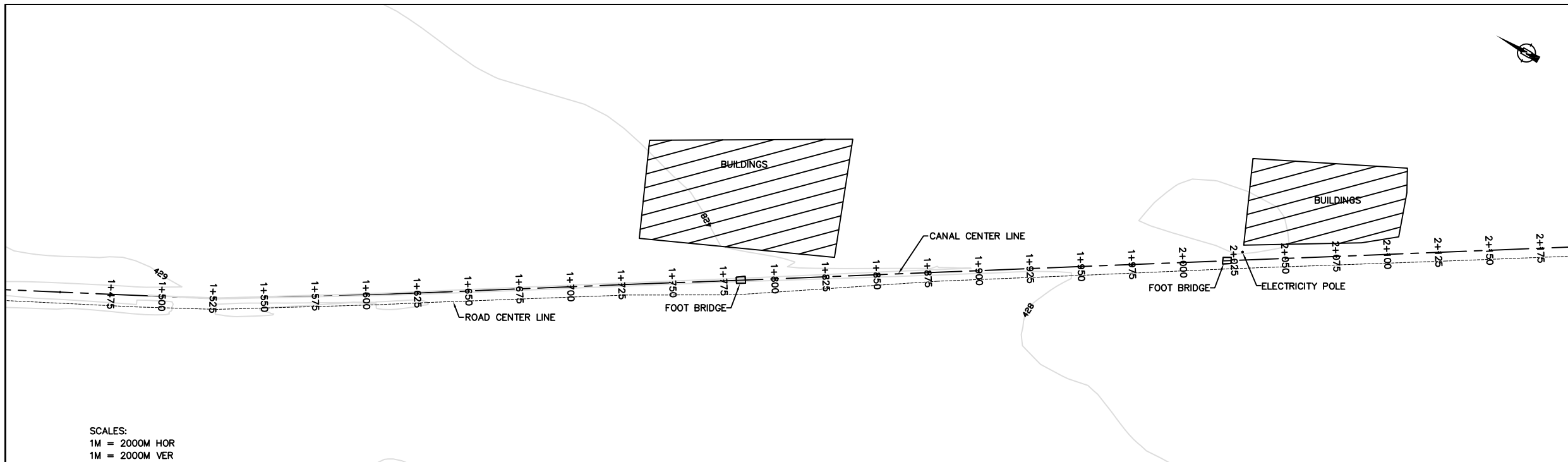
FS CONSULTANTS:  
 CAMEOS

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 ETA IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

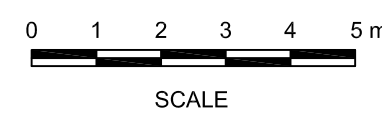
TITLE:  
**PLAN AND PROFILE OF  
 BHORA GARHI MINOR**

DRG.No:- TND-2002	SHEET:- 02 OF 05	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----



SCALES:  
1M = 2000M HOR  
1M = 2000M VER

475.0	
450.0	
425.0	
400.0	
	SILTED BED   FSL   BED LEVEL
SLOPE %	0.2
VELOCITY (m/s)	1.13
BED WIDTH (m)	0.65
DISCHARGE CUMEC	0.391111
REMARKS	DE-SILTING & REPAIRING
F.S.L	428.20 428.15 428.10 428.05 428.00 427.95 427.90 427.85 427.80 427.75 427.70 427.65 427.60 427.55 427.50 427.45 427.40 427.35 427.30 427.25 427.20 427.16 427.11 427.06 427.01 426.96 426.91 426.86 426.81 426.76
BED LEVEL	427.81 427.76 427.71 427.66 427.61 427.56 427.51 427.46 427.41 427.35 427.30 427.25 427.20 427.15 427.10 427.05 427.00 426.95 426.90 426.85 426.80 426.75 426.70 426.65 426.60 426.54 426.49 426.44 426.39 426.34
SILTED BED	428.14 428.10 428.03 427.92 427.88 427.85 427.82 427.79 427.77 427.75 427.72 427.68 427.63 427.58 427.53 427.48 427.43 427.38 427.33 427.28 427.23 427.18 427.13 427.08 427.03 426.98 426.93 426.88 426.83
RD	1+450 1+475 1+500 1+525 1+550 1+575 1+600 1+625 1+650 1+675 1+700 1+725 1+750 1+775 1+800 1+825 1+850 1+875 1+900 1+925 1+950 1+975 2+000 2+025 2+050 2+075 2+100 2+125 2+150 2+175



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
**CAMEOS**

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A Joint Venture of:  
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**ETA IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES**

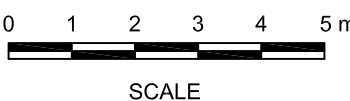
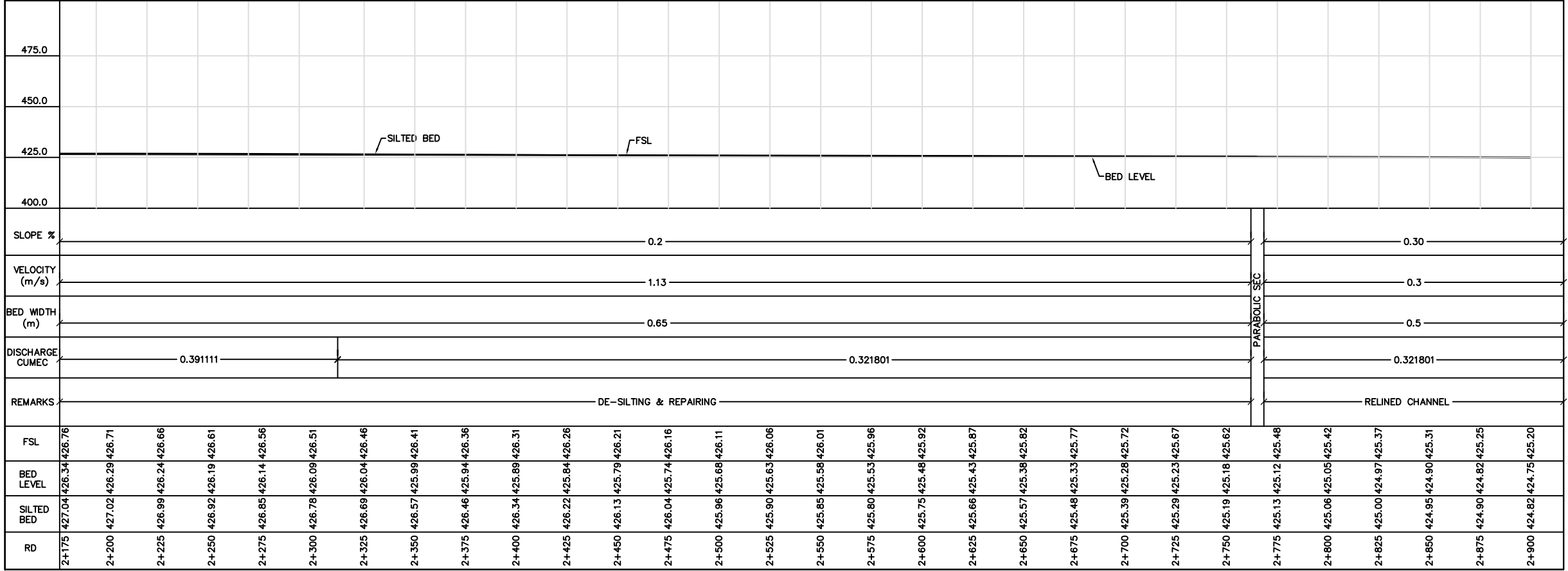
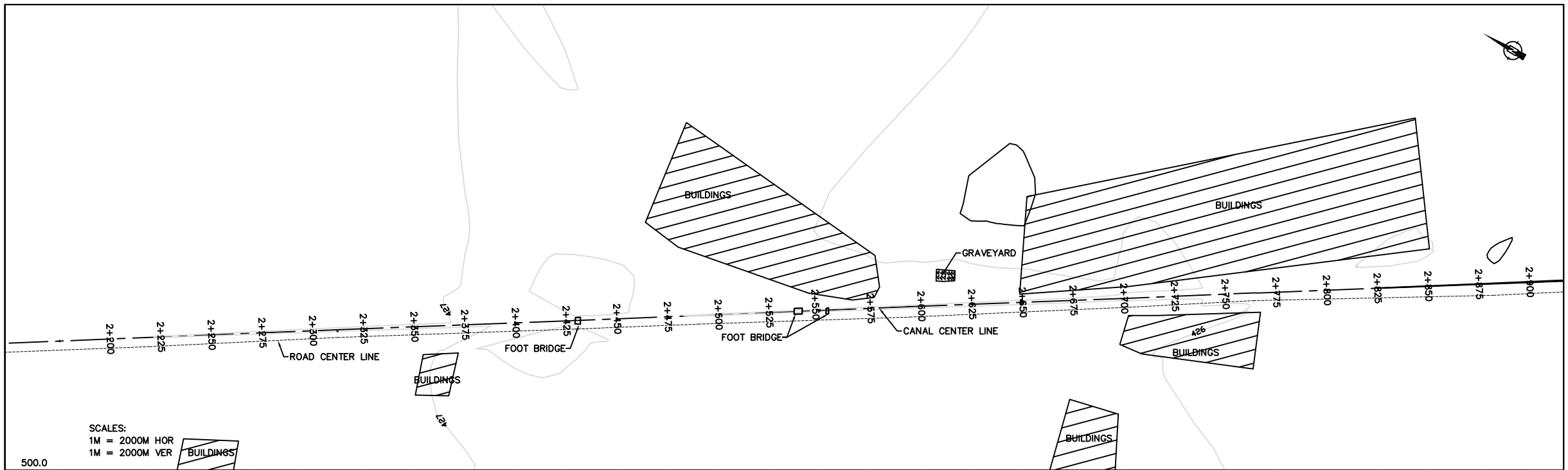
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF BHORA GARHI MINOR**

SCALE      DATE  
Shown    JANUARY 2021

DRG.No:- TND-2003      SHEET:- 03 OF 05      SUB SH.- ----

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**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

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 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

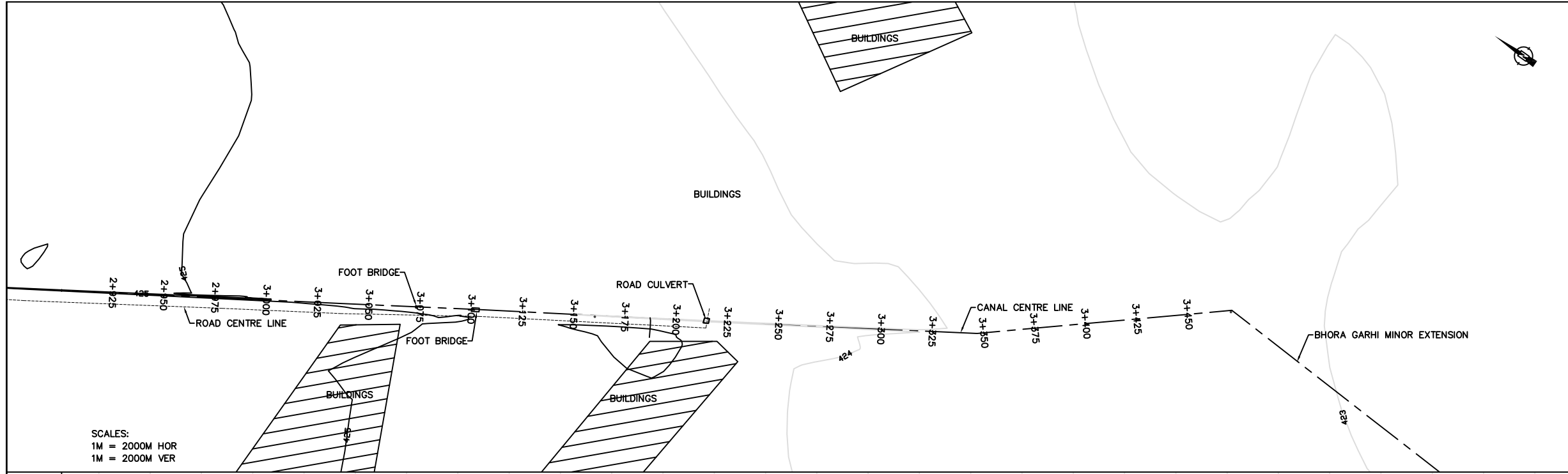
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PLAN AND PROFILE OF BHORA GARHI MINOR**

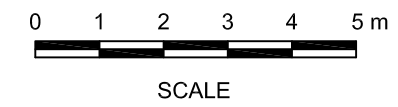
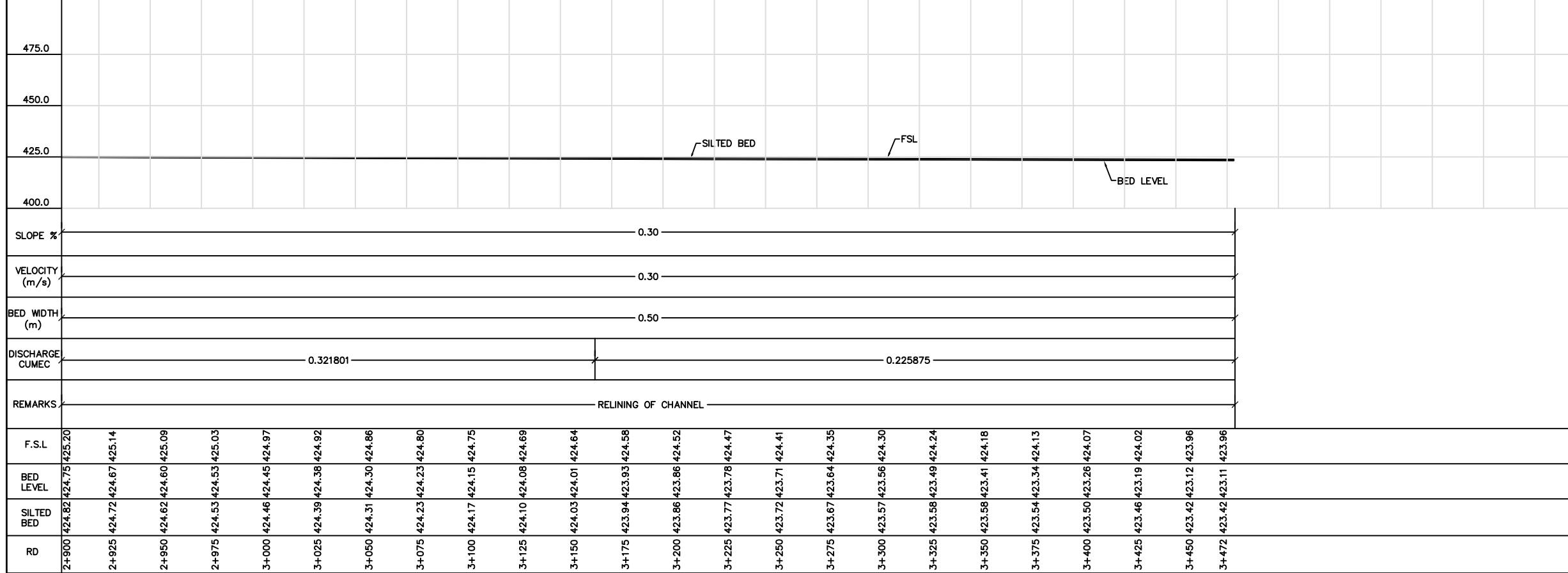
SCALE	DATE
Shown	JANUARY/2021

DRG.No:- TND-2004 SHEET:- 04 OF 05 SUB SH.-


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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

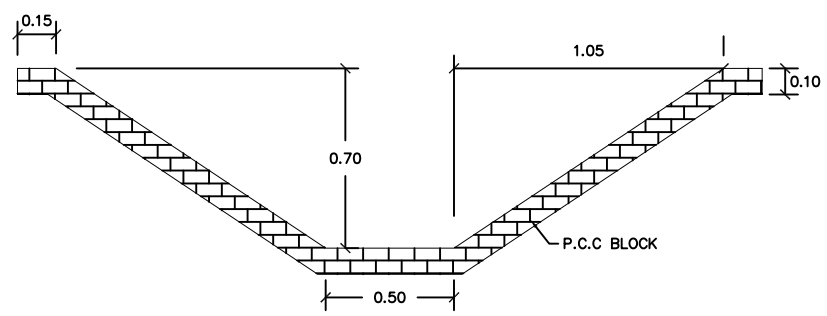
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF  
 BHORA GARHI MINOR**

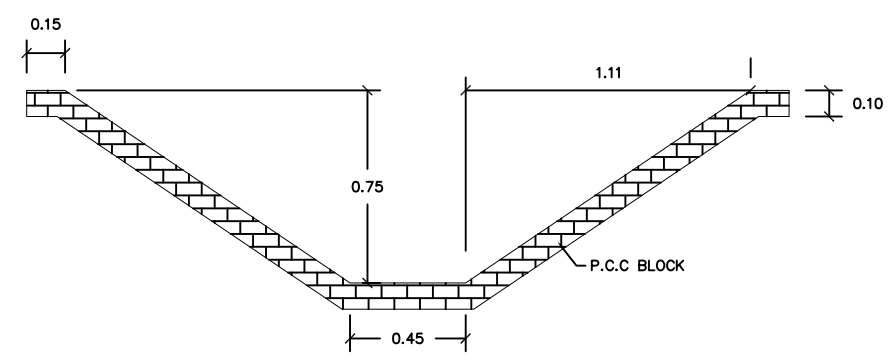
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2005 SHEET:- 05 OF 05 SUB SH.- ----

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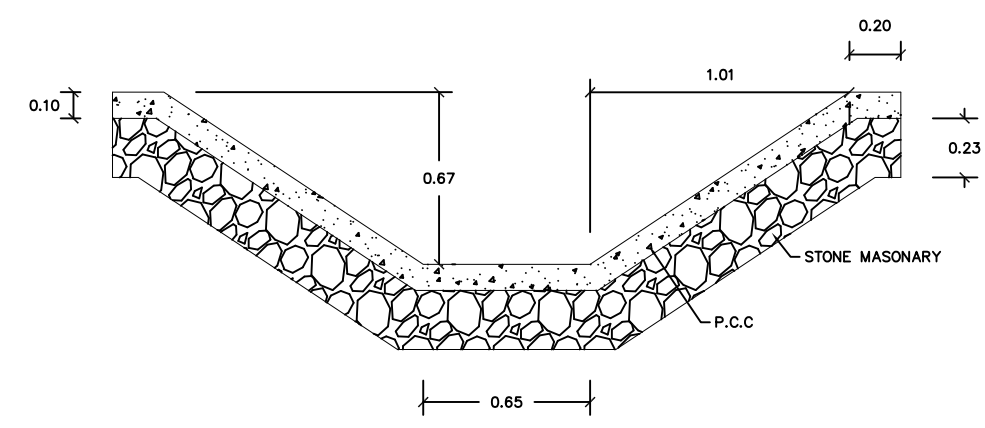


RD AT 0+00

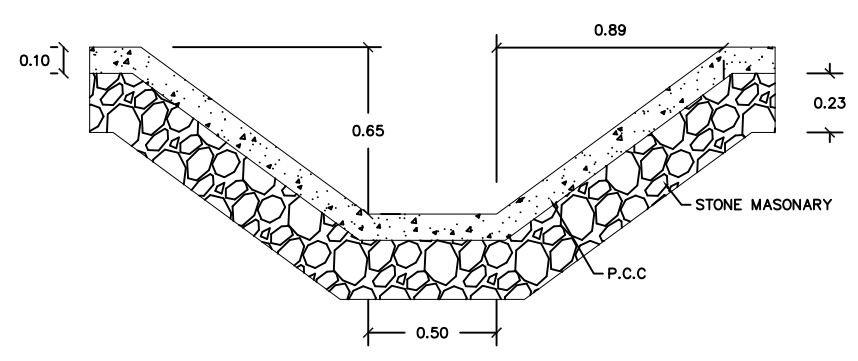


RD AT 0+787

RD 0+000 TO 0+787 PROPOSED DAMAGED SEC TO BE REPAIR IN A TOTAL LENGTH OF (200m)

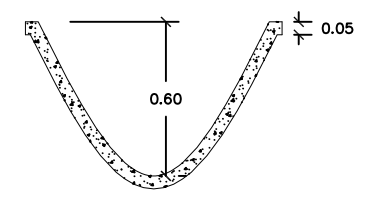


RD AT 0+793

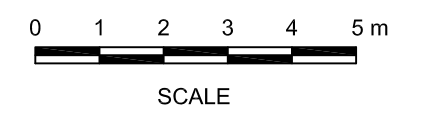


RD AT 2+764

RD 0+793 TO 2+764 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (392m)



RD AT 2+765 TO 3472



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

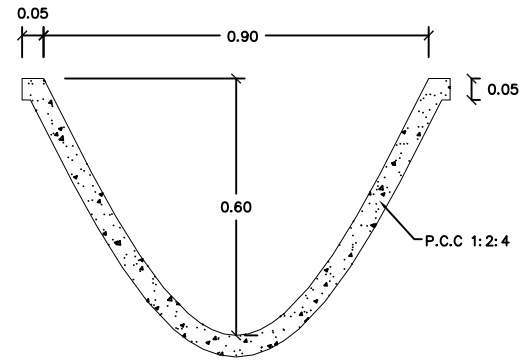
FS CONSULTANTS: CAMEOS  
 REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD., CASCADE GROUP OF ENGINEERING & CONSULTANTS, IN ASSOCIATION WITH: ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

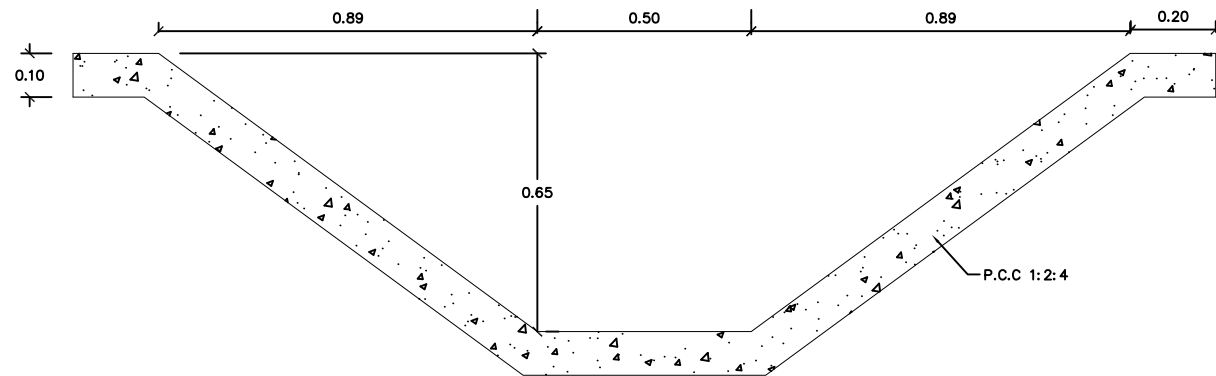
TITLE: EXISTING CROSS SECTIONS OF BHORA GARHI MINOR

DRG.No:- TND-2006	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

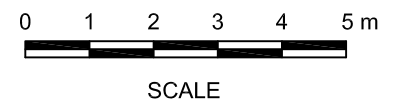
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RD AT 2+765 TO 3+472  
TO BE DISMANTELED







RD AT 2+765 TO 3+472  
SECTION TO BE REPLACED



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

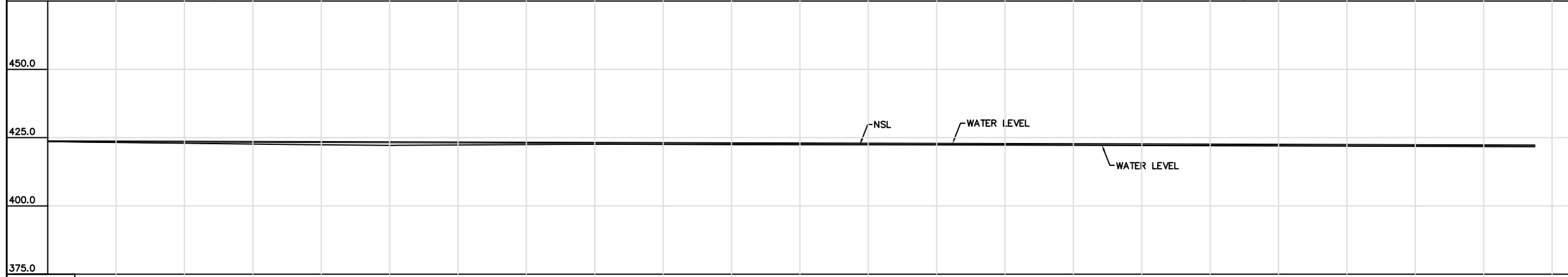
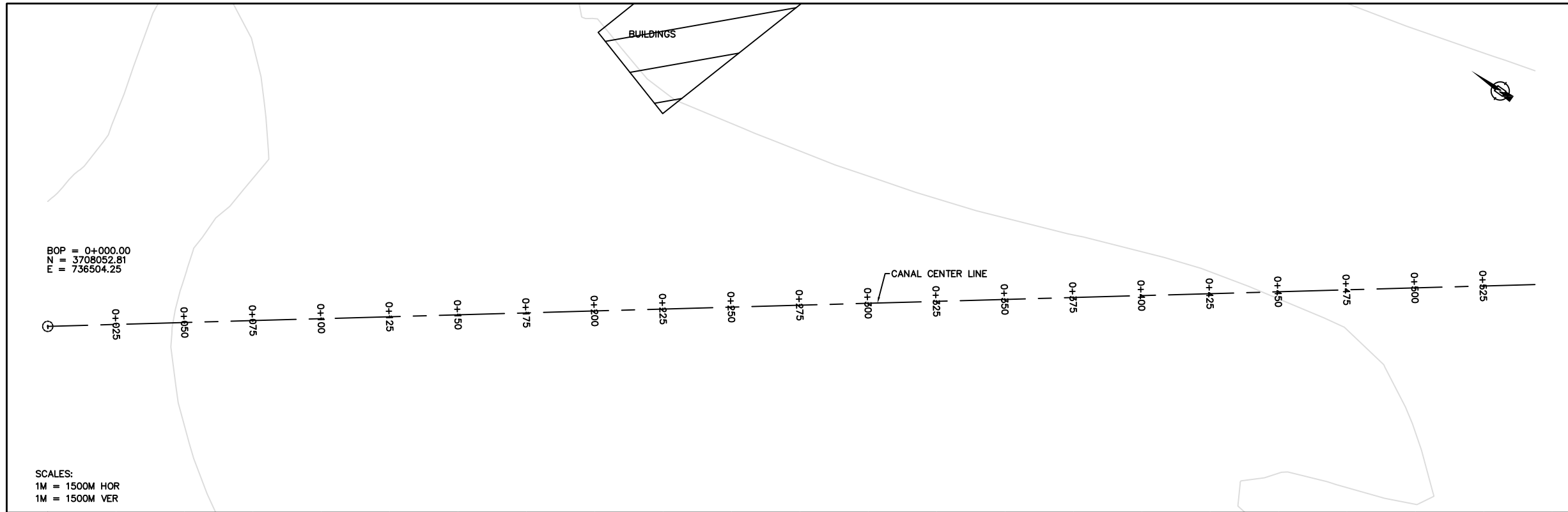
REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

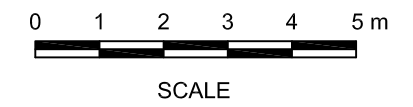
TITLE:  
**REPLACE CROSS SECTION OF BHORA GARI MINOR**

DRG.No:-	TND-2007	SHEET:-	01 OF 1	SUB SH.-	----
		SCALE	DATE		
		Shown	JANUARY 2021		

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SLOPE %	0.0028																						
V	1.19			1.21			1.2			1.18			1.22			1.19							
BED WIDTH (m)	0.5																						
DISCHARGE CUMEC	0.170778																						
WATER LEVEL	423.77	423.70	423.63	423.57	423.50	423.43	423.36	423.29	423.22	423.15	423.08	423.01	422.94	422.87	422.81	422.74	422.67	422.60	422.52	422.45	422.38	422.31	
BED LEVEL	423.39	423.32	423.25	423.18	423.11	423.04	422.97	422.90	422.83	422.76	422.69	422.62	422.55	422.48	422.42	422.35	422.28	422.21	422.14	422.07	422.00	421.93	421.86
NSL/SILTED BED	423.39	423.21	423.03	422.85	422.67	422.49	422.31	422.13	419.95	419.77	419.59	419.41	419.23	419.05	418.87	418.69	418.51	418.33	418.15	417.97	417.79	417.61	417.43
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525	



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

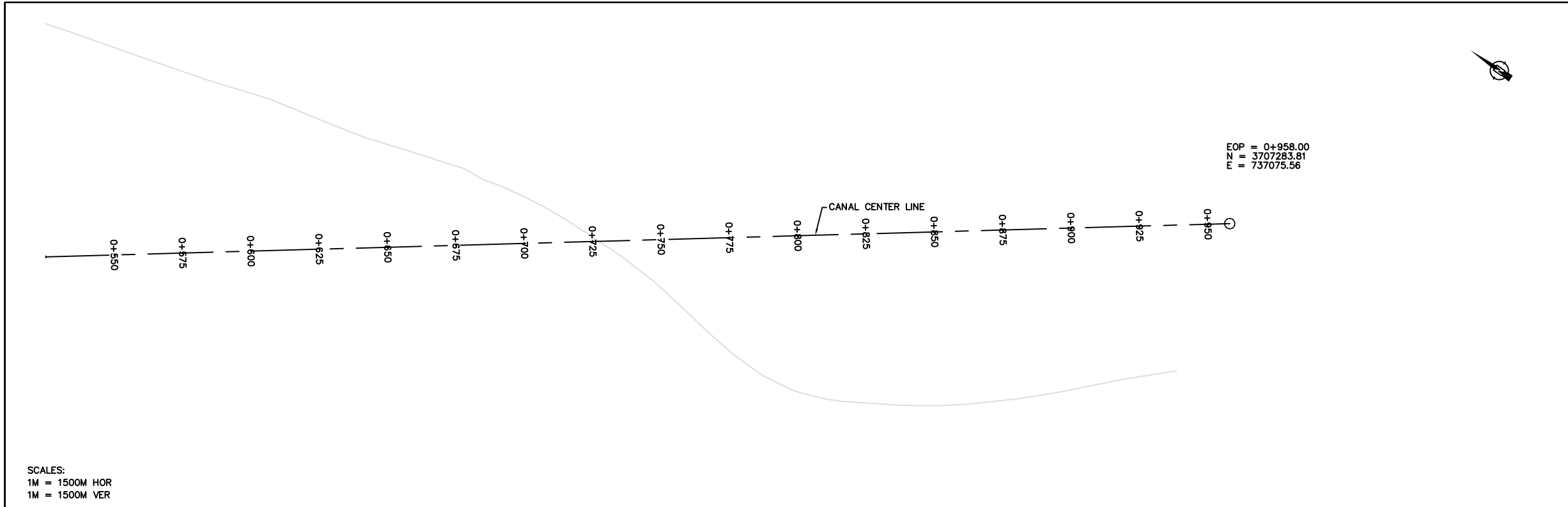
FS CONSULTANTS: **CAMEOS**  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF BORA GARI EXTENSION

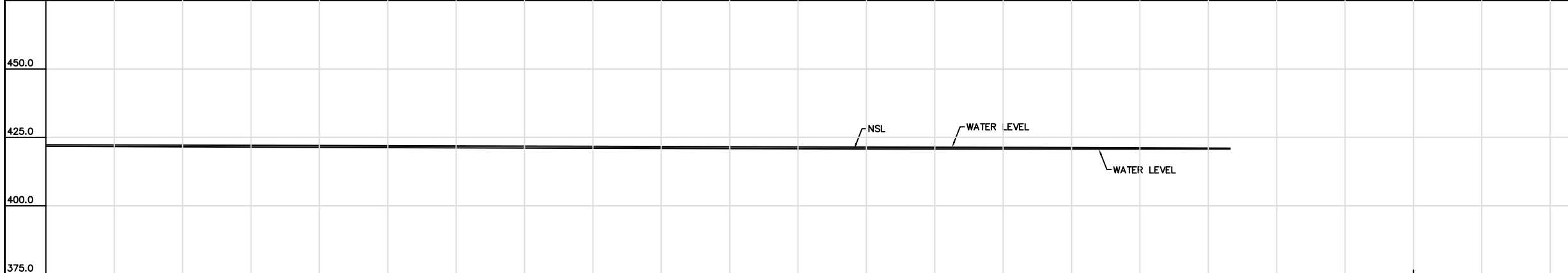
DRG.No:-	TND-2101	SHEET:-	1 OF 02	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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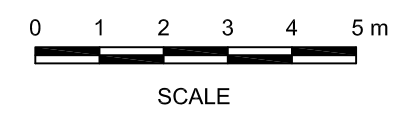


EOP = 0+958.00  
 N = 3707283.81  
 E = 737075.56

SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER



SLOPE %	0.0028																		
V	1.17			1.25				1.08				1.51							
BED WIDTH	0.5																		
DISCHARGE CUMEC	0.170778								0.082315										
WATER LEVEL	421.31	422.25	422.18	422.11	422.04	421.98	421.91	421.84	421.76	421.69	421.62	421.54	421.48	421.42	421.36	421.30	421.20	421.09	421.06
BED LEVEL	421.93	421.86	421.79	421.72	421.65	421.58	421.51	421.44	421.37	421.30	421.23	421.16	421.09	421.02	420.96	420.89	420.82	420.75	420.72
NSL/SILTED BED	421.72	421.64	421.52	421.41	421.30	421.19	421.11	421.05	421.00	420.94	420.87	420.80	420.72	420.69	420.69	420.70	420.71	420.72	420.72
RD	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS ETA IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

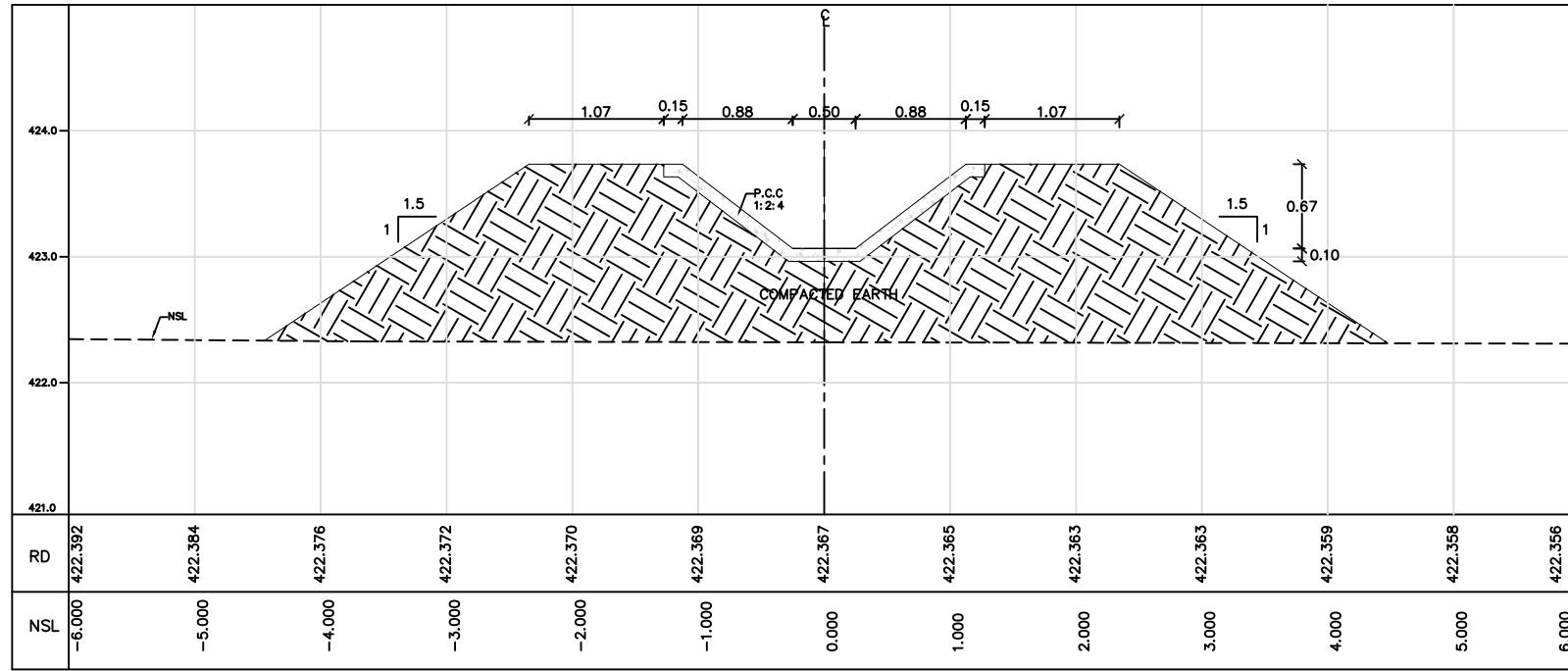
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF BORA GARI EXTENSION

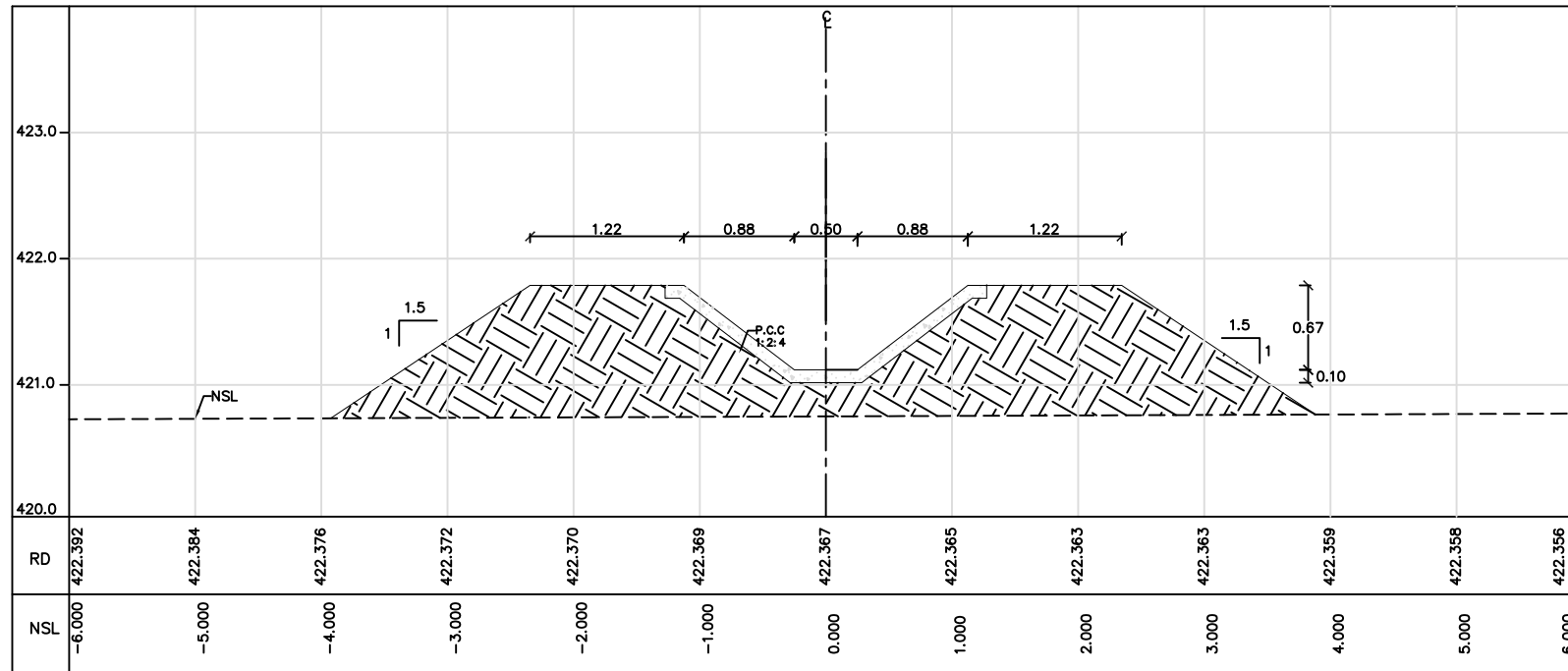
DRG.No:-	TND-2102	SHEET:-	2 OF 02	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----



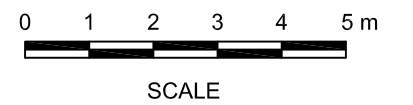
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AT RD 0+100







AT RD 0+800



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

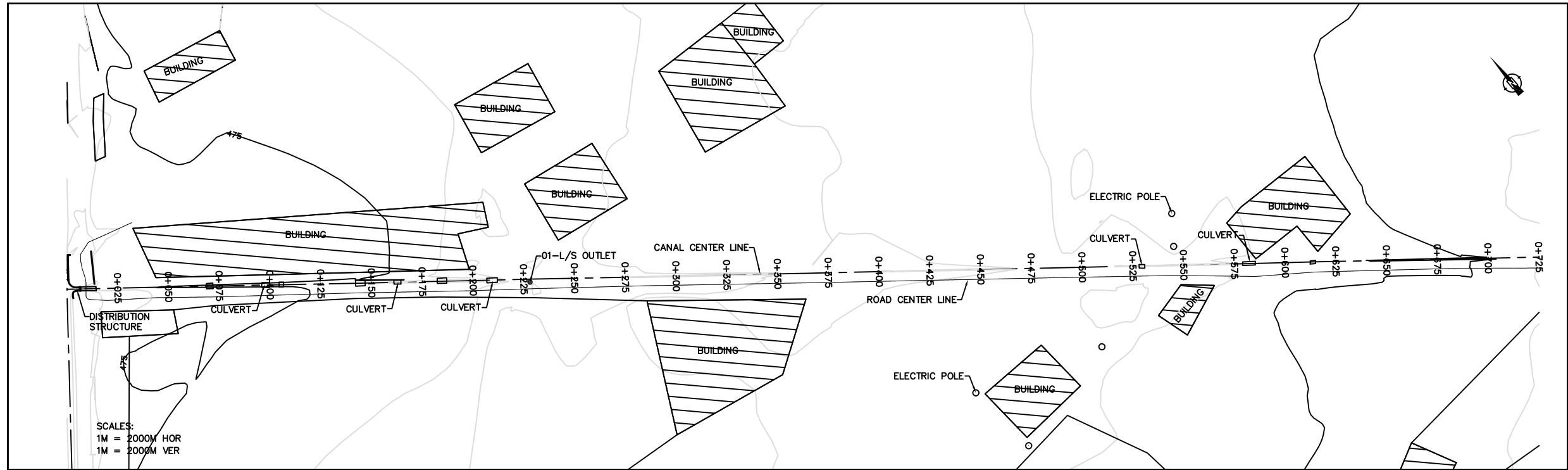
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 CASCADE GROUP OF  
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 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

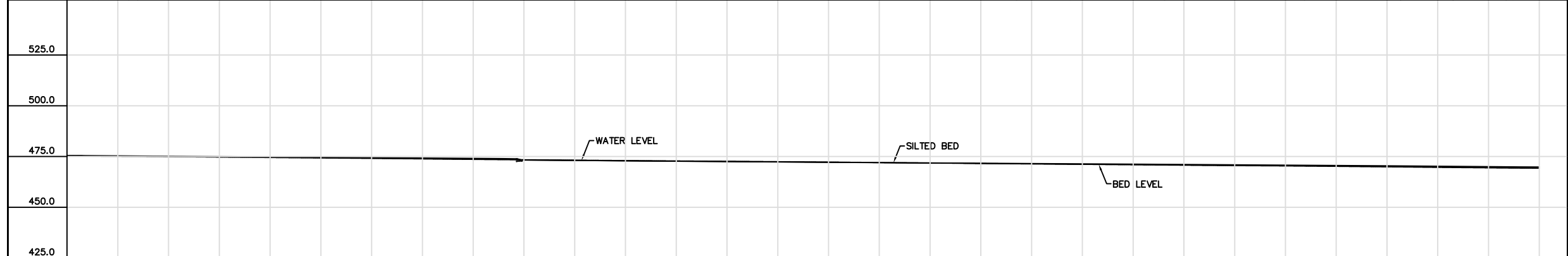
TITLE:  
 PLAN & PROFILE OF BORA GARI  
 EXTENSION

DRG.No:-	TND-2103	SHEET:-	1 OF 01	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

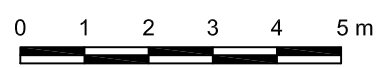
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SCALES:  
1M = 2000M HOR  
1M = 2000M VER





SLOPE %	0.7		0.7		0.7		0.7		0.7		0.7		0.7		0.7		0.7		0.7																					
VELOCITY (m/s)	1.48		1.48		1.48		1.18		1.3		1.13		1.37		1.37		1.08		1.08																					
BED WIDTH (m)	0.4		0.4		0.4		0.4		0.4		0.4		0.4m		0.4m		0.4		0.4																					
DISCHARGE CUMEC	0.132067																				0.109088																			
REMARKS	RE-LINGING OF CHANNEL				RE-LINGING OF CHANNEL				RE-LINGING OF CHANNEL				RE-LINGING OF CHANNEL				RE-LINGING OF CHANNEL				RE-LINGING OF CHANNEL				RE-LINGING OF CHANNEL															
F.S.L	475.48	475.26	475.31	475.13	474.96	474.79	474.61	474.43	474.25	474.07	473.32	473.08	472.84	472.60	472.41	472.29	472.17	472.05	471.91	471.74	471.56	471.39	471.22	471.06	470.90	470.74	470.57	470.38	470.19	470.00	469.83									
BED LEVEL	475.33	475.26	475.09	474.92	474.74	474.57	474.39	474.22	474.04	473.87	473.09	472.92	472.74	472.57	472.39	472.22	472.04	471.87	471.69	471.52	471.34	471.17	470.99	470.82	470.64	470.47	470.29	470.12	469.94	469.77	469.59									
SILTED BED	475.33	474.96	474.72	474.51	474.30	474.09	473.84	473.58	473.32	473.08	472.80	472.62	472.44	472.24	472.01	471.79	471.57	471.35	471.14	470.94	470.73	470.54	470.38	470.16	469.92	469.67	469.44	469.22	468.99	468.77	468.53									
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725										






SCALE

TENDER DRAWING

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

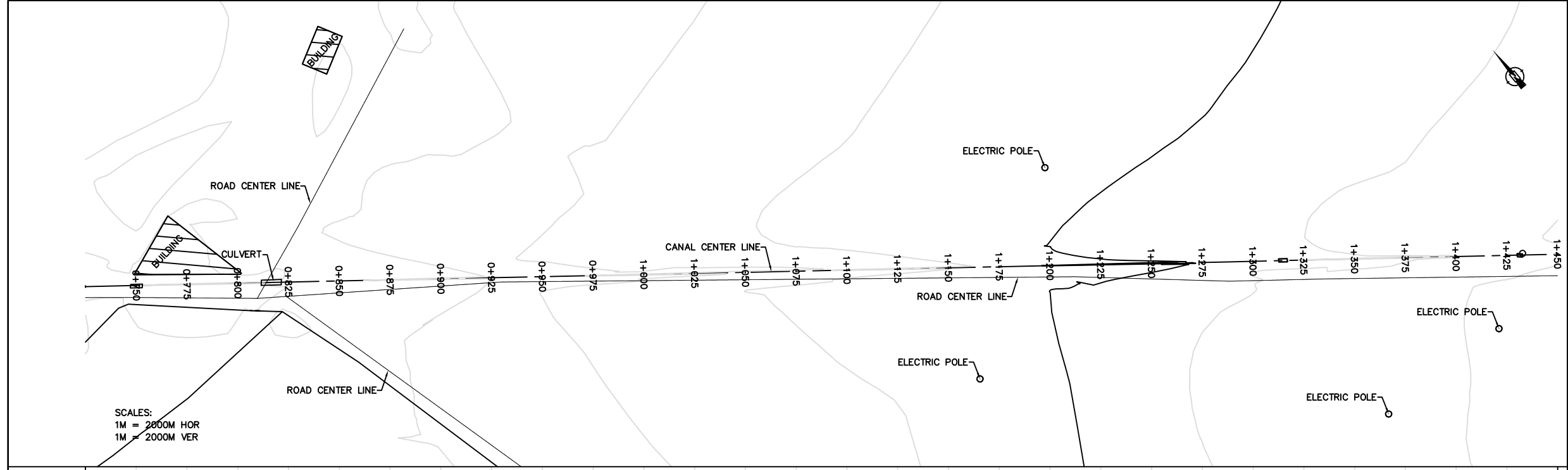
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 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
 **ETA** IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF BAHADAR KOT**

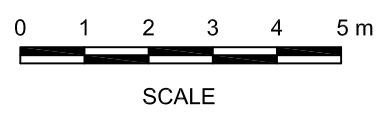
DRG.No:-	TND-2201	SHEET:-	01 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER



525.0																																																																																								
500.0																																																																																								
475.0																																																																																								
450.0																																																																																								
425.0																																																																																								
SLOPE %	0.7		0.7		0.7		0.7		0.7		0.7		0.72		0.72		0.72																																																																							
VELOCITY (m/s)	1.08		1.48		1.48		1.37		1.08		1.47		1.13		1.38		1.07																																																																							
BED WIDTH (m)	0.4		0.4		0.4		0.4		0.4		0.4		0.4		0.4		0.4																																																																							
DISCHARGE CUMEC	0.109088																																																																																							
REMARKS	DE-SILTING & REPAIRING		DE-SILTING & REPAIRING		DISTRIBUTION STRUCTURE		DE-SILTING & REPAIRING		DE-SILTING & REPAIRING		DE-SILTING & REPAIRING		DISTRIBUTION STRUCTURE		DE-SILTING & REPAIRING		RE-LINGING OF CHANNEL		RE-LINGING OF CHANNEL																																																																					
F.S.L	469.22	469.59	469.83	469.02	469.42	469.67	468.80	469.24	469.51	468.58	469.07	469.36	468.34	468.89	469.12	468.02	468.55	467.94	468.21	467.66	467.77	468.00	467.43	467.59	467.83	467.20	467.42	467.70	466.97	467.25	467.57	466.74	467.07	467.44	466.54	466.90	467.29	466.35	466.72	467.12	466.15	466.55	466.94	465.94	466.37	466.77	465.70	466.20	466.56	465.46	466.03	466.29	465.21	465.04	465.17	464.98	464.86	464.99	464.78	464.68	464.81	464.57	464.50	464.64	464.37	464.32	464.46	464.18	464.13	464.29	463.99	463.95	464.11	463.79	463.77	463.94	463.60	463.59	463.76	463.40	463.41	463.59	463.20	463.23	463.43	463.00	463.05	463.29
BED LEVEL	469.22	469.59	469.83	469.02	469.42	469.67	468.80	469.24	469.51	468.58	469.07	469.36	468.34	468.89	469.12	468.02	468.55	467.94	468.21	467.66	467.77	468.00	467.43	467.59	467.83	467.20	467.42	467.70	466.97	467.25	467.57	466.74	467.07	467.44	466.54	466.90	467.29	466.35	466.72	467.12	466.15	466.55	466.94	465.94	466.37	466.77	465.70	466.20	466.56	465.46	466.03	466.29	465.21	465.04	465.17	464.98	464.86	464.99	464.78	464.68	464.81	464.57	464.50	464.64	464.37	464.32	464.46	464.18	464.13	464.29	463.99	463.95	464.11	463.79	463.77	463.94	463.60	463.59	463.76	463.40	463.41	463.59	463.20	463.23	463.43	463.00	463.05	463.29
SILTED BED	469.22	469.59	469.83	469.02	469.42	469.67	468.80	469.24	469.51	468.58	469.07	469.36	468.34	468.89	469.12	468.02	468.55	467.94	468.21	467.66	467.77	468.00	467.43	467.59	467.83	467.20	467.42	467.70	466.97	467.25	467.57	466.74	467.07	467.44	466.54	466.90	467.29	466.35	466.72	467.12	466.15	466.55	466.94	465.94	466.37	466.77	465.70	466.20	466.56	465.46	466.03	466.29	465.21	465.04	465.17	464.98	464.86	464.99	464.78	464.68	464.81	464.57	464.50	464.64	464.37	464.32	464.46	464.18	464.13	464.29	463.99	463.95	464.11	463.79	463.77	463.94	463.60	463.59	463.76	463.40	463.41	463.59	463.20	463.23	463.43	463.00	463.05	463.29
RD	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400	1+425	1+450																																																										



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

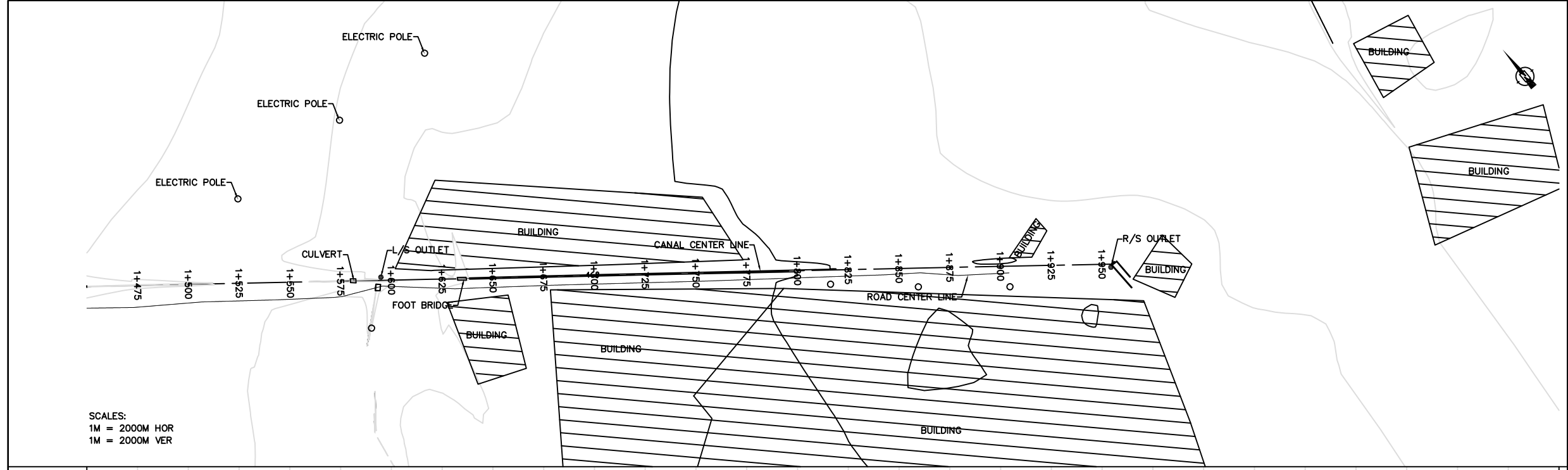
FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 ETA IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

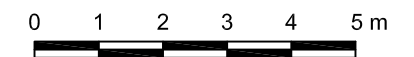
TITLE:  
**PLAN AND PROFILE OF  
 BAHADAR KOT**

DRG.No:-	TND-2202	SHEET:-	02 OF 03	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021



SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER

500.0																																												
475.0																																												
450.0																																												
425.0																																												
400.0																																												
SLOPE %	0.72		0.72		0.7		0.2		0.2		0.2		0.2		0.2		0.2																											
VELOCITY (m/s)	1.07		1.48		1.48		0.75		0.72		0.63		0.63		0.63		0.63																											
BED WIDTH (m)	0.4		0.4		0.4		0.45		0.45		0.45		0.45		0.45		0.45																											
DISCHARGE CUMEC	0.109088		0.109088		0.109088		0.17856		0.17856		0.17856		0.17856		0.17856		0.17856																											
REMARKS	RE-LINGING OF CHANNEL		RE-LINGING OF CHANNEL		DISTRIBUTION STRUCTURE		RE-LINGING OF CHANNEL		DISTRIBUTION STRUCTURE		RE-LINGING OF CHANNEL		RE-LINGING OF CHANNEL		RE-LINGING OF CHANNEL		RE-LINGING OF CHANNEL																											
F.S.L	463.29	463.29	463.00	463.00	462.83	462.83	462.59	462.59	462.30	462.30	461.60	461.60	461.43	461.43	460.03	460.03	459.98	459.98	459.93	459.93	459.88	459.88	459.83	459.83	459.77	459.77	459.72	459.72	459.68	459.68	459.65	459.65	459.62	459.62	459.58	459.58	459.53	459.53	459.44	459.44				
BED LEVEL	463.00	463.00	462.80	462.80	462.56	462.56	462.32	462.32	462.09	462.09	461.37	461.37	461.09	461.09	459.96	459.96	459.76	459.76	459.89	459.89	459.71	459.71	459.80	459.80	459.66	459.66	459.83	459.83	459.53	459.53	459.45	459.45	459.65	459.65	459.25	459.25	459.35	459.35	459.62	459.62	459.25	459.25	459.20	459.20
SILTED BED	463.00	463.00	462.80	462.80	462.56	462.56	462.32	462.32	462.09	462.09	461.37	461.37	461.09	461.09	459.96	459.96	459.76	459.76	459.89	459.89	459.71	459.71	459.80	459.80	459.66	459.66	459.83	459.83	459.53	459.53	459.45	459.45	459.65	459.65	459.25	459.25	459.35	459.35	459.62	459.62	459.25	459.25	459.20	459.20
RD	1+450	1+475	1+500	1+525	1+550	1+575	1+600	1+625	1+650	1+675	1+700	1+725	1+750	1+775	1+800	1+825	1+850	1+875	1+900	1+925	1+950																							



SCALE

TENDER DRAWING

CLIENT:  

 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

 CAMEOS

REVIED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  

 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  

 CASCADE GROUP OF ENGINEERING & CONSULTANTS  

 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

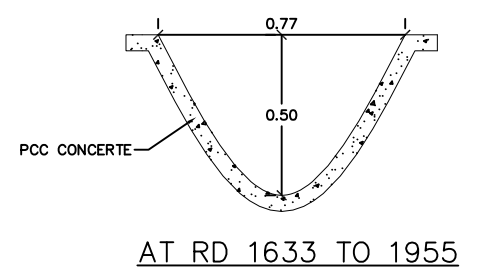
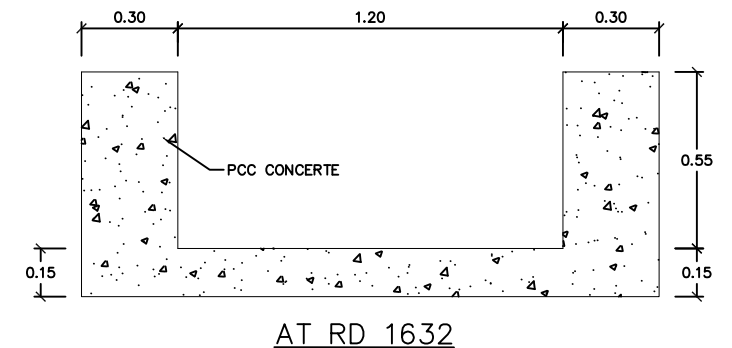
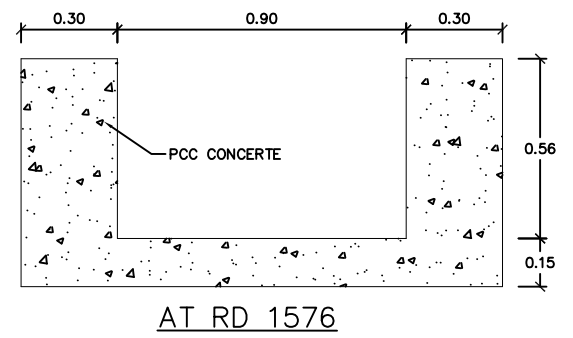
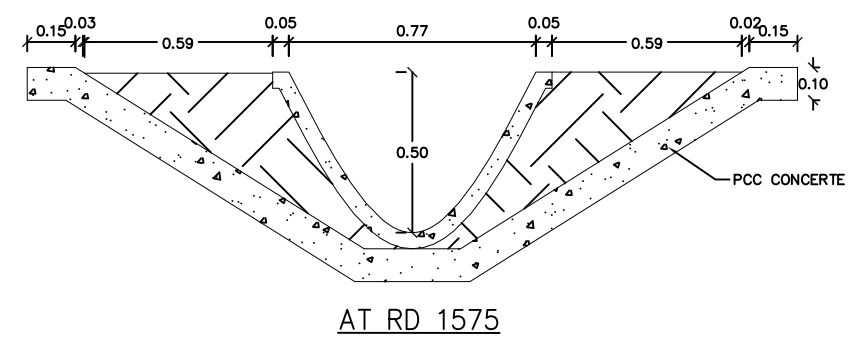
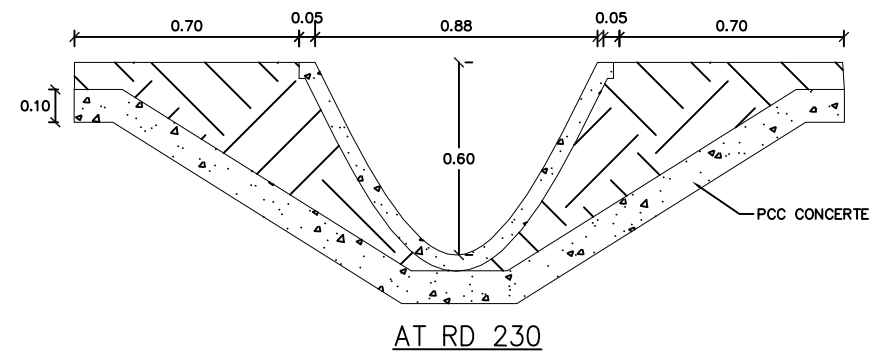
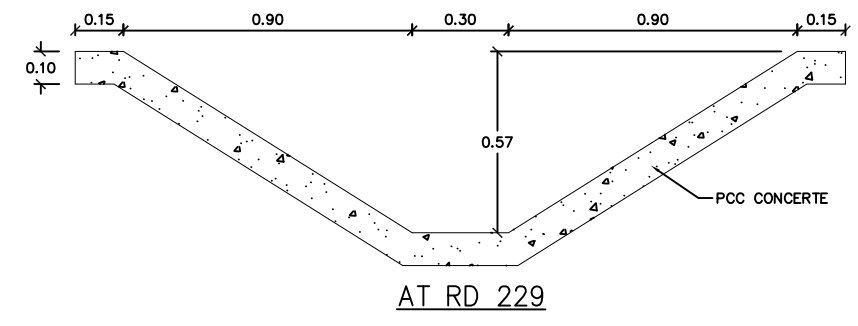
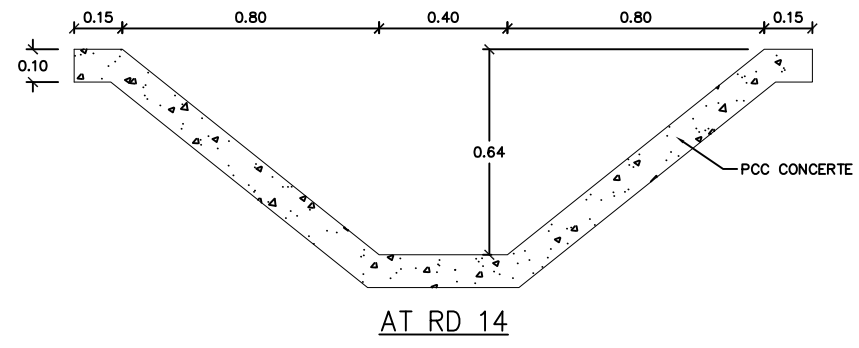
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF  
 BAHADAR KOT**

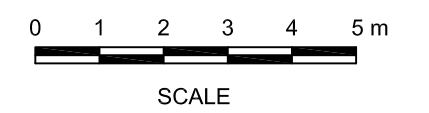
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2203 SHEET:- 03 OF 03 SUB SH.- ----

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NOTE: - ALL SECTIONS WILL BE DISMANTLED AND REPLACED WITH NEW SECTIONS GIVEN IN DWG NO-2205



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

REVIEWED & UPDATED FOR TENDER BY: A Joint Venture of: REHMAN HABIB CONSULTANTS (PVT.) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS

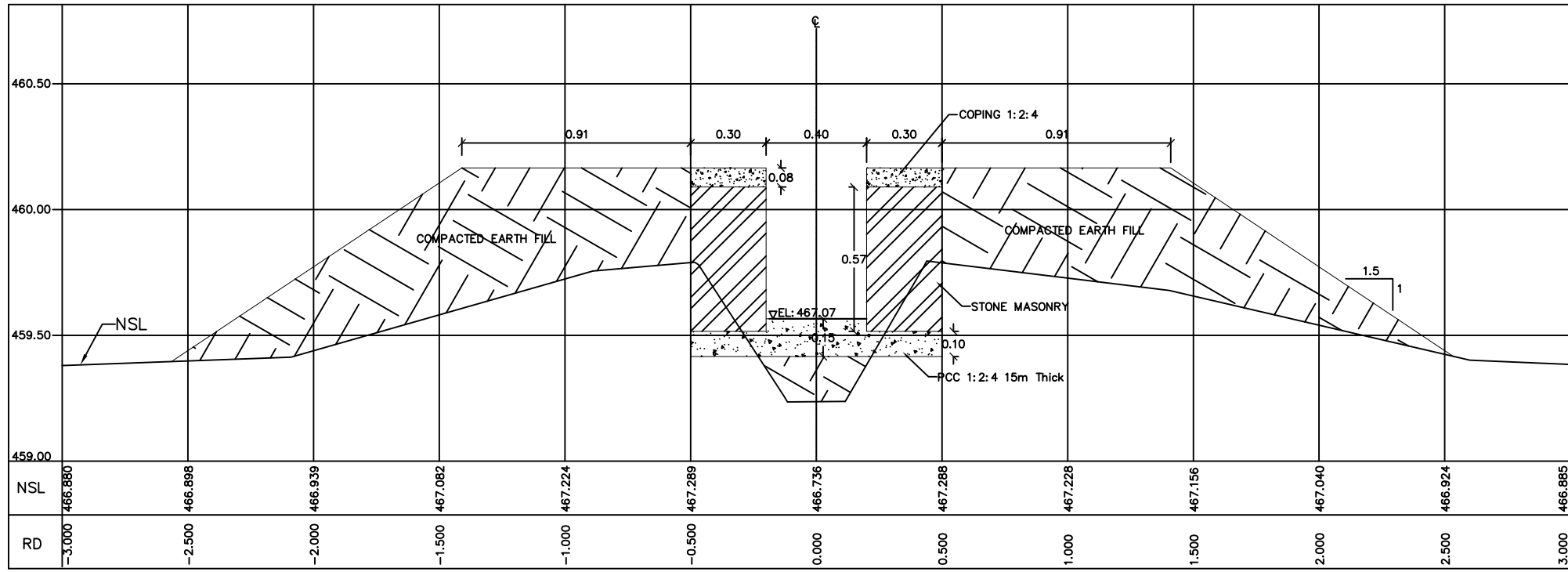
IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

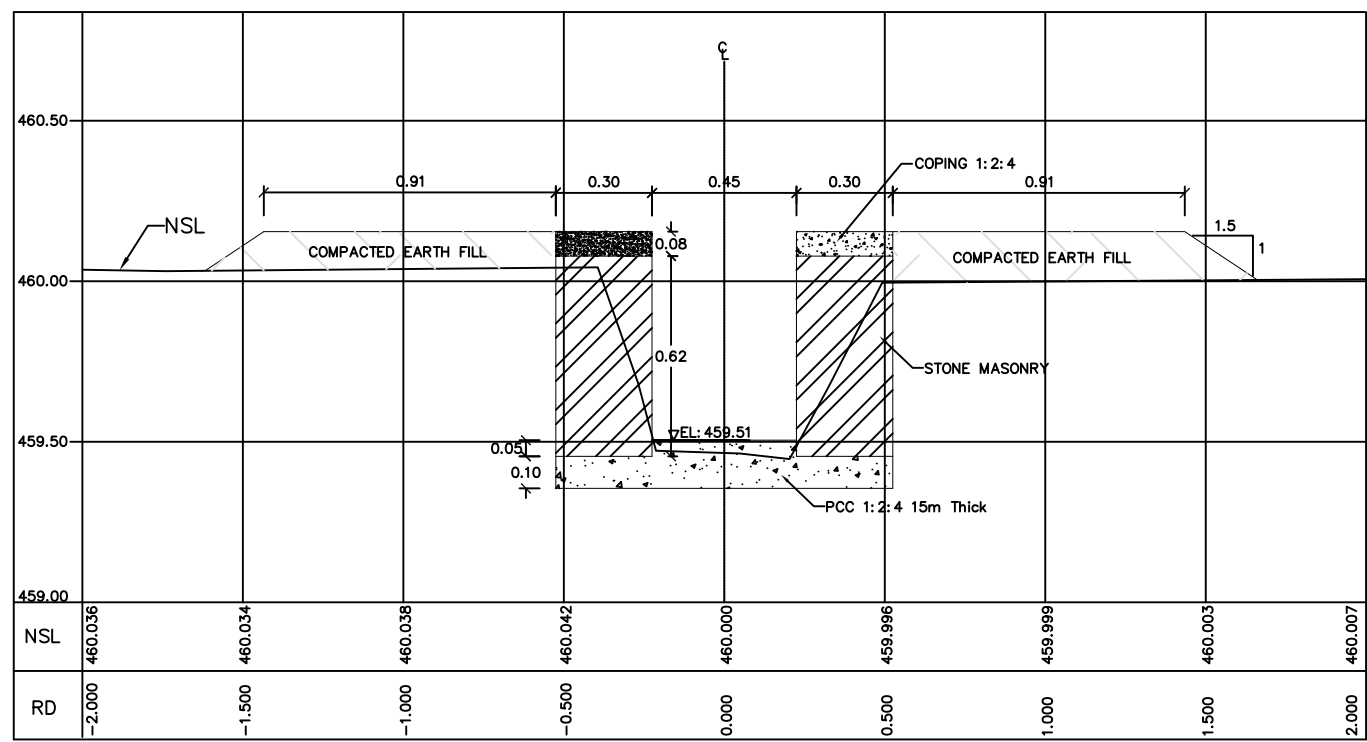
TITLE: CROSS SECTION OF EXISTING CANAL OF BAHADAR KOT

DRG.No:- TND-2204	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

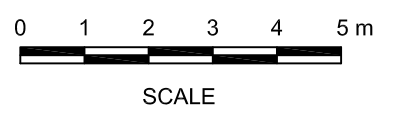
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AT RD 14 TO 1632







AT RD 1632 TO 1955



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

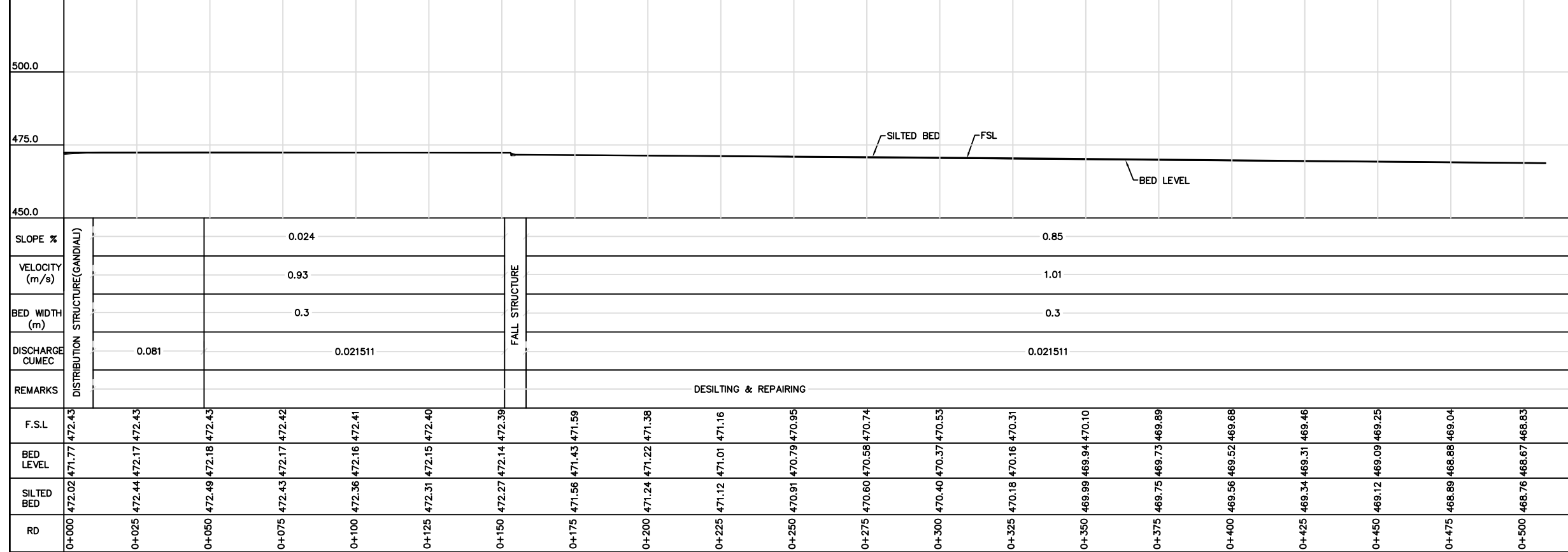
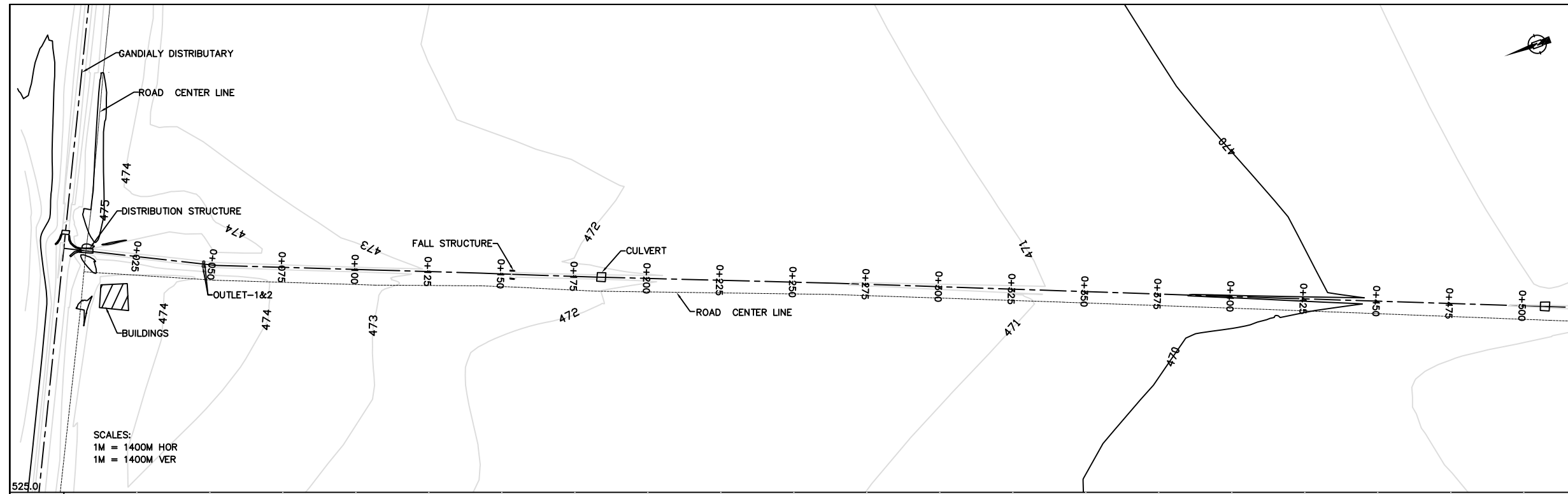
REVISED & UPDATED FOR TENDER BY:  
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 ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

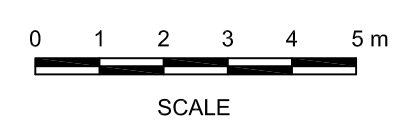
TITLE:  
**RE-LINING CROSS SECTION  
 OF BAHADAR KOT**

DRG.No:-	TND-2205	SHEET:-	1 OF 01	SCALE	DATE
				Shown	JANUARY 2021
		SUB SH.-	----		

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SLOPE %		0.024			0.85																		
VELOCITY (m/s)		0.93			1.01																		
BED WIDTH (m)		0.3			0.3																		
DISCHARGE CUMEC	0.081	0.021511			0.021511																		
REMARKS		FALL STRUCTURE			DESILTING & REPAIRING																		
F.S.L	472.43	472.43	472.43	472.42	472.41	472.40	472.39	471.59	471.38	471.16	471.01	470.95	470.74	470.53	470.31	470.10	469.89	469.68	469.46	469.25	469.04	468.83	
BED LEVEL	471.77	472.17	472.18	472.17	472.16	472.15	472.14	471.43	471.22	471.01	470.79	470.58	470.37	470.16	469.94	469.73	469.52	469.31	469.12	468.99	468.88	468.67	468.83
SILTED BED	472.02	472.44	472.49	472.43	472.36	472.31	472.27	471.56	471.24	471.12	470.91	470.60	470.40	470.18	469.99	469.75	469.56	469.34	469.12	468.89	468.76	468.83	468.83
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500		



TENDER DRAWING

CLIENT:  

 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  

 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  

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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  

 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

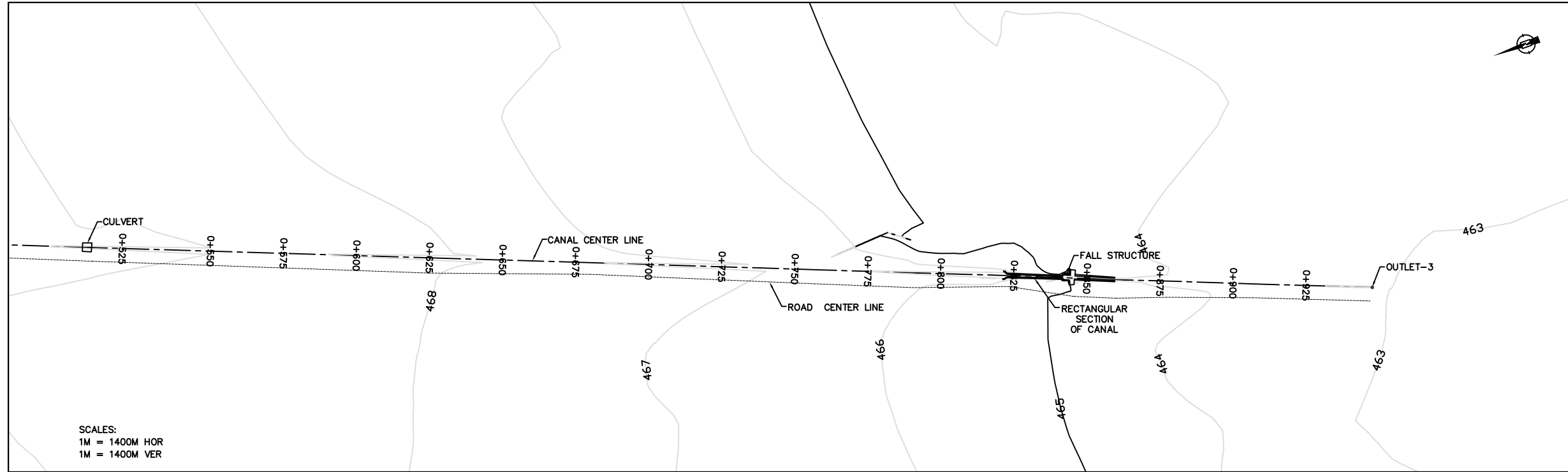
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF TOGH BALA MINOR**

SCALE	DATE
Shown	JANUARY 2021

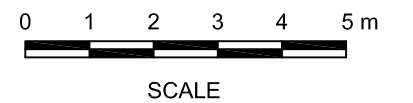
DRG.No:- TND-2301 SHEET:- 01 OF 02 SUB SH.- ----

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SCALES:  
1M = 1400M HOR  
1M = 1400M VER

RD	0+500	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	
F.S.L	468.83	468.61	468.40	468.14	467.88	467.63	467.37	467.11	466.85	466.59	466.33	466.07	465.82	465.53	465.36	463.26	463.17	463.08				
BED LEVEL	468.67	468.46	468.40	467.99	467.73	467.47	467.22	466.96	466.70	466.44	466.19	465.93	465.67	465.20	463.22	463.12	463.03	462.94				
SILTED BED	468.76	468.51	468.30	468.01	467.74	467.47	467.23	466.96	466.72	466.45	466.20	465.94	465.68	465.22	463.41	463.31	463.16	463.03				
SLOPE %				0.85										1.89				0.37				
VELOCITY (m/s)				1.01										1.06				0.97				
BED WIDTH (m)				0.30										0.7				0.30				
DISCHARGE CUMEC				0.021511										0.021511				0.021511				
REMARKS				DESILTING & REPAIRING																		



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 ETA IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

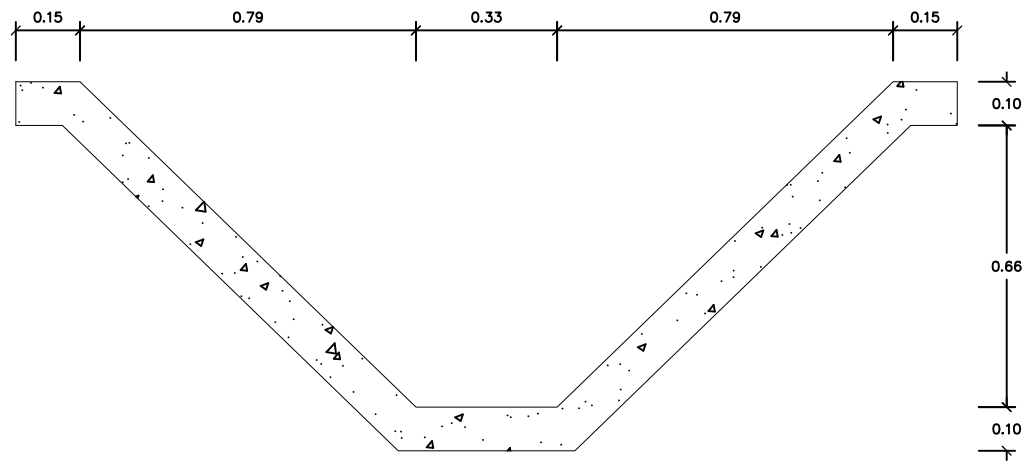
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF TOGH BALA MINOR**

DRG.No:- TND-2302	SHEET:- 02 OF 2	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

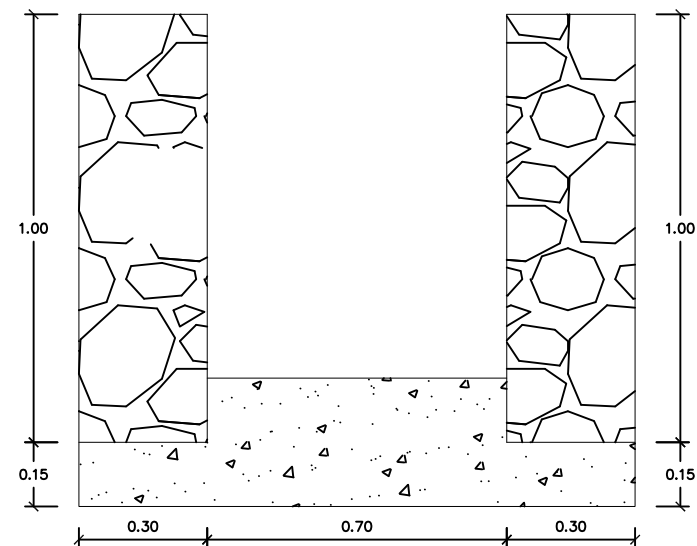


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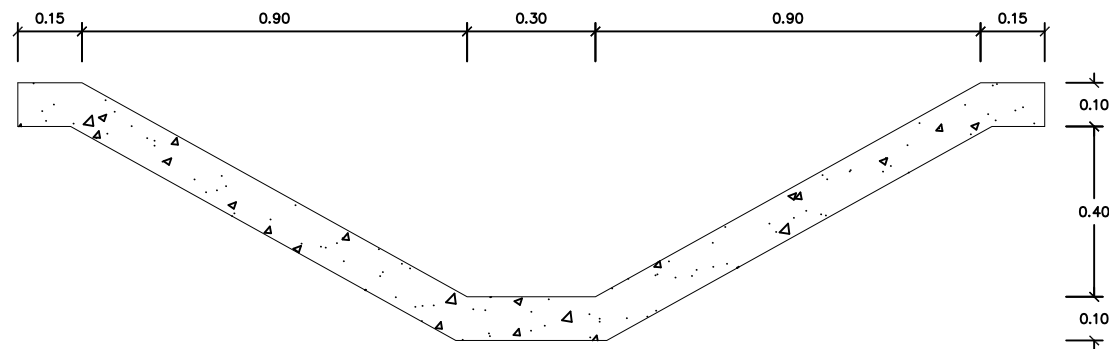
RD 10 TO 820

RD 0+010 TO 0+820 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (220m)



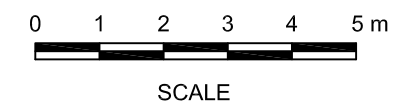
RD 821 TO 840

RD 0+821 TO 0+840 PROPOSED DAMAGED STONE WORK TO BE REPAIR IN A TOTAL LENGTH OF (10m)



RD 841 TO 925

RD 0+841 TO 0+925 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/ REPAIR IN A TOTAL LENGTH OF (28m)



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

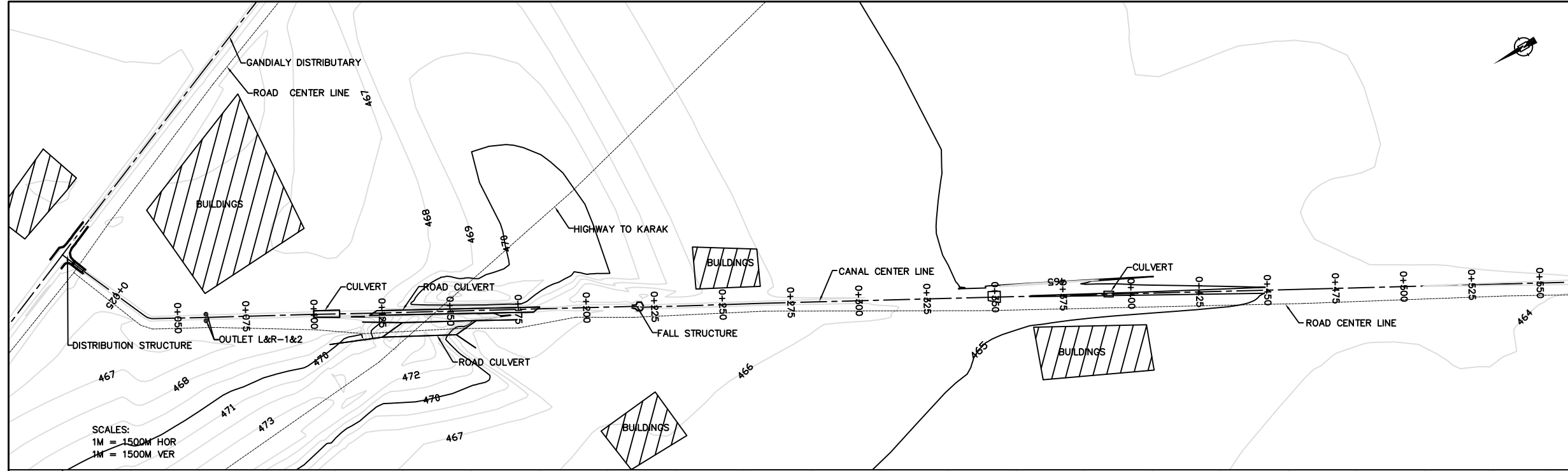
FS CONSULTANTS: CAMEOS RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS IN ASSOCIATION WITH: ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

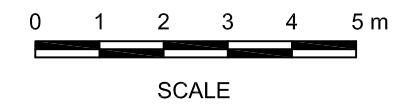
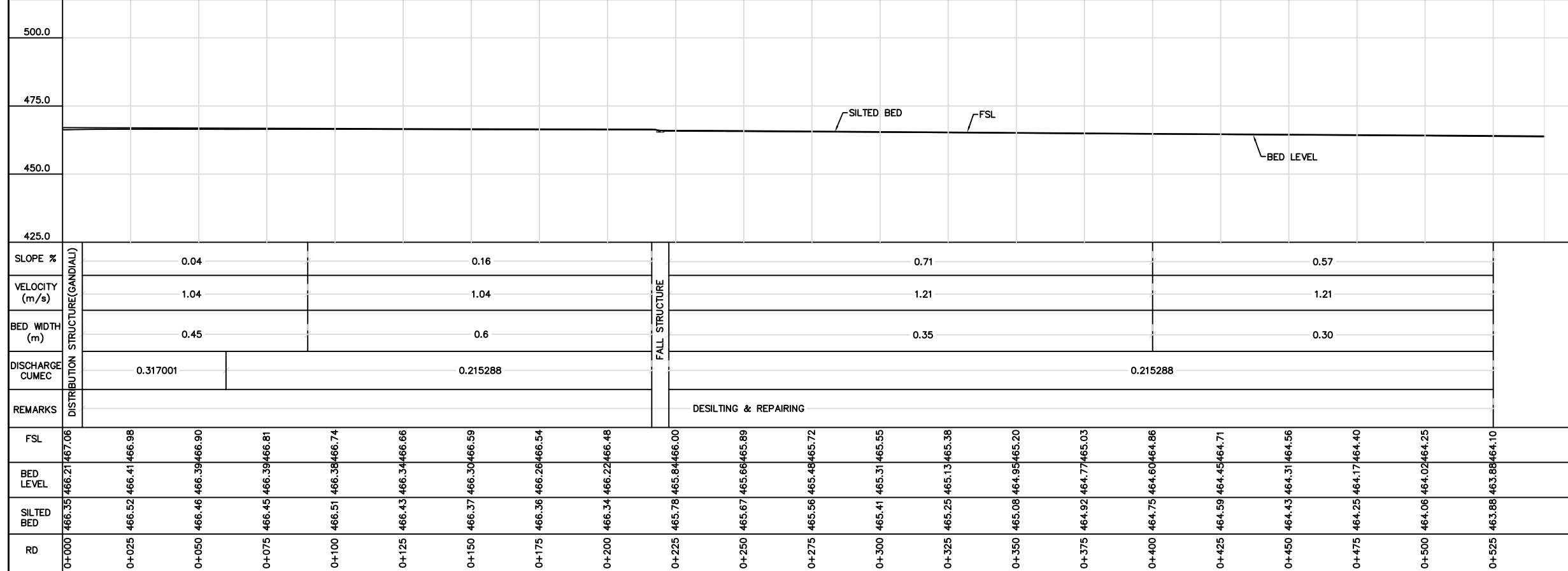
TITLE: EXISTING CROSS SECTION OF TOGH BALA MINOR

SCALE	DATE
Shown	JANUARY 2021
DRG.No:- TND-2303	SHEET:- 1 OF 01
	SUB SH.-

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

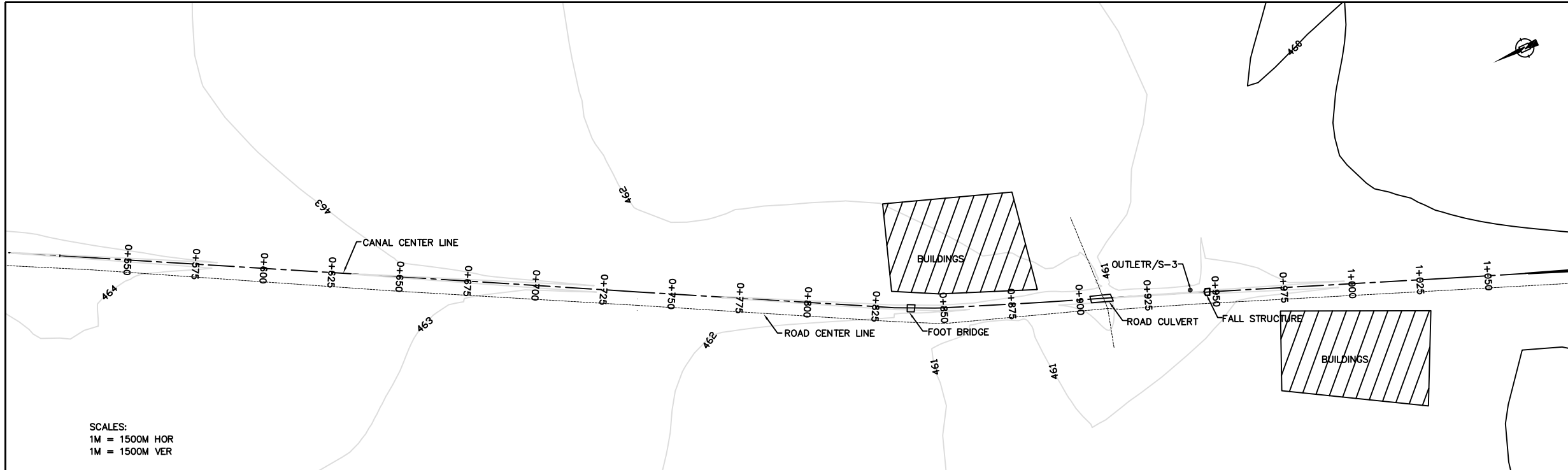
REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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 ETA IN ASSOCIATION WITH:  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

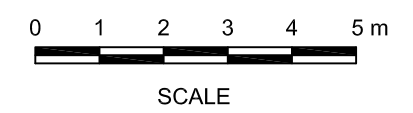
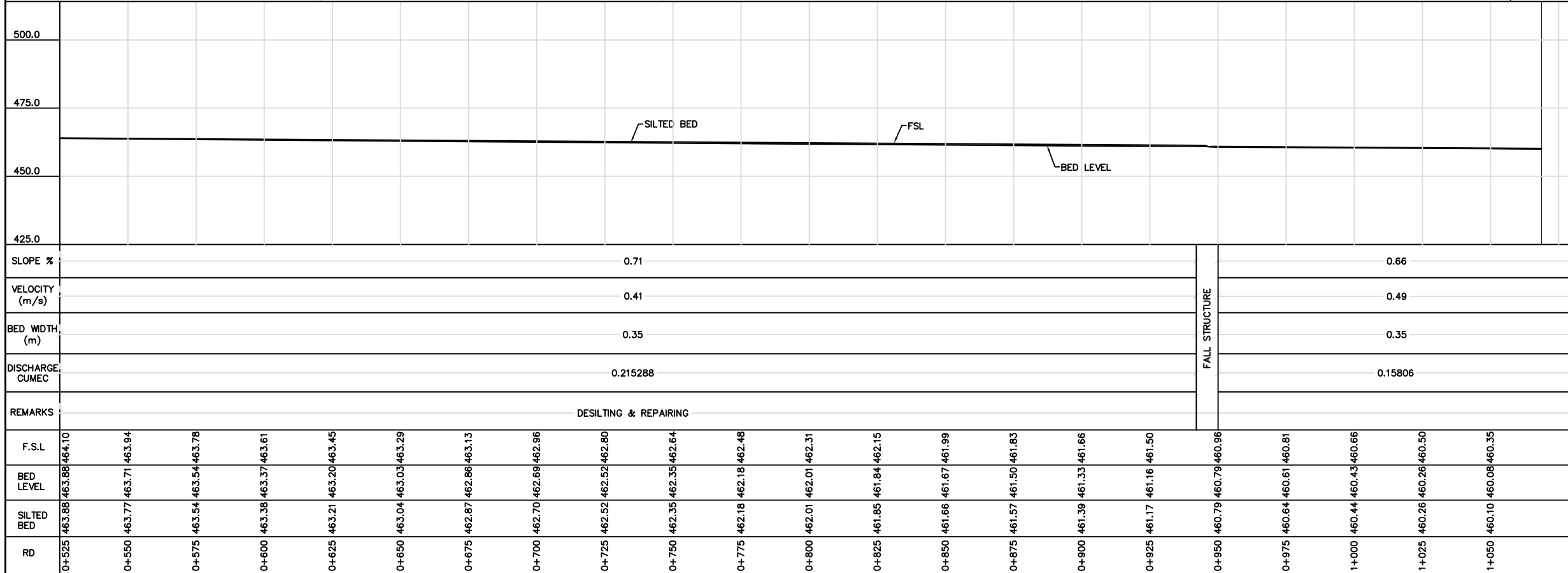
TITLE:  
**PLAN AND PROFILE OF  
 TOGH PAYAN**

DRG.No:- TND-2401	SHEET:- 01 OF 03	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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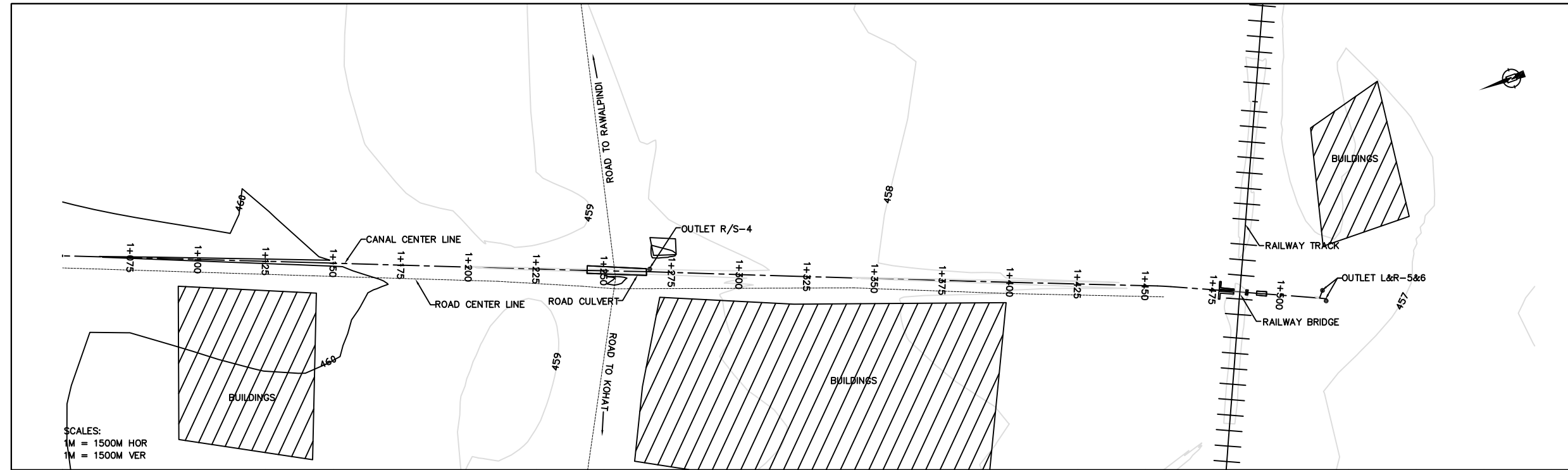
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN AND PROFILE OF TOGH PAYAN**

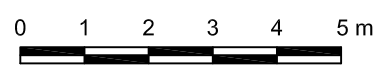
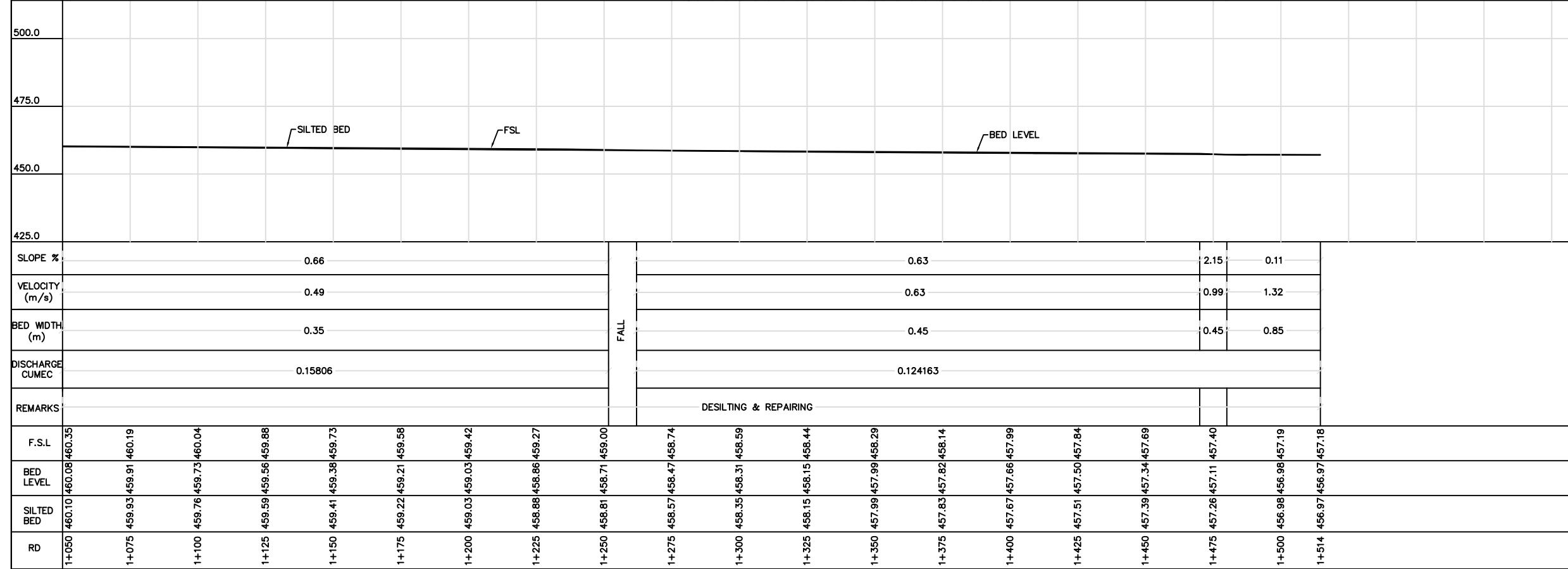
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2402 SHEET:- 02 OF 03 SUB SH.- ----

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SCALES:  
1M = 1500M HOR  
1M = 1500M VER






SCALE

TENDER DRAWING

CLIENT:  

**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

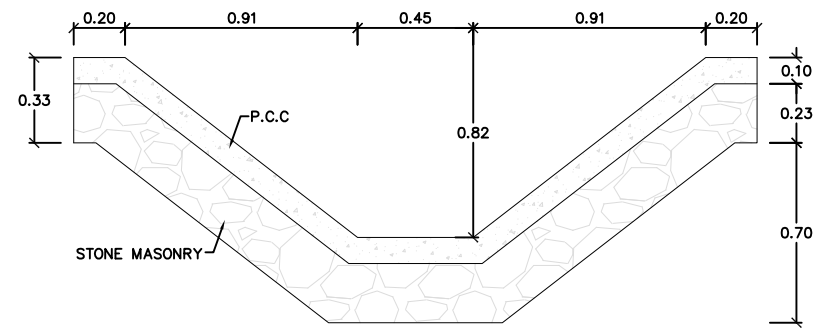
FS CONSULTANTS:  

**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  

**RHC**  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  

**ETA**  
 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

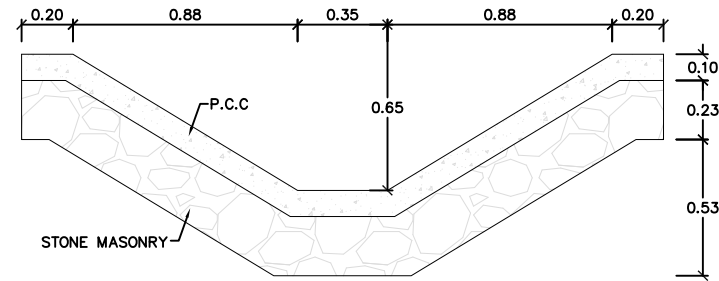
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PLAN AND PROFILE OF  
 TOGH PAYAN**

DRG.No:-	TND-2403	SHEET:-	03 OF 03	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

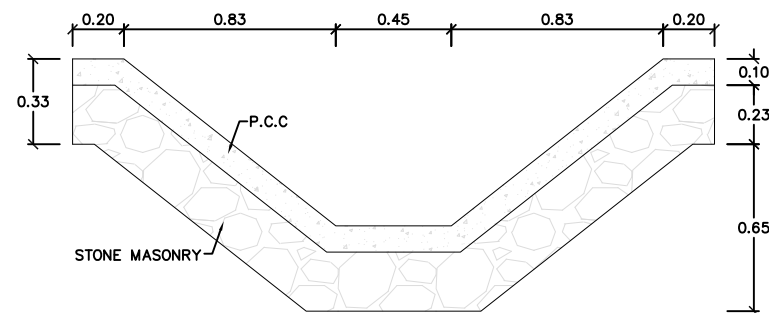


RD AT 013



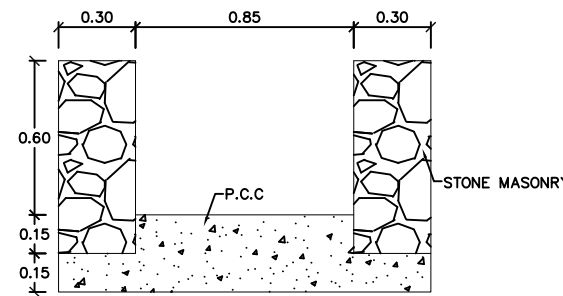
RD AT 940

RD 0+010 TO 0+940 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (300m)

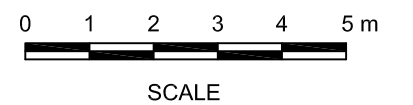


RD AT 1477

RD 0+940 TO 1+477 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (185m)




RD AT 1478 TO 1514






SCALE

TENDER DRAWING

CLIENT:  KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  CAMEOS

REVISED & UPDATED FOR TENDER BY:  
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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

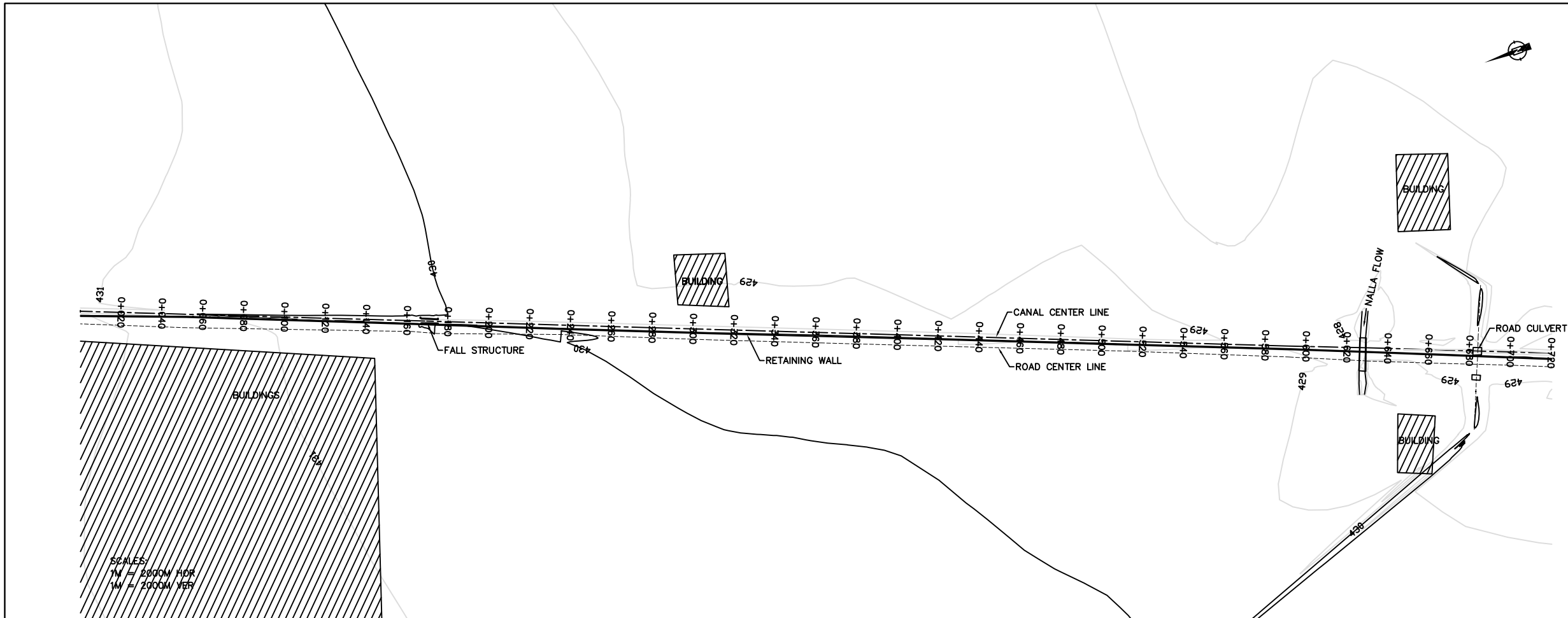
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**EXISTING CROSS SECTION OF TOGH PAYAN**

DRG.No:- TND-2404	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

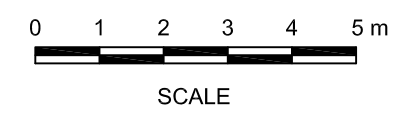
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SCALES:  
 1:1M = 2000M HOR  
 1:1M = 2000M VERT

440.0																																								
420.0			SILTED BED		FSL																																			
400.0					BED LEVEL																																			
SLOPE %	0.98		FALL STRUCTURE (REPAIRING)		0.098																																			
VELOCITY (m/s)	1.46				1.33																																			
BED WIDTH (m)	0.6				0.75																																			
DISCHARGE CUMEC	0.587305				0.587305																																			
REMARKS	DESILTING AND REPAIR																																							
F.S.L	0+000	0+020	0+040	0+080	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720			
BED LEVEL	430.62	430.71	430.48	430.26	430.03	429.81	429.58	429.36	429.25	428.73	428.51	428.51	428.51	428.51	428.51	428.51	428.51	428.50	428.50	428.50	428.50	428.50	428.50	428.50	428.50	428.50	428.50	428.50	428.49	428.49	428.49	428.49	428.49	428.49	428.49	428.49	428.49	428.49	428.49	
SILTED BED	430.64	430.43	430.24	430.05	429.86	429.67	429.49	429.30	429.09	428.47	428.40	428.34	428.28	428.27	428.26	428.26	428.21	428.17	428.13	428.11	428.10	428.07	428.05	428.04	428.04	428.03	428.03	428.03	427.99	427.91	427.89	427.87	427.85	427.83	427.81	427.79	427.78	427.78	427.85	427.76
RD	0+000	0+020	0+040	0+080	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720			



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
**CASCADE** CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH:  
**ETA** ENGINEERING & TECHNICAL ASSOCIATES

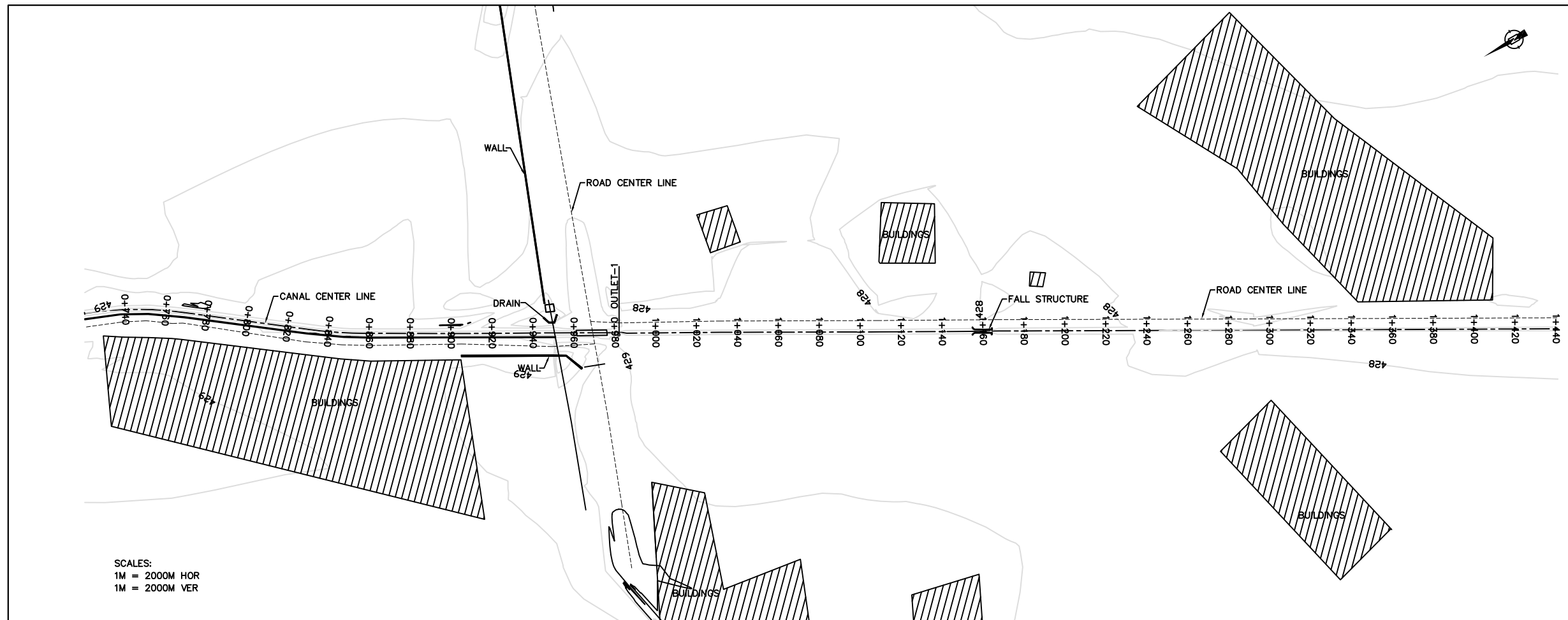
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 BABRI BANDA**

SCALE	DATE
Show: 1:1	JANUARY 2021

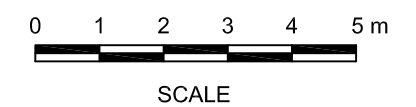
DRG.No:- TND-2501 SHEET:- 01 OF 07 SUB SH.- ----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

440.0																																																																																																										
420.0	FSL							SILTED BED		BED LEVEL																																																																																																
400.0																																																																																																										
SLOPE %	0.11						0.085		0.21																																																																																																	
VELOCITY (m/s)	1.33						2.64		1.48																																																																																																	
BED WIDTH (m)	0.75						0.7		0.65																																																																																																	
DISCHARGE CUMEC	0.587305						0.508894		0.508894																																																																																																	
REMARKS																																																																																																										
FALL STRUCTURE (REPAIRING)																																																																																																										
FALL STRUCTURE (REPAIRING)																																																																																																										
FALL STRUCTURE (REPAIRING)																																																																																																										
	DE-SILTING AND REPAIRING																																																																																																									
FSL	427.85	427.76	428.49	427.74	428.49	427.72	428.49	427.75	427.68	428.49	427.75	427.66	428.48	427.72	427.64	428.48	427.69	427.62	428.48	427.67	427.60	428.48	427.75	427.58	428.48	427.72	427.56	428.48	427.64	427.54	428.48	427.66	427.50	428.38	427.99	427.46	428.05	427.47	427.45	427.70	427.52	427.44	427.72	427.53	427.43	427.74	427.52	427.42	427.76	427.50	427.41	427.78	427.48	427.40	427.80	427.44	427.38	427.82	427.41	427.37	427.84	427.04	427.01	427.49	427.17	427.10	427.46	427.12	427.06	427.42	427.07	427.02	427.39	427.02	426.98	427.36	426.97	426.94	427.32	426.92	426.90	427.29	426.87	426.86	427.26	426.84	426.81	427.22	426.80	426.77	427.19	426.76	426.73	427.16	426.72	426.69	427.13	426.68	426.65	427.09	426.65	426.61	427.06	426.61	426.57	427.03
BED LEVEL	427.85	427.76	428.49	427.74	428.49	427.72	428.49	427.75	427.68	428.49	427.75	427.66	428.48	427.72	427.64	428.48	427.69	427.62	428.48	427.67	427.60	428.48	427.75	427.58	428.48	427.72	427.56	428.48	427.64	427.54	428.48	427.66	427.50	428.38	427.99	427.46	428.05	427.47	427.45	427.70	427.52	427.44	427.72	427.53	427.43	427.74	427.52	427.42	427.76	427.50	427.41	427.78	427.48	427.40	427.80	427.44	427.38	427.82	427.41	427.37	427.84	427.04	427.01	427.49	427.17	427.10	427.46	427.12	427.06	427.42	427.07	427.02	427.39	427.02	426.98	427.36	426.97	426.94	427.32	426.92	426.90	427.29	426.87	426.86	427.26	426.84	426.81	427.22	426.80	426.77	427.19	426.76	426.73	427.16	426.72	426.69	427.13	426.68	426.65	427.09	426.65	426.61	427.06	426.61	426.57	427.03
SILTED BED	427.85	427.76	428.49	427.74	428.49	427.72	428.49	427.75	427.68	428.49	427.75	427.66	428.48	427.72	427.64	428.48	427.69	427.62	428.48	427.67	427.60	428.48	427.75	427.58	428.48	427.72	427.56	428.48	427.64	427.54	428.48	427.66	427.50	428.38	427.99	427.46	428.05	427.47	427.45	427.70	427.52	427.44	427.72	427.53	427.43	427.74	427.52	427.42	427.76	427.50	427.41	427.78	427.48	427.40	427.80	427.44	427.38	427.82	427.41	427.37	427.84	427.04	427.01	427.49	427.17	427.10	427.46	427.12	427.06	427.42	427.07	427.02	427.39	427.02	426.98	427.36	426.97	426.94	427.32	426.92	426.90	427.29	426.87	426.86	427.26	426.84	426.81	427.22	426.80	426.77	427.19	426.76	426.73	427.16	426.72	426.69	427.13	426.68	426.65	427.09	426.65	426.61	427.06	426.61	426.57	427.03
RD	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440																																																																					



TENDER DRAWING

CLIENT:  
KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
CAMEOS  
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
CASCADE GROUP OF ENGINEERING & CONSULTANTS  
ETA IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
PLAN & PROFILE OF TANDA DAM  
BABRI BANDA

SCALE	DATE
Show	JANUARY 2021

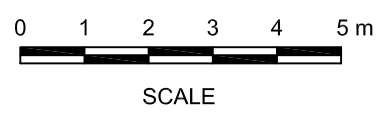
DRG.No:- TND-2502 SHEET:- 02 OF 07 SUB SH.:- ----

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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

440.0			
420.0			
400.0			
SLOPE %		0.21	0.42
VELOCITY (m/s)		1.48	1.54
BED WIDTH (m)		0.65	0.4
DISCHARGE CU/SEC		0.508894	0.368116
REMARKS	DE-SILTING AND REPAIRING		
F.S.L	426.61	426.57	427.03
BED LEVEL	426.57	426.53	426.99
SILTED BED	426.53	426.48	426.96
RD	1+440	1+460	1+480



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS**

REVIEWED & UPDATED FOR TENDER BY: **RHC REHMAN HABIB CONSULTANTS (PVT) LTD.**  
A Joint Venture of: **CASCADE GROUP OF ENGINEERING & CONSULTANTS**  
IN ASSOCIATION WITH: **ETA ENGINEERING & TECHNICAL ASSOCIATES**

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

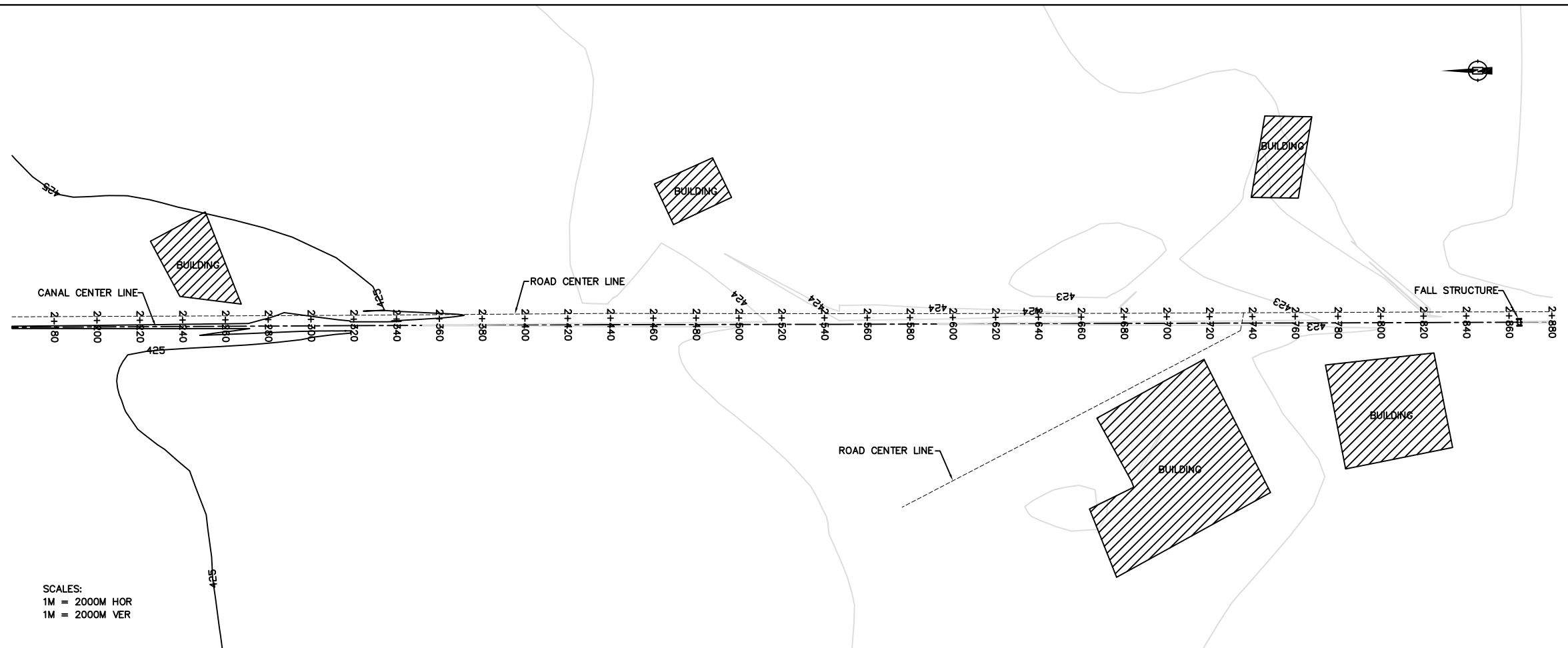
TITLE: **PLAN & PROFILE OF TANDA DAM BABRI BANDA**

DRG.No:- TND-2503 SHEET:- 03 OF 07

SCALE	DATE
Shown	JANUARY 2021
SUB SH.-	----



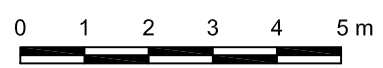
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SCALES:  
1M = 2000M HOR  
1M = 2000M VER

RD	F.S.L	BED LEVEL	SILTED BED	REMARKS
2+160	424.82	424.69	425.09	DE-SILTING AND REPAIRING
2+180	424.74	424.60	425.01	
2+200	424.66	424.52	424.93	
2+220	424.57	424.43	424.86	
2+240	424.49	424.35	424.78	
2+260	424.40	424.26	424.70	
2+280	424.32	424.18	424.62	
2+300	424.24	424.09	424.54	
2+320	424.15	424.01	424.46	
2+340	424.06	423.92	424.39	
2+360	423.96	423.84	424.31	
2+380	423.87	423.75	424.23	
2+400	423.77	423.67	424.15	
2+420	423.68	423.58	424.07	
2+440	423.58	423.50	423.99	
2+460	423.50	423.41	423.92	
2+480	423.42	423.33	423.84	
2+500	423.34	423.24	423.76	
2+520	423.26	423.16	423.68	
2+540	423.18	423.07	423.60	
2+560	423.11	422.99	423.52	
2+580	423.04	422.90	423.45	
2+600	422.98	422.82	423.37	
2+620	422.91	422.73	423.29	
2+640	422.84	422.65	423.21	
2+660	422.78	422.56	423.13	
2+680	422.71	422.48	423.05	
2+700	422.63	422.39	422.98	
2+720	422.55	422.31	422.90	
2+740	422.47	422.22	422.82	
2+760	422.39	422.19	422.76	
2+780	422.31	422.17	422.71	
2+800	422.23	422.14	422.65	
2+820	422.15	422.12	422.59	
2+840	422.13	422.09	422.53	
2+860	422.10	422.07	422.48	
2+880	421.88	421.84	422.18	


FSL    BED LEVEL    SILTED BED





SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

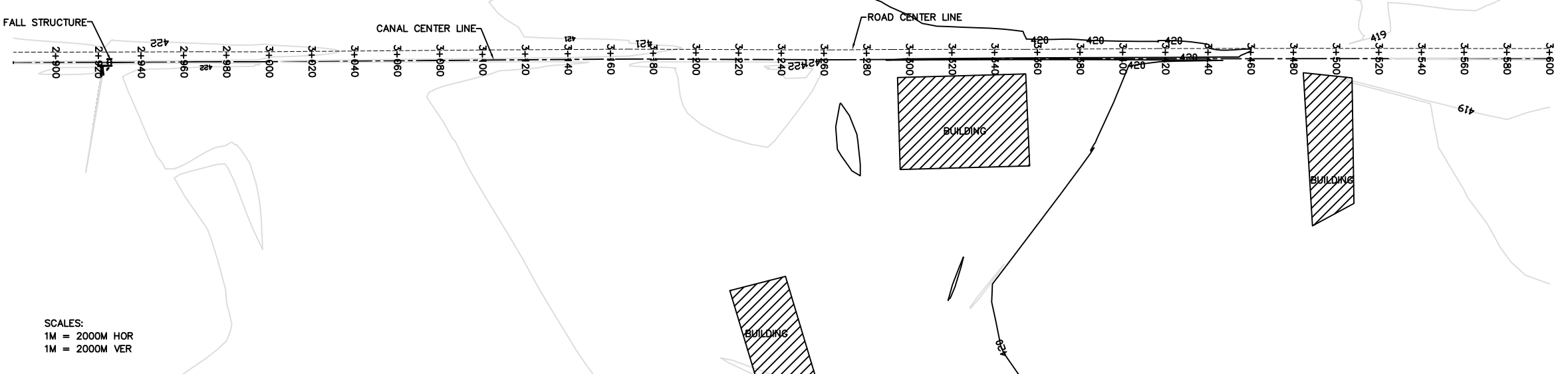
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 A Joint Venture of:  
 RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  
 ETA IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
 PLAN & PROFILE OF TANDA DAM  
 BABRI BANDA

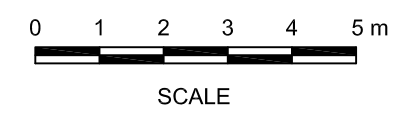
DRG.No:-	TND-2504	SHEET:-	04 OF 07	SCALE	DATE
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				SUB SH.-	----

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SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER

440.0																																						
420.0	<div style="display: flex; justify-content: space-around; width: 100%;"> <span>FSL</span> <span>SILTED BED</span> <span>BED LEVEL</span> </div>																																					
400.0																																						
SLOPE %	0.29	FALL STRUCTURE(REPAIRING)	0.73		0.29				0.36		0.28			0.28																								
VELOCITY (m/s)	1.5		1.56		2.89				3.77		5.28			0.9																								
BED WIDTH (m)	0.4		0.4		0.4				0.3		0.27			0.25																								
DISCHARGE CUMEC	0.426221							0.426221																														
REMARKS	DE-SILTING & REPAIRING																																					
RD	2+880	2+900	2+920	2+940	2+960	2+980	3+000	3+020	3+040	3+060	3+080	3+100	3+120	3+140	3+160	3+180	3+200	3+220	3+240	3+260	3+280	3+300	3+320	3+340	3+360	3+380	3+400	3+420	3+440	3+460	3+480	3+500	3+520	3+540	3+560	3+580	3+600	
WATER LEVEL	421.88	421.84	422.18	421.78	421.85	421.70	421.55	421.36	421.15	420.88	420.61	420.34	420.08	419.81	419.54	419.27	419.01	418.74	418.47	418.21	417.95	417.68	417.42	417.16	416.89	416.63	416.36	416.10	415.84	415.57	415.31	415.04	414.78	414.51	414.25	413.98	413.72	413.45
BED LEVEL	421.88	421.78	421.99	421.57	421.43	421.28	421.15	420.79	420.74	420.56	420.50	420.54	420.47	420.40	420.34	420.27	420.25	420.23	420.15	420.09	420.04	419.99	419.93	419.88	419.82	419.76	419.70	419.64	419.58	419.53	419.47	419.41	419.36	419.30	419.24	419.18	419.12	419.06
SILTED BED	421.88	421.79	421.73	421.61	421.48	421.35	421.11	420.83	420.74	420.56	420.50	420.54	420.47	420.40	420.34	420.27	420.25	420.23	420.15	420.09	420.04	419.99	419.93	419.88	419.82	419.76	419.70	419.64	419.58	419.53	419.47	419.41	419.36	419.30	419.24	419.18	419.12	419.06



**TENDER DRAWING**

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

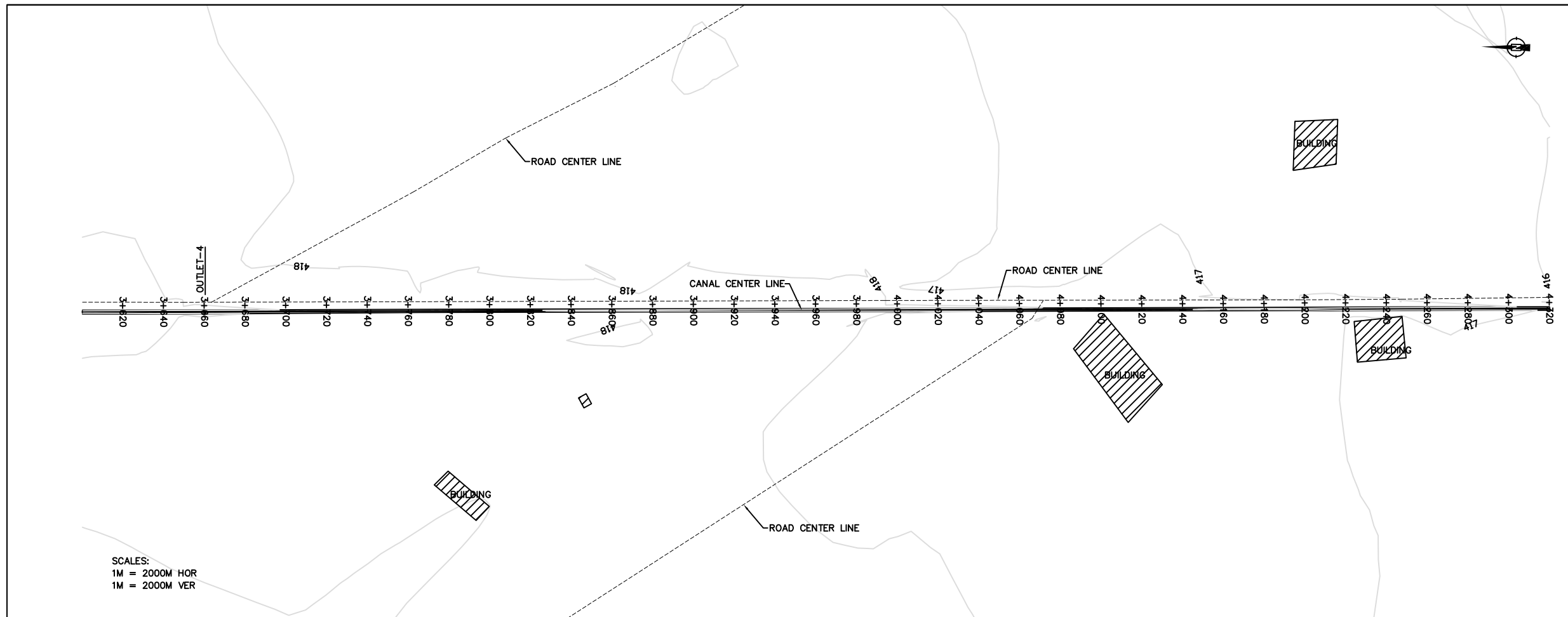
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**CASCADE GROUP OF**  
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**ETA**  
 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

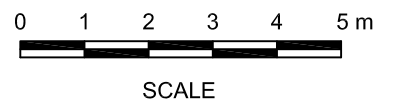
TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**BABRI BANDA**

DRG.No.-	TND-2505	SHEET:-	05 OF 07	SCALE	DATE
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				SUB SH.-	----

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		440.0	
		420.0	
		400.0	
		FSL                      SILTED BED                      BED LEVEL	
SLOPE %		0.28	0.40
VELOCITY (m/s)		0.9	0.9
BED WIDTH (m)		0.27	0.25
DISCHARGE CUMEC	0.426221	0.274171	
REMARKS	DE-SILTING & REPAIRING		
F.S.L	418.45	419.37	419.29
BED LEVEL	418.81	418.76	418.70
SILTED BED	418.81	418.76	418.70
RD	3+600	3+620	3+640



TENDER DRAWING

CLIENT:  
**KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 A Joint Venture of:  
**RHC**  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
**ETA**  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM**  
**BABRI BANDA**

SCALE	DATE
Shown	JANUARY 2021
DRG.No:- TND-2506	SHEET:- 06 OF 07
SUB SH.-	----

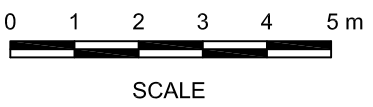
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EOP = 4+441.87  
 MN = 3708507.88  
 MZ = 738939.96

SCALES:  
 1M = 2000M HOR  
 1M = 2000M VER



440.0										
420.0		BED LEVEL	FSL	SILTED BED						
400.0										
SLOPE %				0.40						
VELOCITY (m/s)				0.9						
BED WIDTH (m)				0.25						
DISCHARGE CUMEC				0.274171						
REMARKS	DE-SILTING & REPAIRING									
FSL	4+320	4+340	4+360	4+380	4+400	4+420	4+440			
	416.68	416.60	416.53	416.45	416.37	416.30	416.22			
BED LEVEL	416.28	416.18	416.10	416.02	415.94	415.86	415.78			
SILTED BED	416.34	416.26	416.17	416.09	416.00	415.92	415.83			
RD										



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

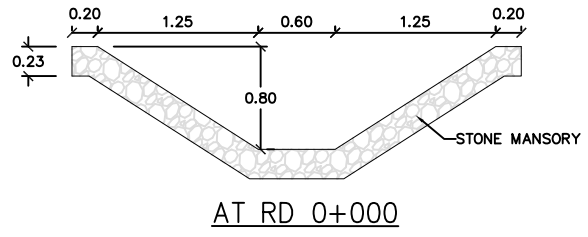
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**RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF  
 ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH:  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

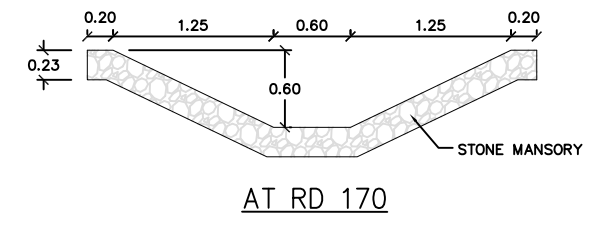
TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 BABRI BANDA**

DRG.No:- TND-2507	SHEET:- 07 OF 07	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.:-	----

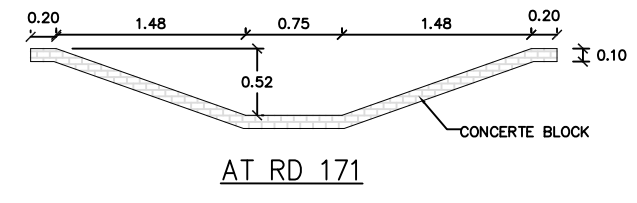
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AT RD 0+000

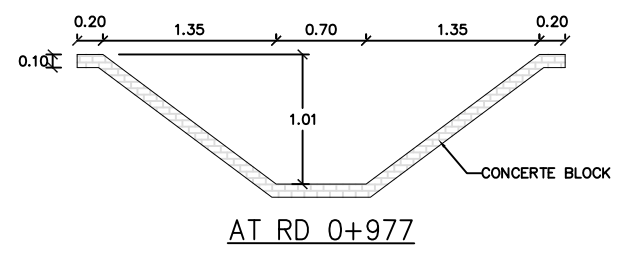


AT RD 170

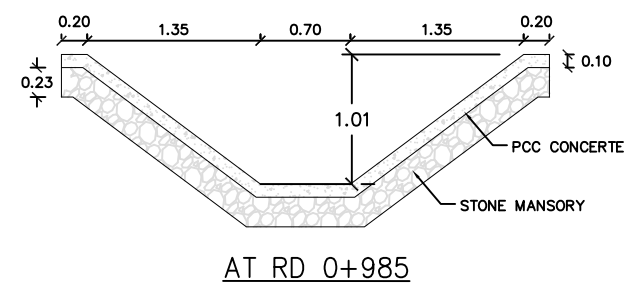


AT RD 171

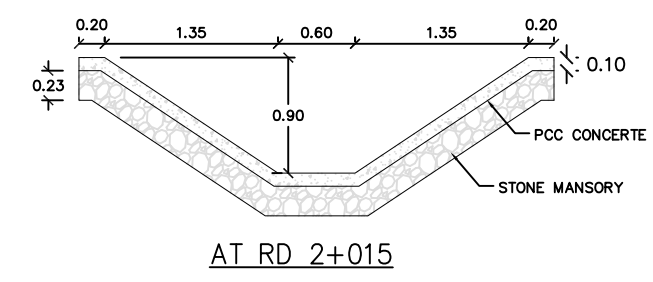
RD 0+000 TO 0+170 PROPOSED DAMAGED STONE WORK TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (70m)



AT RD 0+977



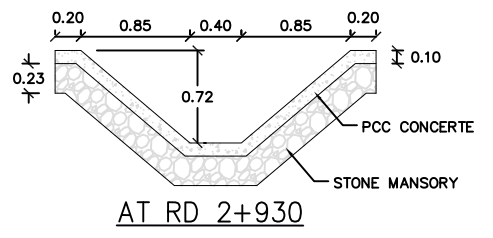
AT RD 0+985



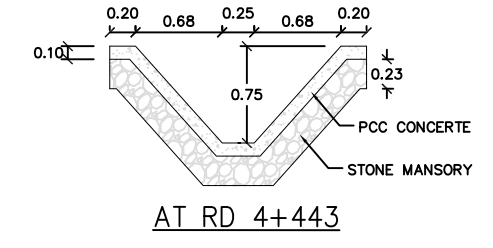
AT RD 2+015

RD 0+171 TO 0+977 PROPOSED DAMAGED P.C.C BLOCK TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (100m)

RD 0+985 TO 2+015 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (400m)

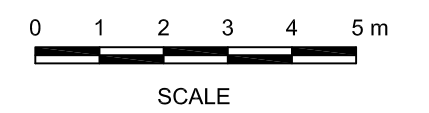


AT RD 2+930



AT RD 4+443

RD 2+016 TO 4+443 PROPOSED DAMAGED P.C.C PANELS TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (638m)



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

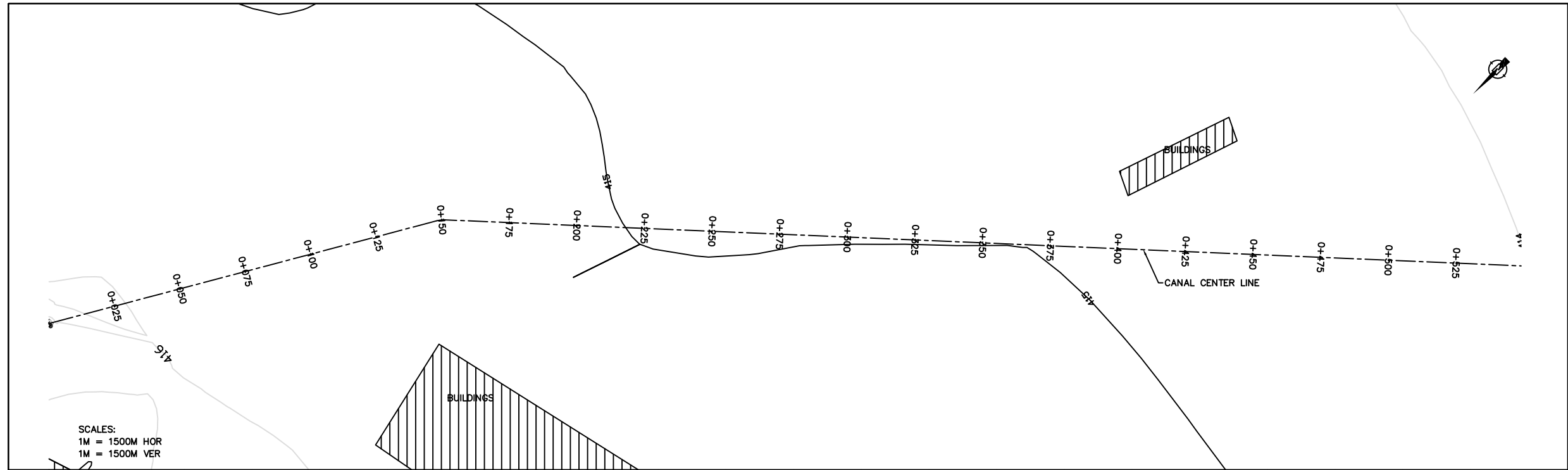
FS CONSULTANTS: CAMEOS  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ETA ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

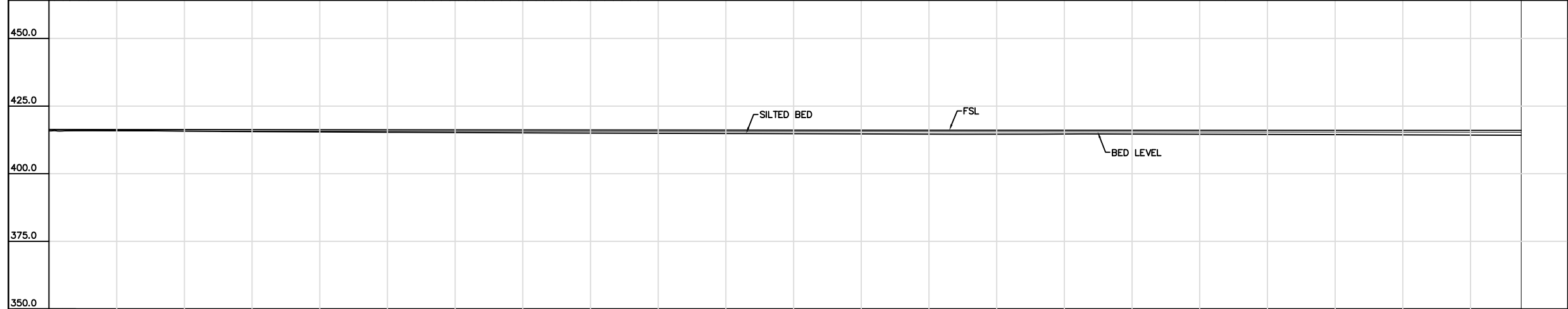
TITLE: CROSS SECTION OF BABRI BANDA EXISTING CANAL SECTION

DRG.No:- TND-2508	SHEET:- 1 OF 01	SCALE	DATE
		Show	JANUARY 2021
		SUB SH.-	----

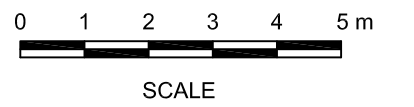
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SCALES:  
1M = 1500M HOR  
1M = 1500M VER



SLOPE %	0.09																																																													
VELOCITY (m/s)	0.78																																																													
BED WIDTH (m)	0.208535																																																													
DISCHARGE CUMEC	0.48																																																													
FSL	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525																																								
BED LEVEL	415.83	415.76	415.74	416.31	416.26	415.70	416.24	415.65	416.22	415.25	415.63	416.20	415.18	415.61	416.16	415.06	415.58	416.14	414.98	415.56	416.13	414.93	415.54	416.11	414.94	415.49	416.09	414.95	415.47	416.08	414.96	415.45	416.07	414.94	415.43	416.05	414.81	415.40	416.04	414.68	415.38	416.03	414.53	415.36	416.02	414.45	415.34	416.01	414.36	415.31	416.00	414.16	415.29	416.00								
SILTED BED	415.83	416.00	415.79	415.72	416.28	415.60	415.70	416.26	415.38	415.67	416.24	415.37	415.65	416.22	415.25	415.63	416.20	415.16	415.61	416.18	415.06	415.58	416.16	414.98	415.56	416.14	414.93	415.54	416.13	414.93	415.52	416.11	414.94	415.49	416.09	414.95	415.47	416.08	414.96	415.45	416.07	414.94	415.43	416.05	414.81	415.40	416.04	414.68	415.38	416.03	414.53	415.36	416.02	414.45	415.34	416.01	414.36	415.31	416.00	414.16	415.29	416.00
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525																																								



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

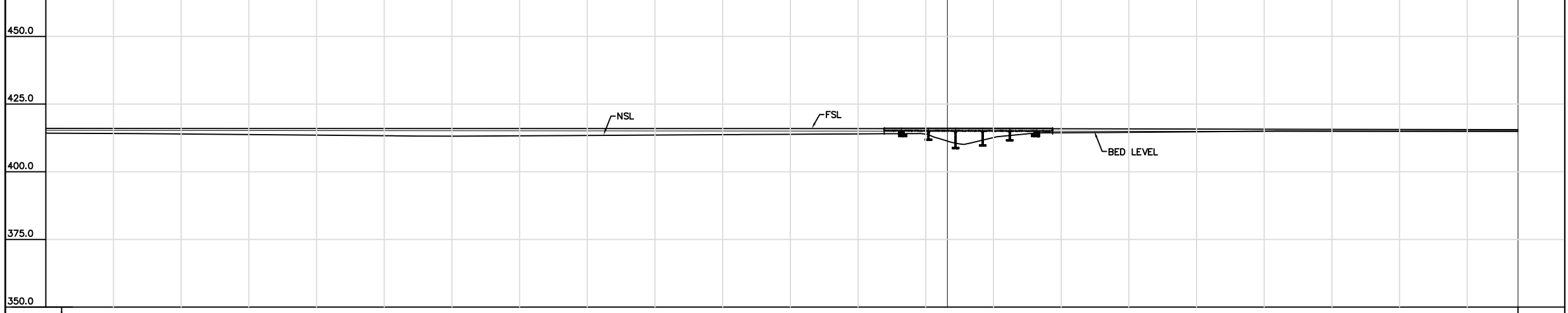
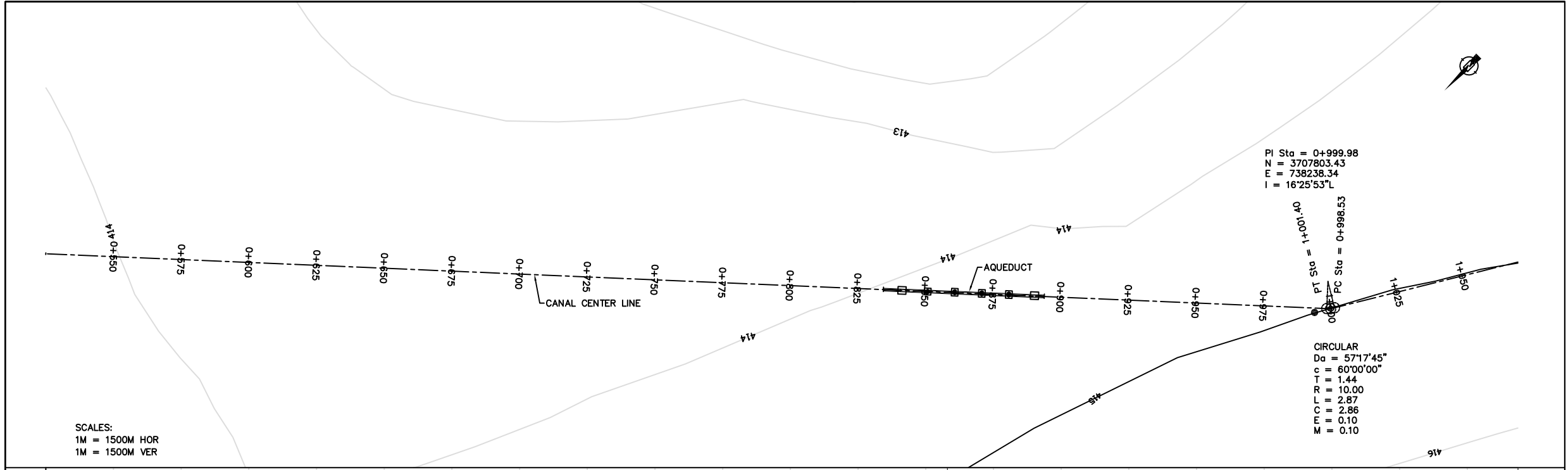
REVISED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. ETA IN ASSOCIATION WITH: CASCADE GROUP OF ENGINEERING & CONSULTANTS ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

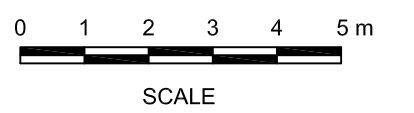
TITLE: **PLAN AND PROFILE OF BABRI BANDA EXTENSION CANAL**

DRG.No:-	TND-2601	SHEET:-	01 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----


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SLOPE %	0.09																						
VELOCITY (m/s)	0.78																						
BED WIDTH (m)	0.25																						
DISCHARGE CUMEC	0.208535								0.104267														
FSL	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	
BED LEVEL	415.29	415.27	415.25	415.22	415.20	415.18	415.16	415.13	415.11	415.09	415.07	415.04	415.02	415.00	414.98	414.95	414.93	414.91	414.89	414.86	414.84	414.82	414.58
NSL	414.16	413.94	413.72	413.50	413.26	413.22	413.34	413.47	413.59	413.71	413.83	413.96	414.08	414.21	414.33	414.41	414.57	414.71	414.80	414.90	414.90	414.84	414.58
RD	0+525	0+550	0+575	0+600	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

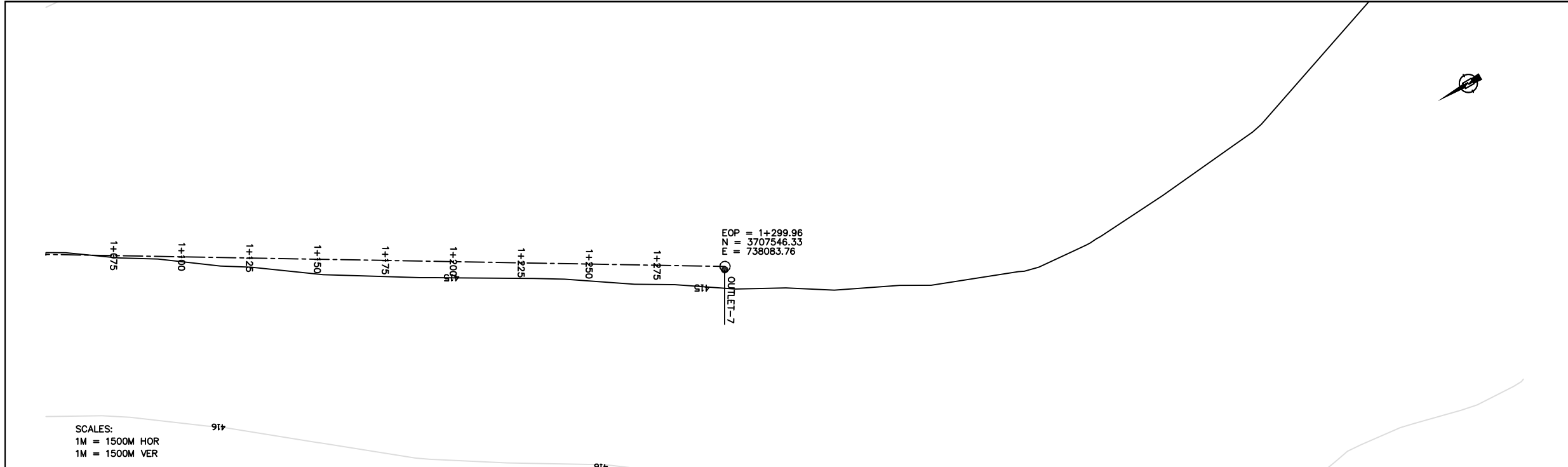
REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
 REHMAN HABIB CONSULTANTS (PVT) LTD.  
 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

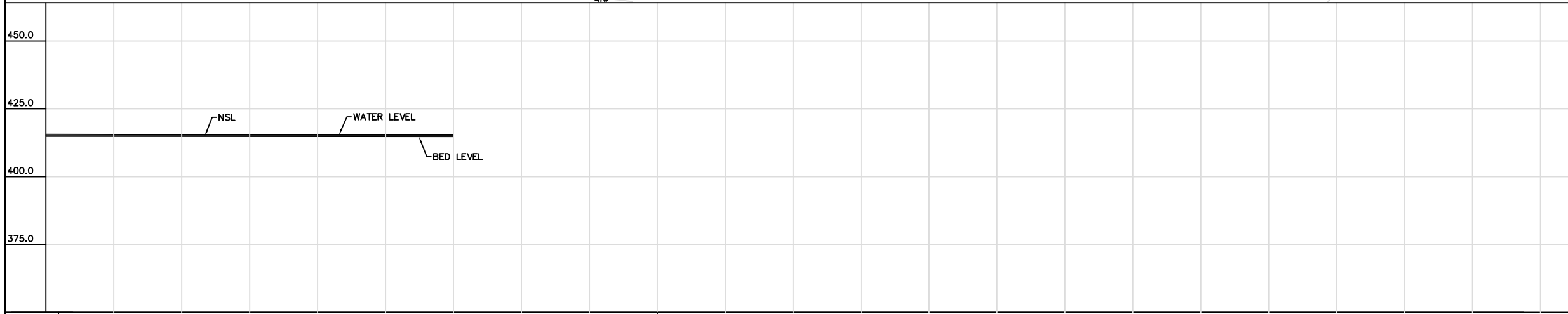
TITLE:  
**PLAN AND PROFILE OF  
 BABRI BANDA  
 EXTENSION CANAL**

DRG.No:-	TND-2602	SHEET:-	02 OF 03	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021

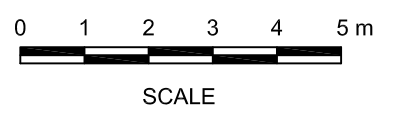
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SCALES:  
 1M = 1500M HOR  
 1M = 1500M VER







SLOPE %	0.09																					
VELOCITY (m/s)	0.78																					
BED WIDTH (m)	0.25																					
DISCHARGE CUMEC	0.104267																					
FSL	414.82	415.53	415.48	415.45	415.42	415.39	415.36	415.29	415.22	415.14												
BED LEVEL	414.82	414.80	414.77	414.75	414.73	414.71	414.94	414.96	414.97	414.99												
NSL	414.91	414.91	414.92	414.92	414.93	414.93	414.94	414.96	414.97	414.99												
RD	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250	1+275	1+300	1+325	1+350	1+375	1+400	1+425	1+450	1+475	1+500	1+525	1+550	1+575



**TENDER DRAWING**

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
 A Joint Venture of:  
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

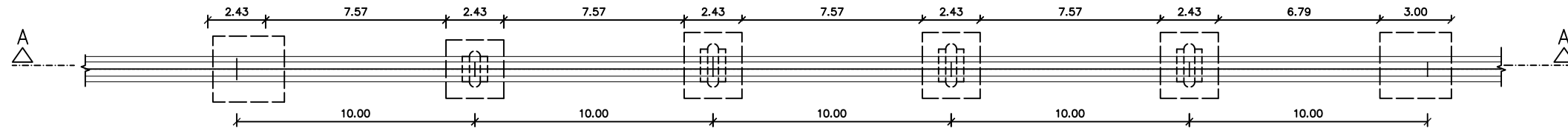
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN AND PROFILE OF  
 BABRI BANDA  
 EXTENSION CANAL**

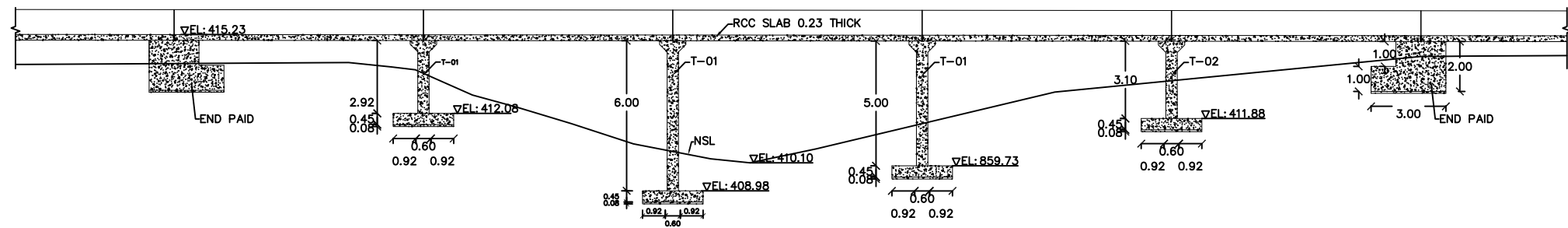
DRG.No:-	TND-2603	SHEET:-	03 OF 03	SCALE	DATE
		SUB SH.-	----	Shown	JANUARY 2021



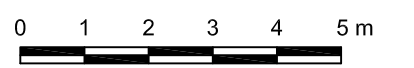
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AQUEDUCT PLAN AT RD 864




SECTION A-A






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

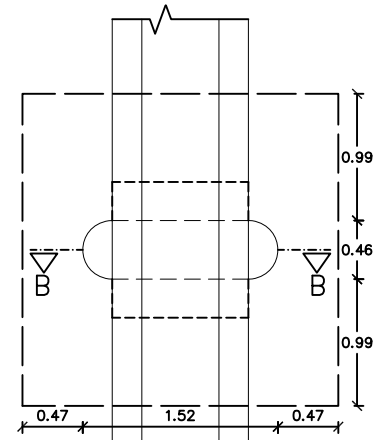
REVISED & UPDATED FOR TENDER BY:  
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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

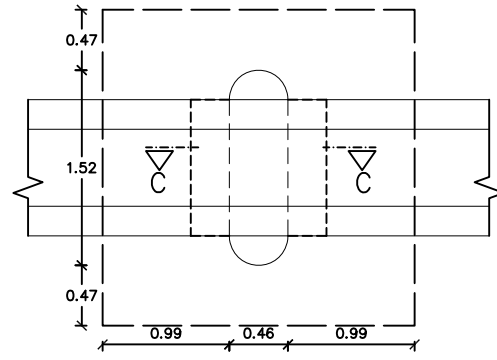
TITLE:  
**PLAN & SECTION A-A OF  
 AQUEDUCT BABRI BANDA  
 EXECUTION**

DRG.No:-	TND-2604	SHEET:-	01 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

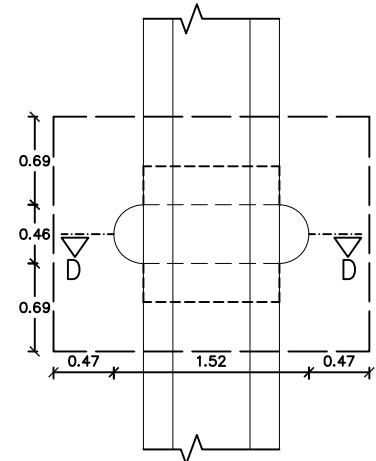
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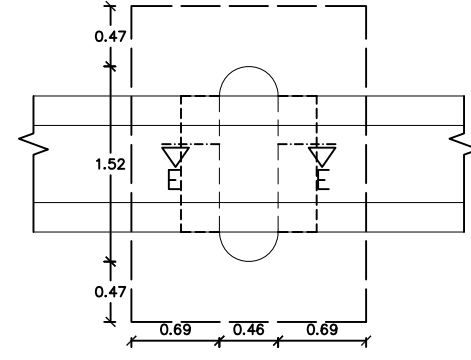
PLAN OF TOWER-01



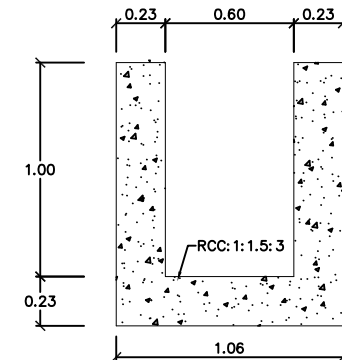
PLAN OF TOWER-01



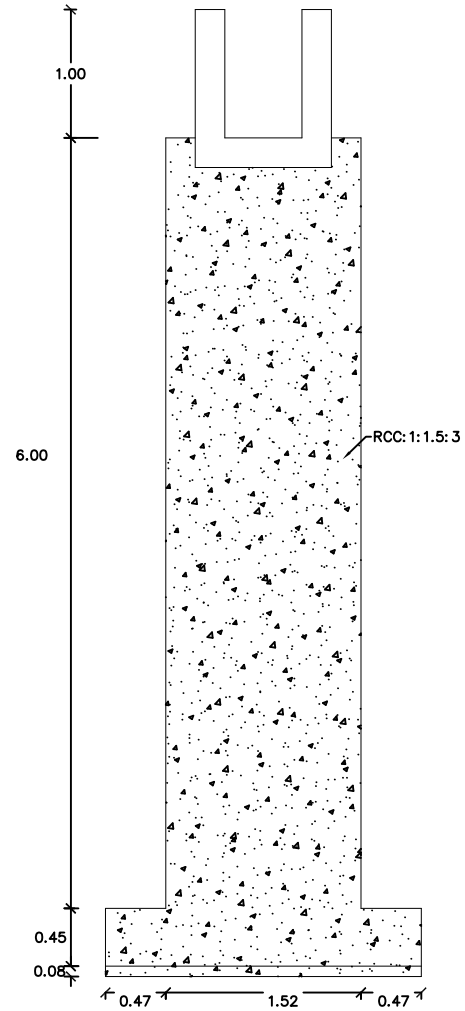
PLAN OF TOWER-02  
SCALE: 1:50



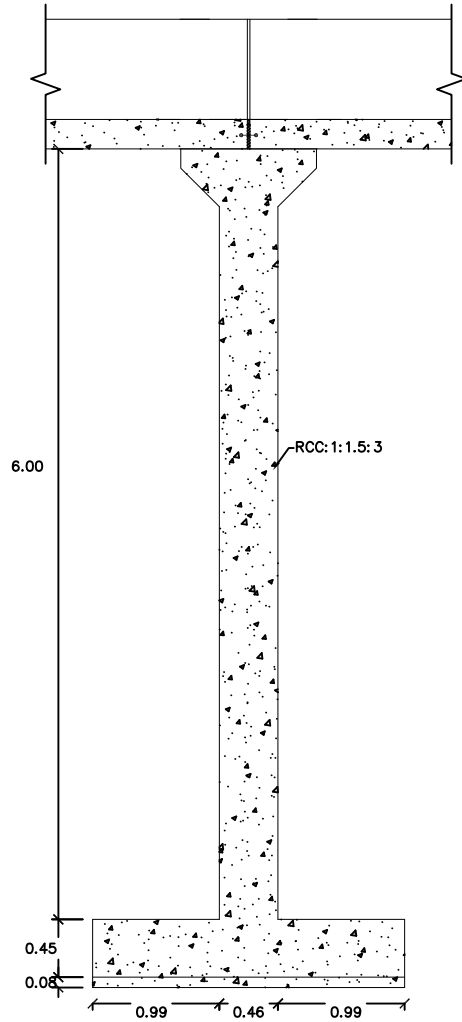
PLAN OF TOWER-02  
SCALE: 1:50



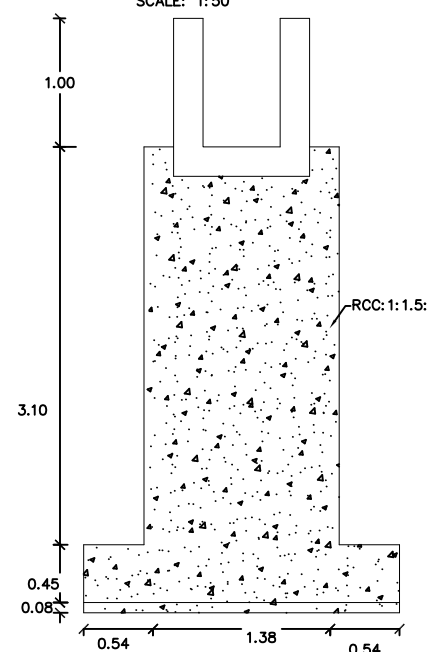
DETAIL "A"  
SCALE: 1:30



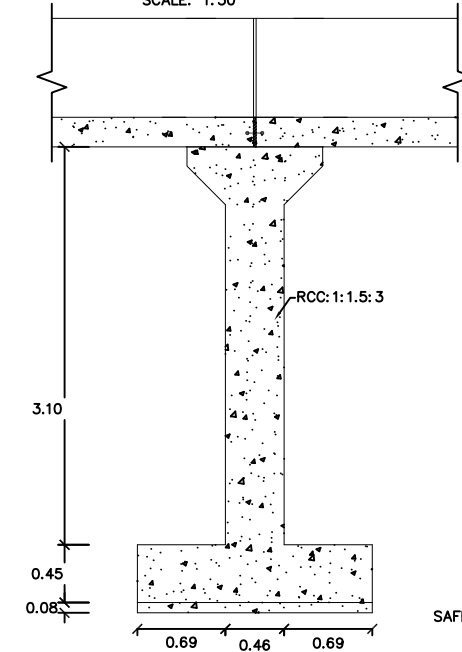
SECTION B-B  
SCALE: 1:50



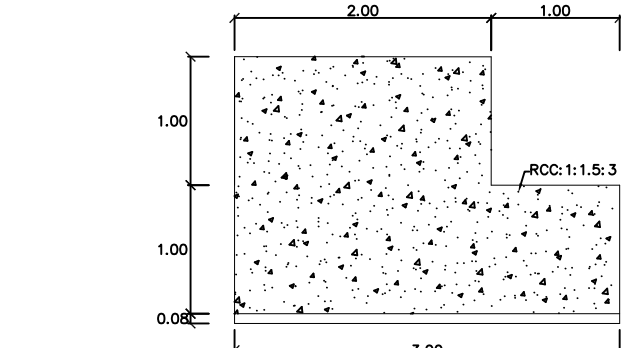
SECTION C-C  
SCALE: 1:50



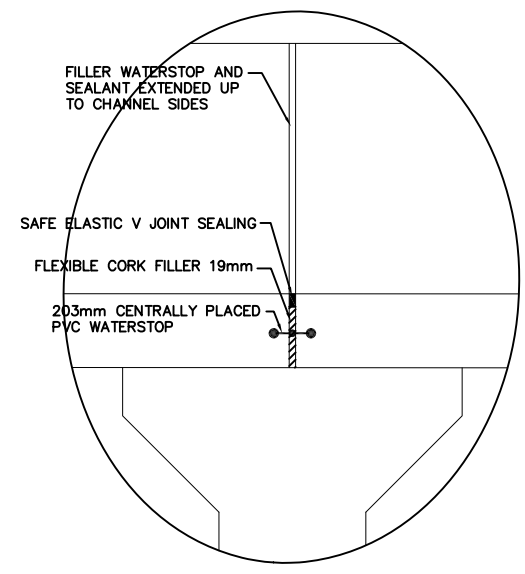
SECTION D-D  
SCALE: 1:50



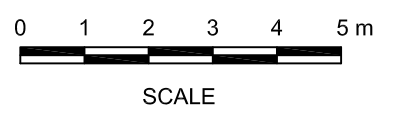
SECTION E-E  
SCALE: 1:50



X-CROSS OF END PAID  
SCALE: 1:50



DETAIL "A" OF EXPANSION JOINT  
SCALE: 1:20



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

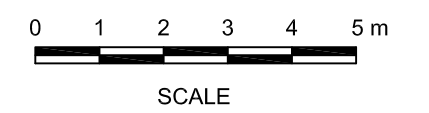
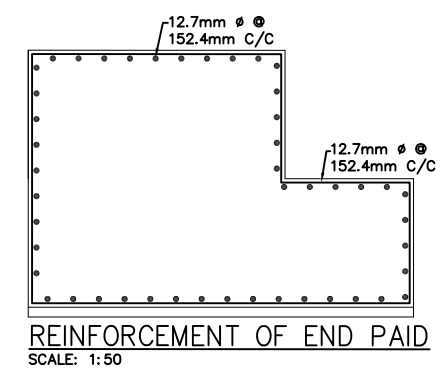
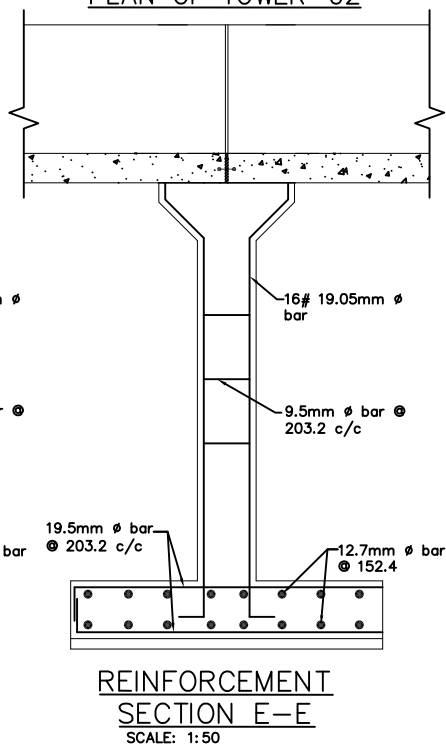
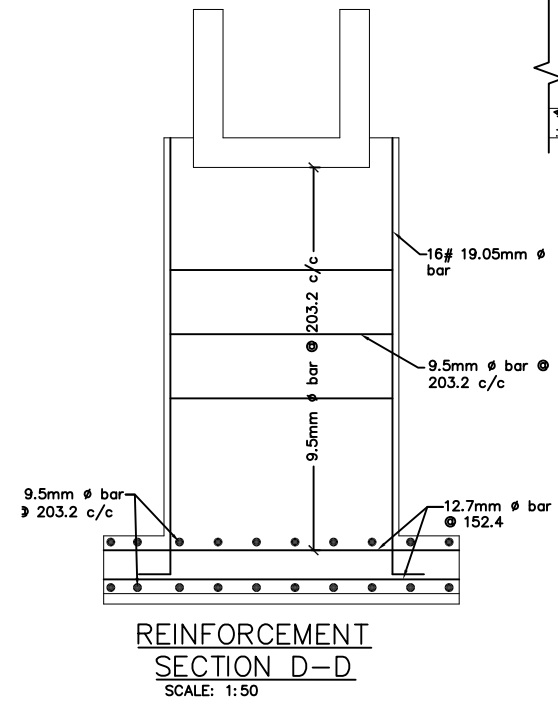
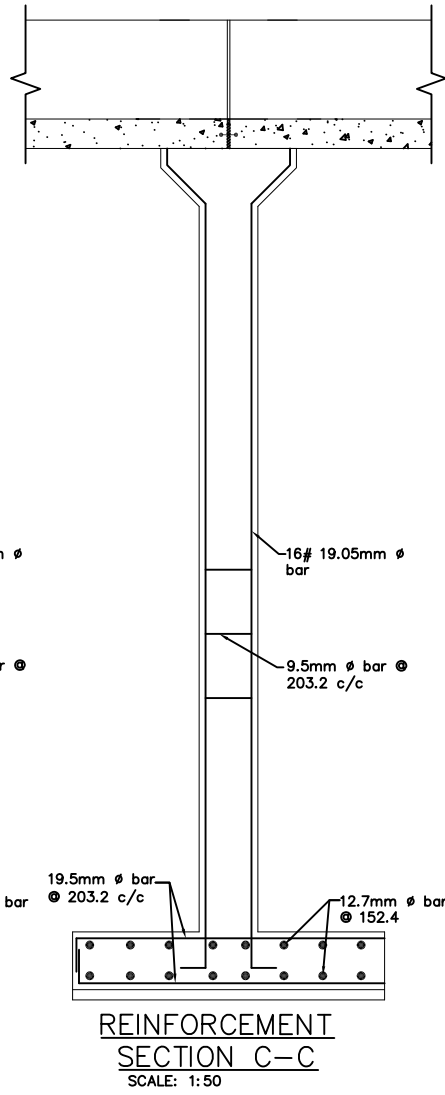
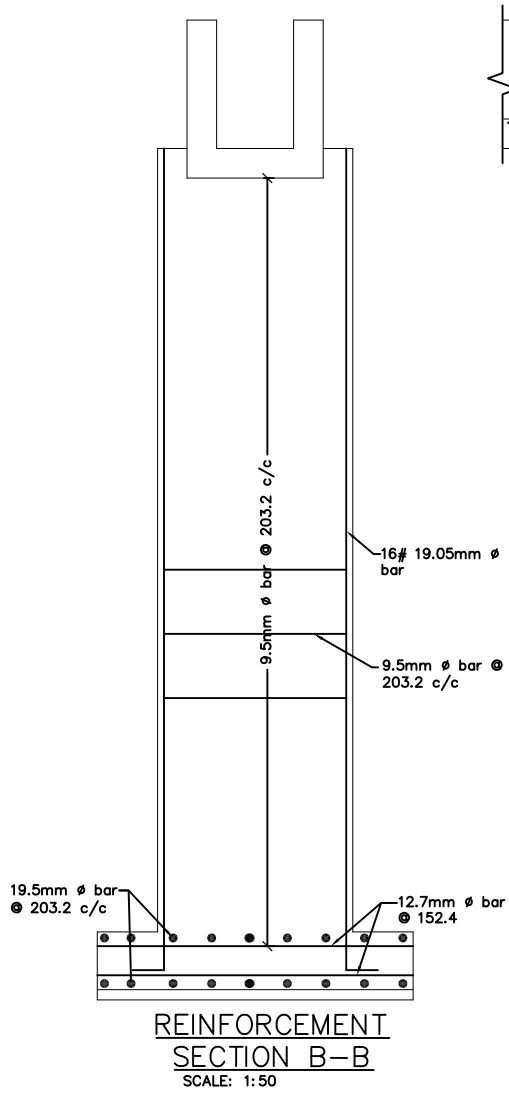
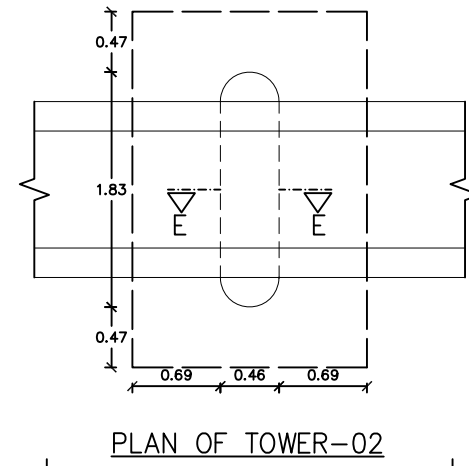
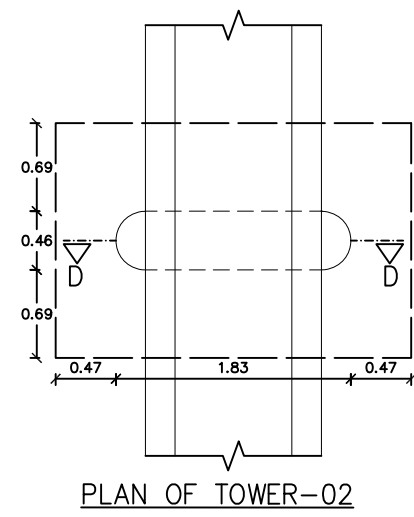
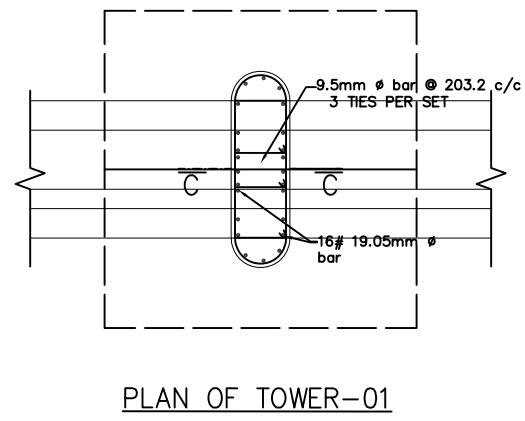
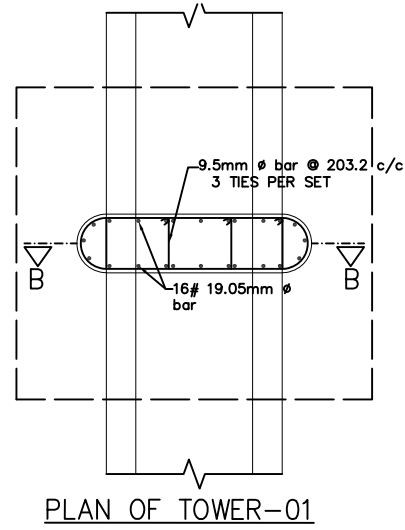
REVIEWED & UPDATED FOR TENDER BY: A Joint Venture of: RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS ETA IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: DETAILS OF AQUEDUCT BABRI BANDA EXECTION

DRG.No:-	TND-2605	SHEET:-	2 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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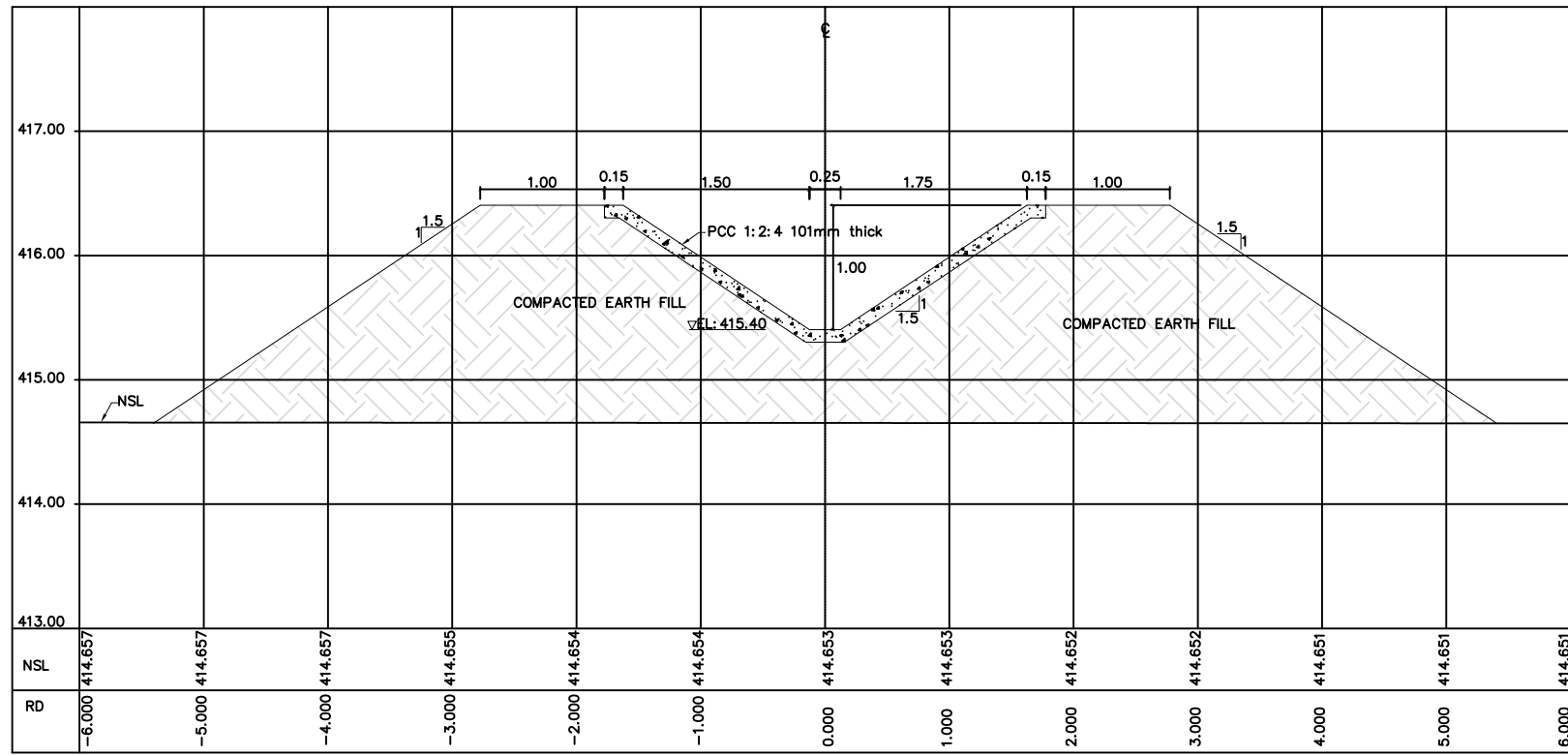
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **REINFORCEMENT DETAILS OF AQUEDUCT BABRI BANDA EXECTION**

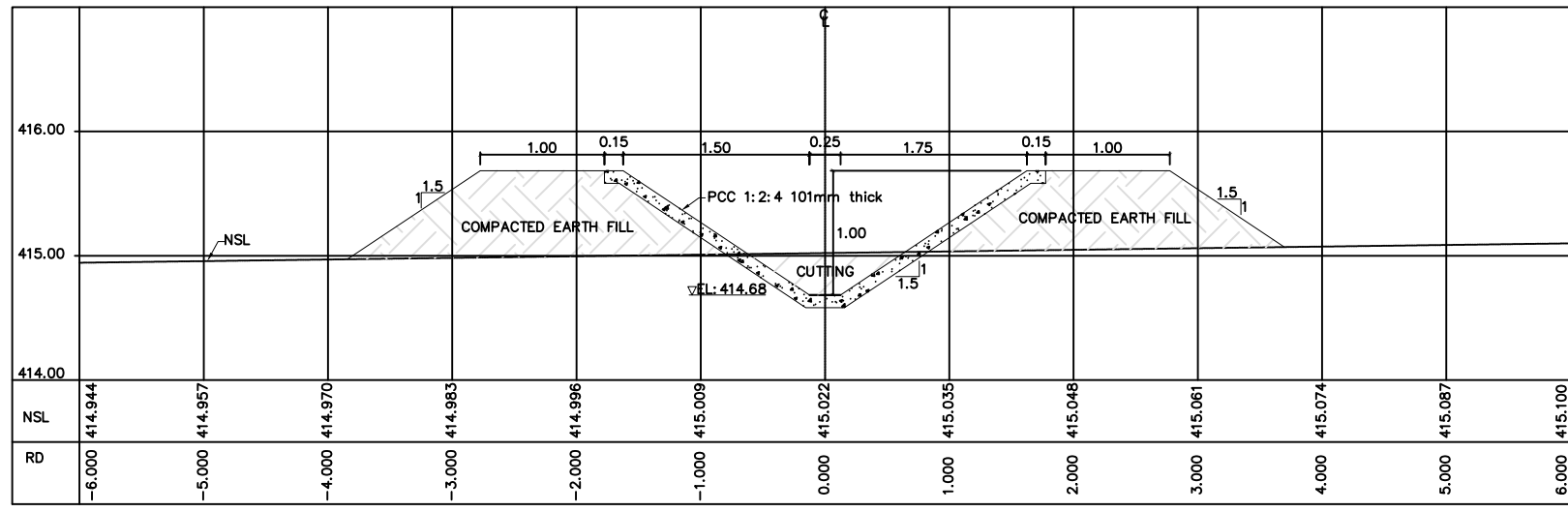
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2606 SHEET:- 3 OF 03 SUB SH.- ----

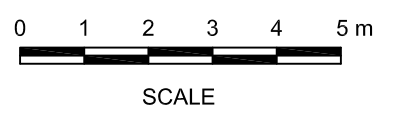
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AT RD 0+400







AT RD 1+200



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

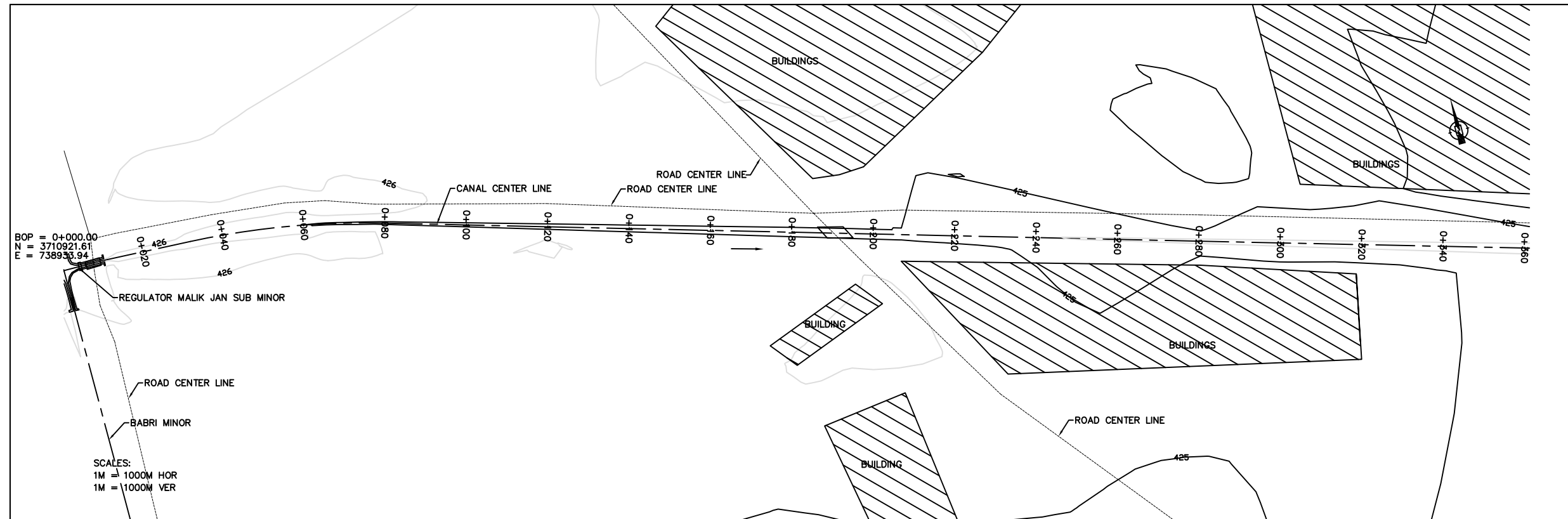
REVISED & UPDATED FOR TENDER BY:  
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS  
 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN OF MAIN CANAL  
 BABRI BANDA EXTENSION**

DRG.No:- TND-2607	SHEET:- 1 OF 01	SUB SH.-	SCALE	DATE
			Shown	JANUARY 2021

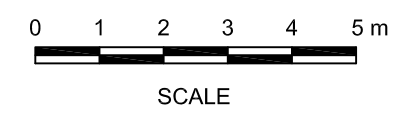
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BOP = 0+000.00  
N = 3710921.61  
E = 738933.94

SCALES:  
1M = 1000M HOR  
1M = 1000M VER

RD	0+000	0+020	0+040	0+060	0+080	0+100	0+120	0+140	0+160	0+180	0+200	0+220	0+240	0+260	0+280	0+300	0+320	0+340	0+360
FSL	425.32	425.33	425.20	425.30	424.92	424.81	424.68	424.56	424.50	424.41	424.32	424.20	424.05	423.90	423.77	423.66	423.56	423.46	423.36
BED LEVEL	425.25	425.33	425.20	425.07	424.94	424.81	424.68	424.56	424.43	424.30	424.17	424.04	423.93	423.82	423.72	423.61	423.50	423.40	423.29
SILTED BED	425.32	425.33	425.20	425.30	424.92	424.81	424.68	424.56	424.50	424.41	424.32	424.20	424.05	423.90	423.77	423.66	423.56	423.46	423.36
SLOPE %				0.64												0.53			
VELOCITY m/s				1.29												0.79			
BED WIDTH				0.45												0.45			
DISCHARGE CUMEC				0.378774												0.378774			
REMARKS	DE-SILTING & REPAIRING										DE-SILTING & REPAIRING								



TENDER DRAWING

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA**

FS CONSULTANTS:  
 **CAMEOS**

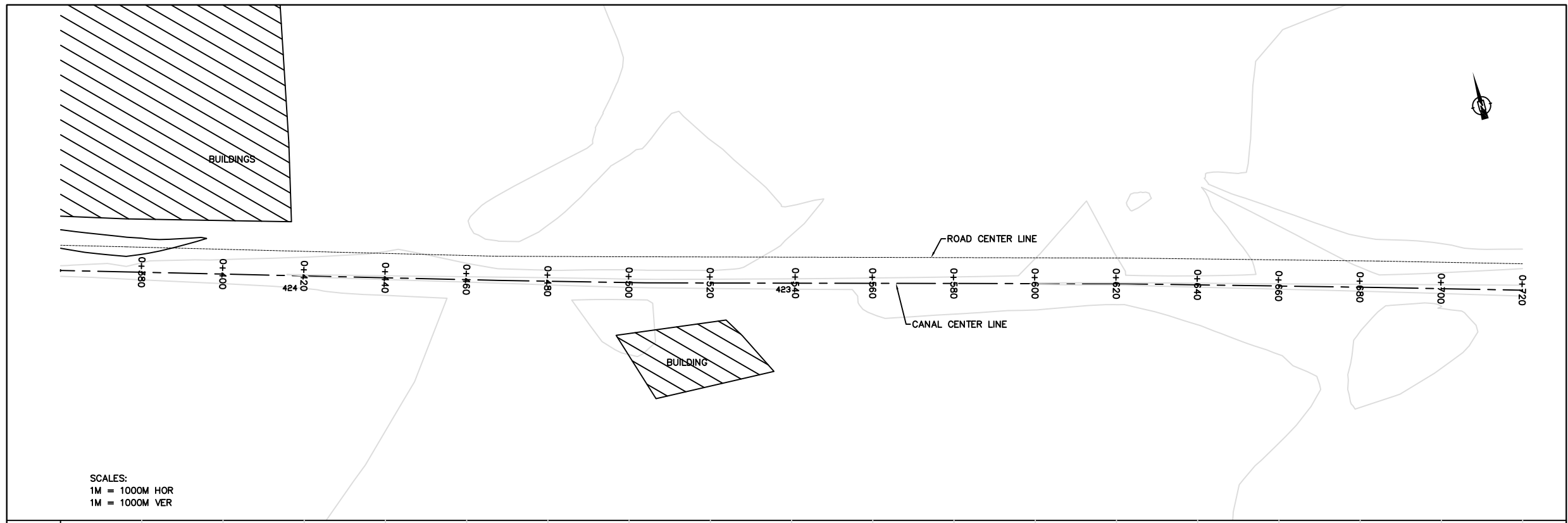
REVISED & UPDATED FOR TENDER BY:  
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 **RHC REHMAN HABIB CONSULTANTS (PVT.) LTD.**  
 **CASCADE GROUP OF  
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 **IN ASSOCIATION WITH:  
ENGINEERING & TECHNICAL ASSOCIATES**

PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PLAN & PROFILE OF  
MALIK JAN**

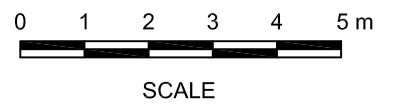
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2701      SHEET:- 1 OF 07      SUB SH.- ----



SCALES:  
1M = 1000M HOR  
1M = 1000M VER

440.0																			
420.0																			
400.0																			
SLOPE %	0.53																		
VELOCITY m/s	0.79																		
BED WIDTH	0.45																		
DISCHARGE CUMEC	0.378774																		
REMARKS	DE-SILTING & REPAIRING																		
FSL	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720
BED LEVEL	423.55	423.45	423.34	423.24	423.14	423.04	422.93	422.83	422.73	422.63	422.52	422.42	422.32	422.22	422.11	422.01	421.91	421.81	421.70
SILTED BED	423.36	423.25	423.13	423.02	422.91	422.80	422.70	422.59	422.49	422.39	422.29	422.19	422.09	421.99	421.88	421.78	421.68	421.58	421.48
RD	0+360	0+380	0+400	0+420	0+440	0+460	0+480	0+500	0+520	0+540	0+560	0+580	0+600	0+620	0+640	0+660	0+680	0+700	0+720



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

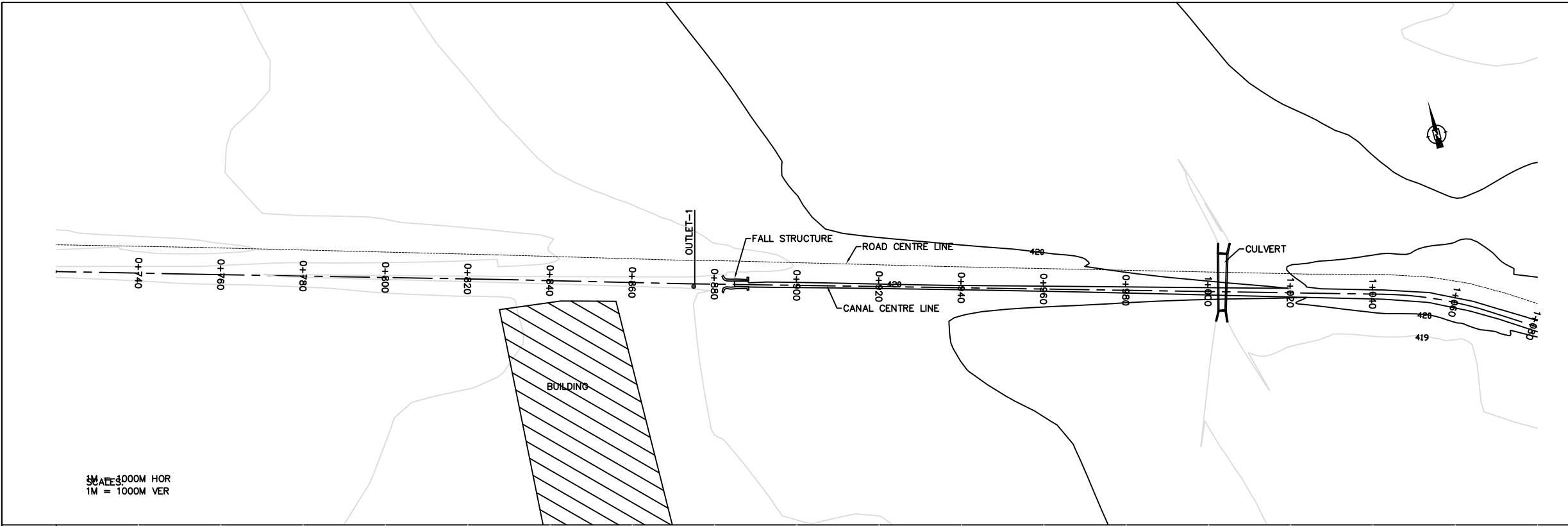
FS CONSULTANTS:  
 CAMEOS

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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

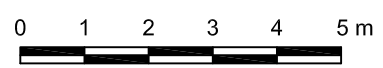
TITLE:  
**PLAN & PROFILE OF MALIK JAN**

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SCALE 1:10000 HOR  
1M = 1000M VER

440.0																				
420.0																				
400.0																				
SLOPE %	0.49					0.69					0.31					0.26				
VELOCITY m/s	1.02					1.02					1.29					1.29				
BED WIDTH	0.45					0.45					0.45					0.45				
DISCHARGE CUMEC	0.378774					0.378774					0.296558					0.296558				
REMARKS	DE-SILTING & REPAIRING																			
FSL	421.70	421.56	421.41	421.27	421.12	420.98	420.83	420.69	420.55	420.41	420.27	420.13	419.99	419.85	419.71	419.57	419.43	419.29	419.15	419.01
BED LEVEL	421.38	421.24	421.10	420.96	420.83	420.69	420.55	420.41	420.27	420.13	419.99	419.85	419.71	419.57	419.43	419.29	419.15	419.01	418.87	418.73
SILTED BED	421.38	421.21	421.06	420.96	420.85	420.75	420.65	420.52	420.40	420.27	420.13	419.99	419.87	419.68	419.54	419.42	419.36	419.30	419.25	419.20
RD	0+720	0+740	0+760	0+780	0+800	0+820	0+840	0+860	0+880	0+900	0+920	0+940	0+960	0+980	1+000	1+020	1+040	1+060	1+080	1+100



SCALE

TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

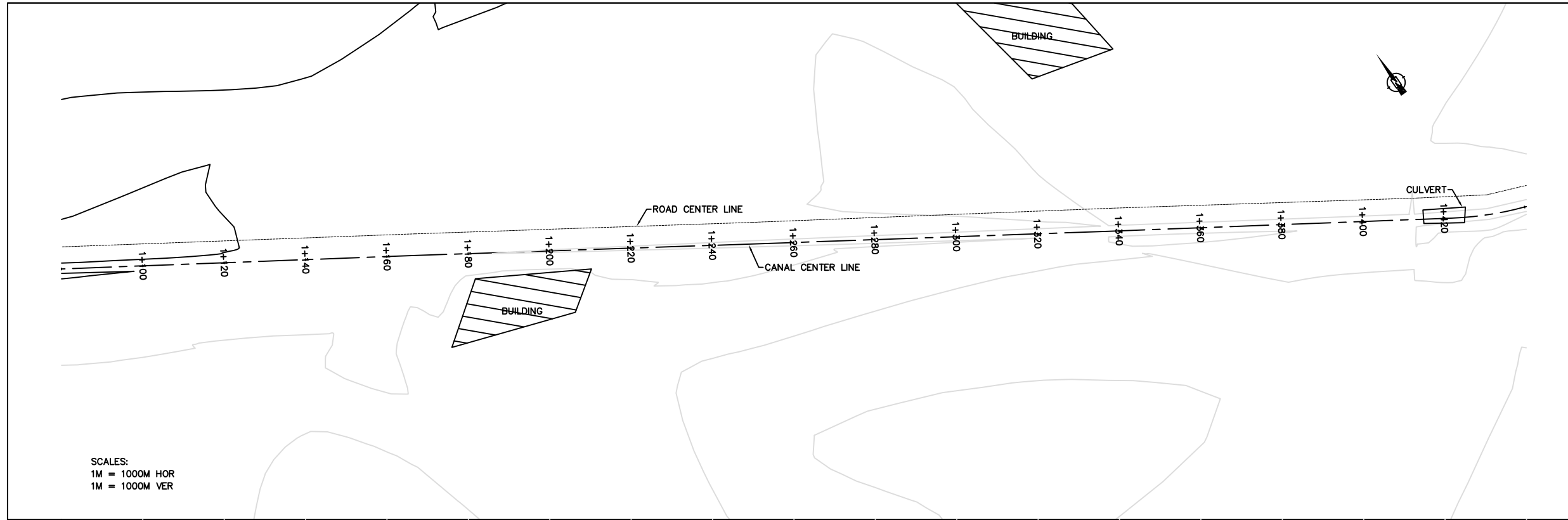
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF MALIK JAN

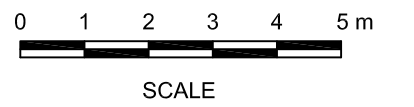
DRG.No:- TND-2703	SHEET:- 3 OF 07	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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SCALES:  
1M = 1000M HOR  
1M = 1000M VER

420.0																					
400.0																					
380.0																					
SLOPE %	0.26																				
VELOCITY m/s	0.57																				
BED WIDTH	0.45																				
DISCHARGE CUMEC	0.296558																				
REMARKS	DE-SILTING & REPAIRING																				
FSL	419.55	419.50	419.50	419.50	419.46	419.42	419.37	419.33	419.29	419.24	419.20	419.16	419.12	419.07	419.03	418.99	418.94	418.90	418.86	418.81	418.77
BED LEVEL	419.35	419.30	419.25	419.20	419.15	419.10	419.05	419.00	418.95	418.90	418.85	418.80	418.75	418.70	418.65	418.60	418.55	418.50	418.45	418.40	418.35
SILTED BED	419.35	419.30	419.26	419.20	419.15	419.10	419.05	419.00	418.95	418.90	418.86	418.84	418.82	418.80	418.78	418.76	418.74	418.72	418.70	418.68	418.66
RD	1+080	1+100	1+120	1+140	1+160	1+180	1+200	1+220	1+240	1+260	1+280	1+300	1+320	1+340	1+360	1+380	1+400	1+420	1+440		



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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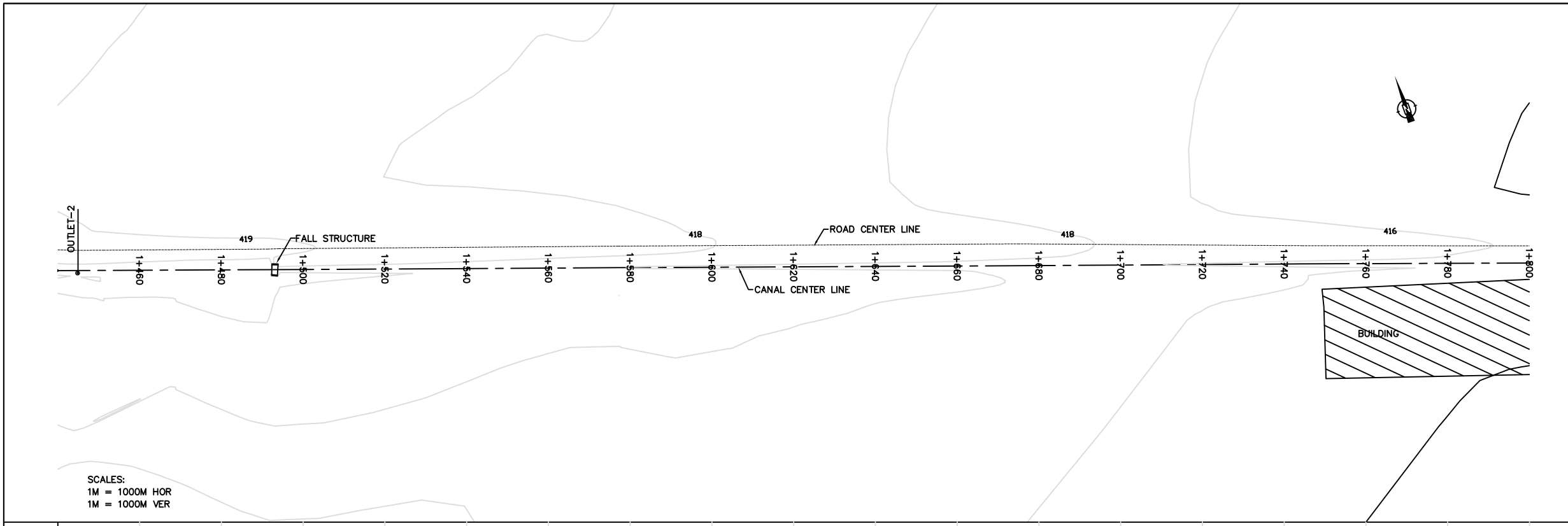
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF MALIK JAN**

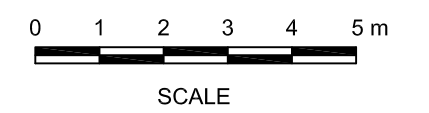
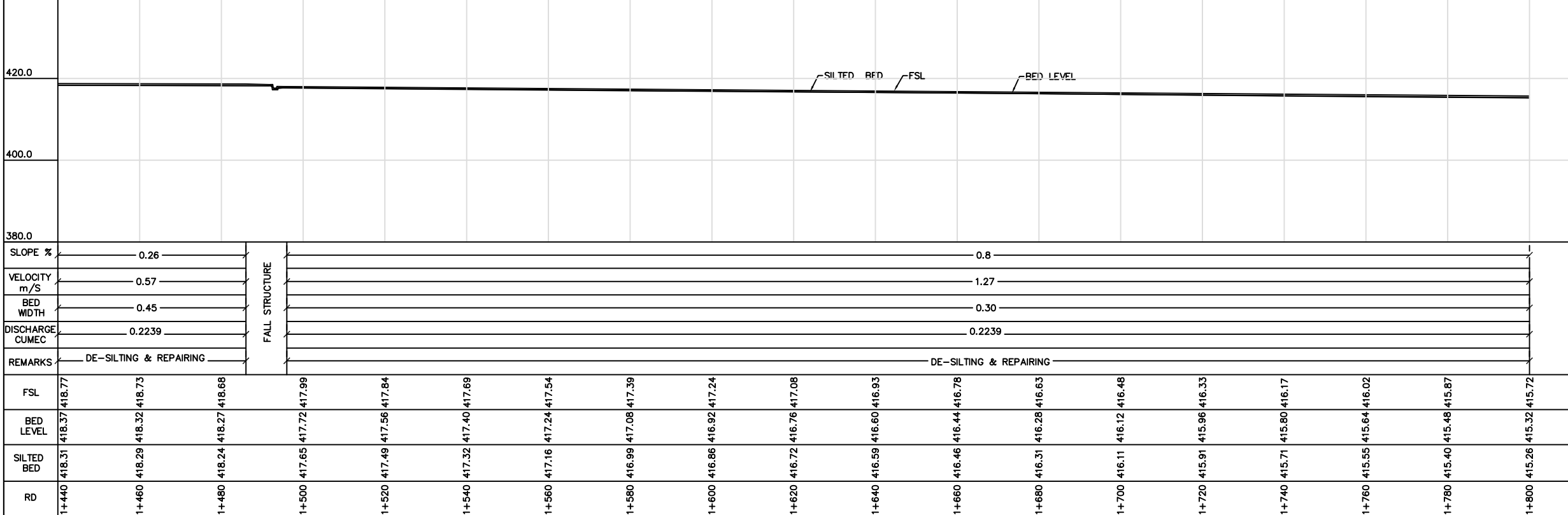
DRG.No:- TND-2704	SHEET:- 4 OF 07	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----



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SCALES:  
1M = 1000M HOR  
1M = 1000M VER



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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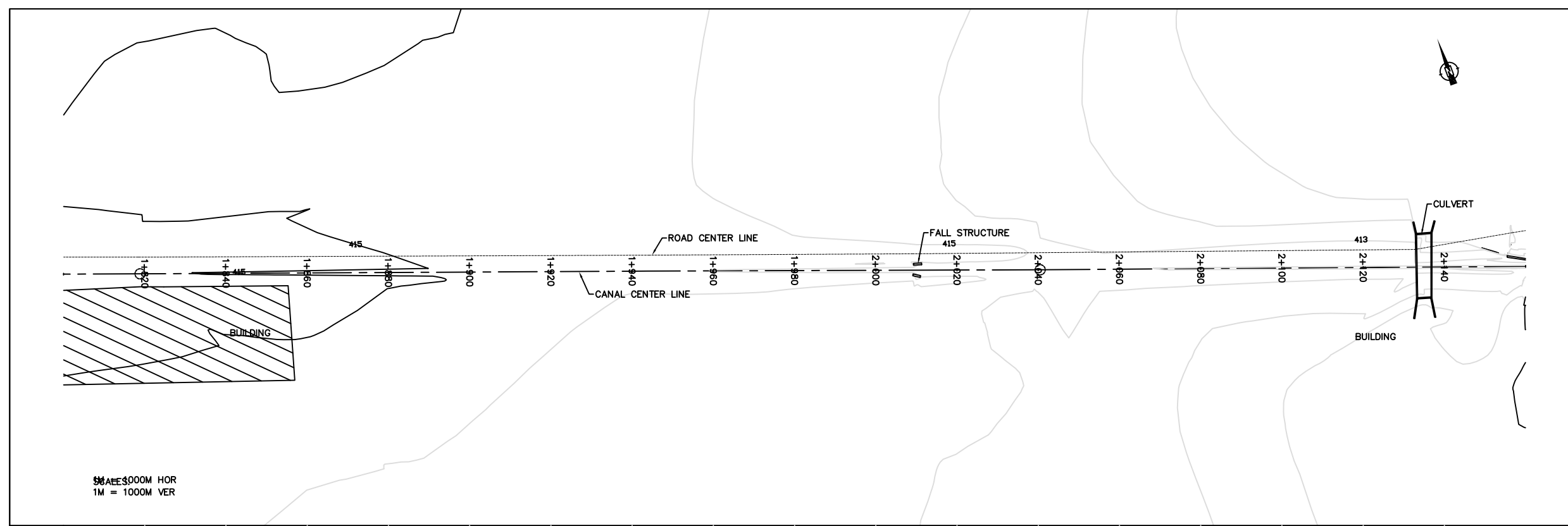
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & PROFILE OF MALIK JAN**

SCALE	DATE
Shown	JANUARY 2021

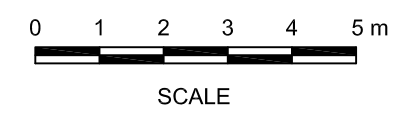
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SCALE 3000 HOR  
1M = 1000M VER

RD	1+800	1+820	1+840	1+860	1+880	1+900	1+920	1+940	1+960	1+980	2+000	2+020	2+040	2+060	2+080	2+100	2+120	2+140	2+160	
FSL	415.72	415.57	415.42	415.27	415.11	414.96	414.81	414.66	414.51	414.36	414.21	413.36	413.31	413.31	413.31	413.31	413.31	413.31	413.29	
BED LEVEL	415.32	415.16	415.00	414.84	414.68	414.52	414.36	414.20	414.04	413.88	413.72	413.07	413.02	412.97	412.92	412.87	412.82	412.77	412.72	
SILTED BED	415.26	415.11	414.94	414.78	414.61	414.45	414.28	414.12	413.99	413.88	413.76	413.12	413.09	413.03	412.96	412.89	412.83	412.77	412.74	
REMARKS	DE-SILTING & REPAIRING											FALL STRUCTURE	DE-SILTING & REPAIRING							
DISCHARGE CUMEC	0.2239												0.2239							
BED WIDTH	0.30												0.30							
VELOCITY m/s	1.27												0.58							
SLOPE %	0.8												0.26							



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

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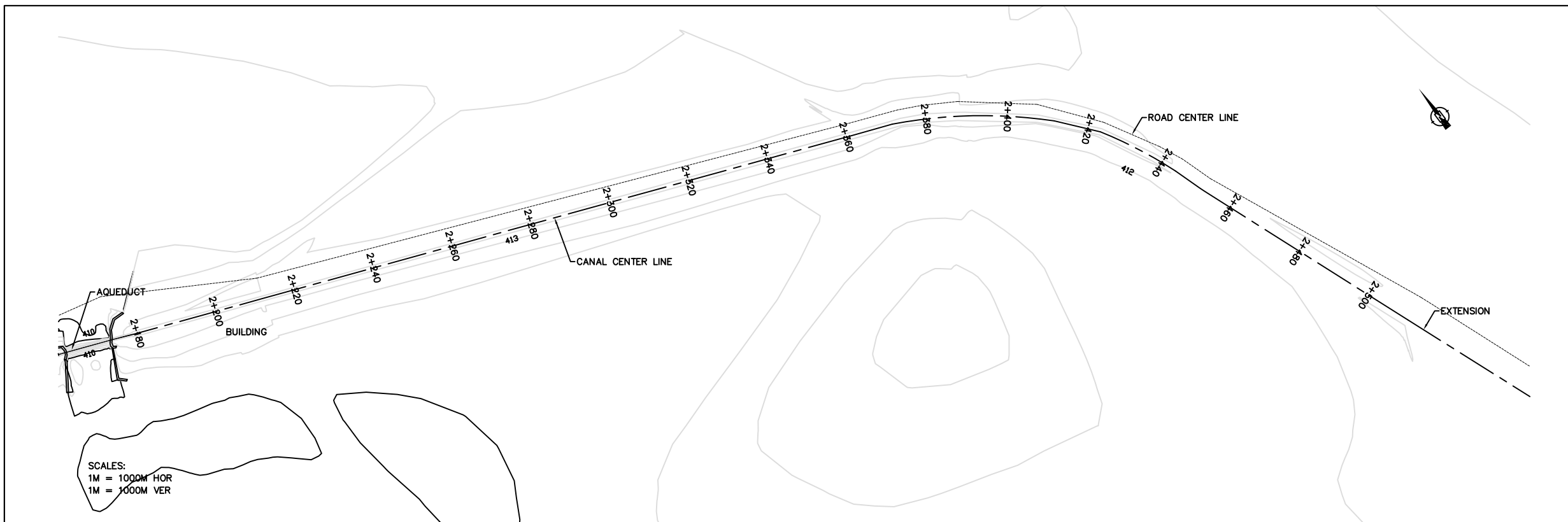
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: **PLAN & PROFILE OF MALIK JAN**

SCALE	DATE
Shown	JANUARY 2021

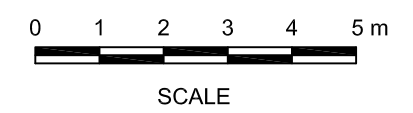
DRG.No:- TND-2706 SHEET:- 6 OF 07 SUB SH.- ----

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SCALES:  
1M = 1000M HOR  
1M = 1000M VER

420.0																SILTED BED	FSL	BED LEVEL
400.0																		
380.0																		
SLOPE %	-0.26	0.06															0.06	
VELOCITY m/s	0.58	0.58															0.58	
BED WIDTH	0.30	0.30															0.30	
DISCHARGE CUMEC																	0.2239	
REMARKS																	DE-SILTING & REPAIRING	
FSL	412.72	413.01	413.02	413.02	413.02	413.02	413.02	413.01	413.01	413.01	412.84	412.71	412.70	412.69	412.69	412.68		
BED LEVEL	412.74	412.72	412.68	412.67	412.66	412.65	412.63	412.62	412.61	412.60	412.54	412.47	412.43	412.34	412.29	412.25		
SILTED BED	412.74	412.72	412.74	412.75	412.73	412.71	412.69	412.67	412.66	412.65	412.64	412.58	412.57	412.51	412.55	412.52	412.49	
RD	2+160	2+180	2+200	2+220	2+240	2+260	2+280	2+300	2+320	2+340	2+360	2+380	2+400	2+420	2+440	2+460	2+480	2+500



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA

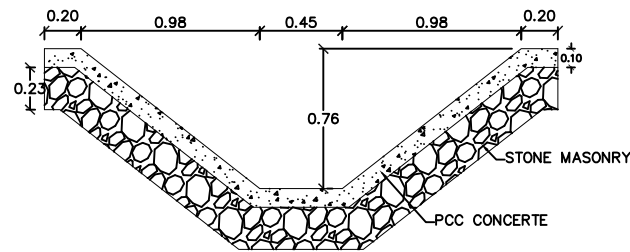
FS CONSULTANTS: CAMEOS

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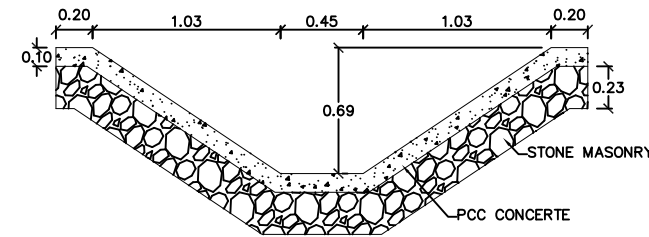
PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: PLAN & PROFILE OF MALIK JAN

DRG.No:- TND-2707	SHEET:- 7 OF 07	SUB SH.-	SCALE: JANUARY 2021	DATE: ----
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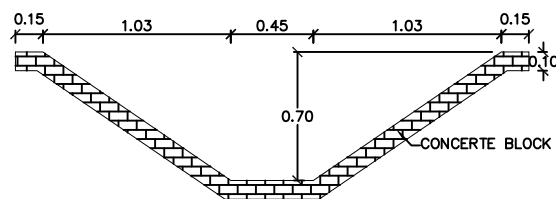


AT RD 0+015

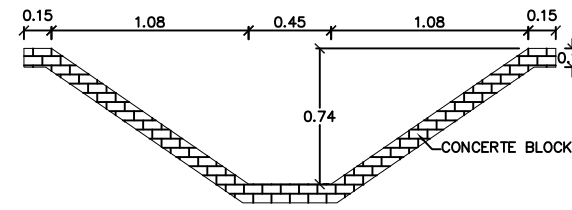


AT RD 0+860

RD 0+015 TO 0+860 PROPOSED DAMAGED P.C.C PANELS  
TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (550m)

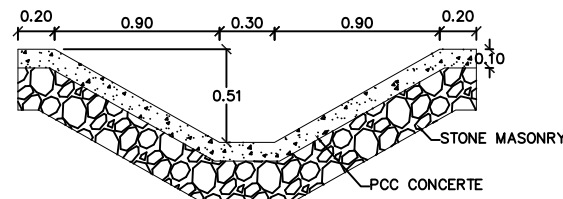


AT RD 0+895

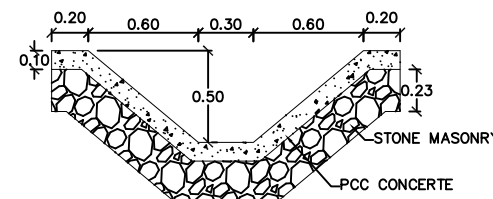


AT RD 1+486

RD 0+895 TO 1+486 PROPOSED DAMAGED P.C.C BLOCK  
TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (100m)

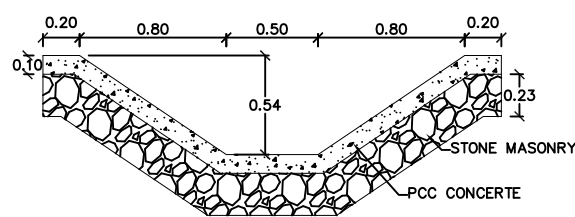


AT RD 1+493

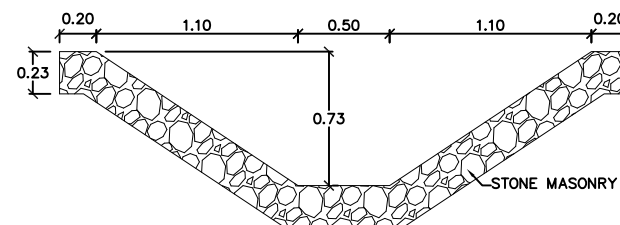


AT RD 2+010

RD 1+486 TO 2+010 PROPOSED DAMAGED P.C.C PANELS  
TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (200m)

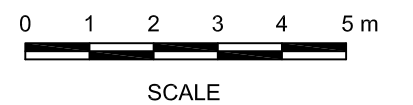


AT RD 2+510




AT RD 2+512




RD 2+011 TO 2+512 PROPOSED DAMAGED P.C.C PANELS  
TO BE REPLACED/REPAIR IN A TOTAL LENGTH OF (154m)



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

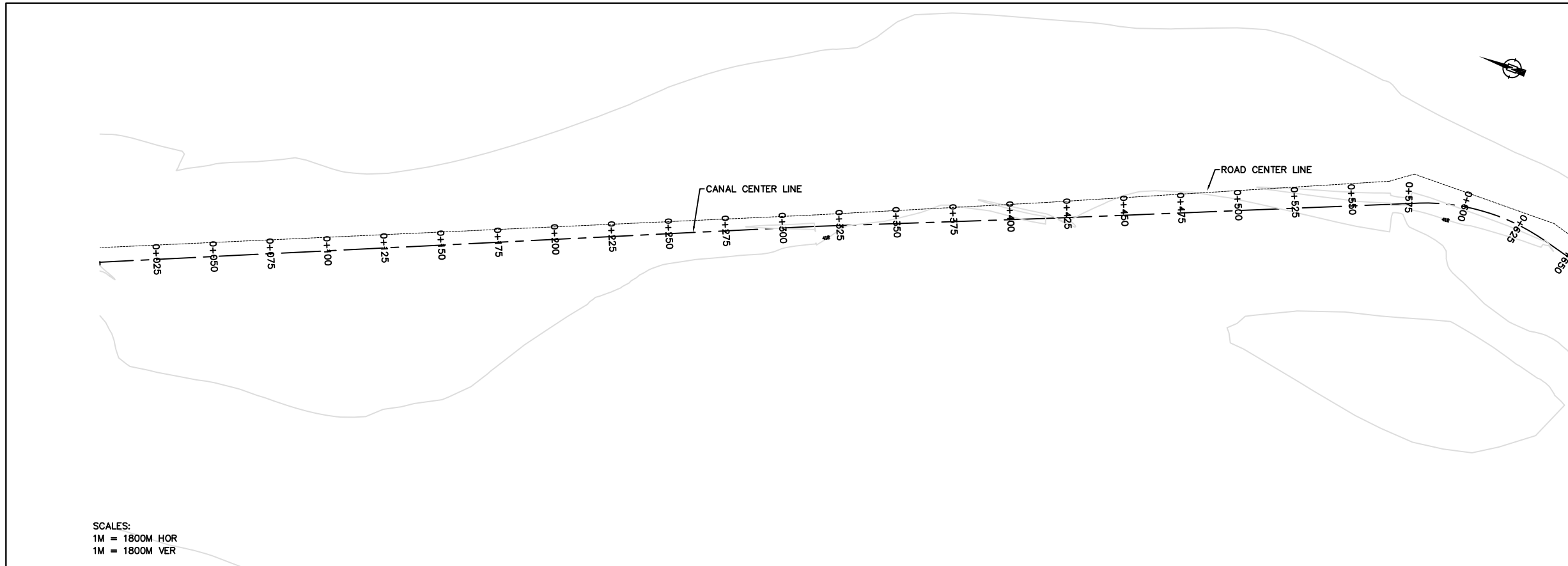
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 IN ASSOCIATION WITH: ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

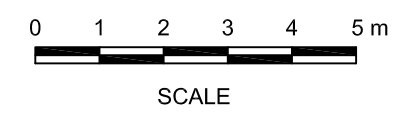
TITLE:  
 EXISTING CROSS SECTION OF MAILK JAN

DRG.No:-	TND-2708	SHEET:-	1 OF 01	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

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425.0																										
400.0																										
375.0																										
SLOPE %	0.07																									
VELOCITY (m/s)	0.6																									
BED WIDTH (m)	0.50																									
DISCHARGE CUMEC	0.2239																									
WATER LEVEL	412.61	412.59	412.58	412.56	412.54	412.52	412.51	412.49	412.47	412.45	412.44	412.42	412.40	412.38	412.37	412.35	412.33	412.31	412.29	412.28	412.26	412.24	412.22	412.20	412.18	412.16
BED LEVEL	412.22	412.20	412.19	412.17	412.15	412.13	412.12	412.10	412.08	412.06	412.05	412.03	412.01	411.99	411.98	411.96	411.94	411.92	411.91	411.89	411.87	411.85	411.84	411.82	411.80	411.78
SILTED BED	412.47	412.65	412.57	412.54	412.51	412.49	412.47	412.45	412.35	412.36	412.47	412.50	413.11	412.11	411.94	411.83	411.96	412.05	411.90	411.84	411.91	412.14	412.05	411.97	412.25	412.14
RD	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525	0+550	0+575	0+600	0+625



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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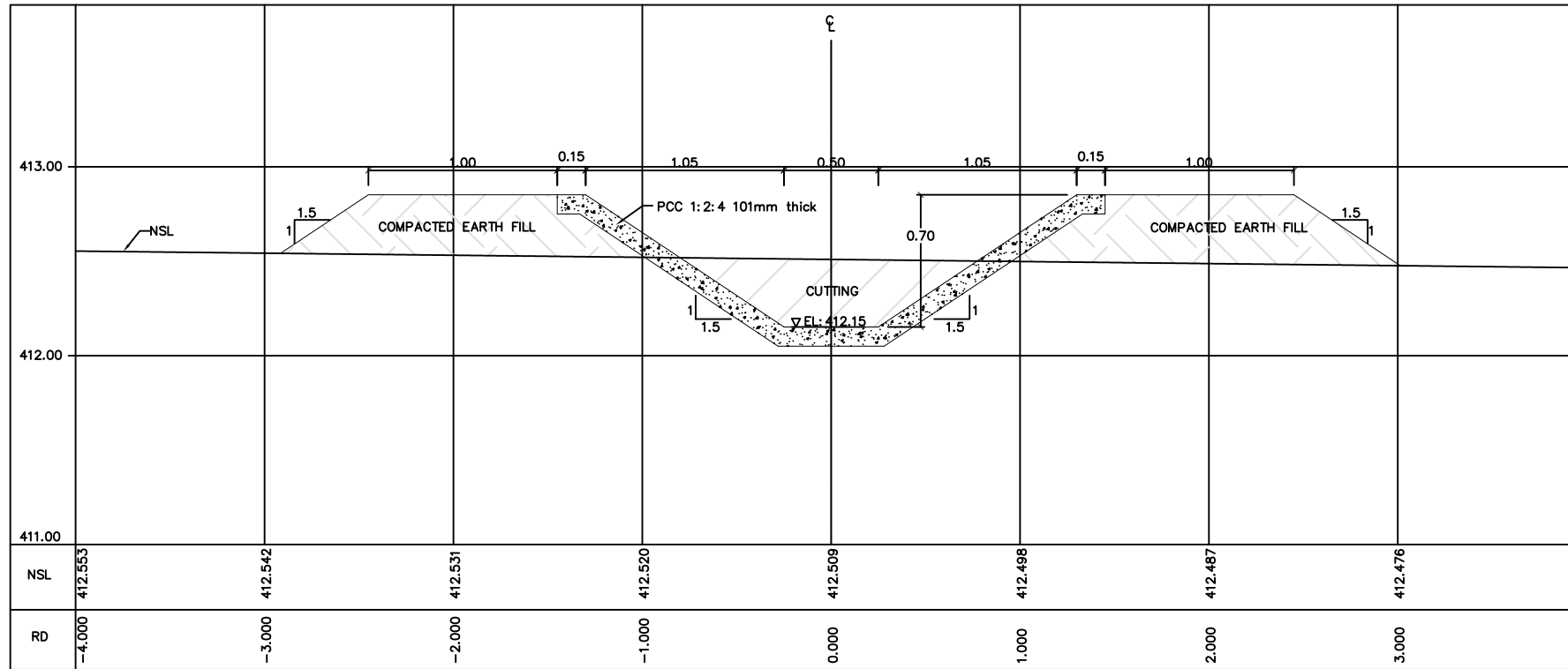
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF TANDA DAM  
 MALIK JAN EXTENSION**

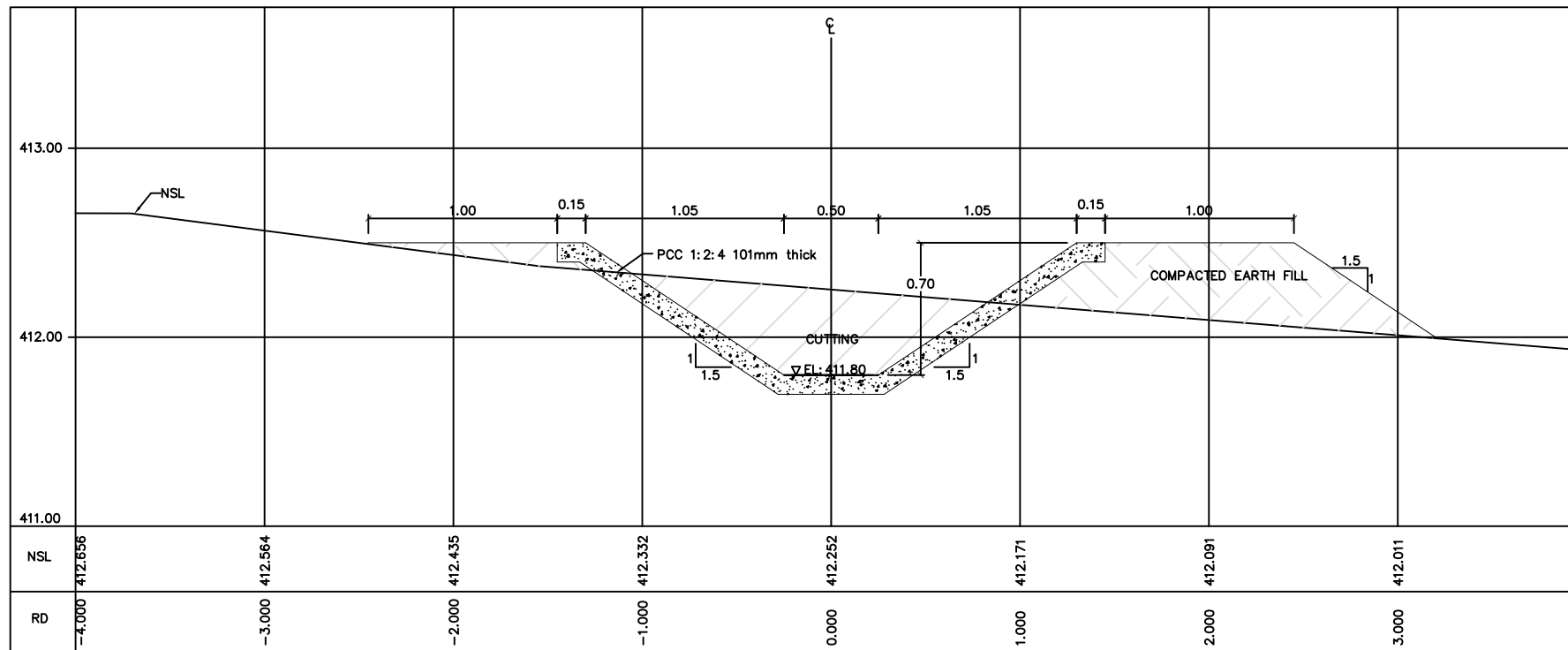
DRG.No:-	TND-2801	SHEET:-	01 OF 02	SCALE	DATE
				Shown	JANUARY 2021
		SUB SH.-	----		



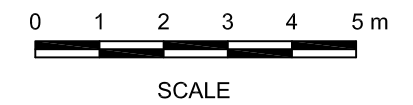
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AT RD 0+100







AT RD 0+600



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FS CONSULTANTS:  
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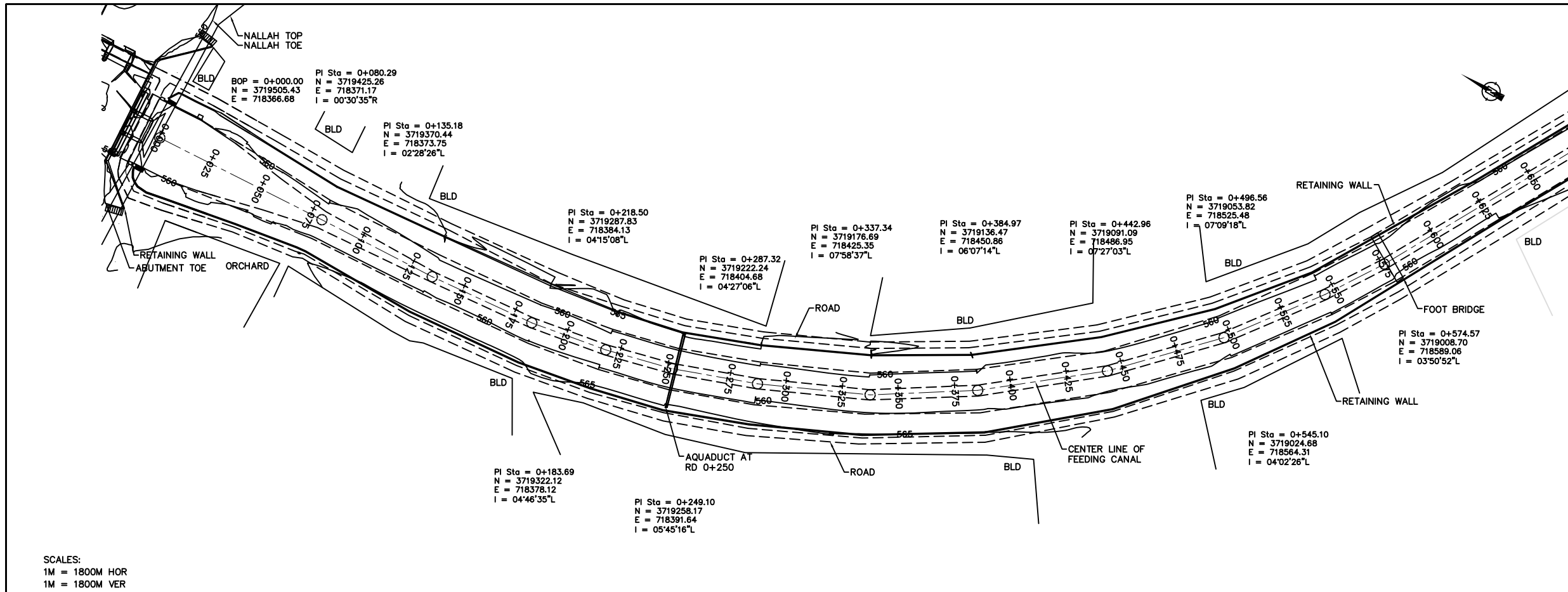
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**CROSS SECTION OF MALIK JAN EXTENSION**

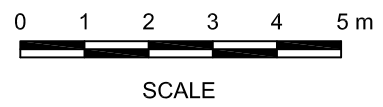
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2803 SHEET:- 1 OF 01 SUB SH.-

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575.0																			575.0																															
550.0	EXISTING BED																		550.0																															
525.0	WATER LEVEL																		525.0																															
500.0																			500.0																															
SLOPE %			0.91	1.15	1.15	1.58														0.06																														
VELOCITY (m/s)			0.078	0.02	1.1	1.2															1.98																													
DISCHARGE CUMEC	84.95																																																	
RD	0+050	0+025	0+000	0+025	0+050	0+075	0+100	0+125	0+150	0+175	0+200	0+225	0+250	0+275	0+300	0+325	0+350	0+375	0+400	0+425	0+450	0+475	0+500	0+525	0+550	0+575																								
WATER LEVEL			560.35	557.52	560.32	557.62	560.27	557.63	559.74	557.48	559.46	557.21	559.45	556.97	559.45	556.82	559.44	556.76	559.44	556.81	559.43	556.84	559.43	556.95	559.42	556.83	559.41	556.71	559.41	556.55	559.40	556.61	559.40	556.81	559.39	556.84	559.39	556.77	559.38	556.74	559.38	556.70	559.37	556.68	559.37	556.66	559.36	556.59	559.36	556.37
EXISTING BED			560.35	557.52	560.32	557.62	560.27	557.63	559.74	557.48	559.46	557.21	559.45	556.97	559.45	556.82	559.44	556.76	559.44	556.81	559.43	556.84	559.43	556.95	559.42	556.83	559.41	556.71	559.41	556.55	559.40	556.61	559.40	556.81	559.39	556.84	559.39	556.77	559.38	556.74	559.38	556.70	559.37	556.68	559.37	556.66	559.36	556.59	559.36	556.37



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CLIENT:  
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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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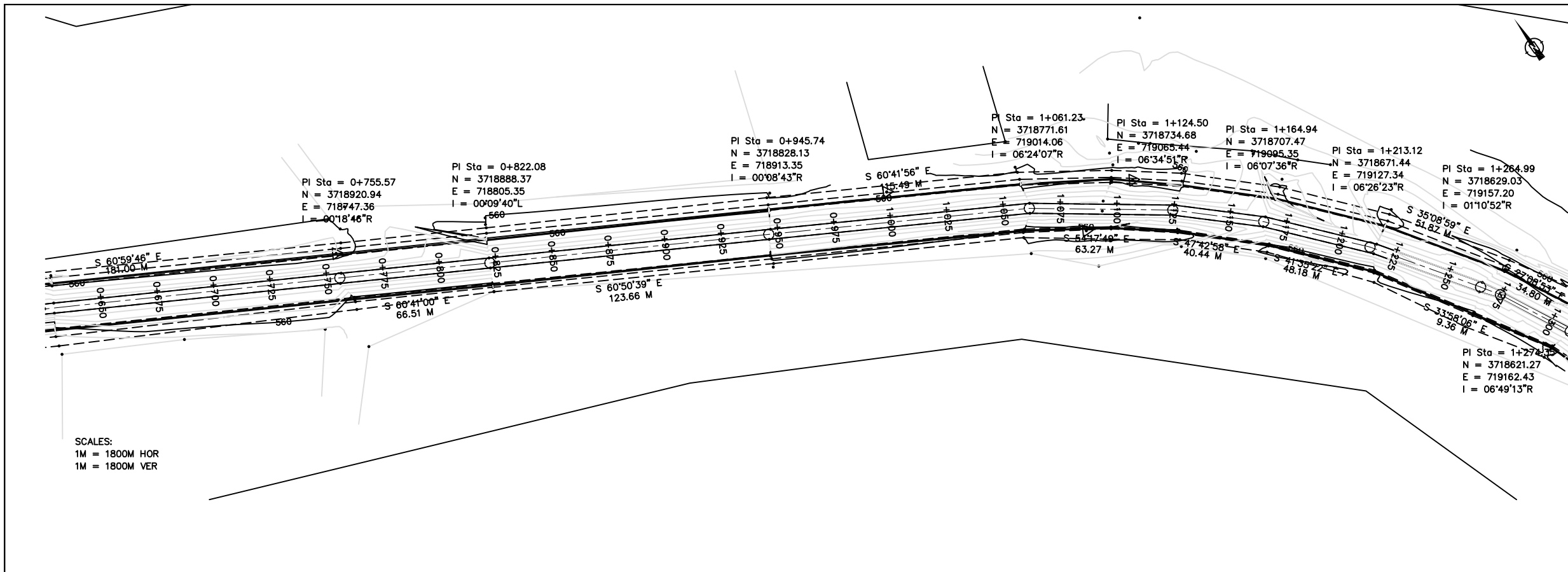
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & PROFILE OF FEEDING CANAL**

DRG.No:-	TND-2801-A	SHEET:-	1 OF 03	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

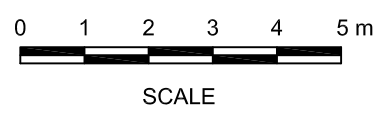


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SCALES:  
 1M = 1800M HOR  
 1M = 1800M VER

600.0																										600.0
575.0																										575.0
550.0																										550.0
525.0																										525.0
500.0																										500.0
SLOPE %																										0.06
VELOCITY (m/s)																										1.98
DISCHARGE CUMEC																										84.95
WATER LEVEL	559.35	559.34	559.33	559.33	559.32	559.32	559.31	559.31	559.30	559.30	559.29	559.29	559.28	559.28	559.27	559.27	559.26	559.25	559.25	559.24	559.24	559.23	559.23	559.22	559.22	559.21
EXISTING BED	556.31	556.31	556.31	556.31	556.29	556.27	556.25	556.23	556.23	556.22	556.21	556.20	556.19	556.18	556.17	556.16	556.14	556.13	556.14	556.15	556.15	556.11	556.08	556.03	556.00	555.99
RD	0+625	0+650	0+675	0+700	0+725	0+750	0+775	0+800	0+825	0+850	0+875	0+900	0+925	0+950	0+975	1+000	1+025	1+050	1+075	1+100	1+125	1+150	1+175	1+200	1+225	1+250



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

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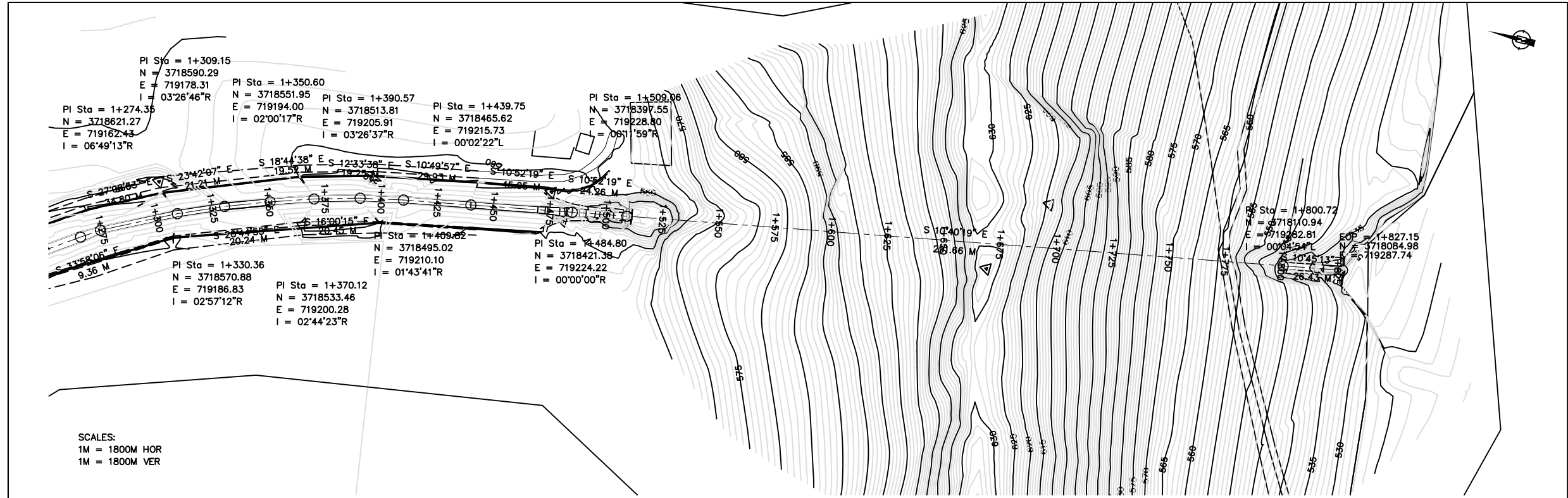
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**PLAN & PROFILE OF FEEDING CANAL**

SCALE	DATE
Shown	JANUARY 2021

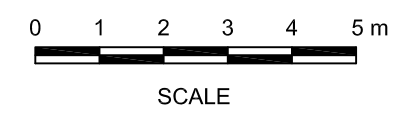
DRG.No:- TND-2802-A    SHEET:- 2 OF 03    SUB SH.-: ----

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SCALES:  
1M = 1800M HOR  
1M = 1800M VER

600.0																						600.0
575.0																						575.0
550.0																						550.0
525.0																						525.0
500.0																						500.0



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CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

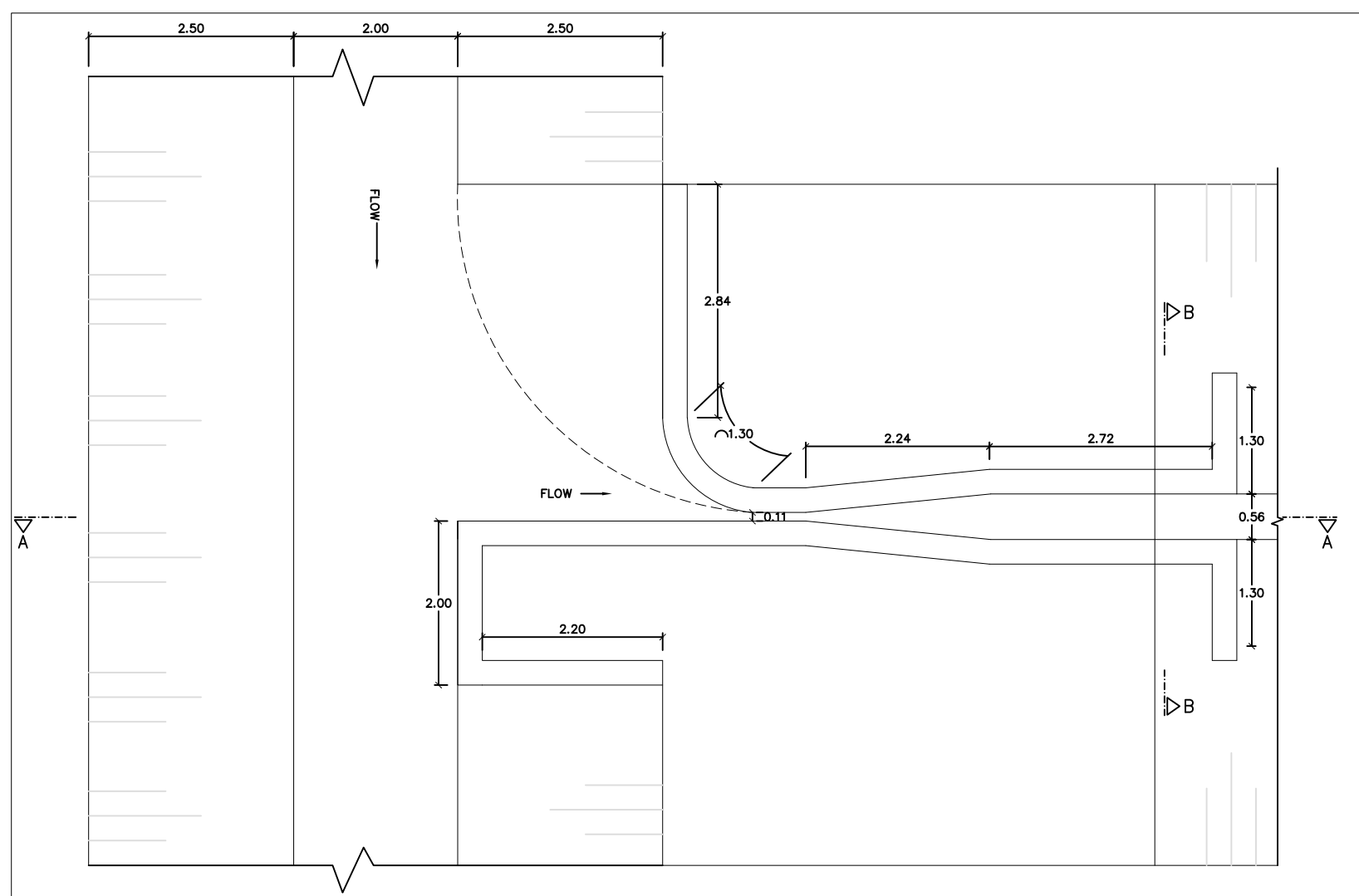
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

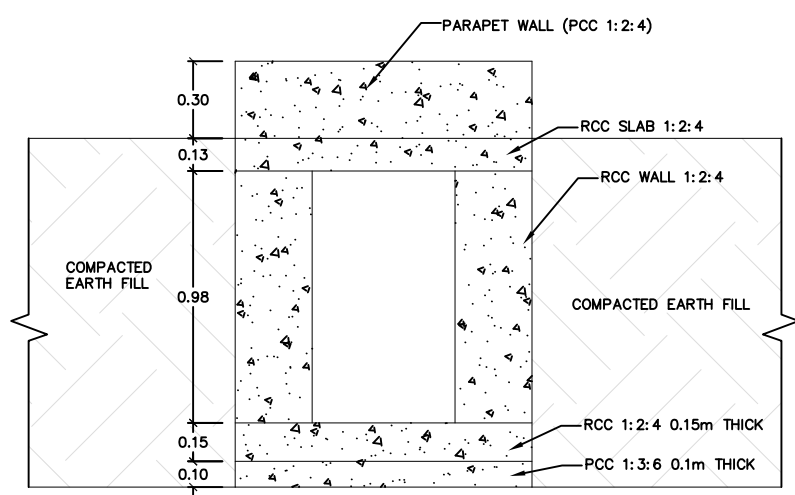
TITLE:  
PLAN & PROFILE OF FEEDING CANAL

DRG.No:- TND-2803-A	SHEET:- 3 OF 03	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

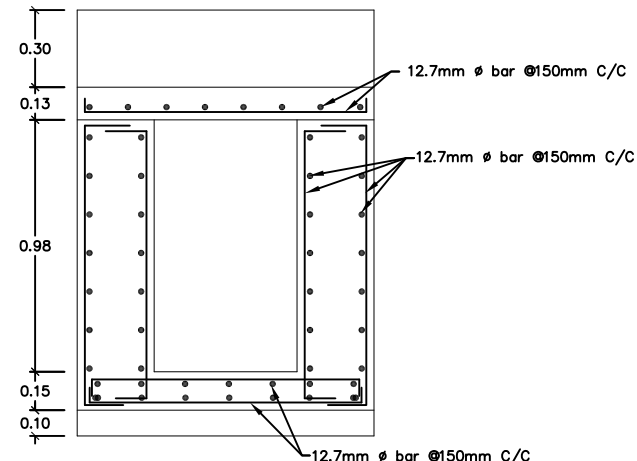
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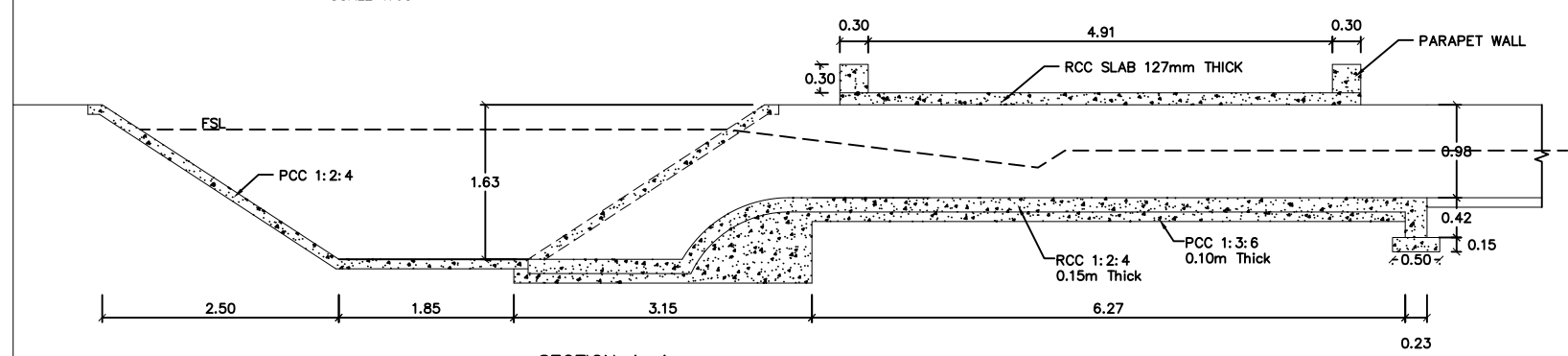
OUTLET PLAN  
SCALE 1:65



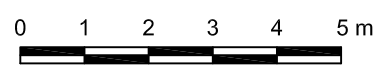
SECTION B-B  
SCALE 1:25



REINFORCEMENT DETAIL OF SECTION B-B  
SCALE 1:25




SECTION A-A  
SCALE 1:65






SCALE

TENDER DRAWING

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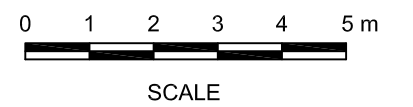
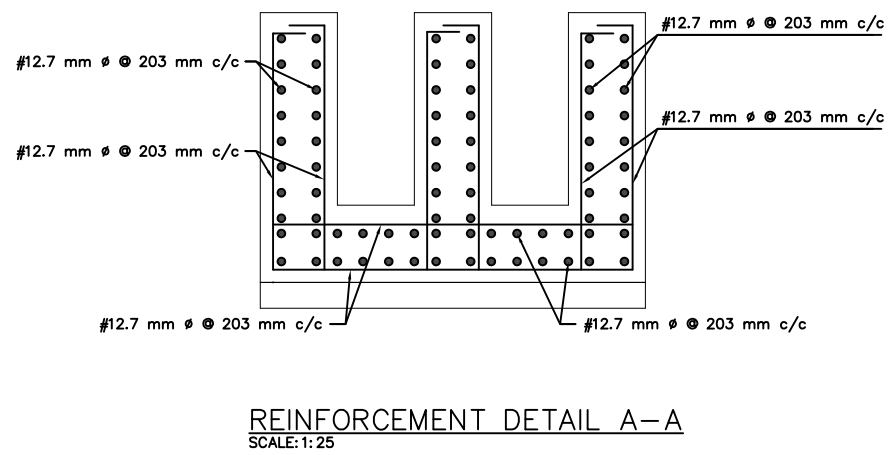
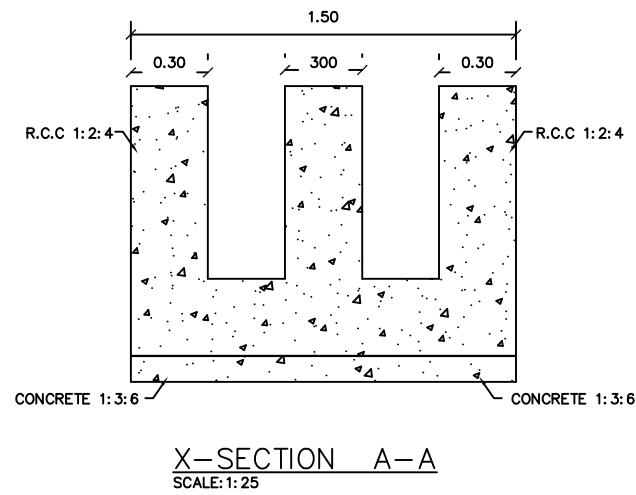
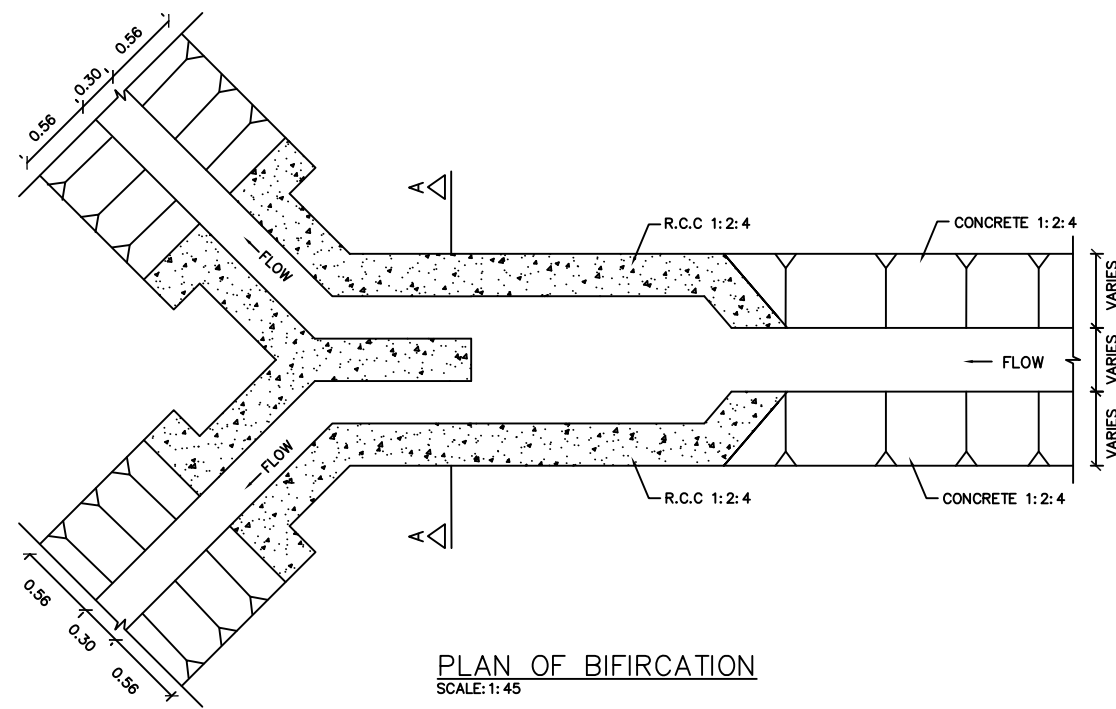
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**TYPICAL PLAN, CROSS  
 SECTIONS & REINFORCEMENT  
 OF OUTLET**

DRG.No:-	TND-2901	SHEET:-	1 OF 01	SCALE	DATE
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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
**CAMEOS**

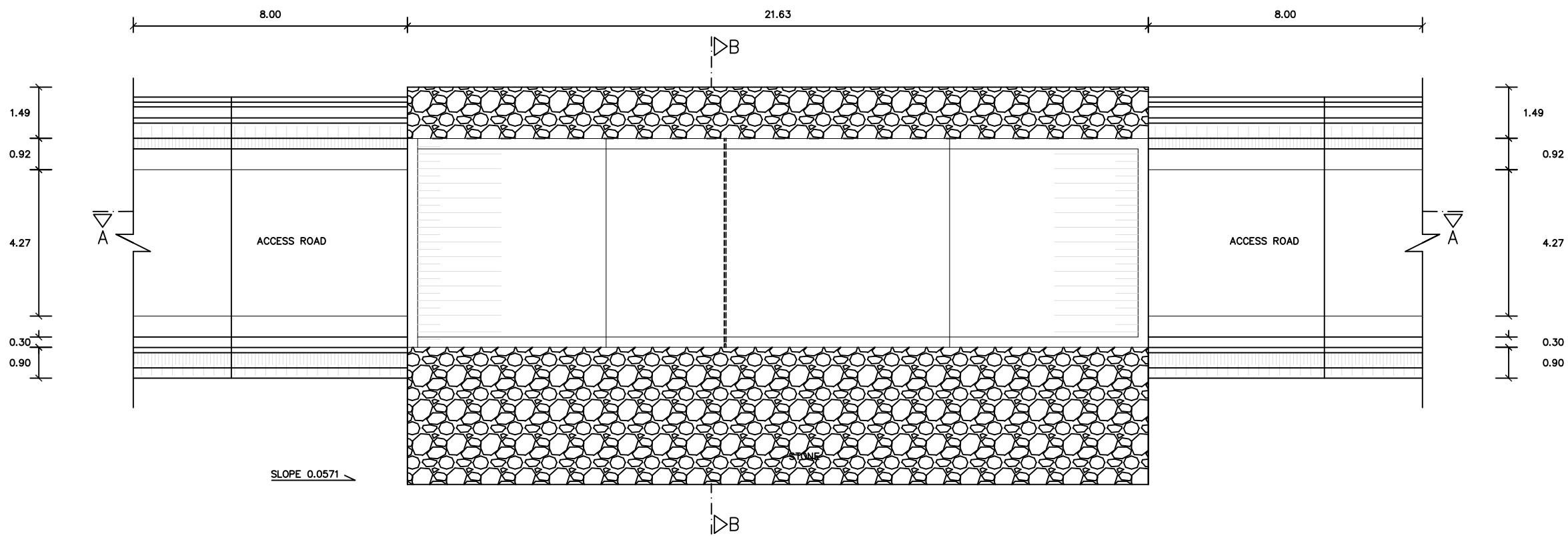
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

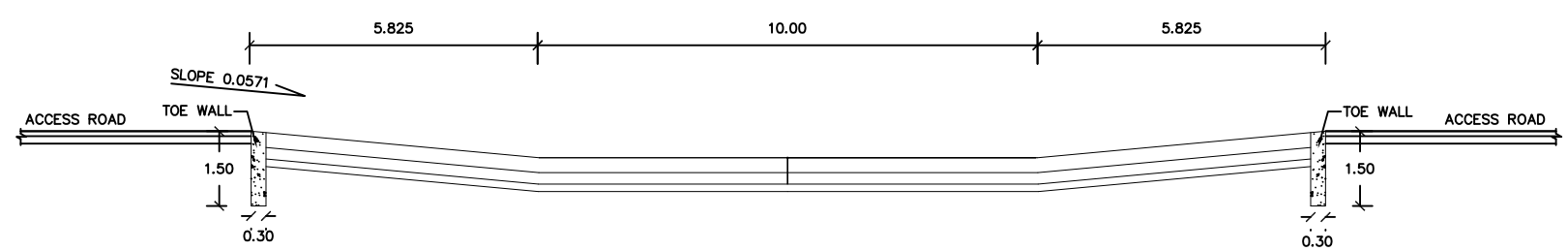
TITLE:  
**BIFURCATION PLAN,  
 X-SECTION &  
 REINFORCEMENT DETAIL**

DRG.No:- TND-2902	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

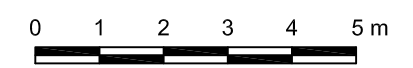
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TYPICAL PLAN OF CAUSEWAY





X-SECTION






SCALE

TENDER DRAWING

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 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
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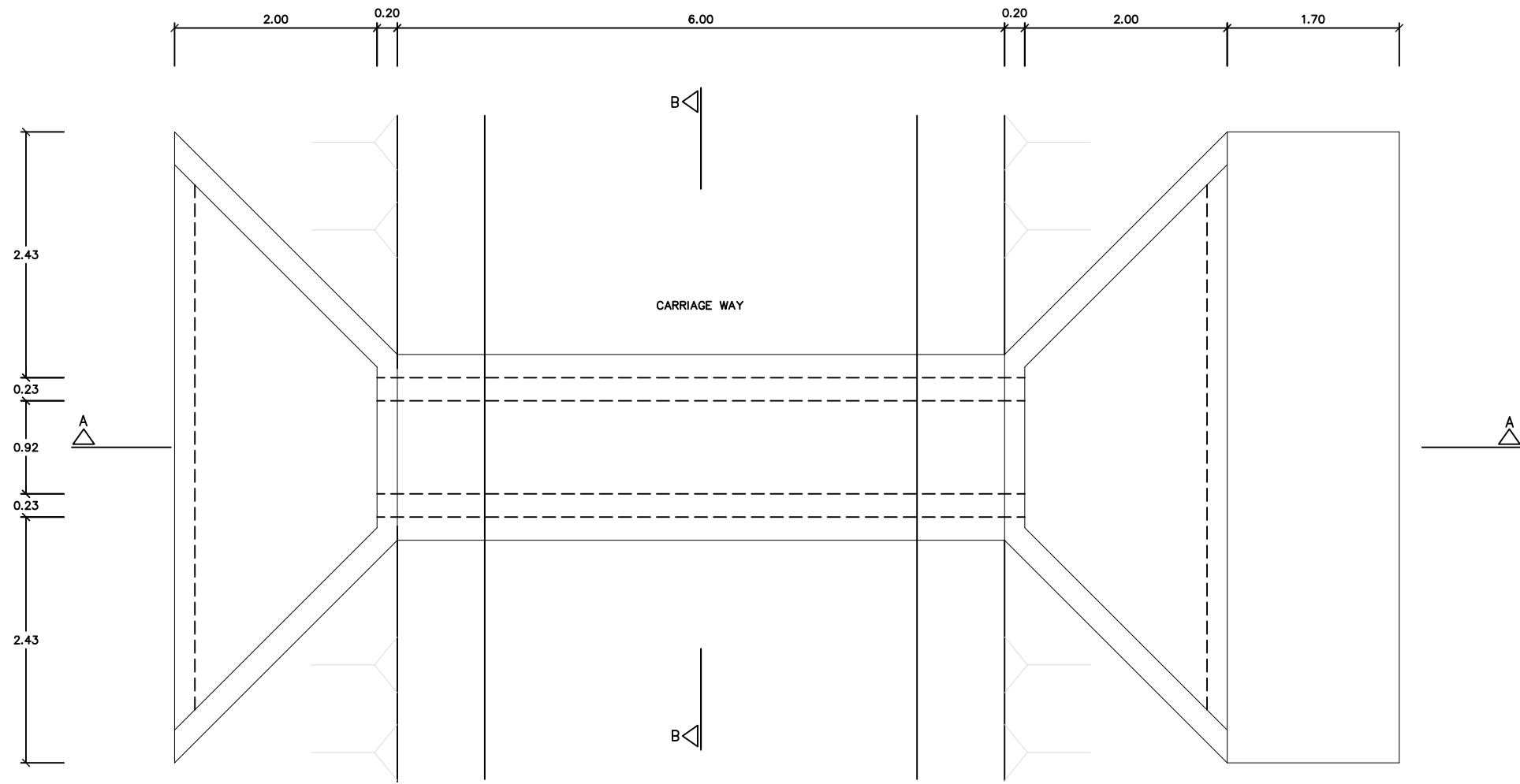
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

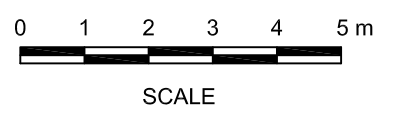
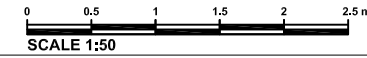
TITLE:  
**TYPICAL PLAN OF CAUSEWAY & SECTION**

DRG.No:- TND-2903	SHEET:- 1 OF 01	SCALE	DATE
		Shown	JANUARY 2021
		SUB SH.-	----

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TYPICAL BOX CULVERT PLAN



TENDER DRAWING

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 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

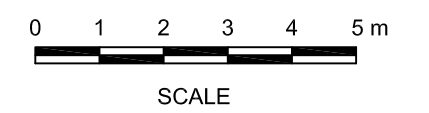
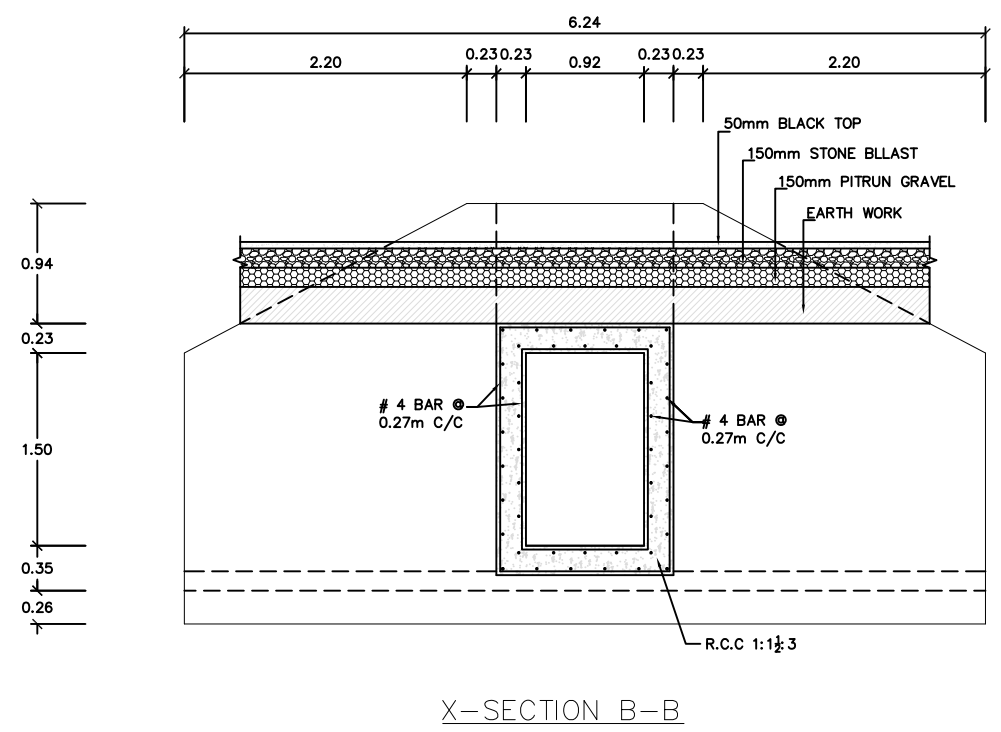
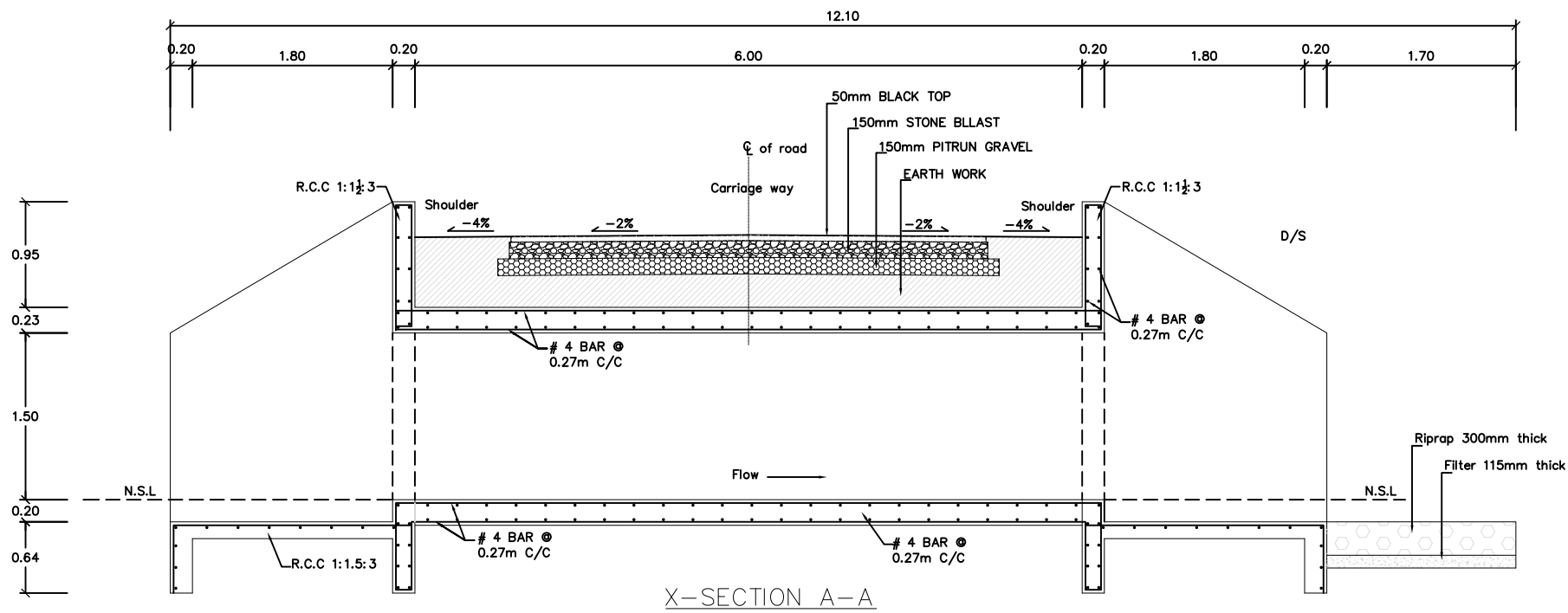
FS CONSULTANTS:  
 CAMEOS

REVISED & UPDATED FOR TENDER BY:  
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 CASCADE GROUP OF  
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 IN ASSOCIATION WITH:  
 ENGINEERING & TECHNICAL ASSOCIATES

PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
 TYPICAL BOX CULVERT  
 PLAN

DRG.No:-	TND-2904	SHEET:-	1 OF 01	SUB SH.-	----
SCALE	DATE				
Shown	JANUARY 2021				



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: CAMEOS

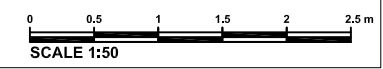
REVISED & UPDATED FOR TENDER BY:  
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE: SECTION A-A, SECTION B-B OF BOX CULVERT

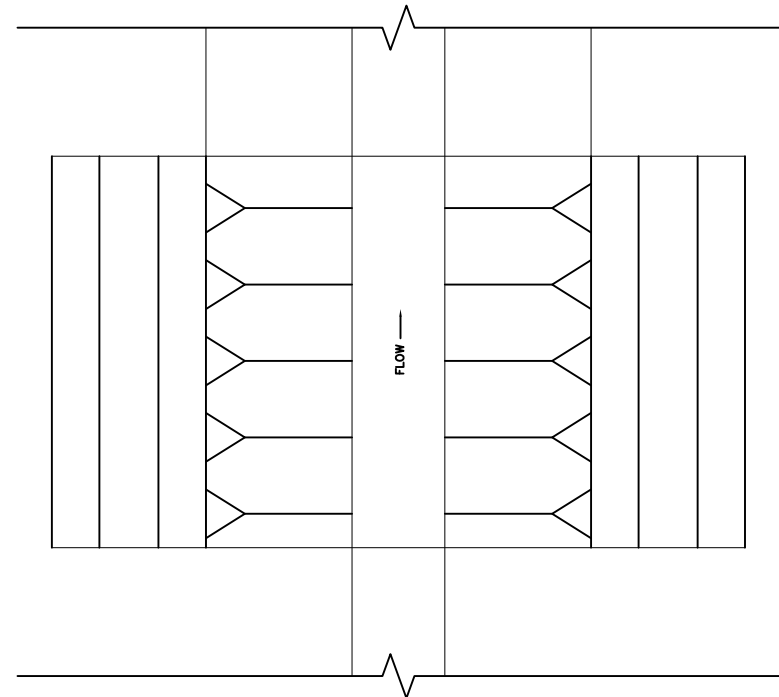
SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-2905 SHEET:- 1 OF 01 SUB SH.-

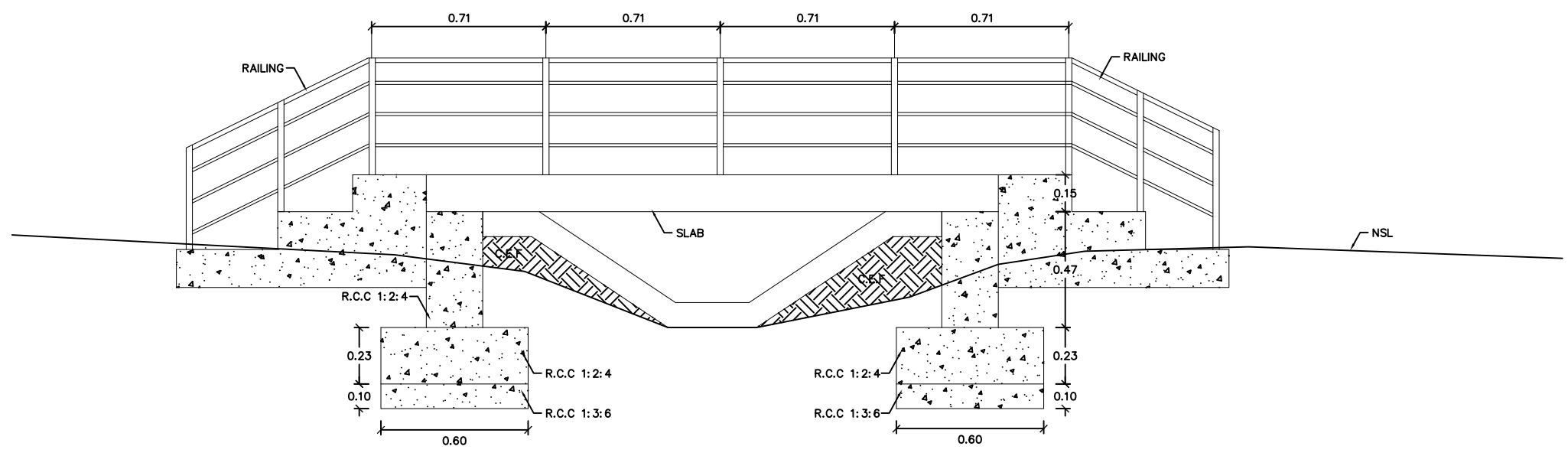


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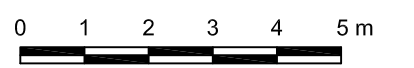
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PLAN OF TYPICAL FOOT BRIDGE  
SCALE 1:25




TYPICAL CROSS SECTION FOOT BRIDGE  
SCALE 1:20






SCALE

TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

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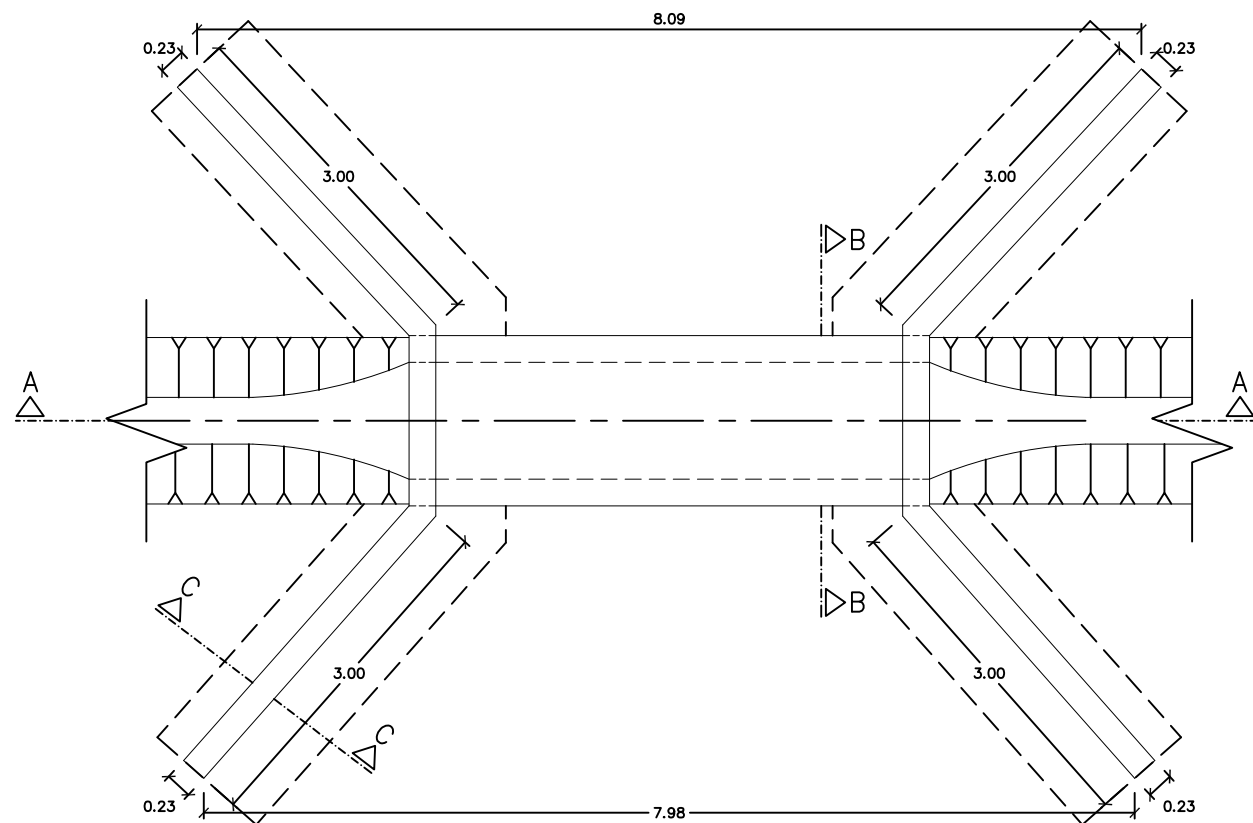
PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**PLAN & TYPICAL CROSS SECTION FOOT BRIDGE**

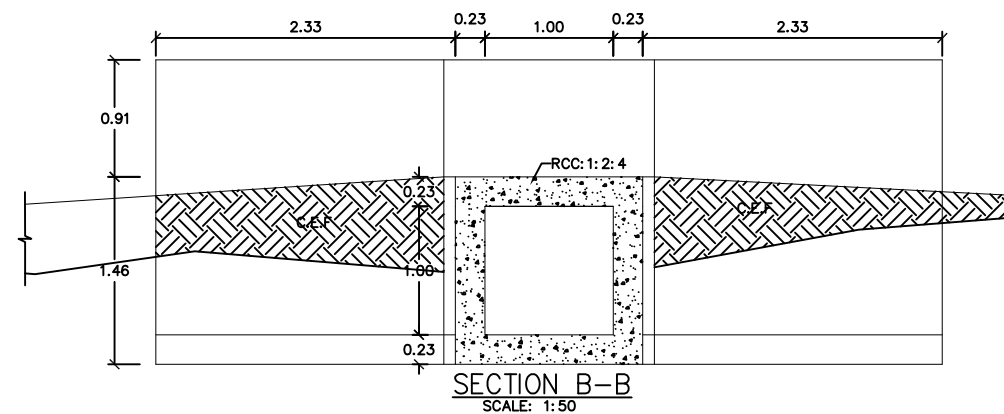
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				Shown	JANUARY 2021
		SUB SH.-	----		



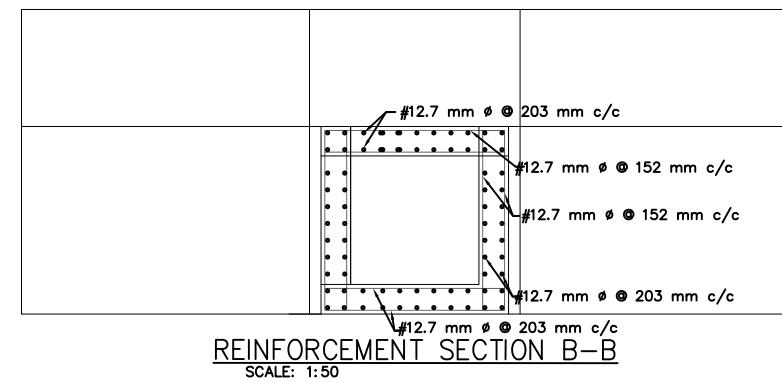
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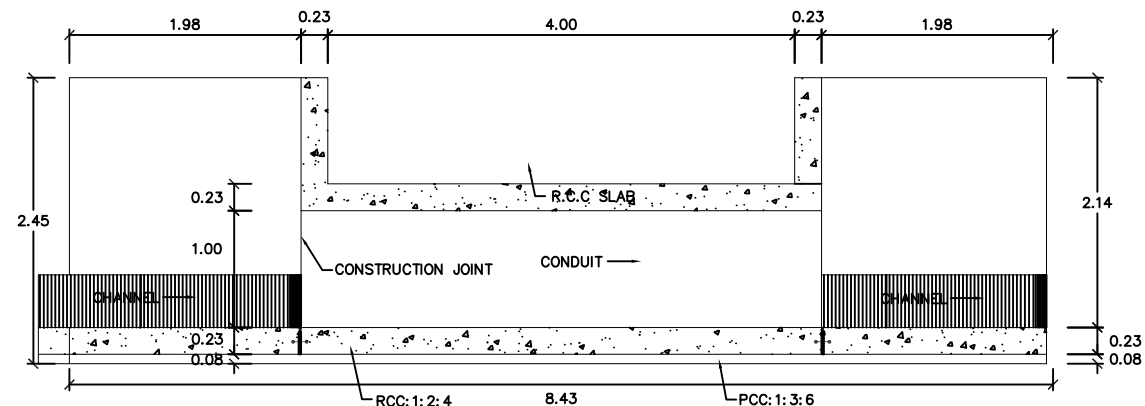
**TYPICAL PLAN OF ROAD CROSSING**  
SCALE: 1:55



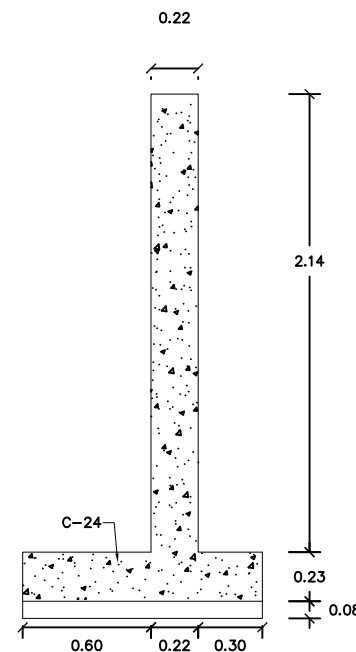
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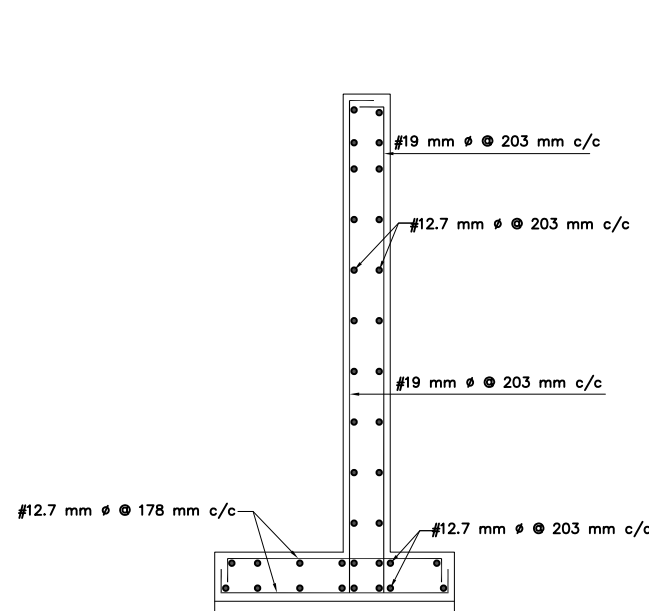
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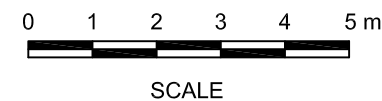
**SECTION A-A**  
SCALE: 1:55



**SECTION C-C**  
SCALE: 1:30



**REINFORCEMENT SECTION C-C**  
SCALE: 1:30



SCALE

**TENDER DRAWING**

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

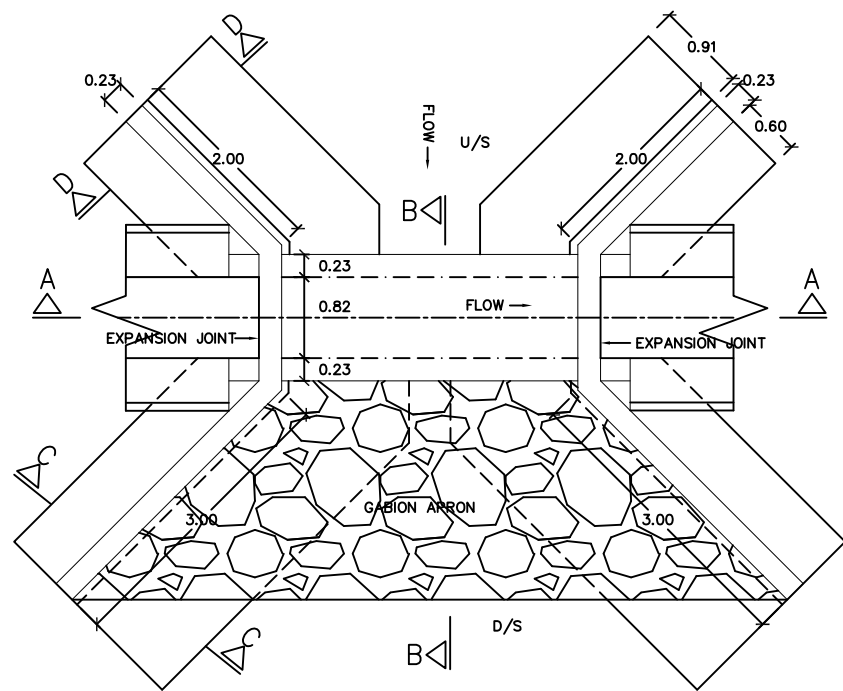
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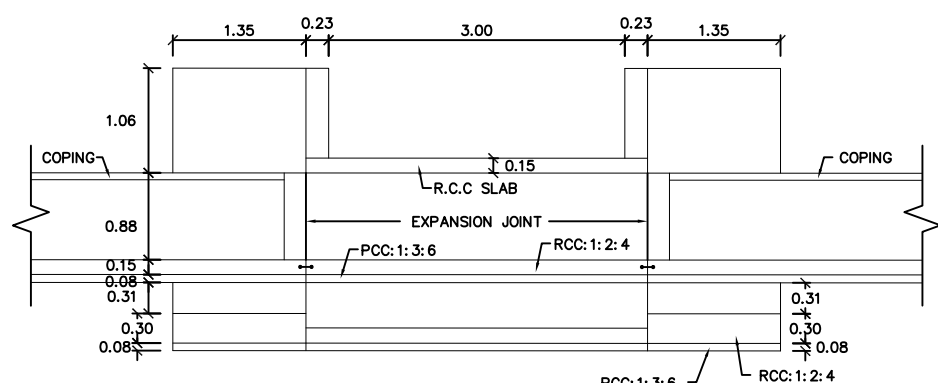
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		Show	JANUARY 2021
		SUB SH.-	----

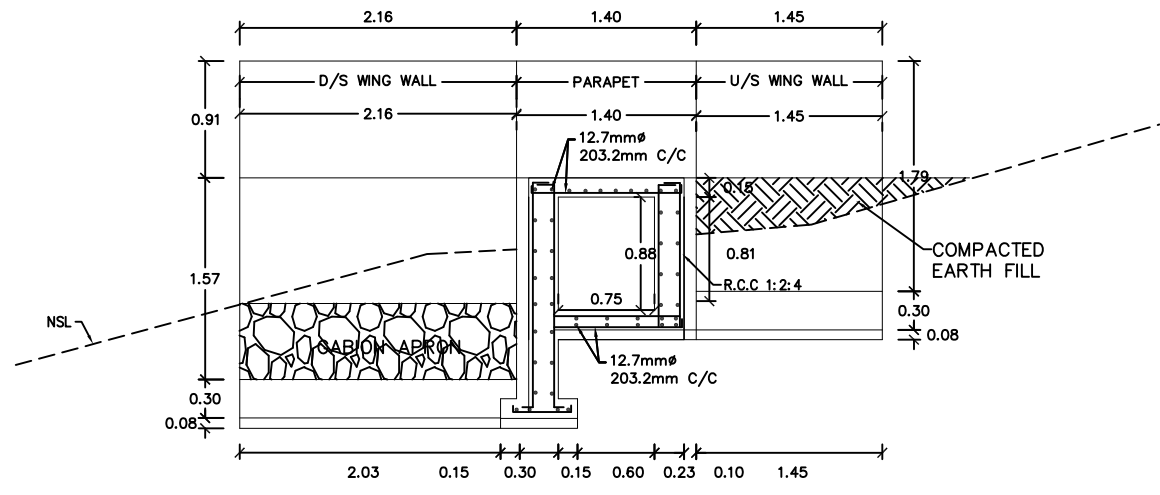
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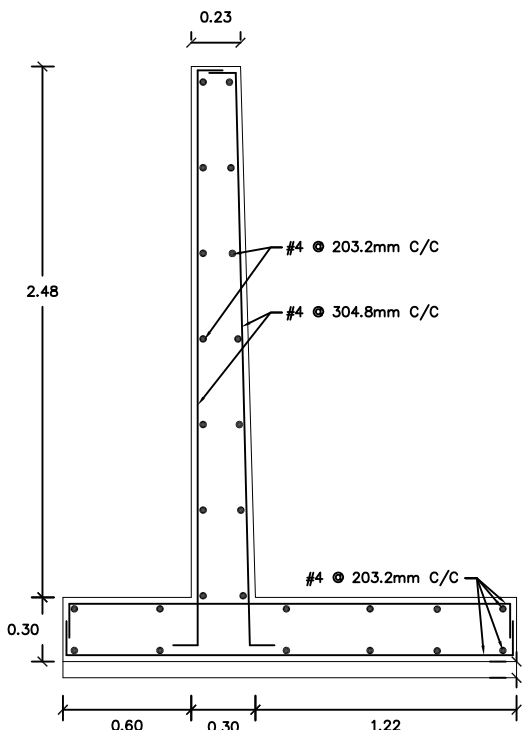
**PLAN OF SUPER PASSAGE**  
SCALE: 1:65



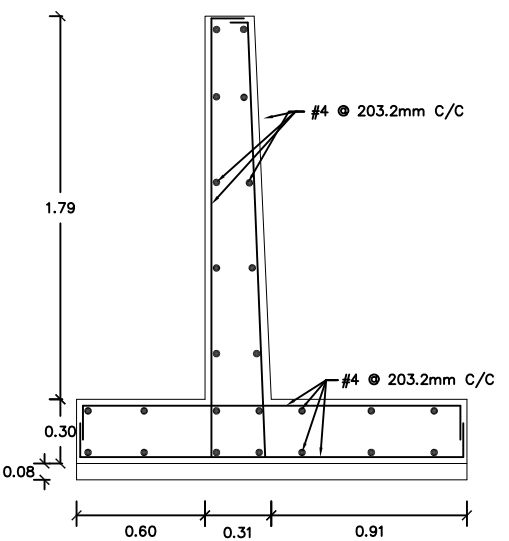
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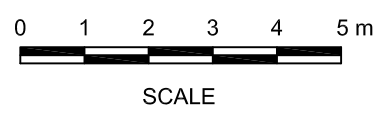
**SECTION B-B**  
SCALE: 1:50




**REINFORCEMENT DETAIL AT SECTION C-C**  
SCALE: 1:30







**REINFORCEMENT DETAIL AT SECTION D-D**  
SCALE: 1:30



**TENDER DRAWING**

CLIENT:  
 **KOHAT IRRIGATION DIVISION KOHAT**  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 **CAMEOS**

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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**SUPER PASSAGE PLAN, X-SECTION & REINFORCEMENT DETAIL**

DRG.No:-	TND-2908	SHEET:-	1 OF 01	SCALE	DATE
				Shown	JANUARY 2021
				SUB SH.-	----

# GENERAL NOTES

1. ALL THE DIMENSIONS ARE IN FEET/ INCHES & LEVELS IN FEET/ INCHES.
2. CEILING HEIGHT FROM THE FINISH FLOOR LEVEL SHALL BE 11'-0" FOR RESIDENTIAL BUILDINGS AT EVERY STOREY.
3. STAIRS SHOULD HAVE EQUAL AND COMFORTABLE STEPS THROUGHOUT THE FLIGHT AND PROPER LANDING AT EVERY STAIR CASE. THE TREAD SHOULD BE 12 INCHES OR 30 CM MINIMUM AND RISE SHOULD NOT BE MORE THAN 6 INCHES OR 15 CM HIGH WITH ROUND EDGE NOSE.
4. NON-GLAZED FLOOR FINISH WITH NO LEVEL DIFFERENCE ON ONE FLOOR AREA DEVELOPMENT OF PLAYING OR RECREATIONAL AREAS.
5. ALL THE CORNERS OF WALLS AND COLUMNS SHALL BE ROUNDED TILL 5' 6" FROM FFL.
6. CLASS ROOM DOORS SHOULD NOT HAVE INSIDE LATCH OR BOLTS TO AVOID LOCKING SYSTEM FROM INSIDE.
7. DOORS BOLTS OR LOCKS SHOULD BE AT HEIGHT OF 3'-9". REACHABLE FOR JUNIOR STUDENTS.
8. WINDOWS SHOULD HAVE PROPER SHADES AND HAVE SLIDING PANELS INSTEAD OF OPEN ABLE LEAF PANELS.
9. THE HEIGHT OF THE BOUNDARY WALL SHOULD NOT EXCEED 2M FROM THE GROUND OR THE WALKWAY. IF MORE HEIGHT IS DESIRED, STEEL GUARD RAILS OR FENCE CAN BE USED.

## LIST OF SYMBOLS AND ABBREVIATIONS

NSL	NATURAL SOIL LEVEL
FFL	FINISH FLOOR LEVEL
ELE.	ELEVATION
SEC.	SECTION
PL	PLINTH LEVEL
CE	COMPACTED EARTH
SYM	SYMMETRICAL

0 1 2 3 4 5 m



SCALE

TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: <b>CAMEOS</b>	REVISED & UPDATED FOR TENDER BY: A Joint Venture of: <b>RHC</b> REHMAN HABIB CONSULTANTS (PVT) LTD. <b>CASCADE GROUP OF</b> ENGINEERING & CONSULTANTS <b>ETA</b> IN ASSOCIATION WITH ENGINEERING & TECHNICAL ASSOCIATES
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

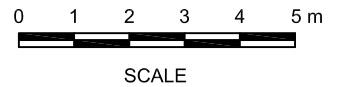
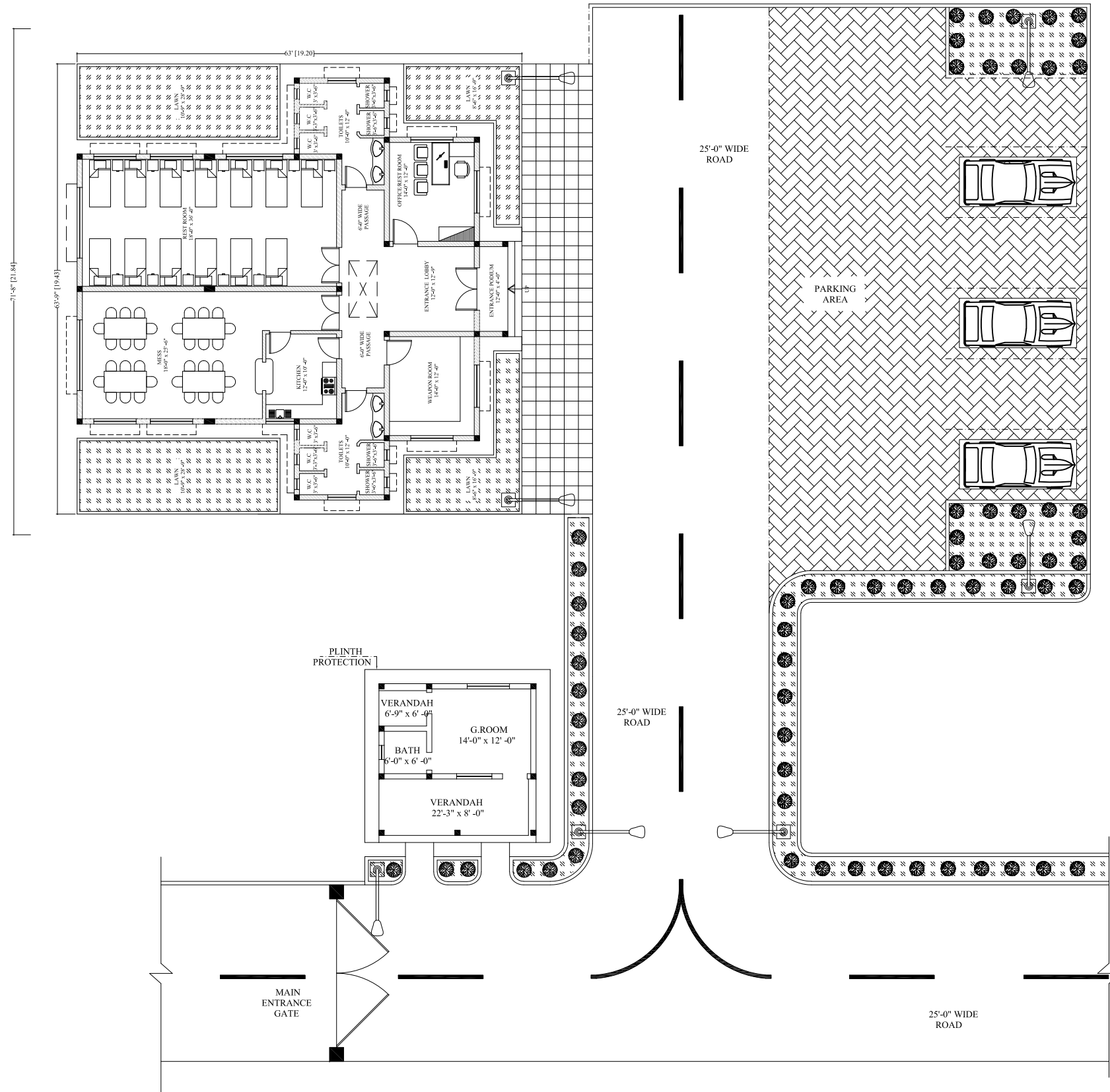
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**GENERAL NOTES**

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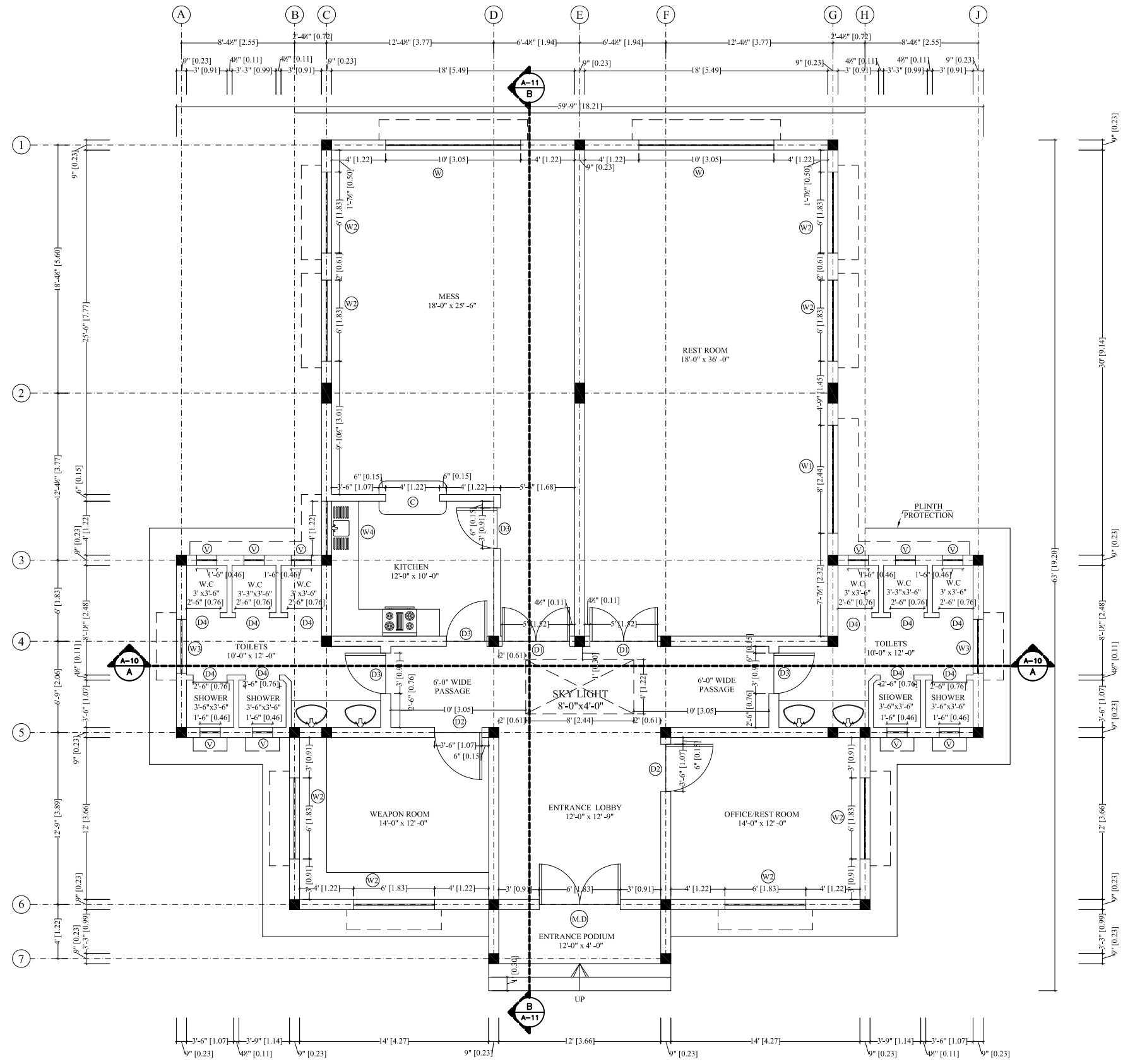
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF**  
**COMMAND AREA OF TANDA DAM, Dist. KOHAT**

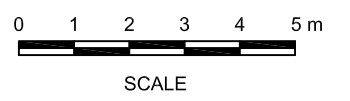
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**MASTER PLAN**

DRG.No:-	TND-3002	SHEET:-	02 OF 04	SCALE	DATE
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DOORS WINDOWS SCHEDULE GROUND FLOOR				
S.NO	TYPE	SIZE	SILL	NO
01	M-D	6'-0"x7'-6"	0'-0"	01
02	D1	5'-0"x7'-0"	0'-0"	02
03	D2	3'-6"x7'-0"	0'-0"	02
04	D3	3'-0"x7'-0"	0'-0"	04
05	D4	2'-6"x7'-0"	0'-0"	10
TOTAL DOORS				19
06	W	10'-0"x5'-6"	2'-0"	02
07	W1	8'-0"x5'-6"	3'-0"	01
08	W2	6'-0"x5'-6"	3'-0"	08
09	W3	4'-0"x5'-6"	3'-0"	02
10	W4	4'-0"x4'-6"	2'-0"	01
11	COUNTER	6'-0"x4'-6"	2'-0"	01
12	V	1'-6"x1'-6"	6'-0"	10
13	V1	7'-0"x2'-0"	0'-6"	04
TOTAL WINDOWS				29



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

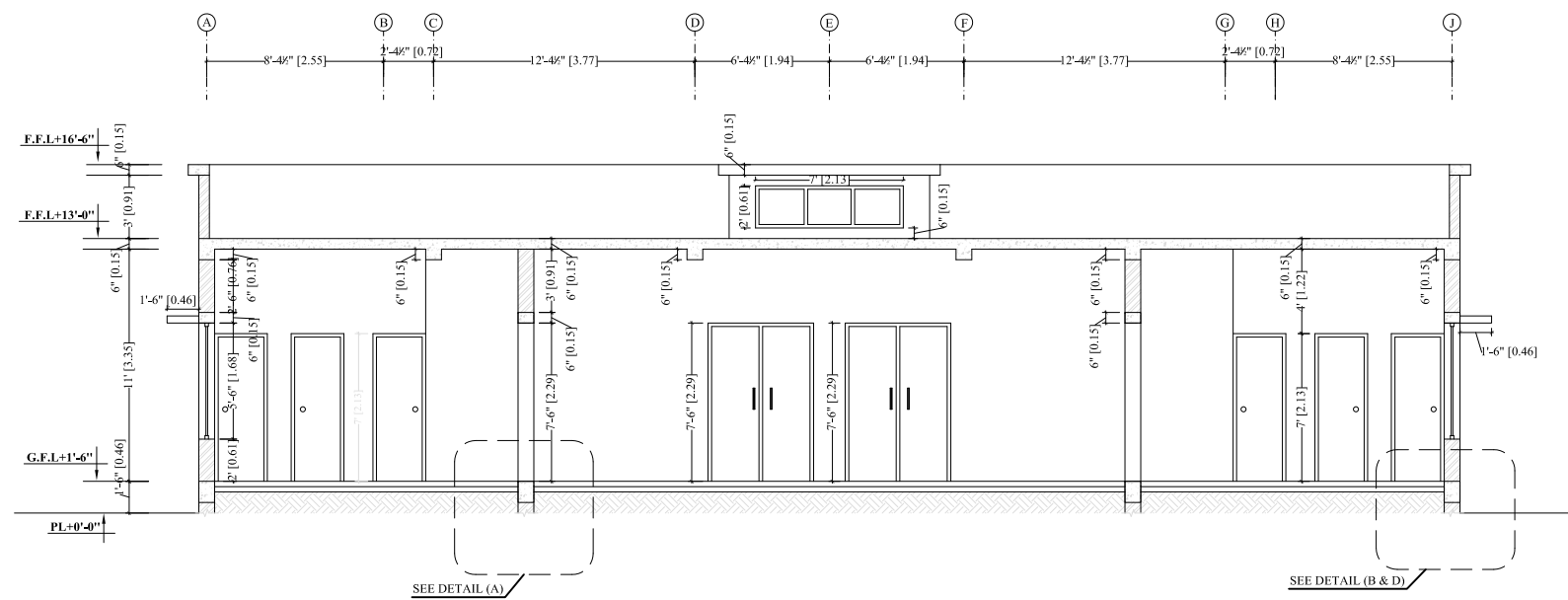
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INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

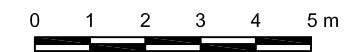
TITLE:  
**SECURITY STAFF  
BARRACKS GROUND  
FLOOR PLAN**

DRG.No:-	TND-3003	SHEET:-	03 OF 04	SCALE	DATE
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**SECTION - AA**






SCALE

**TENDER DRAWING**

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 KHYBER PAKHTUNKHWA

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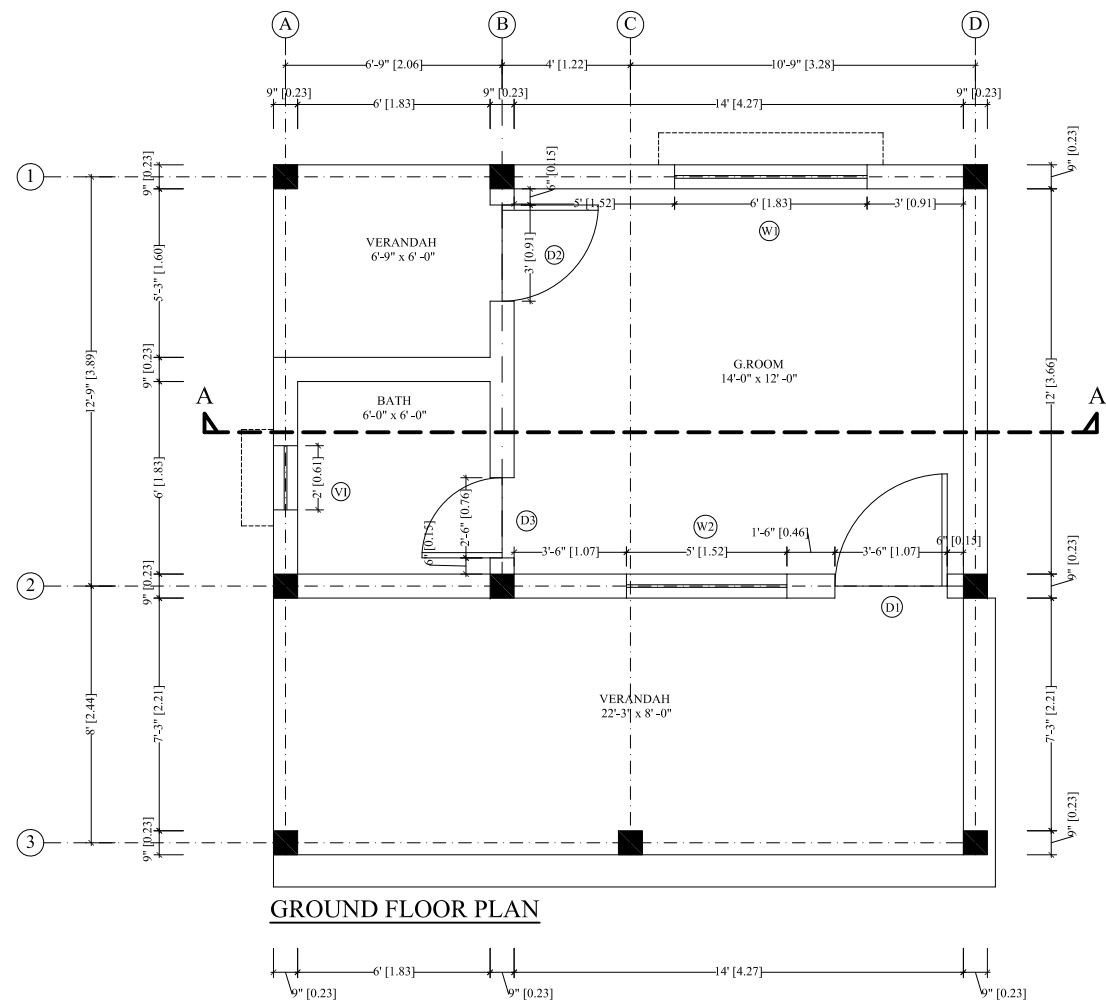
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 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

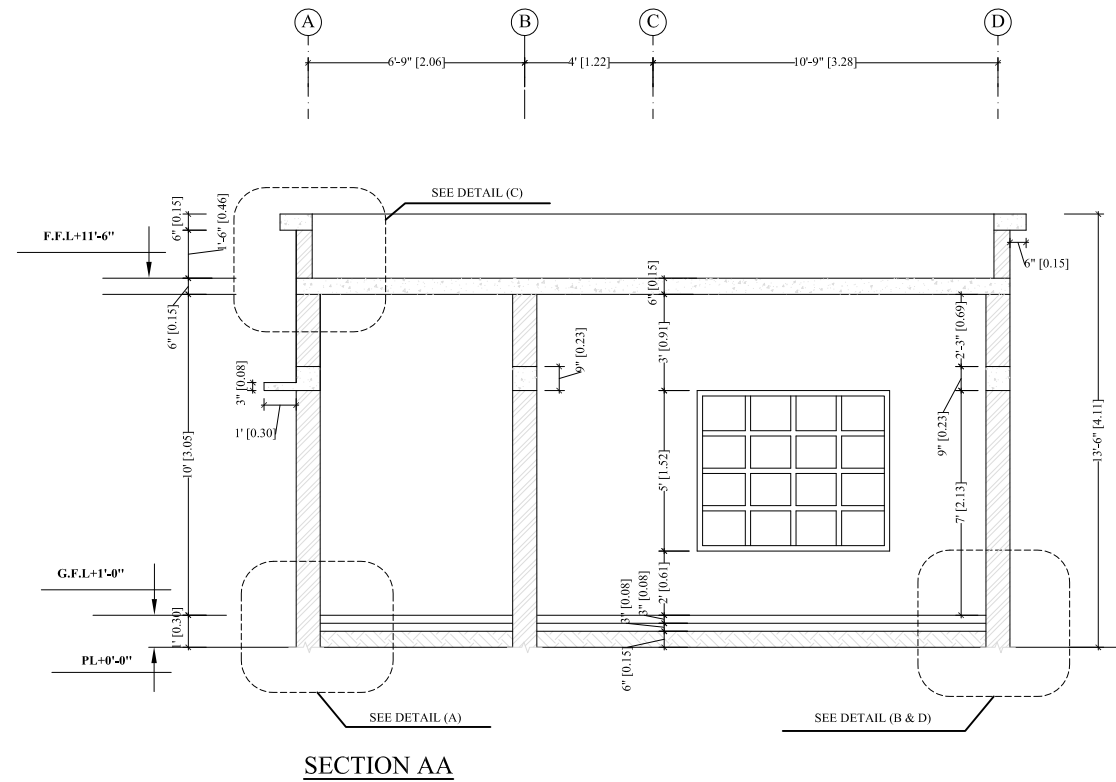
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**SECTION - AA**

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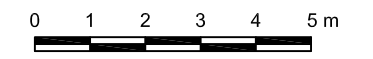
**GROUND FLOOR PLAN**



**SECTION AA**

**DOORS WINDOWS SCHEDULE OF GUARD ROOM**

S.NO	TYPE	SIZE	SILL	NO
01	D1	3'-6"x7'-0"	0'-0"	01
02	D2	3'-0"x7'-0"	0'-0"	01
03	D3	2'-6"x7'-0"	0'-0"	01
TOTAL DOORS				03
04	W1	6'-0"x5'-0"	2'-0"	01
05	W2	5'-0"x5'-0"	2'-0"	01
06	V1	2'-0"x1'-6"	5'-6"	01
TOTAL WINDOWS				03



SCALE

**TENDER DRAWING**

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KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**  
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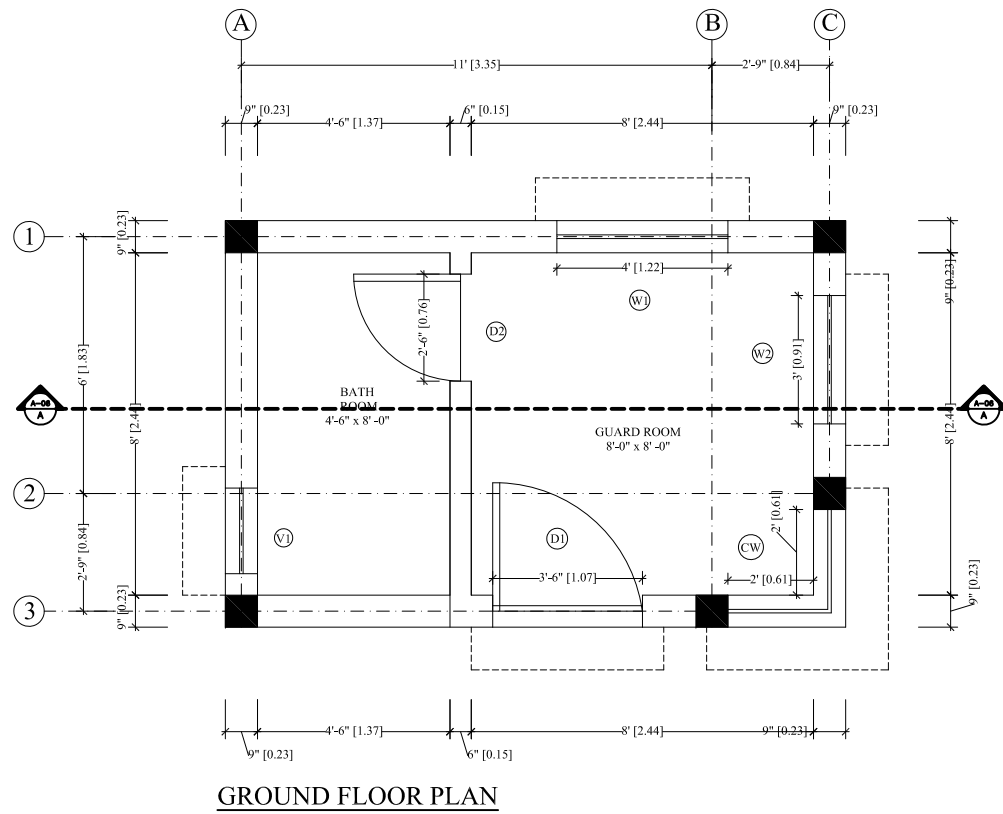
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**INCREASING STORAGE AND IMPROVEMENT OF**  
**COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**SECTION - AA**

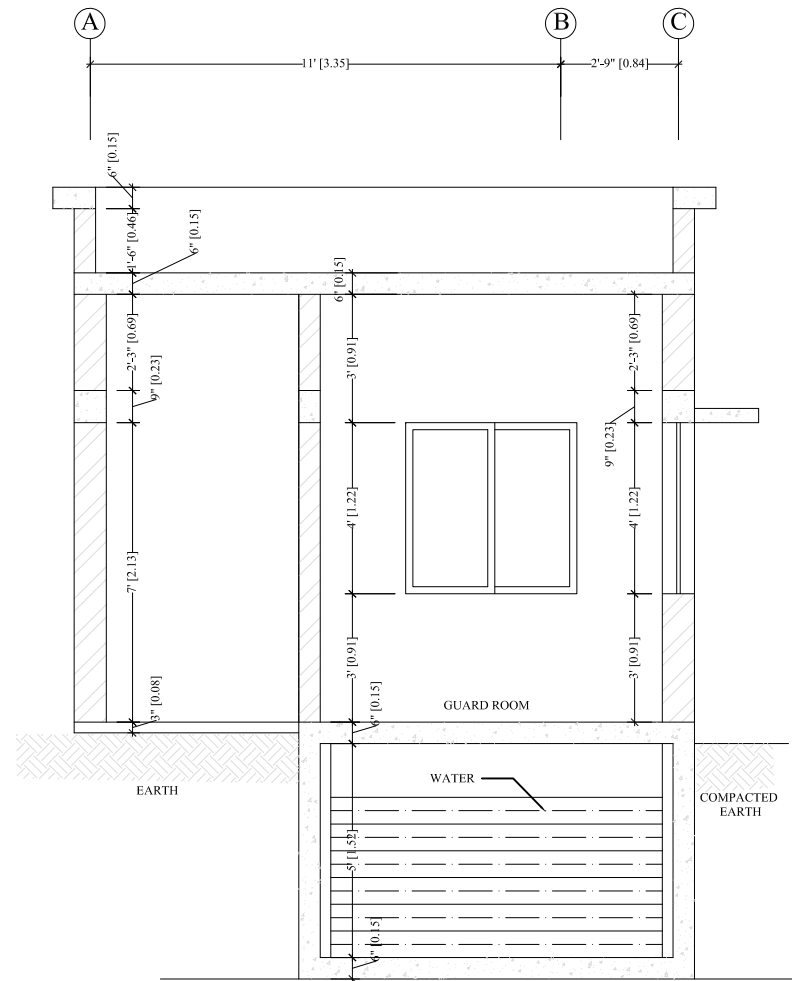
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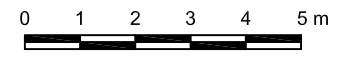


**GROUND FLOOR PLAN**



**SECTION- AA**

DOORS WINDOWS SCHEDULE GROUND FLOOR				
S.NO	TYPE	SIZE	SILL	NO
01	D1	3'-6" x 7'-0"	0'-0"	01
02	D2	2'-6" x 7'-0"	0'-0"	01
TOTAL DOORS				02
03	W1	4'-0" x 5'-0"	3'-0"	01
04	W2	3'-0" x 5'-0"	3'-0"	01
05	CW	4'-0" x 5'-0"	3'-0"	01
06	V1	3'-0" x 4'-0"	3'-0"	01
TOTAL WINDOWS				04



SCALE

**TENDER DRAWING**

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT KHYBER PAKHTUNKHWA**

FS CONSULTANTS: **CAMEOS** **RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.

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PROJECT: **CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT**

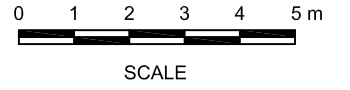
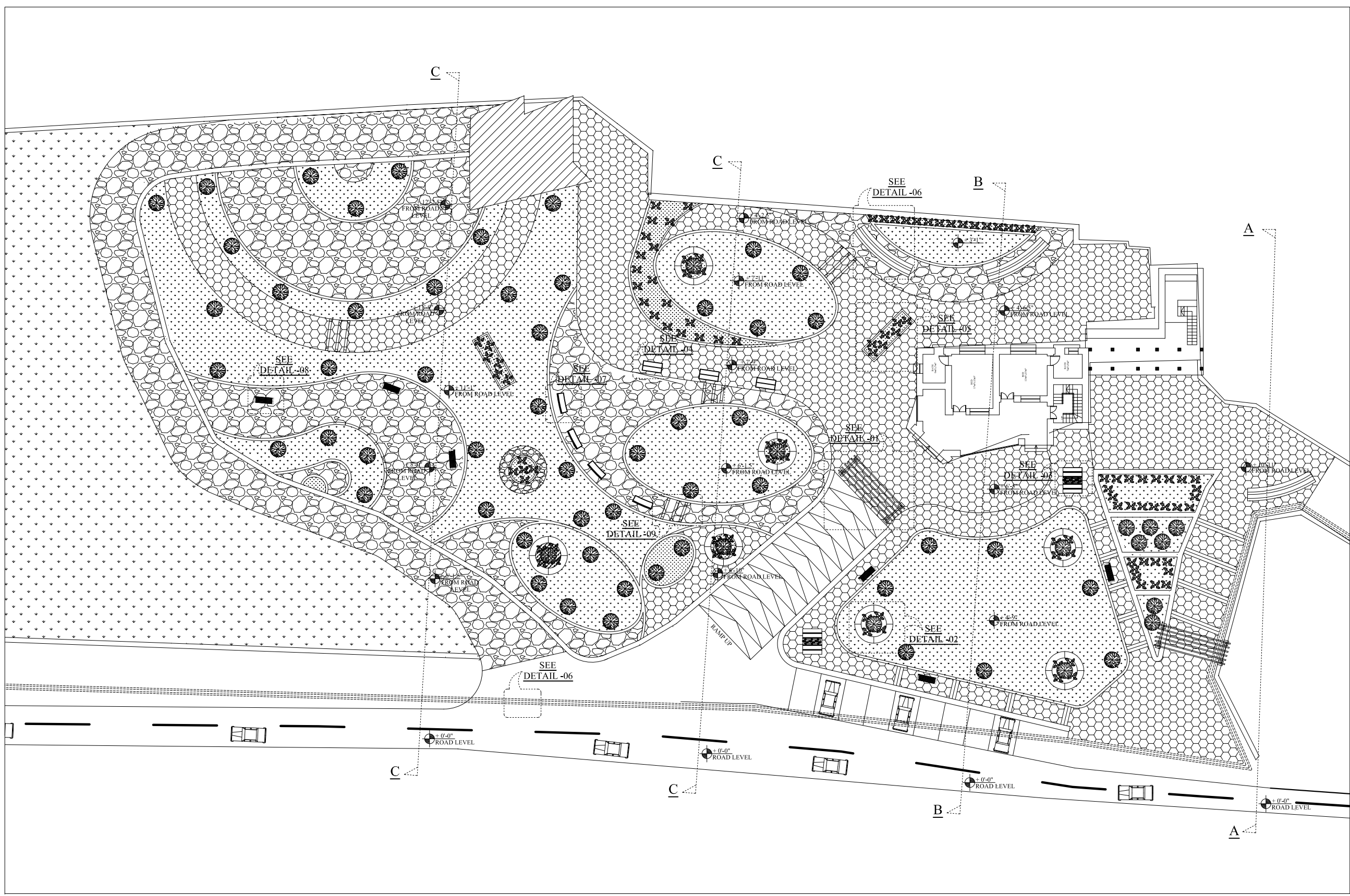
TITLE: **GROUND PLAN AND SECTION - AA AND DOOR/WINDOW SCHEDULE PLAN**

SCALE	DATE
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DRG.No:- TND-3201 SHEET:- 01 OF 01 SUB SH.-



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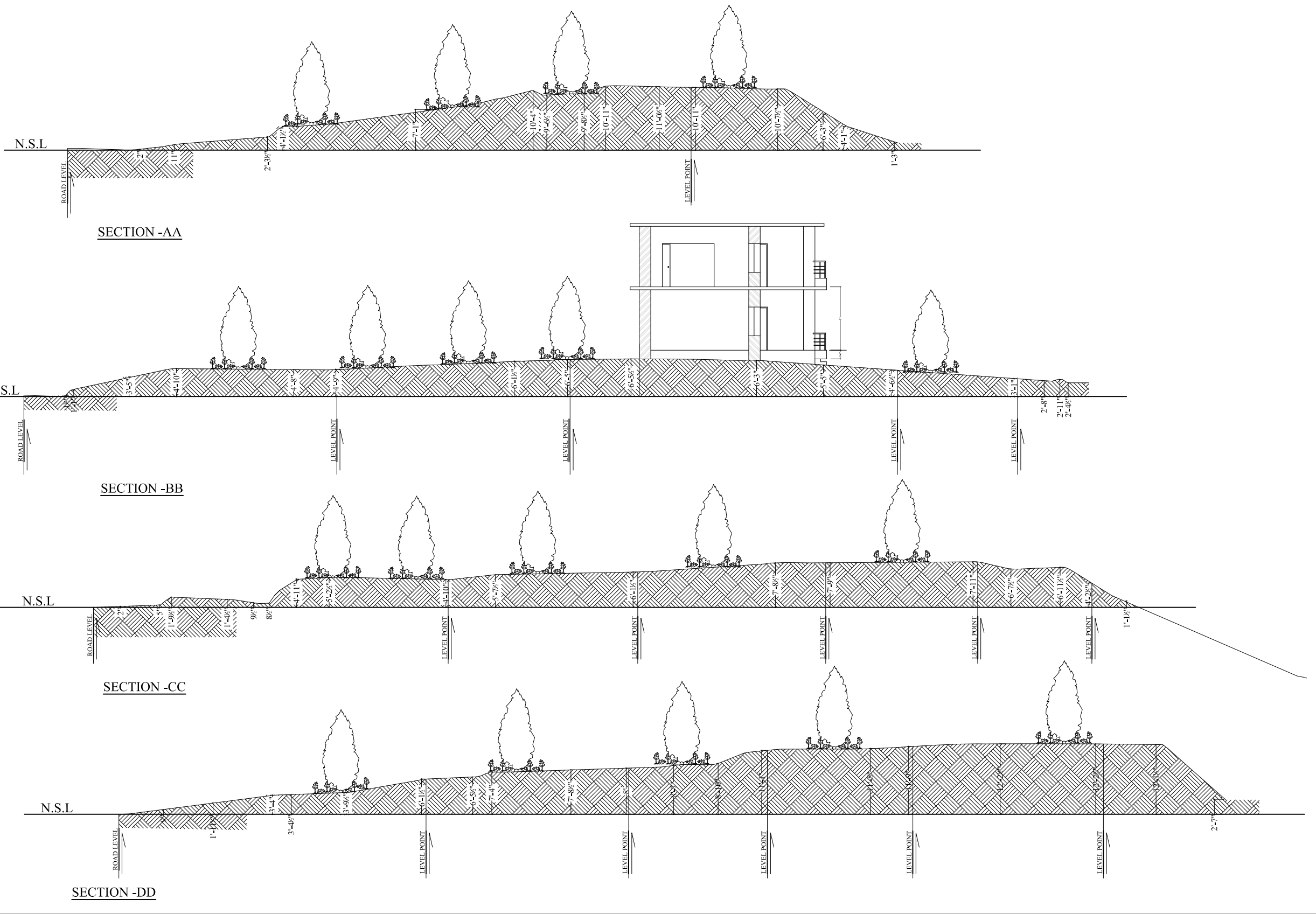
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PROJECT: CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT


TITLE: LANDSCAPING PLAN


DRG.No:- TND-3301	SHEET:- 01 OF 02	SCALE: Shown	DATE: JANUARY / 2011
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 KOHAT IRRIGATION DIVISION KOHAT  
 KHYBER PAKHTUNKHWA

FS CONSULTANTS:  
 CAMEOS

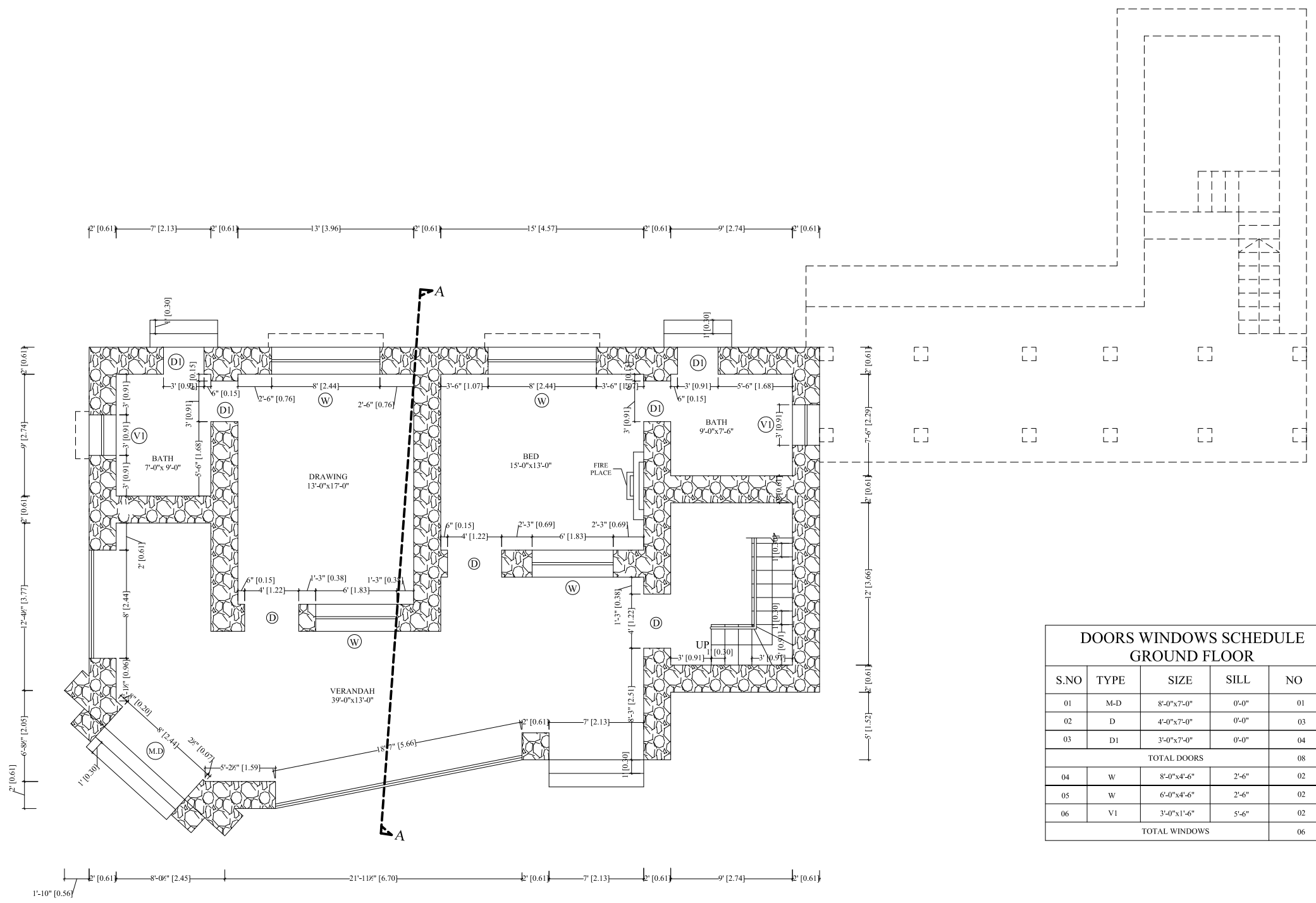
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**SECTIONS**

SCALE	DATE
Shown	JANUARY / 2011
DRG.No:- TND-3302	SHEET:- 02 OF 02
	SUB SH.-

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DOORS WINDOWS SCHEDULE GROUND FLOOR				
S.NO	TYPE	SIZE	SILL	NO
01	M-D	8'-0" x 7'-0"	0'-0"	01
02	D	4'-0" x 7'-0"	0'-0"	03
03	D1	3'-0" x 7'-0"	0'-0"	04
TOTAL DOORS				08
04	W	8'-0" x 4'-6"	2'-6"	02
05	W	6'-0" x 4'-6"	2'-6"	02
06	V1	3'-0" x 1'-6"	5'-6"	02
TOTAL WINDOWS				06



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

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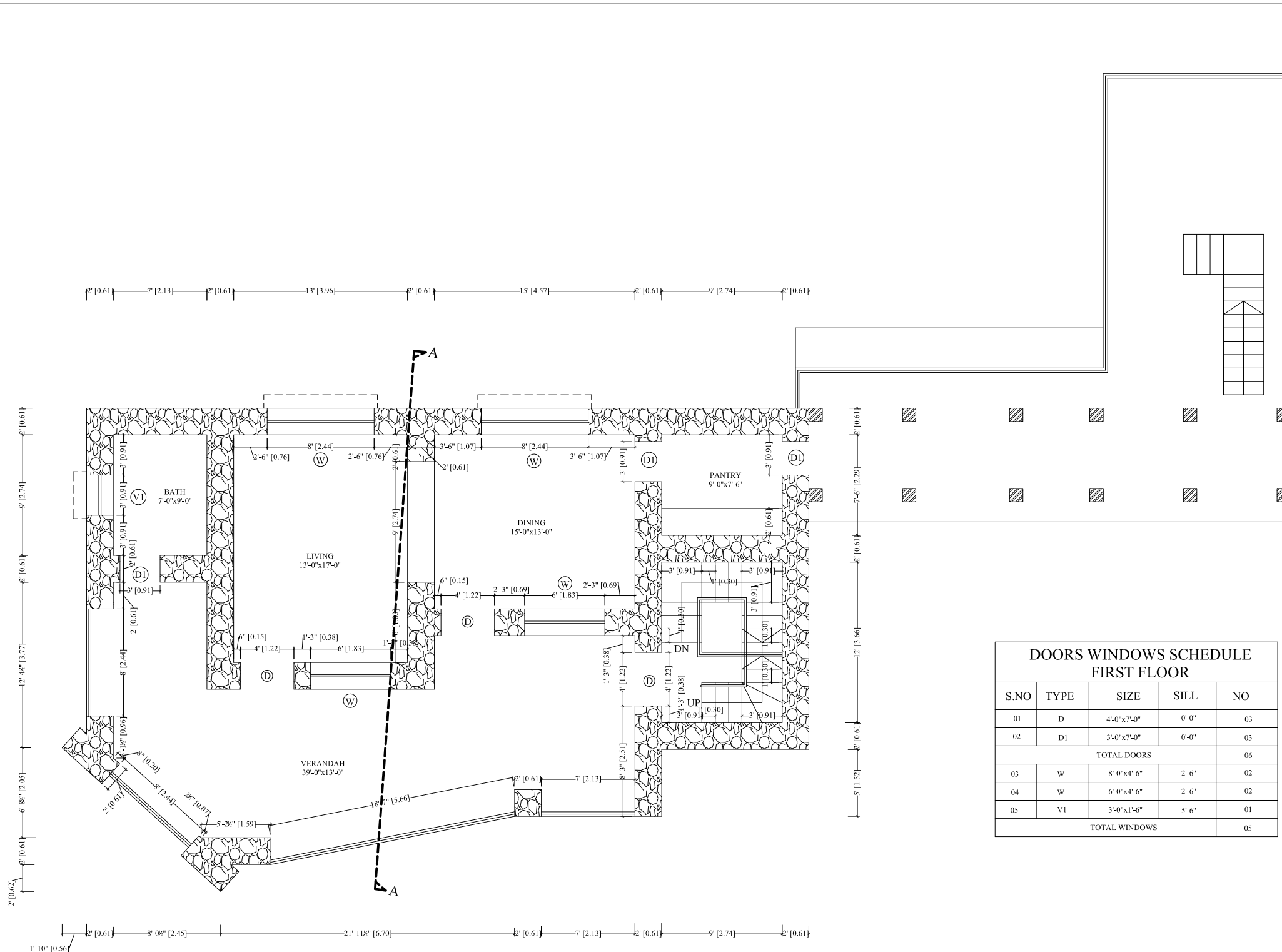
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR INCREASING STORAGE AND IMPROVEMENT OF COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**REST HOUSE  
GROUND FLOOR  
PLAN**

SCALE	DATE
Shown	JANUARY / 2011

DRG.No:- TND-3401 SHEET:- 01 OF 03 SUB SH.-

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DOORS WINDOWS SCHEDULE				
FIRST FLOOR				
S.NO	TYPE	SIZE	SILL	NO
01	D	4'-0" x 7'-0"	0'-0"	03
02	D1	3'-0" x 7'-0"	0'-0"	03
TOTAL DOORS				06
03	W	8'-0" x 4'-6"	2'-6"	02
04	W	6'-0" x 4'-6"	2'-6"	02
05	V1	3'-0" x 1'-6"	5'-6"	01
TOTAL WINDOWS				05



TENDER DRAWING

CLIENT: KOHAT IRRIGATION DIVISION KOHAT  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**  
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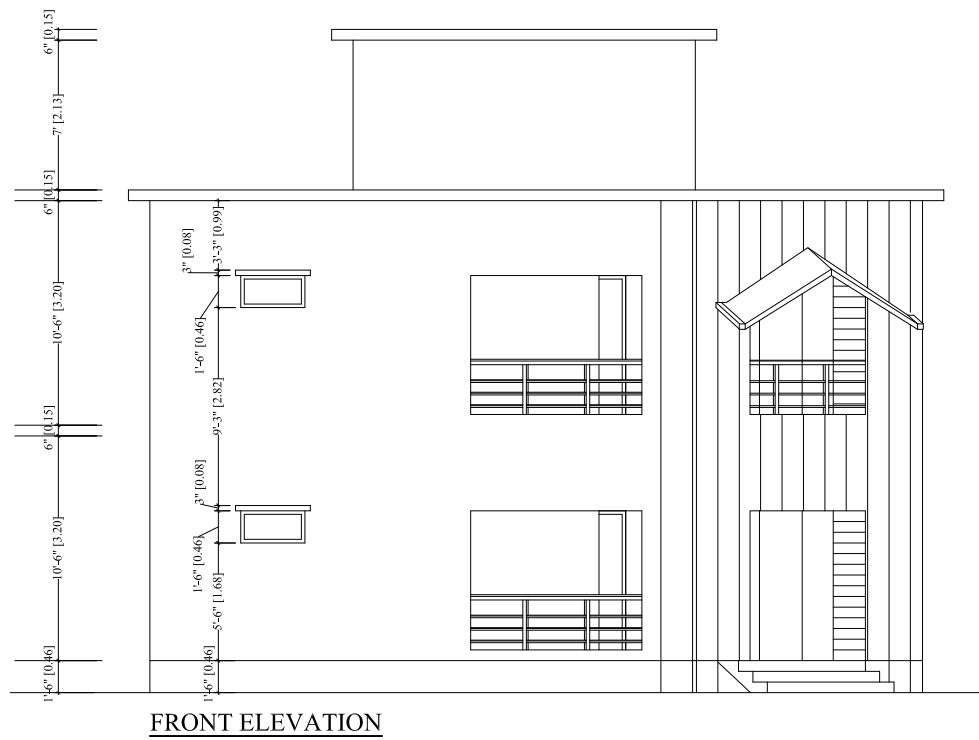
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**FIRST FLOOR PLAN**

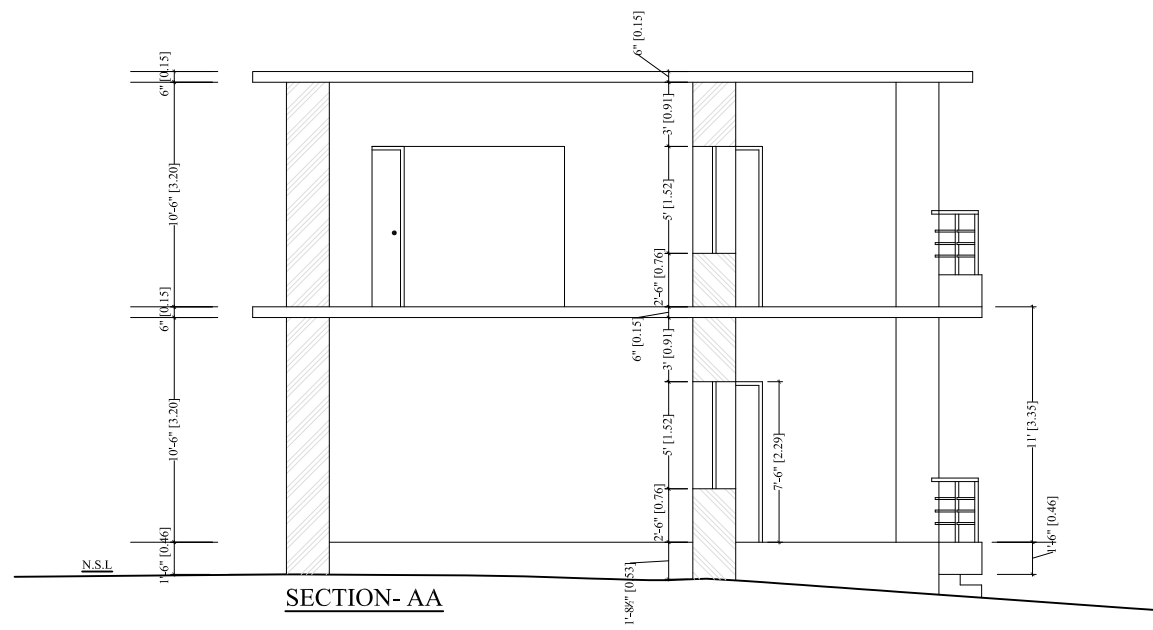
SCALE	DATE
Shown	JANUARY / 2011

DRG.No:- TND-3402 SHEET:- 02 OF 03 SUB SH.-

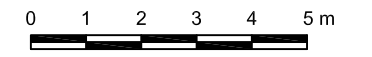
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**FRONT ELEVATION**




**SECTION- AA**






SCALE

**TENDER DRAWING**

CLIENT:  **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS:  **CAMEOS**

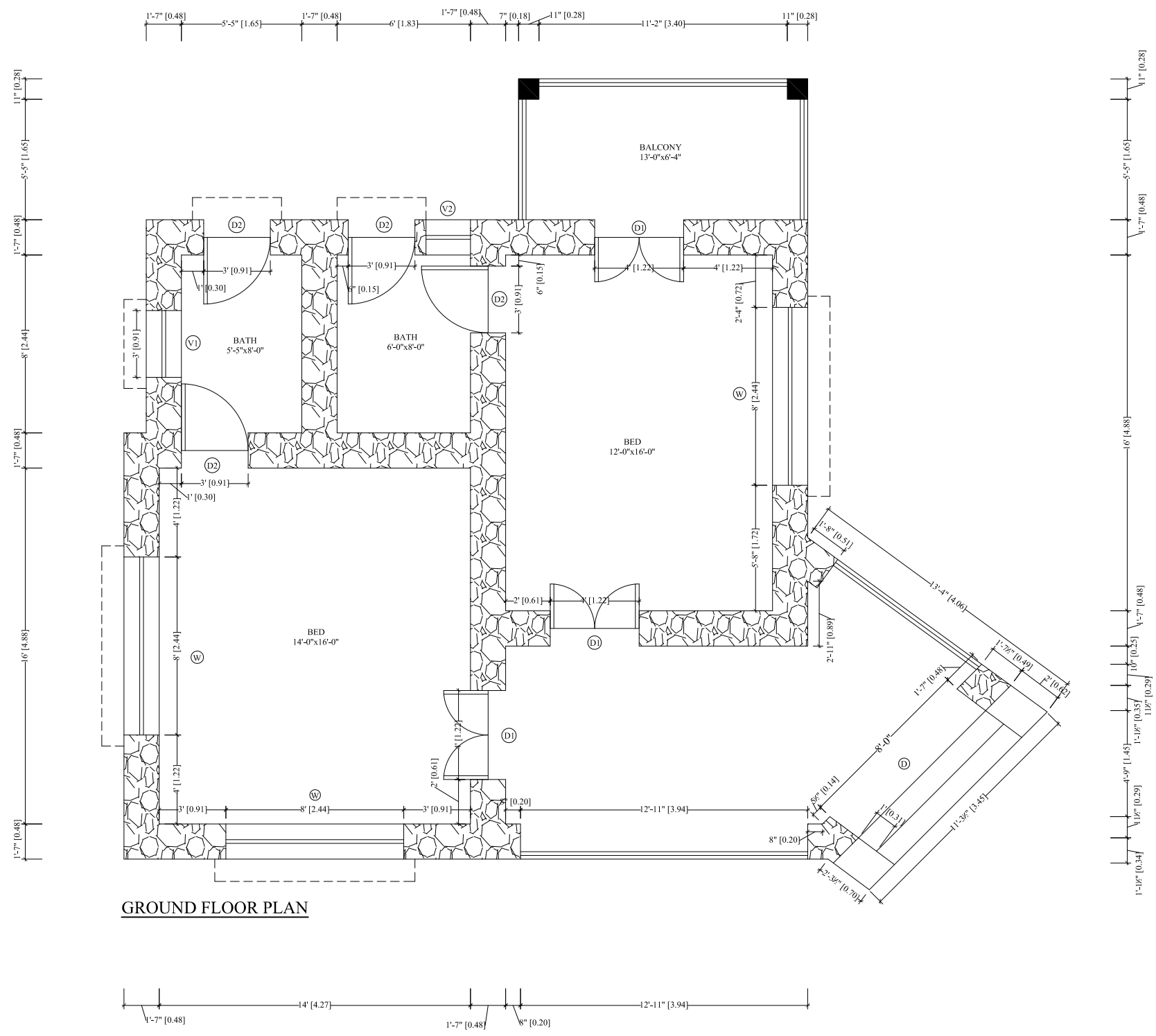
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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
**FRONT ELEVATION  
AND SECTION**

DRG.No:-	TND-3403	SHEET:-	03 OF 03	SCALE	DATE
				Shown	JANUARY / 2011

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**GROUND FLOOR PLAN**

DOORS WINDOWS SCHEDULE GROUND FLOOR				
S.NO	TYPE	SIZE	SILL	NO
01	D	8'-0"x7'-0"	0'-0"	01
02	D1	4'-0"x7'-0"	0'-0"	03
03	D2	3'-0"x7'-0"	0'-0"	04
TOTAL DOORS				08
04	W	8'-0"x4'-6"	2'-6"	03
05	V1	3'-0"x1'-6"	5'-6"	01
06	V2	2'-0"x1'-6"	5'-6"	01
TOTAL WINDOWS				05



TENDER DRAWING

CLIENT: **KOHAT IRRIGATION DIVISION KOHAT**  
KHYBER PAKHTUNKHWA

FS CONSULTANTS: **CAMEOS**

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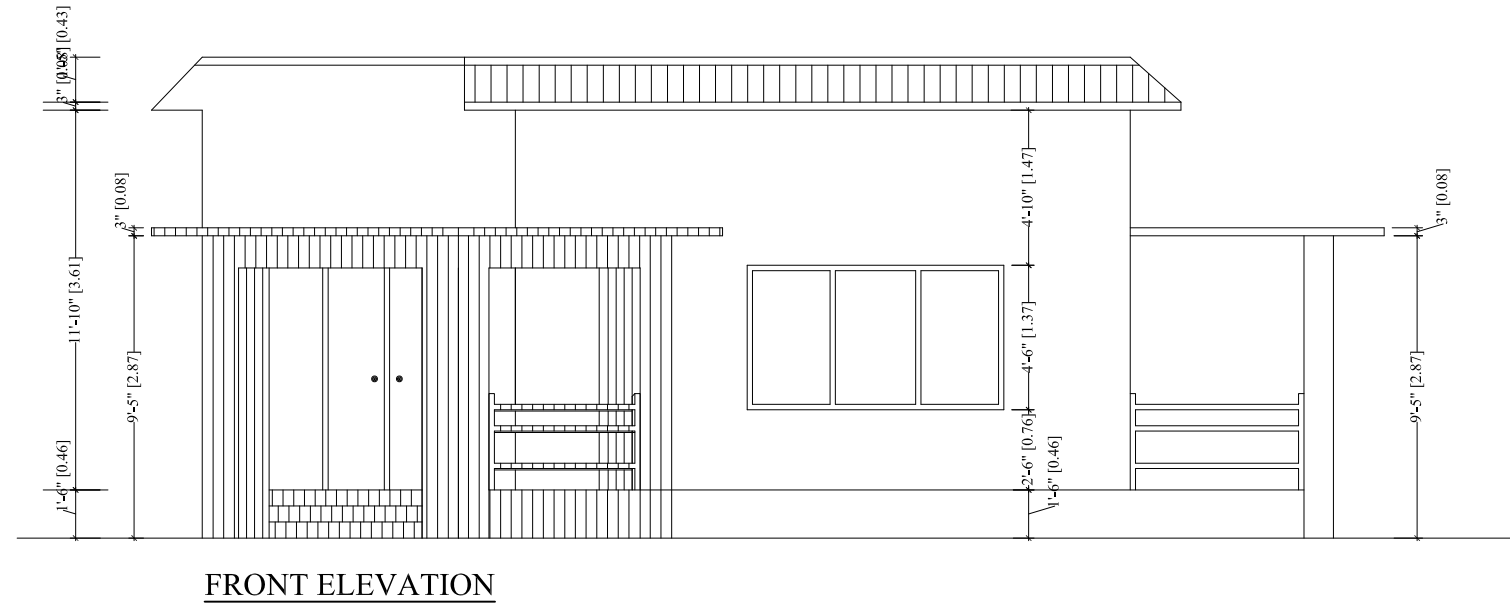
PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
**INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT**

TITLE:  
**ANNEXE  
GROUND FLOOR  
PLAN**

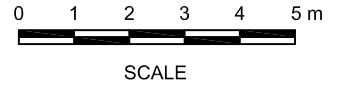
SCALE	DATE
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**FRONT ELEVATION**



**TENDER DRAWING**

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KHYBER PAKHTUNKHWA

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PROJECT:  
CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
INCREASING STORAGE AND IMPROVEMENT OF  
COMMAND AREA OF TANDA DAM, Dist. KOHAT

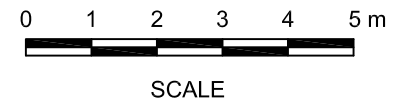
TITLE:  
**FRONT ELEVATION**

SCALE	DATE
Shown	JANUARY / 2011



ADD.C - 167

LEGEND	
CHACK BANDI	
HILLS	
CENTERLINE	
POND	
RIVER	
ROAD	
NALA	



TENDER DRAWING

CLIENT:  
 KOHAT IRRIGATION DIVISION KOHAT  
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PROJECT:  
 CONSULTANCY SERVICES FOR THE DESIGN & CONSTRUCTION SUPERVISION FOR  
 INCREASING STORAGE AND IMPROVEMENT OF  
 COMMAND AREA OF TANDA DAM, Dist. KOHAT

TITLE:  
 REVISED CHACK BANDI LAYOUT  
 PLAN

SCALE	DATE
Shown	JANUARY 2021

DRG.No:- TND-3601 SHEET:- 01 OF 1 SUB SH:- ----