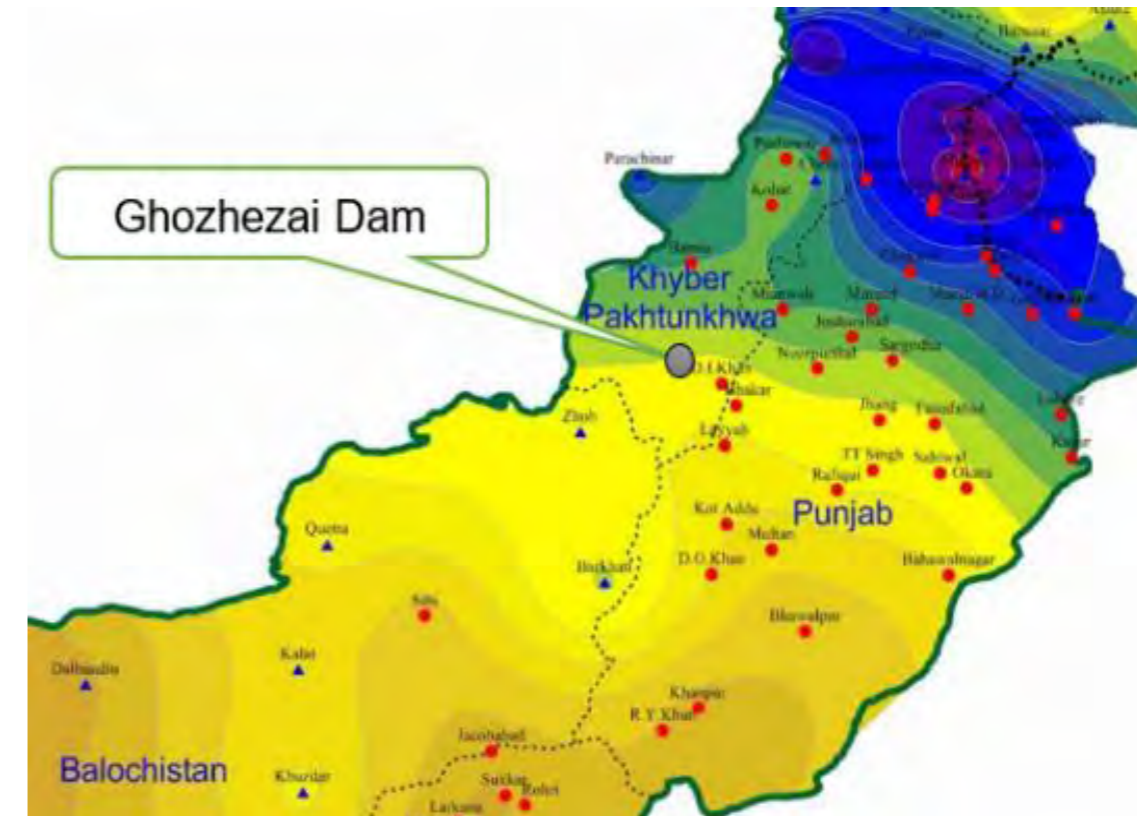
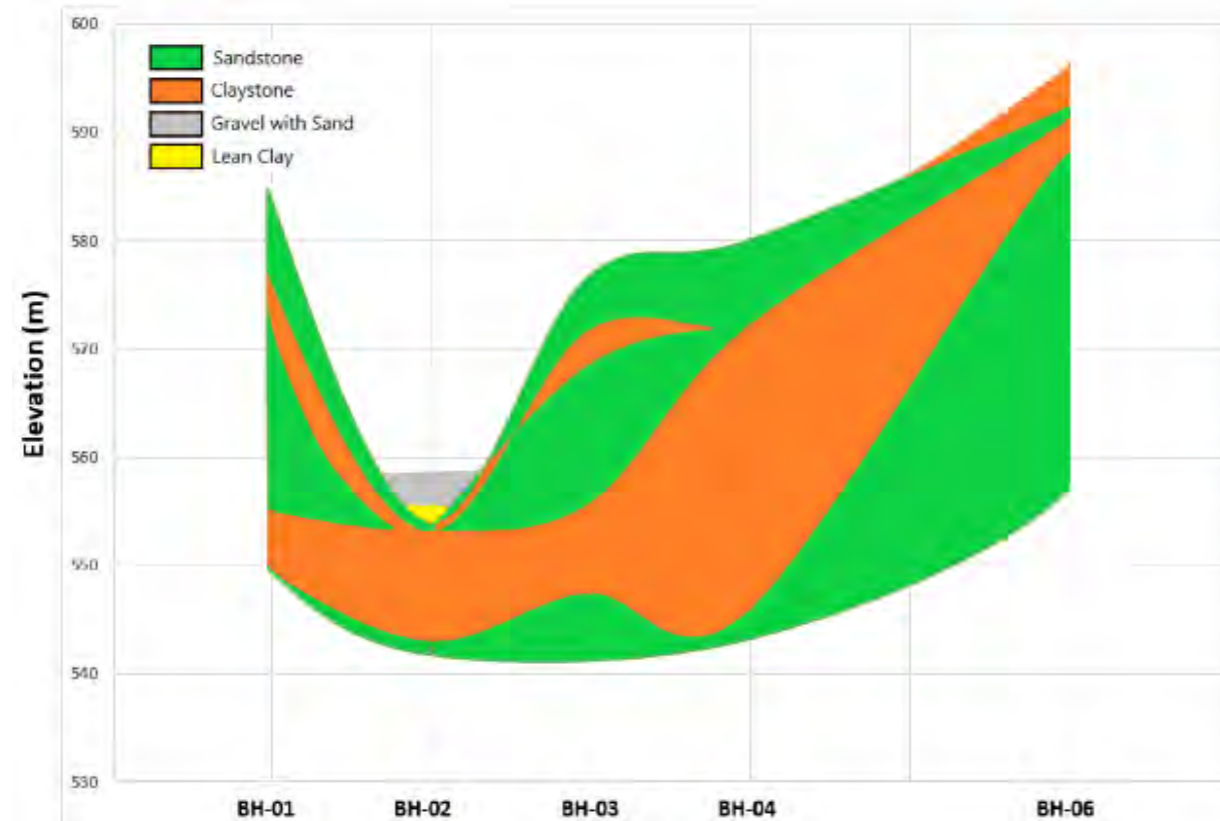


GOVERNMENT OF KHYBER PAKHTUNKHWA
DEPARTMENT OF IRRIGATION
SMALL DAMS SECTION MERGED AREA



CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAILED ENGINEERING DESIGN AND PREPARATION OF PC-1 FOR 05 SMALL DAMS IN MERGED AREA (PACKAGE-X)



BIDDING DRAWINGS
GHOZHEZAI DAM (Tribal Sub Division Tank)
DECEMBER-2021
Volume -II (Drawings)



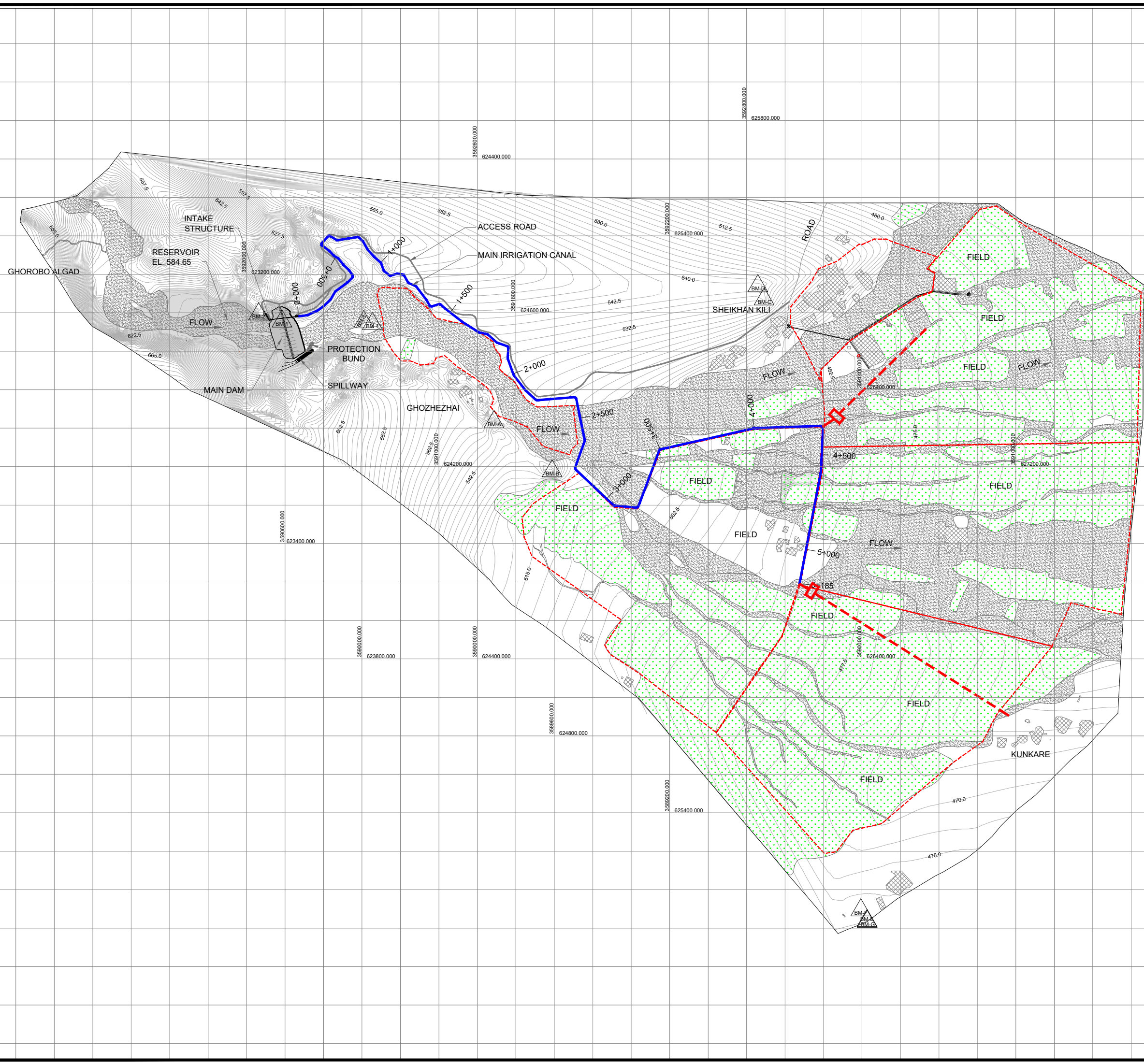
GHOZHEZAI DAM

Sr No	Drawing Name	No of Drawings	Drawing	Sr No	Drawing Name	No of Drawings	Drawing
General				Irrigation System			
1	General Layout Plan	1	GHD-FS-GEN-01	22	Irrigation Layout Plan	1	GHD-FS-IR-01
2	Topographic Survey Plan	1	GHD-FS-GEN-02	23	Main Canal Plan and Profile	6	GHD-FS-IR-02
3	Reservior Area Plan	1	GHD-FS-GEN-03	24	ChakBandi layout Plan	1	GHD-FS-IR-03
4	Surface Geological Map	1	GHD-FS-GEN-04	25	Irrigation canal Typical Sections	2	GHD-FS-IR-04
5	Bore Hole location Plan	1	GHD-FS-GEN-05	26	Syphon Plan and Profile	5	GHD-FS-IR-05
Dam				27	Typical fall structure	1	GHD-FS-IR-06
6	Main Dam Layout Plan	1	GHD-FS-MD-01	28	Drainage Culvert	1	GHD-FS-IR-07
7	Main Dam Typical Cross Section	1	GHD-FS-MD-02	29	Road Culvert	1	GHD-FS-IR-08
8	Main Dam Profile	1	GHD-FS-MD-03	30	Typical Pipe Culvert	1	GHD-FS-IR-09
9	Dam Cross Sections	15	GHD-FS-MD-04	Water Supply			
10	Main Dam Grouting Plan & Profile	2	GHD-FS-MD-05	31	Water supply Layout Plan & Surface Water Tank Detail	1	GHD-FS-WS-01
Spillway				32	Surface Water Tank	1	GHD-FS-WS-02
11	Spillway Layout Plan	1	GHD-FS-SP-01	33	Water Filtration Tank	1	GHD-FS-WS-03
12	Spillway Plan and Profile	1	GHD-FS-SP-02	34	Inspection Hut Plan	1	GHD-FS-IH-01
13	Spillway Details	1	GHD-FS-SP-03	Road			
14	Spillway Cross Sections	10	GHD-FS-SP-04	35	Dam Top Access Road Plan & Profile	6	GHD-FS-RD-01
15	Protection Bund Sections	1	GHD-FS-SP-05	36	Dam Top Access Road Setting Out Data	1	GHD-FS-RD-02
16	Spillway Joints Detail	1	GHD-FS-SP-06	37	Outlet Access Road Plan & Profile	1	GHD-FS-RD-03
Inlet & Outlet Structures				38	Outlet Access Road Setting Out Data	1	GHD-FS-RD-04
17	Intake Tower Plan	1	GHD-FS-IT-01	39	Dam Access Road Cross Sections	22	GHD-FS-RD-05
18	Intake Tower Front View & Sections	2	GHD-FS-IT-02	40	Outlet Access Road Cross Sections	3	GHD-FS-RD-06
19	Outlet Structure Sections	1	GHD-FS-IT-03				
20	Intake Tower Plan & Profile	1	GHD-FS-IC-04				
21	Intake Tower Cross Sections	7	GHD-FS-IC-05				

No of Sheets: 109



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NOTES:-

- ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

- MAIN CANAL ———
- ACCESS ROAD ———
- CHACKBANDI - - - - -
- CONTOUR MAJOR ——— 845
- CONTOUR MINOR ——— 847
- FIELD
- HOUSE
- EXISTING ROADS ———
- BENCH MARK ▲ BM-1
- WATER SUPPLY - - - - -

SCALE

REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

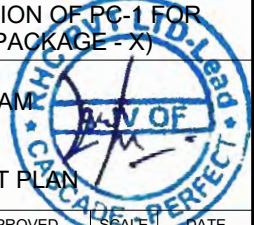
CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCAD CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM T.S.D TANK
GENERAL LAYOUT PLAN

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021
DRG.No:- GHD-BD-GEN-01 SHEET:-				SUB SH.- ----	

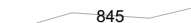
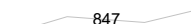
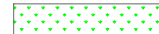
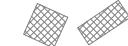



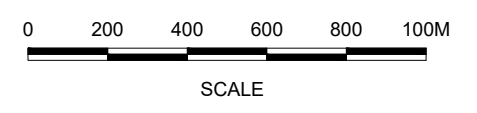
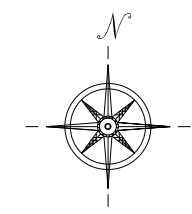
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NOTES:-
 1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

CONTOUR MAJOR		845
CONTOUR MINOR		847
FIELD		
HOUSE		
EXISTING ROADS		






REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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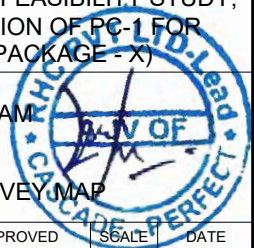
CLIENT:
 PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
 REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

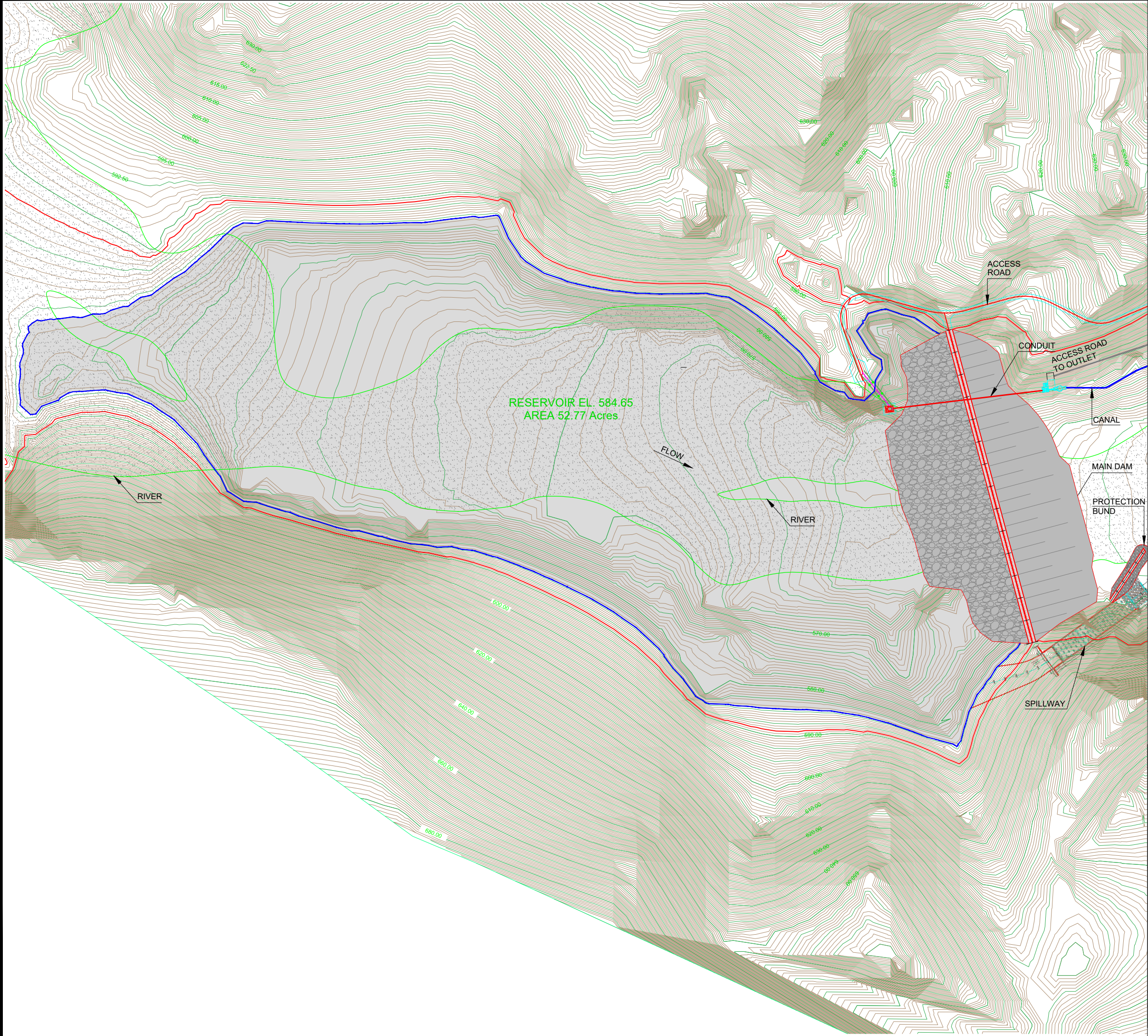
PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
 GHOZHEZHAI DAM
 T.S.D TANK
 TOPOGRAPHIC SURVEY MAP

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE	
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021	
DRG.No:- GHD-BD-GEN-02 SHEET:-					SUB SH.-	----



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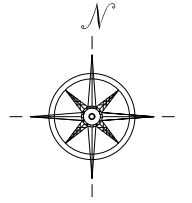


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

- ACCESS ROAD
- CANAL
- RESERVOIR
- DAM ELEVATION



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

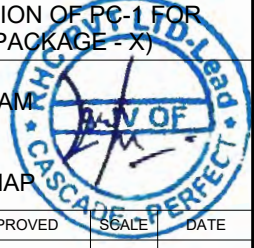
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

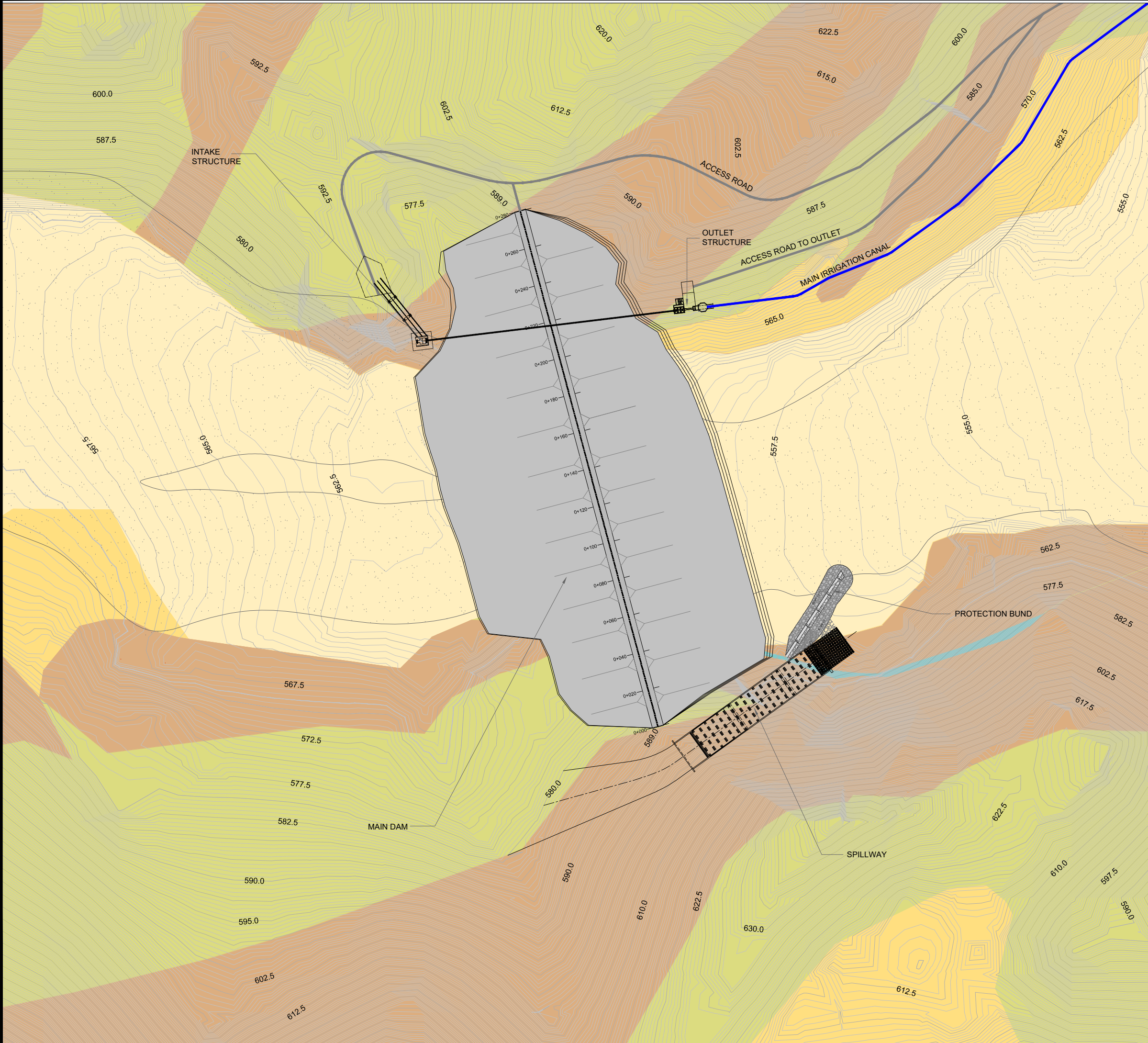
GHOZHEZAI DAM T.S.D TANK
 RESERVOIR MAP

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021

DRG.No:- GHD-BD-GEN-03 SHEET:- SUB SH.- ----



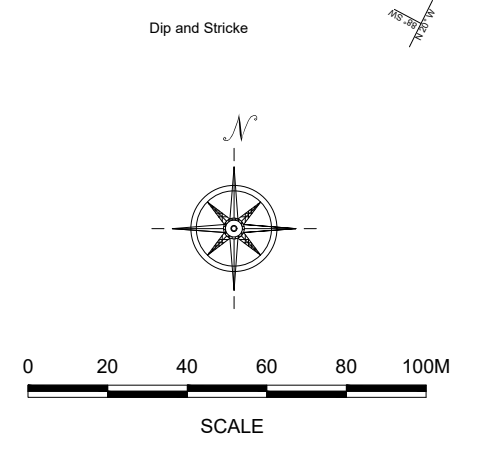
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NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

GEOLOGICAL LEGEND	
ROCKS Formations	Sandstone bed
	Mud stone / Clay stone Bed
	Conglomerate Bed (Sub Ordinate)
ALLUVIUM	SUBRECENT ALLUVIUM
	RECENT ALLUVIUM



REFERENCE DRAWINGS :-

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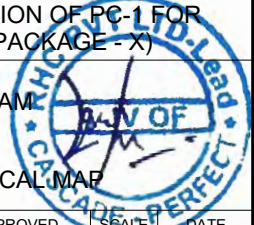
CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

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 CASCADE GROUP OF ENGINEERING & CONSULTANTS
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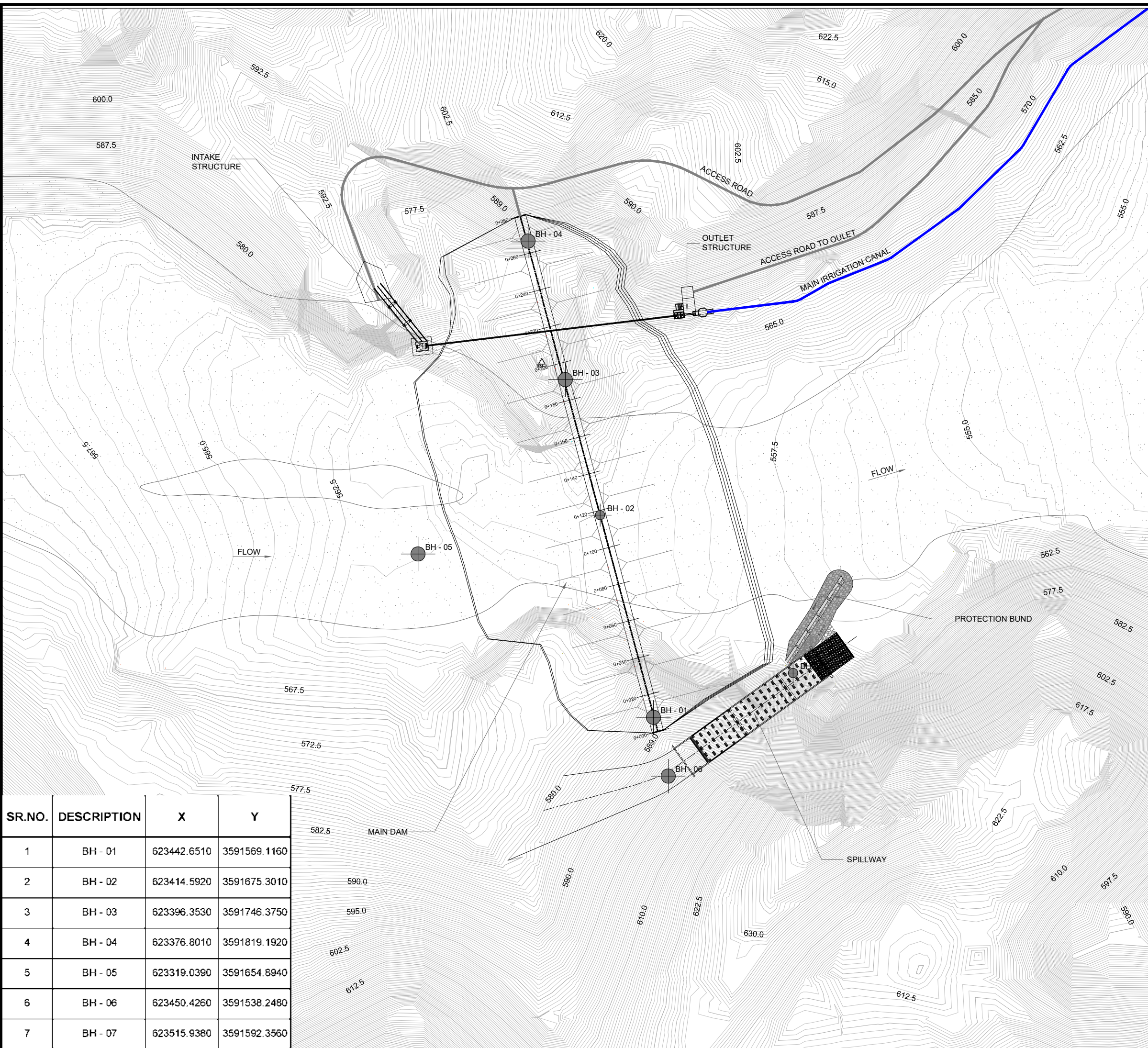
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM T.S.D TANK
SURFACE GEOLOGICAL MAP

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021
DRG.No:- GHD-BD-GEN-04 SHEET:-					SUB SH.-: ---



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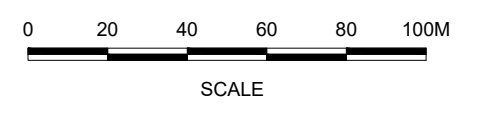
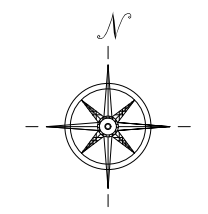


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

- MAIN CANAL
- ACCESS ROAD
- CHACKBANDI
- CONTOUR MAJOR 845
- CONTOUR MINOR 847
- FIELD
- HOUSE
- EXISTING ROADS
- BOREHOLE BH - 01



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

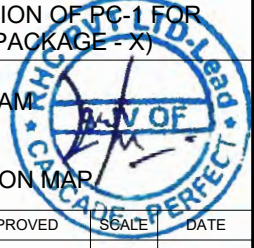
CONSULTANTS: A J.V OF
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

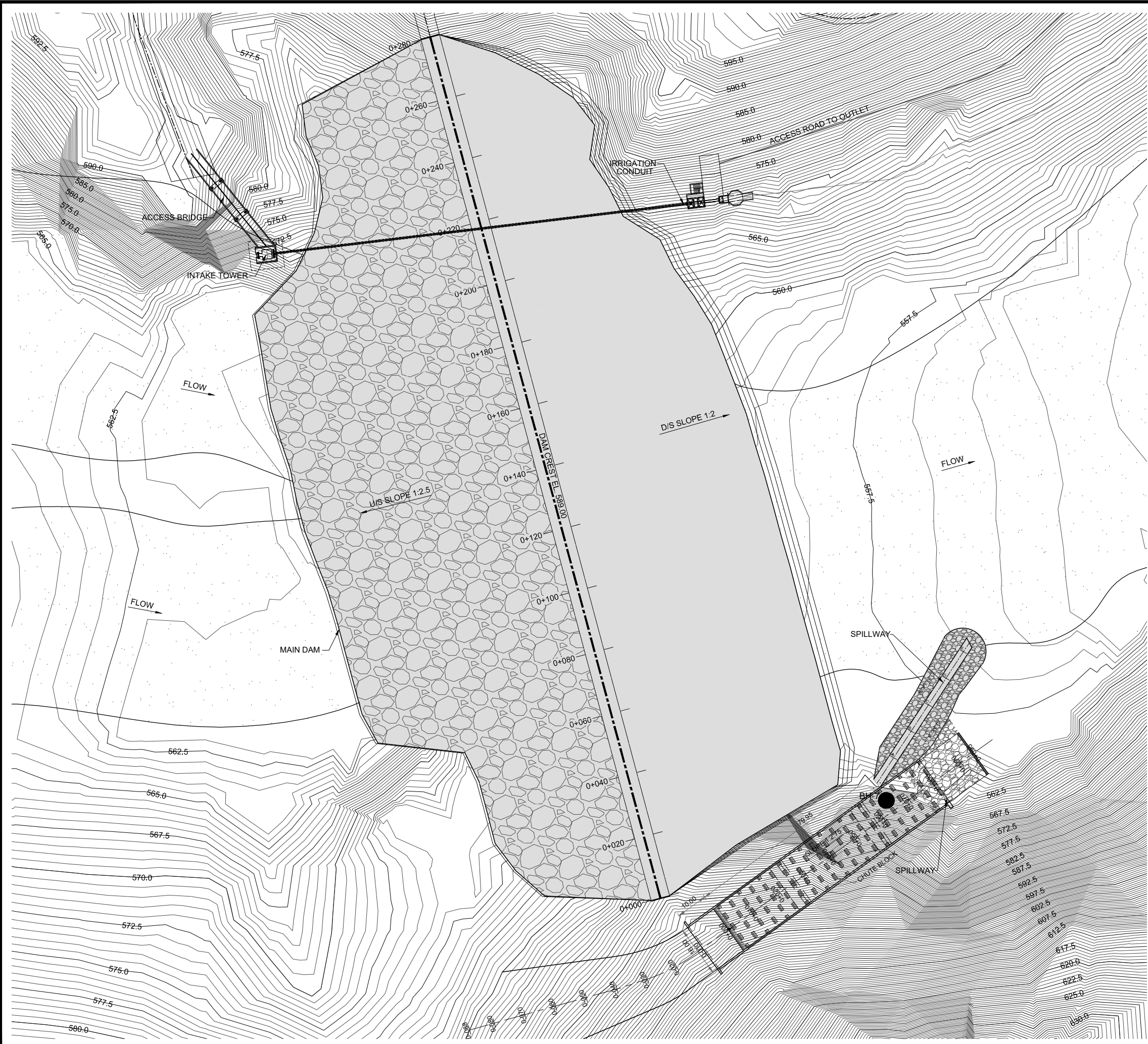
TITLE:
GHOZHEZAI DAM
T.S.D TANK
BOREHOLE LOCATION MAP

SR.NO.	DESCRIPTION	X	Y
1	BH - 01	623442.6510	3591569.1160
2	BH - 02	623414.5920	3591675.3010
3	BH - 03	623396.3530	3591746.3750
4	BH - 04	623376.8010	3591819.1920
5	BH - 05	623319.0390	3591654.8940
6	BH - 06	623450.4260	3591538.2480
7	BH - 07	623515.9380	3591592.3560

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021
DRG.No:- GHD-BD-GEN-05 SHEET:-					SUB SH.-: ----

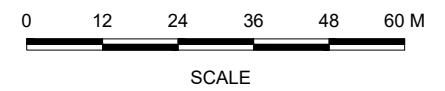
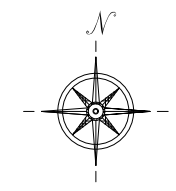


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NOTES:-

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REFERENCE DRAWINGS :-
 MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03
 MAIN DAM CROSS SECTION GHD-BD-MD-04
 DRAWING IS RELEASED

FOR BIDDING ONLY

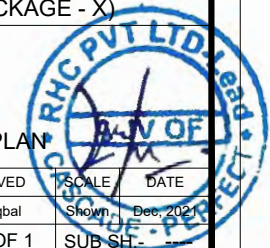
CLIENT:
 PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASC CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

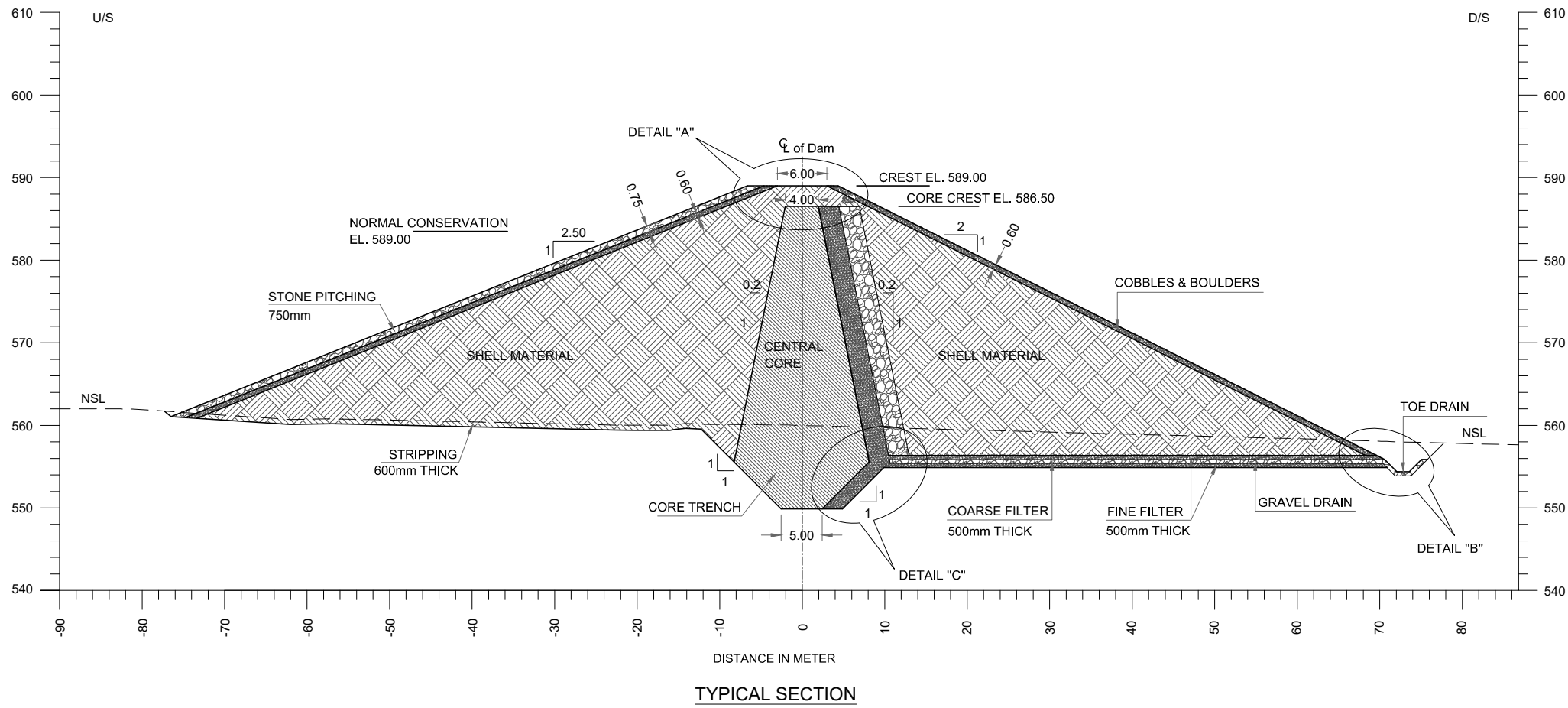
PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
 GHOZHEZAI DAM
 T.S.D TANK
 MAIN DAM LAYOUT PLAN

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:-	GHD-BD-MD-01	SHEET:-	1 OF 1	SUB SH.	

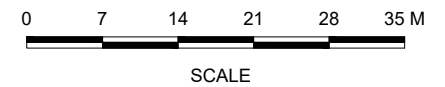


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NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
2. EARTHFILL TO BE COMPACTED AT 95% OF MAXIMUM DRY DENSITY DETERMINED THROUGH MODIFIED AASHTO COMPACTION T180.
3. THE GRADATION CURVE FOR COMPACTED EARTHFILL WILL BE PREPARED ON THE BASIS OF LABORATORY TEST RESULTS OBTAINED FROM TEST PITS OF BORROW AREAS.
4. THE GRADATION ENVELOPE FOR FINE FILTER WILL BE PREPARED ON THE BASIS OF LABORATORY TEST RESULTS OBTAINED FROM TEST PITS OF BORROW AREAS.
5. THE GRADATION ENVELOPE FOR COARSE FILTER WILL BE PREPARED ON THE BASIS OF LABORATORY TEST RESULTS OBTAINED FROM TEST PITS OF BORROW AREAS.
6. THE RIP RAP MATERIAL TO WITHSTAND VERY SEVERE ACTION FROM WAVES AND DESTRUCTIVE FORCES ASSOCIATED WITH FREEZING AND THAWING WETTING & DRYING.
CLAY STONE / SILTSTONE SHALL NOT BE USED. MAXIMUM SIZE OF ROCK FRAGMENTS UPTO 600mm IS ALLOWED.



REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
- RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.
- CGE** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMC** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

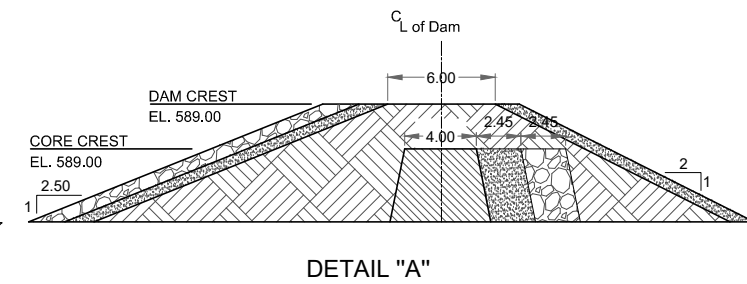
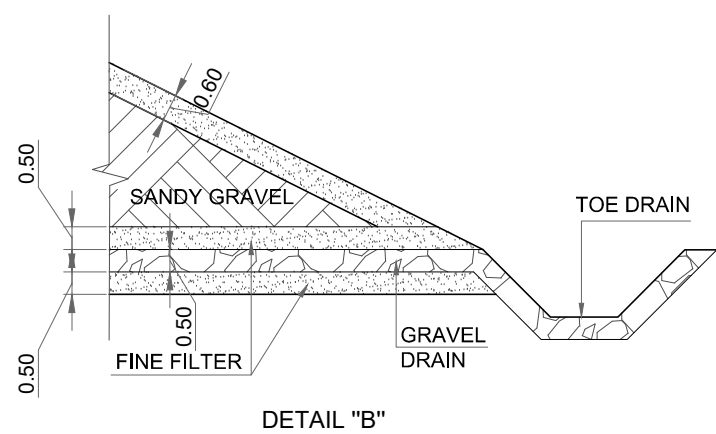
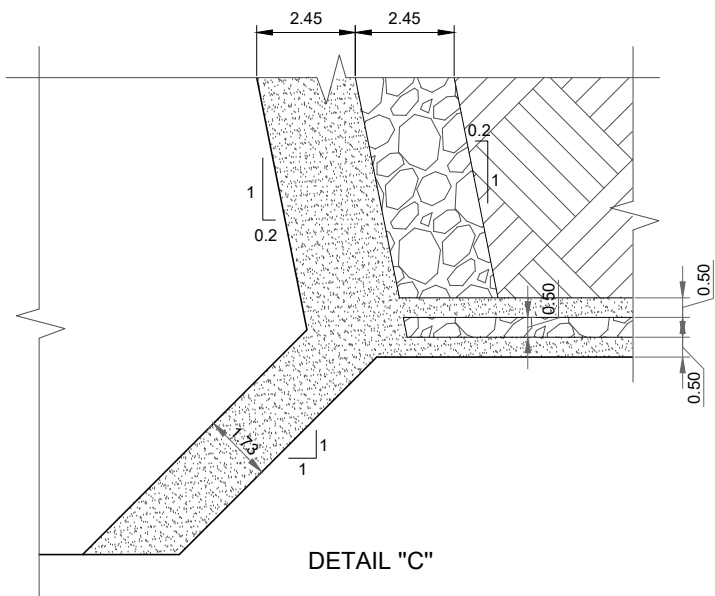
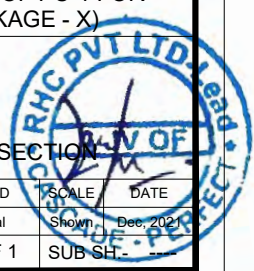
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

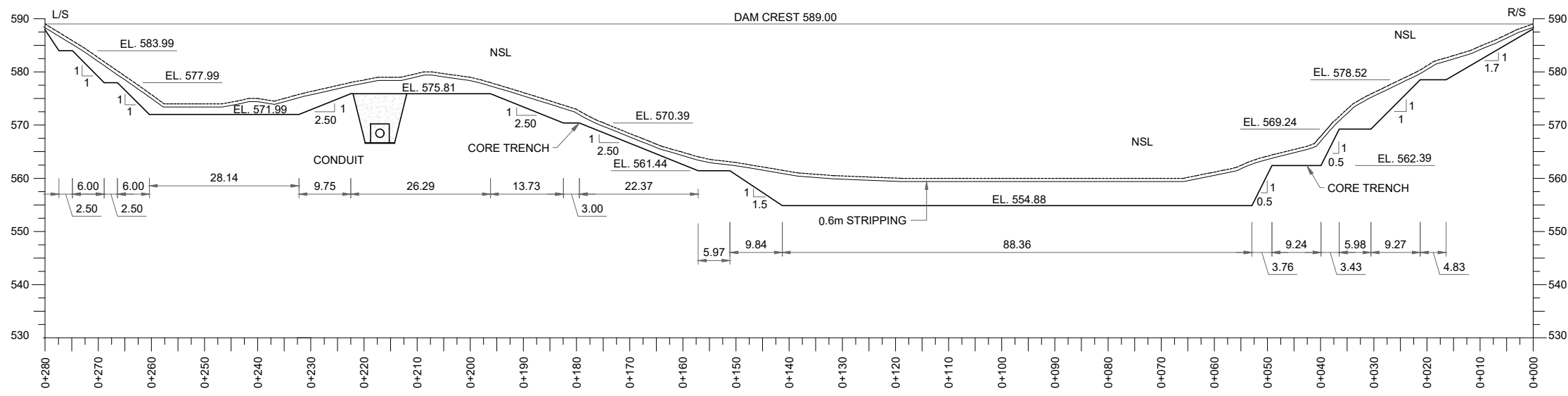
GHOZHEZAI DAM
T.S.D TANK

TITLE: MAIN DAM TYPICAL CROSS SECTION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:- GHD-BD-MD-02		SHEET:-1 OF 1		SUB SH-	

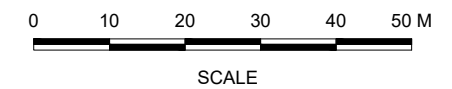


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NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

- MAIN DAM LAYOUT PLAN GHD-BD-MD-01
- MAIN DAM CROSS SECTION GHD-BD-MD-04

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE GROUP**
OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING &**
MANAGEMENT CONSULTANTS

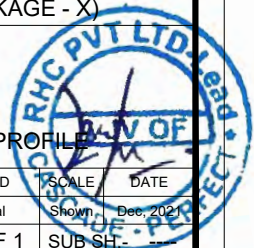
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

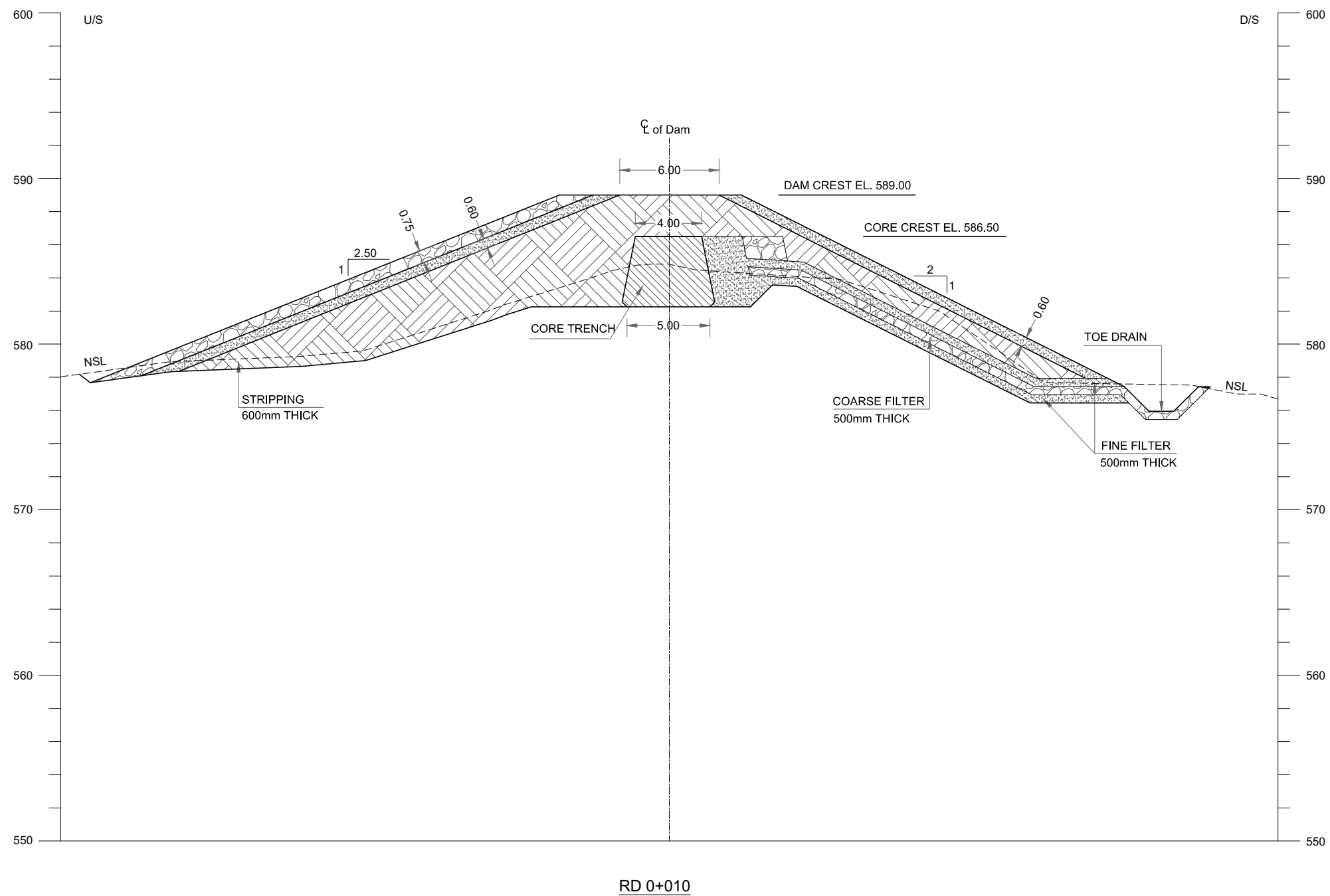
GHOZHEZAI DAM
T.S.D TANK

TITLE: MAIN DAM LONGITUDINAL PROFILE

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2022
DRG.No:-	GHD-BD-MD-03	SHEET:-	1 OF 1	SUB SH:-	

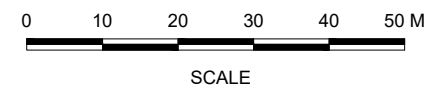


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NOTES:

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CLAY STONE / SILTSTONE SHALL NOT BE USED. MAXIMUM SIZE OF ROCK FRAGMENTS UPTO 600mm IS ALLOWED.



REFERENCE DRAWINGS :-

- MAIN DAM LAYOUT PLAN GHD-BD-MD-01
- MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE GROUP**
OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

PROJECT:

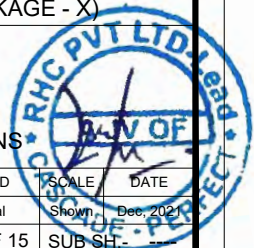
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

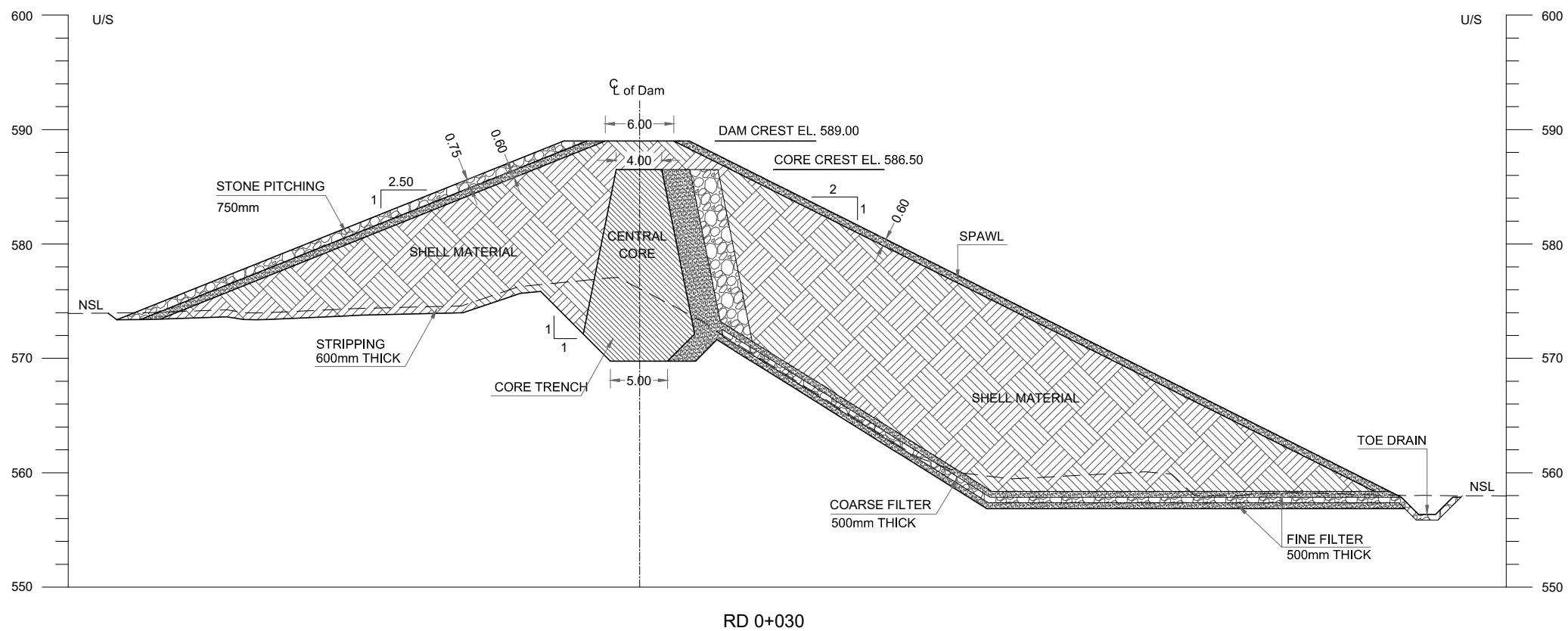
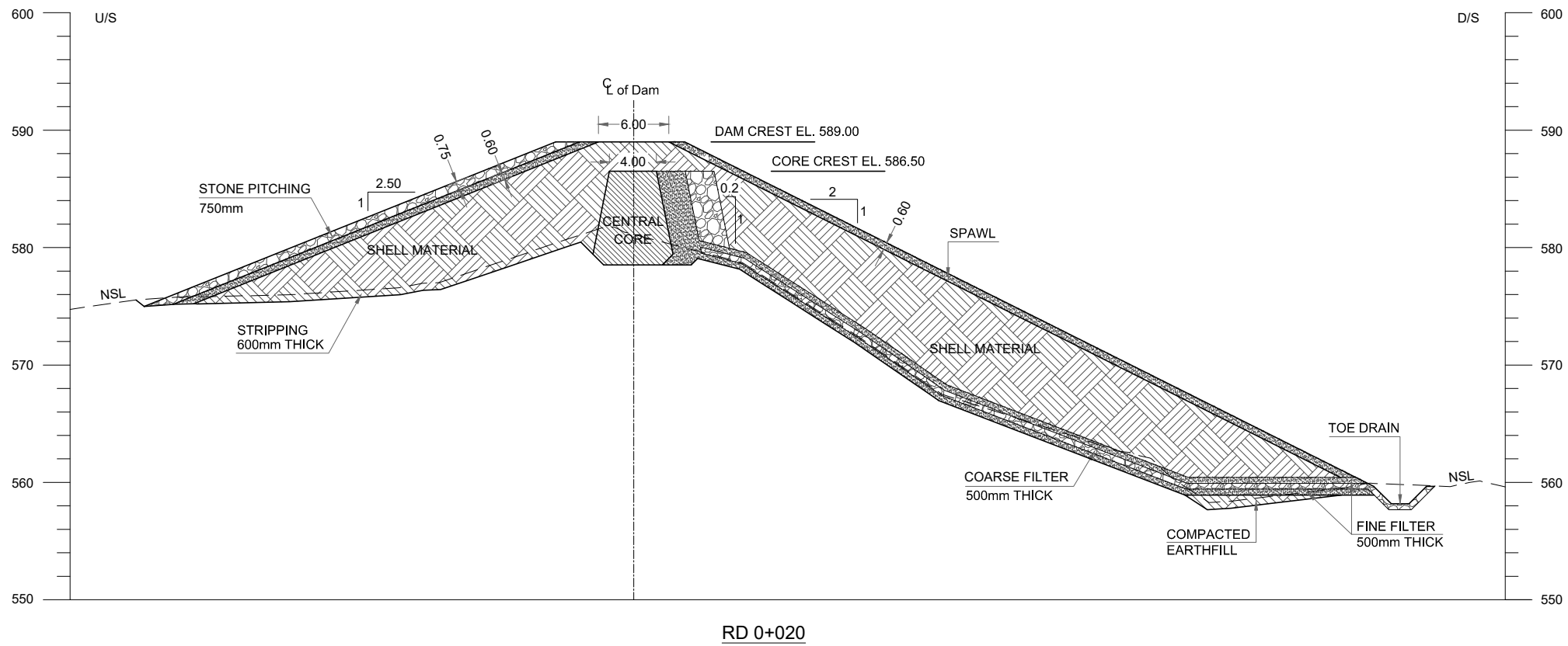
TITLE: DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-MD-04 SHEET:-1 OF 15 SUB SHEET:-

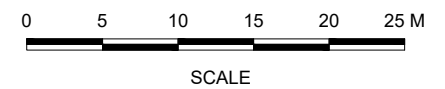


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REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

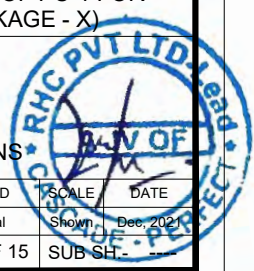
CONSULTANTS: A J.V OF
 REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

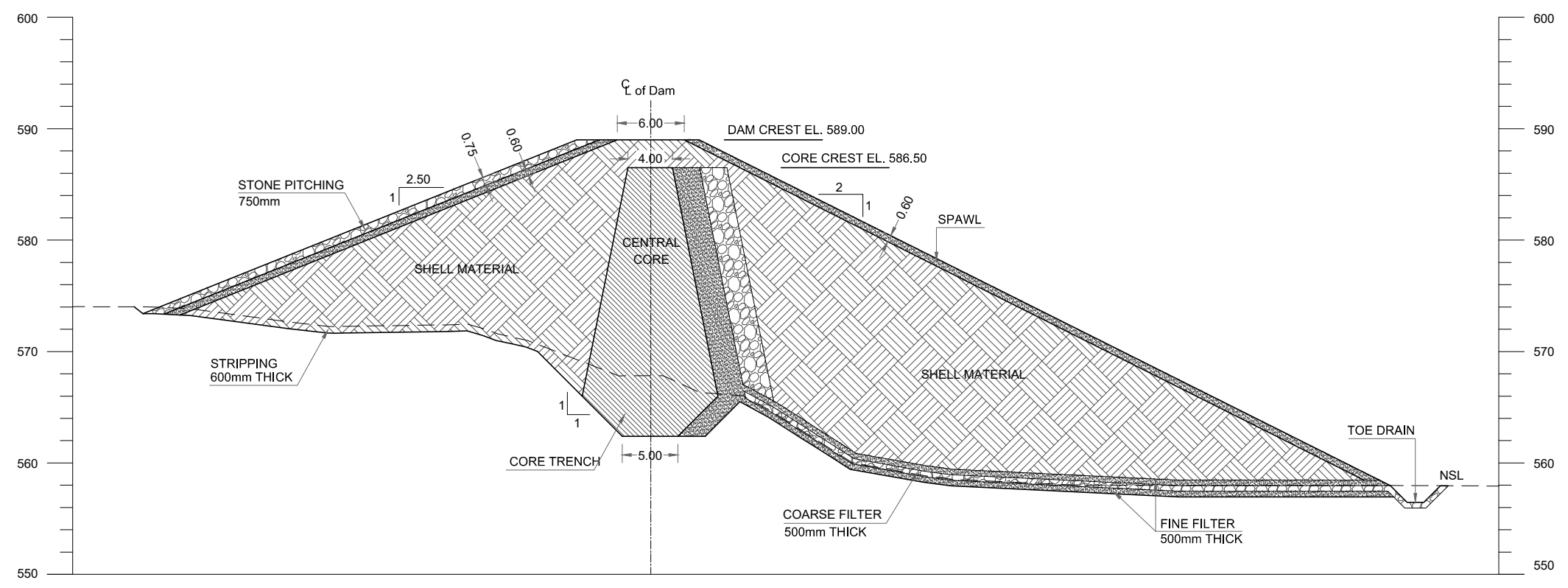
GHOZHEZAI DAM
T.S.D TANK
TITLE: DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

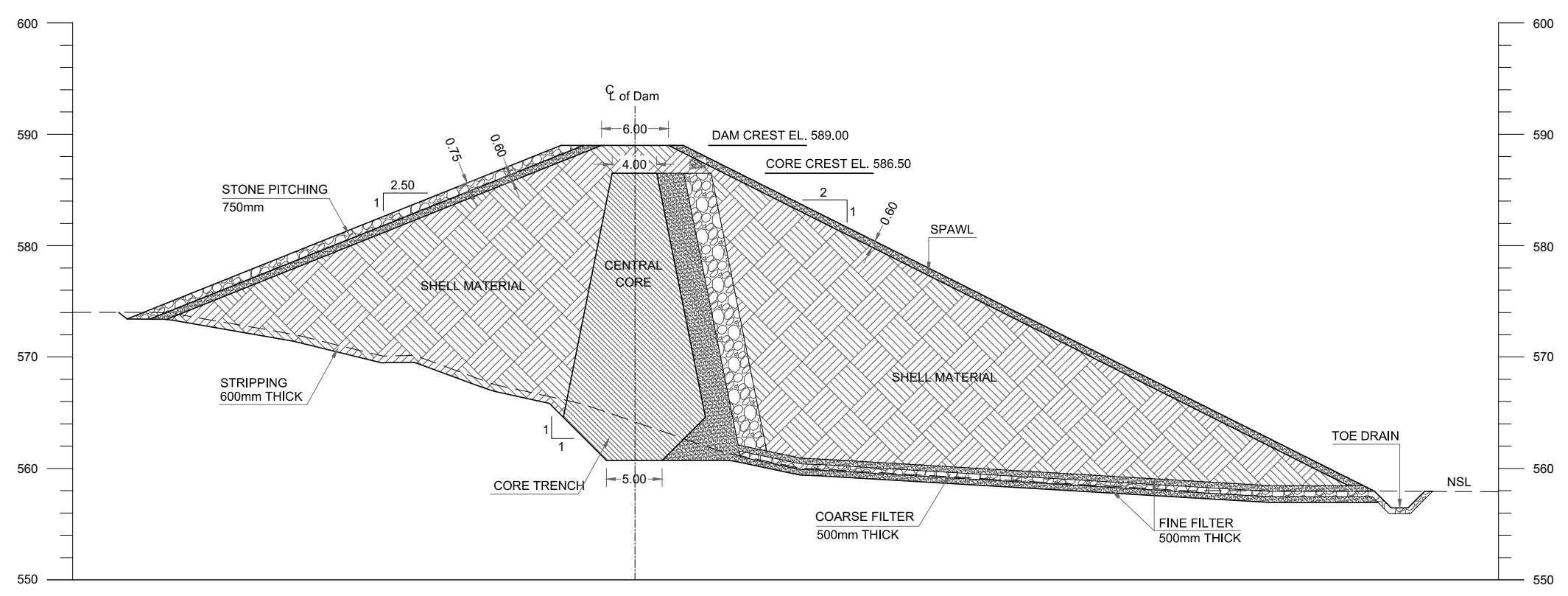
DRG.No:- GHD-BD-MD-04 SHEET:-2 OF 15 SUB SH-



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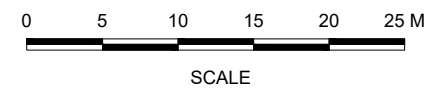
RD 0+040



RD 0+050

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MAIN DAM LAYOUT PLAN GHD-BD-MD-01
 MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
 PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

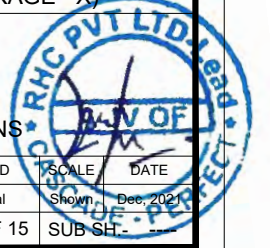
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PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

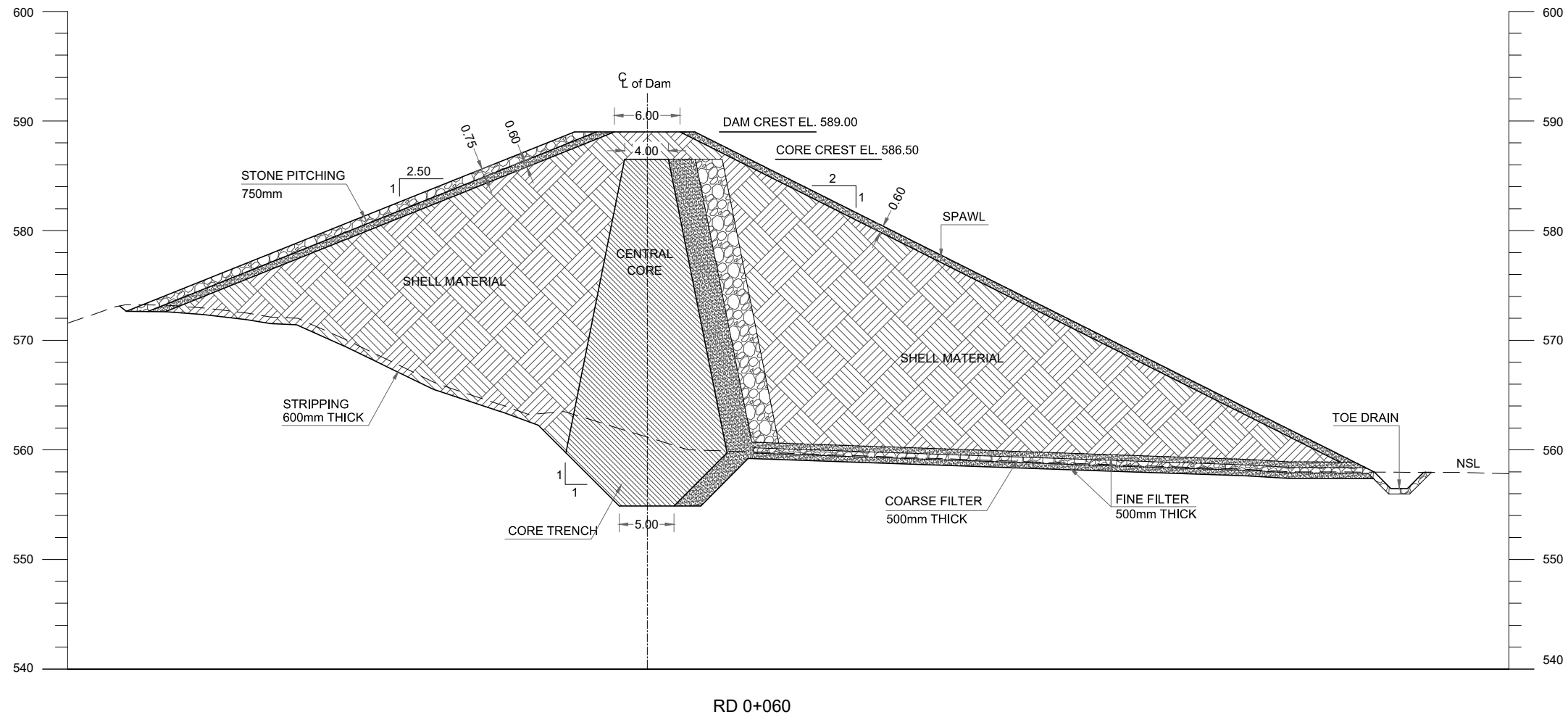
TITLE:
 GHOZHEZAI DAM
 T.S.D TANK
 DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021

DRG.No:- GHD-BD-MD-04 SHEET:-3 OF 15 SUB SH-

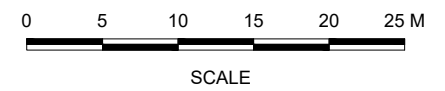


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REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
 MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

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- CASCAD** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMG** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

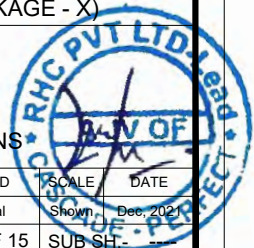
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
 T.S.D TANK

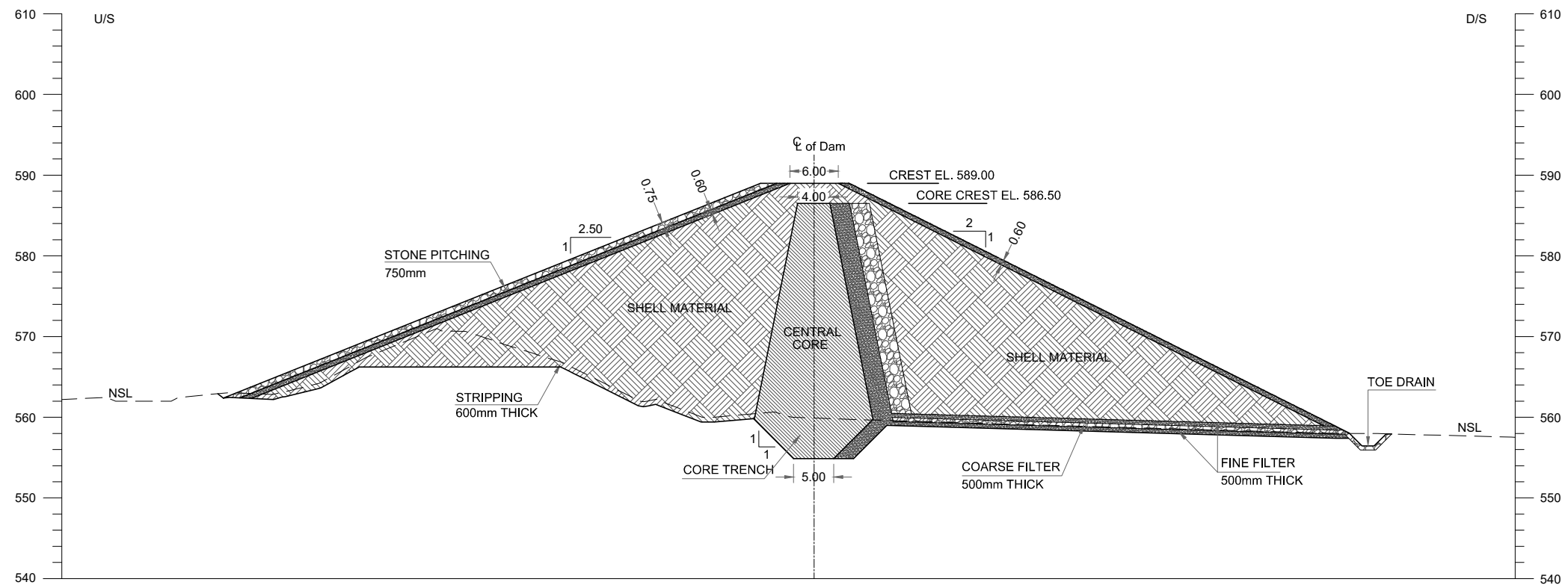
TITLE:

DAM CROSS SECTIONS

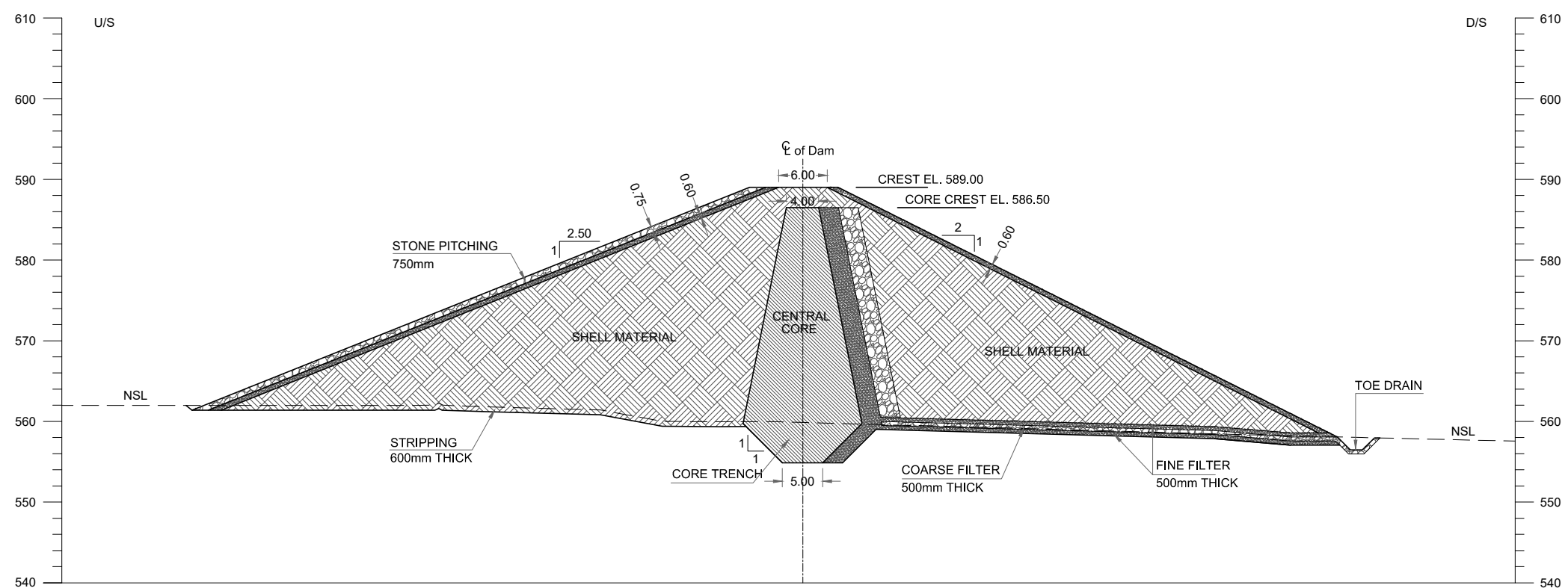
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:- GHD-BD-MD-04		SHEET:-4 OF 15		SUB SH-	



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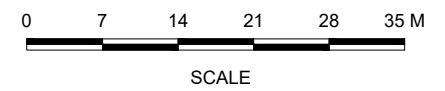
RD 0+070



RD 0+080

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- MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

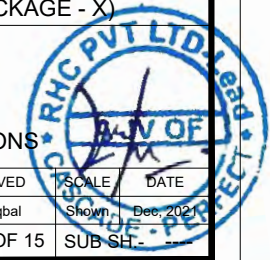
CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

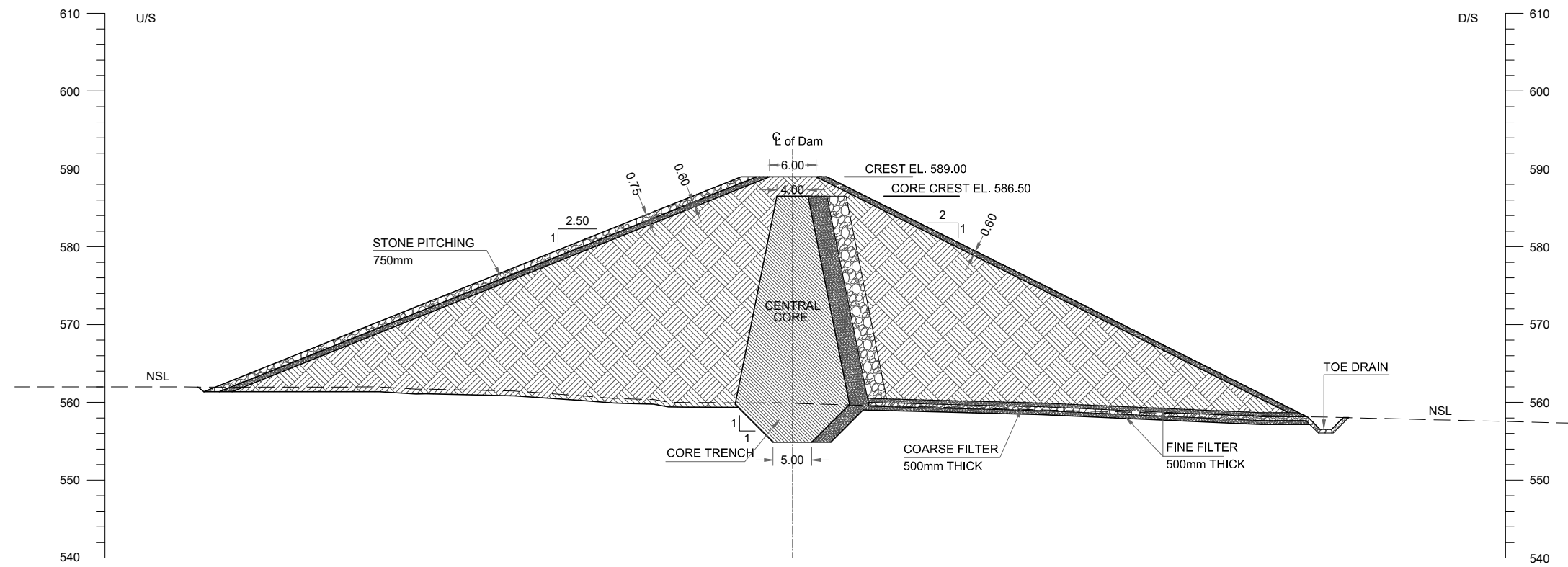
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK
TITLE: DAM CROSS SECTIONS

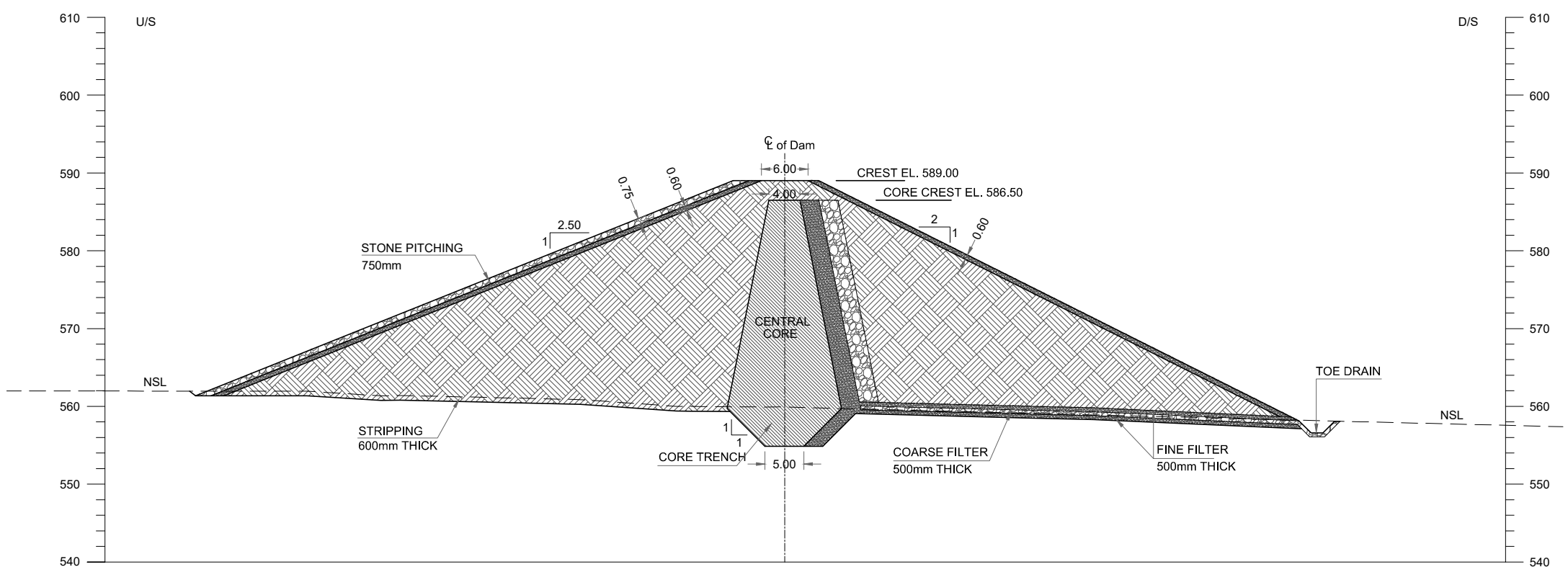
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:- GHD-BD-MD-04			SHEET:-5 OF 15		SUB SH-



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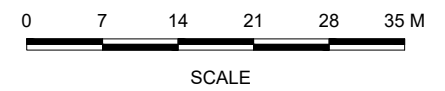
RD 0+090



RD 0+100

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- MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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- CEG** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMC** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

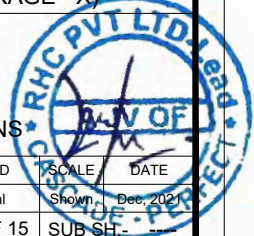
GHOZHEZAI DAM
T.S.D TANK

TITLE:

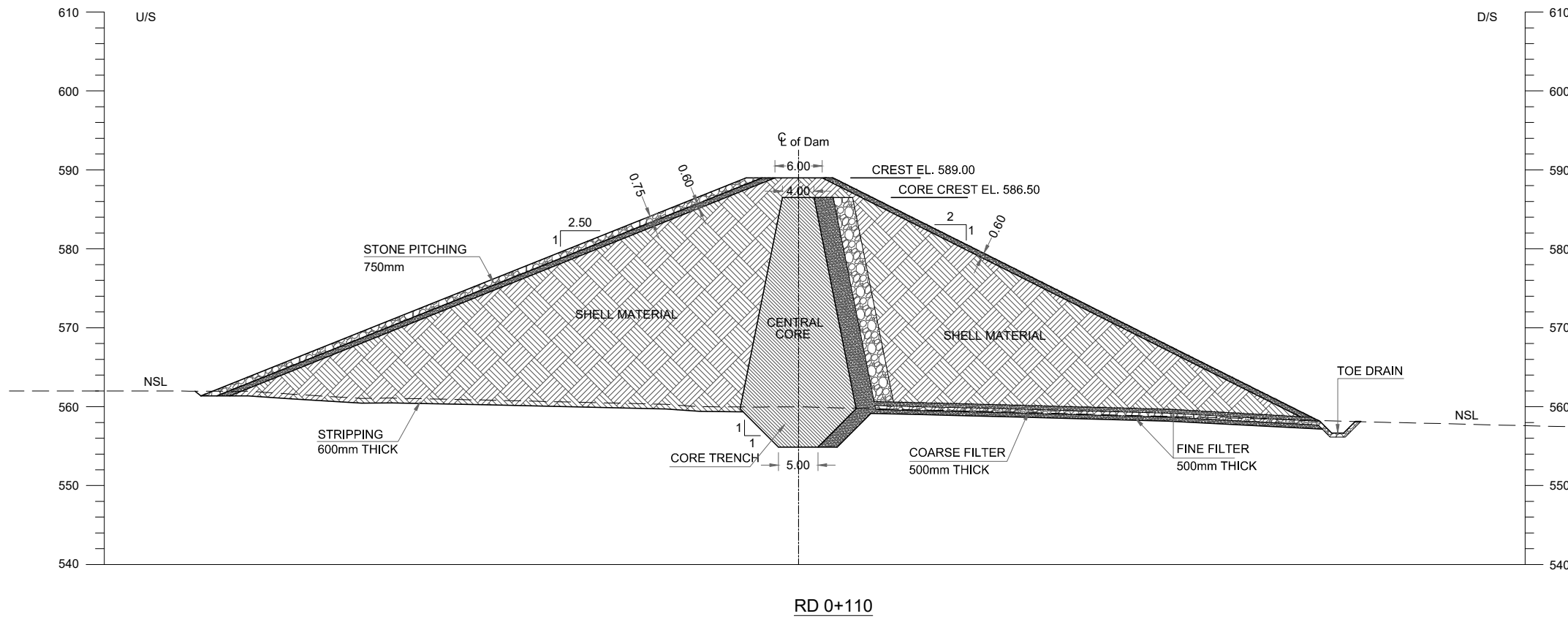
DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-MD-04 SHEET:-6 OF 15 SUB SHEET:-

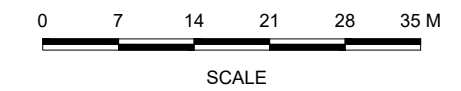


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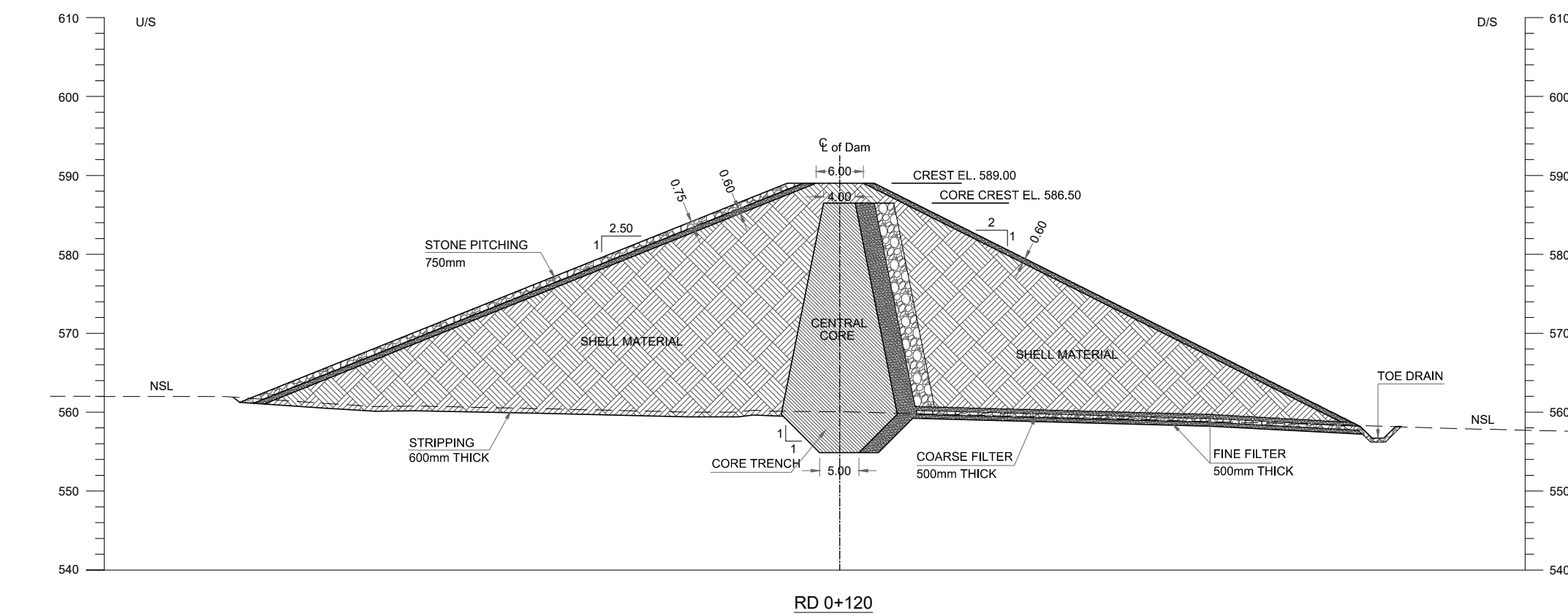
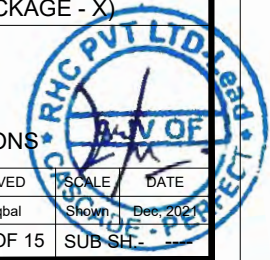
CLIENT:
 PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
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CGE CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

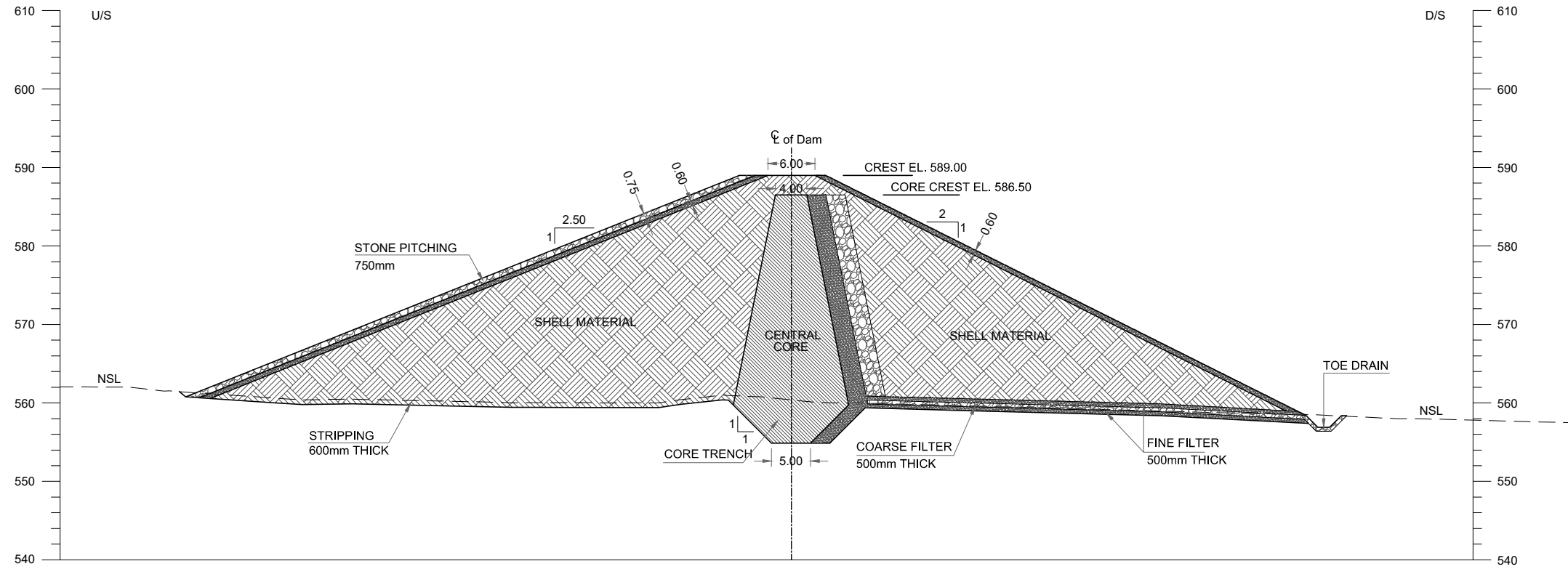
PROJECT:
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 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
 T.S.D TANK
 TITLE: DAM CROSS SECTIONS

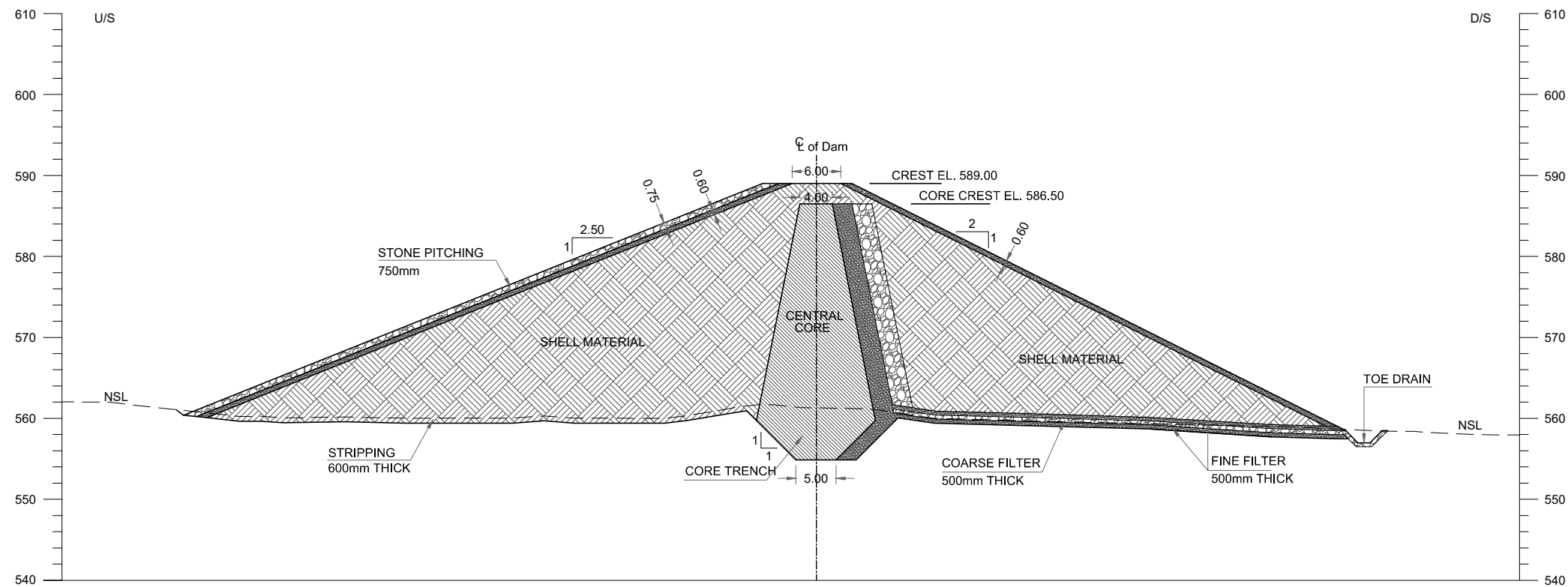
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:- GHD-BD-MD-04			SHEET:-7 OF 15		SUB SH-



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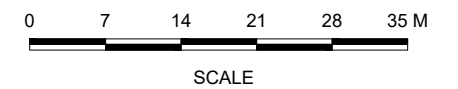
RD 0+130



RD 0+140

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- MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

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CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

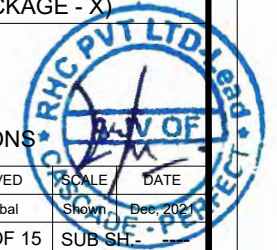
GHOZHEZAI DAM
T.S.D TANK

TITLE:

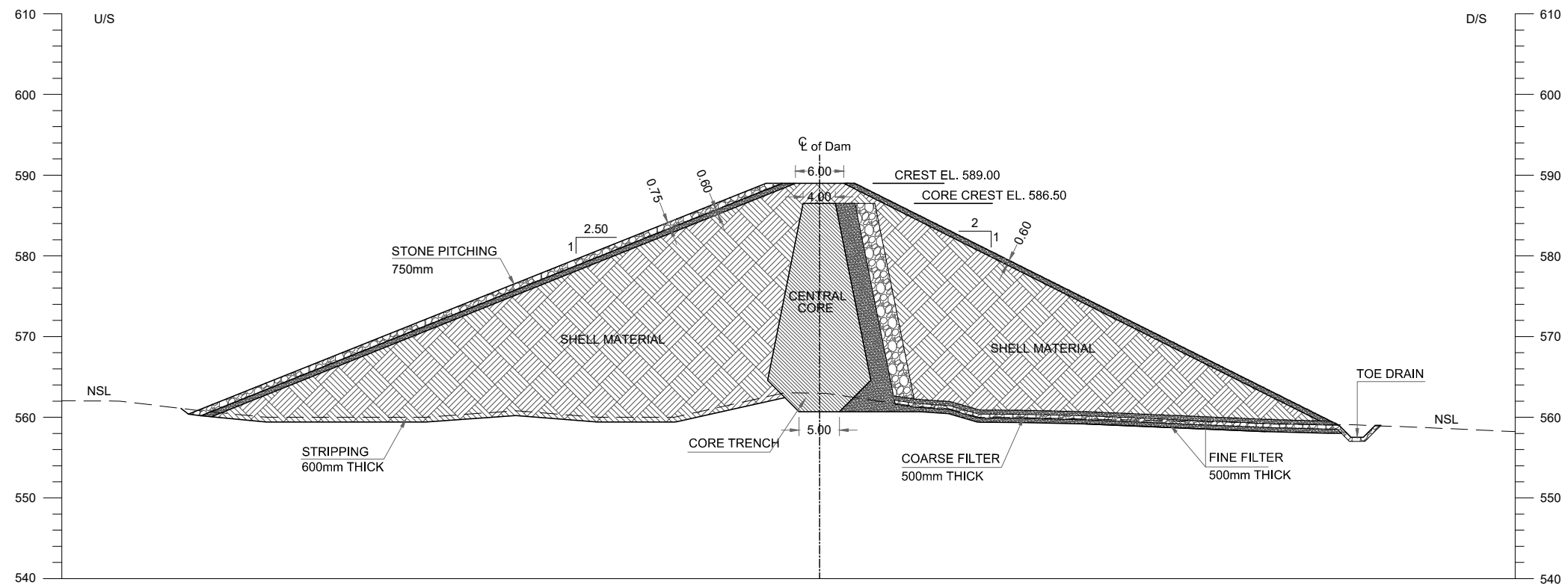
DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

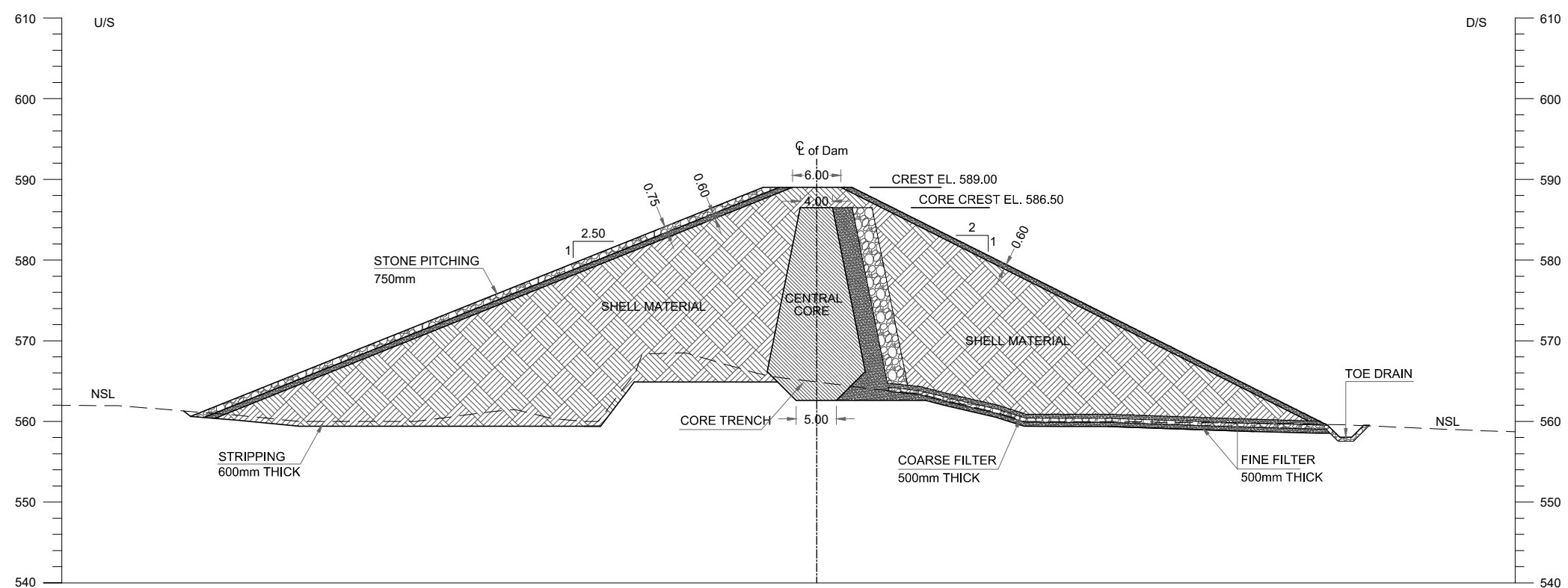
DRG.No:- GHD-BD-MD-04 SHEET:-8 OF 15 SUB SH:-



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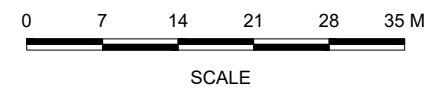
RD 0+150



RD 0+160

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
2. EARTHFILL TO BE COMPACTED AT 95% OF MAXIMUM DRY DENSITY DETERMINED THROUGH MODIFIED AASHTO COMPACTION T180.
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REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

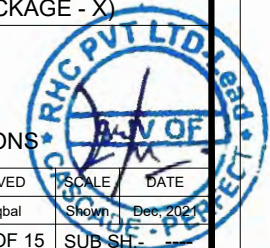
CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
 REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

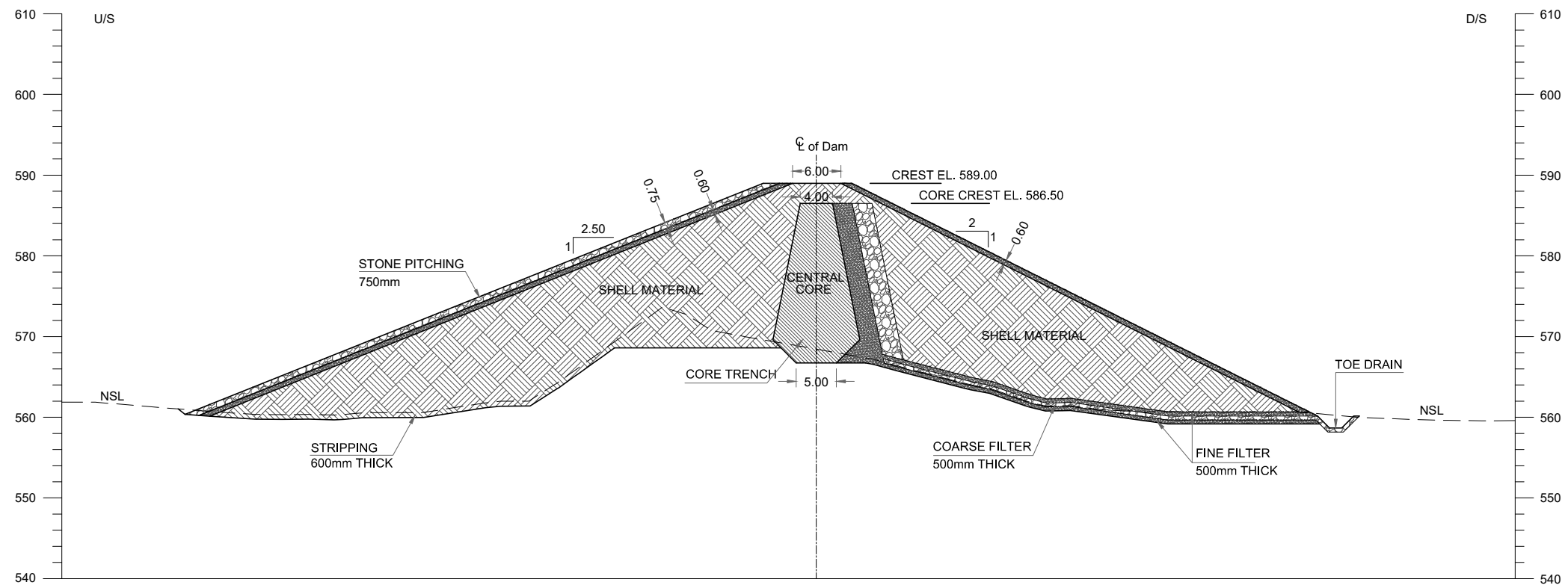
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
DAM CROSS SECTIONS

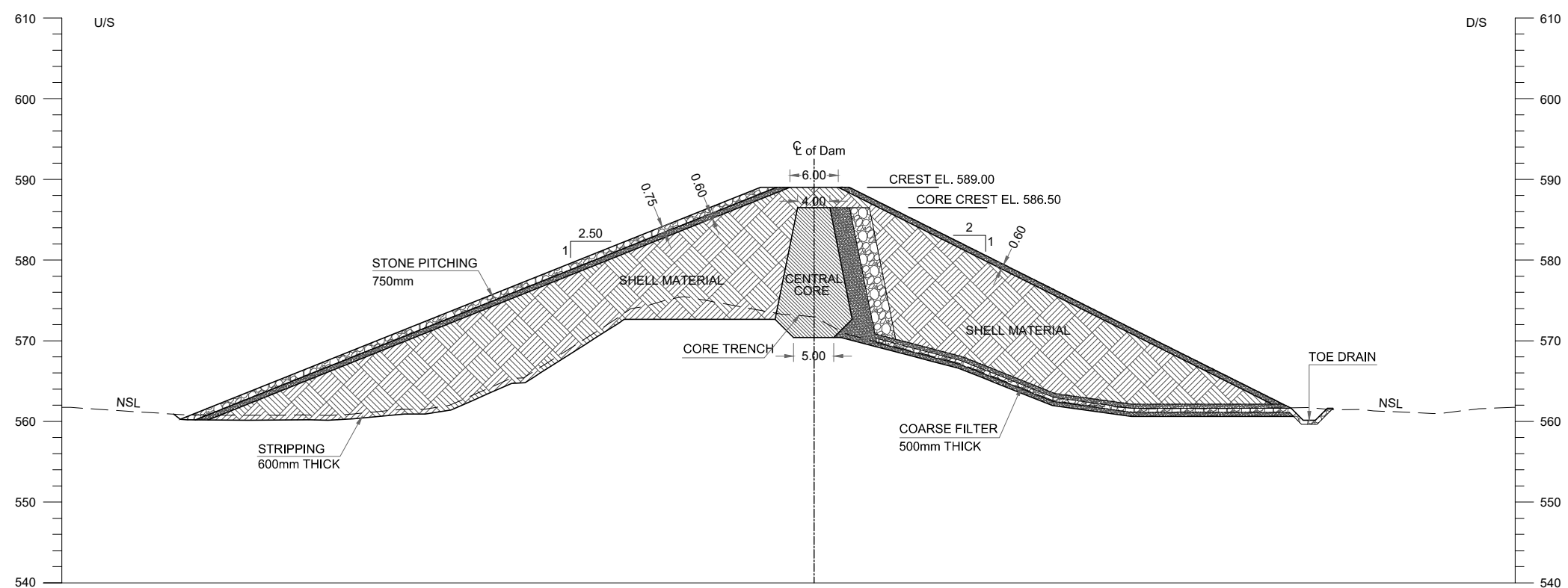
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021
DRG.No:- GHD-BD-MD-04			SHEET:-9 OF 15		SUB SH-



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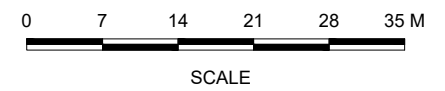
RD 0+170



RD 0+180

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REFERENCE DRAWINGS :-

- MAIN DAM LAYOUT PLAN GHD-BD-MD-01
- MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

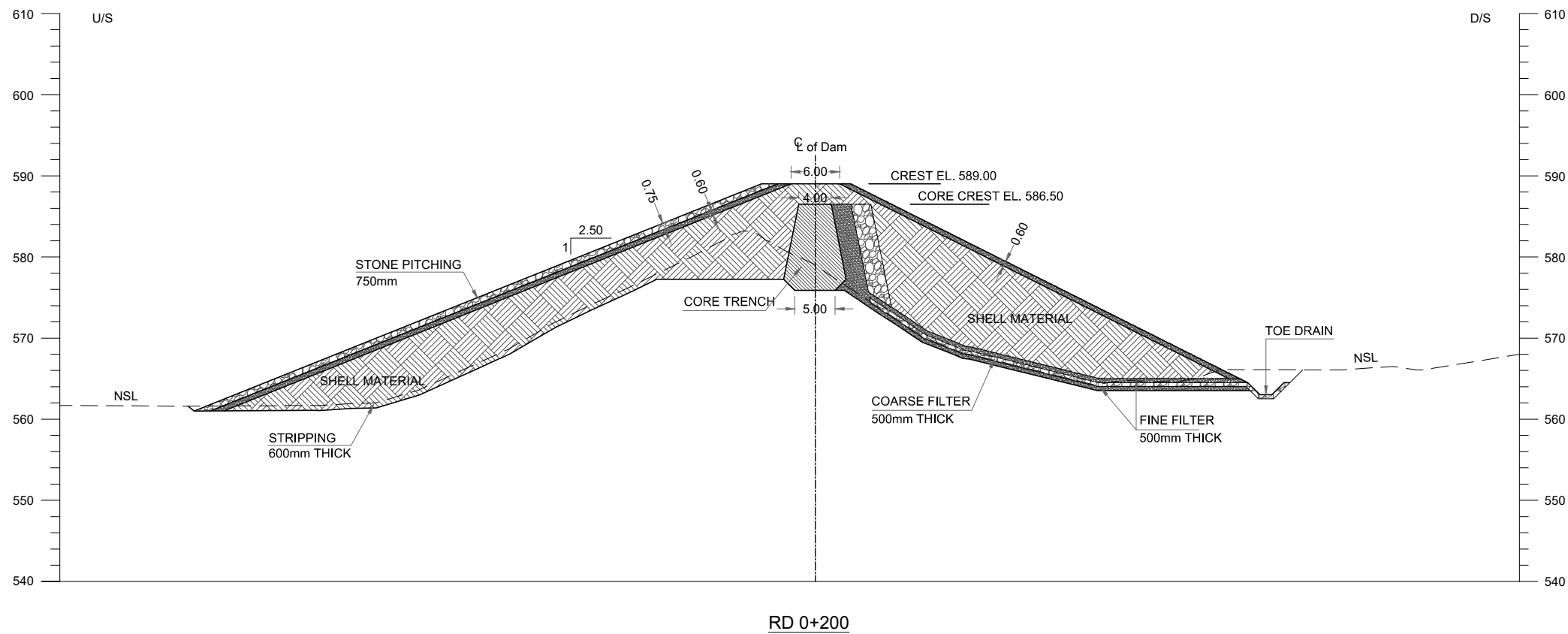
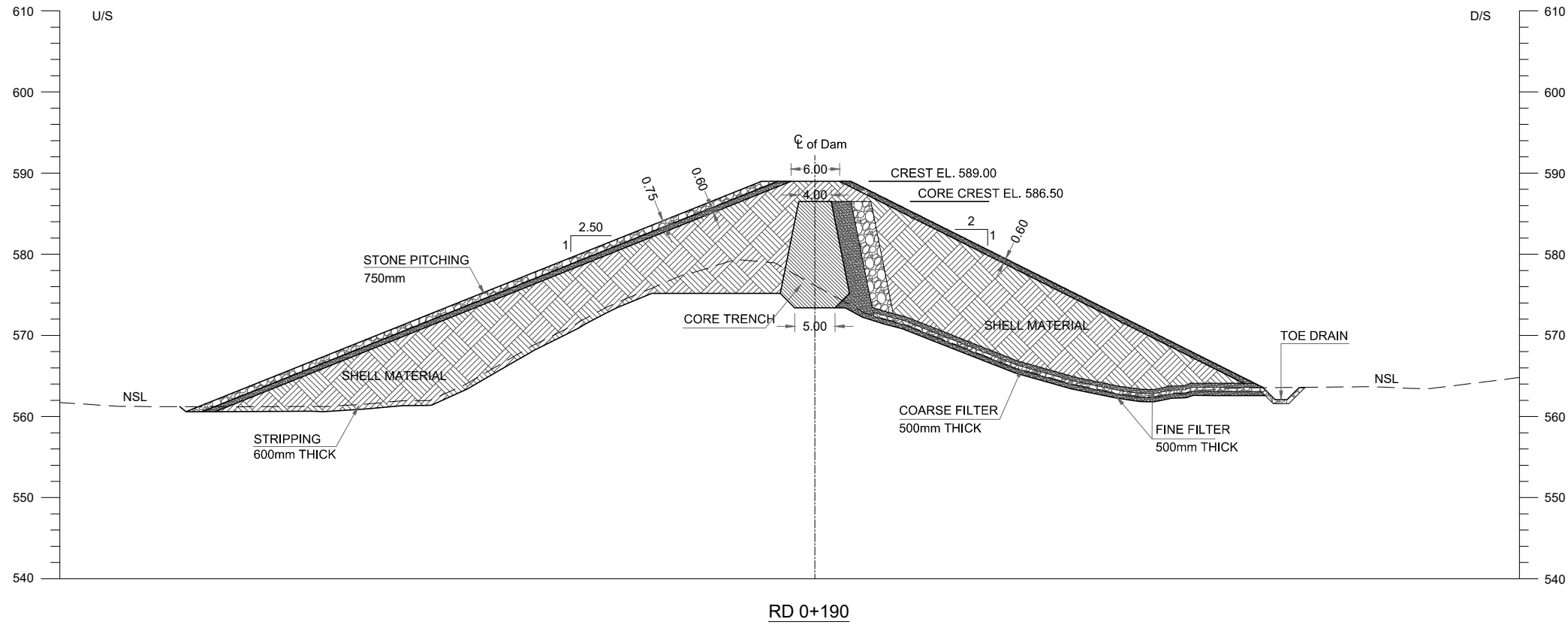
TITLE: DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-MD-04 SHEET:-10 OF 15 SUB SHEET:-

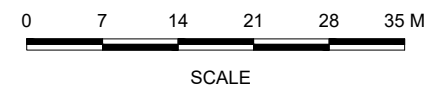


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REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
 MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
 PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

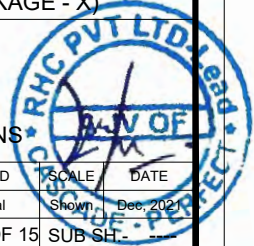
CONSULTANTS: A J.V OF
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 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

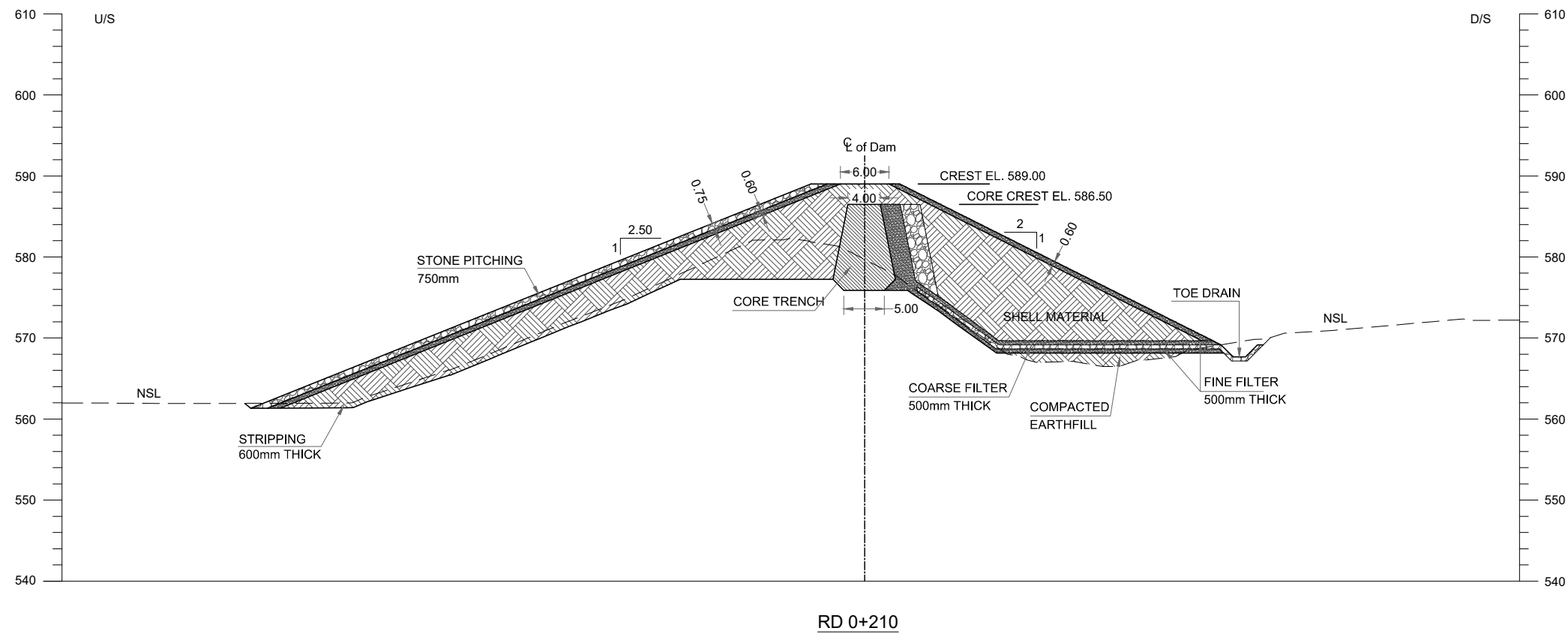
GHOZHEZAI DAM
 T.S.D TANK
 TITLE: DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021

DRG.No:- GHD-BD-MD-04 SHEET:-11 OF 15 SUB SH-

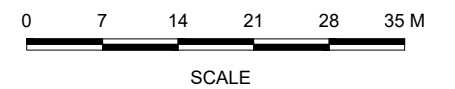


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REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
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PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

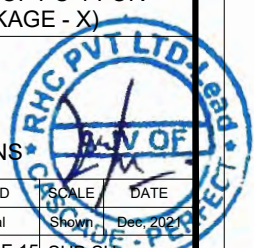
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T.S.D TANK

TITLE:

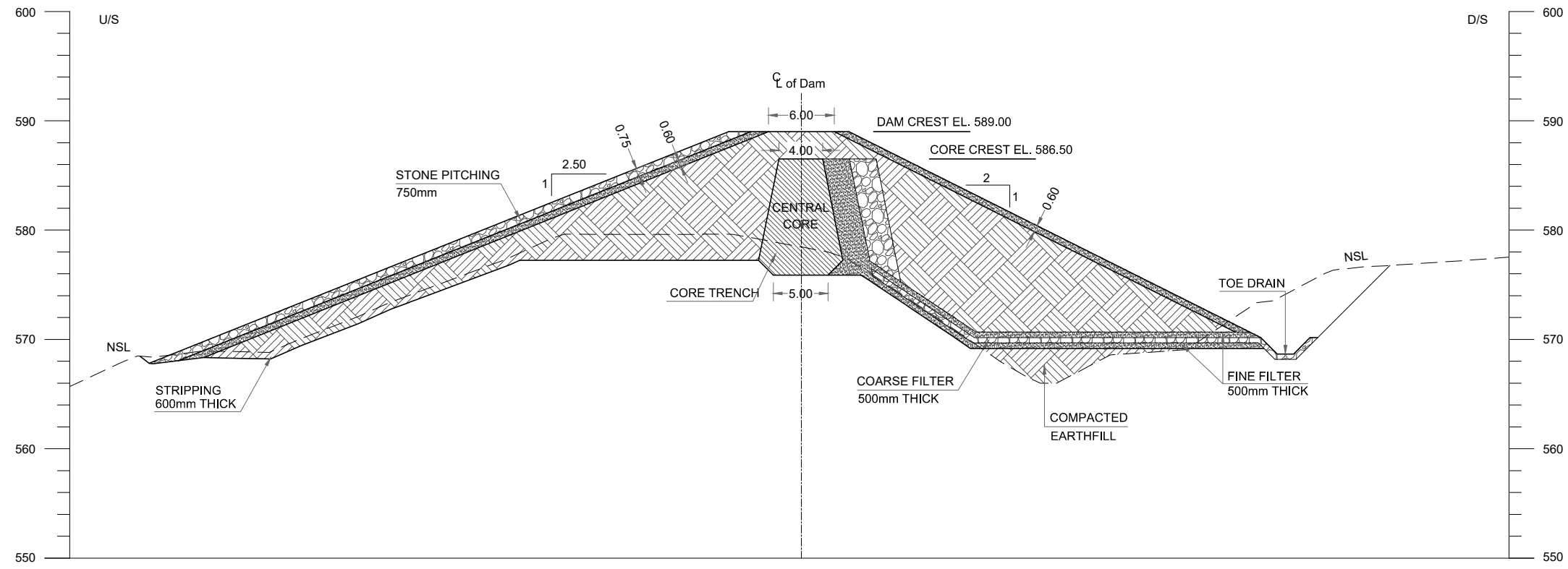
DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

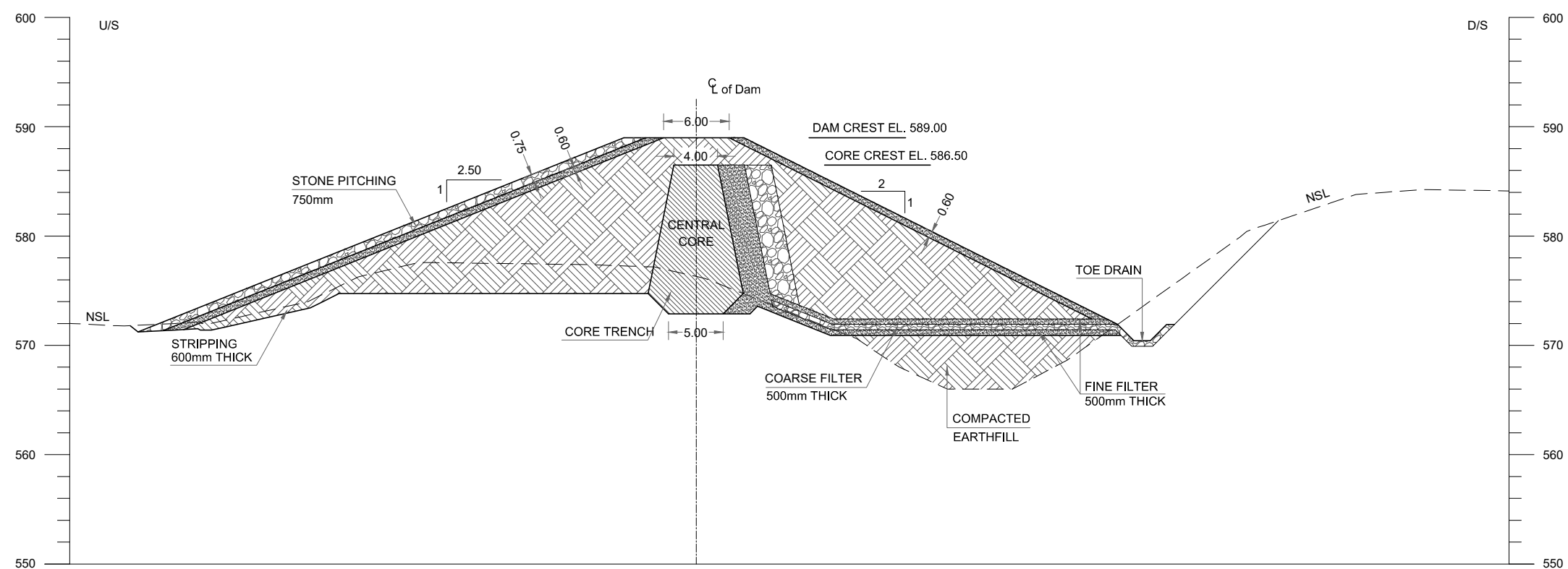
DRG.No:- GHD-BD-MD-04 SHEET:- 12 OF 15 SUB SHEET:-



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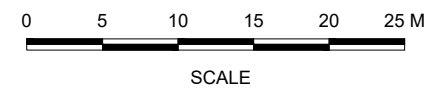
RD 0+220



RD 0+230

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REFERENCE DRAWINGS :-
 MAIN DAM LAYOUT PLAN GHD-BD-MD-01
 MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03
 DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
 PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

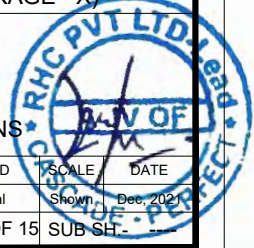
CONSULTANTS: A J.V OF
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CGE CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

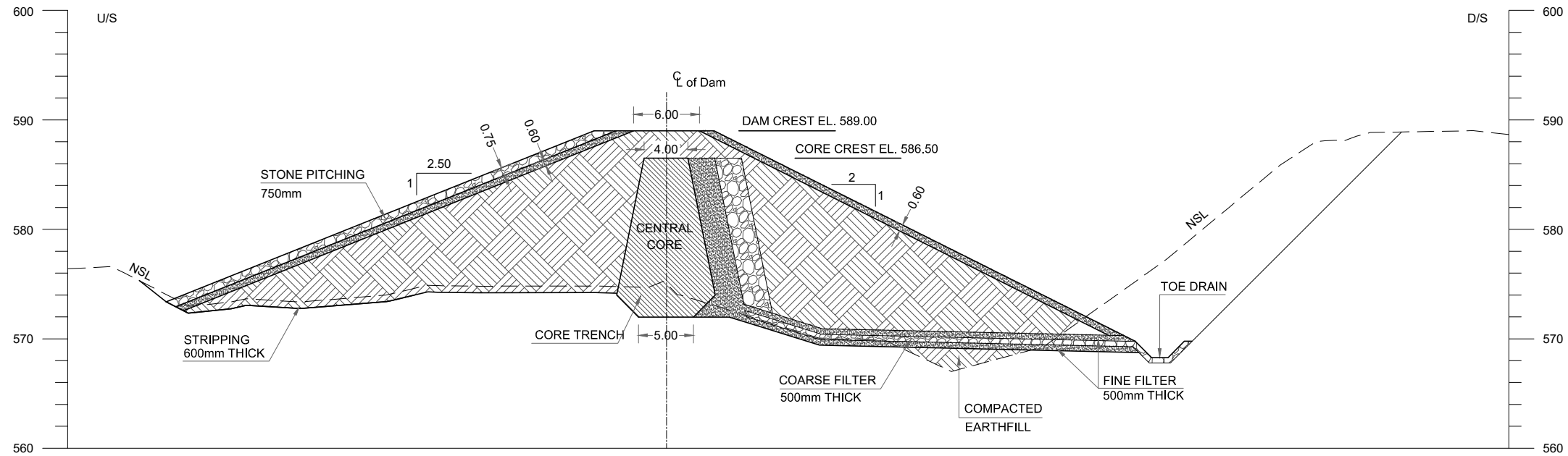
GHOZHEZAI DAM
 T.S.D TANK
 TITLE: DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

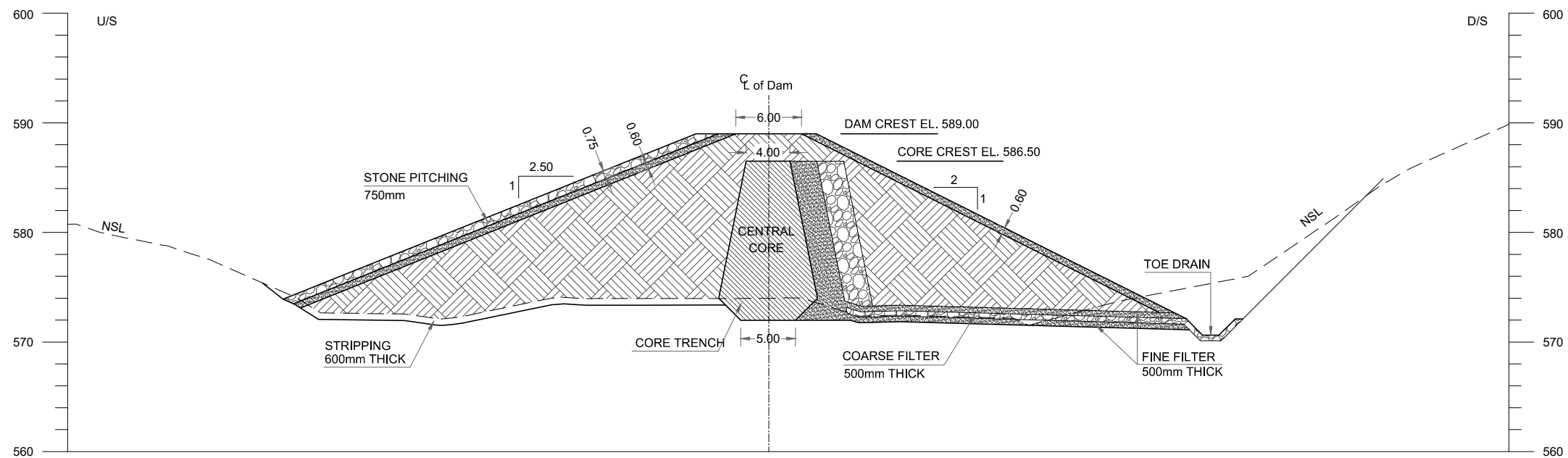
DRG.No:- GHD-BD-MD-04 SHEET:-13 OF 15 SUB SHEET:-



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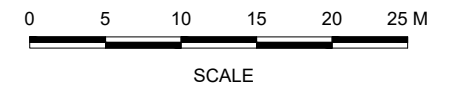
RD 0+240



RD 0+250

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REFERENCE DRAWINGS :-

MAIN DAM LAYOUT PLAN GHD-BD-MD-01
MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

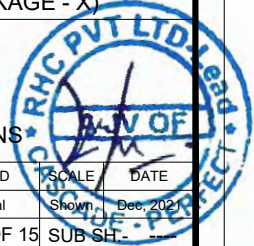
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

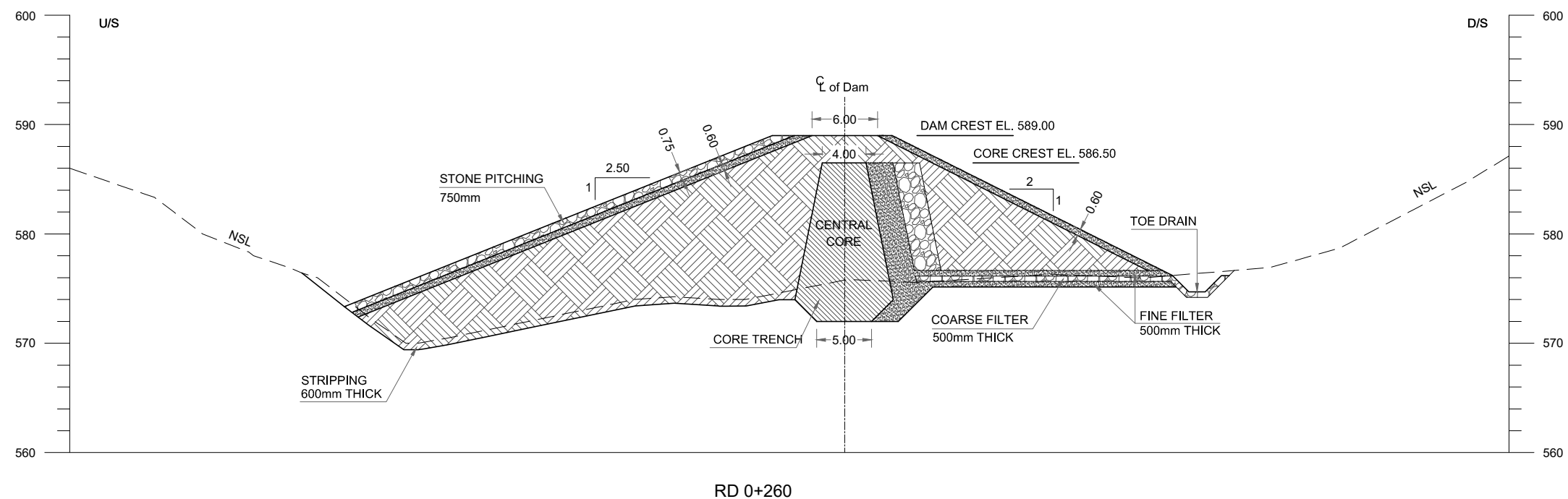
TITLE:

DAM CROSS SECTIONS

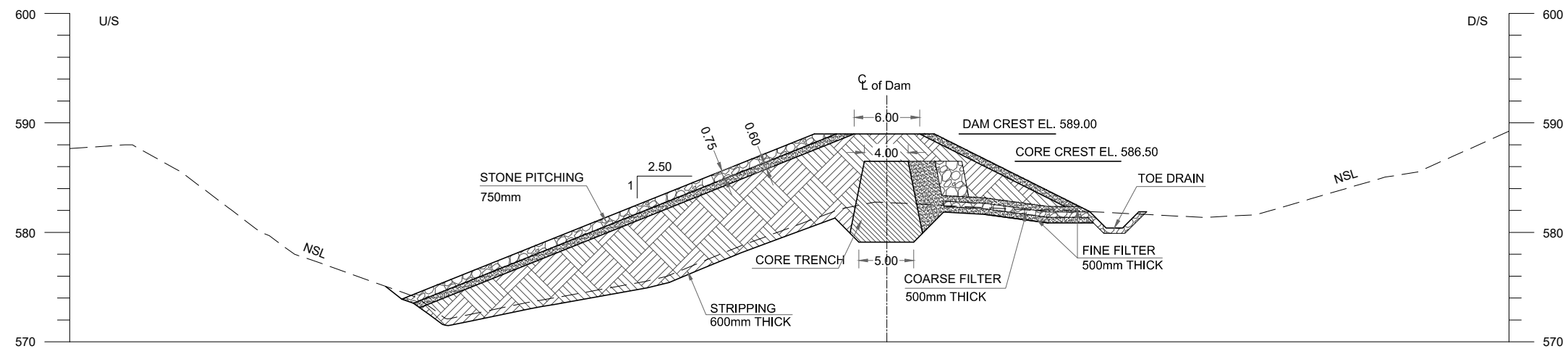
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021
DRG.No:- GHD-BD-MD-04				SHEET:- 14 OF 15 SUB SH-	



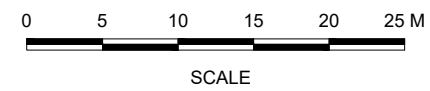
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RD 0+260



RD 0+270



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MAIN DAM LONGITUDINAL PROFILE GHD-BD-MD-03

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

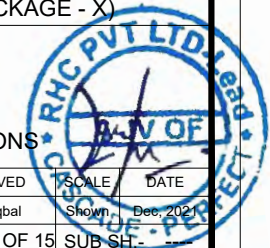
CONSULTANTS: A J.V OF
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PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
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5 SMALL DAMS IN FATA (PACKAGE - X)

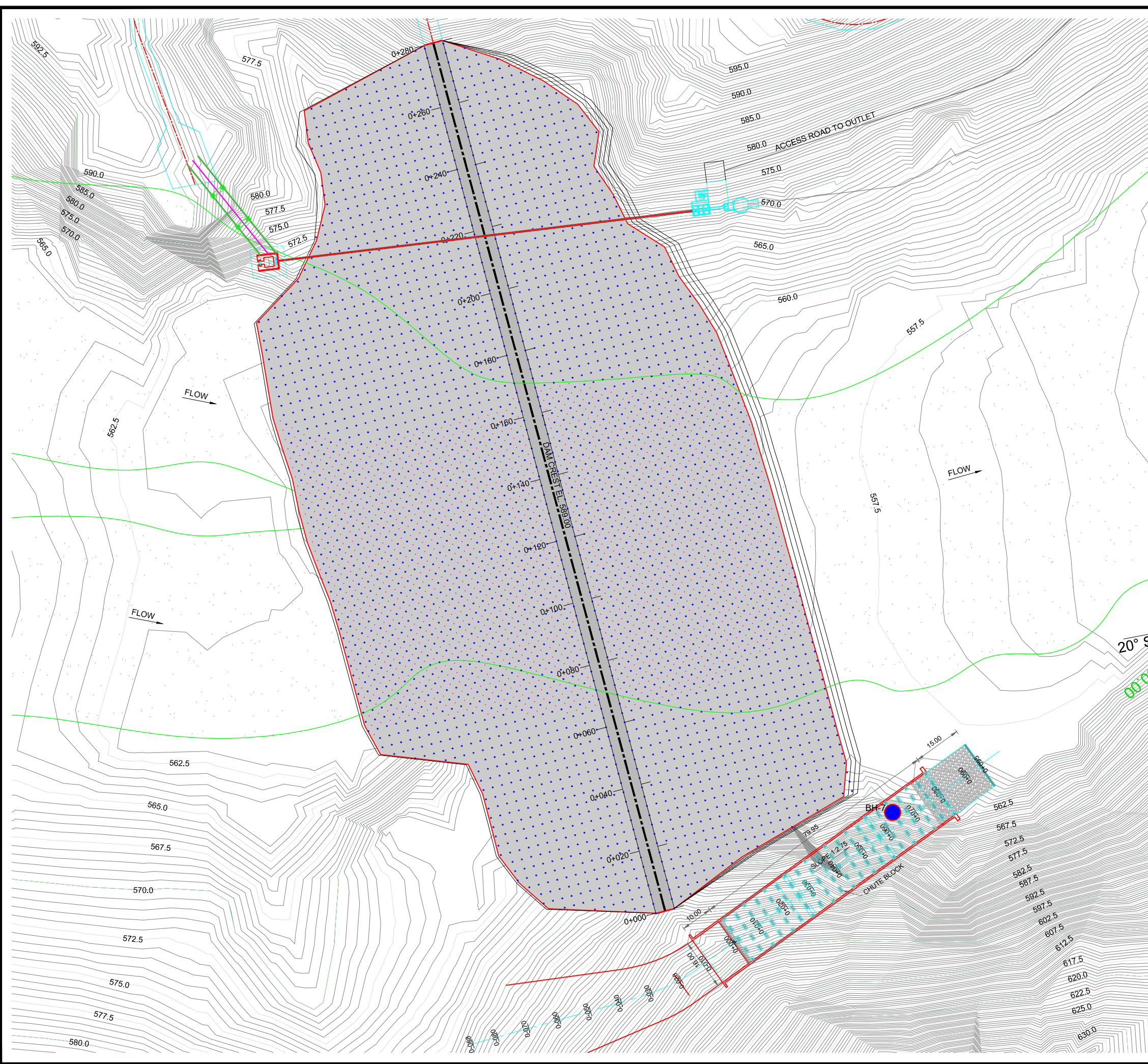
TITLE:
GHOZHEZAI DAM
T.S.D TANK
DAM CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-MD-04 SHEET:- 15 OF 15 SUB SHEET:-

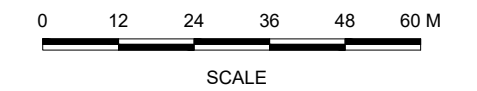
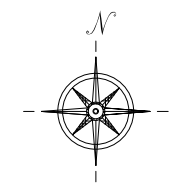





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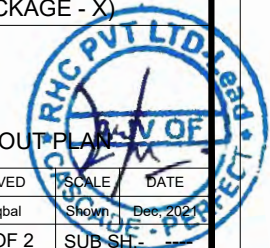


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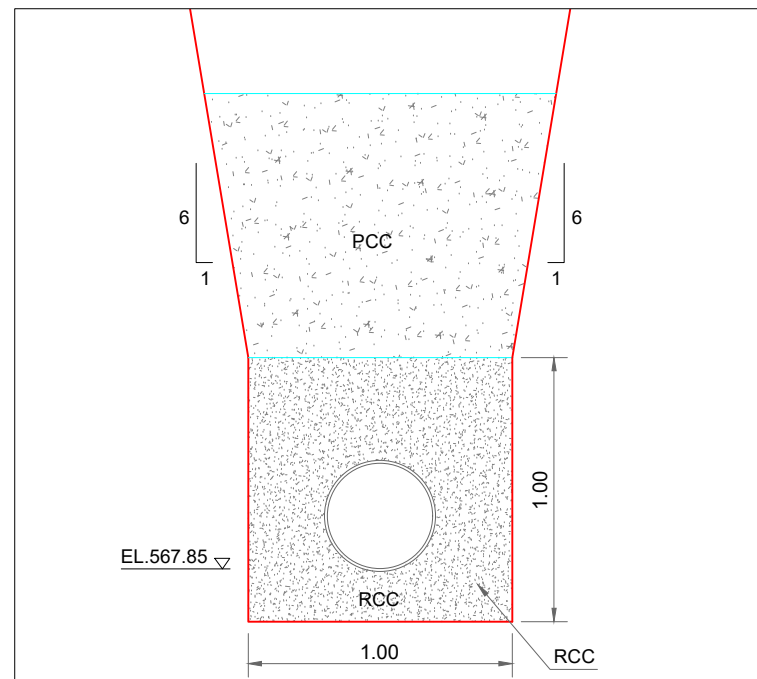
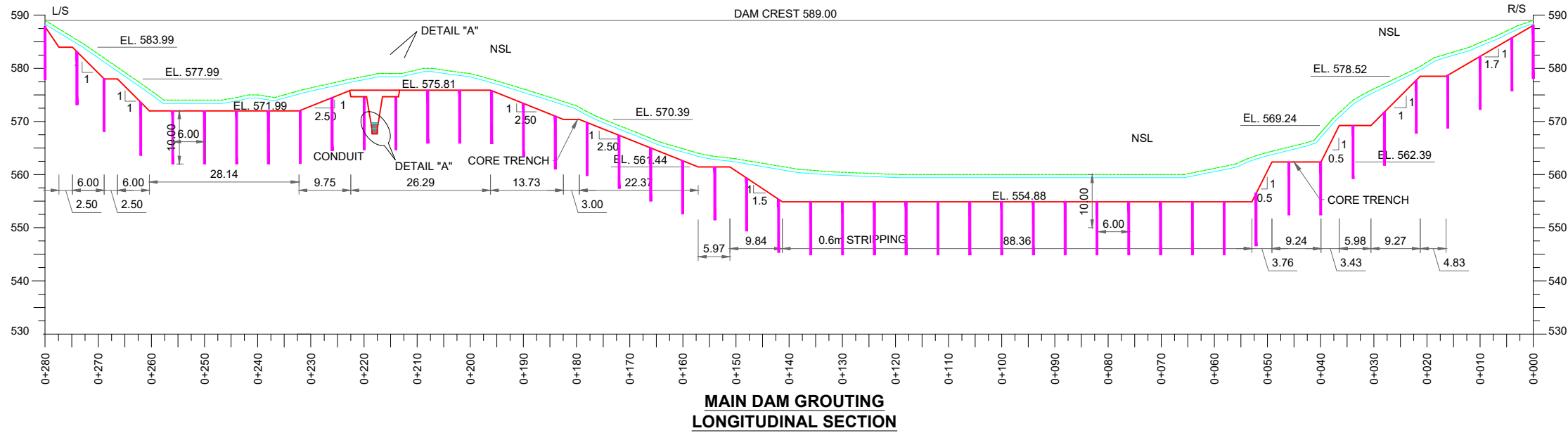
1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-				
MAIN DAM GROUTING PROFILE GHD-BD-MD-06				
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CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.				
CONSULTANTS: A J.V OF  REHMAN HABIB CONSULTANTS (PVT) LTD.  CASCADE GROUP OF ENGINEERING & CONSULTANTS  PERFECT ENGINEERING & MANAGEMENT CONSULTANTS				
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)				
GHOZHEZAI DAM T.S.D TANK				
TITLE: MAIN DAM GROUTING LAYOUT PLAN				
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown Dec, 2023
DRG.No:- GHD-BD-MD-05		SHEET:-1 OF 2		SUB SH-



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DETAIL "A"

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.
2. EARTHFILL TO BE COMPACTED AT 95% OF MAXIMUM DRY DENSITY DETERMINED THROUGH MODIFIED AASHTO COMPACTION T180.
3. THE GRADATION CURVE FOR COMPACTED EARTHFILL WILL BE PREPARED ON THE BASIS OF LABORATORY TEST RESULTS OBTAINED FROM TEST PITS OF BORROW AREAS.
4. THE GRADATION ENVELOP FOR FINE FILTER WILL BE PREPARED ON THE BASIS OF LABORATORY TEST RESULTS OBTAINED FROM TEST PITS OF BORROW AREAS.
5. THE GRADATION ENVELOP FOR COARSE FILTER WILL BE PREPARED ON THE BASIS OF LABORATORY TEST RESULTS OBTAINED FROM TEST PITS OF BORROW AREAS.
6. THE RIP RAP MATERIAL TO WITHDRND VERY SEVERE ACTION FROM WAVES AND DESTRUCTIVE FORCES ASSOCIATED WITH FREEZING AND THAWING WETTING & DRYING.
CLAY STONE / SILTSTONE SHALL NOT BE USED. MAXIMUM SIZE OF ROCK FRAGMENTS UPTO 600mm IS ALLOWED.

REFERENCE DRAWINGS :-

MAIN DAM GROUTING LAYOUT PLAN GHD-BD-MD-05

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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- REHMAN HABIB CONSULTANTS (PVT) LTD.
 - CASCADE GROUP OF ENGINEERING & CONSULTANTS
 - PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

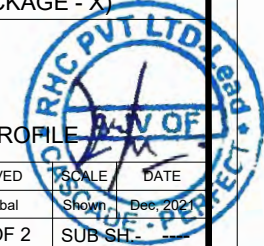
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

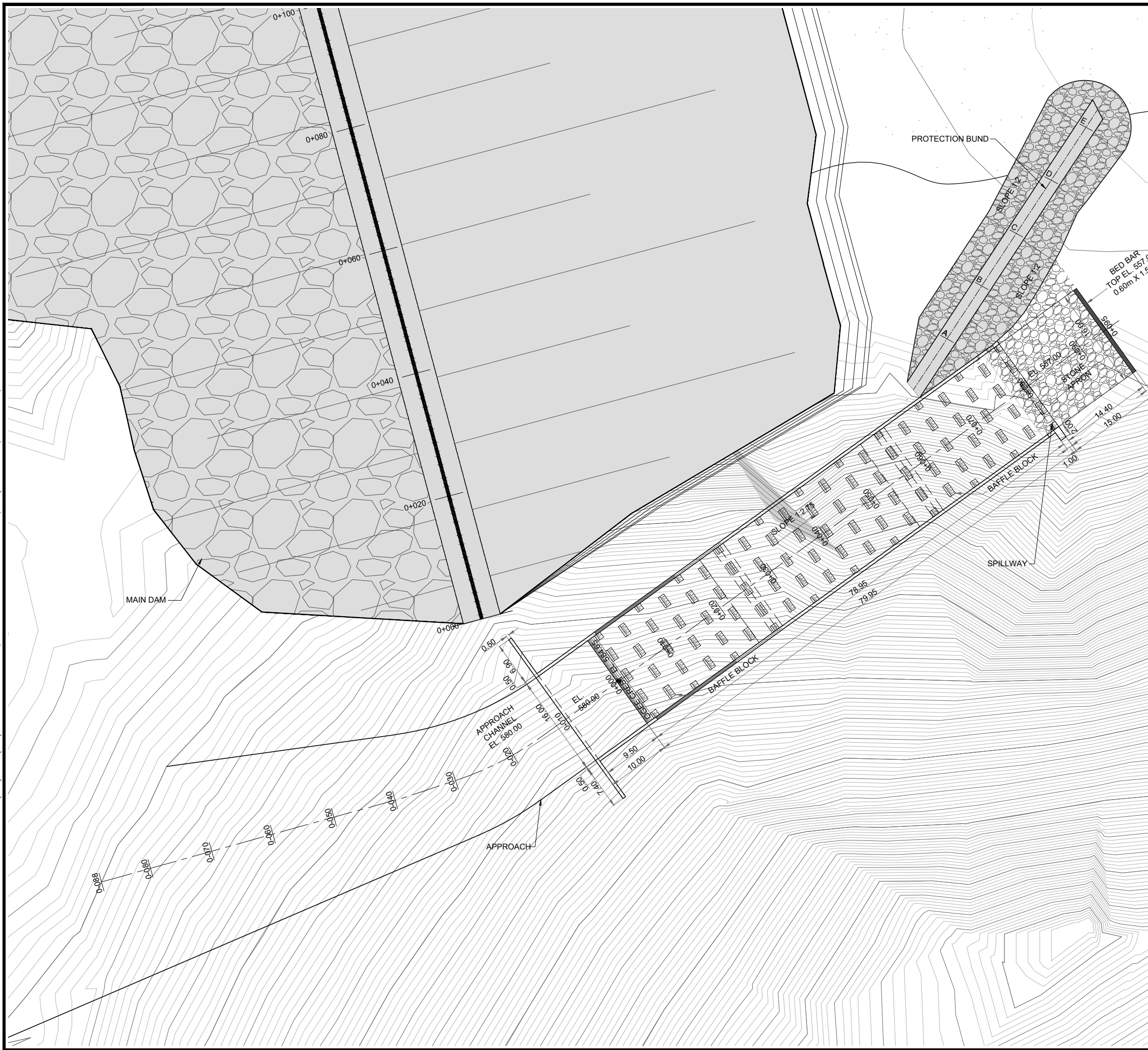
TITLE:

MAIN DAM GROUTING PROFILE

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:- GHD-BD-MD-05		SHEET:-2 OF 2		SUB SH:-	

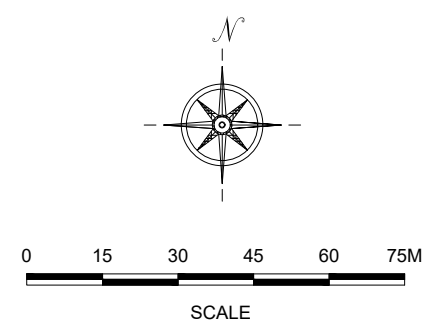


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NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

- SPILLWAY PLAN & PROFILE GHD-BD-SP-02
- SPILLWAY CROSS SECTIONS GHD-BD-SP-04

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASC** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMC** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

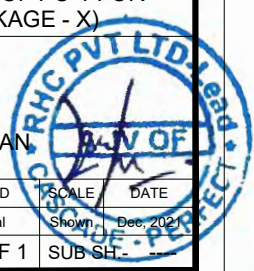
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

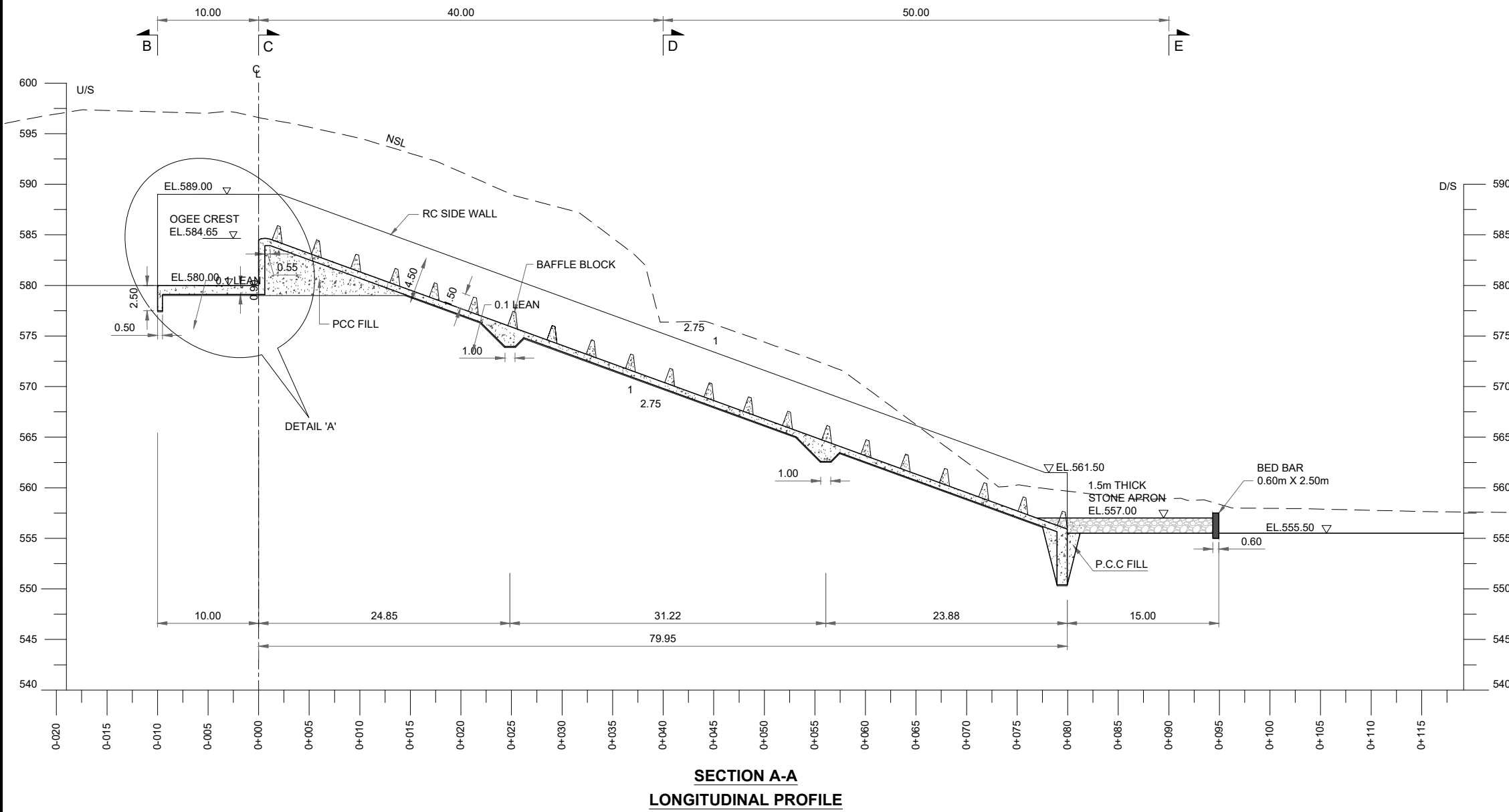
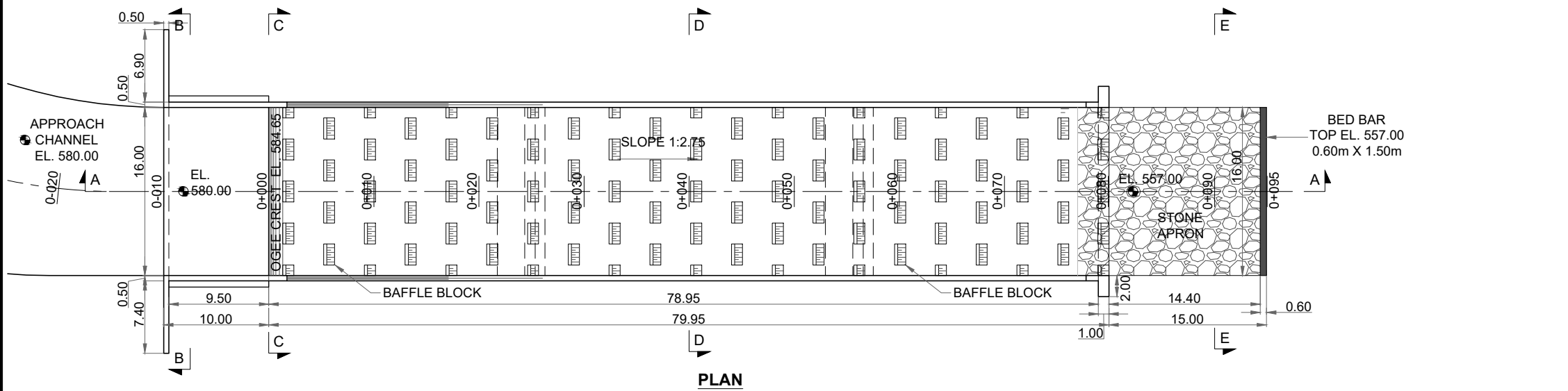
GHOZHEZAI DAM
T.S.D TANK
SPILLWAY LAYOUT PLAN

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2022

DRG.No:- GHD-BD-SP-01 SHEET:- 1 OF 1 SUB SH.



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NOTES:-
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REFERENCE DRAWINGS :-
SPILLWAY LAYOUT PLAN GHD-BD-SP-01
SPILLWAY CROSS SECTIONS GHD-BD-SP-04

DRAWING IS RELEASED
 FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

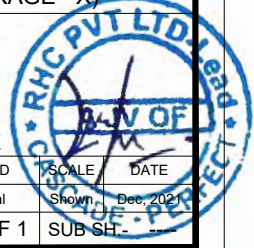
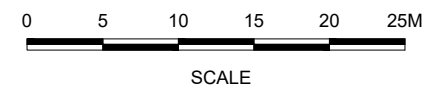
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

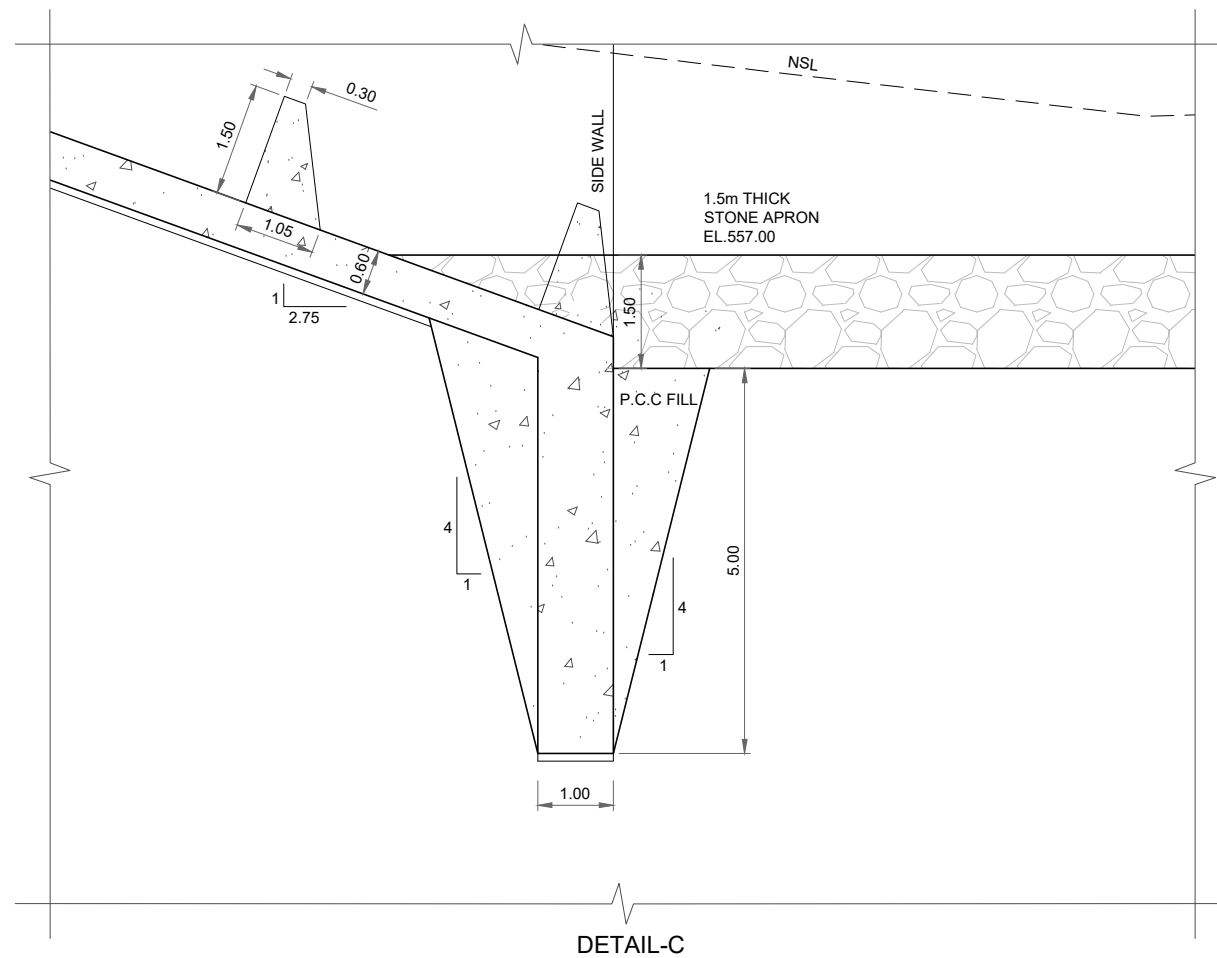
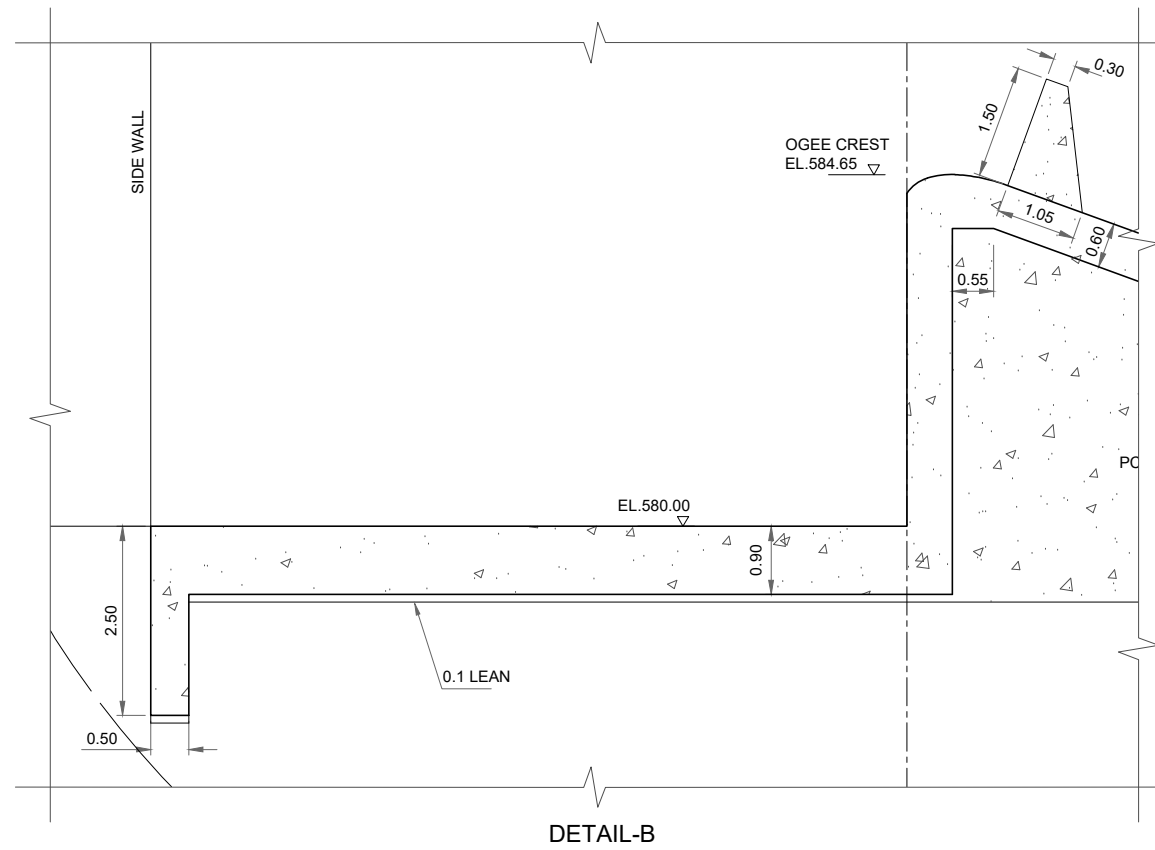
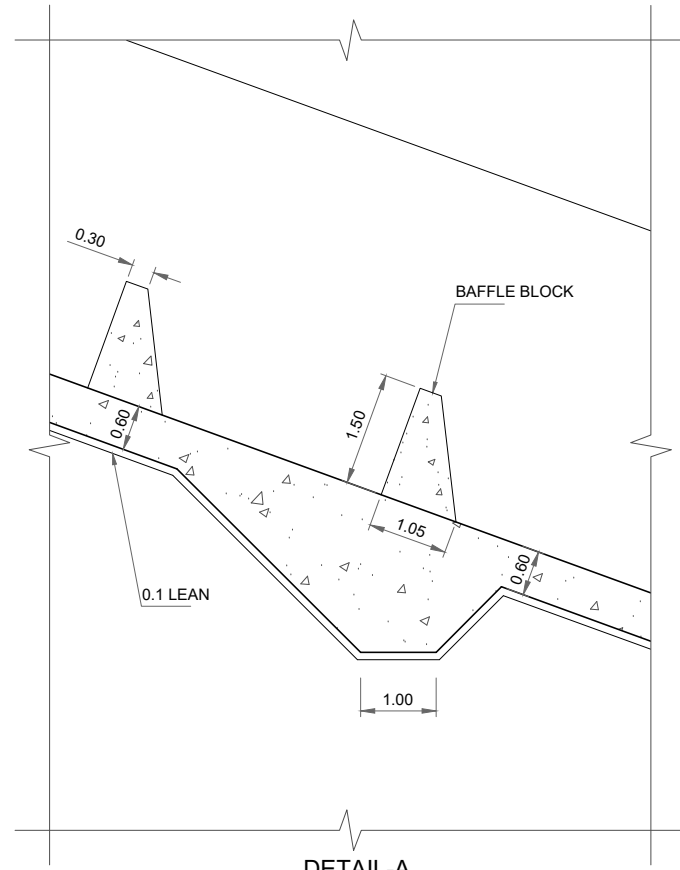
TITLE:
GHOZHEZAI DAM
T.S.D TANK
SPILLWAY
PLAN AND PROFILE

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021

DRG.No:- GHD-BD-SP-02 SHEET:- 1 OF 1 SUB SH-



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REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

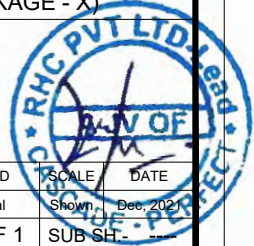
- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCAD** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMG** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

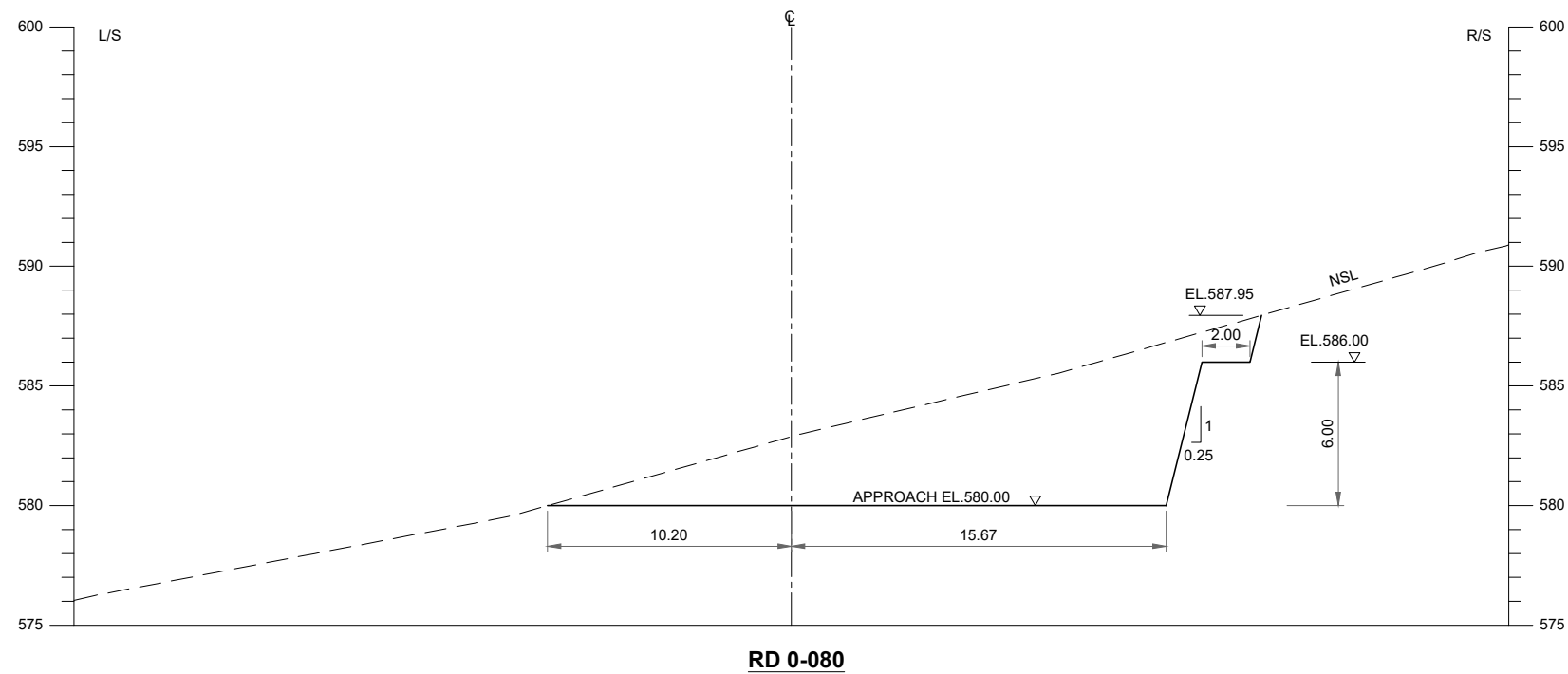
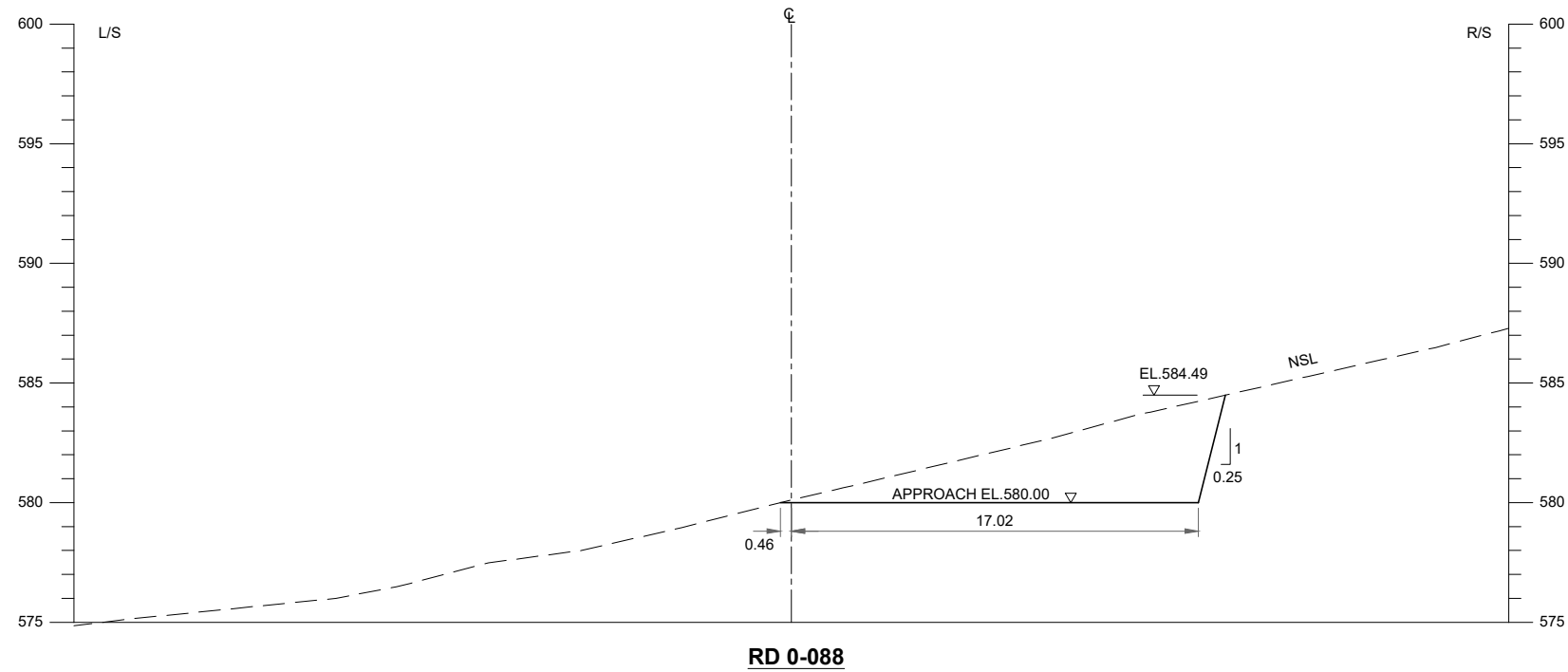
TITLE:
GHOZHEZAI DAM
T.S.D TANK
SPILLWAY
DETAILS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2022

DRG.No:- GHD-BD-SP-03 SHEET:- 1 OF 1 SUB SH-

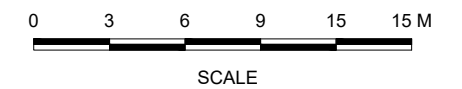


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NOTES:-

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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
 SPILLWAY PLAN & PROFILE GHD-BD-SP-02



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PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

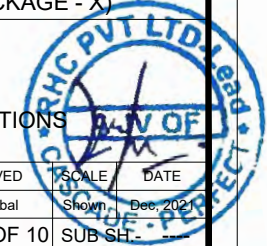
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
 T.S.D TANK

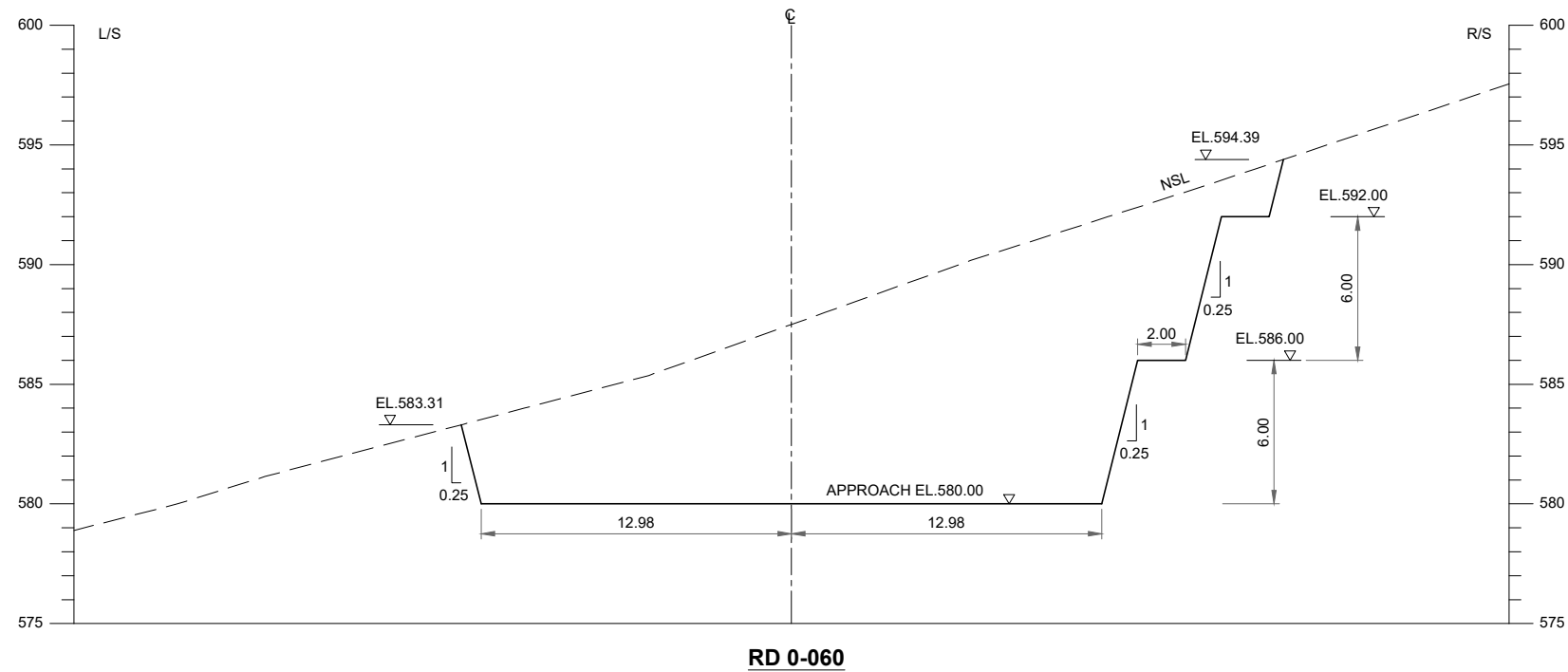
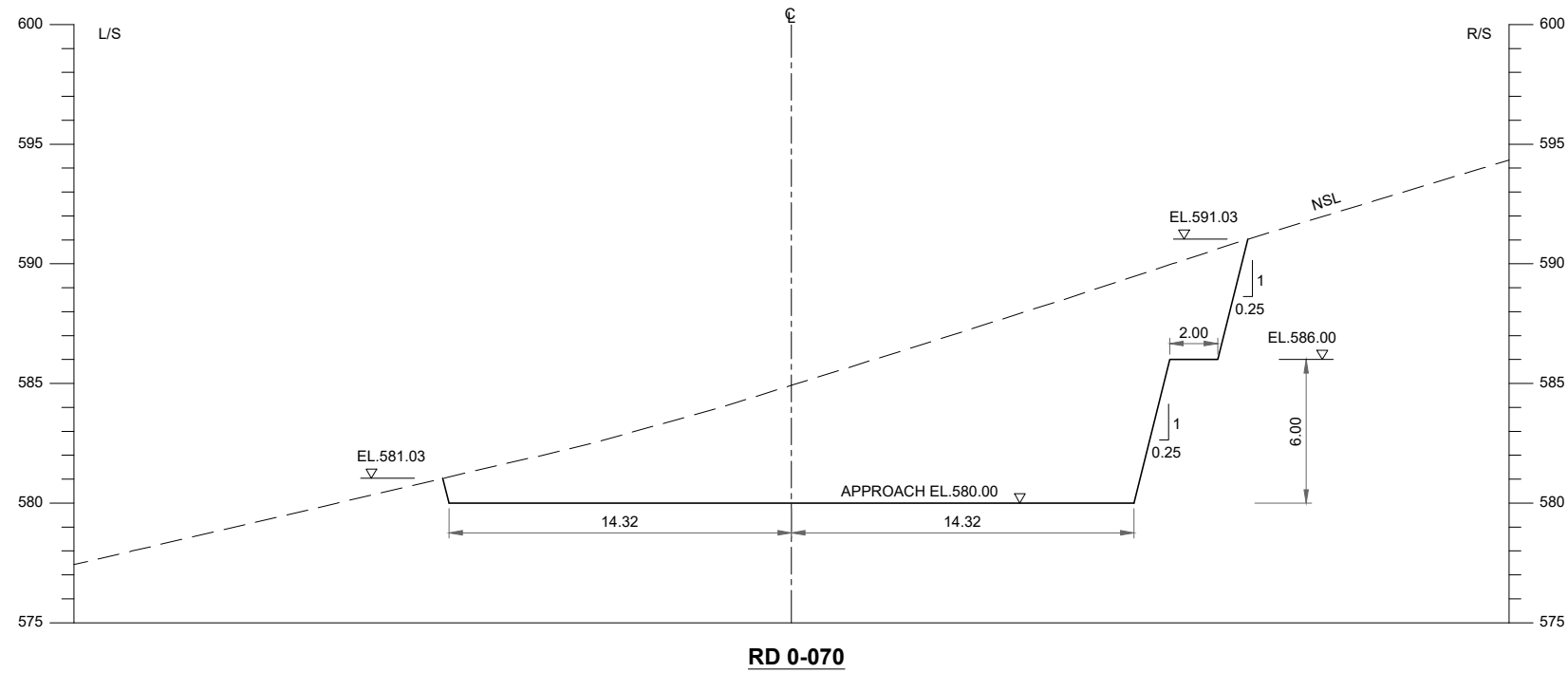
TITLE: SPILLWAY CROSS SECTIONS
 EXCAVATION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-SP-04 SHEET:- 1 OF 10 SUB SHEET:-

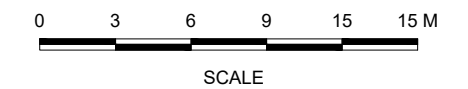


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NOTES:-

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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
 SPILLWAY PLAN & PROFILE GHD-BD-SP-02



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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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

PROJECT:

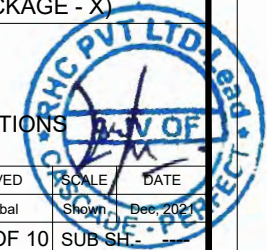
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
 T.S.D TANK

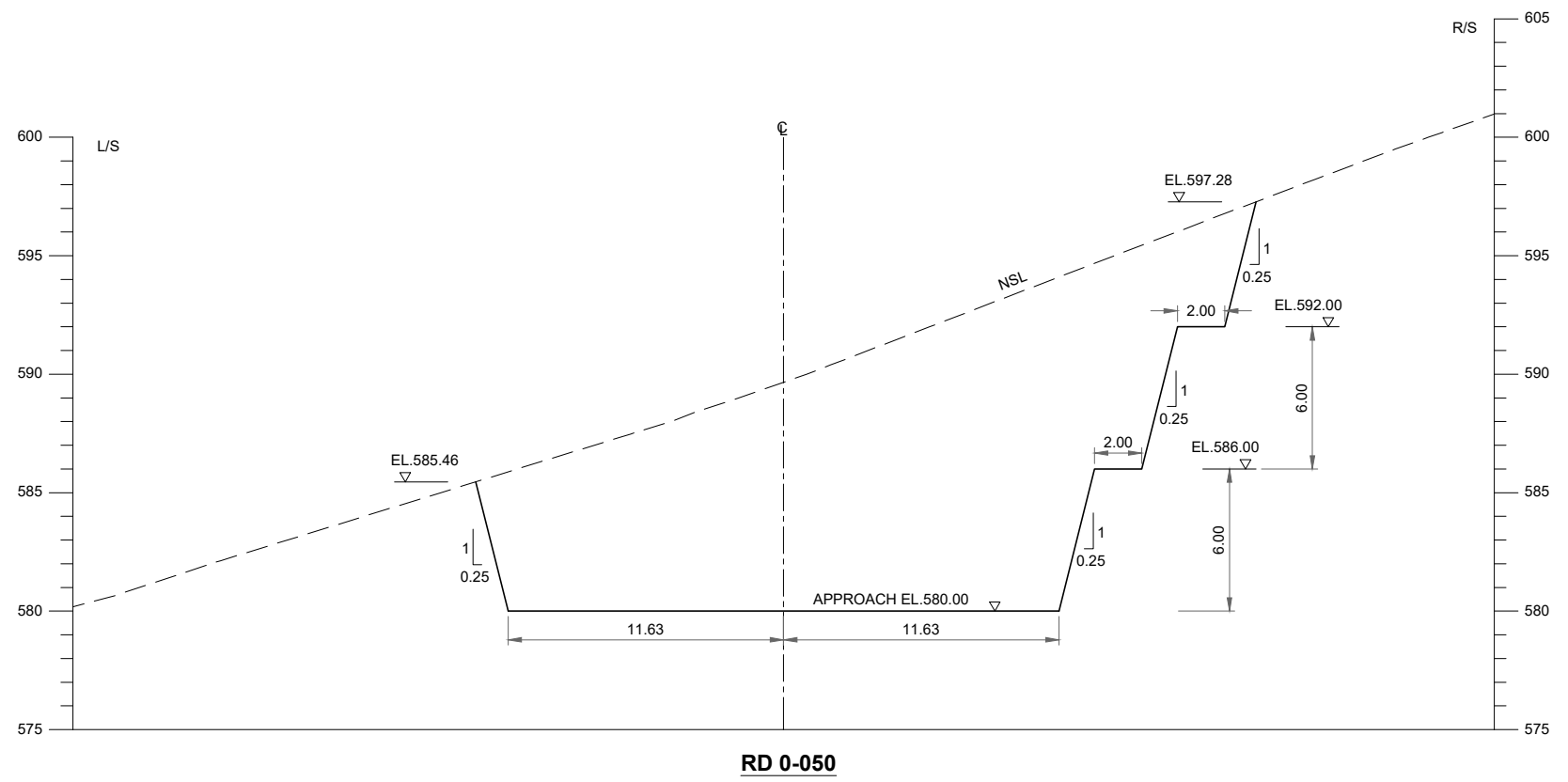
TITLE: SPILLWAY CROSS SECTIONS
 EXCAVATION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

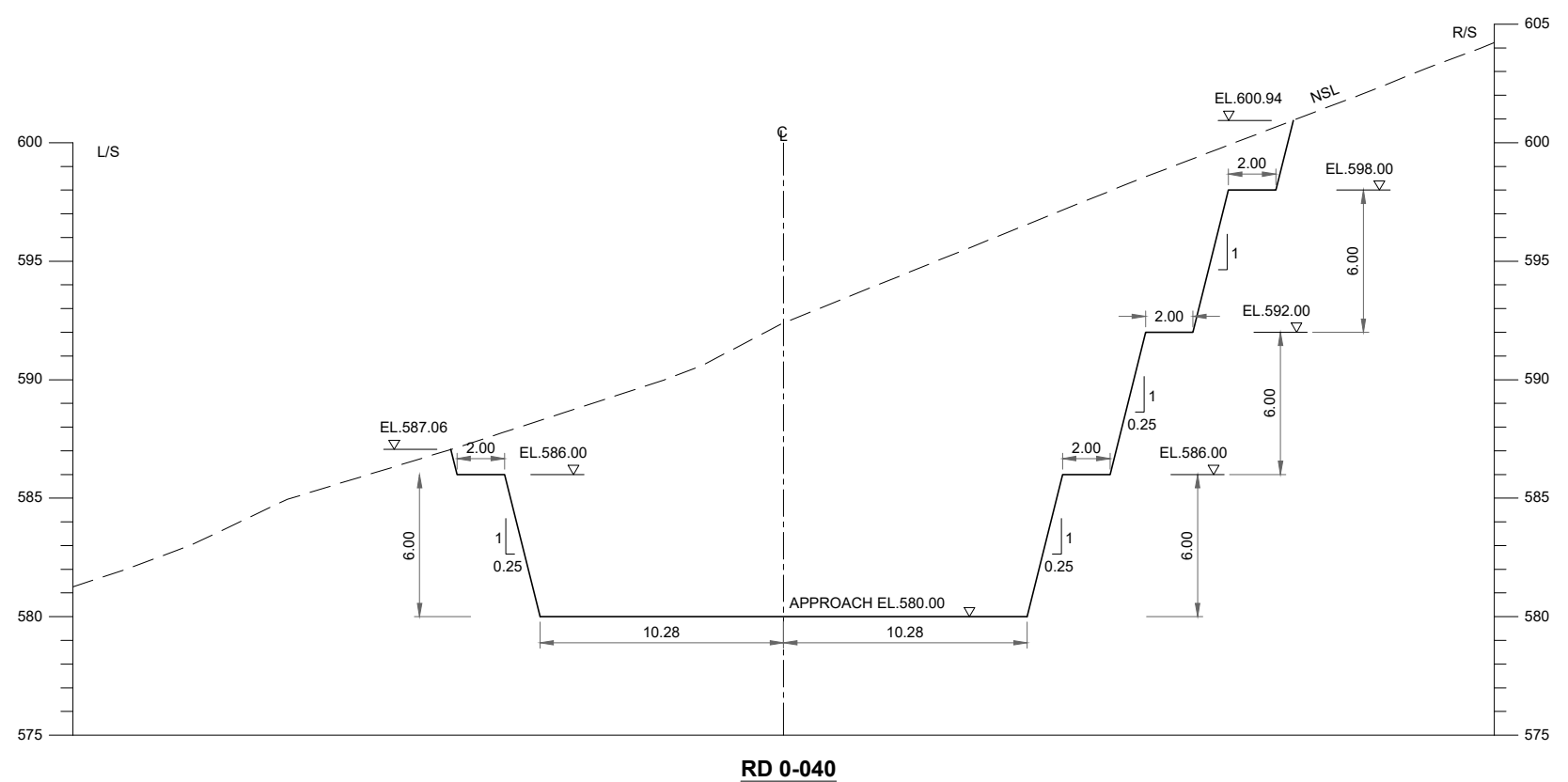
DRG.No:- GHD-BD-SP-04 SHEET:-2 OF 10 SUB SHEET:-



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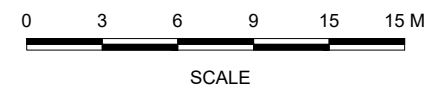
RD 0-050



RD 0-040

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
SPILLWAY PLAN & PROFILE GHD-BD-SP-02

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PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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- PEMC** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

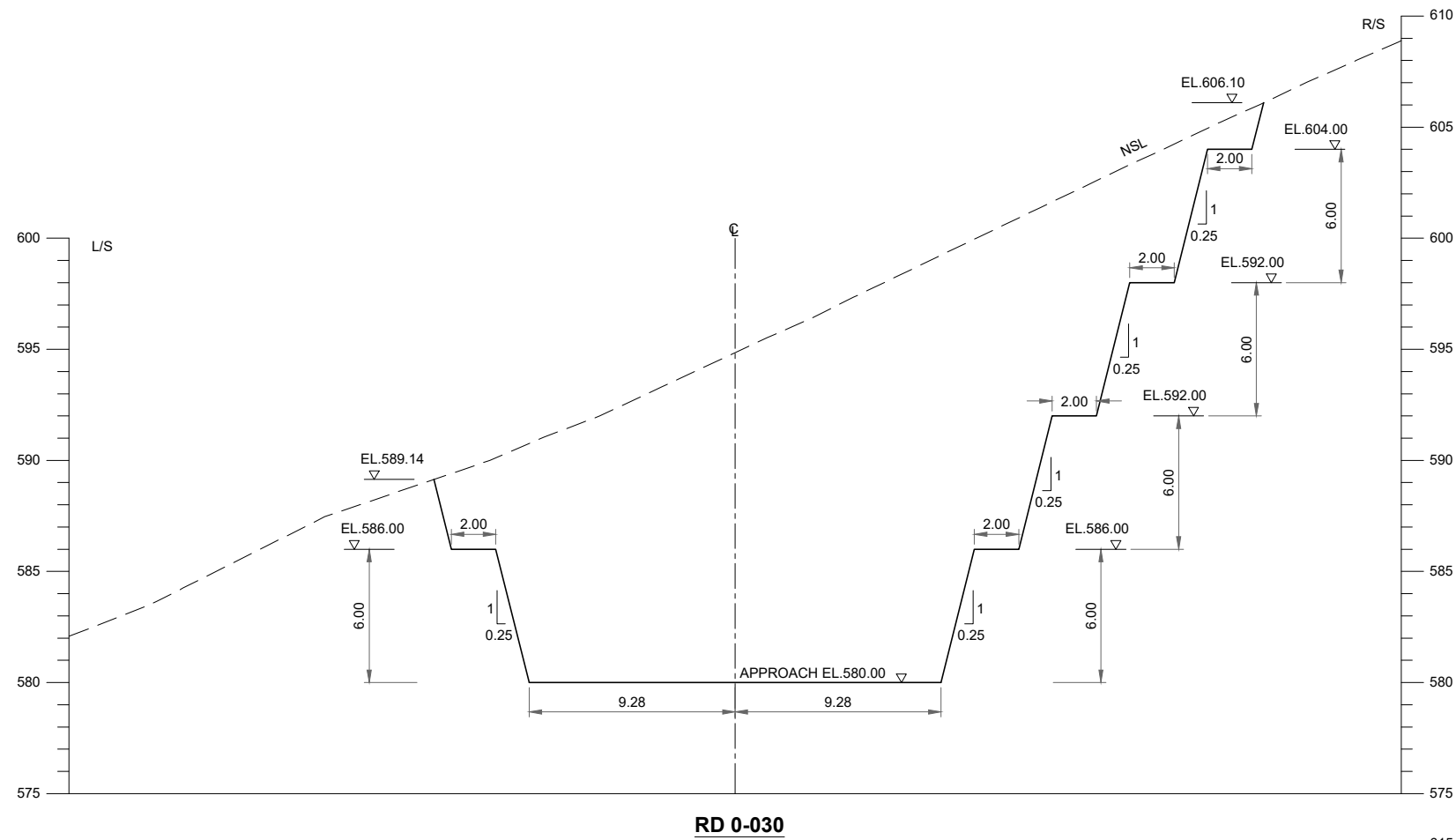
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK
TITLE: **SPILLWAY CROSS SECTIONS
EXCAVATION**

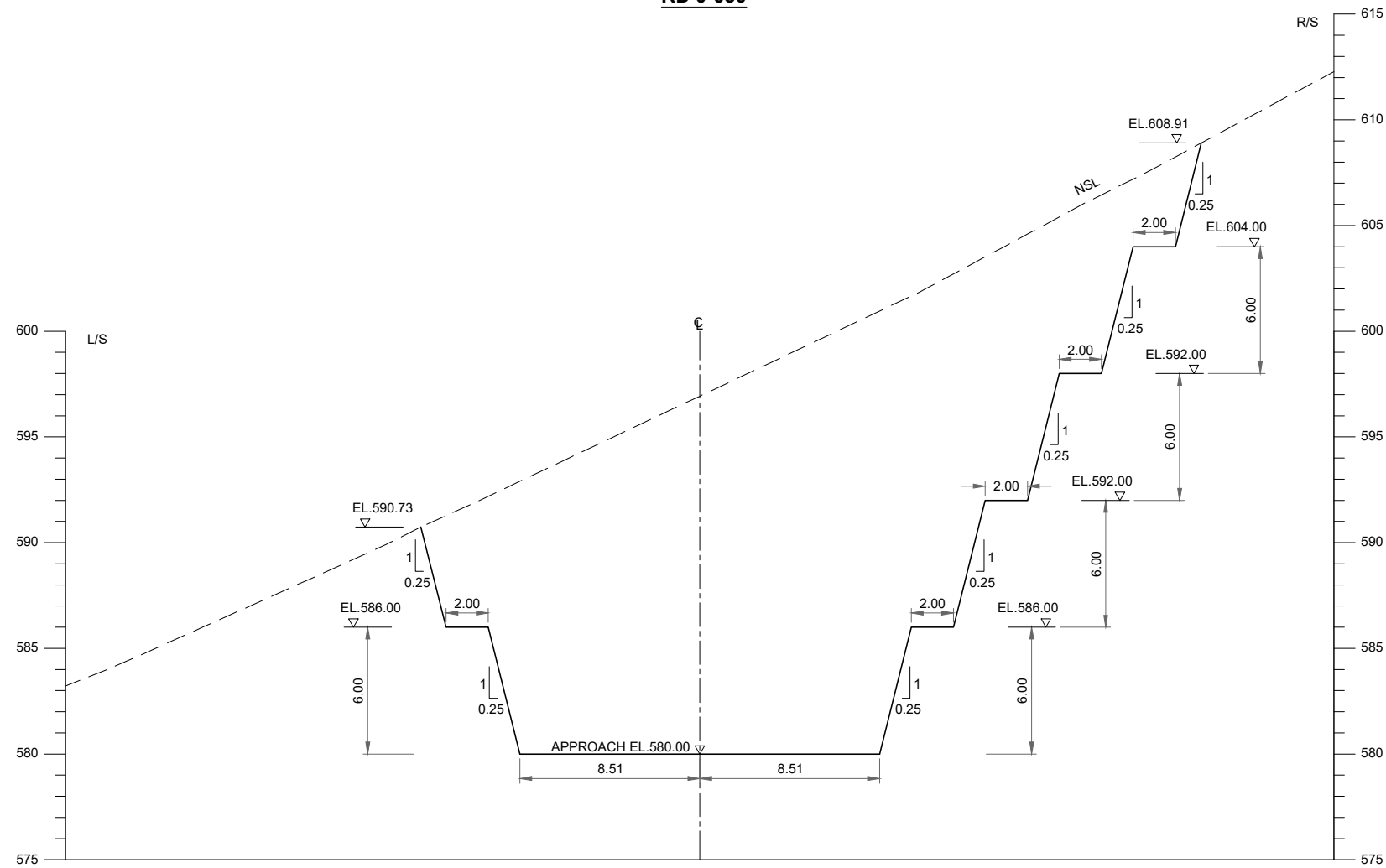
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2021
DRG.No:- GHD-BD-SP-04		SHEET:-3 OF 10		SUB SH-	



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RD 0-030



RD 0-020

NOTES:-

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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
 SPILLWAY PLAN & PROFILE GHD-BD-SP-02

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CLIENT:

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- CASCADE GROUP**
 OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING &**
 MANAGEMENT CONSULTANTS

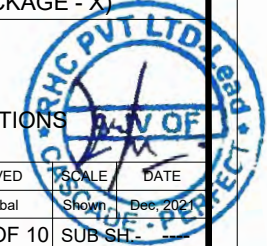
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CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

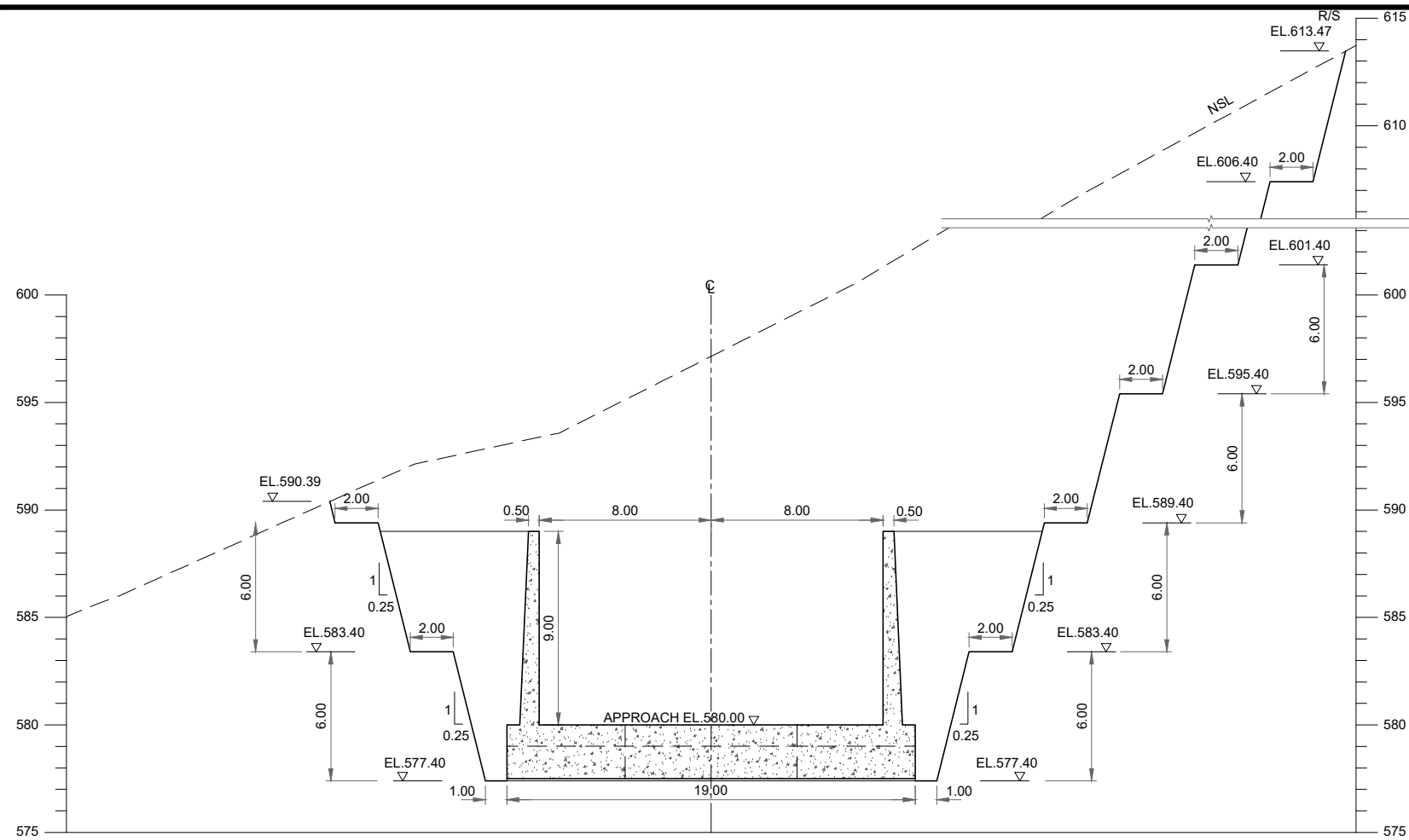
GHOZHEZAI DAM
 T.S.D TANK
 TITLE: SPILLWAY CROSS SECTIONS
 EXCAVATION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

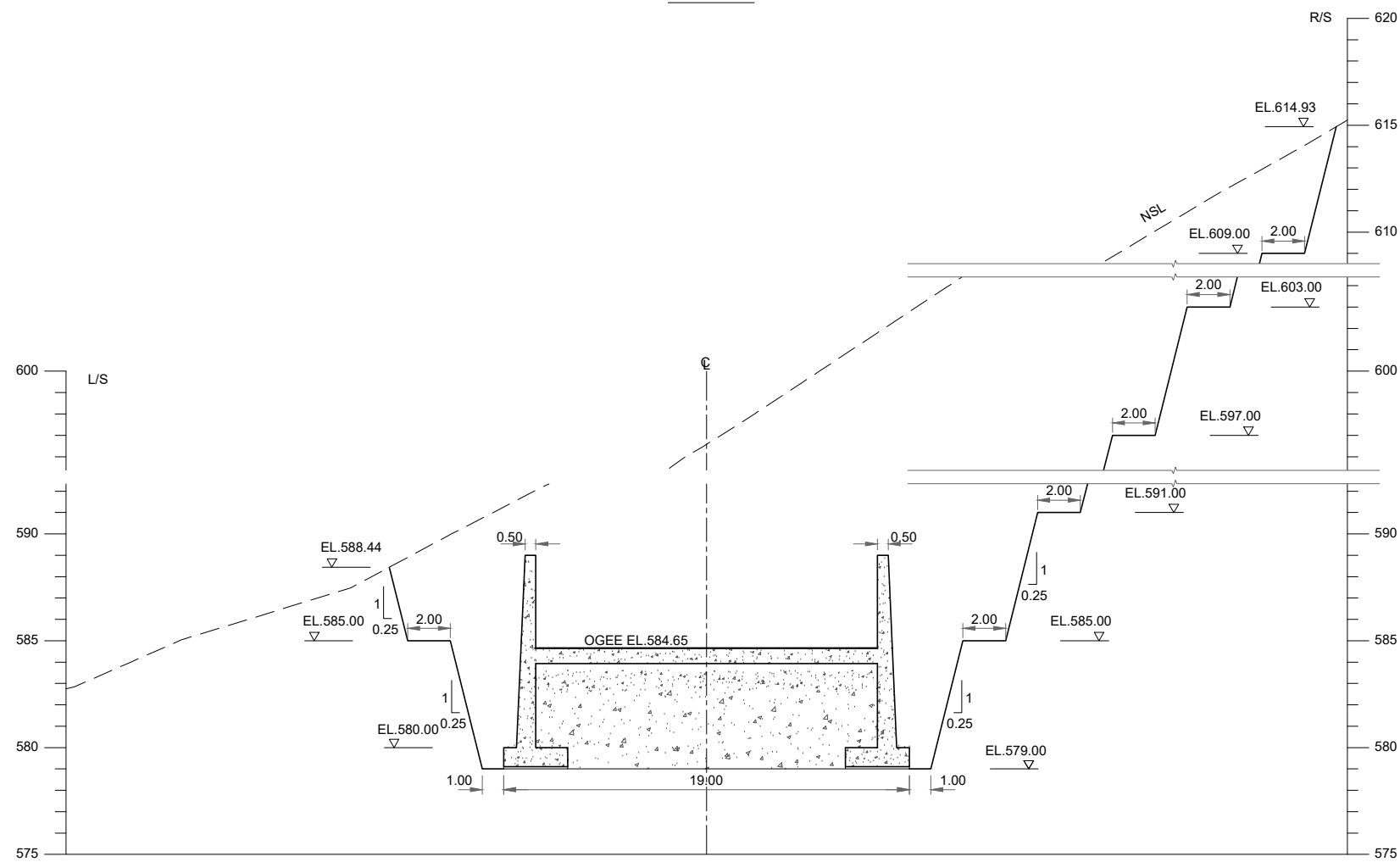
DRG.No:- GHD-BD-SP-04 SHEET:-4 OF 10 SUB SH-



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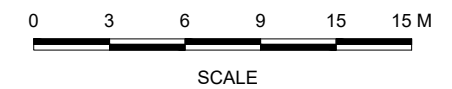
RD 0-010



RD 0+000

NOTES:-

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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
SPILLWAY PLAN & PROFILE GHD-BD-SP-02

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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

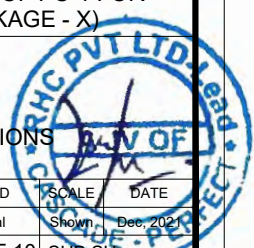
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CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

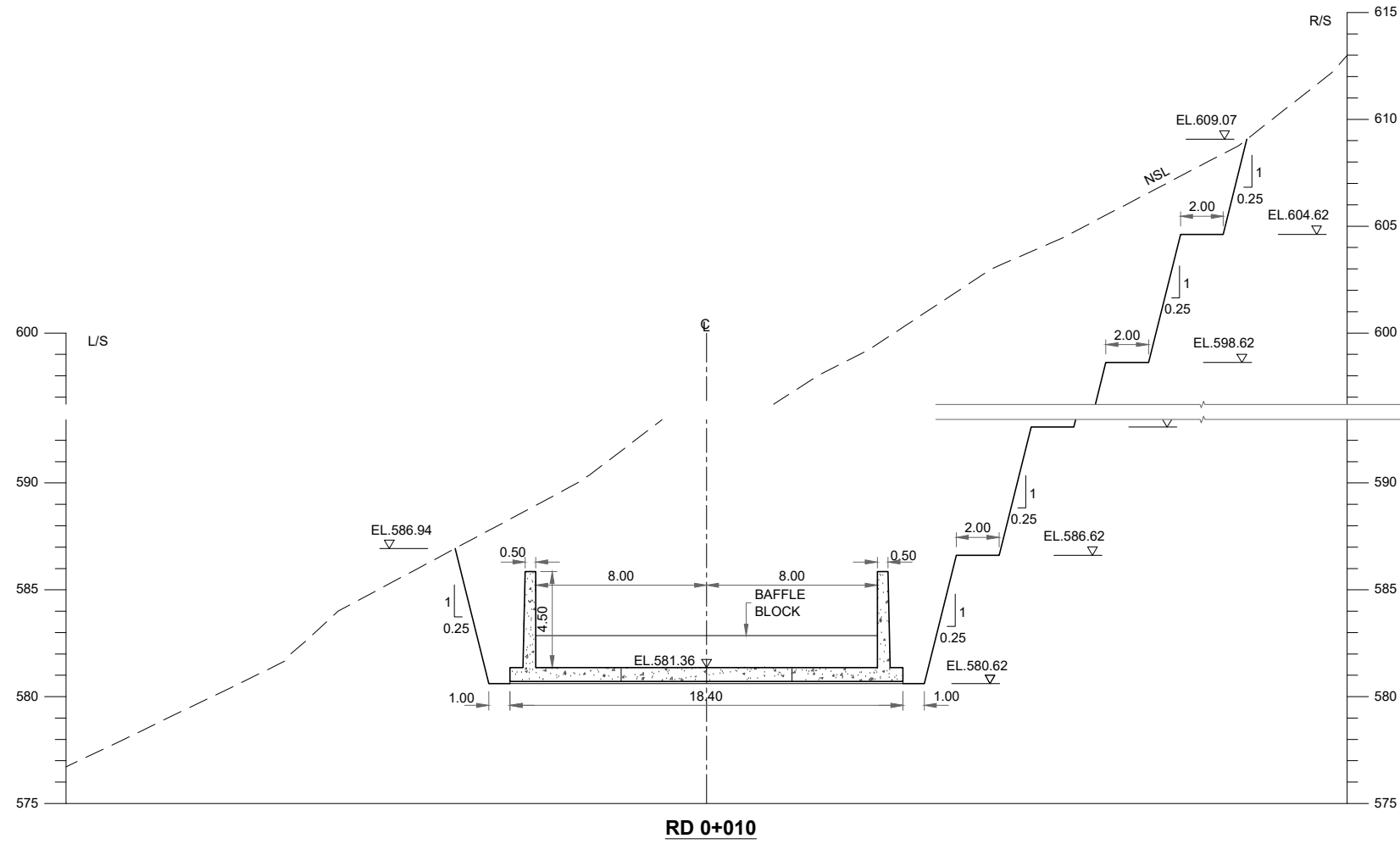
GHOZHEZAI DAM
T.S.D TANK
TITLE: **SPILLWAY CROSS SECTIONS
EXCAVATION**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal		Shown, Dec, 2021

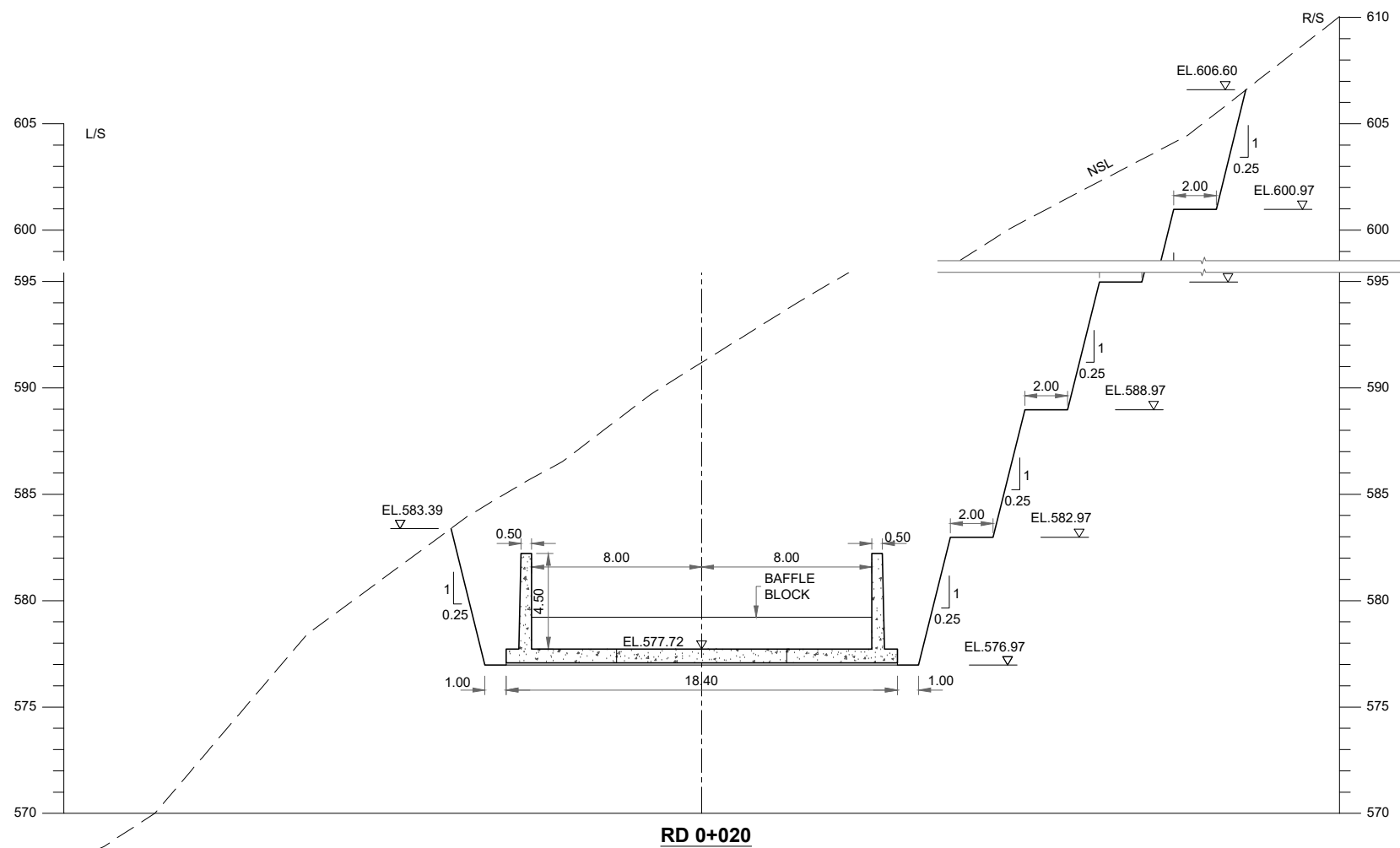
DRG.No:- GHD-BD-SP-04 SHEET:-5 OF 10 SUB SH-



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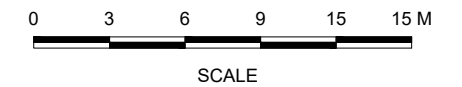
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RD 0+020

NOTES:-

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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
SPILLWAY PLAN & PROFILE GHD-BD-SP-02

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

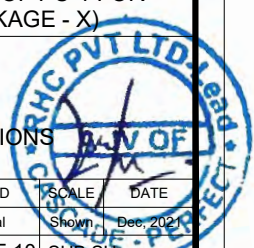
PEMC PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

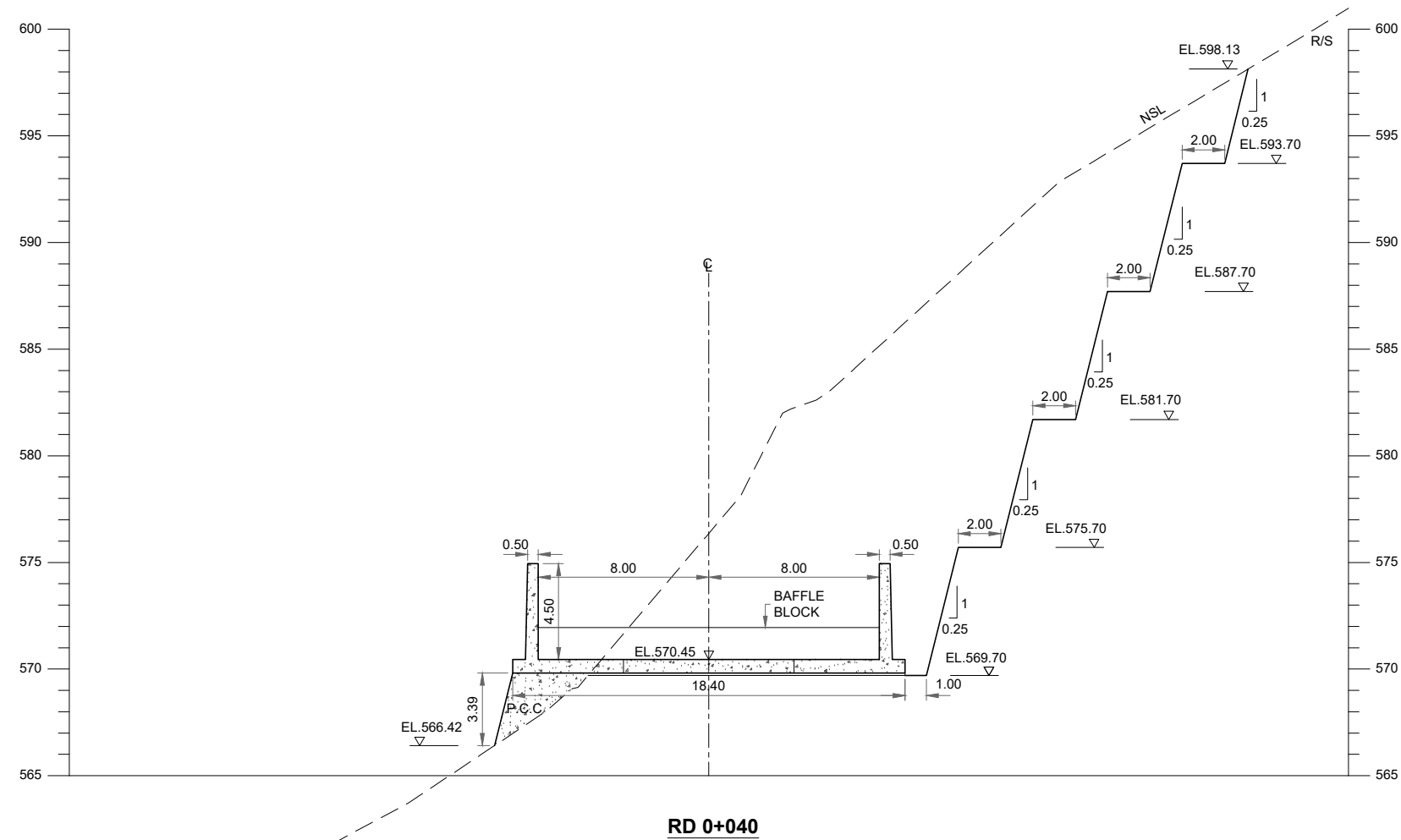
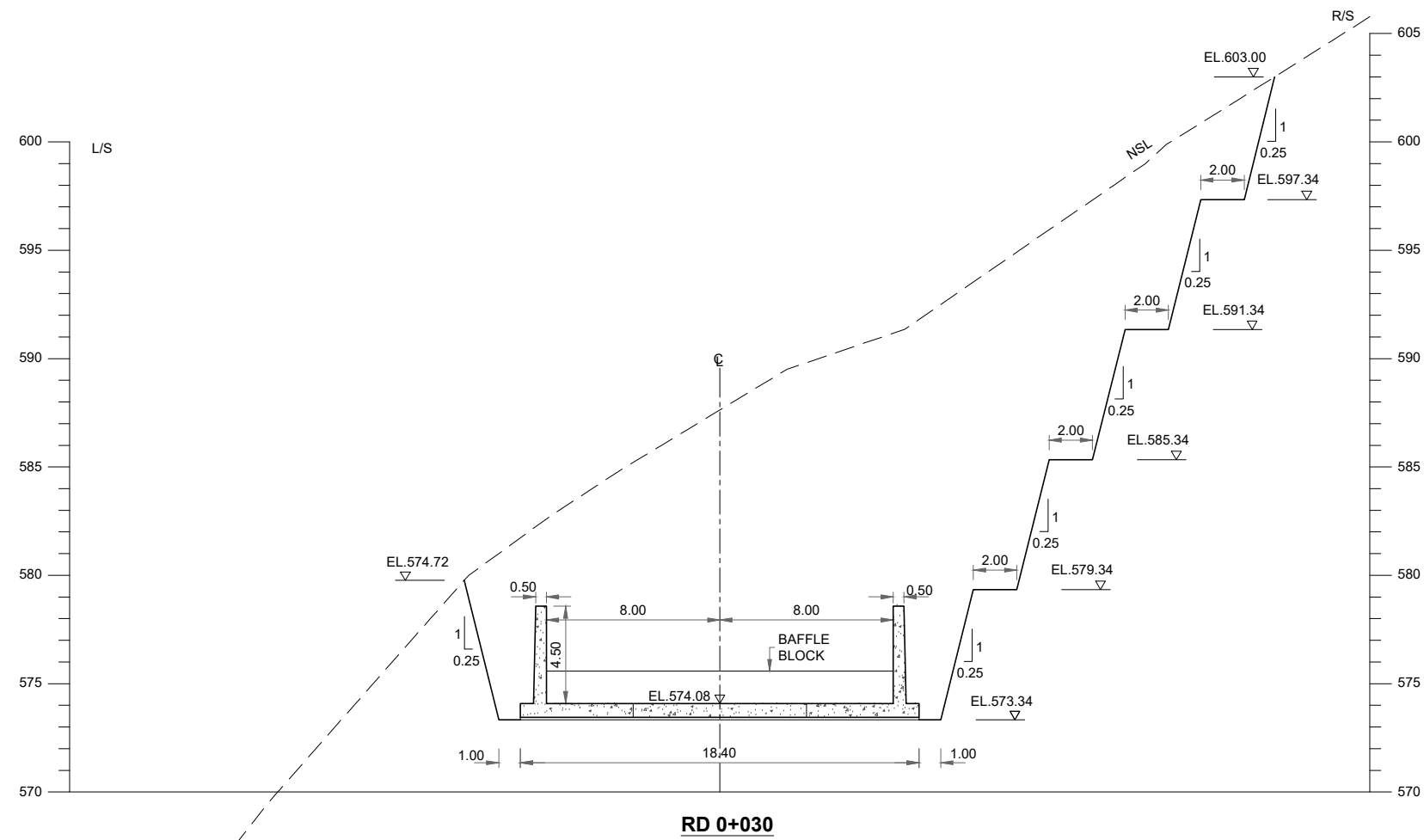
GHOZHEZAI DAM
T.S.D TANK
TITLE: SPILLWAY CROSS SECTIONS
EXCAVATION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-SP-04 SHEET:-6 OF 10 SUB SHEET:-

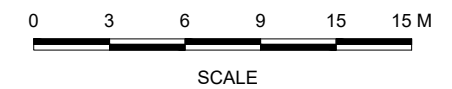


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NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
 SPILLWAY PLAN & PROFILE GHD-BD-SP-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- C** CASCADE GROUP
 OF ENGINEERING & CONSULTANTS
- PEMC** PERFECT ENGINEERING &
 MANAGEMENT CONSULTANTS

PROJECT:

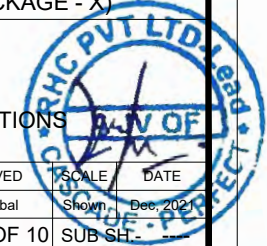
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
 T.S.D TANK**

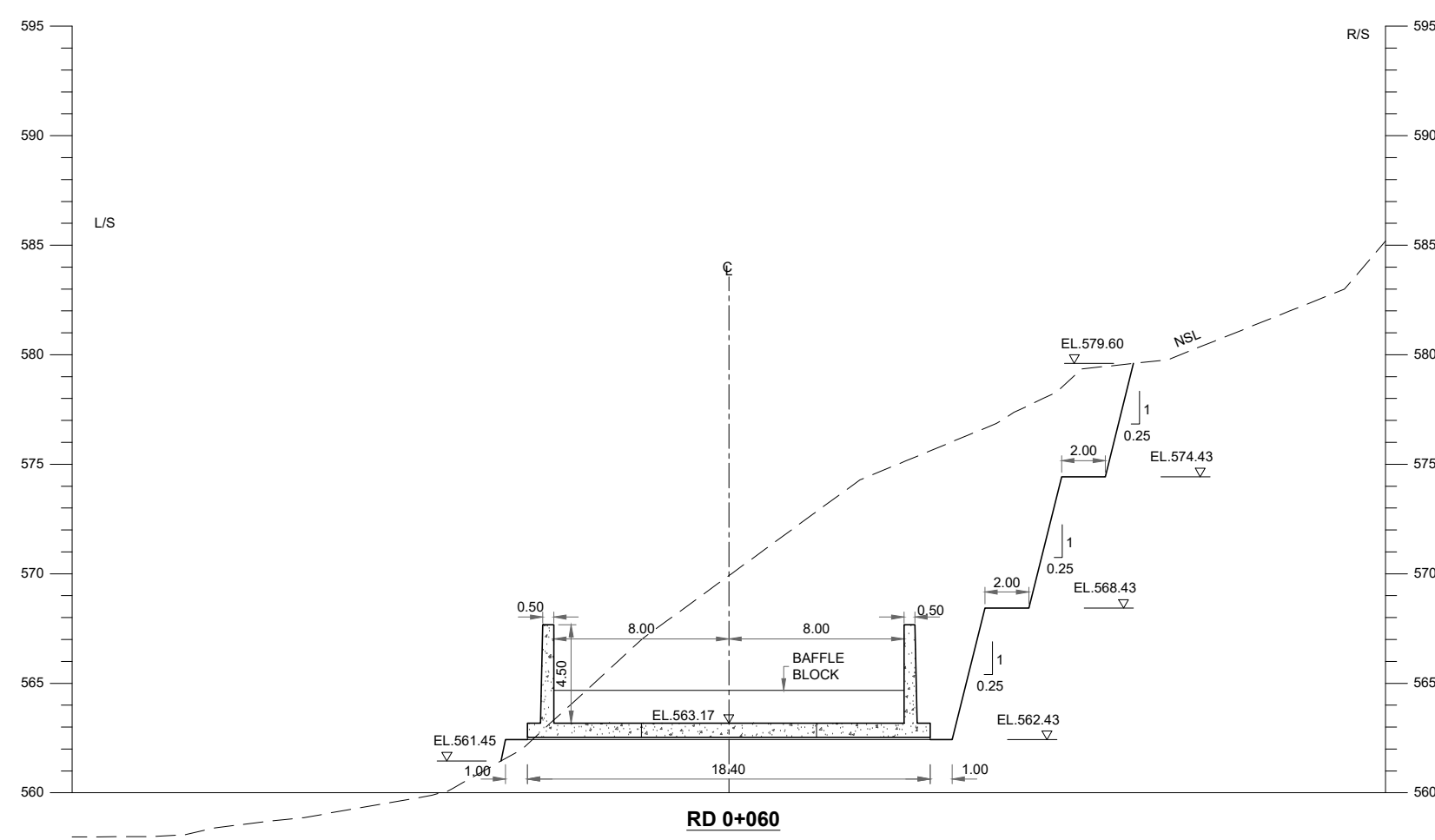
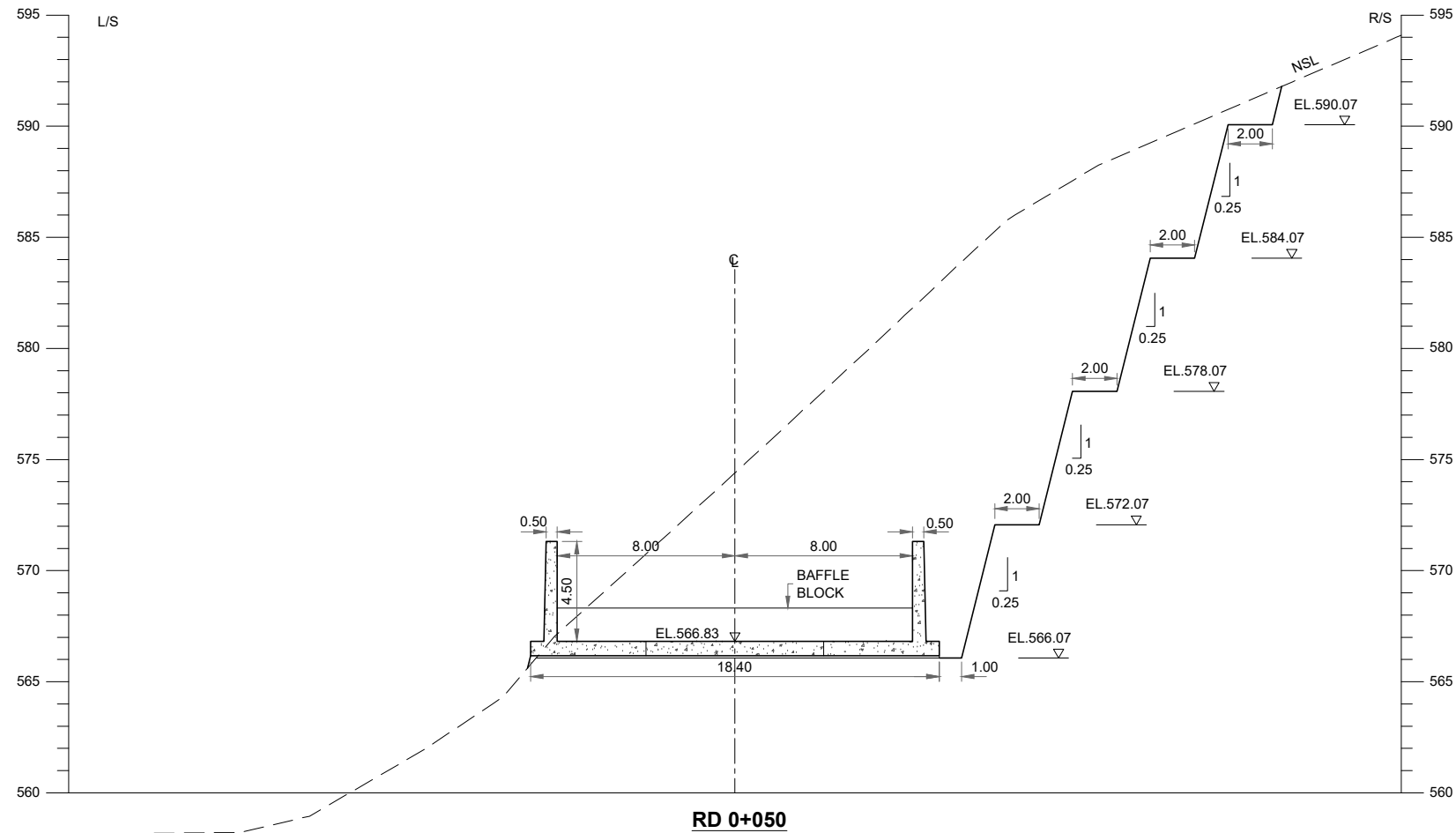
TITLE: **SPILLWAY CROSS SECTIONS
 EXCAVATION**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-SP-04 SHEET:-7 OF 10 SUB SHEET:-

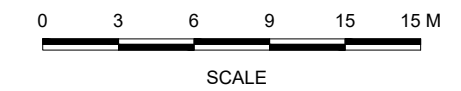


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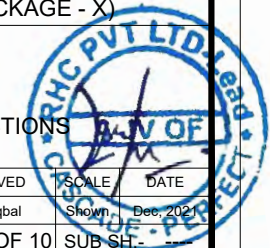


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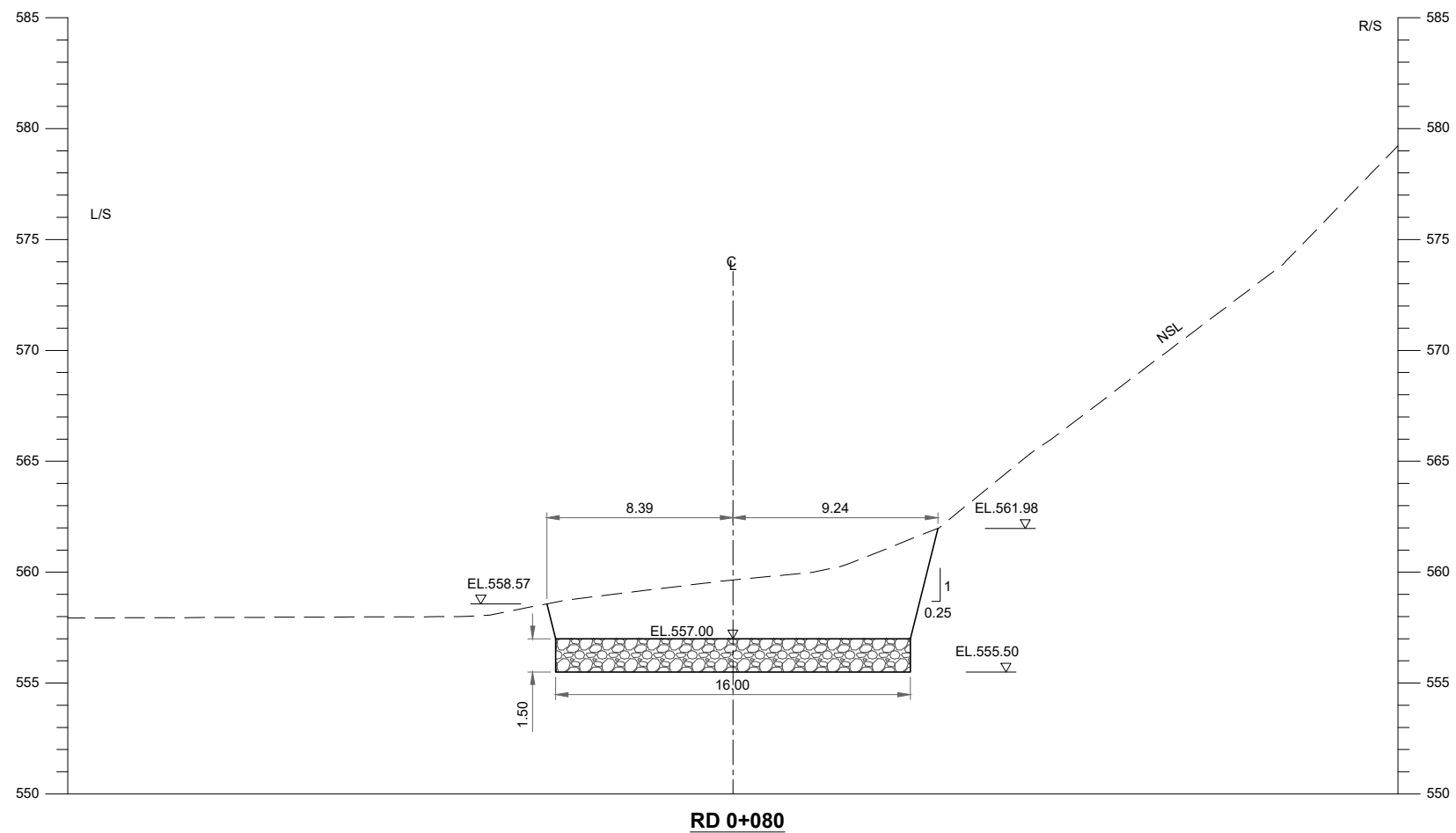
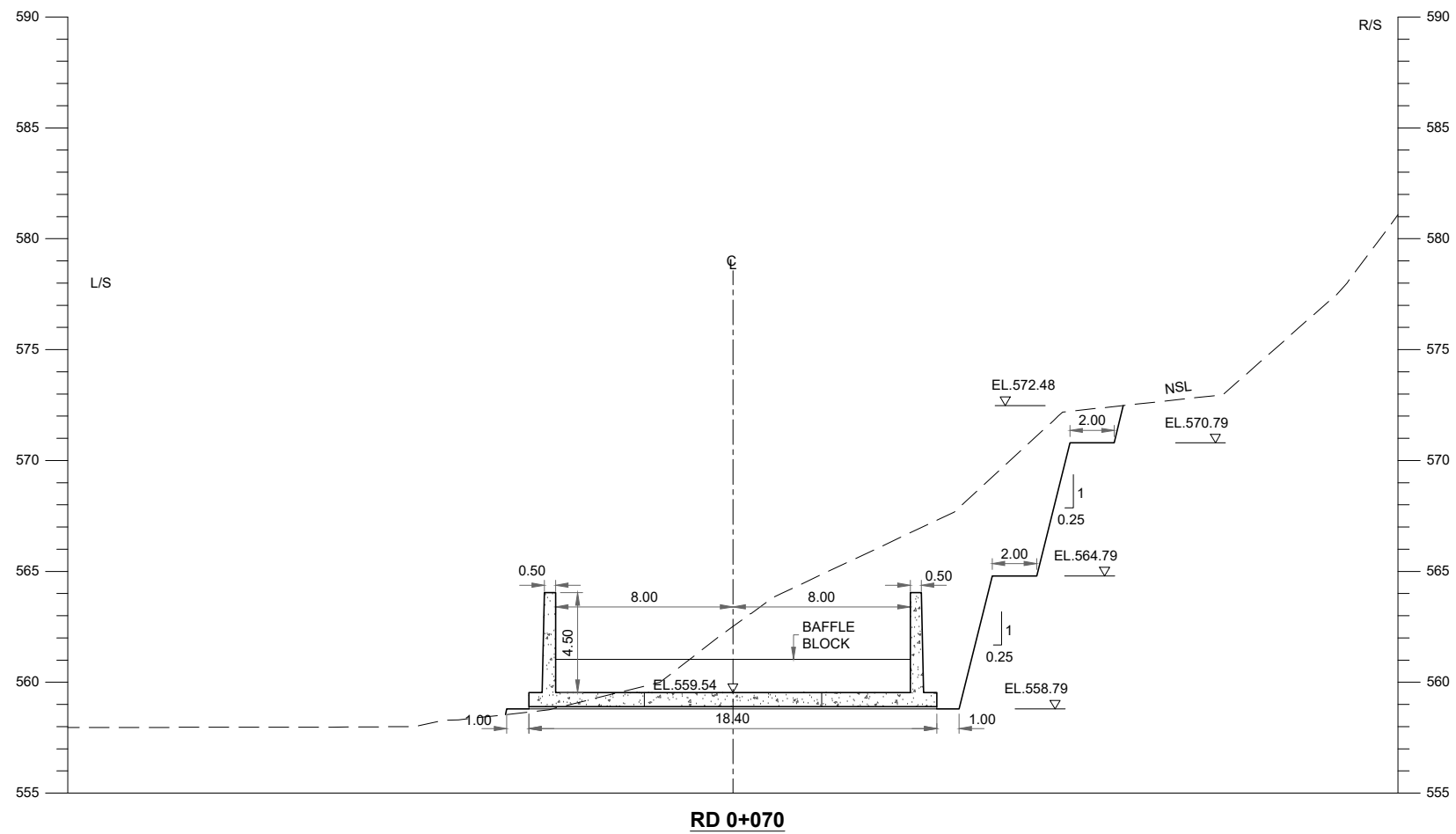
1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-					
SPILLWAY LAYOUT PLAN GHD-BD-SP-01					
SPILLWAY PLAN & PROFILE GHD-BD-SP-02					
DRAWING IS RELEASED					
<input checked="" type="checkbox"/> FOR BIDDING ONLY					
CLIENT:					
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.					
CONSULTANTS:					
A J.V OF					
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.					
CASCADE GROUP OF ENGINEERING & CONSULTANTS					
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS					
PROJECT:					
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)					
GHOZHEZAI DAM T.S.D TANK					
TITLE: SPILLWAY CROSS SECTIONS EXCAVATION					
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	DATE	
DRG.No:- GHD-BD-SP-04				SHEET:-8 OF 10	SUB SH.

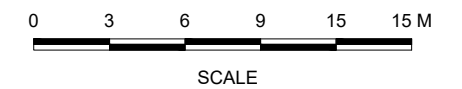


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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
 SPILLWAY PLAN & PROFILE GHD-BD-SP-02

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
 IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMG** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

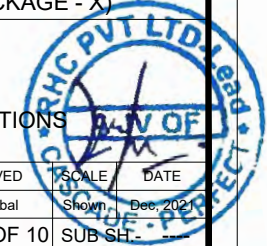
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
 DETAIL DESIGN & PREPARATION OF PC-1 FOR
 5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
 T.S.D TANK**

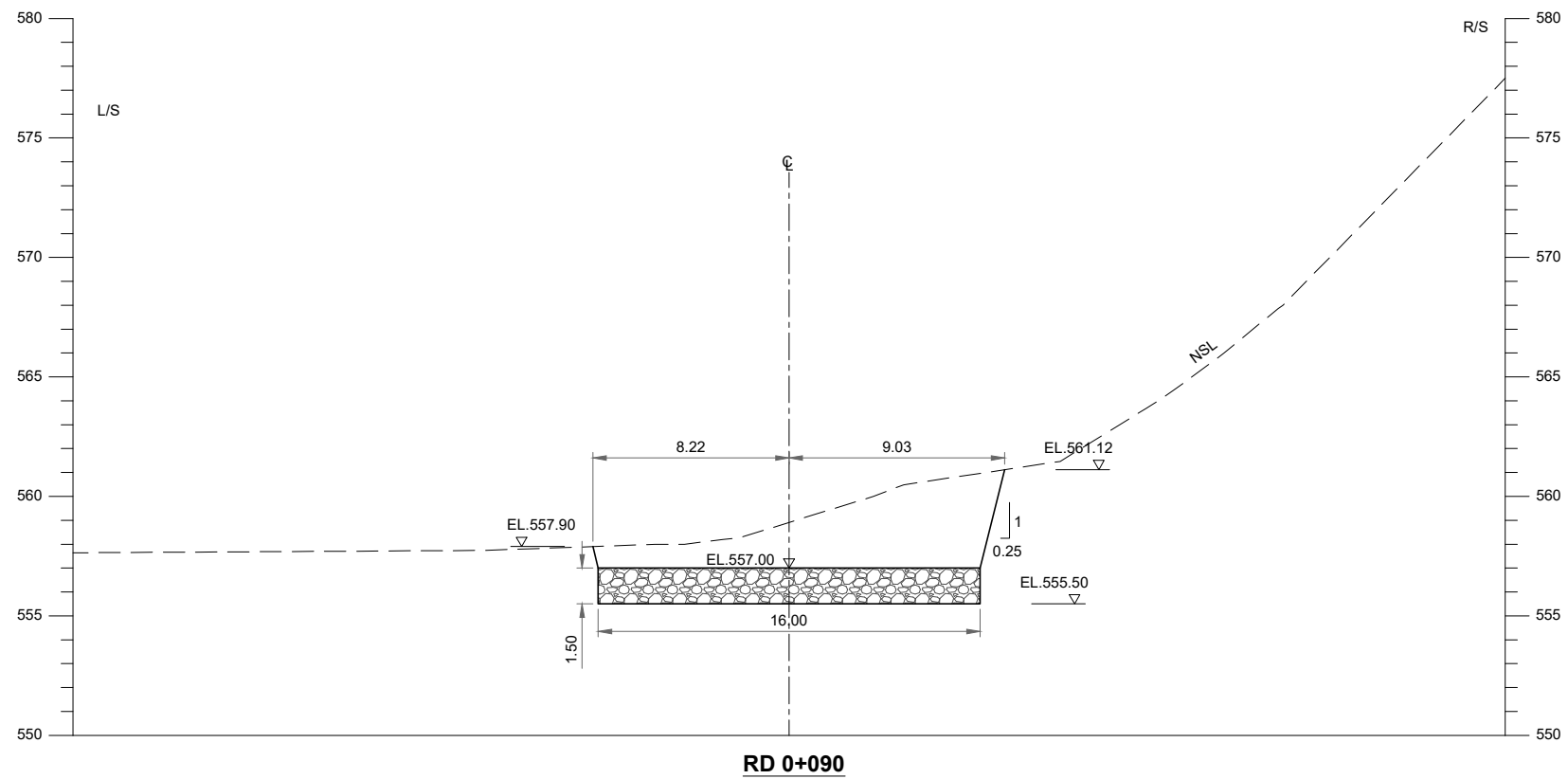
TITLE: **SPILLWAY CROSS SECTIONS
 EXCAVATION**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023

DRG.No:- GHD-BD-SP-04 SHEET:-9 OF 10 SUB SHEET:-

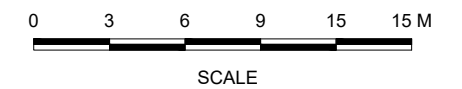


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REFERENCE DRAWINGS :-

SPILLWAY LAYOUT PLAN GHD-BD-SP-01
SPILLWAY PLAN & PROFILE GHD-BD-SP-02

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PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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CE CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PEMC PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

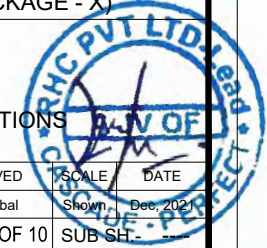
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

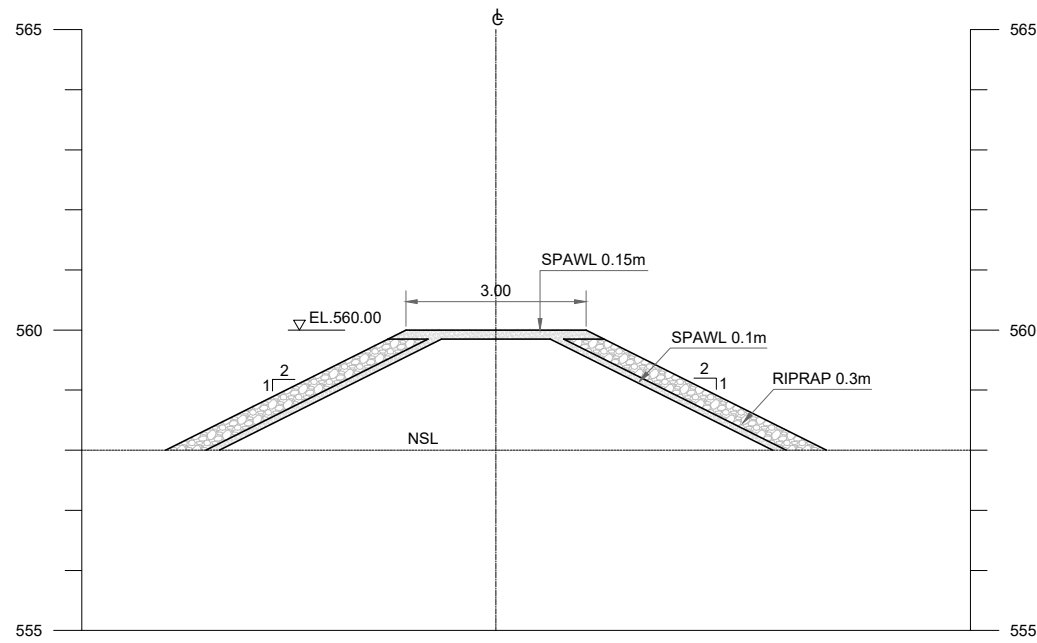
TITLE: SPILLWAY CROSS SECTIONS
EXCAVATION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal		Shown, Dec, 2023

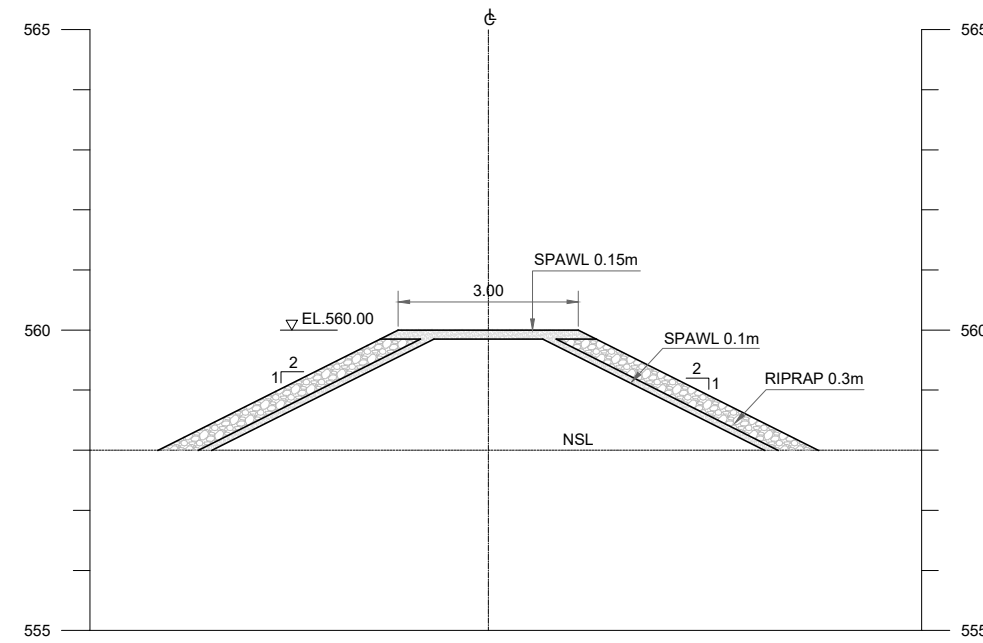
DRG.No:- GHD-BD-SP-04 SHEET:-10 OF 10 SUB SH:-



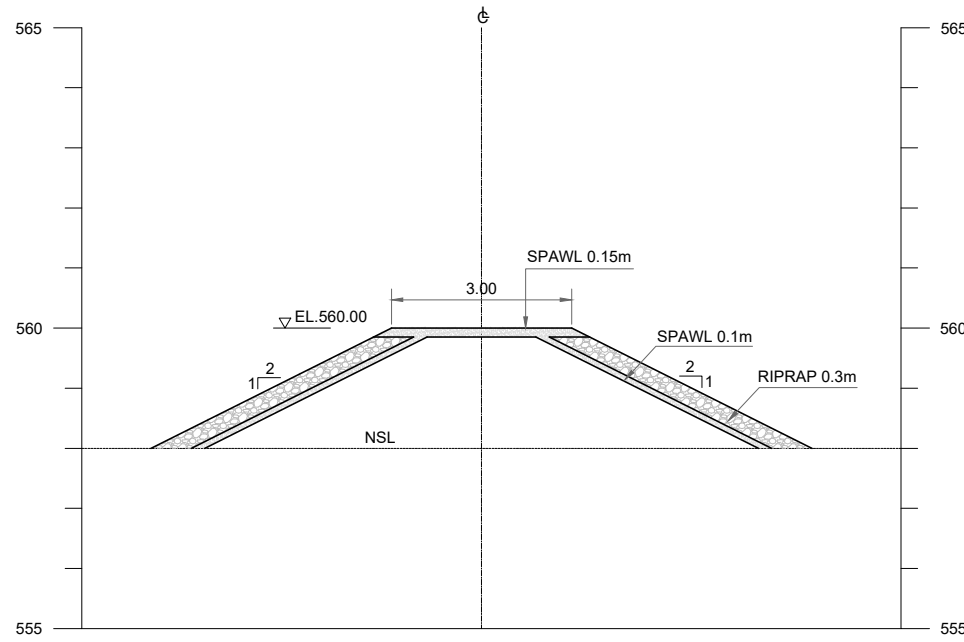
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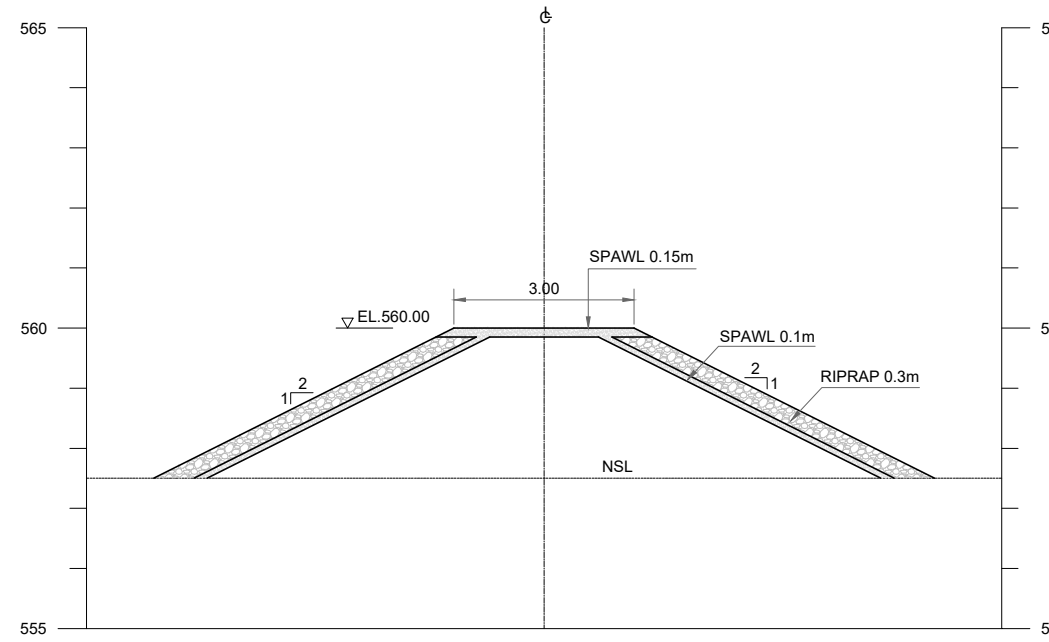
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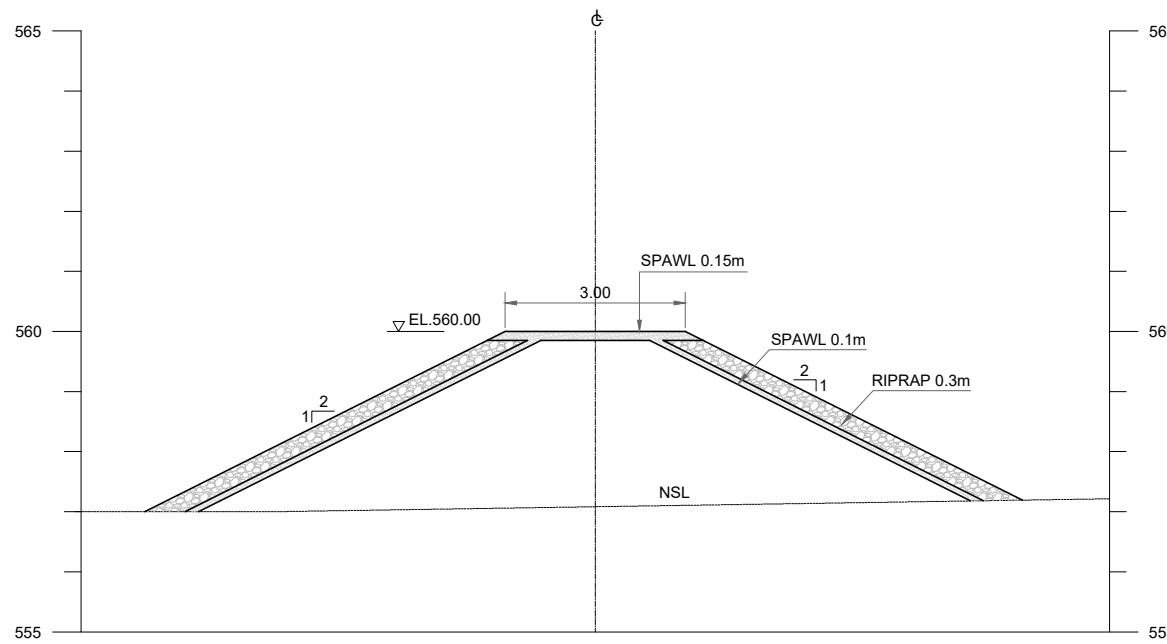
B-B



C-C



D-D



E-E

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

REFERENCE DRAWINGS :-

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

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- CASCADE GROUP**
OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING &**
MANAGEMENT CONSULTANTS

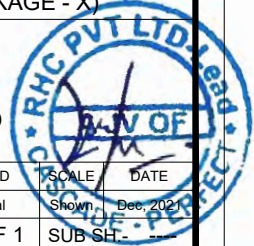
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

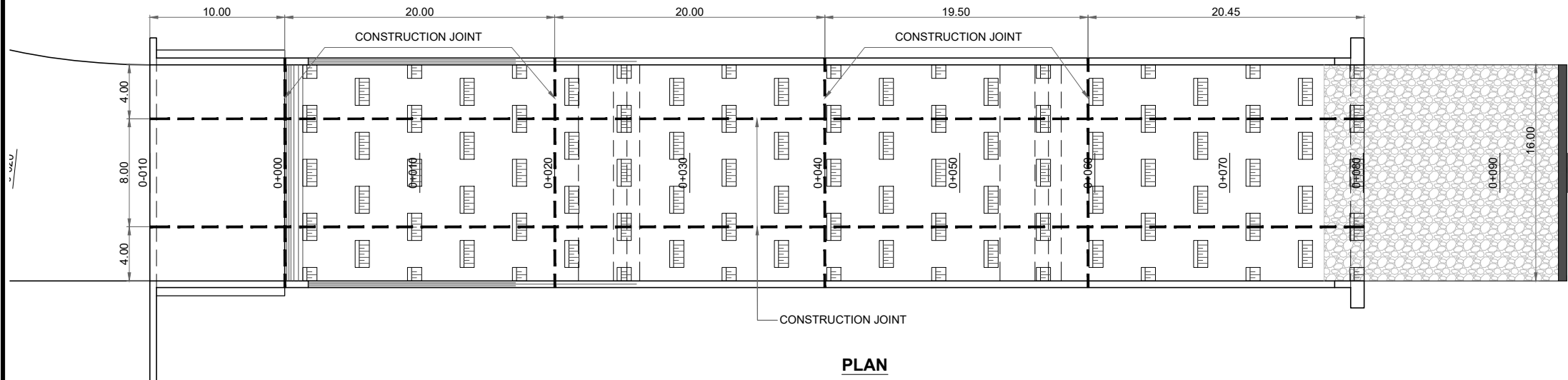
TITLE:

GHOZHEZAI DAM
T.S.D TANK
PROTECTION BUND
SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal		Shown, Dec, 2023
DRG.No:- GHD-BD-SP-05		SHEET:- 1 OF 1		SUB SH.	

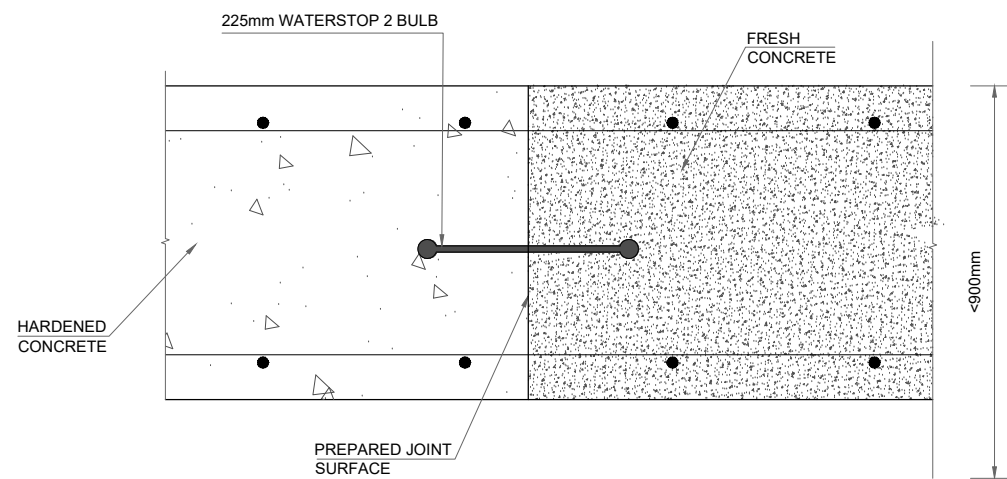


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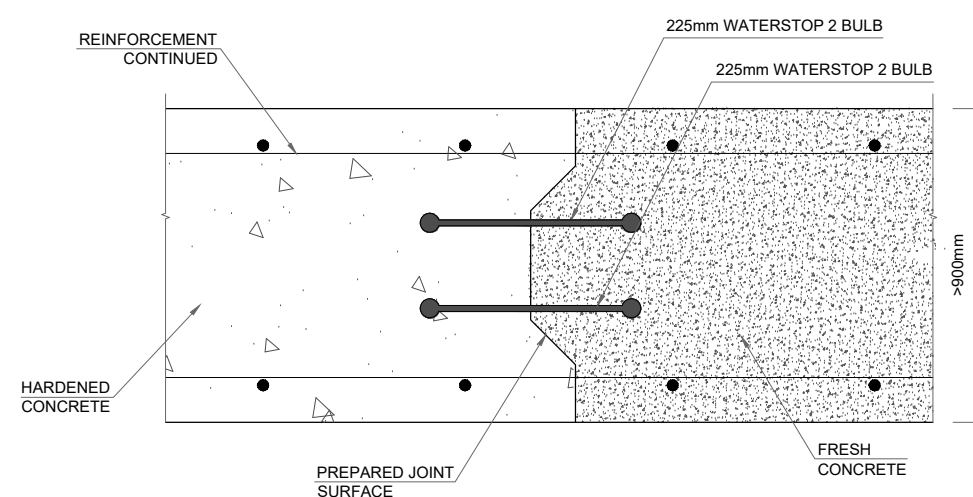


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



CONSTRUCTION JOINT
IF THICKNESS IS LESS THAN 900 mm



CONSTRUCTION JOINT
IF THICKNESS IS GREATER THAN 900 mm

REFERENCE DRAWINGS :-

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

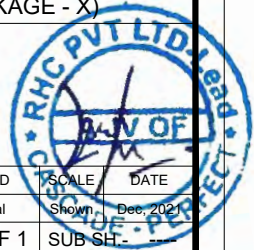
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCAD CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
SPILLWAY
JOINTS DETAIL

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2022

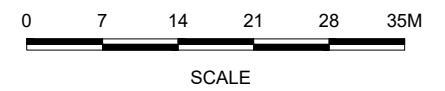
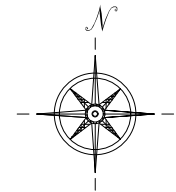
DRG.No:- GHD-BD-SP-06 SHEET:- 1 OF 1 SUB SH-



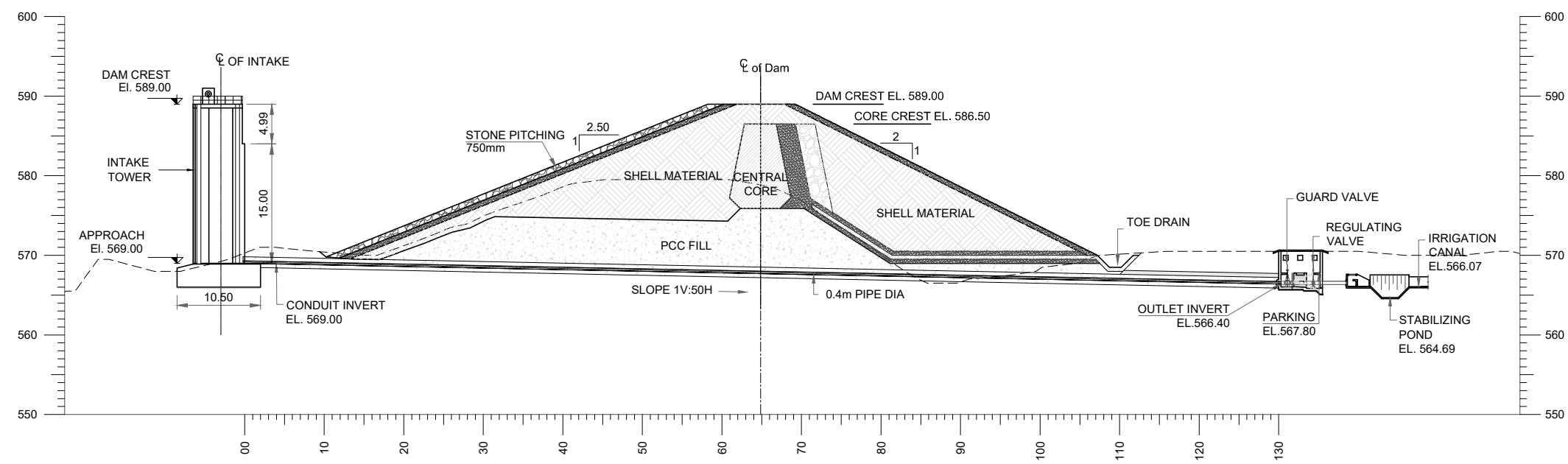
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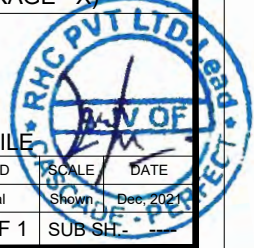
REFERENCE DRAWINGS :-
 INTAKE TOWER CROSS SECTIONS GHD-BD-IC-02
 DRAWING IS RELEASED
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 CLIENT:
 PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.
 CONSULTANTS:
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PEMC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS
 PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)



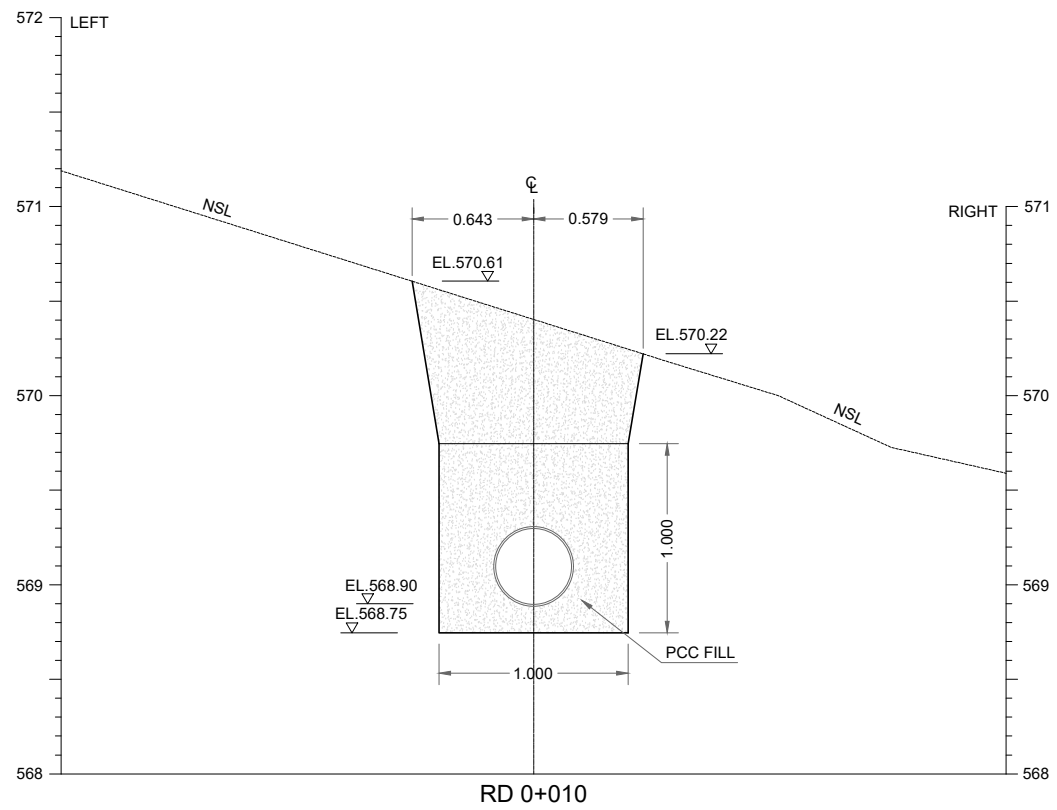
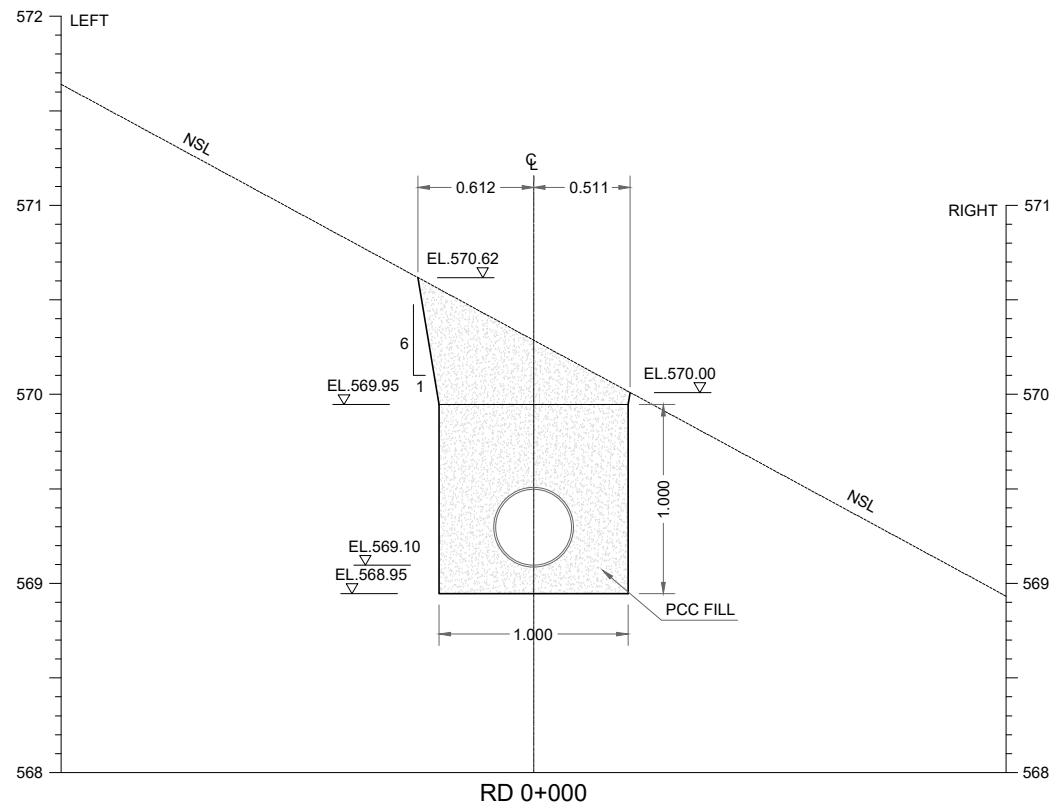
TITLE:
GHOZHEZAI DAM T.S.D TANK INTAKE TOWER LAYOUT PLAN & PROFILE

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2022

DRG.No:- GHD-BD-IC-01 SHEET:- 1 OF 1 SUB SH-



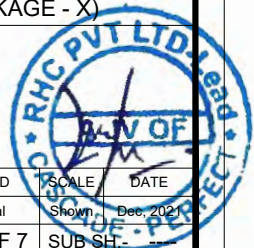
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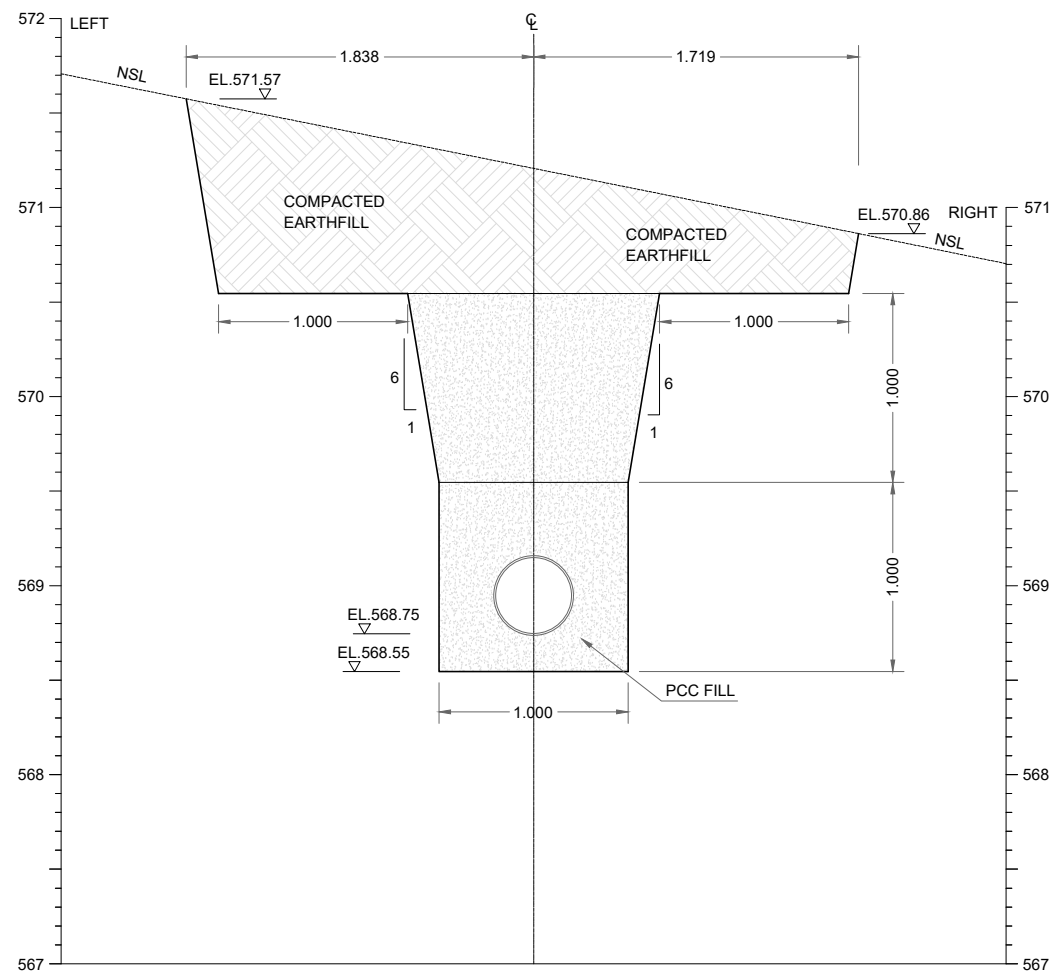
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

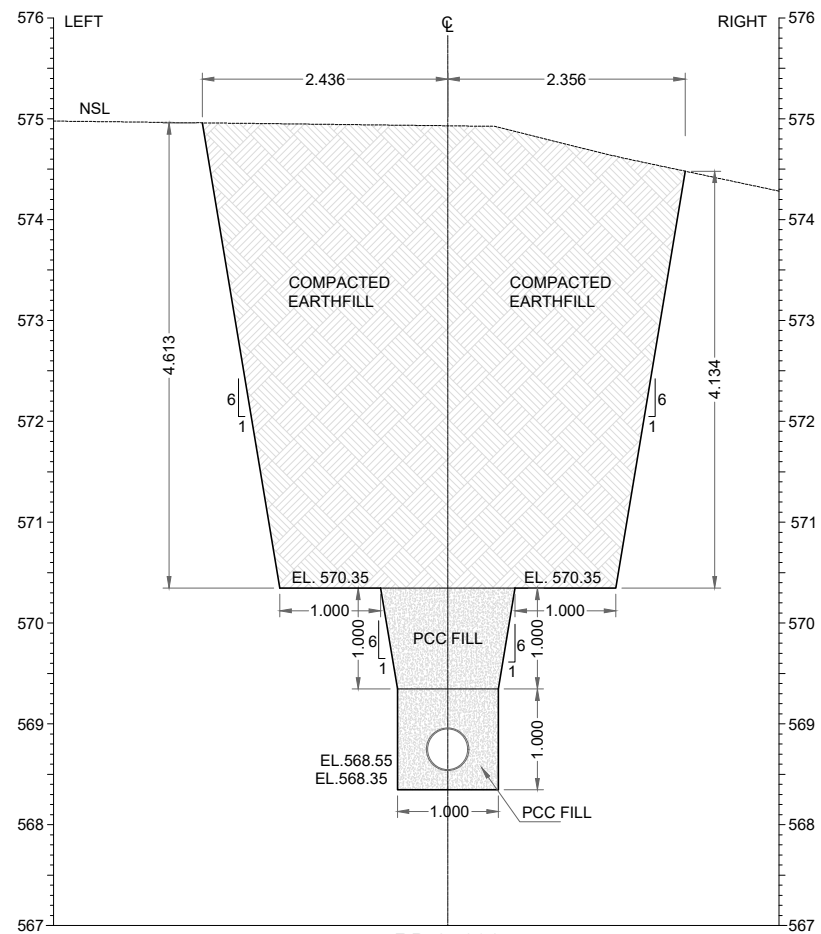
REFERENCE DRAWINGS :-				
LAYOUT PLAN & PROFILE GHD-BD-IC-01				
DRAWING IS RELEASED				
<input checked="" type="checkbox"/> FOR BIDDING ONLY				
CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.				
CONSULTANTS: A J.V OF  RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  CASCADE GROUP OF ENGINEERING & CONSULTANTS  PERFECT ENGINEERING & MANAGEMENT CONSULTANTS				
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)				
TITLE: GHOZHEZAI DAM T.S.D TANK INTAKE TOWER CROSS SECTIONS				
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown Dec, 2023
DRG.No:- GHD-BD-IC-02		SHEET:- 1 OF 7		SUB SH:-



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RD 0+020



RD 0+030

NOTES:-

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REFERENCE DRAWINGS :-

LAYOUT PLAN & PROFILE GHD-BD-IC-01

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

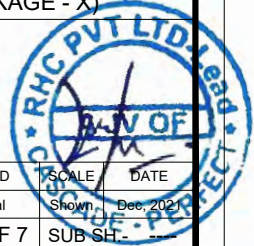
CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCAD** CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PEMC** PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

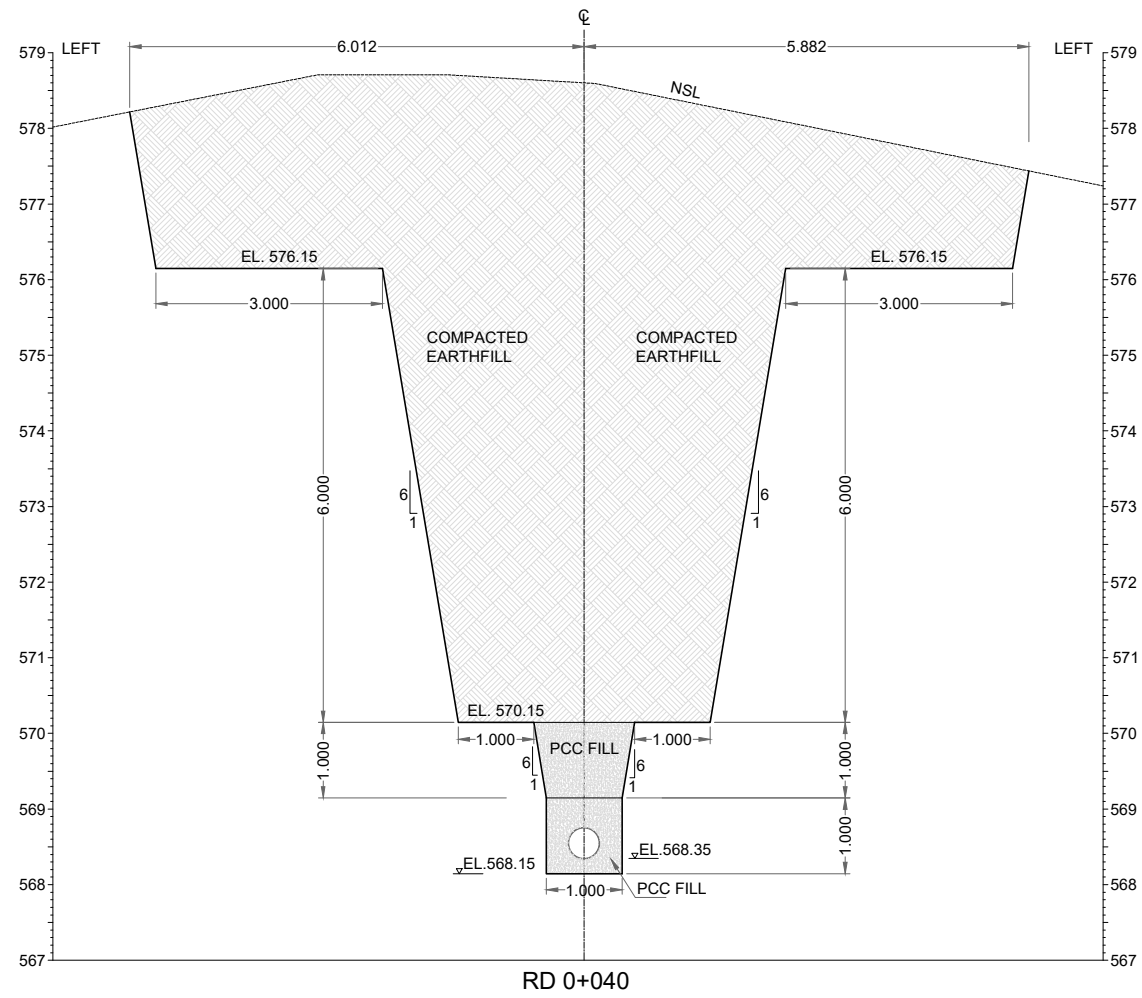
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER
CROSS SECTIONS

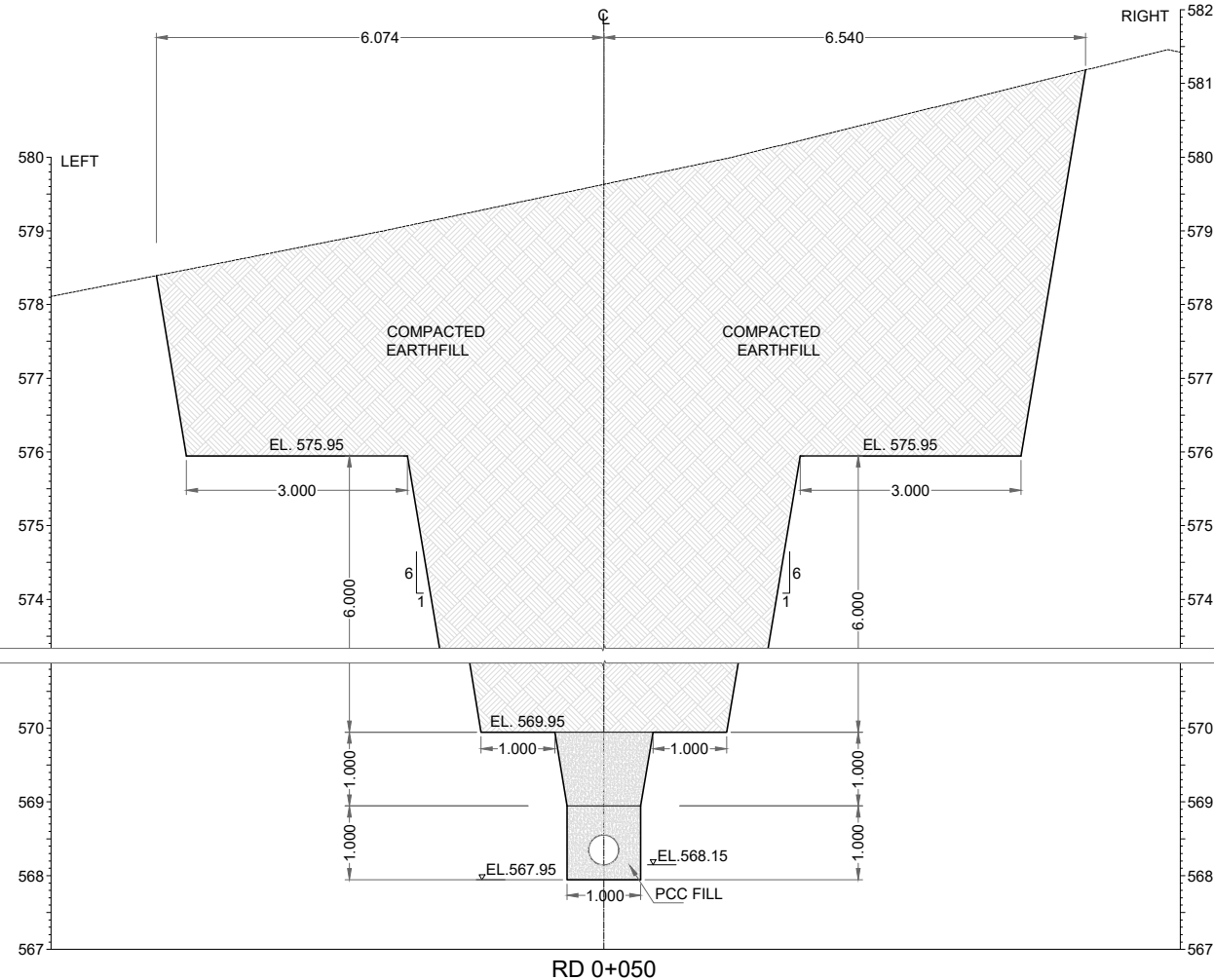
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:-	GHD-BD-IC-02	SHEET:-	2 OF 7	SUB SH:-	



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RD 0+040

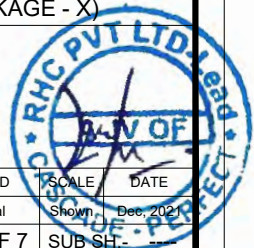


RD 0+050

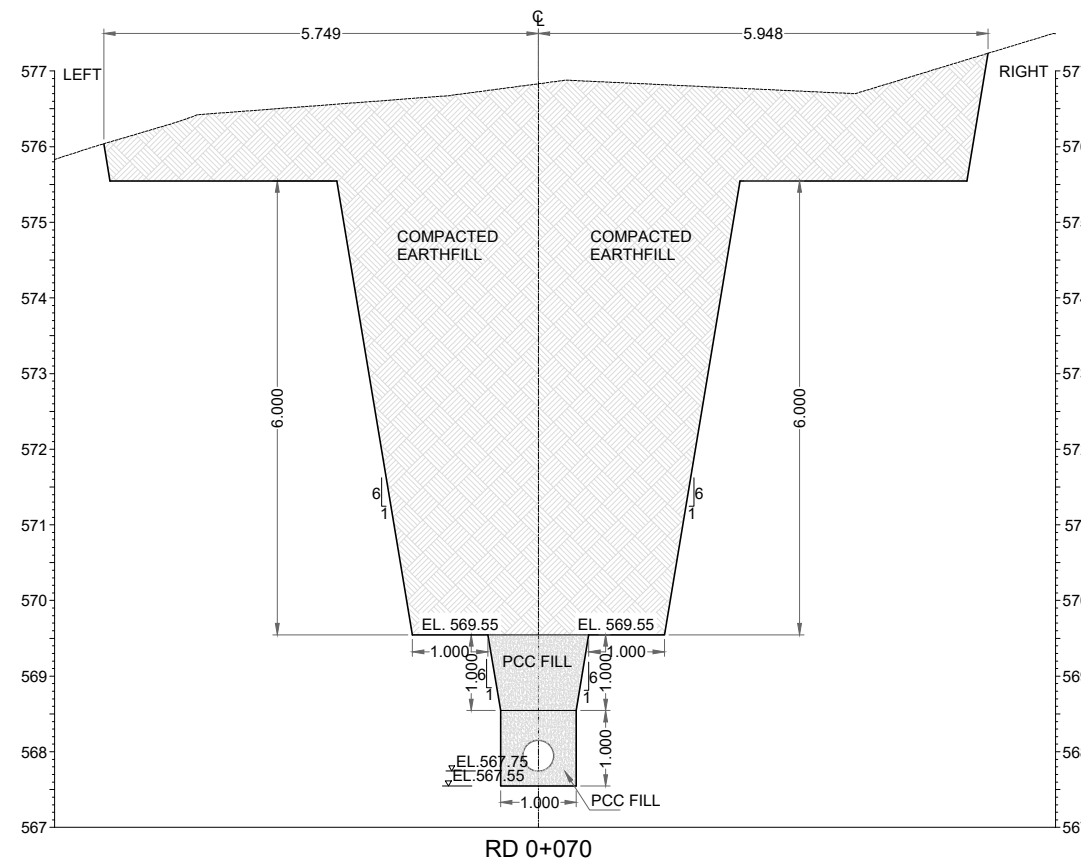
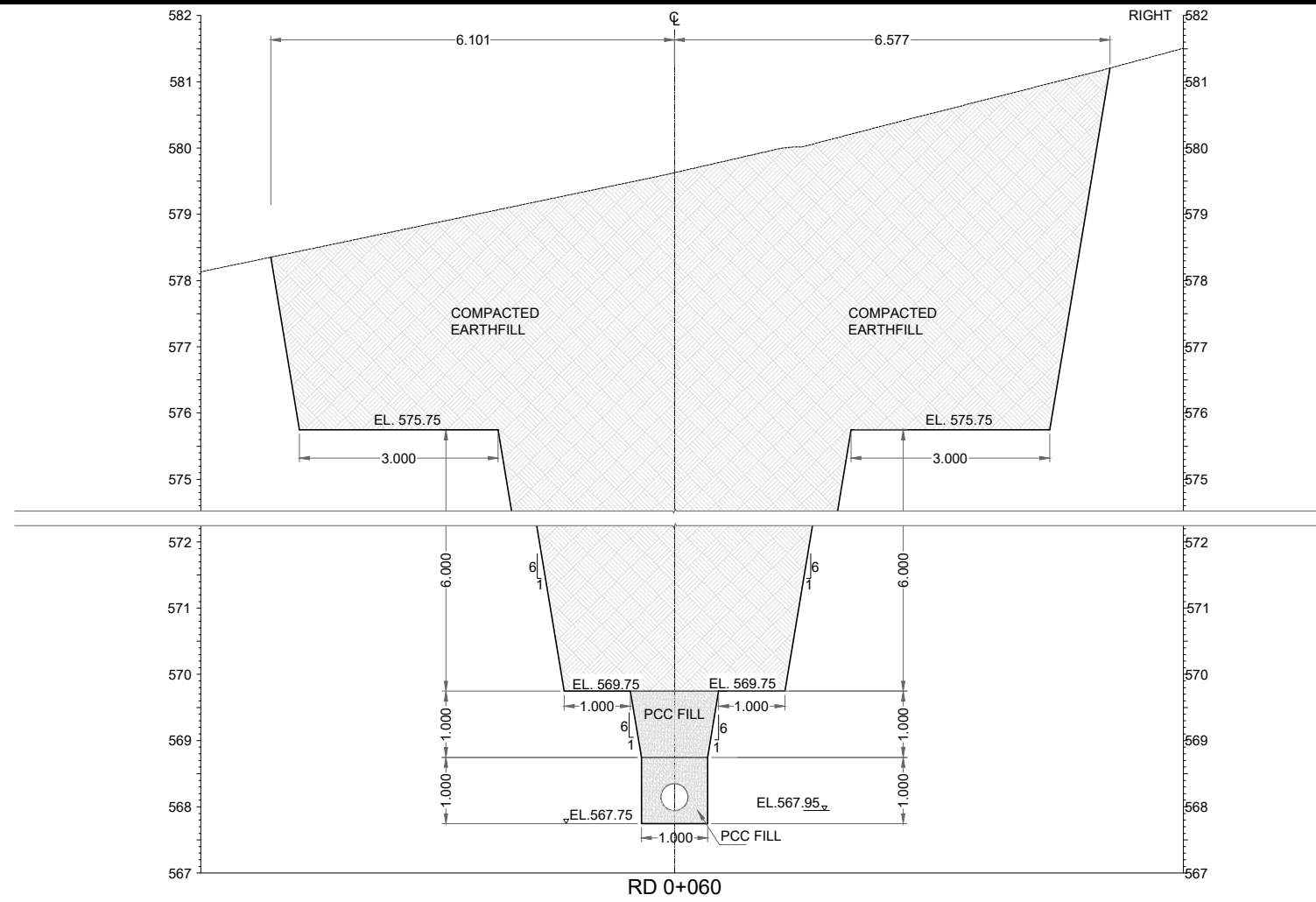
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

REFERENCE DRAWINGS :-					
LAYOUT PLAN & PROFILE GHD-BD-IC-01					
DRAWING IS RELEASED					
<input checked="" type="checkbox"/> FOR BIDDING ONLY					
CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.					
CONSULTANTS: A J.V OF RHC REHMAN HABIB CONSULTANTS (PVT) LTD.  CASCADE GROUP OF ENGINEERING & CONSULTANTS  PERFECT ENGINEERING & MANAGEMENT CONSULTANTS					
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)					
TITLE: GHOZHEZAI DAM T.S.D TANK INTAKE TOWER CROSS SECTIONS					
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec, 2023
DRG.No:- GHD-BD-IC-02		SHEET:- 3 OF 7		SUB SH.	



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REFERENCE DRAWINGS :-

LAYOUT PLAN & PROFILE GHD-BD-IC-01

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

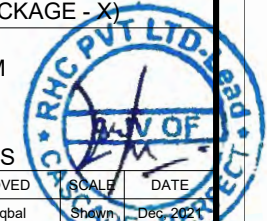
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

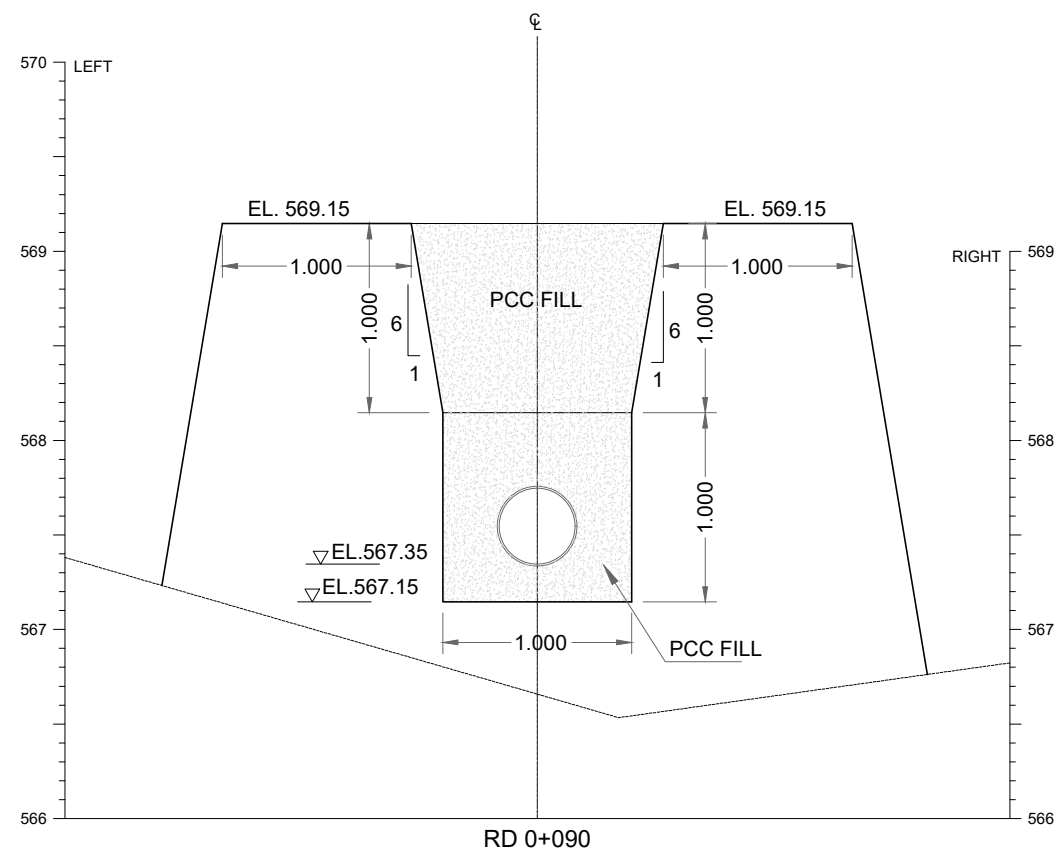
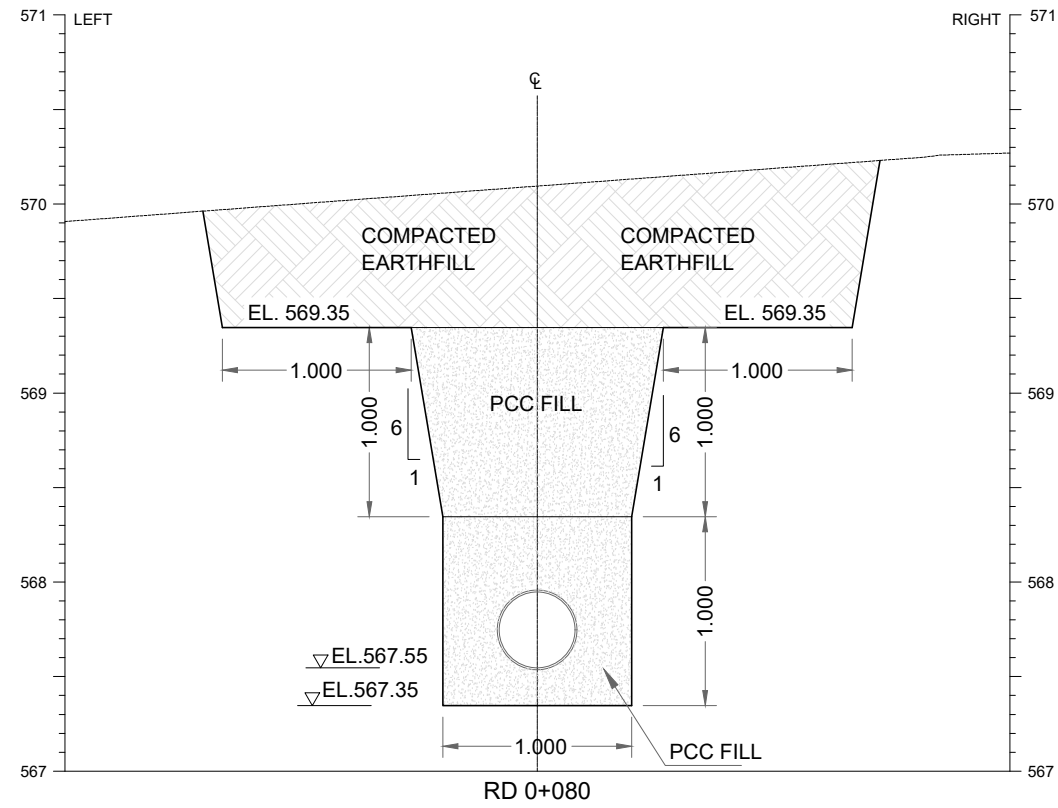
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER
CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-IC-02 SHEET:- 4 OF 7 SUB SH. ---



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NOTES:-

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REFERENCE DRAWINGS :-

LAYOUT PLAN & PROFILE GHD-BD-IC-01

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

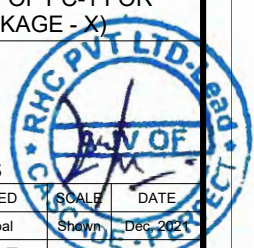
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

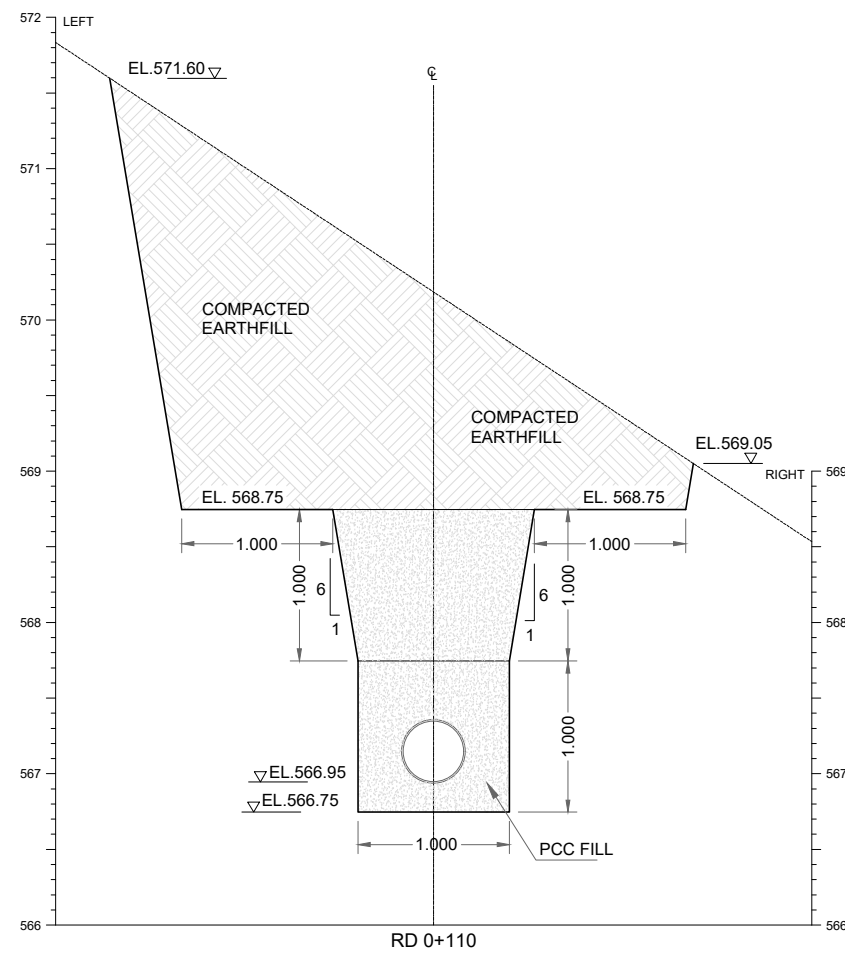
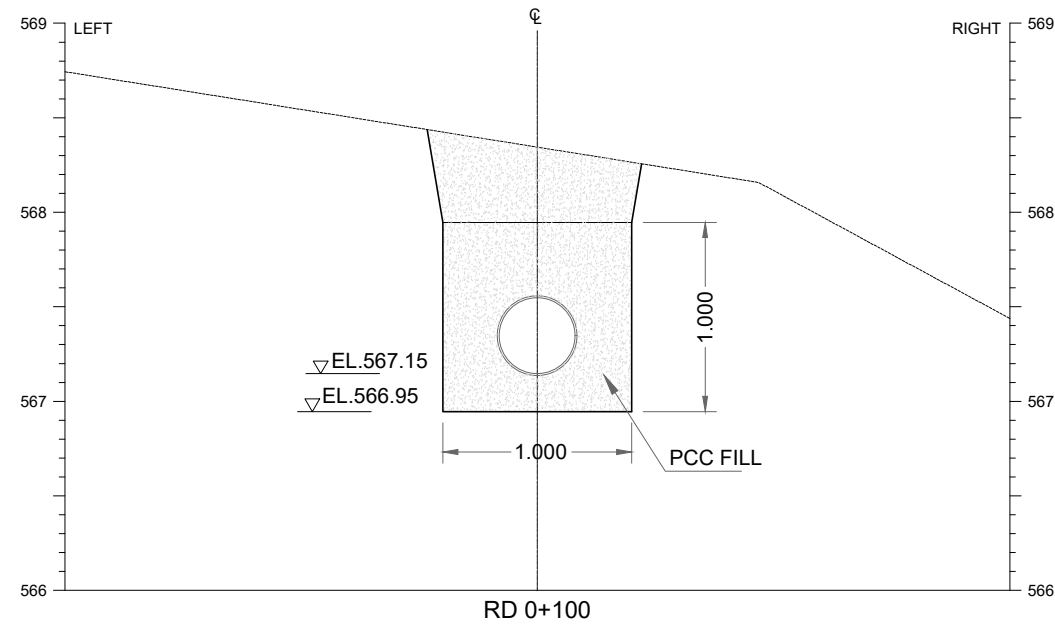
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER
CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	1:1	Dec-2021

DRG.No:- GHD-BD-IC-02 SHEET:- 5 OF 7 SUB SH. ---



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NOTES:-

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REFERENCE DRAWINGS :-

LAYOUT PLAN & PROFILE GHD-BD-IC-01

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

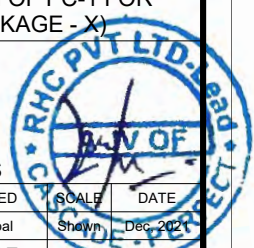
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

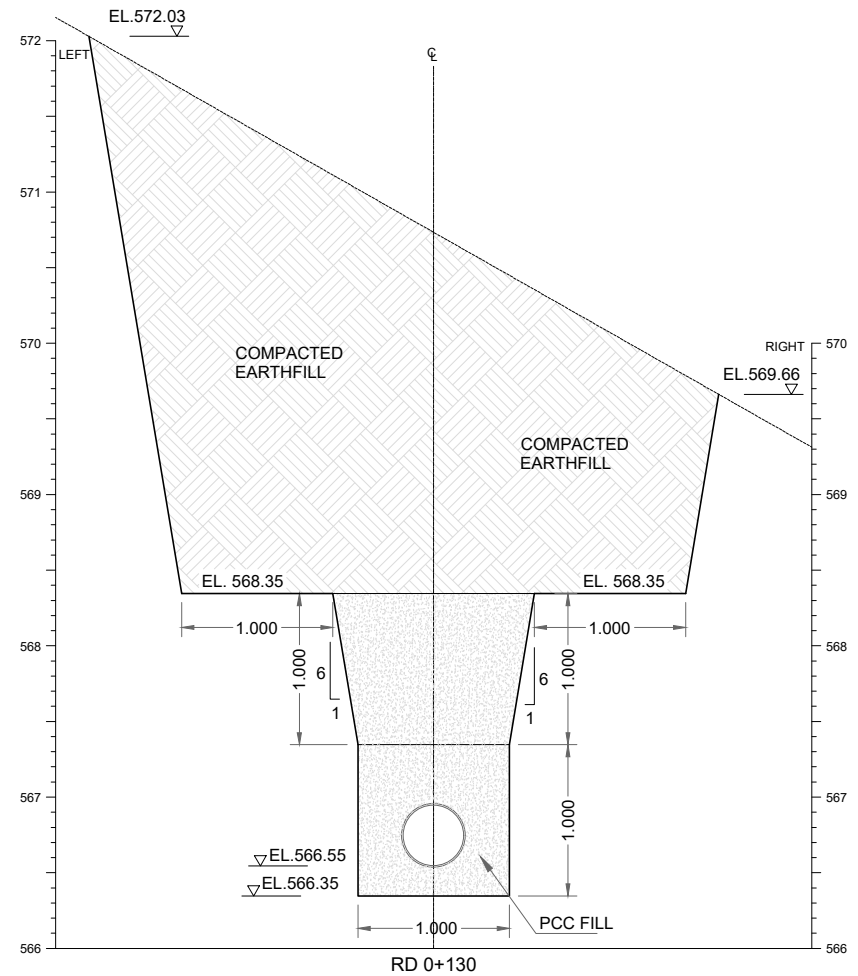
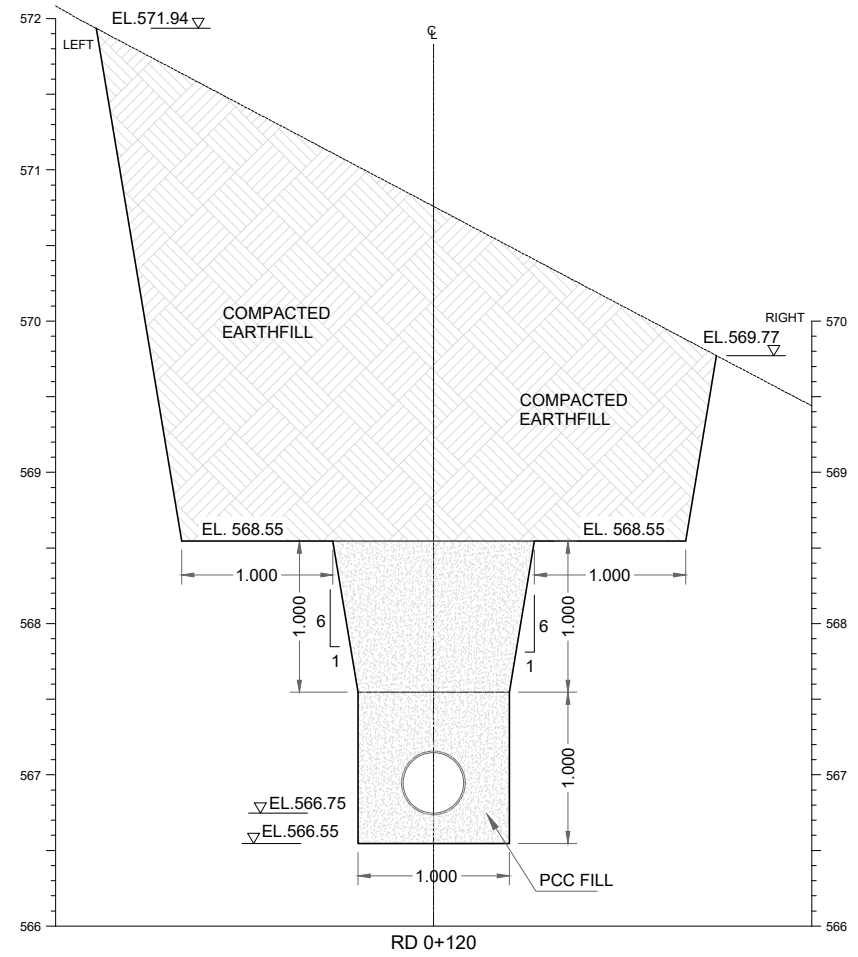
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER
CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	1:1	Dec-2021

DRG.No:- GHD-BD-IC-02 SHEET:- 6 OF 7 SUB SH. ---



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NOTES:-

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REFERENCE DRAWINGS :-

LAYOUT PLAN & PROFILE GHD-BD-IC-01

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE GROUP**
OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

PROJECT:

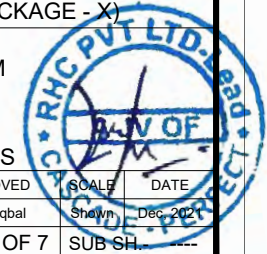
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

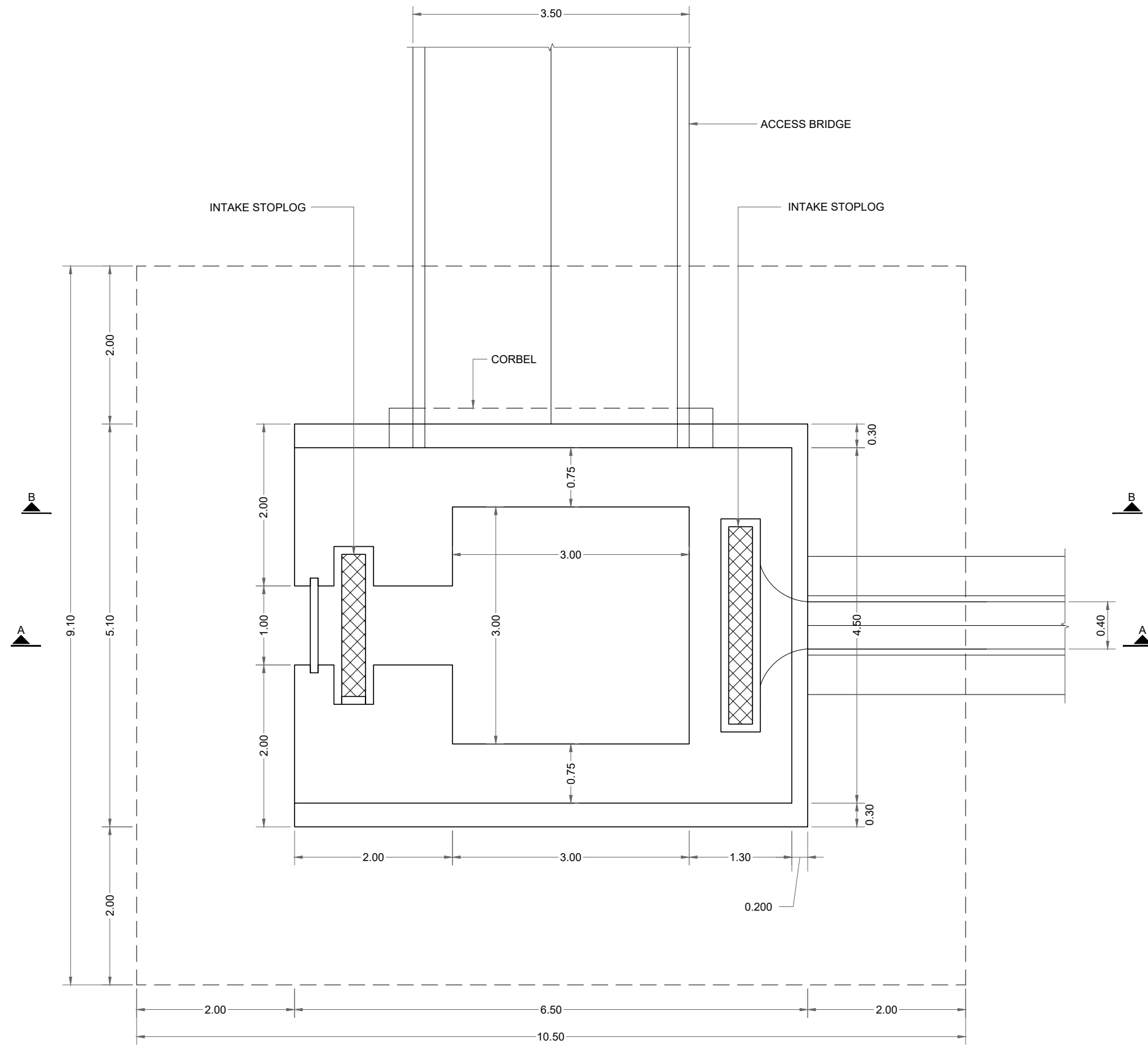
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER
CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-IC-02 SHEET:- 7 OF 7 SUB SH. ---



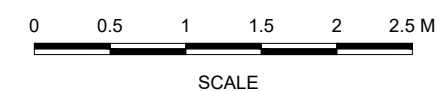
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INTAKE TOWER PLAN

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCAD E GROUP
OF ENGINEERING & CONSULTANTS

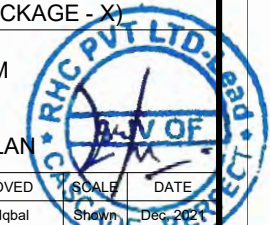
PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

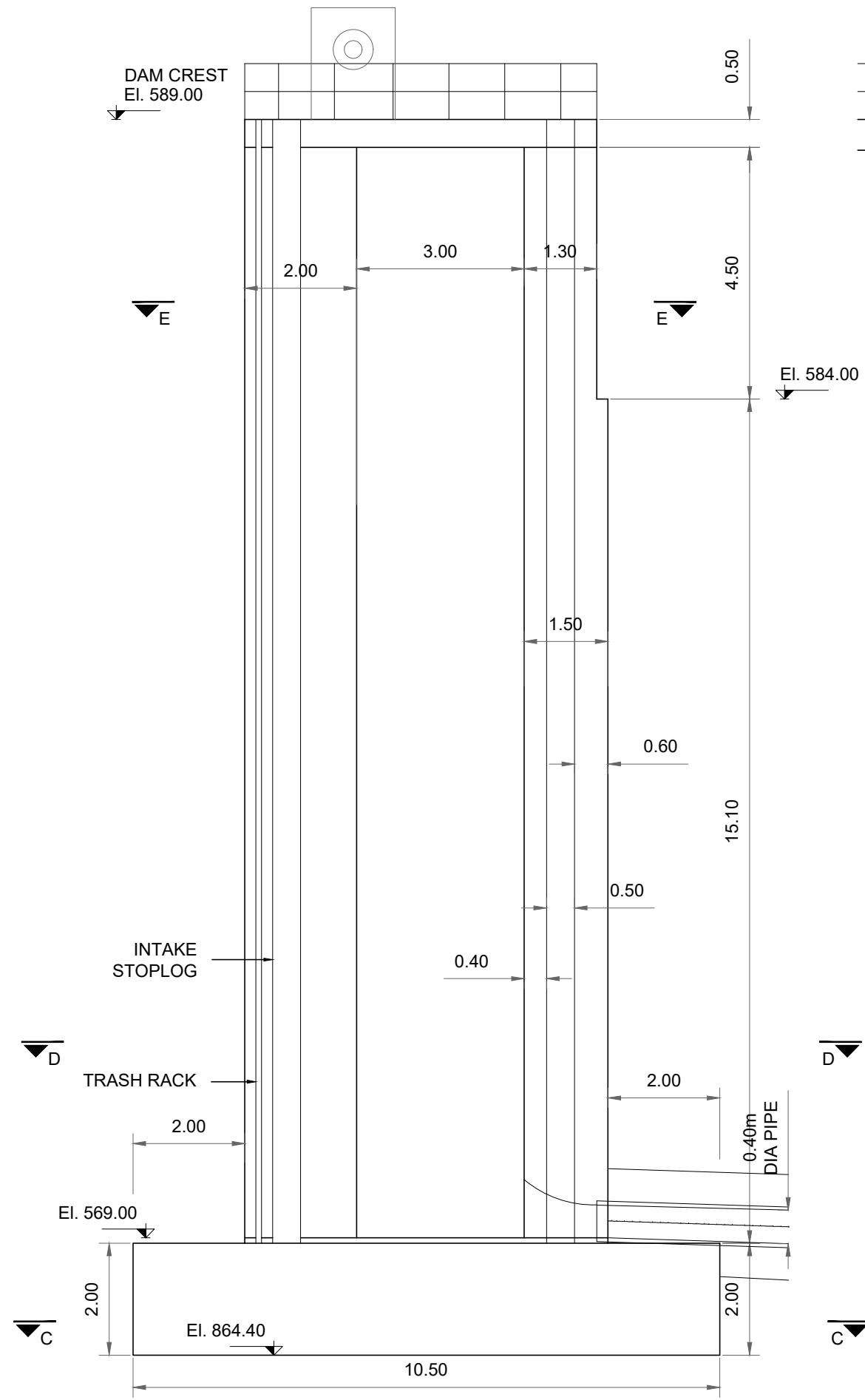
TITLE:
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER PLAN

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shawn	Dec-2021

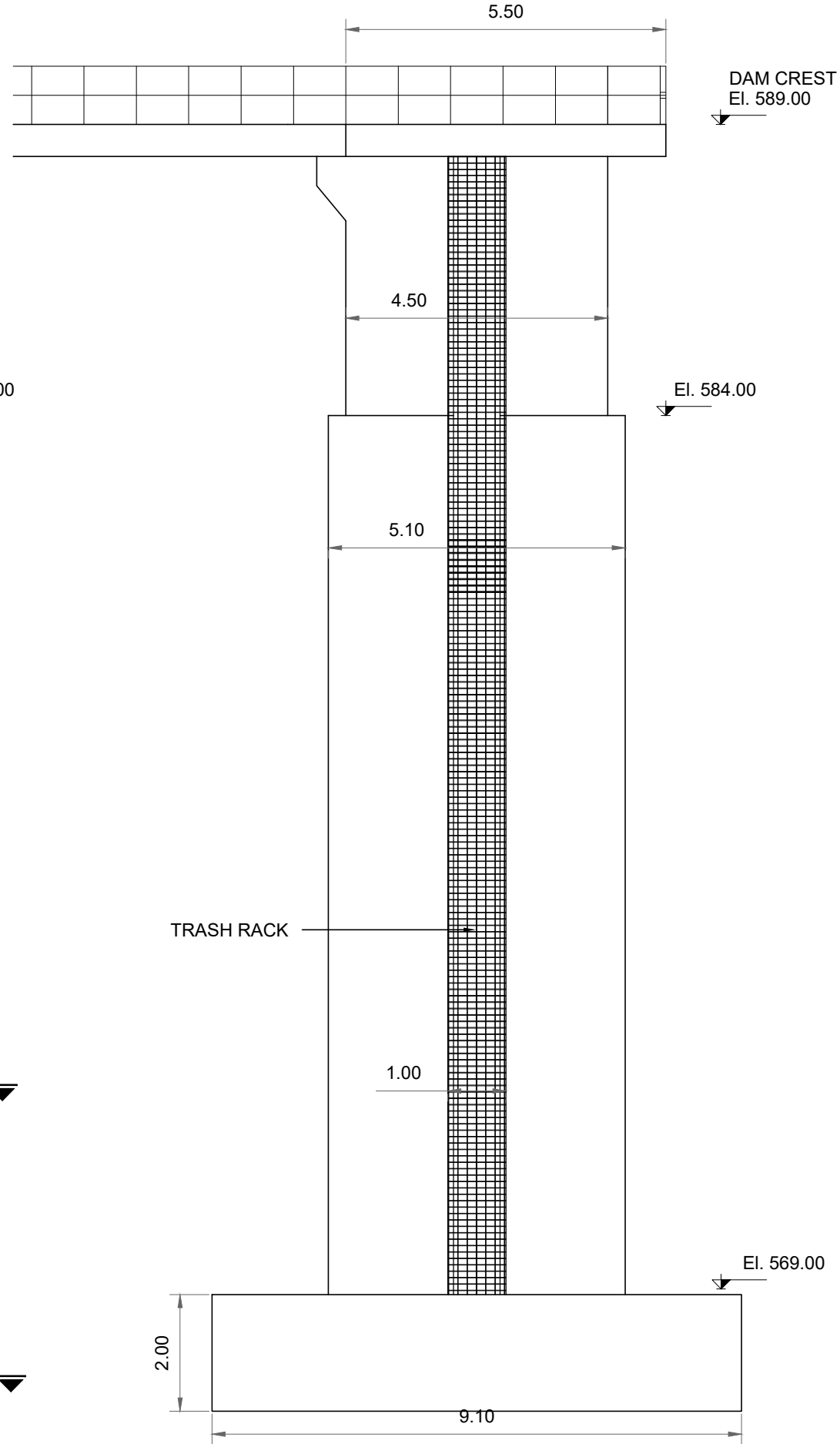
DRG.No:- GHD-BD-IC-03 SHEET:-1 OF 1 SUB SH. ---



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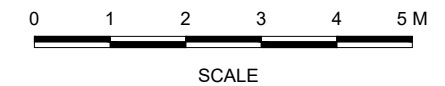
SECTION A-A



FRONT VIEW

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

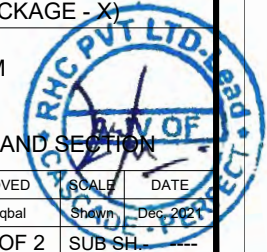
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

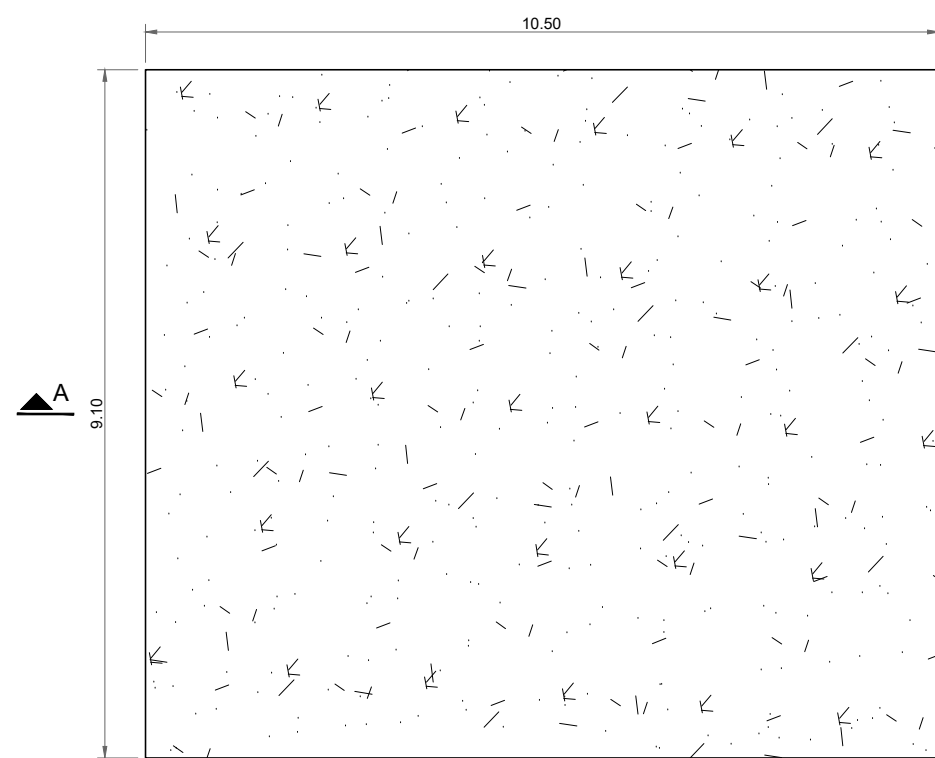
TITLE:
INTAKE TOWER FRONT VIEW AND SECTION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shawn	Dec-2021

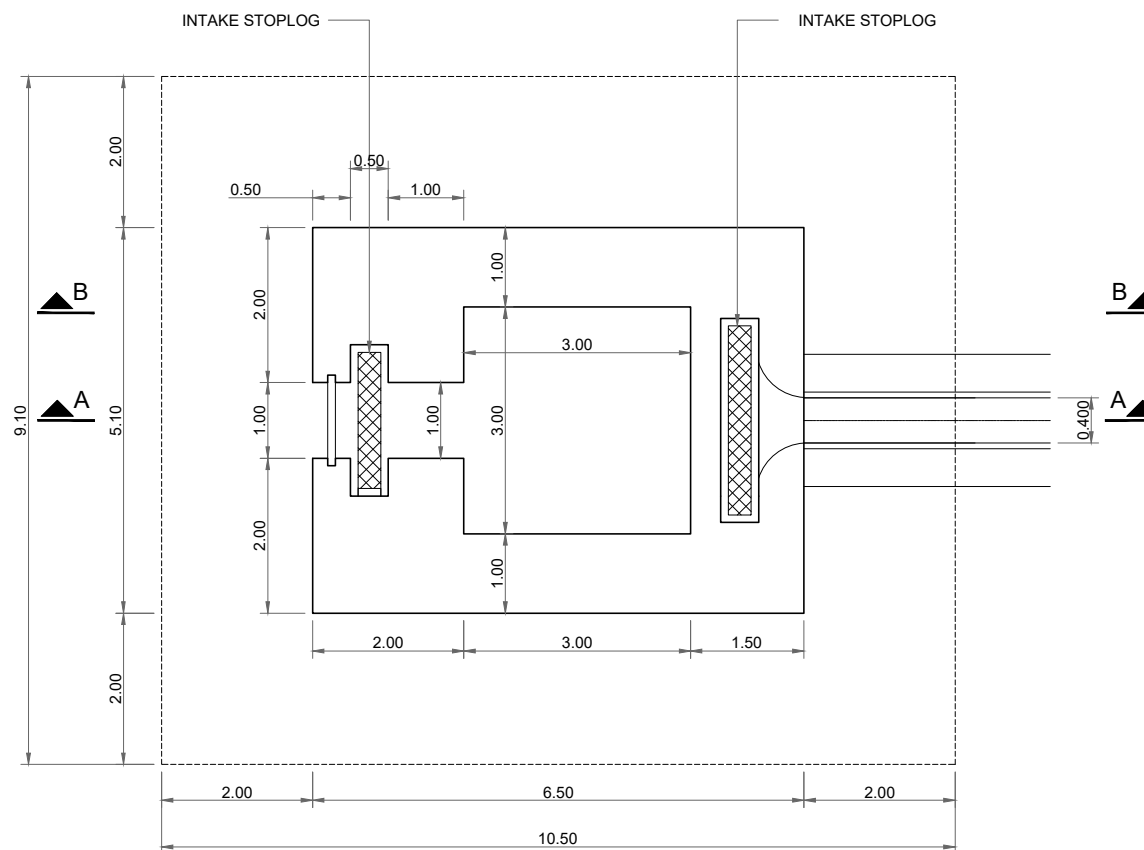
DRG.No:- GHD-BD-IC-04 SHEET:-1 OF 2 SUB SH. ---



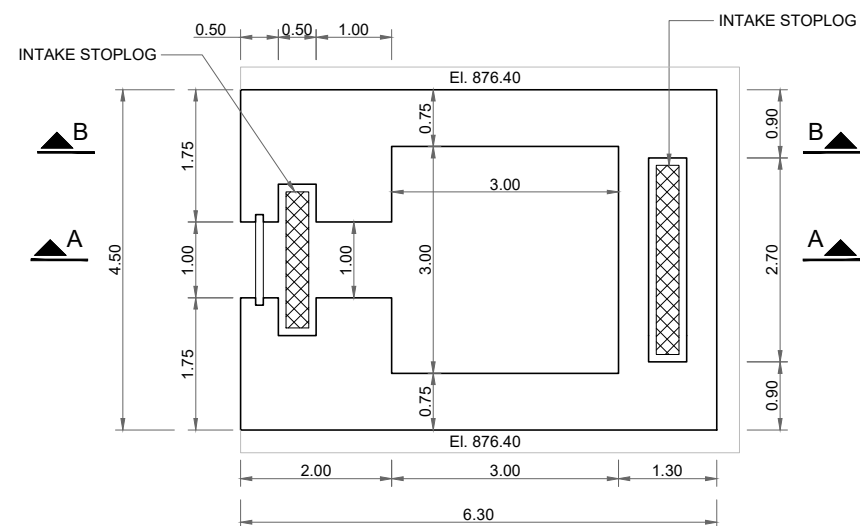
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SECTION B-B
AT EL.865.00



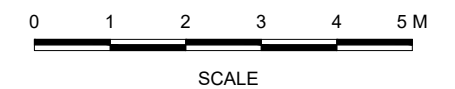
SECTION C-C
AT EL.870.00



SECTION D-D
AT EL.880.00

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE** GROUP
OF ENGINEERING & CONSULTANTS
- PEMG** PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

PROJECT:

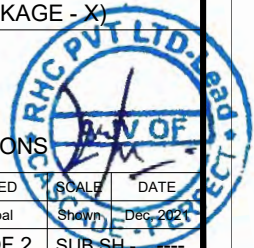
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

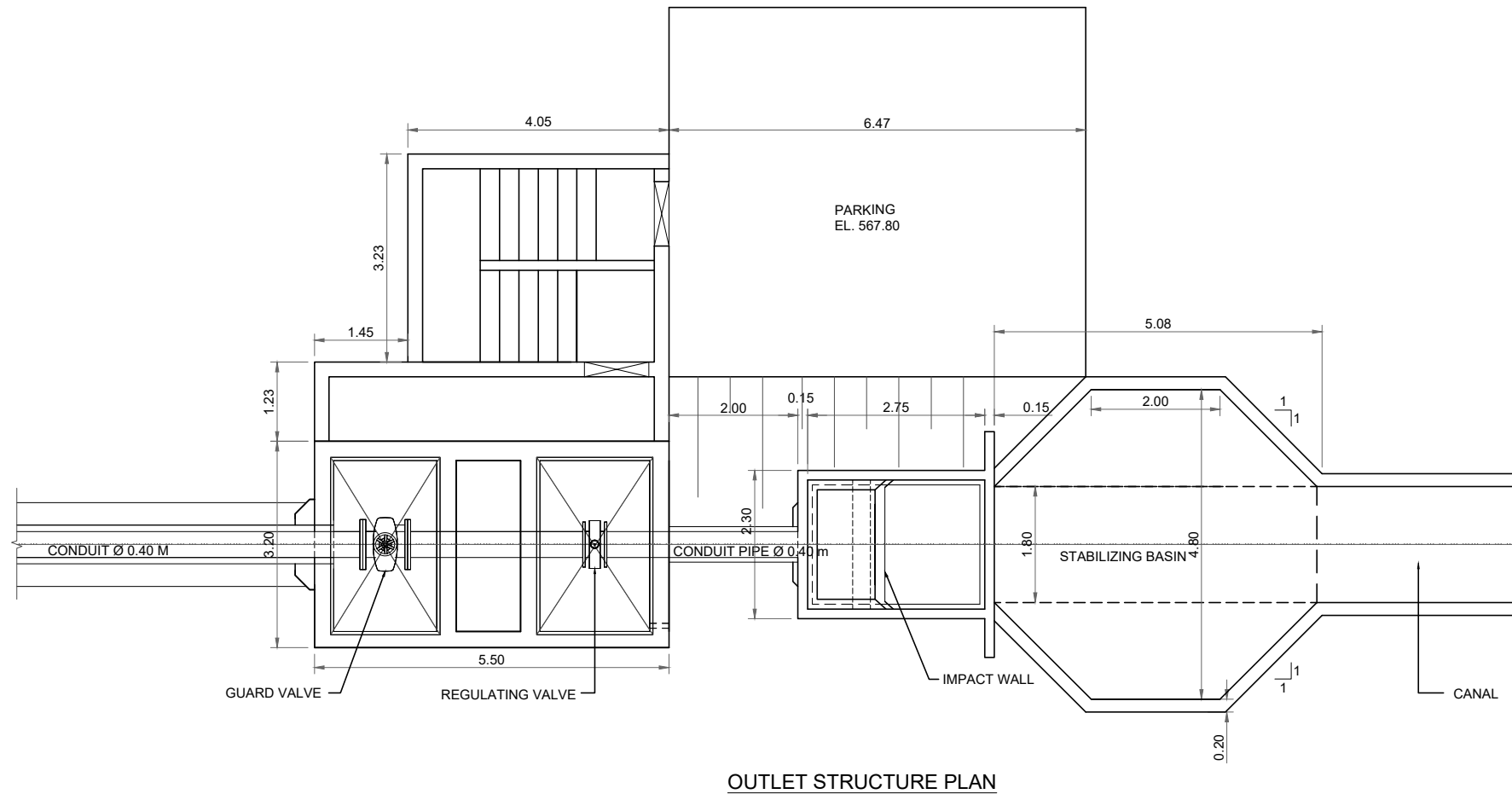
GHOZHEZAI DAM
T.S.D TANK
INTAKE TOWER SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

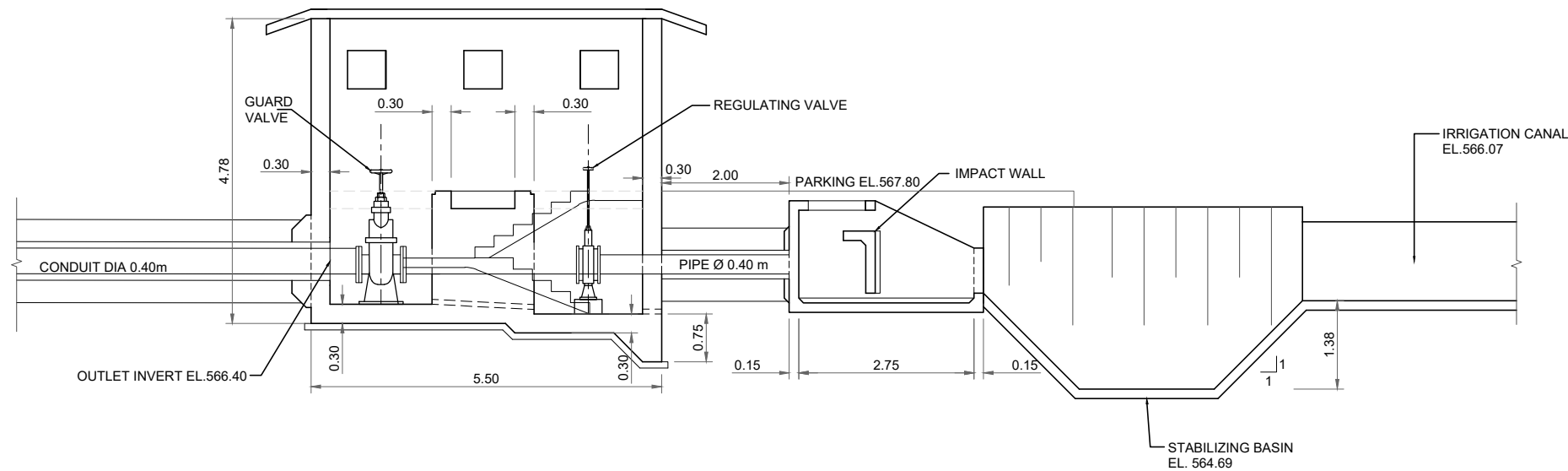
DRG.No:- GHD-BD-IC-04 SHEET:-2 OF 2 SUB SH. ---



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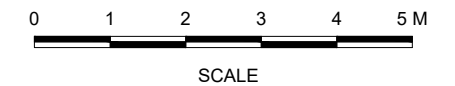
OUTLET STRUCTURE PLAN



OUTLET STRUCTURE SECTION

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

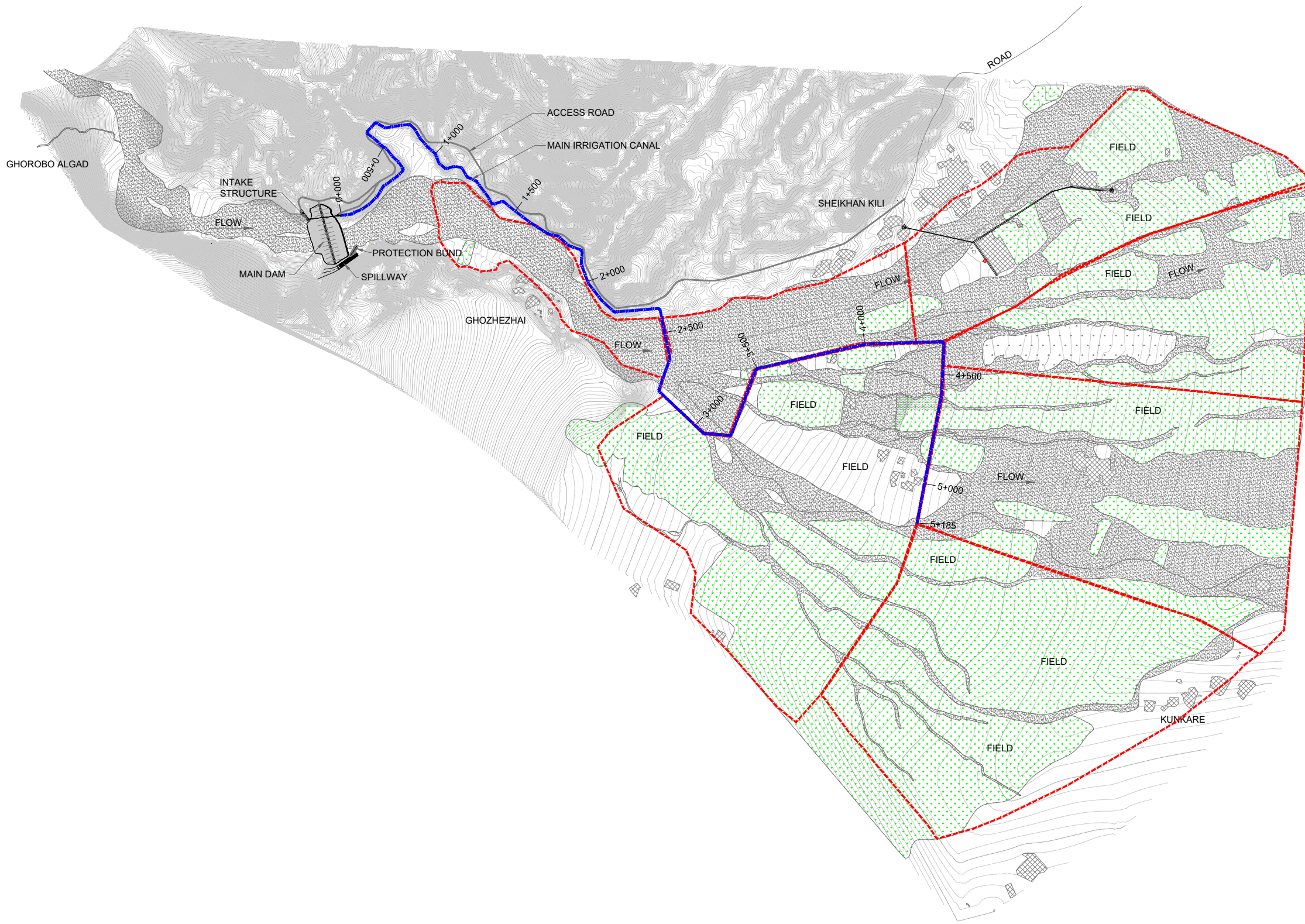
TITLE:
GHOZHEZAI DAM
T.S.D TANK
OUTLET STRUCTURE SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-IC-05 SHEET:-1 OF 1 SUB SH. ---



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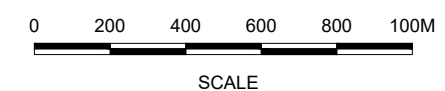
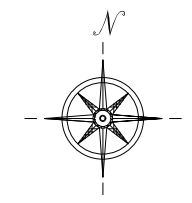


NOTES:-

- ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

- MAIN CANAL
- ACCESS ROAD
- CHACKBANDI
- CONTOUR MAJOR 845
- CONTOUR MINOR 847
- FIELD
- HOUSE
- EXISTING ROADS



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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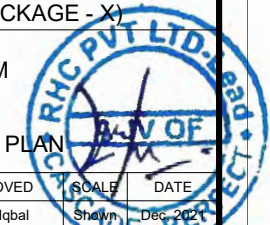
CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

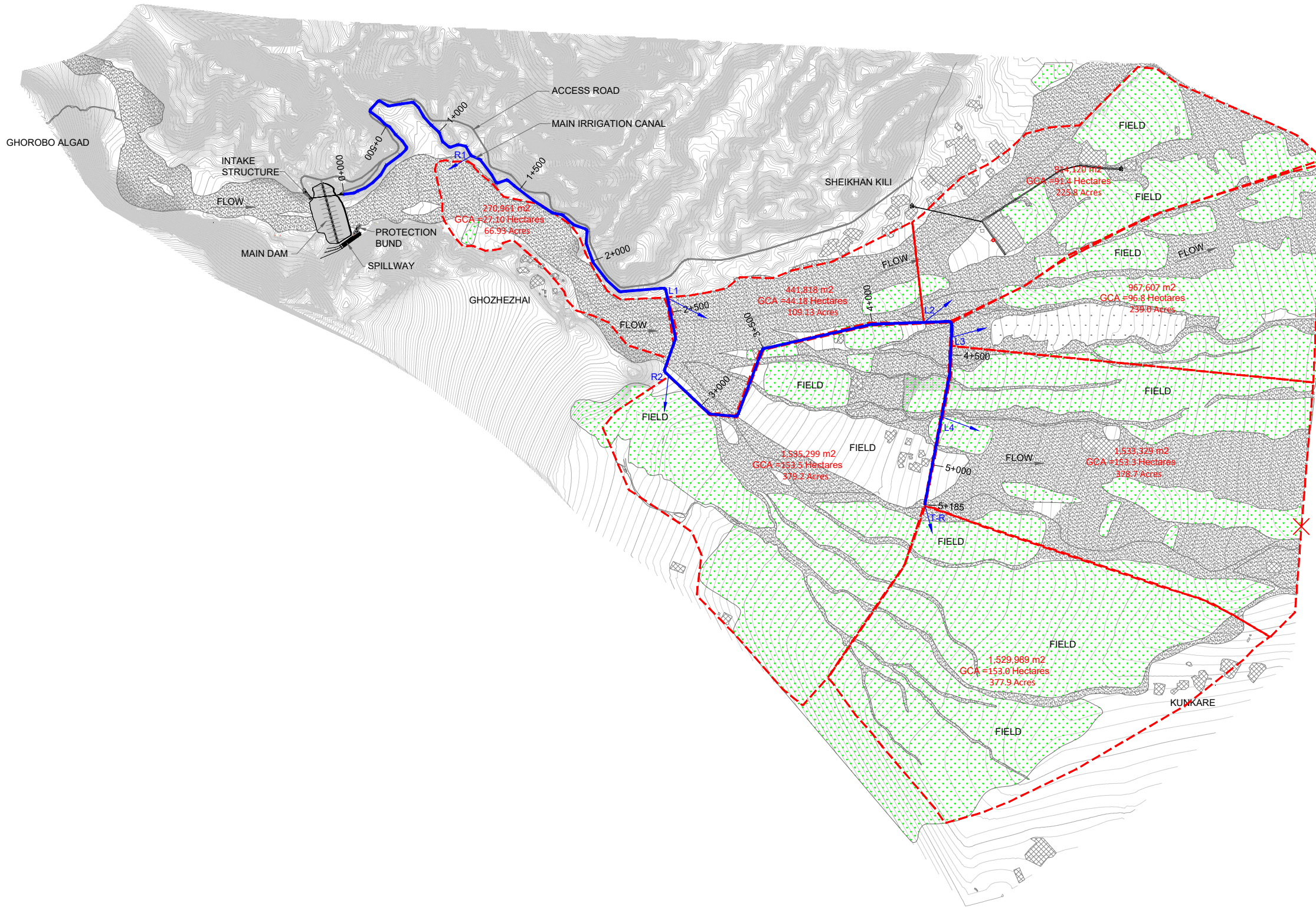
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
IRRIGATION LAYOUT PLAN

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021
DRG.No:- GHD-BD-IR-01		SHEET:- 1 OF 1		SUB SH. ---	



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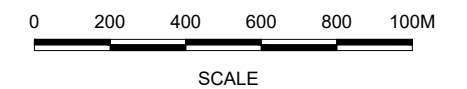
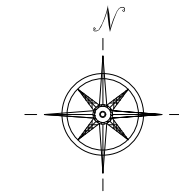


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

- MAIN CANAL
- ACCESS ROAD
- CHACKBANDI
- CONTOUR MAJOR 845
- CONTOUR MINOR 847
- FIELD
- HOUSE
- EXISTING ROADS



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

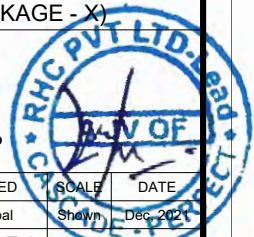
CONSULTANTS: A J.V OF
REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

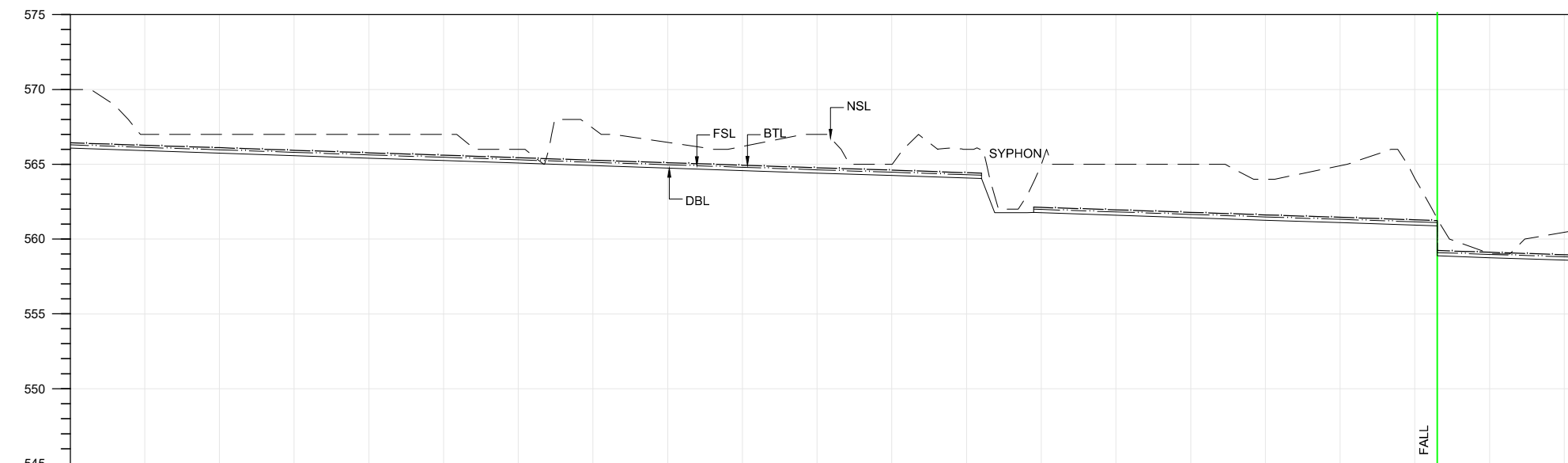
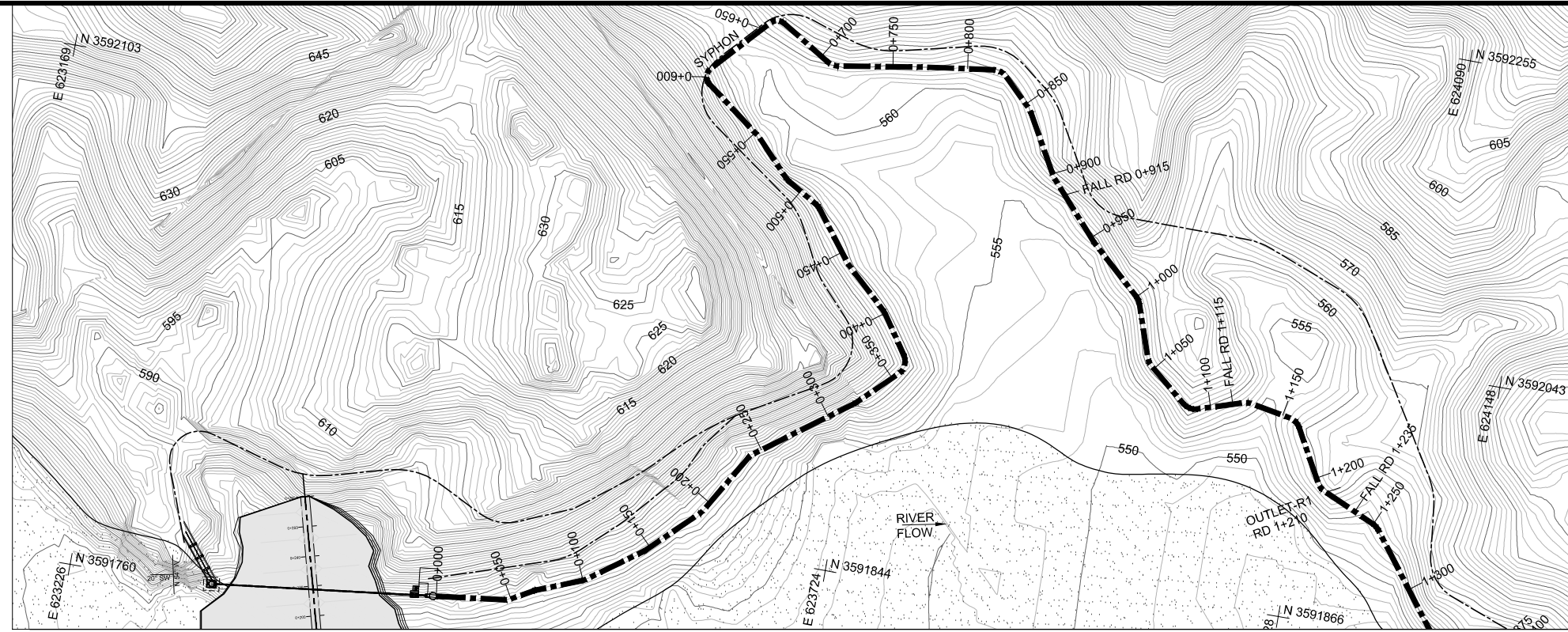
TITLE:
GHOZHEZHAI DAM
T.S.D TANK
CHACKBANDI MAP

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-IR-02 SHEET:- 1 OF 1 SUB SH. ---



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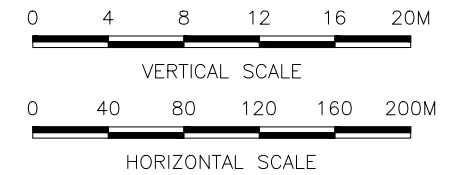


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER

LEGEND

- AQUEDUCT
- MAIN CANAL
- EXISTING ROAD
- VILLAGES/HOUSES
- EXISTING COMMAND AREA
- CONTOUR
- OUTLET
- DRAINAGE CULVERT
- NULLAH
- BANK
- FSL
- BED
- NSL



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

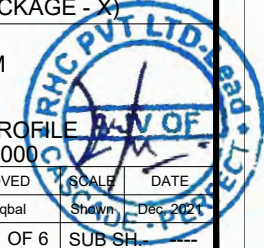
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
MAIN CANAL PLAN & PROFILE
RD 0+000 TO RD 1+000

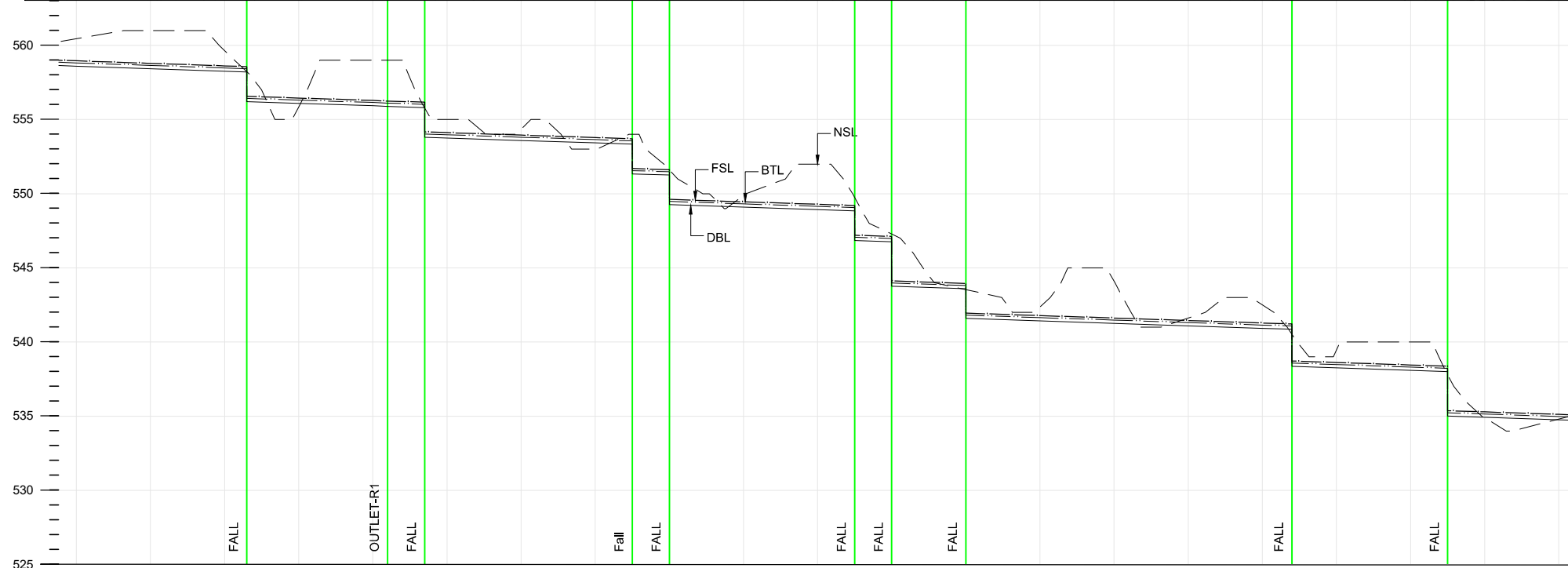
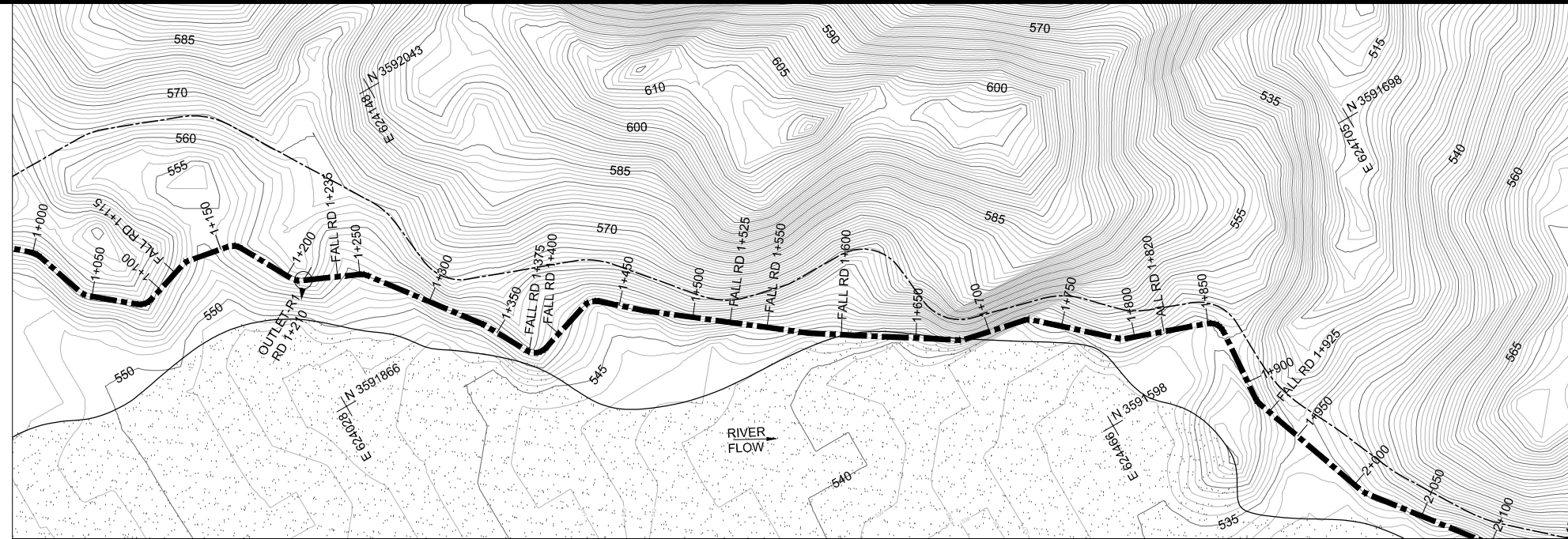
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	1:1	Dec-2021

DRG.No:- SHD-BD-IR-03 SHEET:-01 OF 6 SUB SH.

DESIGN DATA	DATUM LINE																											
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VELOCITY (m/sec)	1.06																											
MANNING'S n / TYPE	0.016																											
DISCHARGE (Cumec)	0.142																											
FSD (m)	0.23																											
BED WIDTH (m) PARABOLIC	PARABOLIC SECTION																											
BANK TOP LEVEL (BTL)	566.44	566.27	566.11	565.94	565.77	565.61	565.44	565.27	565.11	564.94	564.77	564.61	564.44	564.27	564.11	563.94	563.78	563.62	561.96	561.79	561.62	561.46	561.29	561.24	559.24	558.12	558.96	
DESIGN FSL	566.30	566.13	565.97	565.80	565.63	565.47	565.30	565.13	564.97	564.80	564.63	564.47	564.30	564.27	564.41	562.00	561.78	561.98	561.82	561.65	561.48	561.32	561.15	561.10	561.24	559.10	558.98	558.82
DESIGN BED LEVEL (DBL)	566.08	565.91	565.75	565.58	565.41	565.25	565.08	564.91	564.75	564.58	564.41	564.25	564.08	564.05	564.41	561.78	561.76	561.98	561.60	561.43	561.26	561.10	560.93	560.88	560.88	558.88	558.76	558.60
NSL	570.00	567.00	567.00	567.00	567.00	567.00	566.00	567.40	566.46	566.19	567.00	565.00	566.00	566.00	566.00	563.84	564.39	561.76	565.00	565.00	564.00	564.90	564.04	561.37	561.37	559.05	560.45	560.45
R.D	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	915	915	950	1000					



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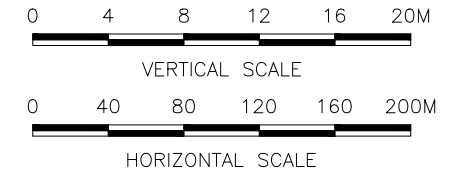


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER

LEGEND

- AQUEDUCT
- MAIN CANAL
- EXISTING ROAD
- VILLAGES/HOUSES
- EXISTING COMMAND AREA
- CONTOUR
- OUTLET
- DRAINAGE CULVERT
- NULLAH
- BANK
- FSL
- BED
- NSL



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
**PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.**

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

**CASCADE GROUP
OF ENGINEERING & CONSULTANTS**

**PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS**

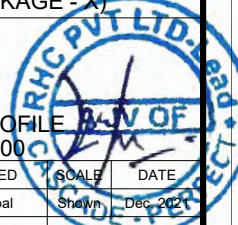
PROJECT:
**CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)**

TITLE:
**GHOZHEZAI DAM
T.S.D TANK
MAIN CANAL PLAN & PROFILE
RD 1+000 TO RD 2+000**

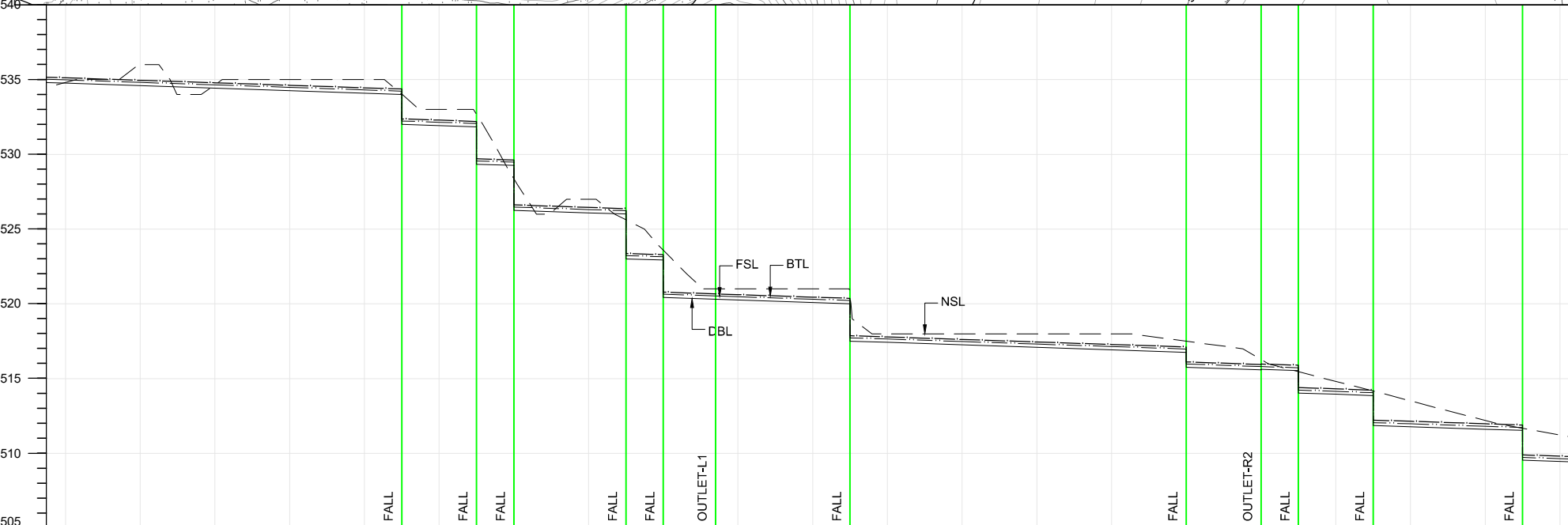
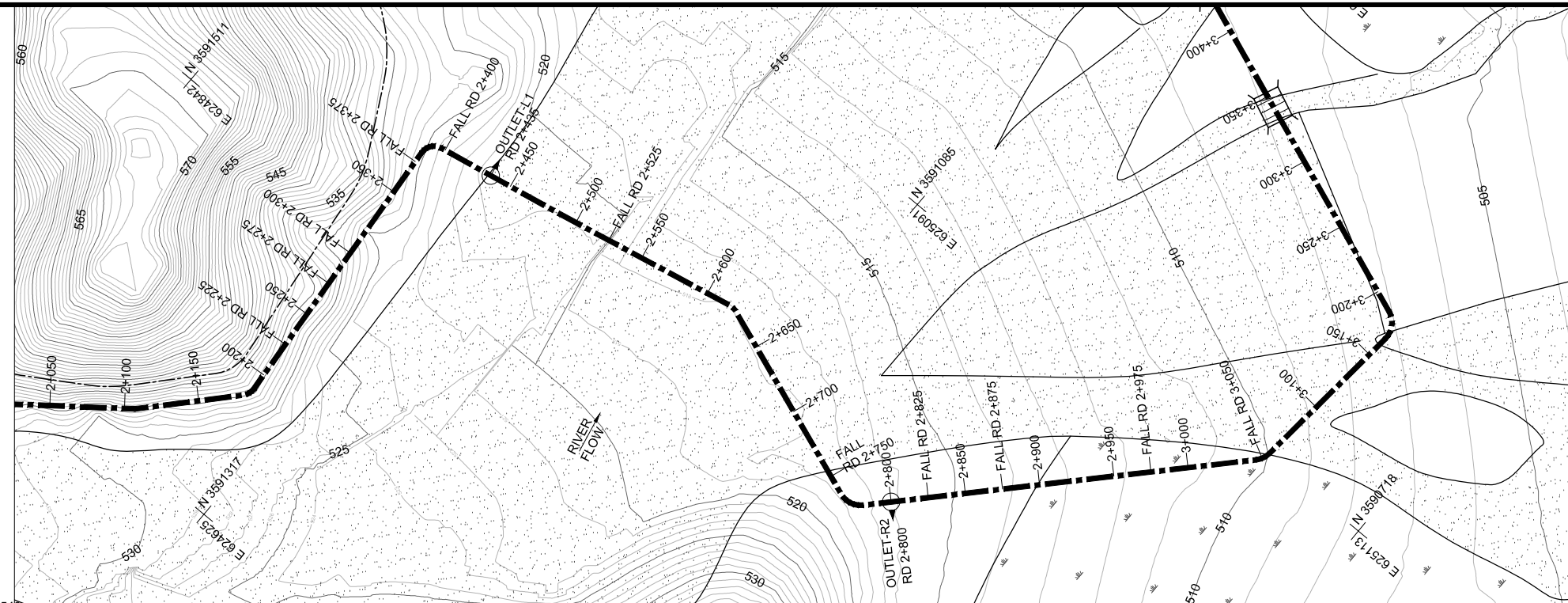
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- SHD-BD-IR-03 SHEET:-02 OF 6 SUB SH.

R.D	1000	1050	1100	1115	1150	1200	1210	1210	1235	1235	1250	1300	1350	1375	1375	1400	1400	1450	1500	1525	1525	1550	1600	1600	1650	1700	1750	1800	1820	1820	1850	1900	1925	1925	1950	2000																									
VELOCITY (m/sec)																				1.06																				1.05																					
MANNING'S n / TYPE																				0.016																				0.016																					
DISCHARGE (Cumec)																				0.142																				0.137																					
FSD (m)																				0.23																				0.22																					
BED WIDTH (m) PARABOLIC	PARABOLIC SECTION																																																												
BANK TOP LEVEL (BTL)	558.96		558.79		558.62	558.57	556.45		556.29	556.24	556.25		556.17	556.17	553.98		553.95		553.79		553.70	551.70		551.56	551.62	549.62		549.45		549.29		549.20	547.20		547.12	547.12		543.96		543.81	541.81		541.64	541.62		541.45		541.28	541.22		538.72	538.62		538.45		538.37	535.37		535.29		535.12
DESIGN FSL	558.82	558.65	558.48	558.43	556.31	556.15	556.11	556.09	555.93	555.88	555.89	555.81	555.76	555.76	553.98	553.81	553.65	553.43	553.34	551.56	551.48	549.48	549.31	549.15	549.06	547.06	546.98	543.96	543.81	541.81	541.64	541.48	541.31	541.14	541.08	538.58	538.48	538.31	538.23	535.23	535.15	534.98	534.81	534.76																	
DESIGN BED LEVEL (DBL)	558.60	558.43	558.26	558.21	556.09	555.93	555.88	555.89	555.81	555.76	555.76	553.98	553.81	553.65	553.43	553.34	551.56	551.48	549.48	549.31	549.15	549.06	547.06	546.98	543.96	543.81	541.81	541.64	541.48	541.31	541.14	541.08	538.58	538.48	538.31	538.23	535.23	535.15	534.98	534.81	534.76																				
NSL	560.45	561.00	559.64	558.22	555.84	559.00	559.00	559.00	555.76	555.76	553.00	554.35	553.00	554.00	551.61	551.61	549.89	549.09	552.00	549.75	549.75	547.28	547.28	543.53	543.53	541.59	541.42	544.10	541.61	542.50	540.51	540.51	539.45	540.00	537.78	537.78	534.89	534.81	534.76																						



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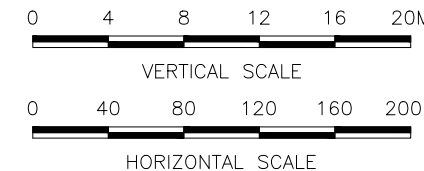


NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER

LEGEND

- AQUEDUCT
- MAIN CANAL
- EXISTING ROAD
- VILLAGES/HOUSES
- EXISTING COMMAND AREA
- CONTOUR
- OUTLET
- DRAINAGE CULVERT
- NULLAH
- BANK
- FSL
- BED
- NSL



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

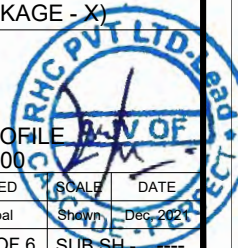
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE: GHOZHEZAI DAM T.S.D TANK MAIN CANAL PLAN & PROFILE RD 2+000 TO RD 3+000

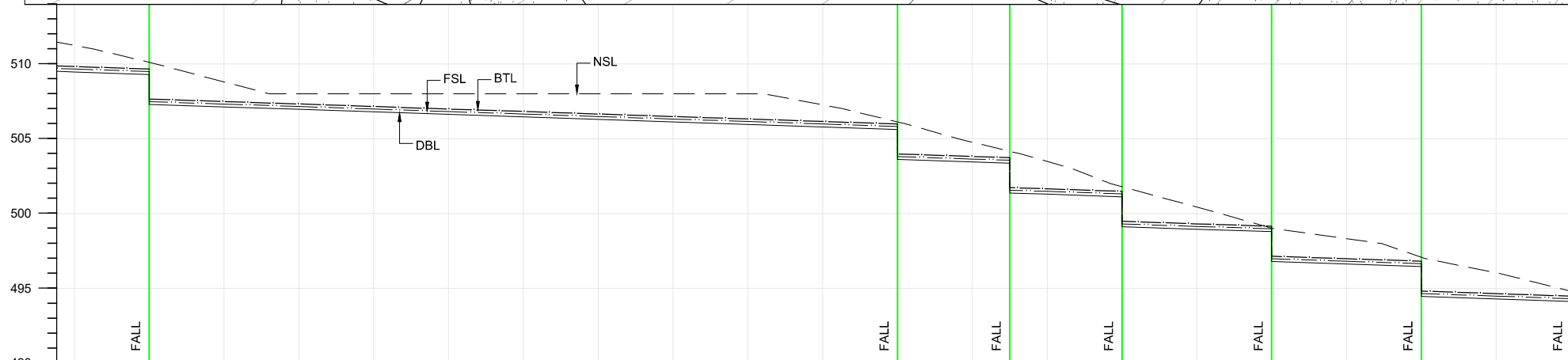
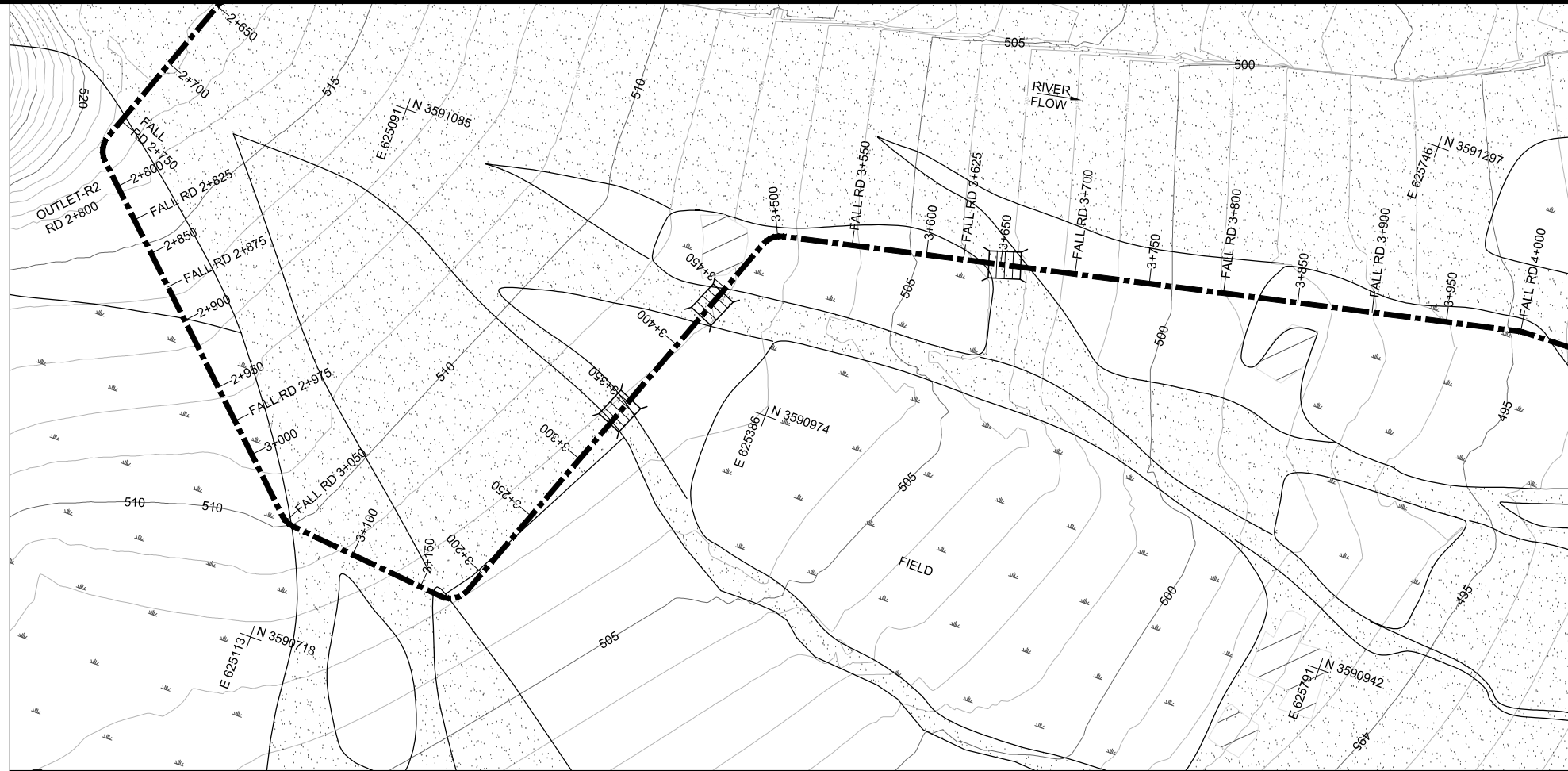
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- SHD-BD-IR-03 SHEET:-03 OF 6 SUB SH.

DESIGN DATA	VELOCITY (m/sec)		MANNING'S n / TYPE		DISCHARGE (Cumec)		FSD (m)		BED WIDTH (m) PARABOLIC																																
	Left	Right	Left	Right	Left	Right	Left	Right	Left	Right																															
BANK TOP LEVEL (BTL)	535.12	534.95	534.79	534.62	534.45	534.37	532.37	532.29	532.20	529.70	529.62	526.62	526.45	526.37	523.29	520.79	520.67	520.62	520.45	520.37	517.87	517.79	517.62	517.45	517.29	517.15	516.98	516.81	515.98	515.81	515.90	514.40	514.32	514.23	512.23	512.15	511.98	511.81	511.90	509.90	509.82
DESIGN FSL	534.98	534.81	534.65	534.48	534.31	534.23	532.15	532.06	529.56	529.48	526.31	526.23	523.15	520.65	520.53	520.48	520.31	520.26	520.09	520.01	517.51	517.43	517.26	517.09	516.93	516.76	516.59	515.62	515.54	514.23	514.15	514.06	512.06	511.98	511.81	511.73	509.73	509.46			
DESIGN BED LEVEL (DBL)	534.76	534.59	534.43	534.26	534.09	534.01	531.93	531.84	529.34	529.26	526.09	526.01	522.93	520.43	520.31	520.26	520.09	520.01	517.51	517.43	517.26	517.09	516.93	516.76	516.59	515.59	515.54	514.04	513.96	513.87	511.87	511.79	511.73	509.54	509.46						
NSL	534.81	534.65	534.50	534.35	534.20	534.05	531.95	531.85	529.35	529.27	526.10	526.02	522.94	520.44	520.32	520.27	520.10	520.02	517.52	517.44	517.27	517.10	516.94	516.77	516.60	515.60	515.55	514.05	513.97	513.88	511.88	511.80	511.74	509.55	509.47						
R.D	2000	2050	2100	2150	2200	2225	2225	2250	2275	2275	2300	2300	2350	2375	2400	2400	2435	2450	2500	2525	2525	2550	2550	2600	2650	2675	2675	2900	2950	2975	2975	3000									



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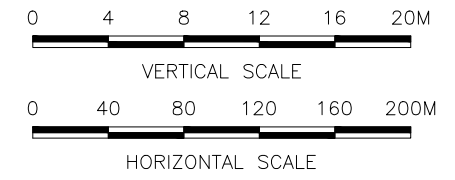
DESIGN DATA	PARABOLIC SECTION																														
	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3625	3625	3650	3700	3700	3750	3800	3800	3850	3900	3900	3950	4000	4000				
VELOCITY (m/sec)	0.96																														
MANNING'S n / TYPE	0.016																														
DISCHARGE (Cumec)	0.097																														
FSD (m)	0.19																														
BED WIDTH (m) PARABOLIC	PARABOLIC SECTION																														
BANK TOP LEVEL (BTL)	509.82	509.65	509.48	507.65	507.48	507.32	507.15	506.98	506.82	506.65	506.48	506.32	506.15	506.98	503.81	503.73	501.73	501.65	501.48	501.31	499.48	499.31	499.15	497.15	496.98	496.82	494.82	494.65	494.48	494.31	492.31
DESIGN FSL	509.65	509.48	507.31	507.15	506.98	506.81	506.65	506.48	506.31	506.15	505.98	505.81	503.64	503.56	501.56	501.48	501.31	499.31	499.14	498.98	498.79	496.98	496.81	496.65	494.65	494.48	494.29	494.12	494.81	492.31	
DESIGN BED LEVEL (DBL)	509.46	509.29	507.12	506.96	506.79	506.62	506.46	506.29	506.12	505.96	505.79	505.62	503.45	503.37	501.37	501.29	501.12	499.12	498.95	498.79	496.79	496.62	496.46	494.46	494.29	494.12	494.81	492.12			
NSL	511.23	510.10	508.79	508.00	508.00	508.00	508.00	508.00	508.00	508.00	507.26	506.12	504.76	504.16	504.16	503.48	501.79	501.79	500.43	499.02	499.02	498.32	497.08	497.08	496.04	494.81	494.81	494.81	492.81		
R.D	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3625	3625	3650	3700	3700	3750	3800	3800	3850	3900	3900	3950	4000	4000				

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER

LEGEND

- AQUEDUCT
- MAIN CANAL
- EXISTING ROAD
- VILLAGES/HOUSES
- EXISTING COMMAND AREA
- CONTOUR
- OUTLET
- DRAINAGE CULVERT
- NULLAH
- BANK
- FSL
- BED
- NSL



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

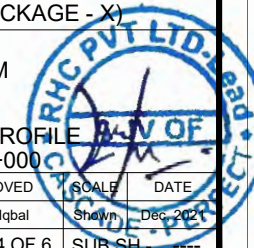
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMCG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

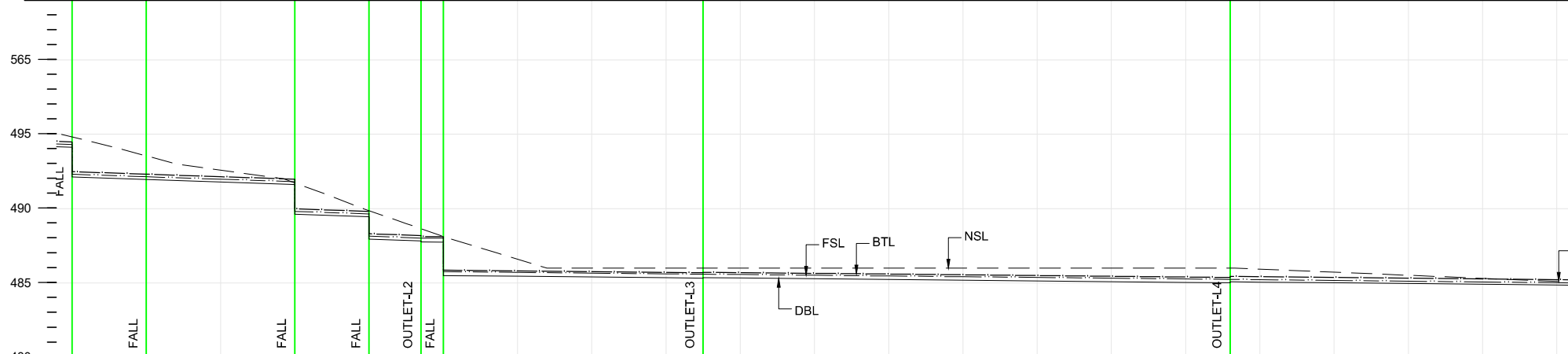
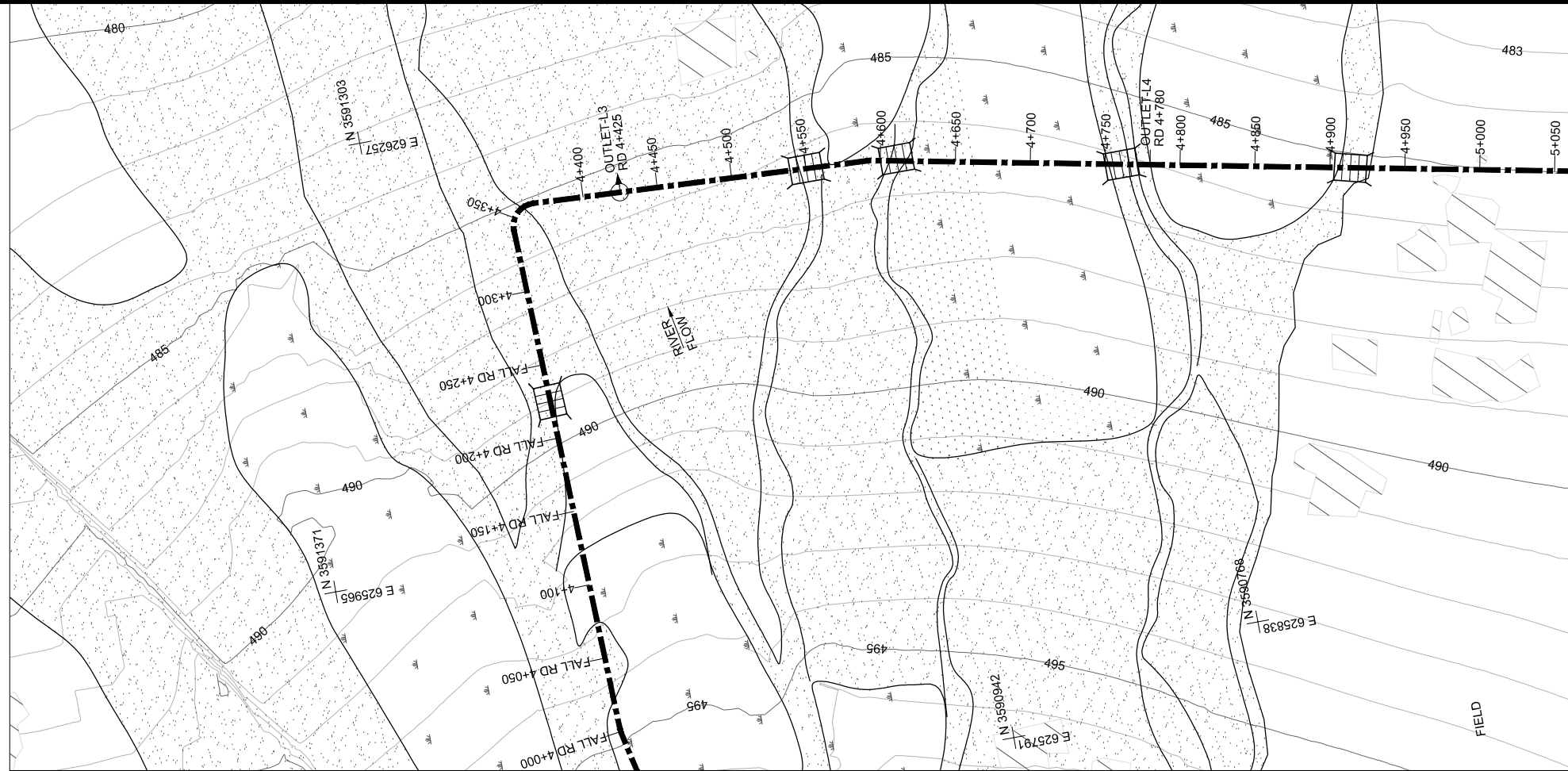
TITLE: **GHOZHEZAI DAM T.S.D TANK**
MAIN CANAL PLAN & PROFILE
RD 3+000 TO RD 4+000

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- SHD-BD-IR-03 SHEET:-04 OF 6 SUB SH.



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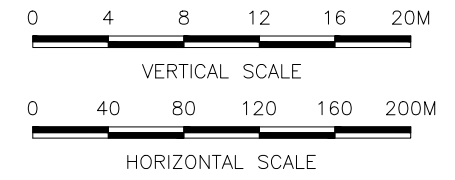
DESIGN DATA	DATUM LINE		
	480	490	
VELOCITY (m/sec)	0.96	0.60	
MANNING'S n / TYPE	0.016	0.016	
DISCHARGE (Cumec)	0.097	0.079	
FSD (m)	0.19	0.23	
BED WIDTH (m) PARABOLIC	PARABOLIC SECTION		
BANK TOP LEVEL (BTL)	494.48 492.48	492.31 492.14 491.98 489.98 489.81 488.31 488.19 488.02 488.11 488.01 485.76 485.86 485.81 485.76 485.71 485.61 485.69 485.59 485.72 485.70 485.65 485.60 485.55 485.50 485.45 485.40 485.37 485.24 485.44 485.42 485.37 485.32 485.27 485.22 485.17 485.12 485.07 485.22	
DESIGN FSL	494.31 492.31	492.14 491.97 491.81 489.81 489.64 488.14 488.02 488.01 488.01 485.76 485.71 485.66 485.61 485.59 485.59 485.57 485.52 485.47 485.42 485.37 485.32 485.27 485.24 485.24 485.22 485.17 485.12 485.07 485.02	
DESIGN BED LEVEL (DBL)	494.12 492.12	491.95 491.78 491.62 489.62 489.45 487.95 487.83 488.02 487.76 488.01 485.50 485.45 485.40 485.35 485.33 485.36 485.34 485.29 485.24 485.19 485.14 485.09 485.04 485.01 485.08 485.06 485.01 484.96 484.91 484.86	
NSL	494.81 494.81	493.54 492.59 491.72 491.72 489.86 489.86 488.65 488.53 488.76 488.13 486.60 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 486.00 485.72 485.52 485.31 485.11	
R.D	4000 4000	4050 4100 4150 4200 4235 4255 4250	4300 4350 4400 4425 4450 4500 4550 4600 4650 4700 4750 4780 4800 4850 4900 4950 5000

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER

LEGEND

- AQUEDUCT
- MAIN CANAL
- EXISTING ROAD
- VILLAGES/HOUSES
- EXISTING COMMAND AREA
- CONTOUR
- OUTLET
- DRAINAGE CULVERT
- NULLAH
- BANK
- FSL
- BED
- NSL



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

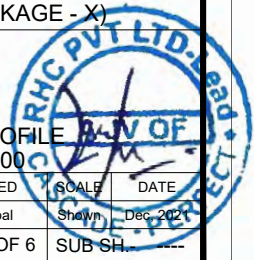
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMCO PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

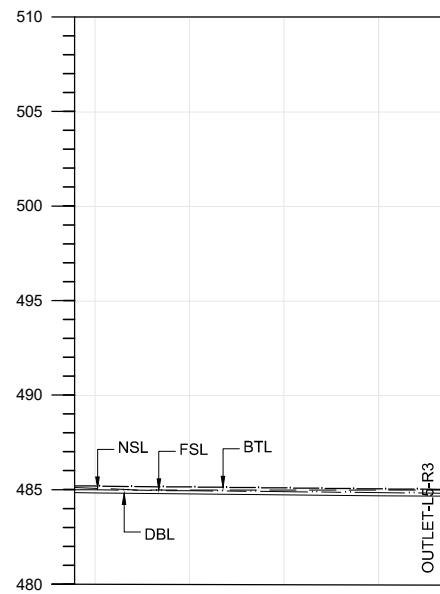
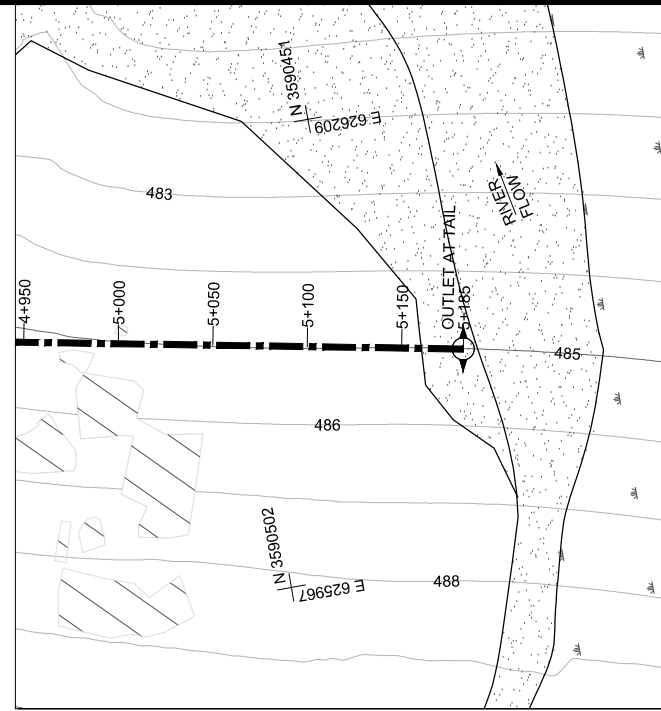
TITLE: **GHOZHEZAI DAM T.S.D TANK**
MAIN CANAL PLAN & PROFILE
RD 4+000 TO RD 5+000

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- SHD-BD-IR-03 SHEET:-05 OF 6 SUB SH.



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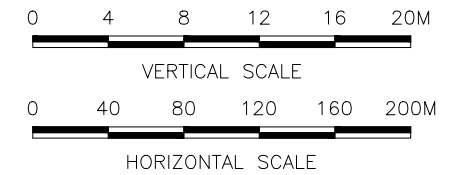
DESIGN DATA	
VELOCITY (m/sec)	0.46
MANNING'S n / TYPE	0.016
DISCHARGE (Cumec)	0.030
FSD (m)	0.16
BED WIDTH (m) PARABOLIC	PARABOLIC SECTION
BANK TOP LEVEL (BTL)	485.22 485.17 485.12 485.07 485.04
DESIGN FSL	485.02 484.97 484.92 484.87 484.84
DESIGN BED LEVEL (DBL)	484.86 484.81 484.76 484.71 484.68
NSL	485.11 485.00 485.00 485.00 485.00
R.D	5000 5050 5100 5150 5185

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER

LEGEND

- AQUEDUCT
- MAIN CANAL
- EXISTING ROAD
- VILLAGES/HOUSES
- EXISTING COMMAND AREA
- CONTOUR
- OUTLET
- DRAINAGE CULVERT
- NULLAH
- BANK
- FSL
- BED
- NSL



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

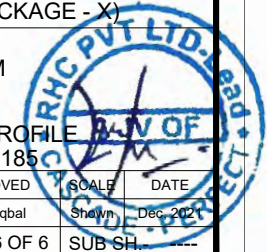
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP
OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

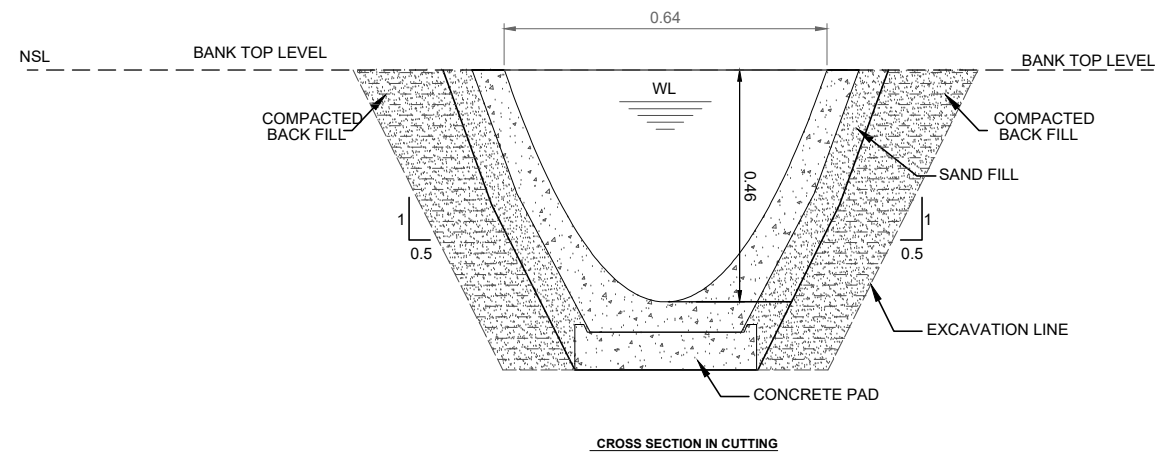
TITLE:
GHOZHEZAI DAM
T.S.D TANK
MAIN CANAL PLAN & PROFILE
RD 5+000 TO RD 5+185

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	1:1	Dec-2021

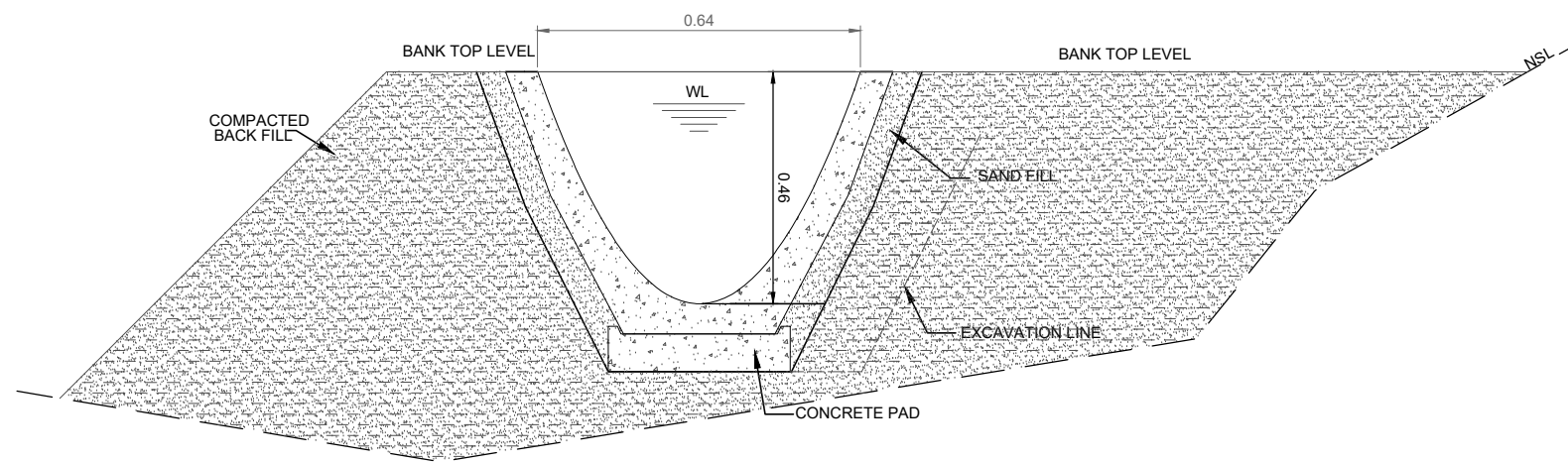
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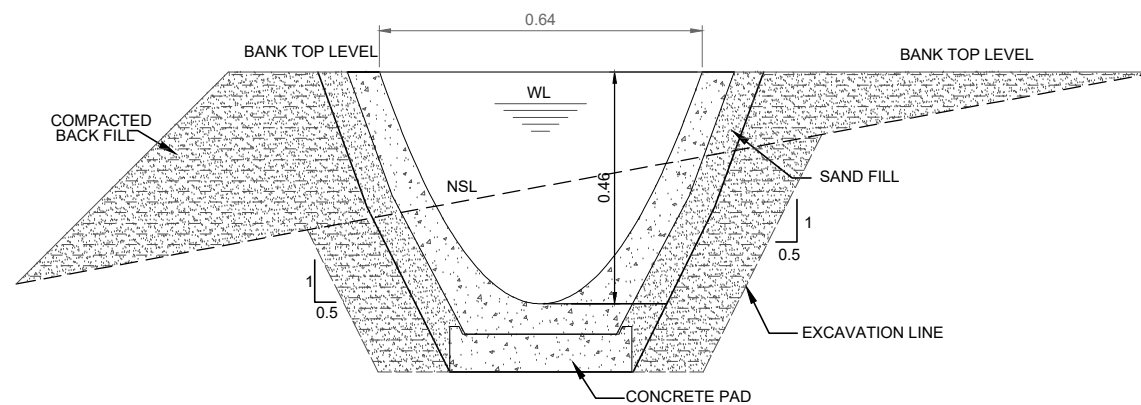
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CROSS SECTION IN CUTTING



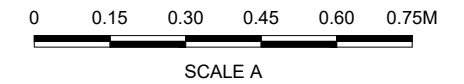
CROSS SECTION IN FILLING



CROSS SECTION IN CUTTING & FILLING

NOTES:-

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS INDICATED OTHERWISE.



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

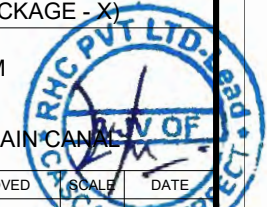
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

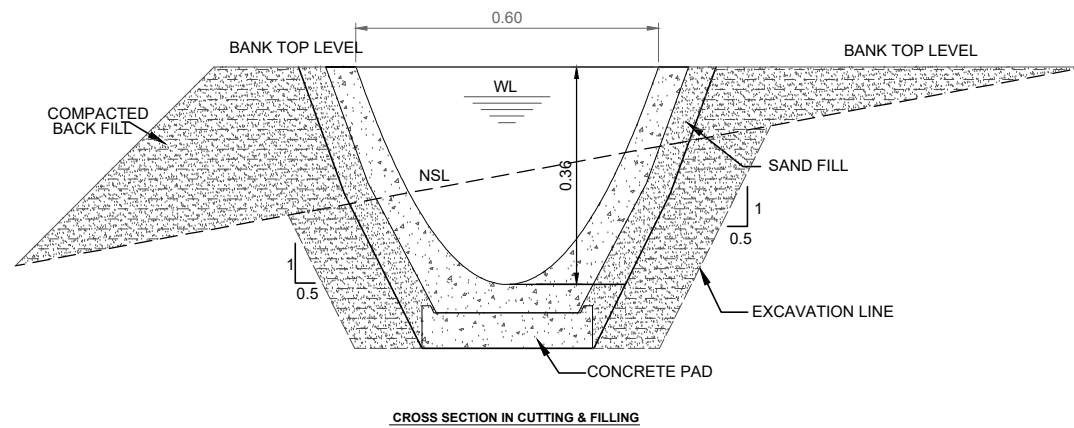
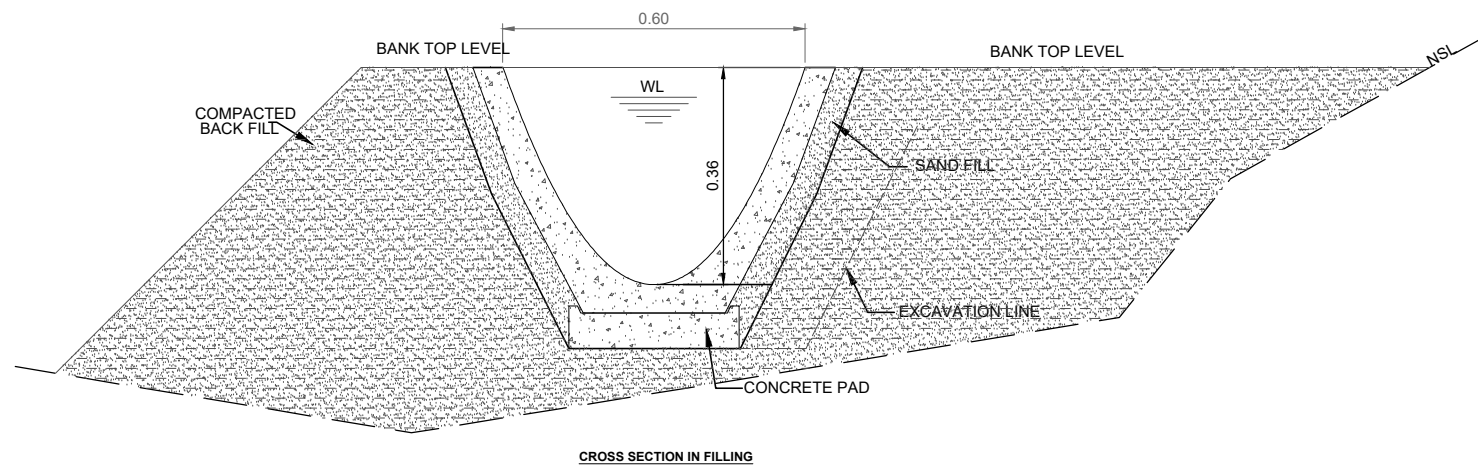
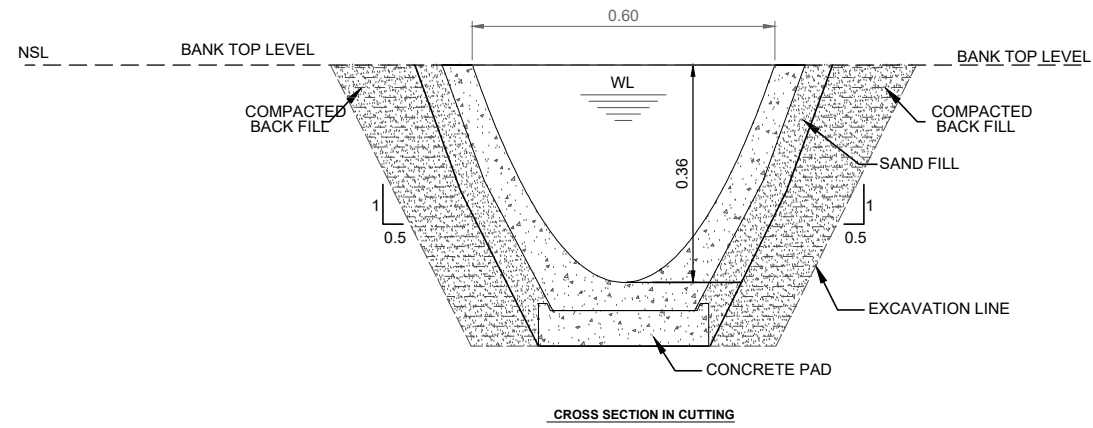
TITLE:
GHOZHEZAI DAM
T.S.D TANK
TYPICAL SECTIONS OF MAIN CANAL

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- SHD-BD-IR-04 SHEET:- 1 OF 2 SUB SH. ---

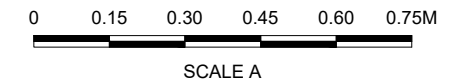


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NOTES:-

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REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

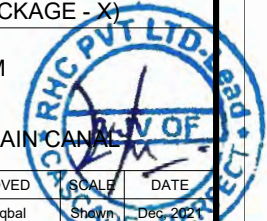
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP
OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

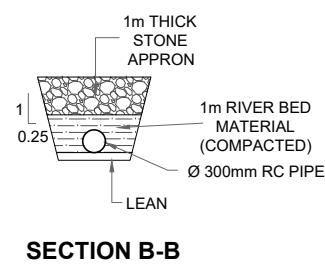
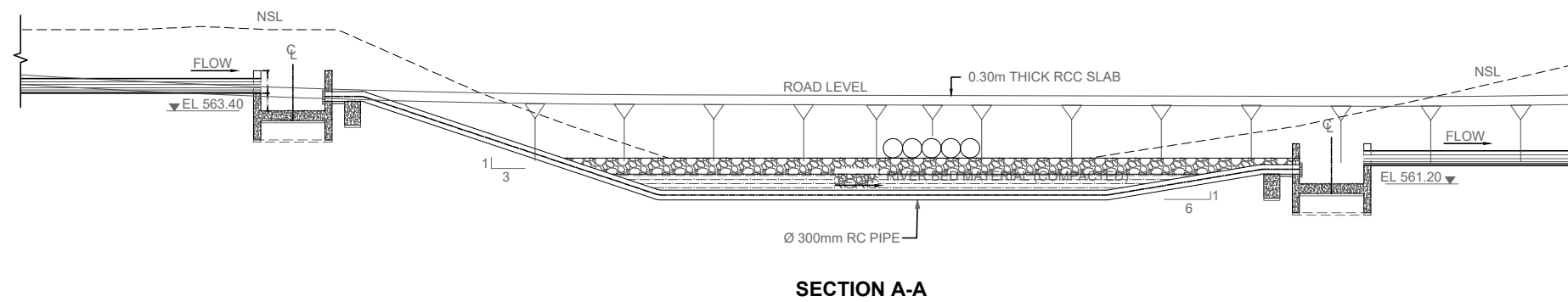
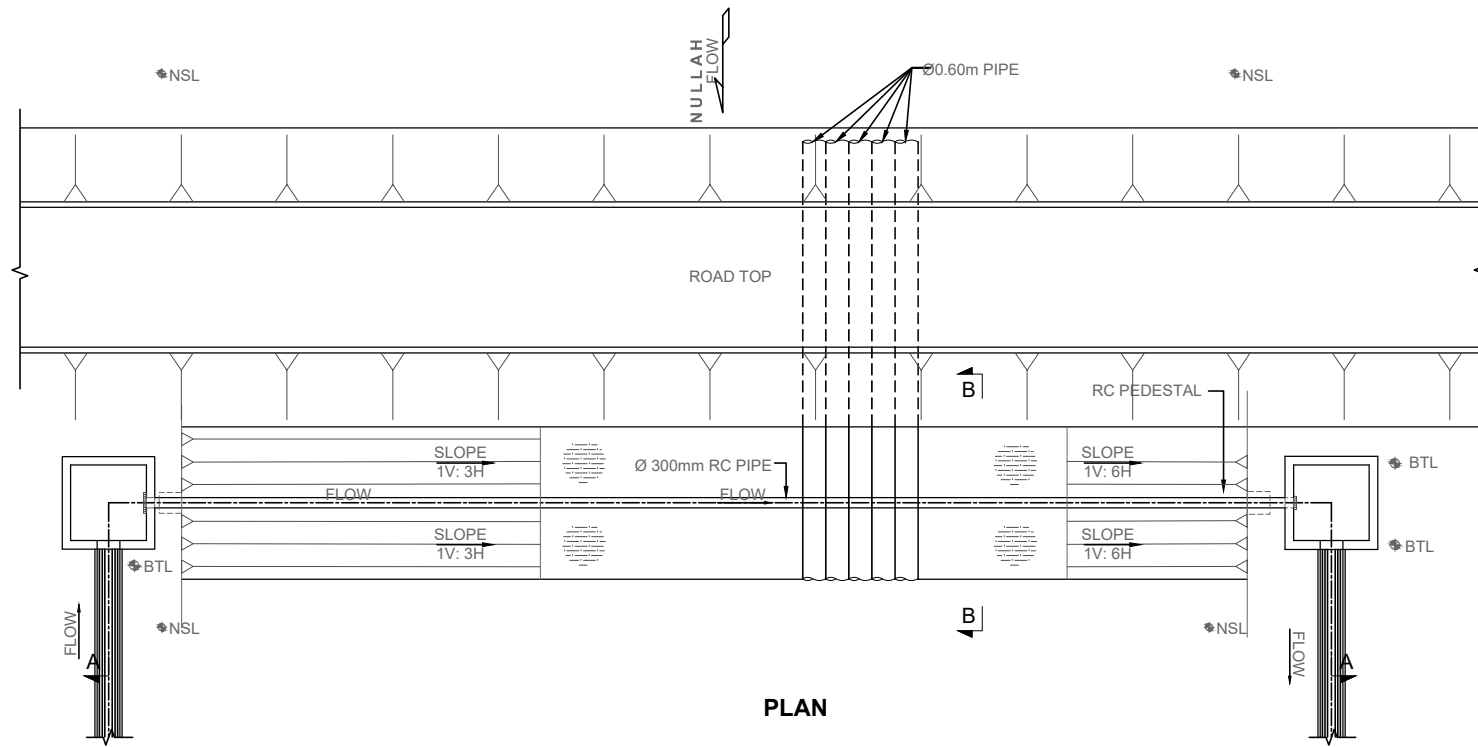
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GHOZHEZAI DAM
T.S.D TANK
TYPICAL SECTIONS OF MAIN CANAL

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- SHD-BD-IR-04 SHEET:- 2 OF 2 SUB SH.



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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

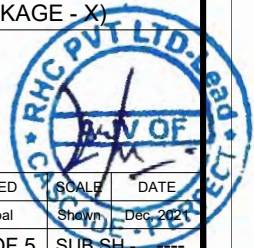
 CASCADE GROUP
OF ENGINEERING & CONSULTANTS

 PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

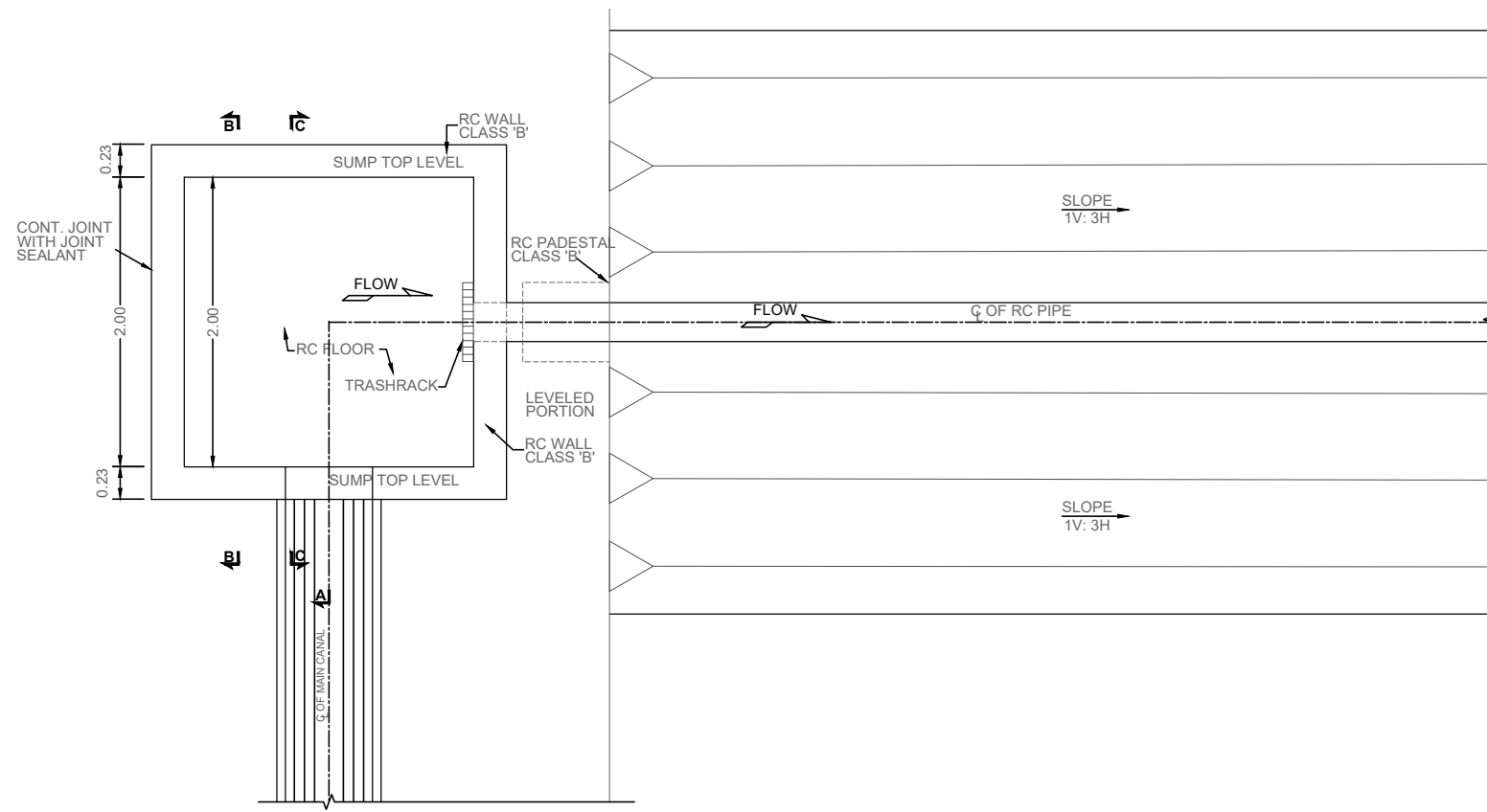
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
SYPHON AT RD 0+610
PLAN AND SECTION

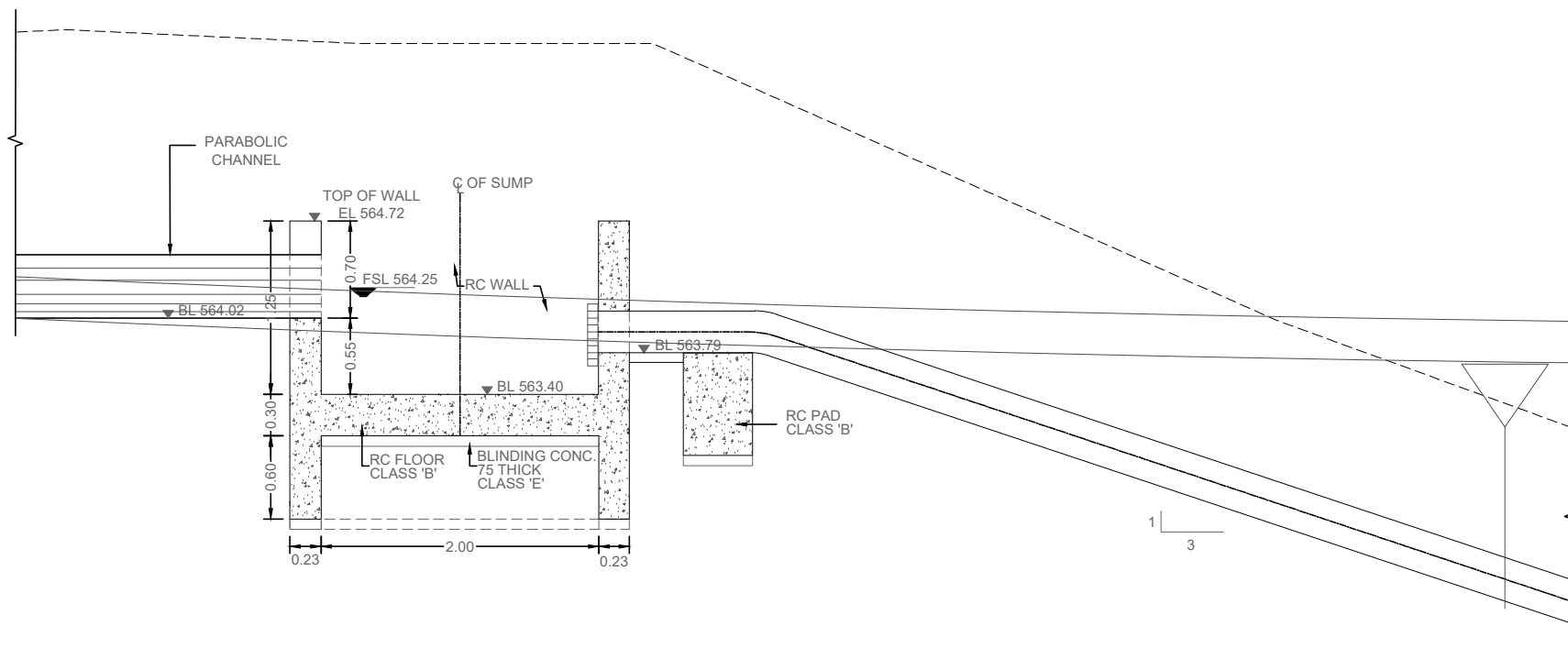
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shawn	Dec-2021
DRG.No:-	SHD-BD-IR-05	SHEET:- 1 OF 5	SUB SH.		



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U/S PART PLAN

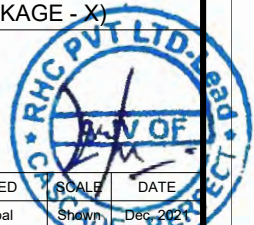


SECTION A-A

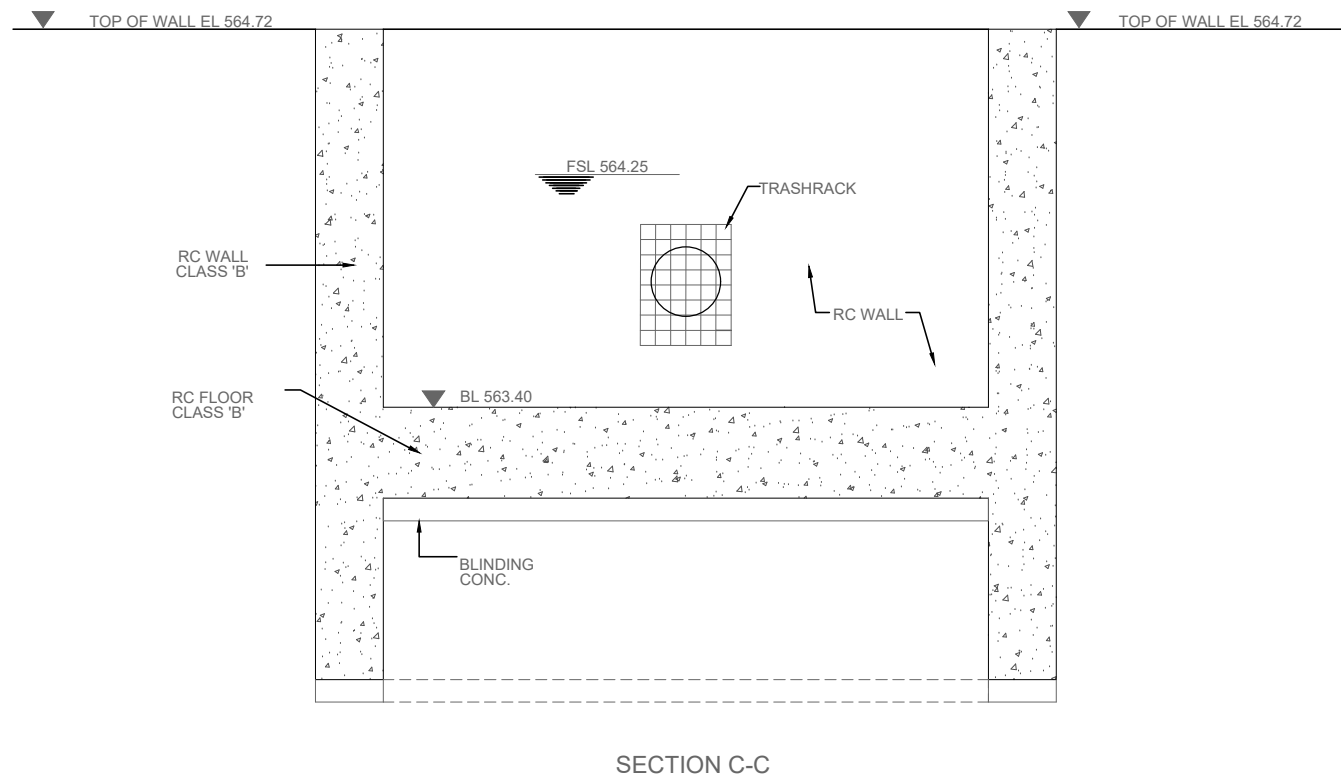
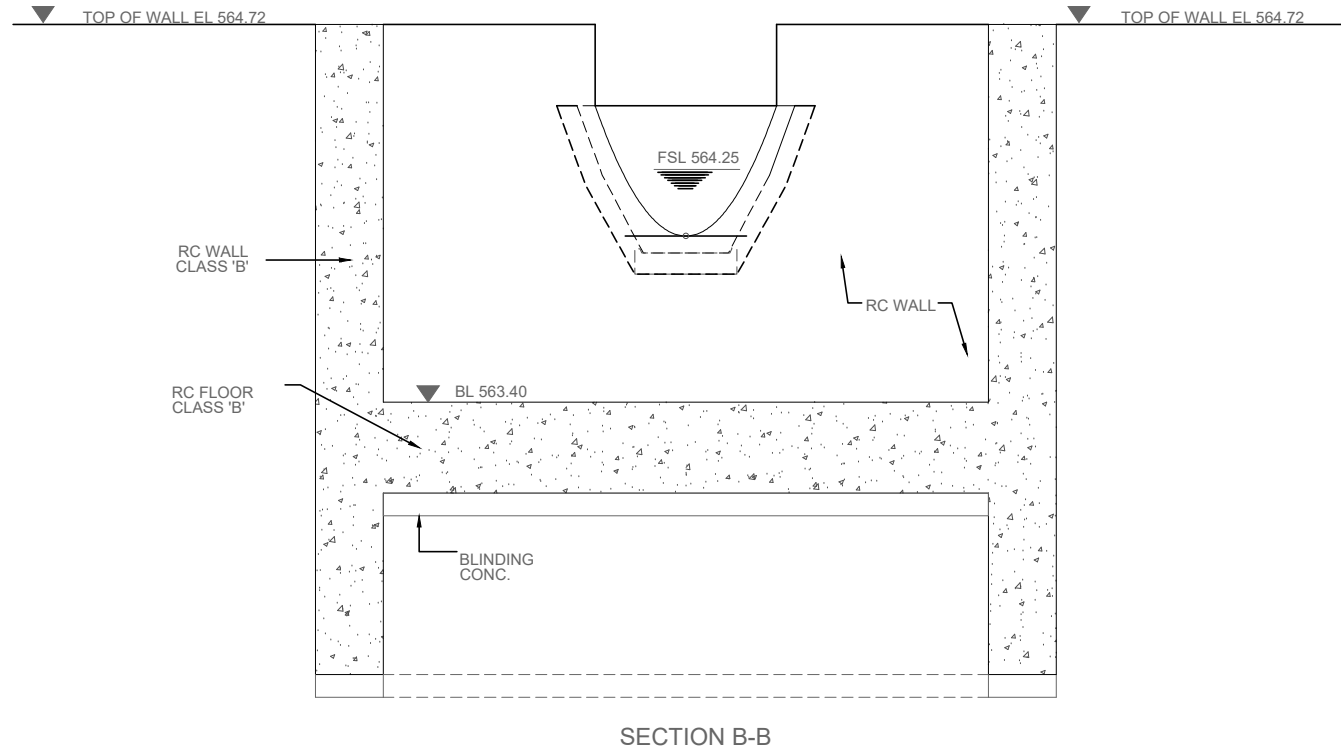
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CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.					
CONSULTANTS: A J.V OF RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS					
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)					
TITLE: GHOZHEZAI DAM T.S.D TANK SYPHON AT RD 0+610 PLAN AND SECTION					
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shawn	Dec-2021
DRG.No:- SHD-BD-IR-05		SHEET:- 2 OF 5		SUB SH.	



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NOTES:



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REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

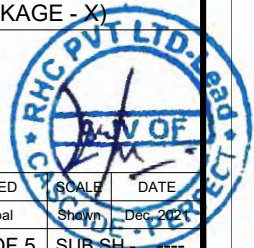
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

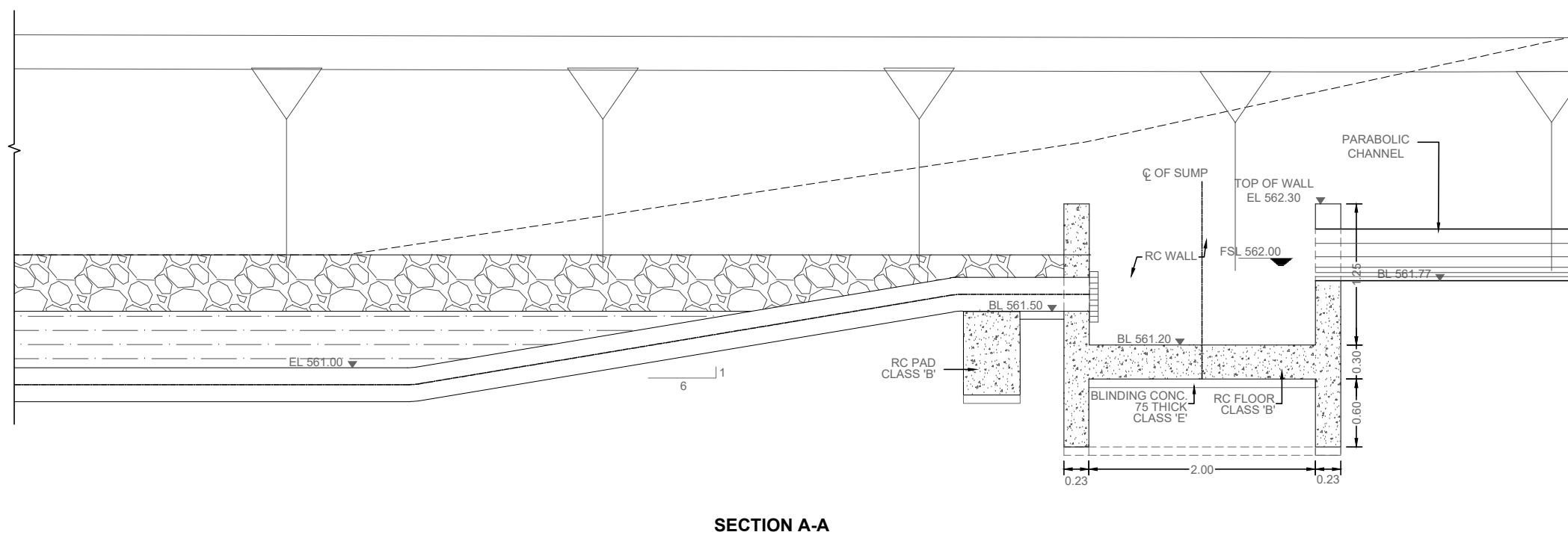
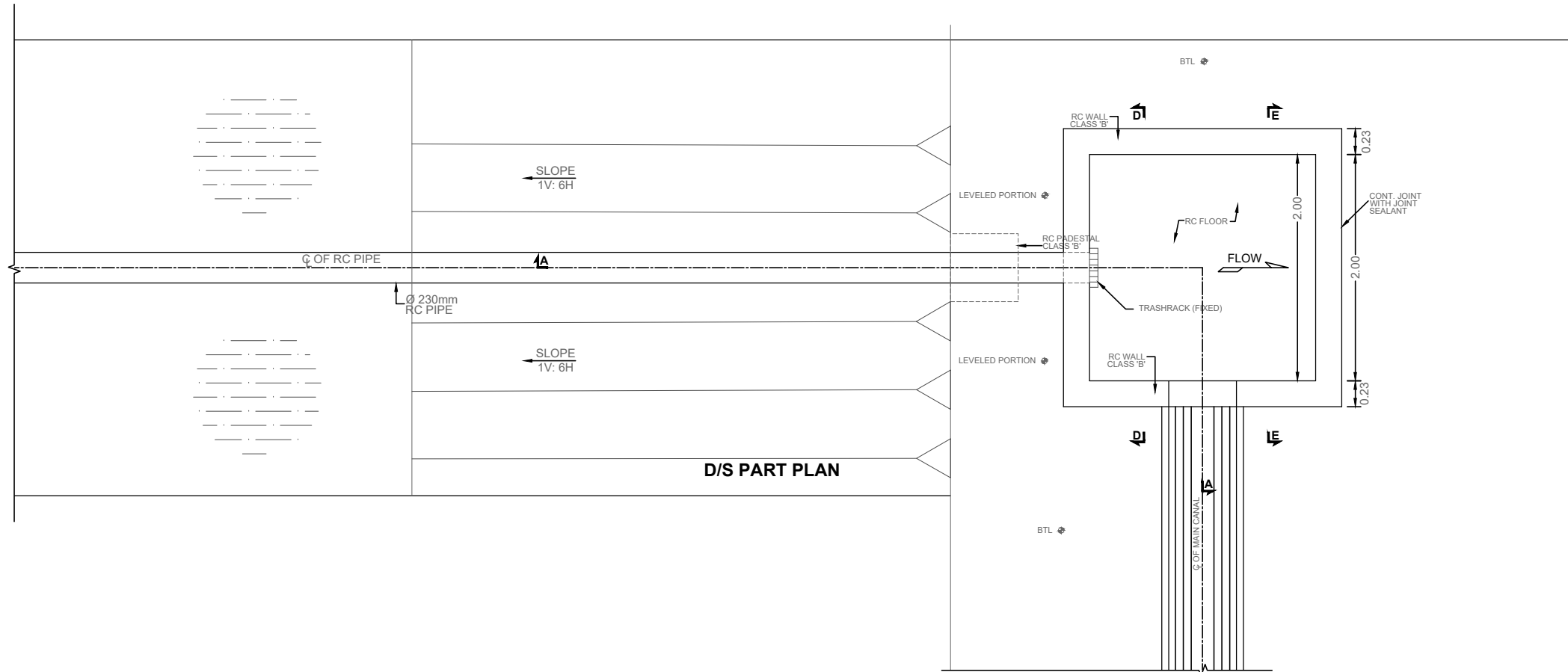
TITLE:
GHOZHEZAI DAM
T.S.D TANK
SYPHON AT RD 0+610
SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shawn	Dec-2021

DRG.No:- SHD-BD-IR-05 SHEET:- 3 OF 5 SUB SH. ---



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SECTION A-A

NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS UNLESS INDICATED OTHERWISE.

REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

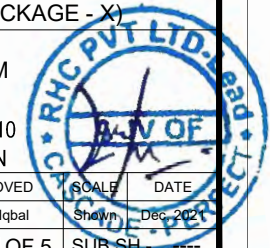
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

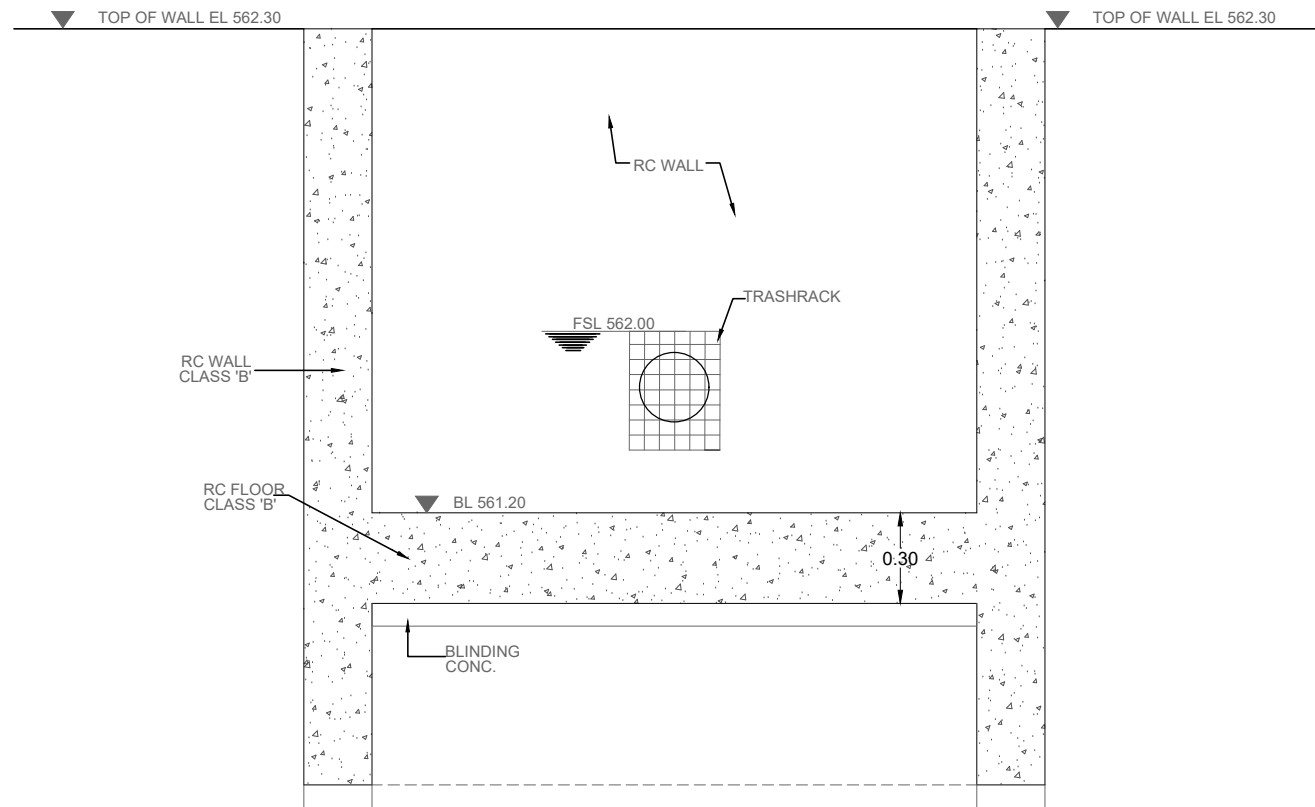
TITLE:
GHOZHEZAI DAM T.S.D TANK
SYPHON AT RD 0+610
PLAN AND SECTION

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

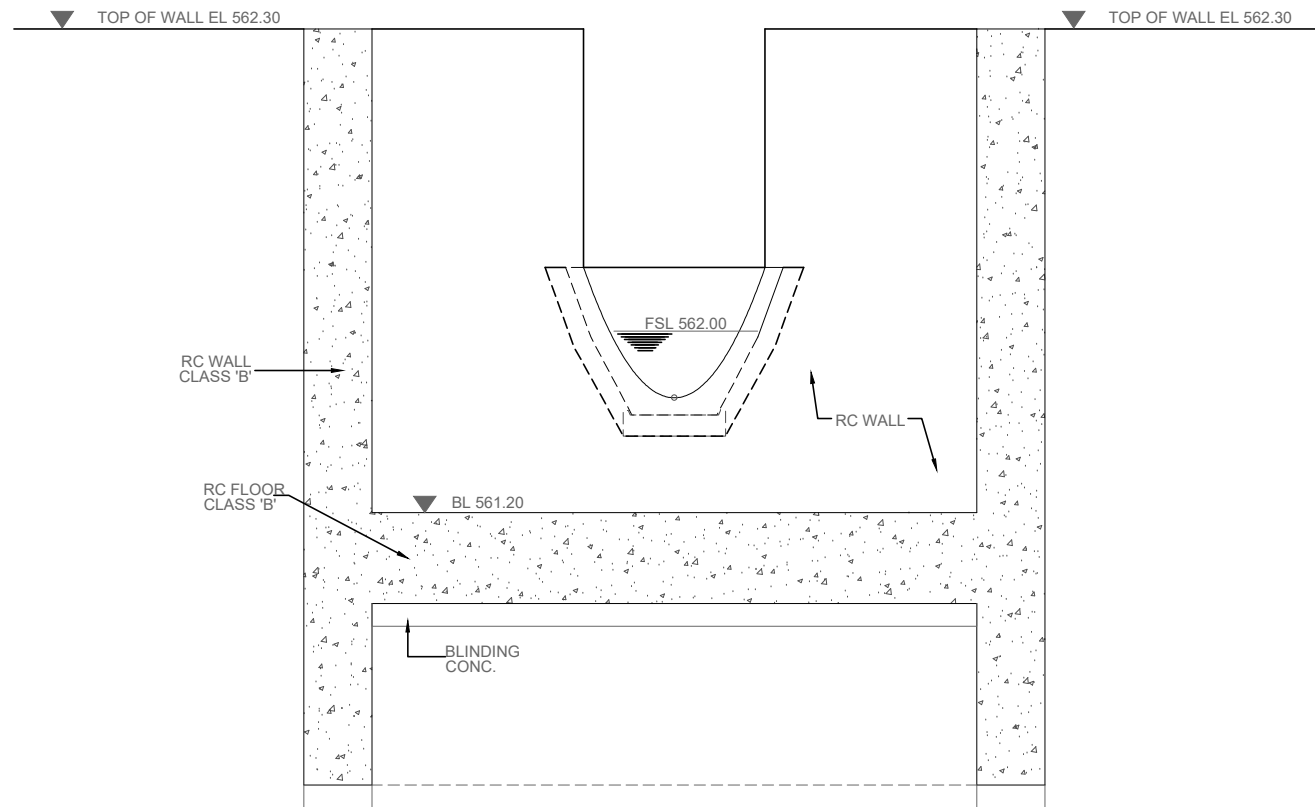
DRG.No:- SHD-BD-IR-05 SHEET:- 4 OF 5 SUB SH. ---



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SECTION D-D

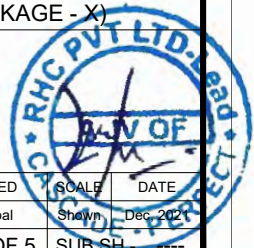


SECTION E-E

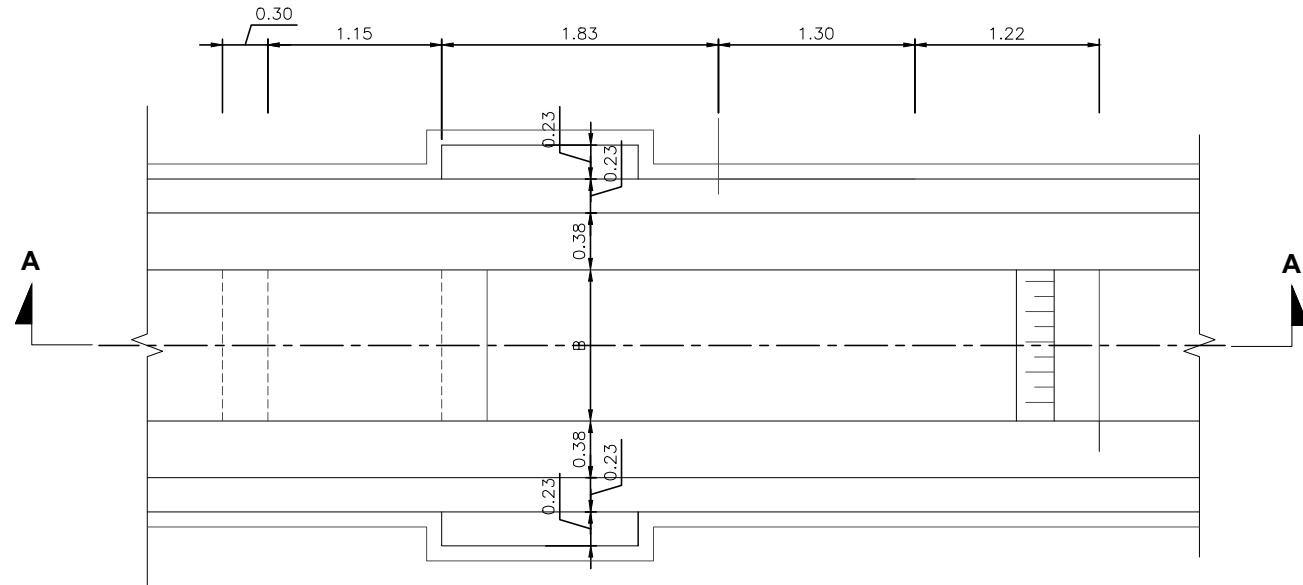
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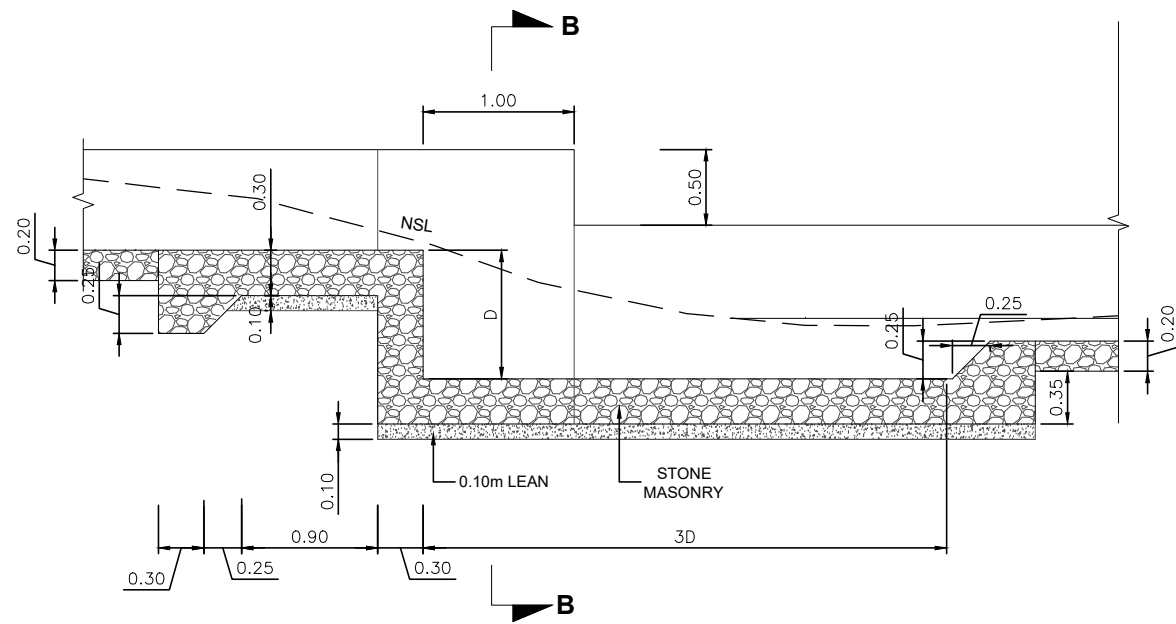
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CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.					
CONSULTANTS: A J.V OF RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS					
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)					
TITLE: GHOZHEZAI DAM T.S.D TANK SYPHON AT RD 0+610 SECTIONS					
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shawn	Dec-2021
DRG.No:- SHD-BD-IR-05		SHEET:- 5 OF 5		SUB SH. ---	



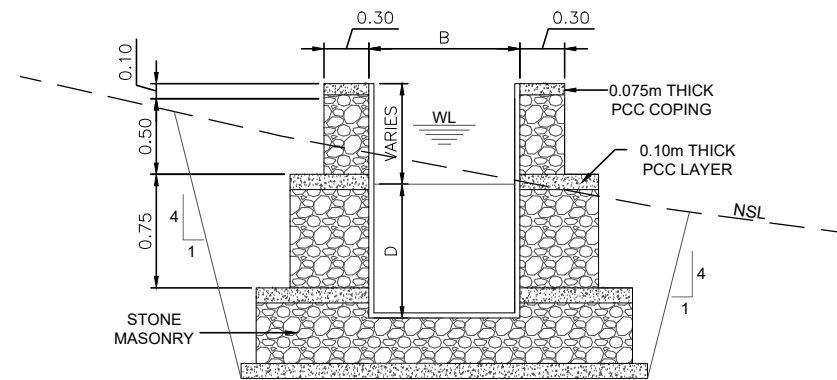
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TYPICAL CANAL FALL PLAN



CANAL FALL LONGITUDINAL SECTION A-A



CANAL FALL CROSS SECTION B-B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF **RHC** REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

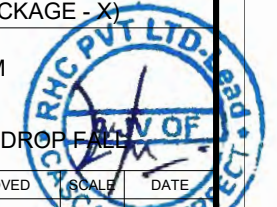
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM T.S.D TANK

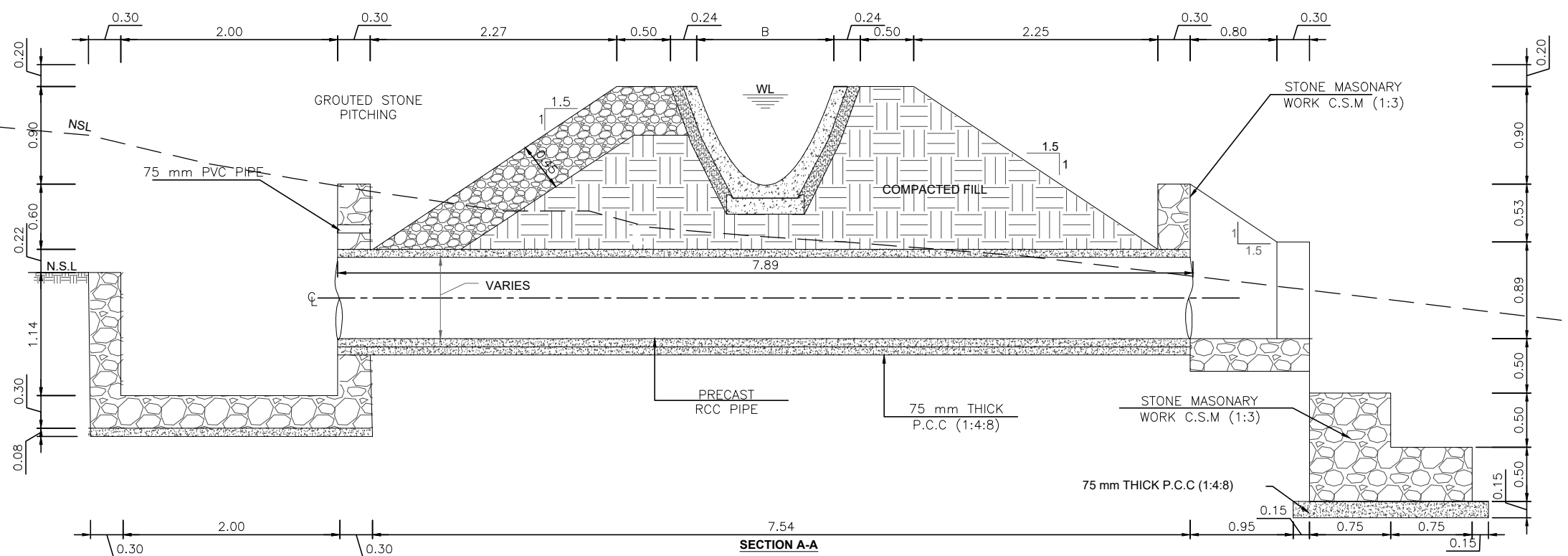
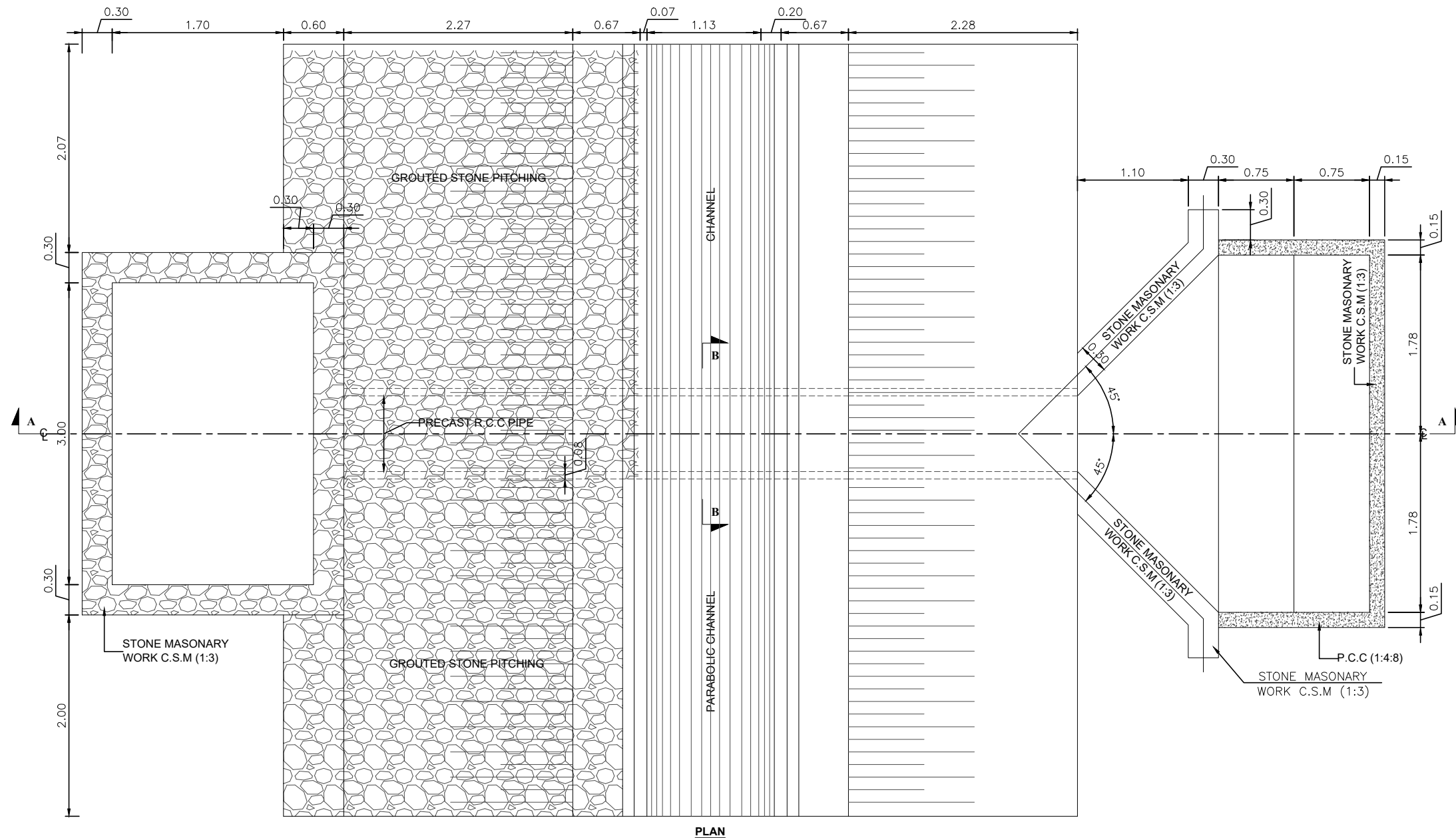
TITLE: TYPICAL CANAL VERTICAL DROP FALL

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-IR-06 SHEET:- 1 OF 1 SUB SH. ---

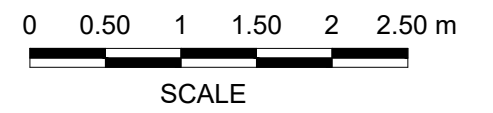


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NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR DRAFT FEASIBILITY ONLY

CLIENT:
MERGED AREAS DEVELOPMENT AUTHORITY
SMALL DAM SECTION
IRRIGATION DEPARTMENT. KPK.

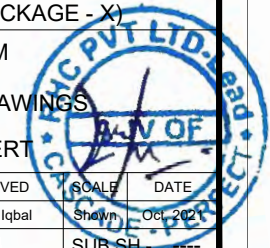
CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMGC PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

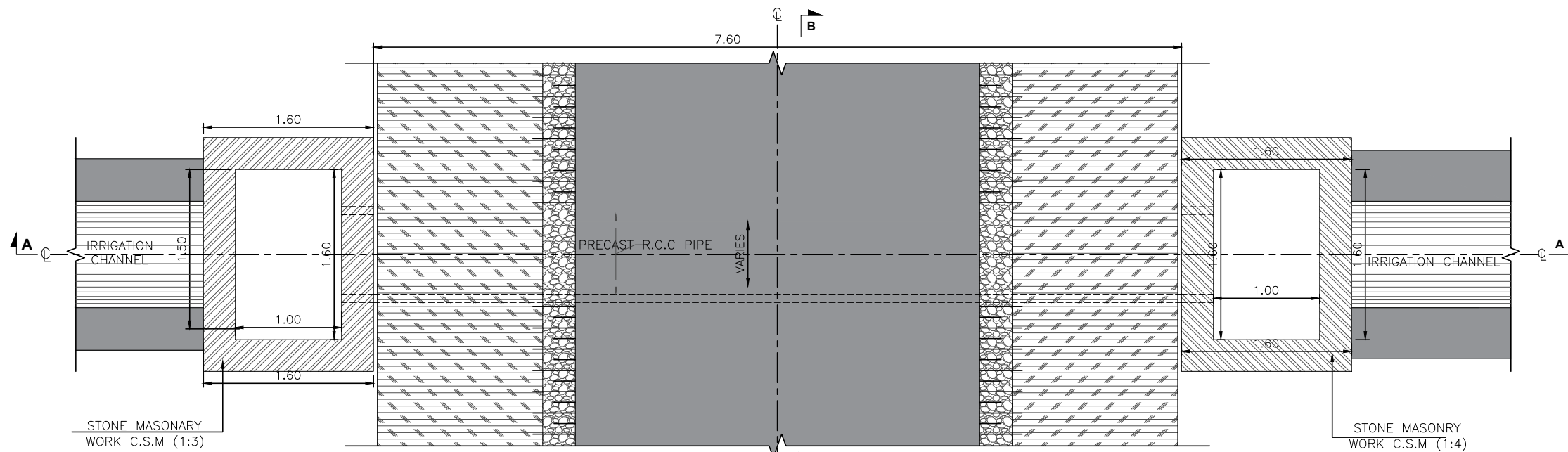
TITLE:
GHOZHEZAI DAM
F.R. TANK
DRAFT FEASIBILITY DRAWINGS
DRAINAGE CULVERT

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Oct 2021

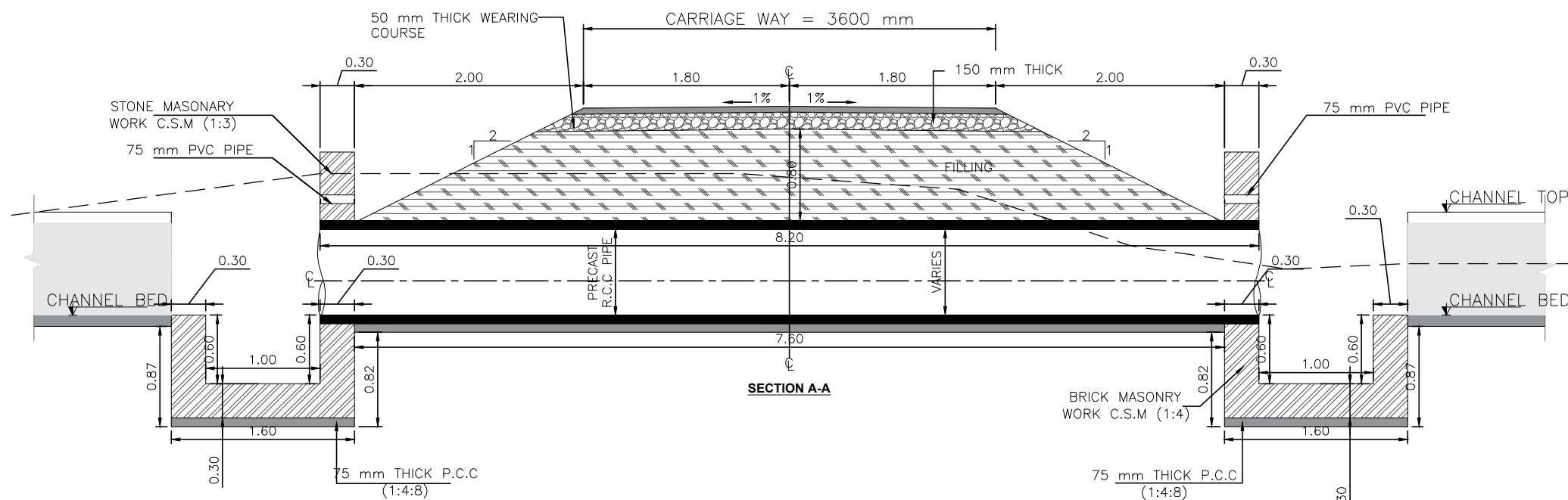
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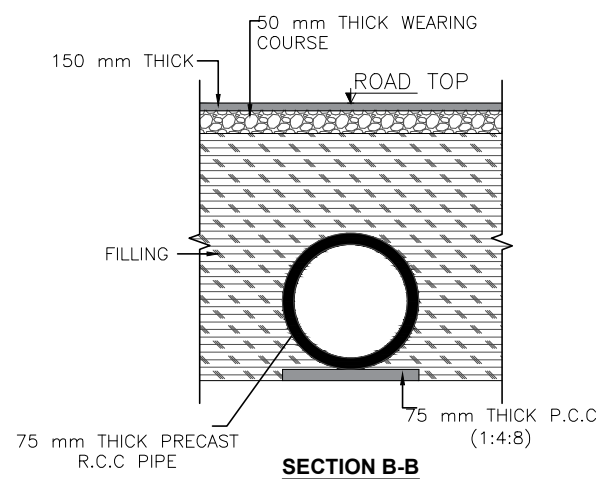
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PLAN



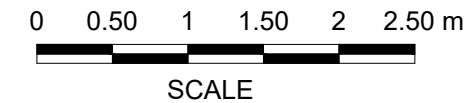
SECTION A-A



SECTION B-B

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.



REFERENCE DRAWINGS :-

FOR SECTIONS SEE DRG. NO. GHD-BD-IR-03
FOR INTAKE DETAIL SEE DRG. NO. GHD-BD-IR-03

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CLIENT:
MERGED AREAS DEVELOPMENT AUTHORITY
SMALL DAM SECTION
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
F.R. TANK
DRAFT FEASIBILITY DRAWINGS

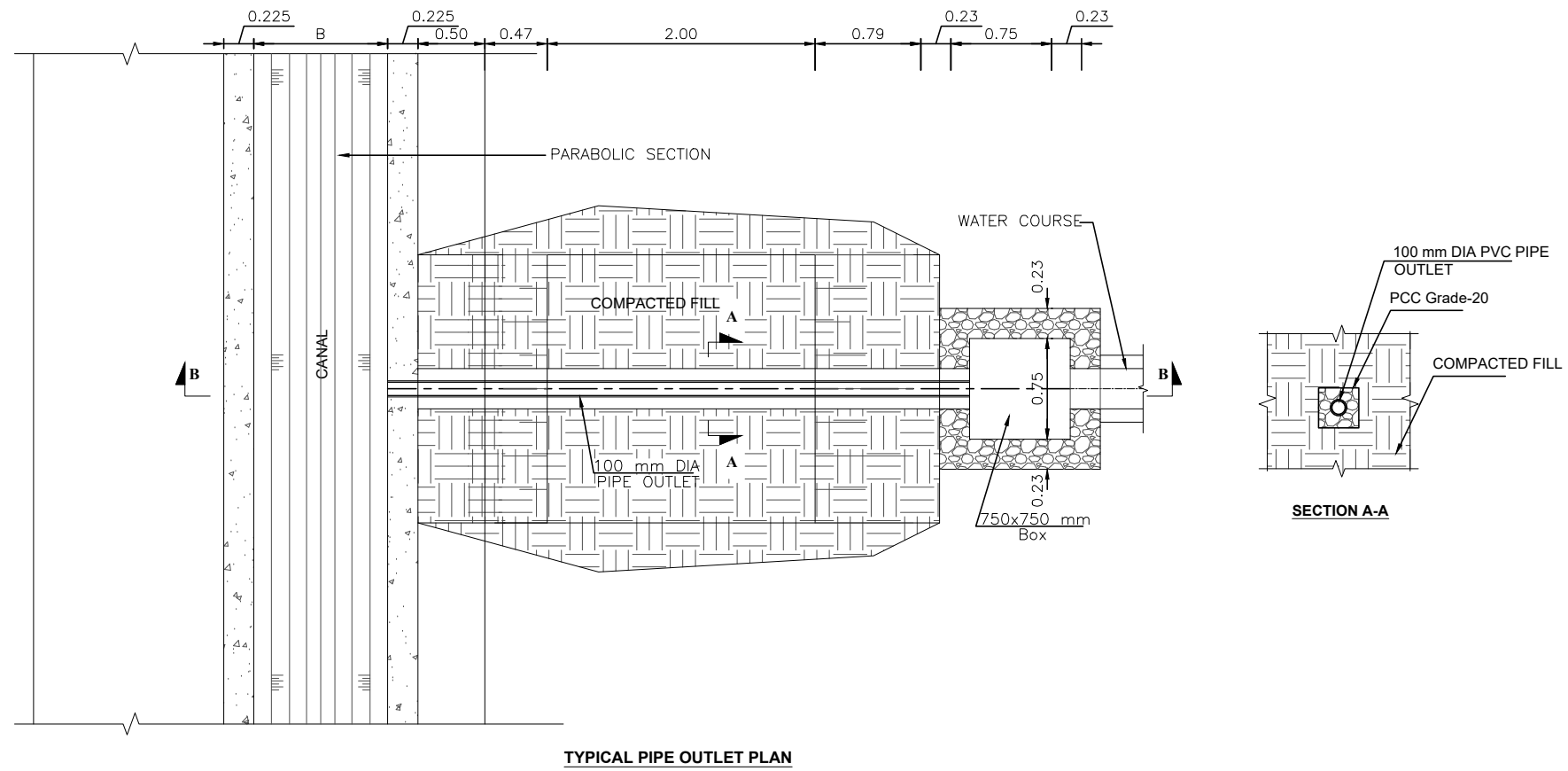
TITLE:
ROAD CULVERT

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Oct 2021

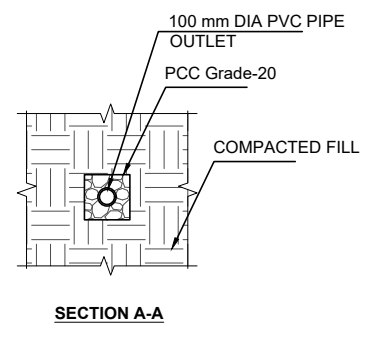
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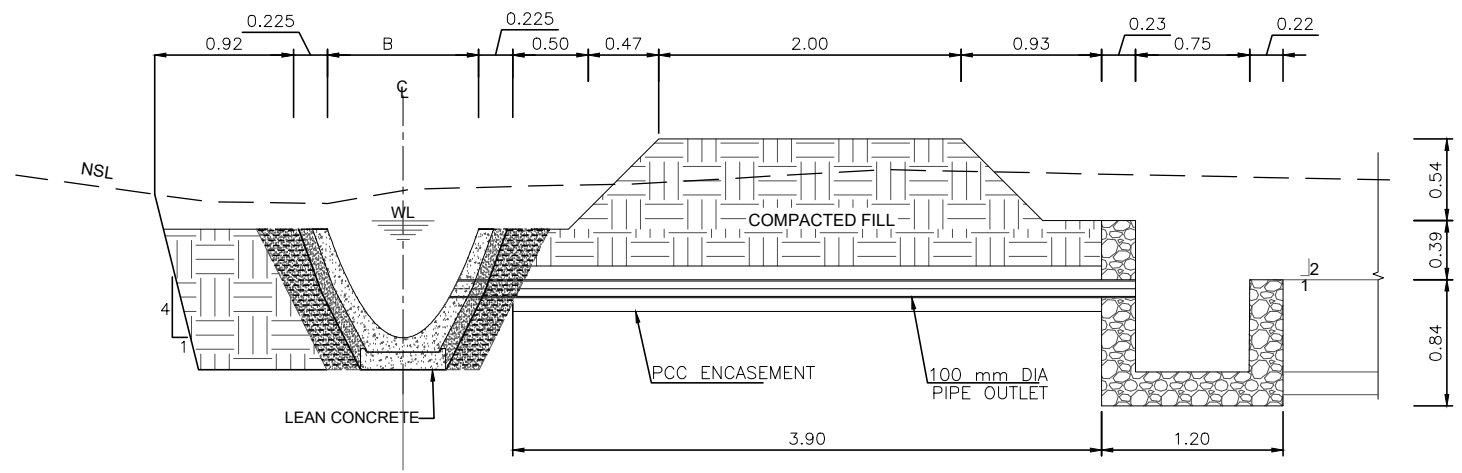
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TYPICAL PIPE OUTLET PLAN



SECTION A-A



TYPICAL PIPE OUTLET CROSS SECTION B-B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

REFERENCE DRAWINGS :-

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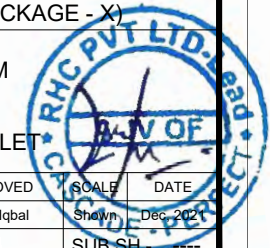
CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

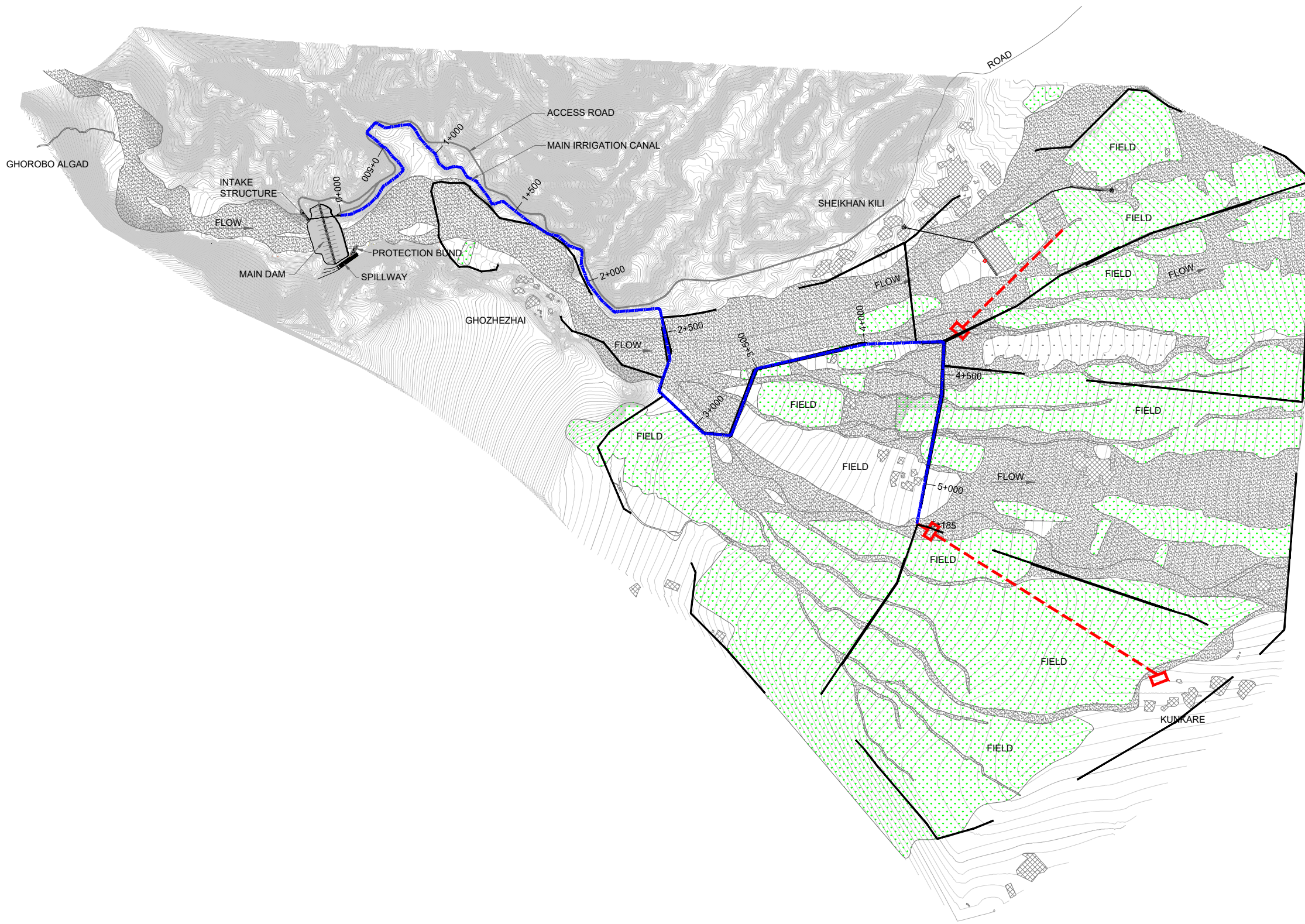
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
TYPICAL PIPE OUTLET

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021
DRG.No:- GHD-BD-IR-09			SHEET:-		SUB SH.---



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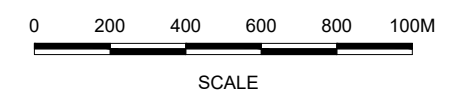
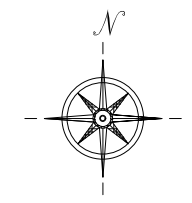


NOTES:-

- ALL LEVELS AND DIMENSIONS ARE IN METER UNLESS INDICATED OTHERWISE.

LEGEND:

- MAIN CANAL
- ACCESS ROAD
- CHACKBANDI
- CONTOUR MAJOR 845
- CONTOUR MINOR 847
- FIELD
- HOUSE
- EXISTING ROADS
- WATER SUPPLY



REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

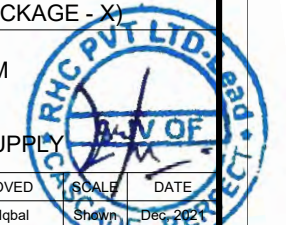
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

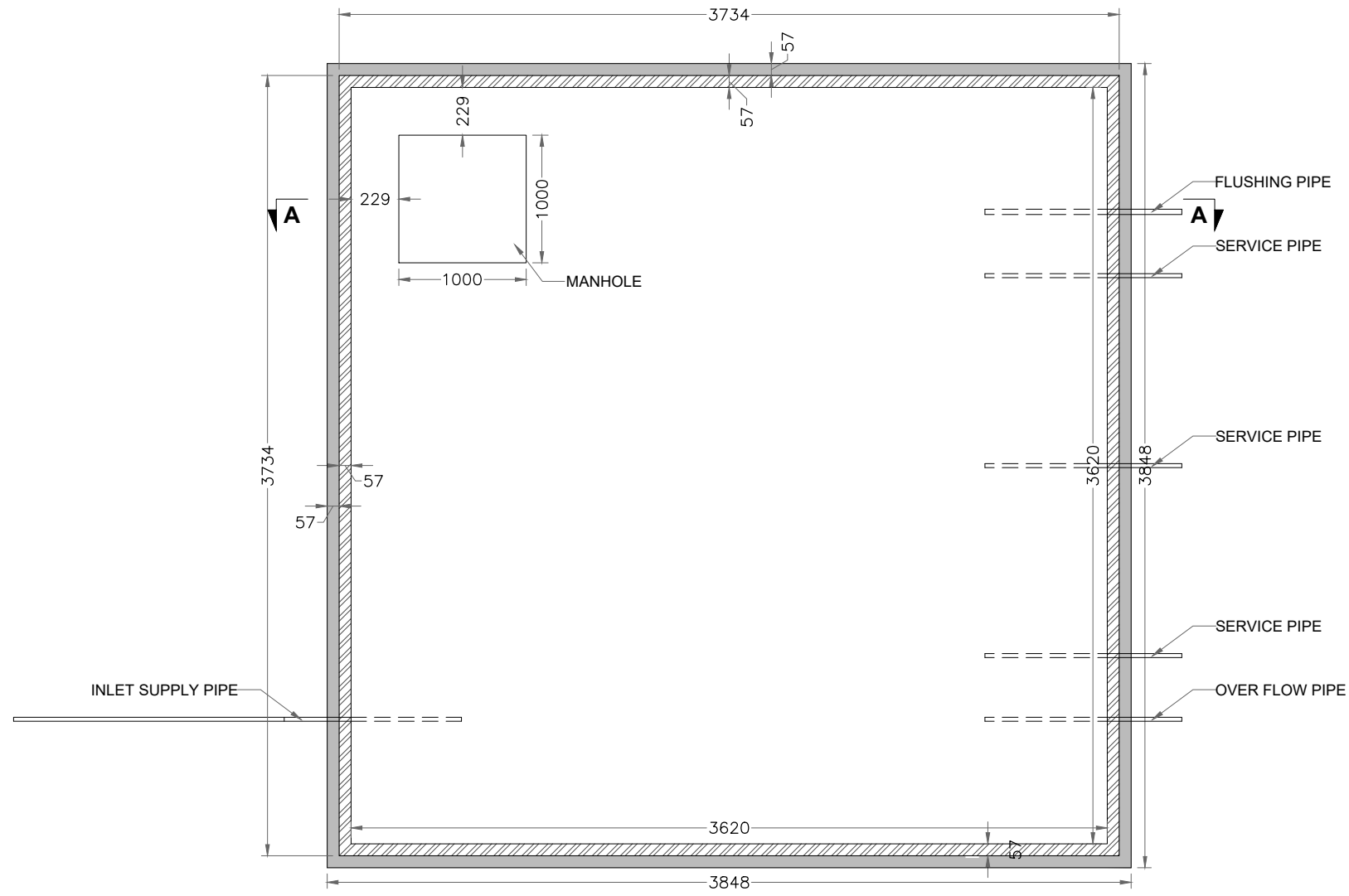
TITLE:
GHOZHEZAI DAM
T.S.D TANK
DRINKING WATER SUPPLY

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

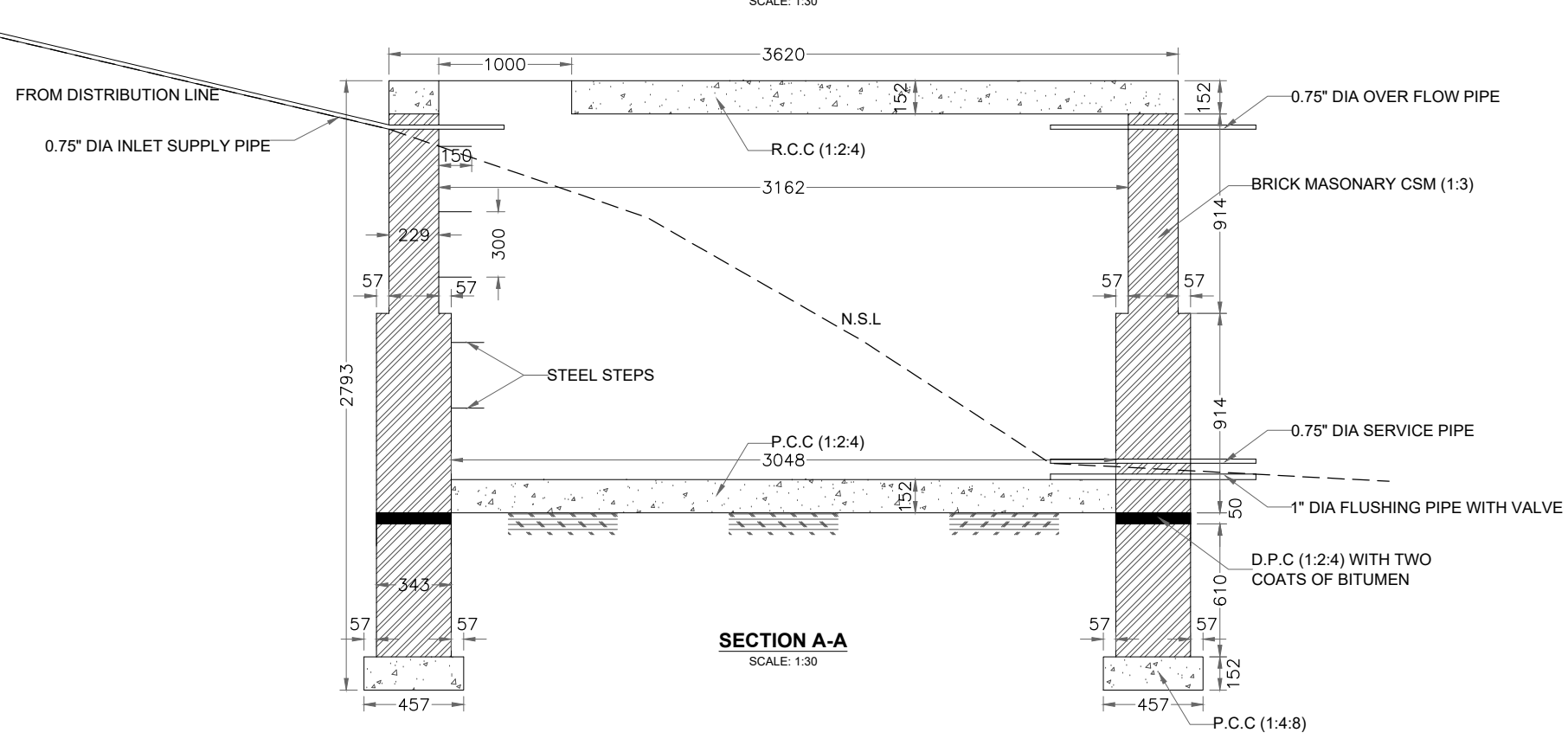
DRG.No:- GHD-BD-WS-01 SHEET:- 1 OF 1 SUB SH. ---



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PLAN
SCALE: 1:30



SECTION A-A
SCALE: 1:30

NOTES:

1. ALL DIMENSIONS & LEVELS ARE IN MILI METERS UNLESS OTHER WISE SPECIFIED.

REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

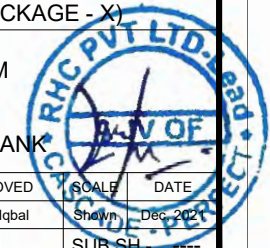
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CGE CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

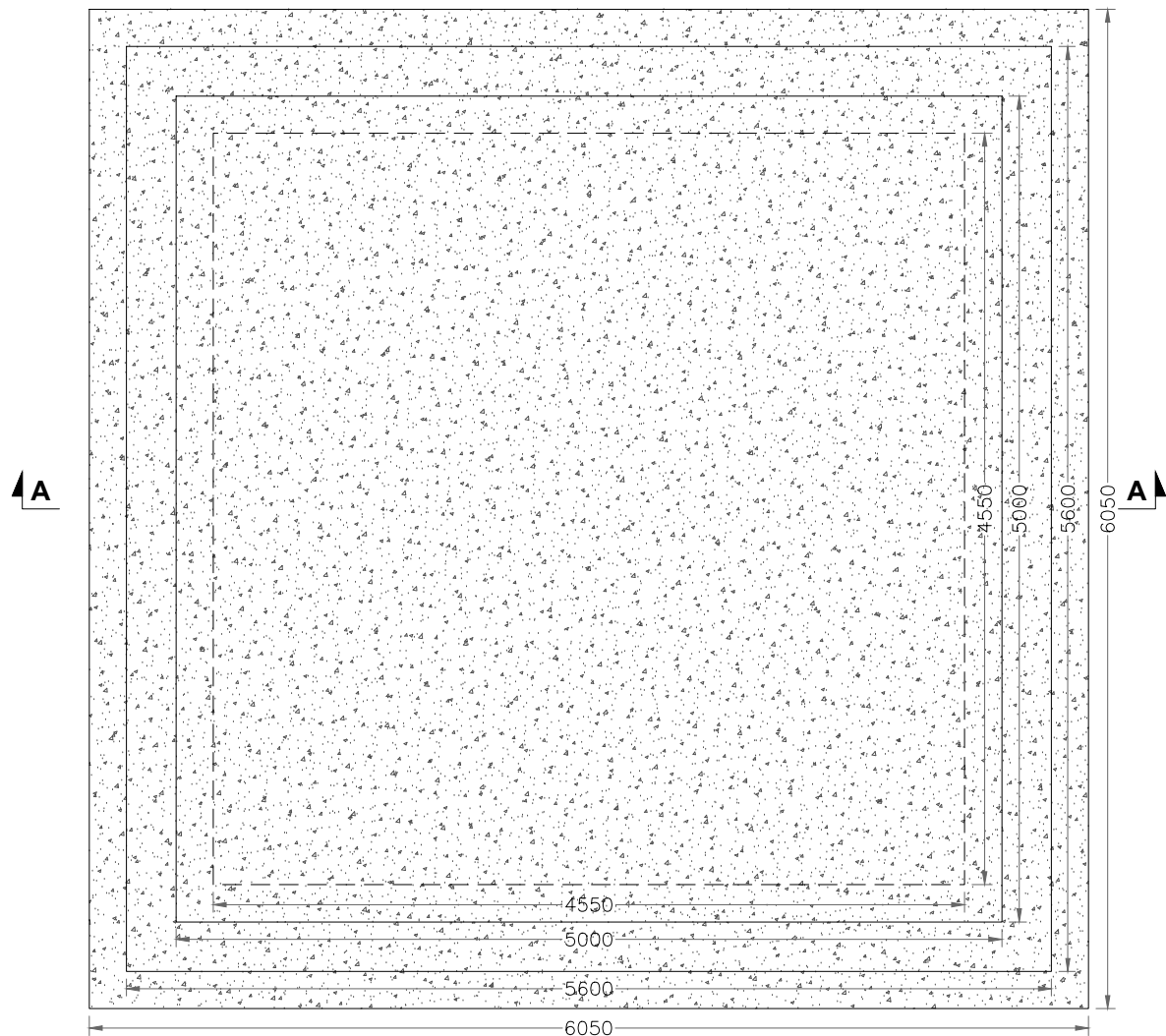
TITLE:
GHOZHEZAI DAM T.S.D TANK
SURFACE WATER TANK

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

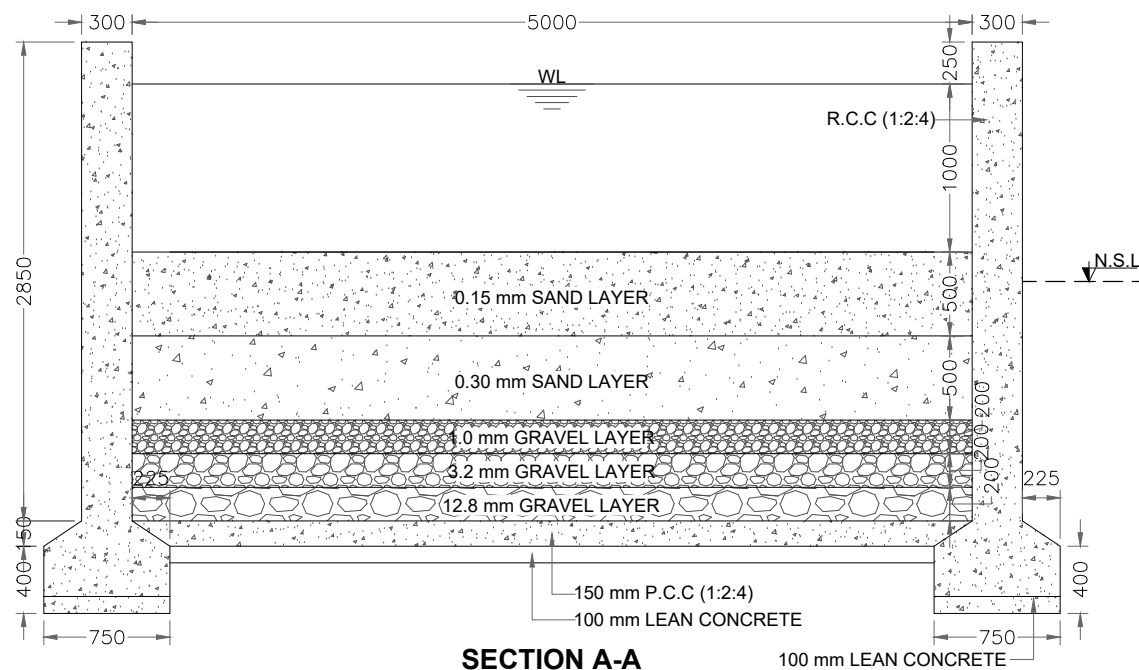
DRG.No:- GHD-BD-WS-02 SHEET:- SUB SH. ---



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PLAN
SCALE: 1:70



SECTION A-A
SCALE: 1:70

NOTES:

1. ALL DIMENSIONS & LEVELS ARE IN MILI METERS UNLESS OTHER WISE SPECIFIED.

REFERENCE DRAWINGS :-

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP OF ENGINEERING & CONSULTANTS

PERMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

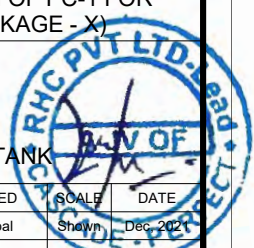
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

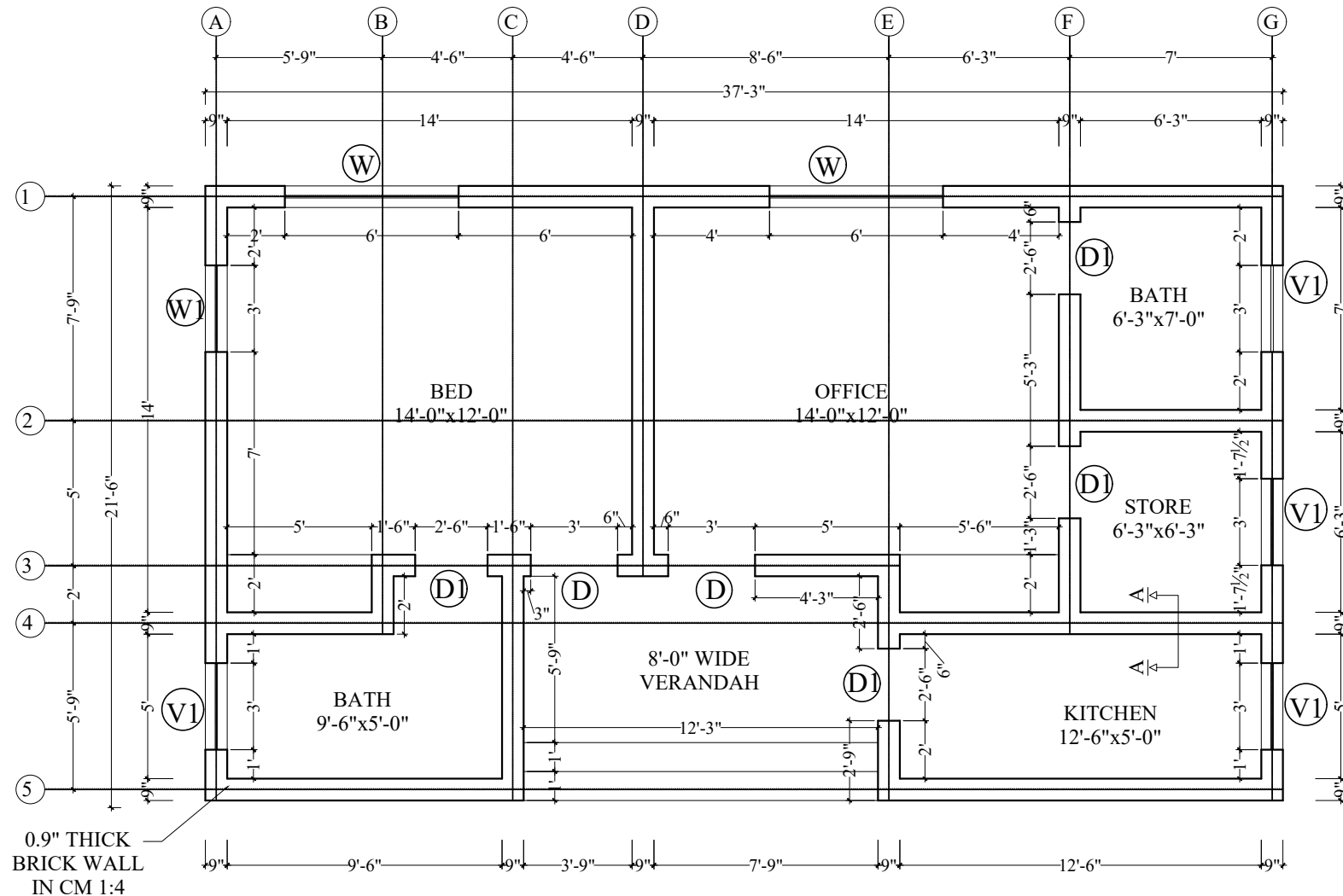
GHOZHEZAI DAM T.S.D TANK

WATER FILTERATION TANK

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021
DRG.No:- GHD-BD-WS-03			SHEET:-		SUB SH.---

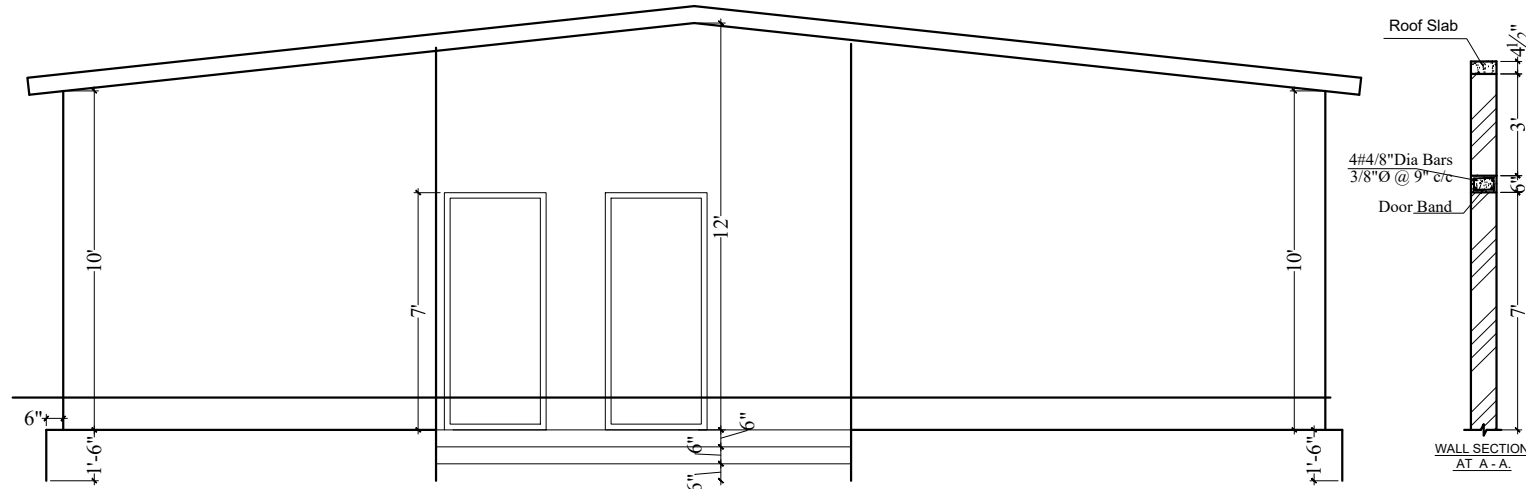


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0.9" THICK
BRICK WALL
IN CM 1:4

PLAN
750 sft



ELEVATION

SCHEDULE OF WINDOWS				
NO.	TYPE	SIZE	CILL. LEV	QTY
1	W	6'-0"x4'-0"	3'-0"	(02)
2	W1	3'-0"x4'-0"	3'-0"	(01)
3	TOTAL WINDOWS			03

SCHEDULE OF DOORS				
NO.	TYPE	SIZE	CILL. LEV	QTY
1	D	3'-0"x7'-0"	---	(02)
2	D1	2'-6"x7'-0"	---	(04)
3	TOTAL DOORS			06

SCHEDULE OF VENTILATORS				
NO.	TYPE	SIZE	CILL. LEV	QTY
1	V1	3'-0"x2'-0"	5'-0"	(04)
2	TOTAL VENTILATORS			04

NOTES:

1. ALL DIMENSIONS AND LEVELS ARE IN METERS UNLESS OTHERWISE MENTIONED.

REFERENCE DRAWINGS :-

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

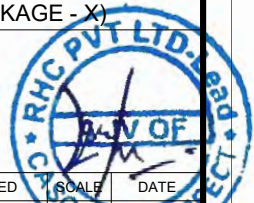
CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

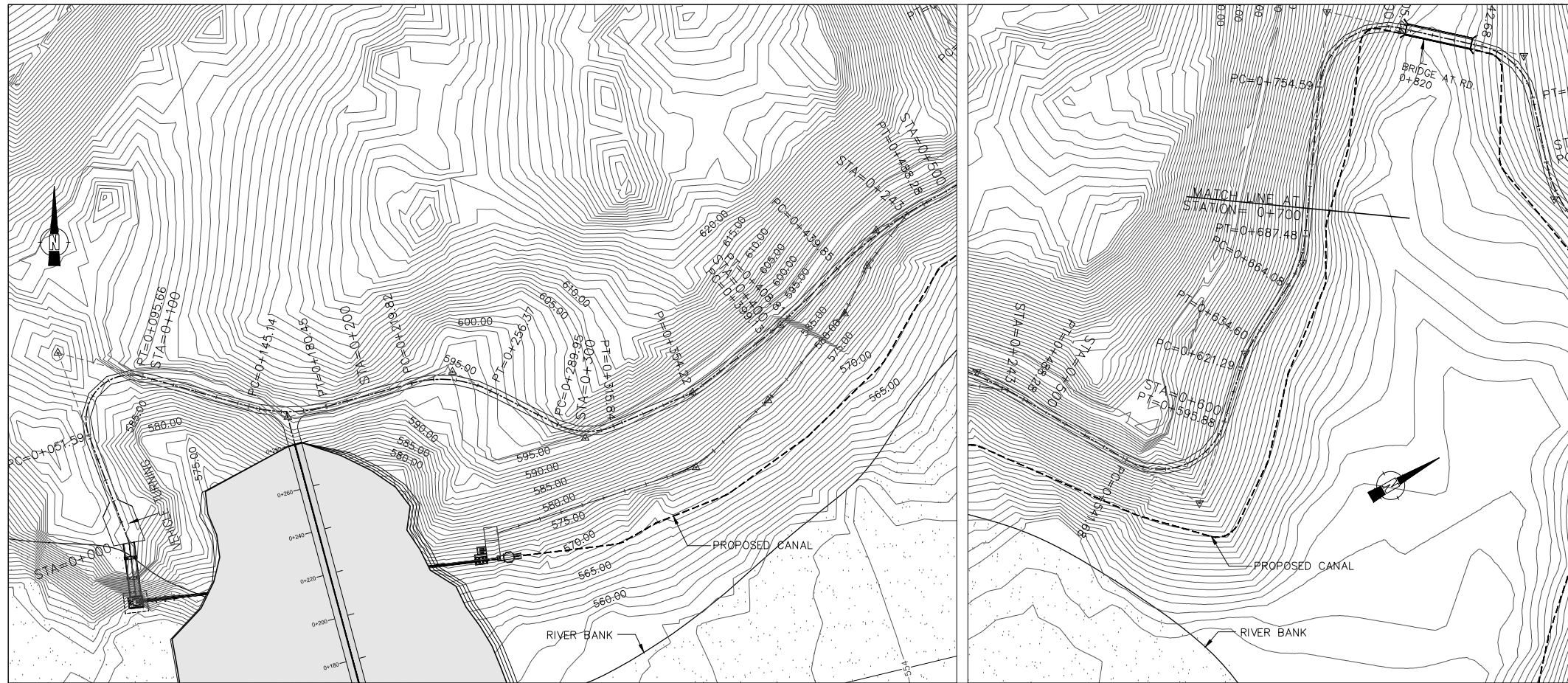
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
INSPECTION HUT

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021
DRG.No:- GHD-BD-IH-01			SHEET:-		SUB SH.---



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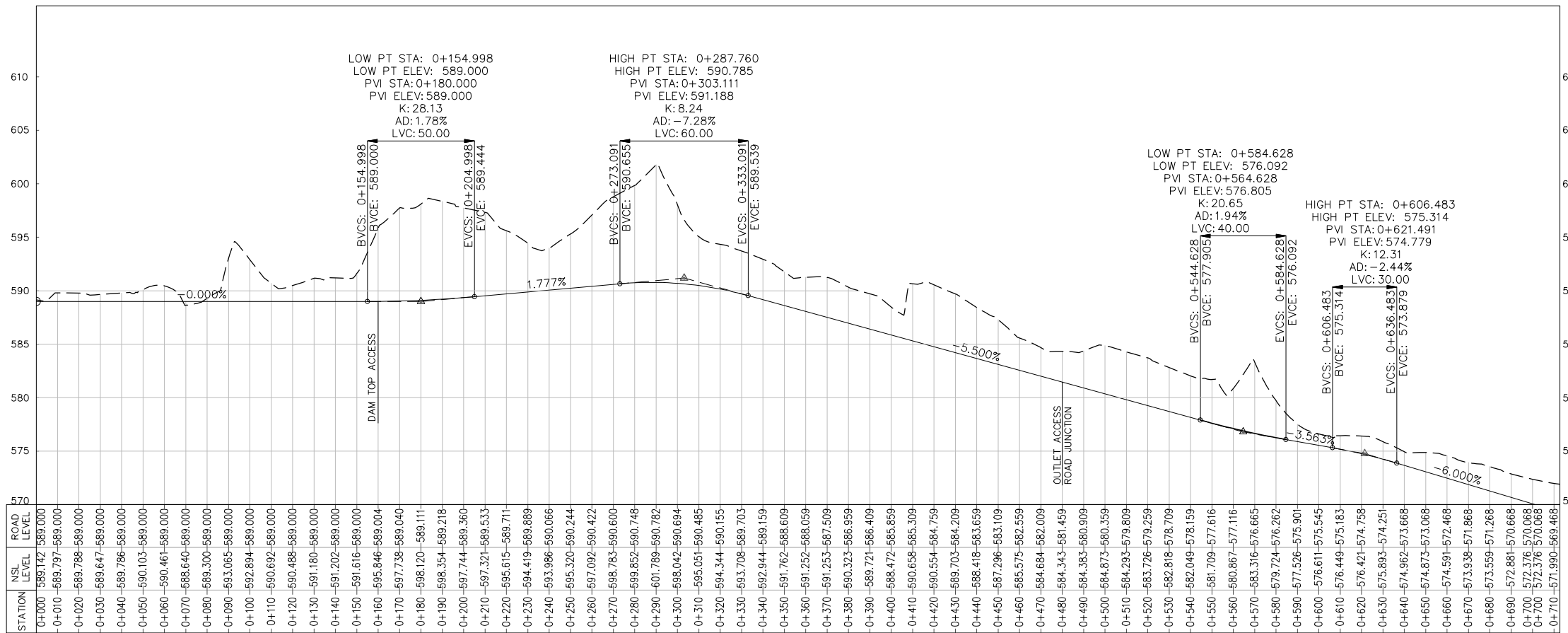
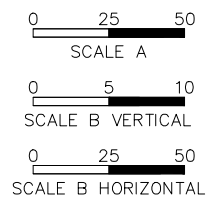
PLAN SCALE A

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:

- CENTRE LINE OF PROPOSED ACCESS ROAD
- CANAL
- CONTOUR (INDEX)
- BRIDGE
- CULVERT
- NORTH DIRECTION



PROFILE SCALE B

REFERENCE DRAWINGS :-

GHD-BD-RD-02, GHD-BD-RD-05,

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

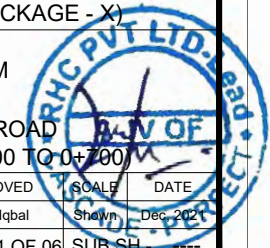
- A J.V OF **RHC REHMAN HABIB CONSULTANTS (PVT) LTD.**
- CASCADE GROUP OF ENGINEERING & CONSULTANTS**
- PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

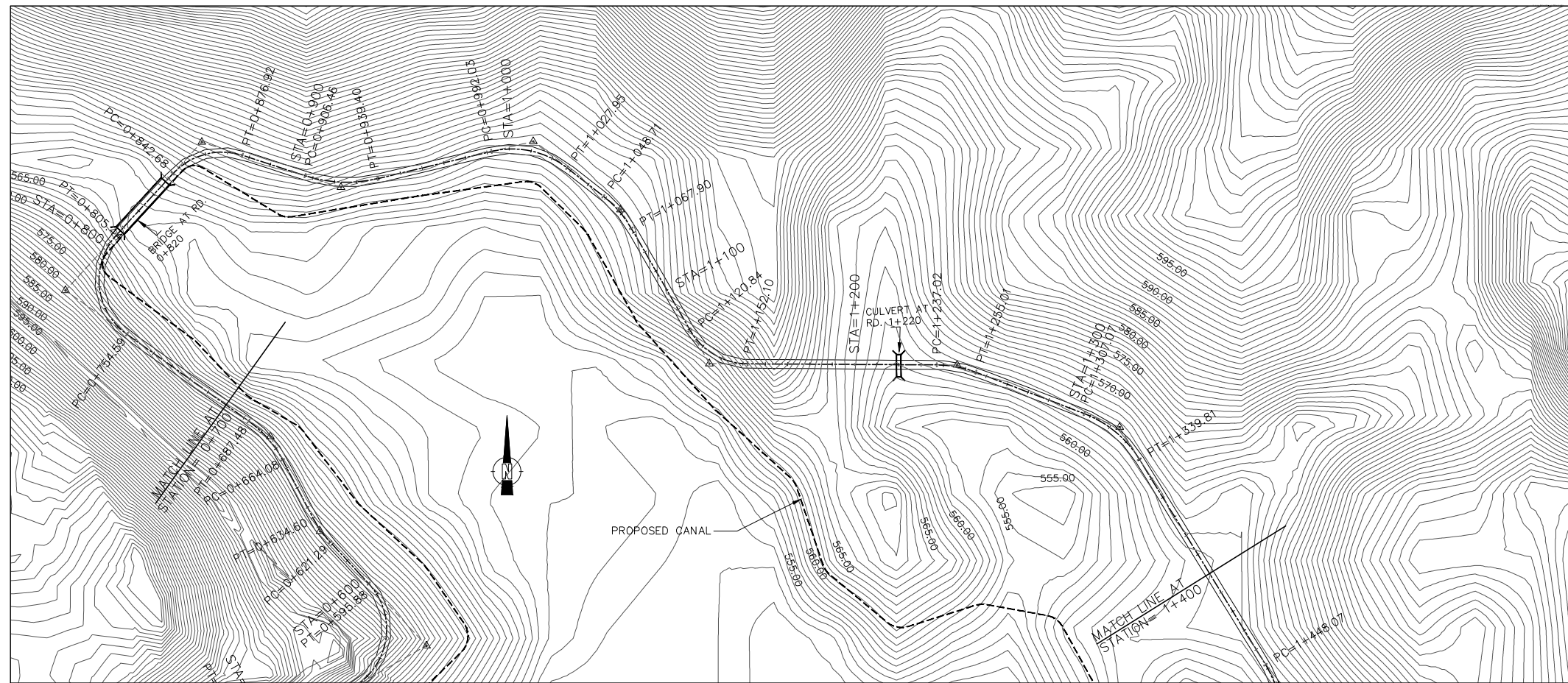
TITLE:
GHOZHEZAI DAM T.S.D TANK
DAM TOP ACCESS ROAD
PLAN & PROFILE (RD=0+000 TO 0+700)

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

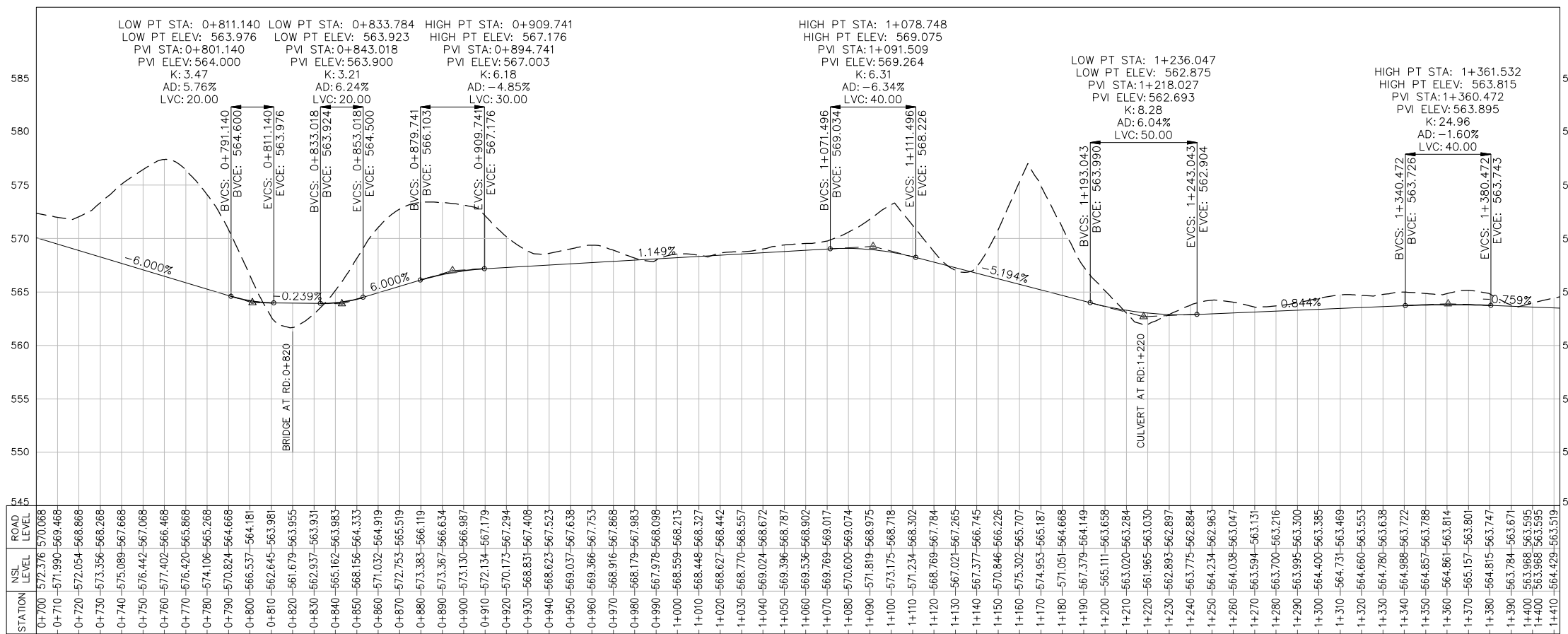
DRG.No:- GHD-BD-RD-01 SHEET:-01 OF 06 SUB SH. ---



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PLAN SCALE A



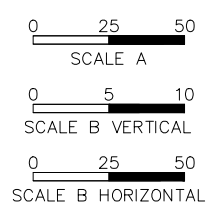
PROFILE SCALE B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:

- CENTRE LINE OF PROPOSED ACCESS ROAD
- CANAL
- CONTOUR (INDEX)
- BRIDGE
- CULVERT
- NORTH DIRECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-02, GHD-BD-RD-05,

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP OF ENGINEERING & CONSULTANTS

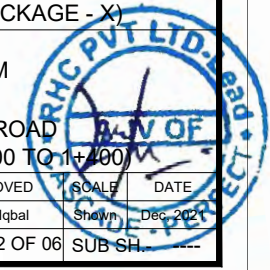
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

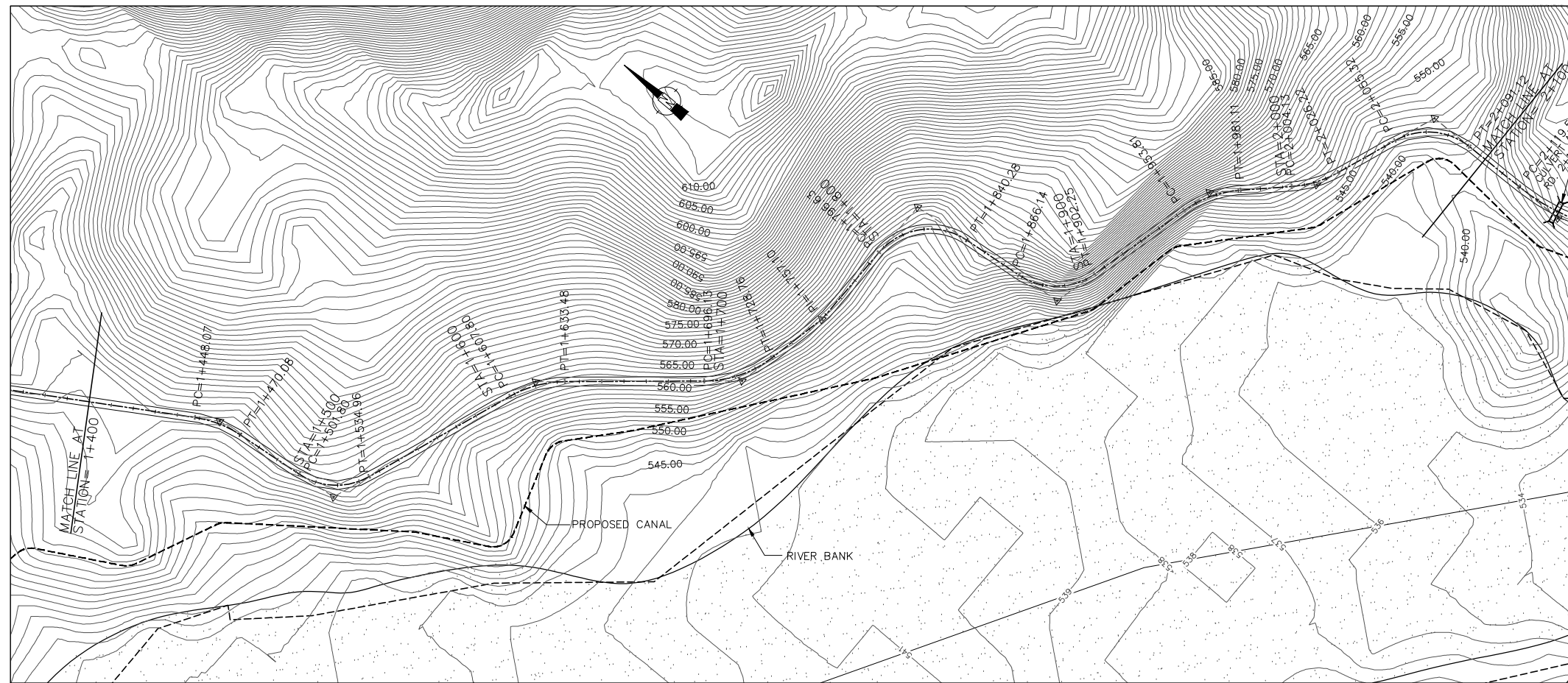
TITLE:
**GHOZHEZAI DAM T.S.D TANK
 DAM TOP ACCESS ROAD
 PLAN & PROFILE (RD=0+700 TO 1+400)**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

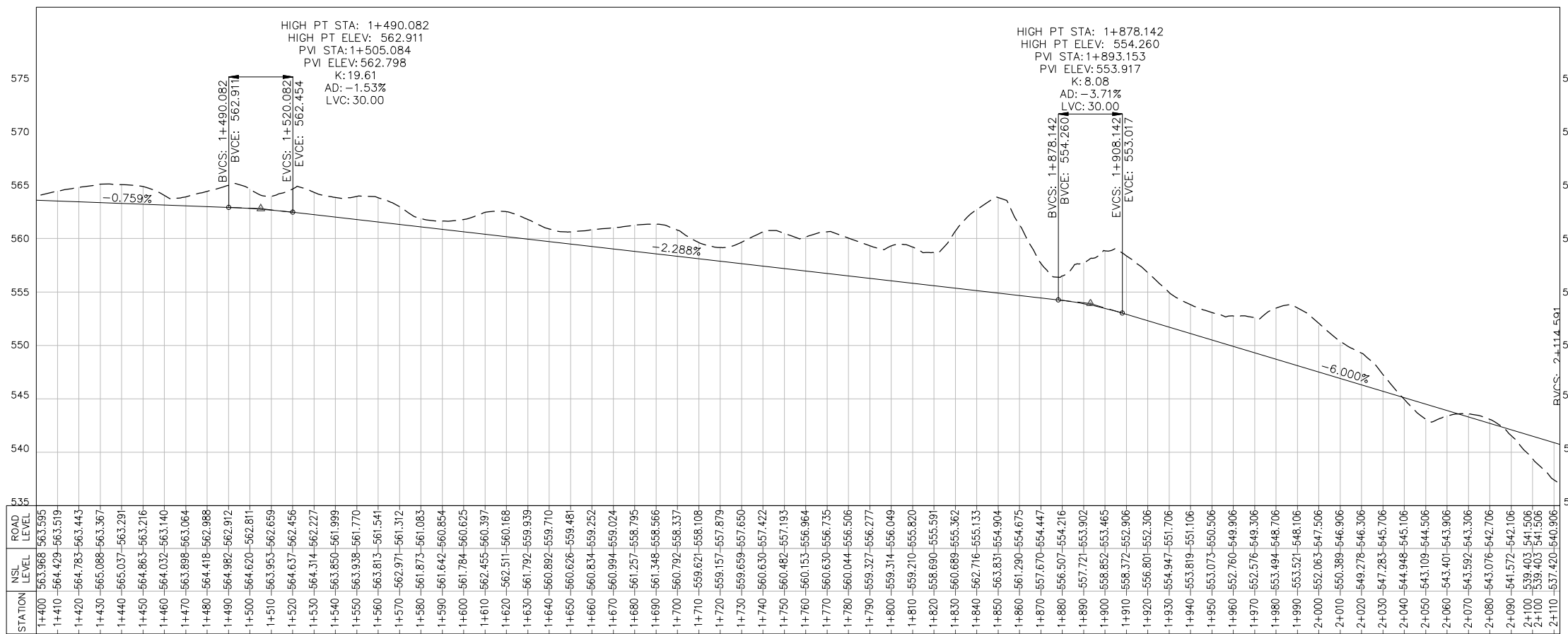
DRG.No:- GHD-BD-RD-01 SHEET:-02 OF 06 SUB SH.



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PLAN
SCALE A



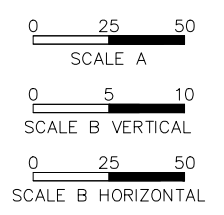
PROFILE
SCALE B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:

- CENTRE LINE OF PROPOSED ACCESS ROAD
- CANAL
- CONTOUR (INDEX)
- BRIDGE
- CULVERT
- NORTH DIRECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-02, GHD-BD-RD-05

DRAWING IS RELEASED

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CLIENT:
**PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.**

CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
**CASCADE GROUP
OF ENGINEERING & CONSULTANTS**
**PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS**

PROJECT:
**CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)**

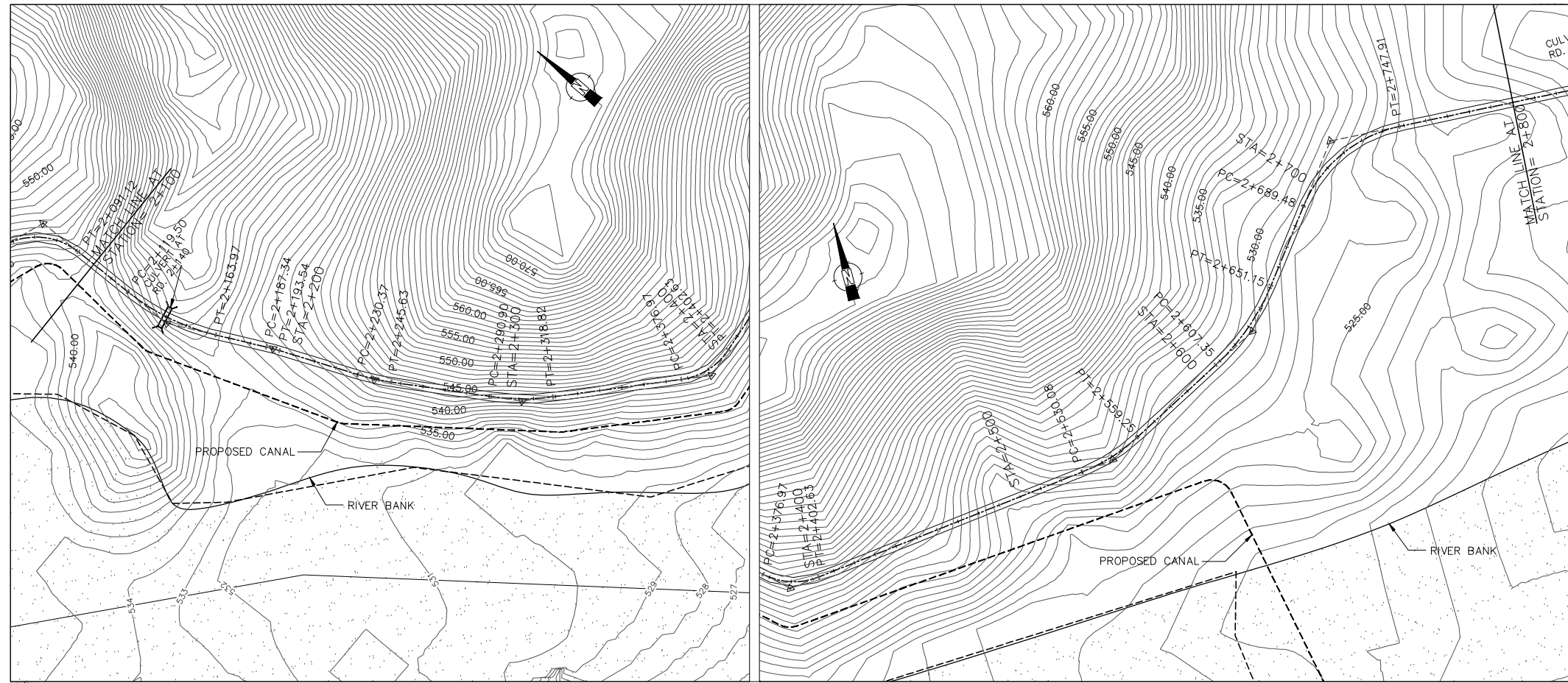
**GHOZHEZAI DAM
T.S.D TANK**

TITLE:
**DAM TOP ACCESS ROAD
PLAN & PROFILE (RD=1+400 TO 2+110)**

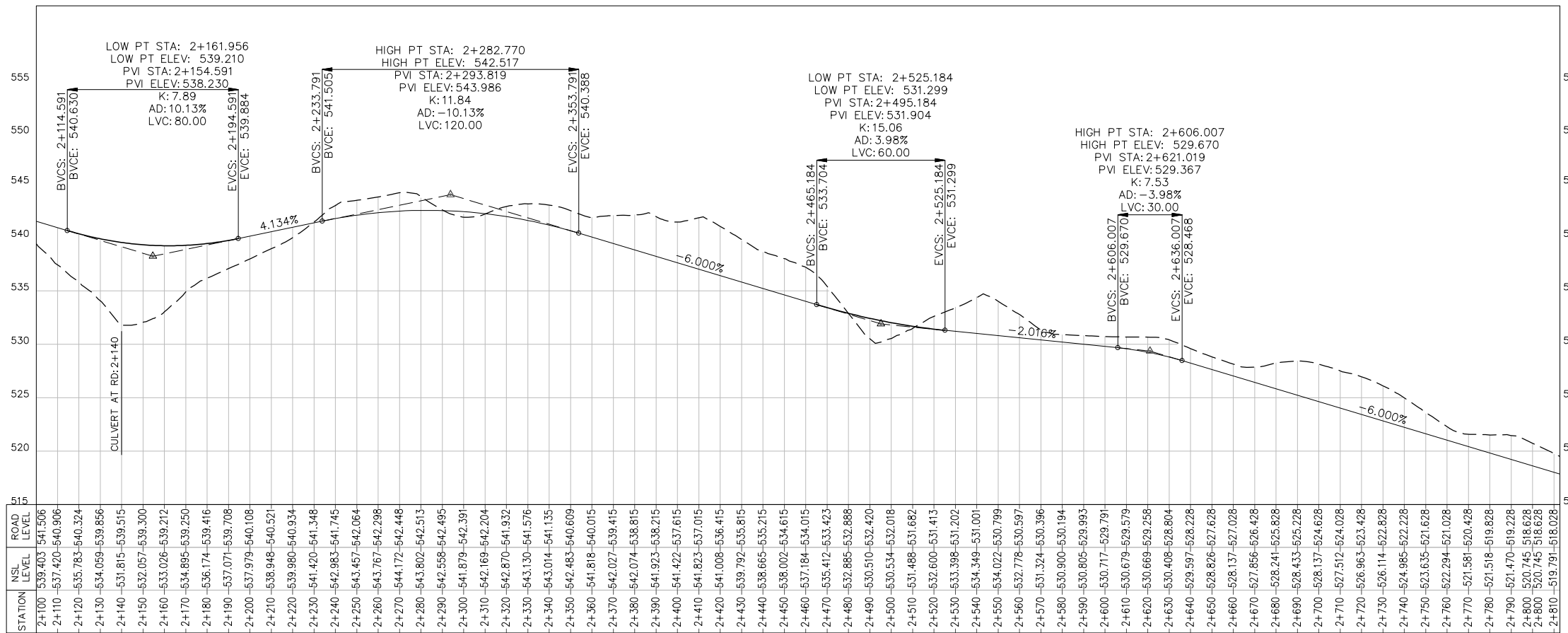
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-RD-01 SHEET:-03 OF 06 SUB SH.

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PLAN
SCALE A



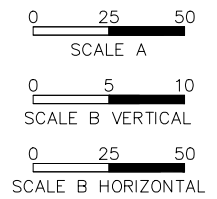
PROFILE
SCALE B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:

- CENTRE LINE OF PROPOSED ACCESS ROAD
- CANAL
- CONTOUR (INDEX)
- BRIDGE
- CULVERT
- NORTH DIRECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-02, GHD-BD-RD-05

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

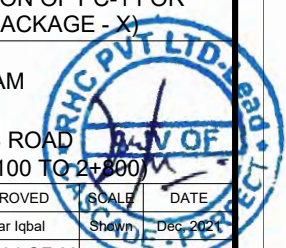
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- CASCADE GROUP OF ENGINEERING & CONSULTANTS**
- PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

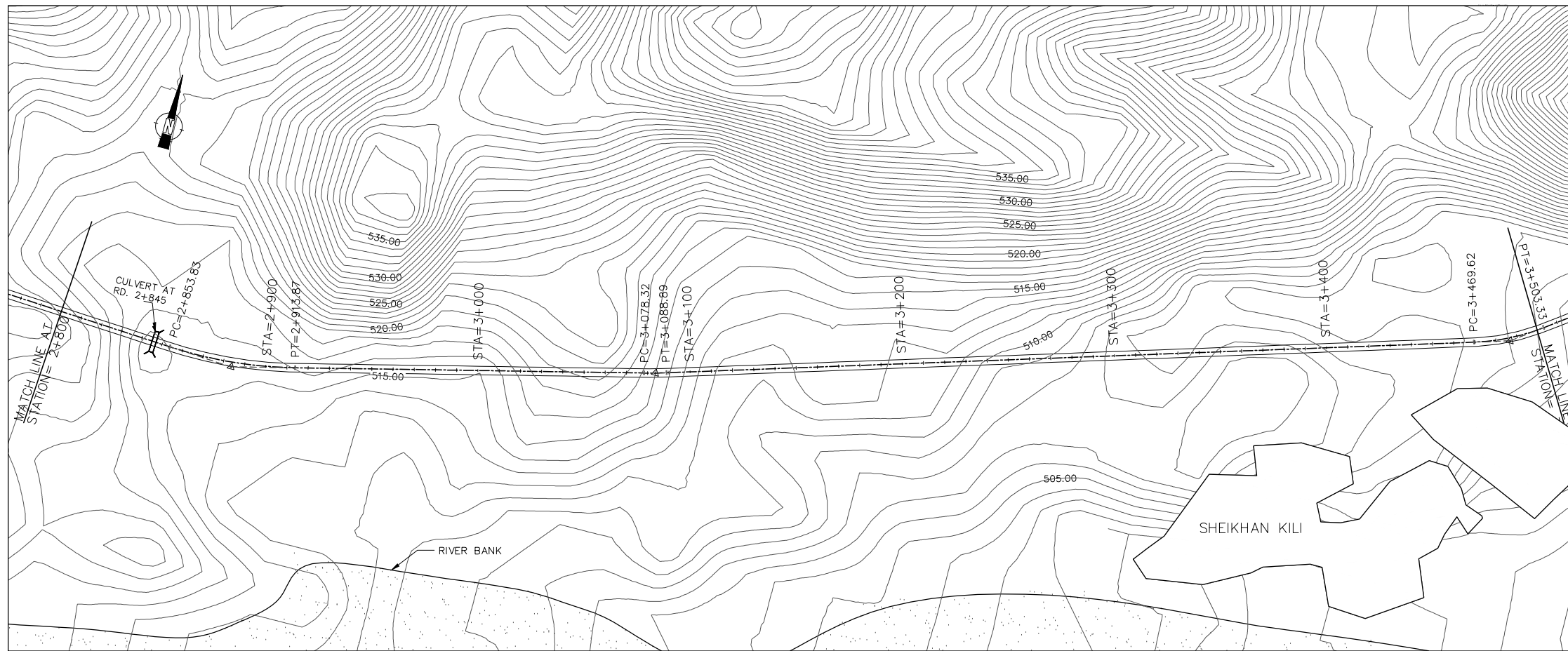
TITLE:
GHOZHEZAI DAM
T.S.D TANK
DAM TOP ACCESS ROAD
PLAN & PROFILE (RD=2+100 TO 2+800)

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

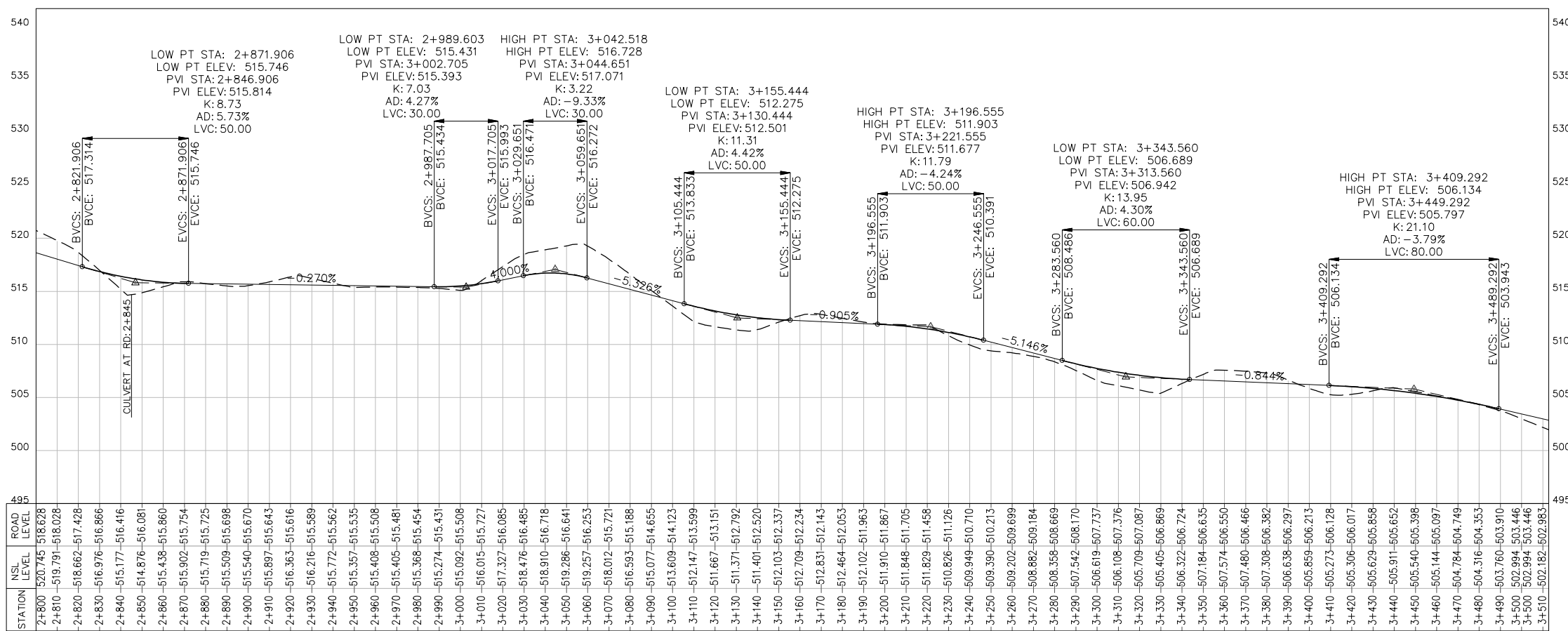
DRG.No:- GHD-BD-RD-01 SHEET:-04 OF 06 SUB SH.



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PLAN SCALE A



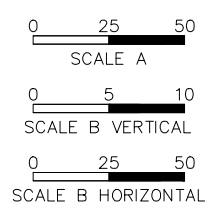
PROFILE SCALE B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:

- CENTRE LINE OF PROPOSED ACCESS ROAD
- CANAL
- CONTOUR (INDEX)
- BRIDGE
- CULVERT
- NORTH DIRECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-02, GHD-BD-RD-05

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

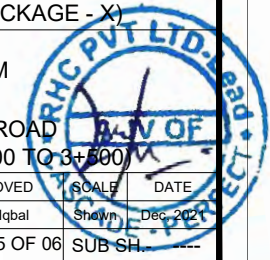
CASCADE GROUP OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

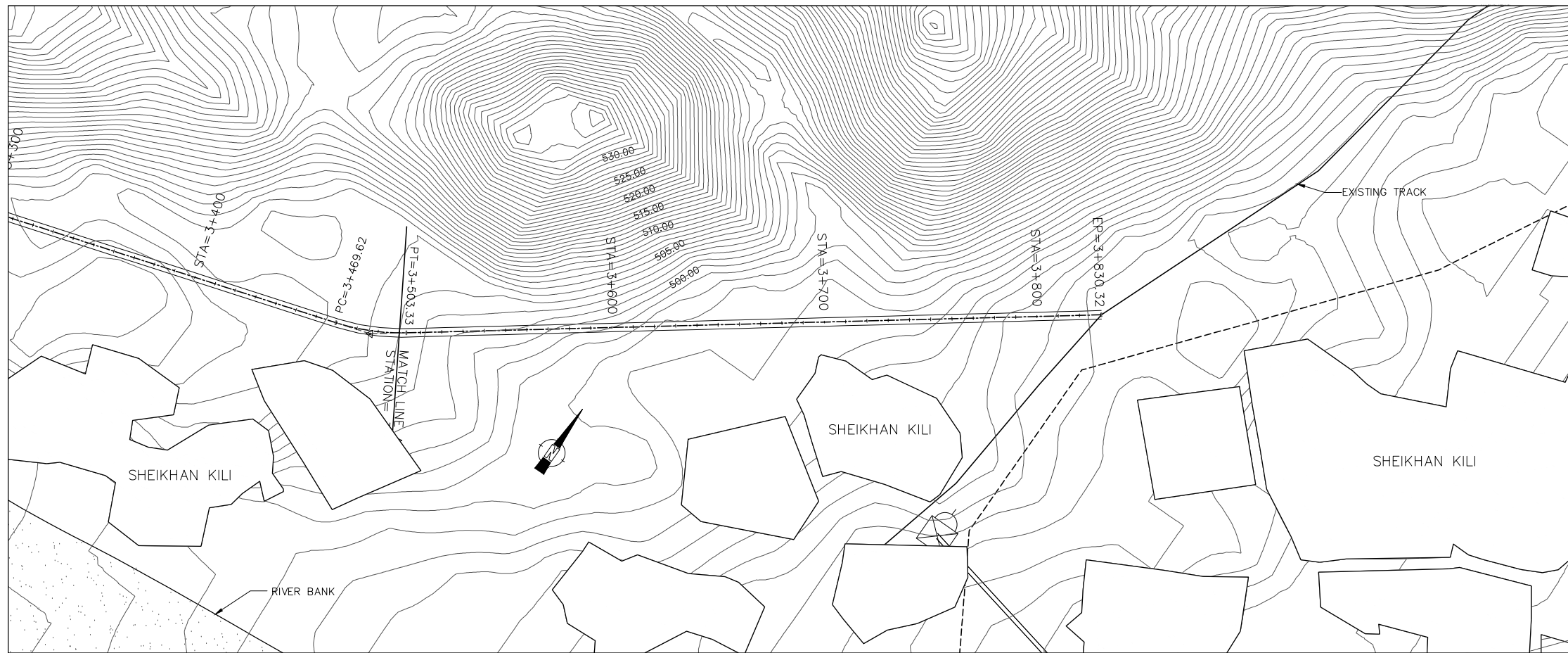
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
**GHOZHEZAI DAM T.S.D TANK
DAM TOP ACCESS ROAD
PLAN & PROFILE (RD=2+800 TO 3+500)**

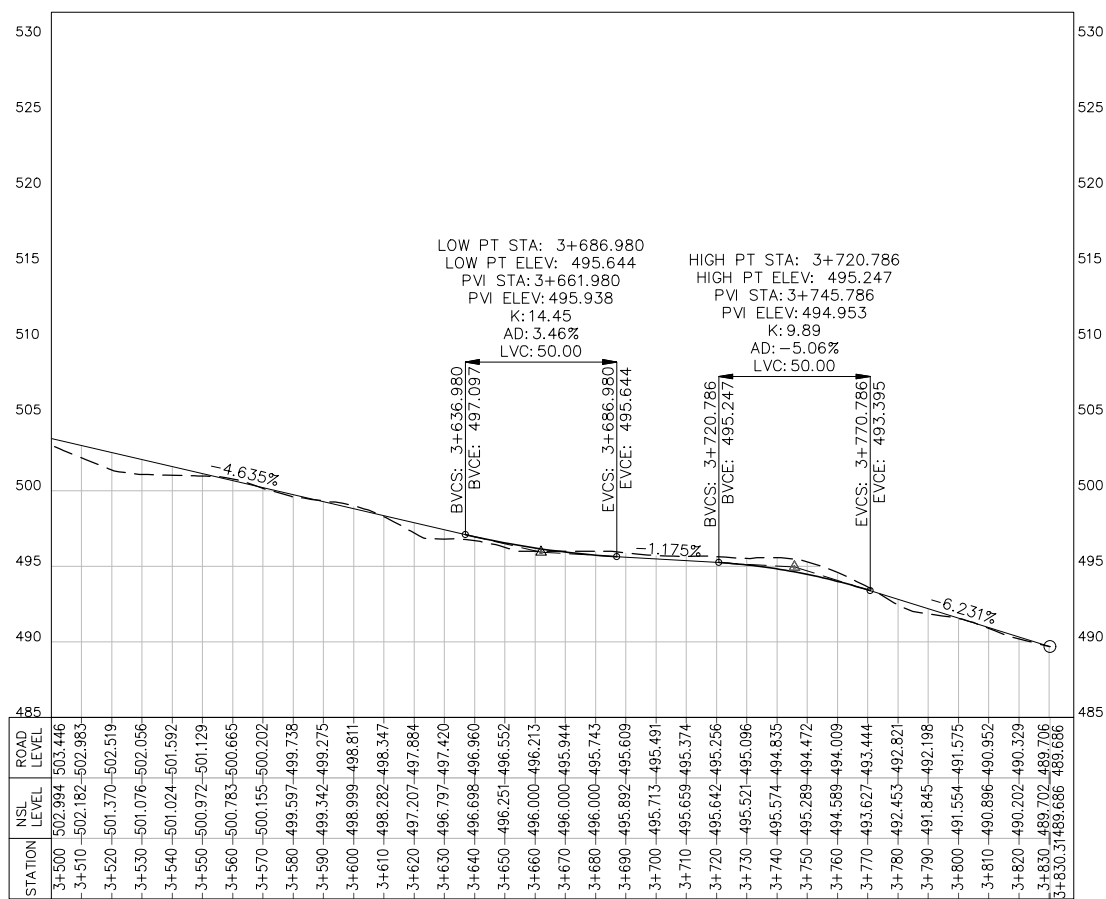
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	1:1	Dec-2021
DRG.No:- GHD-BD-RD-01			SHEET:-05 OF 06 SUB SH.		



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PLAN
SCALE A



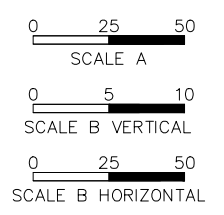
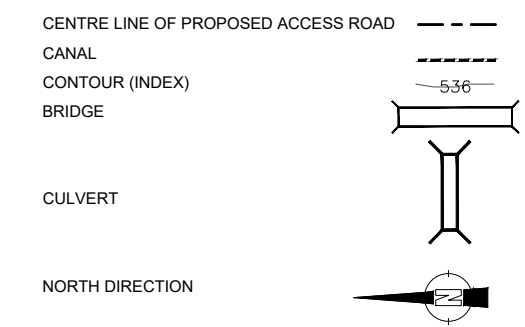
PROFILE
SCALE B

STATION	NSL LEVEL	ROAD LEVEL
3+500	502.994	503.446
3+510	502.182	502.983
3+520	501.370	502.519
3+530	501.076	502.056
3+540	501.024	501.592
3+550	500.972	501.129
3+560	500.783	500.665
3+570	500.155	500.202
3+580	499.597	499.738
3+590	499.342	499.275
3+600	498.999	498.811
3+610	498.282	498.347
3+620	497.207	497.884
3+630	496.797	497.420
3+640	496.698	496.960
3+650	496.251	496.552
3+660	496.000	496.213
3+670	496.000	495.944
3+680	496.000	495.743
3+690	495.892	495.609
3+700	495.713	495.491
3+710	495.659	495.374
3+720	495.642	495.256
3+730	495.521	495.096
3+740	495.574	494.835
3+750	495.289	494.472
3+760	494.589	494.009
3+770	493.627	493.444
3+780	492.453	492.821
3+790	491.845	492.198
3+800	491.554	491.575
3+810	490.896	490.952
3+820	490.202	490.329
3+830	489.702	489.706
3+830.31489.686	489.686	489.686

NOTES:-

- ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:



REFERENCE DRAWINGS :-

GHD-BD-RD-02, GHD-BD-RD-05

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

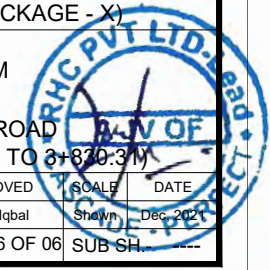
CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PEMG PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:
GHOZHEZAI DAM
T.S.D TANK
DAM TOP ACCESS ROAD
PLAN & PROFILE (RD=3+500 TO 3+830.32M)

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-RD-01 SHEET:-06 OF 06 SUB SH.



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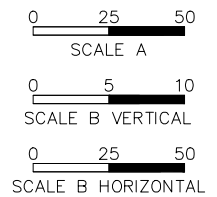
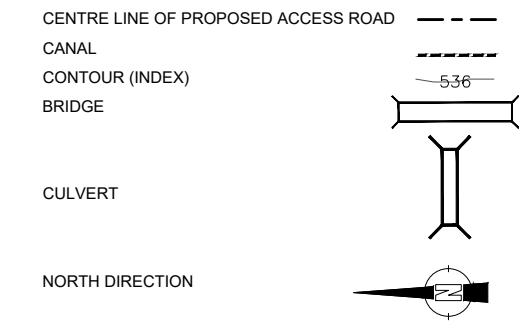
DAM TOP ACCESS ROAD HORIZONTAL ALIGNMENT PI & CURVE ELEMENTS TABLE

START CHAINAGE	PI STA	END CHAINAGE	PI EASTING	PI NORTING	DELAT ANGLE	TANGENT	RADIUS	CURVE LENGTH	EXTERNAL SECANT	MID ORDINATE	CHORD LENGTH
0+051.587	0+091.052	0+095.658	623266.303	3591873.312	126.249	39.465	20.001	44.070	24.243	10.959	35.681
0+145.145	0+163.242	0+180.451	623369.385	3591844.439	31.015	18.097	65.223	35.306	2.464	2.374	34.877
0+219.816	0+238.954	0+256.371	623443.246	3591864.738	41.888	19.137	50.000	36.554	3.537	3.304	35.746
0+541.681	0+579.741	0+595.877	623734.033	3591984.942	103.508	38.060	30.000	54.196	18.462	11.429	47.121
0+842.675	0+861.939	0+876.924	623633.118	3592211.084	65.411	19.264	30.000	34.249	5.652	4.756	32.419
0+906.457	0+923.357	0+939.404	623695.591	3592190.759	31.462	16.900	60.000	32.947	2.335	2.247	32.535
0+992.030	1+011.305	1+027.954	623781.961	3592211.400	51.457	19.275	40.000	35.924	4.402	3.965	34.728
1+120.835	1+138.052	1+152.096	623861.077	3592111.591	59.703	17.217	30.000	31.261	4.589	3.980	29.865
1+501.796	1+520.302	1+534.960	624123.488	3591905.828	63.338	18.506	30.000	33.164	5.249	4.467	31.501
1+696.133	1+713.050	1+728.758	624281.343	3591798.777	37.386	16.917	50.000	32.625	2.784	2.638	32.050
1+868.302	1+889.013	1+904.556	624399.881	3591713.504	69.239	20.711	30.000	36.254	6.455	5.312	34.087
2+187.344	2+190.443	2+193.540	624594.821	3591521.110	3.550	3.099	100.000	6.196	0.048	0.048	6.195
2+376.967	2+390.642	2+402.629	624712.189	3591362.612	49.011	13.675	30.000	25.662	2.970	2.702	24.887
2+853.831	2+884.077	2+913.868	625165.996	3591484.932	17.199	30.246	200.000	60.037	2.274	2.249	59.812
0+289.948	0+303.764	0+315.842	623502.775	3591835.031	49.454	13.816	30.000	25.894	3.028	2.751	25.098
0+399.133	0+403.977	0+408.809	623590.247	3591885.753	6.930	4.844	80.000	9.676	0.147	0.146	9.670
0+439.849	0+464.207	0+488.280	623633.166	3591928.025	15.130	24.357	183.403	48.431	1.610	1.596	48.291
0+664.081	0+676.000	0+687.483	623663.875	3592078.891	26.817	11.919	50.000	23.402	1.401	1.363	23.189
0+621.294	0+627.985	0+634.598	623686.229	3592036.308	15.245	6.692	50.000	13.304	0.446	0.442	13.265
0+754.585	0+788.568	0+805.439	623571.860	3592144.490	97.124	33.983	30.000	50.854	15.330	10.146	44.980
1+048.711	1+058.427	1+067.903	623821.154	3592180.762	21.992	9.716	50.000	19.192	0.935	0.918	19.074
1+237.024	1+246.117	1+255.013	623972.314	3592110.999	20.613	9.093	50.000	17.989	0.820	0.807	17.892
2+055.324	2+075.697	2+091.117	624571.554	3591636.368	68.361	20.373	30.000	35.794	6.264	5.182	33.708
1+307.071	1+324.052	1+339.811	624045.296	3592083.103	37.517	16.981	50.000	32.740	2.805	2.656	32.158
1+448.068	1+459.257	1+470.083	624116.710	3591966.860	25.228	11.189	50.000	22.015	1.237	1.207	21.838
1+607.797	1+620.931	1+633.484	624221.460	3591869.538	29.435	13.134	50.000	25.687	1.696	1.640	25.405
1+796.634	1+823.340	1+840.277	624391.788	3591788.511	83.351	26.706	30.000	43.643	10.165	7.592	39.895
1+953.813	1+967.813	1+981.113	624481.136	3591692.334	31.283	13.999	50.000	27.299	1.923	1.852	26.962
2+119.503	2+142.111	2+163.971	624572.886	3591565.014	25.478	22.608	100.000	44.468	2.524	2.462	44.103
2+230.367	2+238.011	2+245.626	624613.407	3591477.320	8.743	7.644	100.000	15.259	0.292	0.291	15.244
2+290.901	2+304.951	2+318.818	624648.637	3591420.367	15.996	14.050	100.000	27.917	0.982	0.973	27.827
2+004.128	2+015.358	2+026.220	624514.718	3591657.697	25.316	11.229	50.000	22.092	1.246	1.215	21.913
2+530.077	2+544.825	2+559.246	624866.981	3591380.924	20.891	14.748	80.000	29.169	1.348	1.326	29.007
2+607.353	2+629.610	2+651.153	624942.382	3591420.405	25.096	22.257	100.000	43.800	2.447	2.388	43.451
2+689.480	2+721.244	2+747.906	624998.301	3591493.898	55.793	31.764	60.000	58.427	7.889	6.972	56.145
3+078.322	3+083.608	3+088.892	625359.924	3591533.784	3.028	5.286	200.000	10.570	0.070	0.070	10.569
3+469.616	3+486.632	3+503.326	625744.995	3591652.741	19.315	17.017	100.000	33.711	1.438	1.417	33.551

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:



REFERENCE DRAWINGS :-

GHD-BD-RD-01

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

**CASCADE GROUP
OF ENGINEERING & CONSULTANTS**

**PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS**

PROJECT:

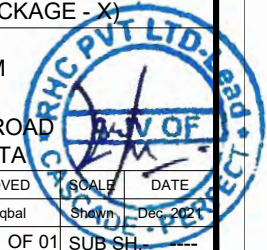
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

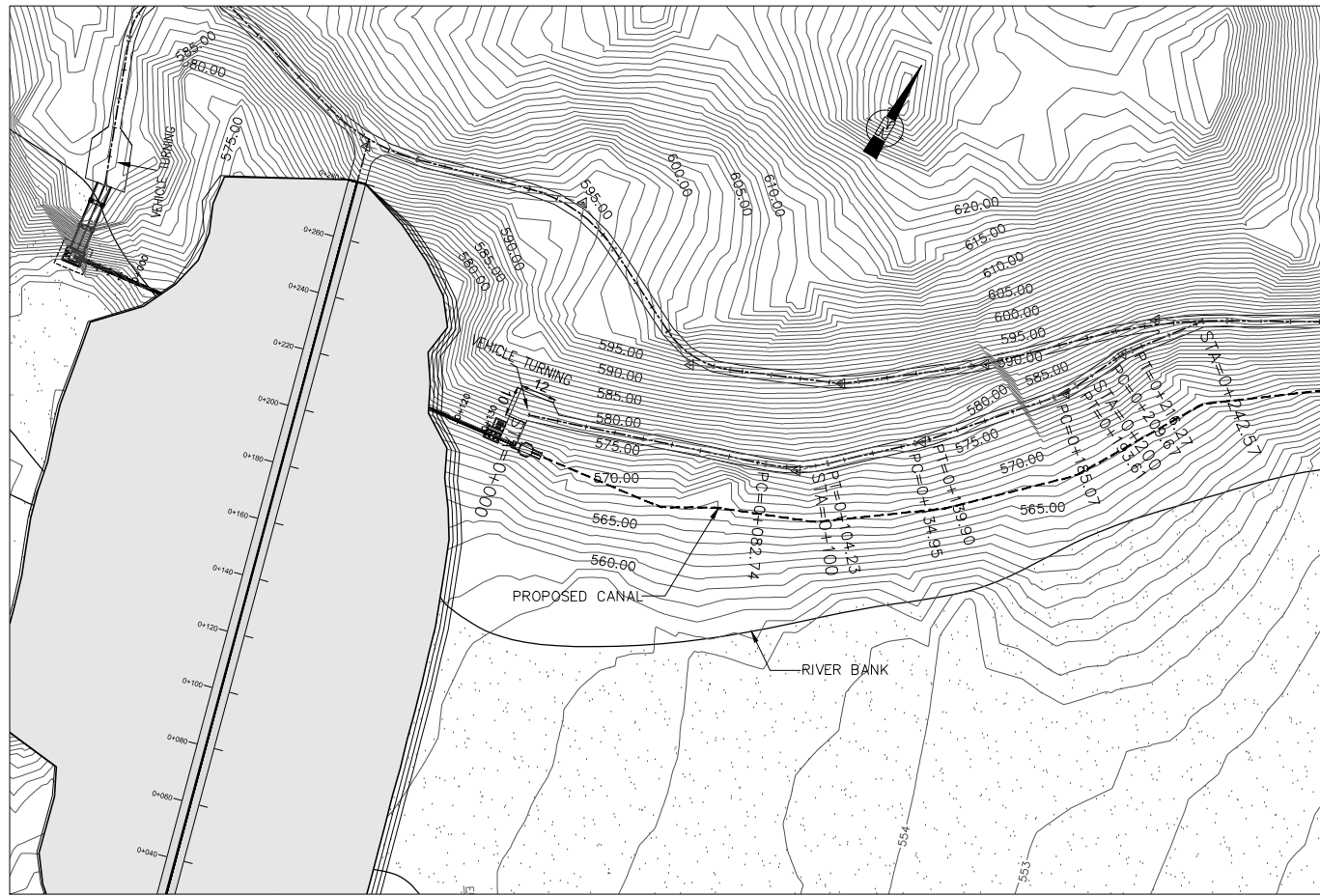
GHOZHEZAI DAM
T.S.D TANK
DAM TOP ACCESS ROAD
SETTING OUT DATA

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

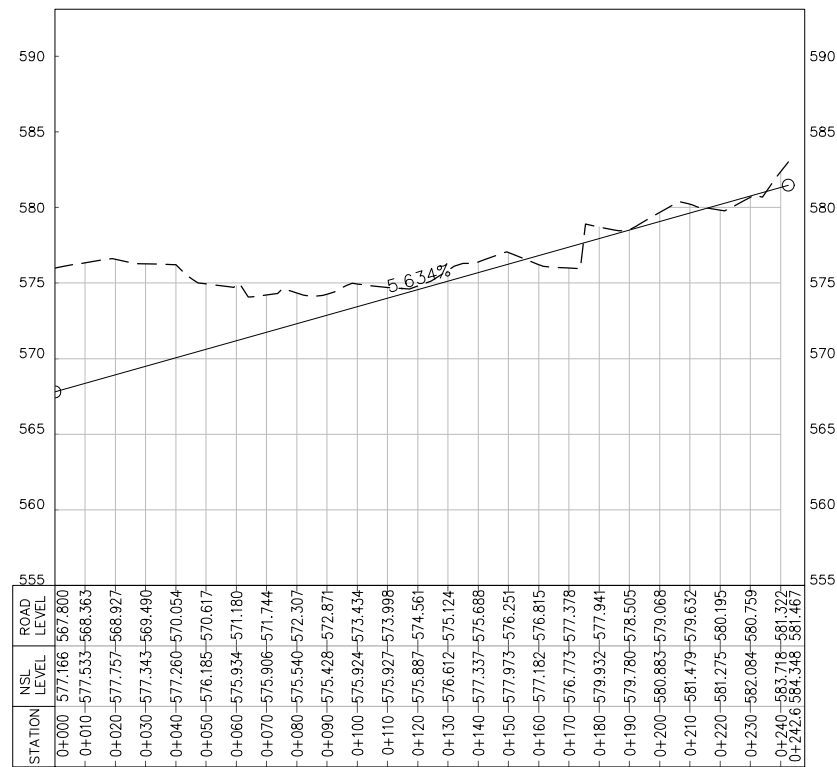
DRG.No:- GHD-BD-RD-02 SHEET:-01 OF 01 SUB SH.---



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PLAN
SCALE A



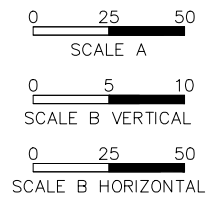
OUTLET ACCESS ROAD PROFILE
SCALE B

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:

- CENTRE LINE OF PROPOSED ACCESS ROAD
- CANAL
- CONTOUR (INDEX)
- BRIDGE
- CULVERT
- NORTH DIRECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-04

DRAWING IS RELEASED

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE GROUP OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

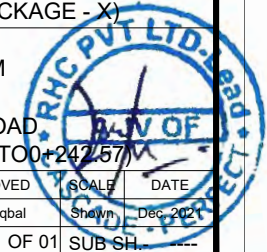
TITLE:

GHOZHEZAI DAM
T.S.D TANK
OUTLET ACCESS ROAD
PLAN & PROFILE (RD=0+000 TO 0+242.67M)

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-RD-03

SHEET:-01 OF 01 SUB SH.



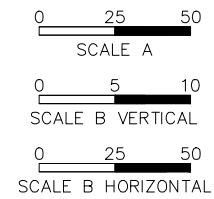
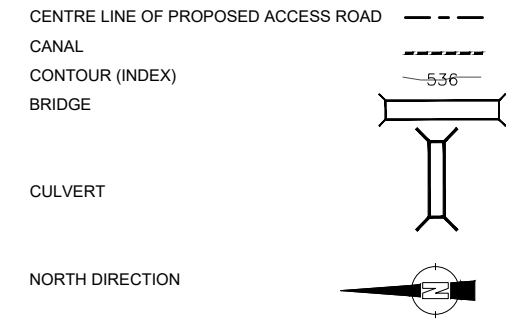
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OUTLET ACCESS ROAD HORIZONTAL ALIGNMENT PI & CURVE ELEMENTS TABLE											
START CHAINAGE	PI STA	END CHAINAGE	PI EASTING	PI NORTING	DELTA ANGLE	TANGENT	RADIUS	CURVE LENGTH	EXTERNAL SECANT	MID ORDINATE	CHORD LENGTH
0+082.740	0+093.652	0+104.227	623552.411	3591821.924	24.622	10.912	50.000	21.487	1.177	1.150	21.322
0+134.948	0+137.424	0+139.896	623584.722	3591851.950	5.670	2.476	50.000	4.948	0.061	0.061	4.946
0+209.673	0+212.987	0+216.274	623629.144	3591912.339	12.607	3.314	30.000	6.601	0.182	0.181	6.588
0+185.065	0+189.366	0+193.609	623619.095	3591890.898	16.316	4.301	30.000	8.543	0.307	0.304	8.514

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:



REFERENCE DRAWINGS :-

GHD-BD-RD-03

DRAWING IS RELEASED


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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

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

 **CASCADE GROUP
OF ENGINEERING & CONSULTANTS**

 **PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS**

PROJECT:

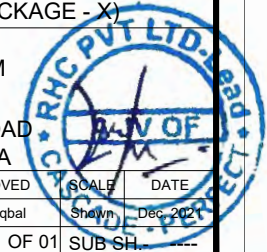
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE:

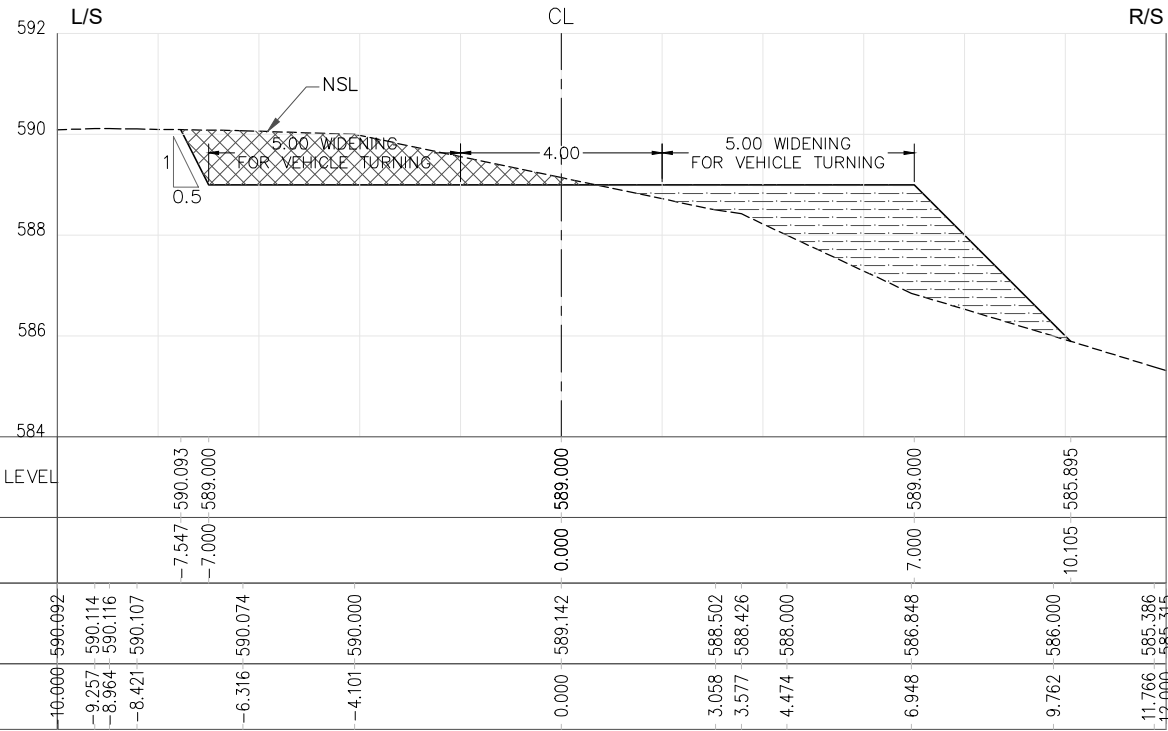
GHOZHEZAI DAM
T.S.D TANK
OUTLET ACCESS ROAD
SETTING OUT DATA

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

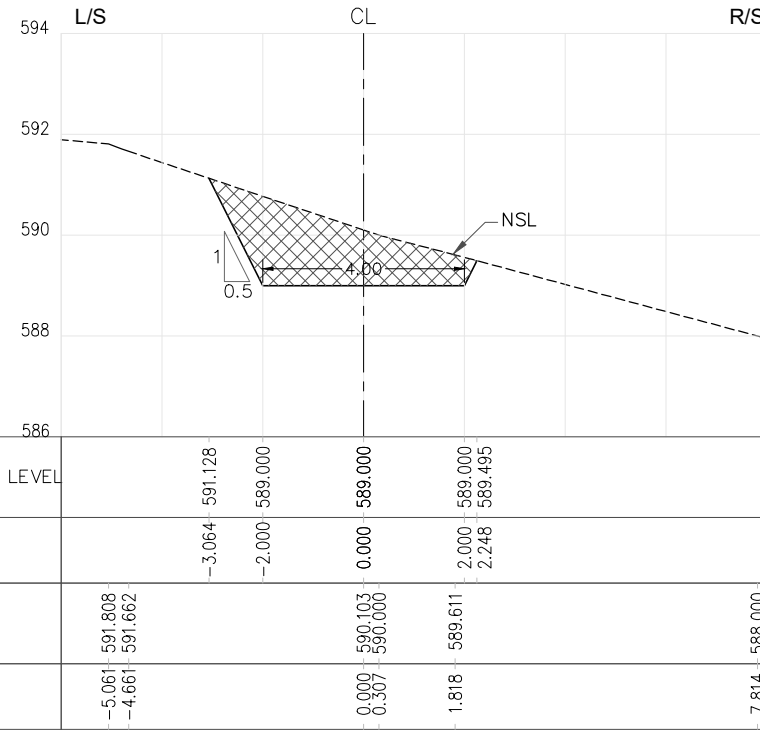
DRG.No:- GHD-BD-RD-04 SHEET:-01 OF 01 SUB SH. ---



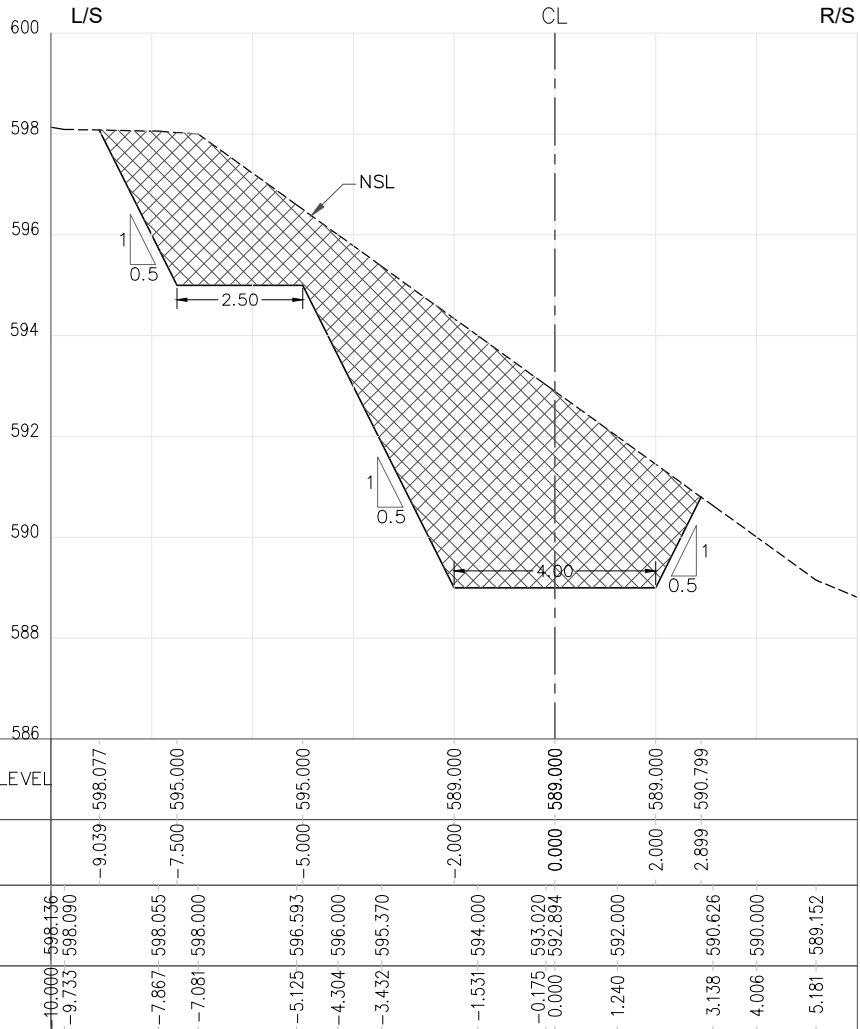
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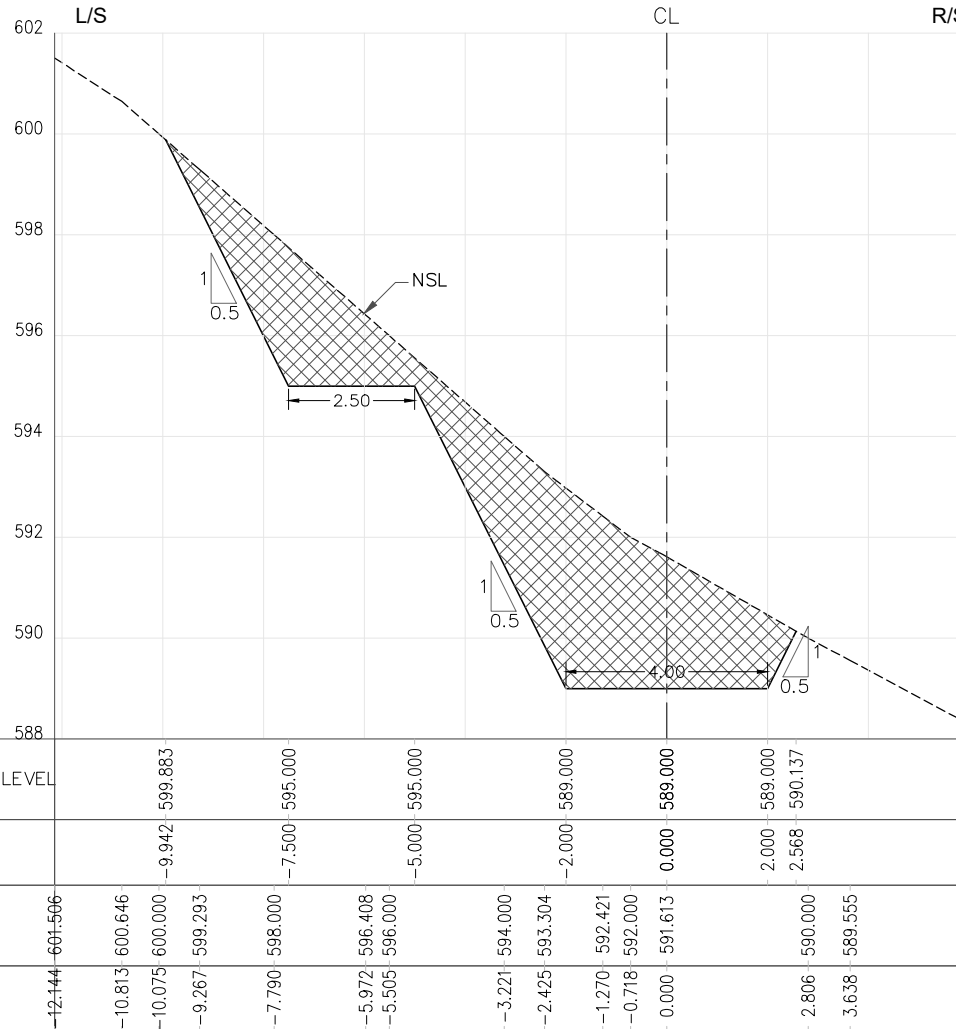
RD=0+000.000



RD=0+050.000



RD=0+100.000



RD=0+150.000

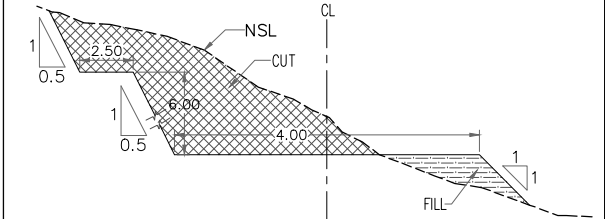
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

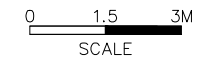
LEGEND:-

CUT AREA

FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERM
PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

PROJECT:

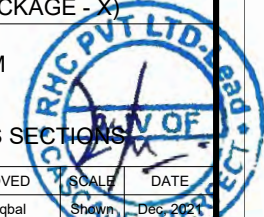
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK

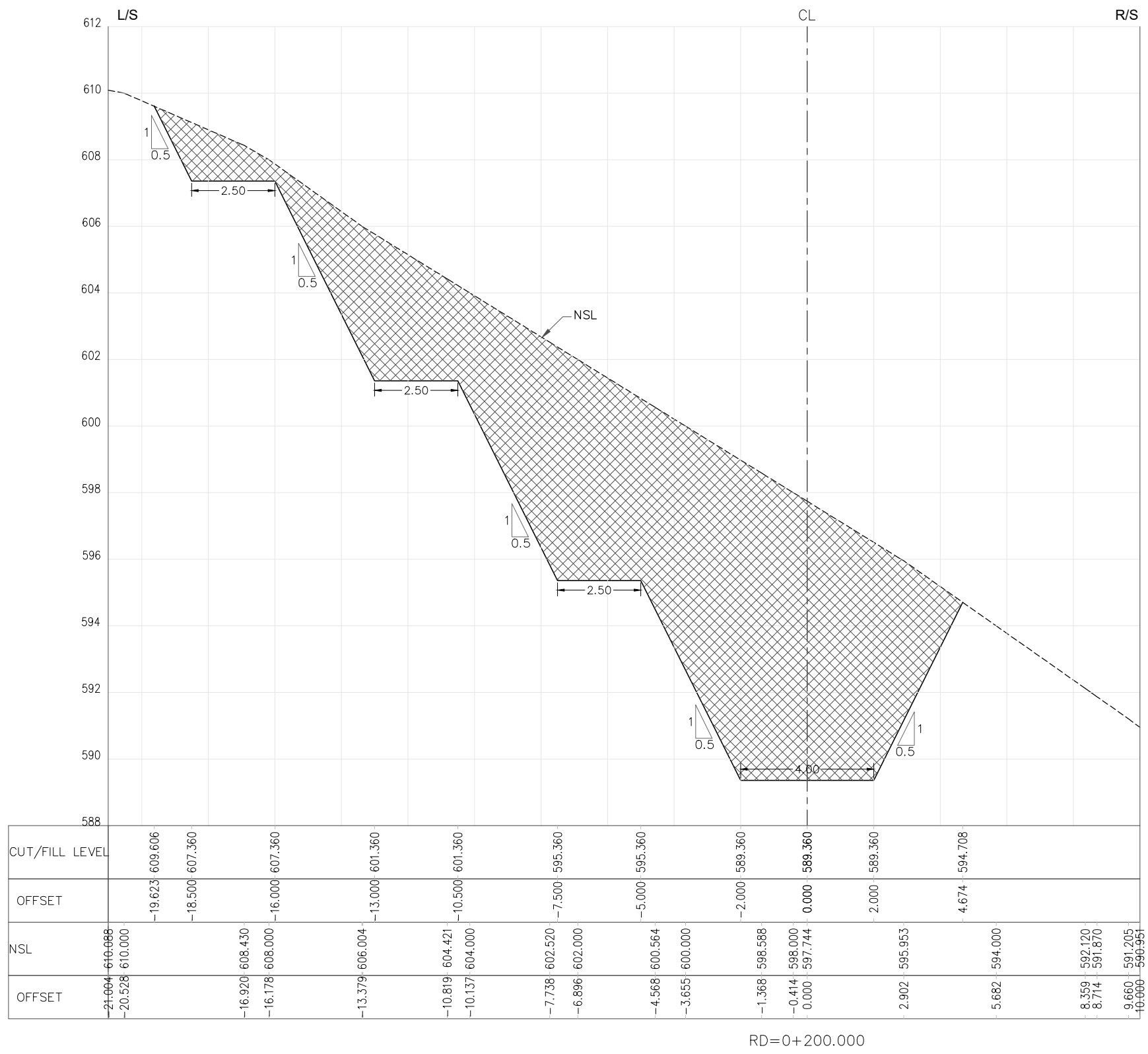
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	Dec-2021

DRG.No:- GHD-BD-RD-05 SHEET:-01 OF 22 SUB SH. ---

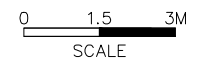
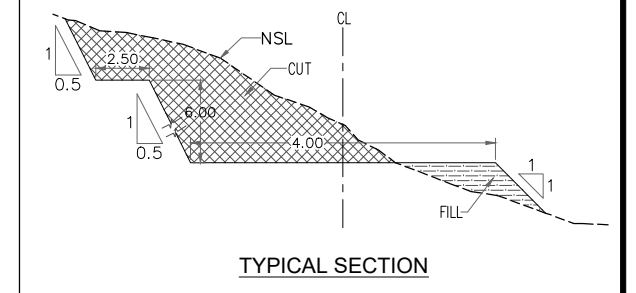


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA
FILL AREA



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

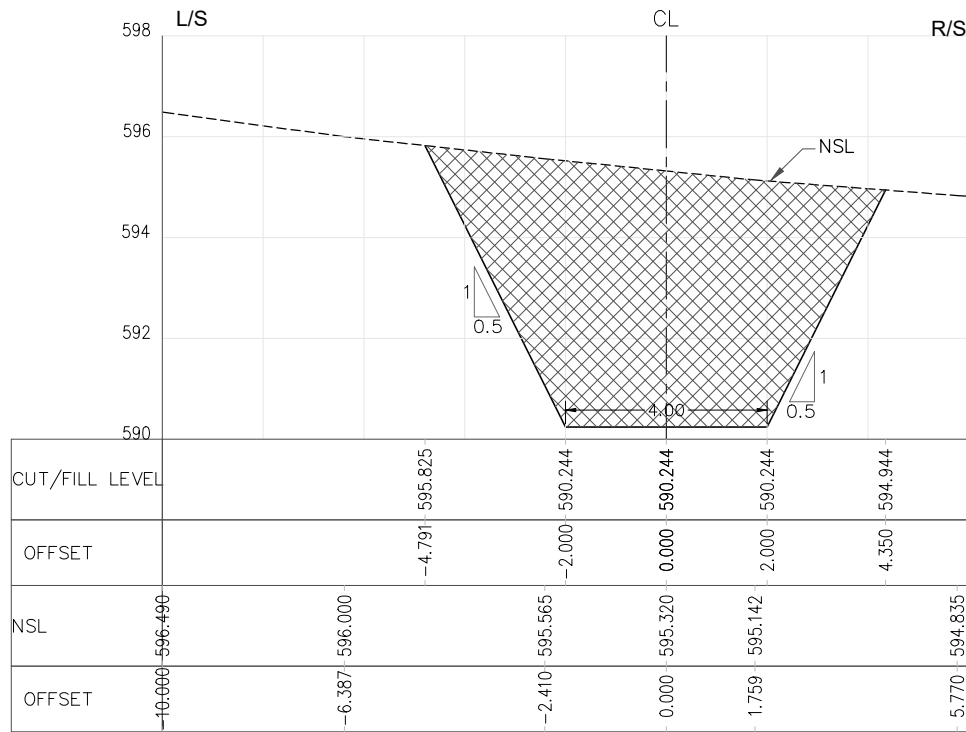
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec. 2021

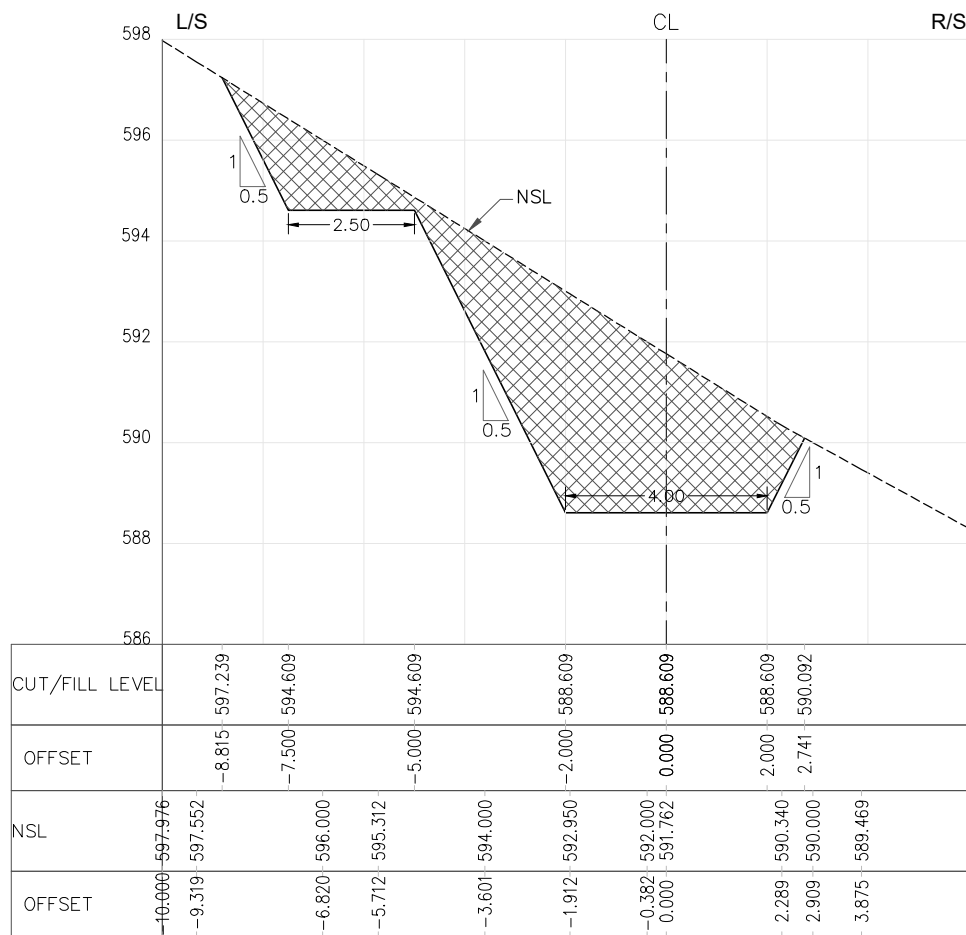
DRG.No:- GHD-BD-RD-05 SHEET:-02 OF 22 SUB SH.



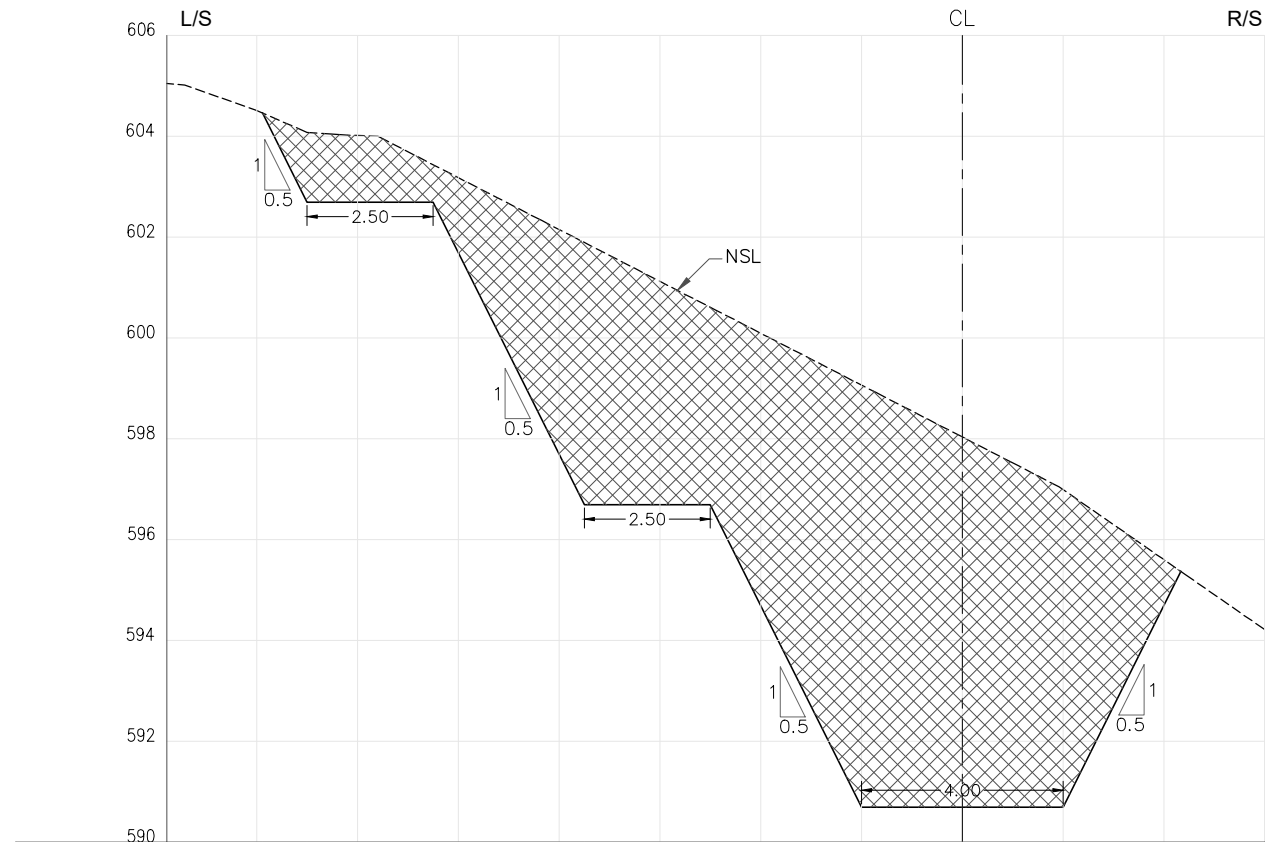
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RD=0+250.000



RD=0+350.000



RD=0+300.000

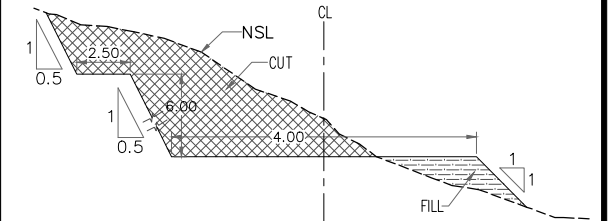
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

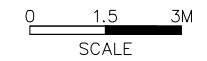
LEGEND:-

CUT AREA

FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

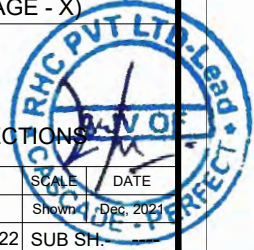
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

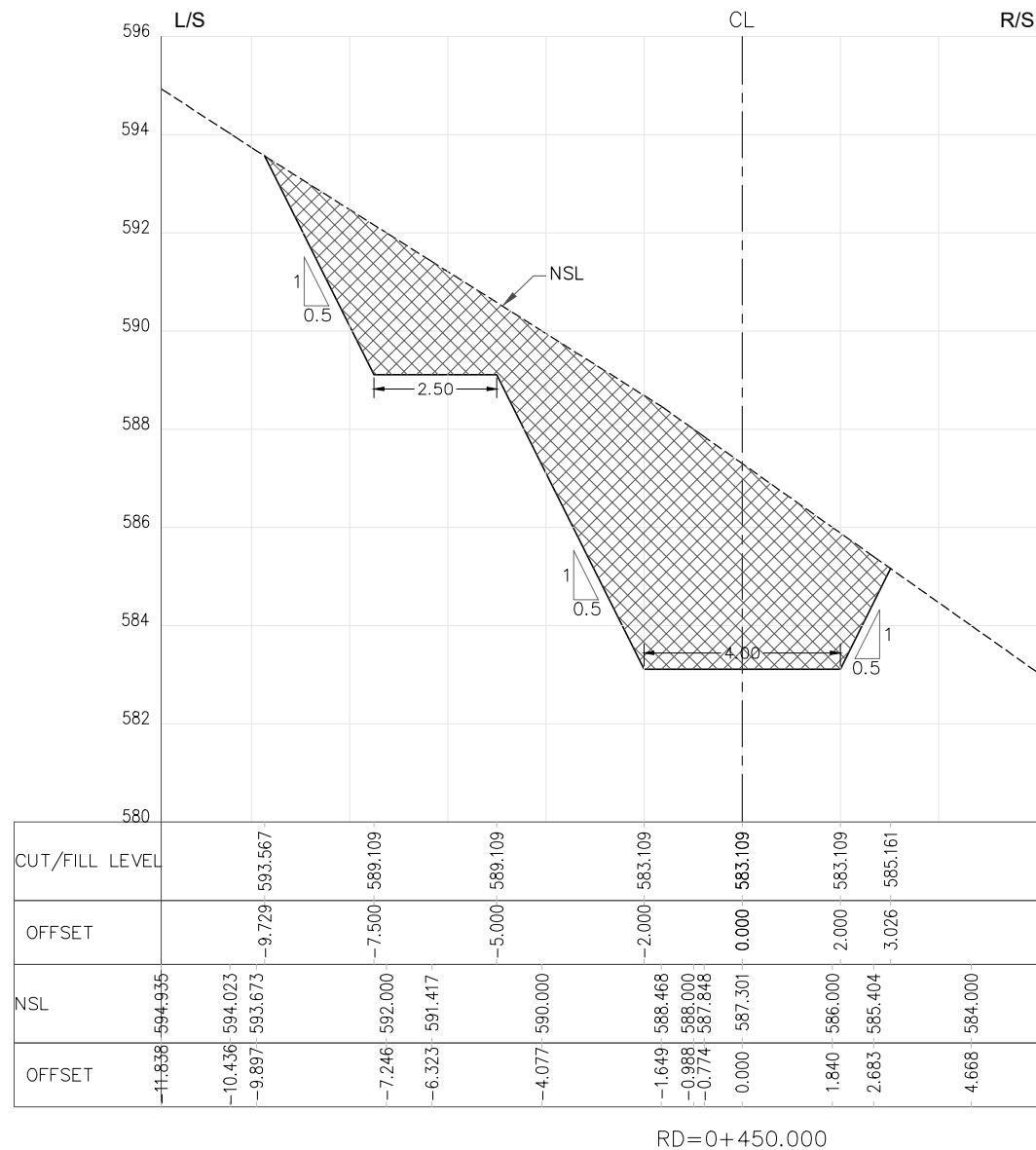
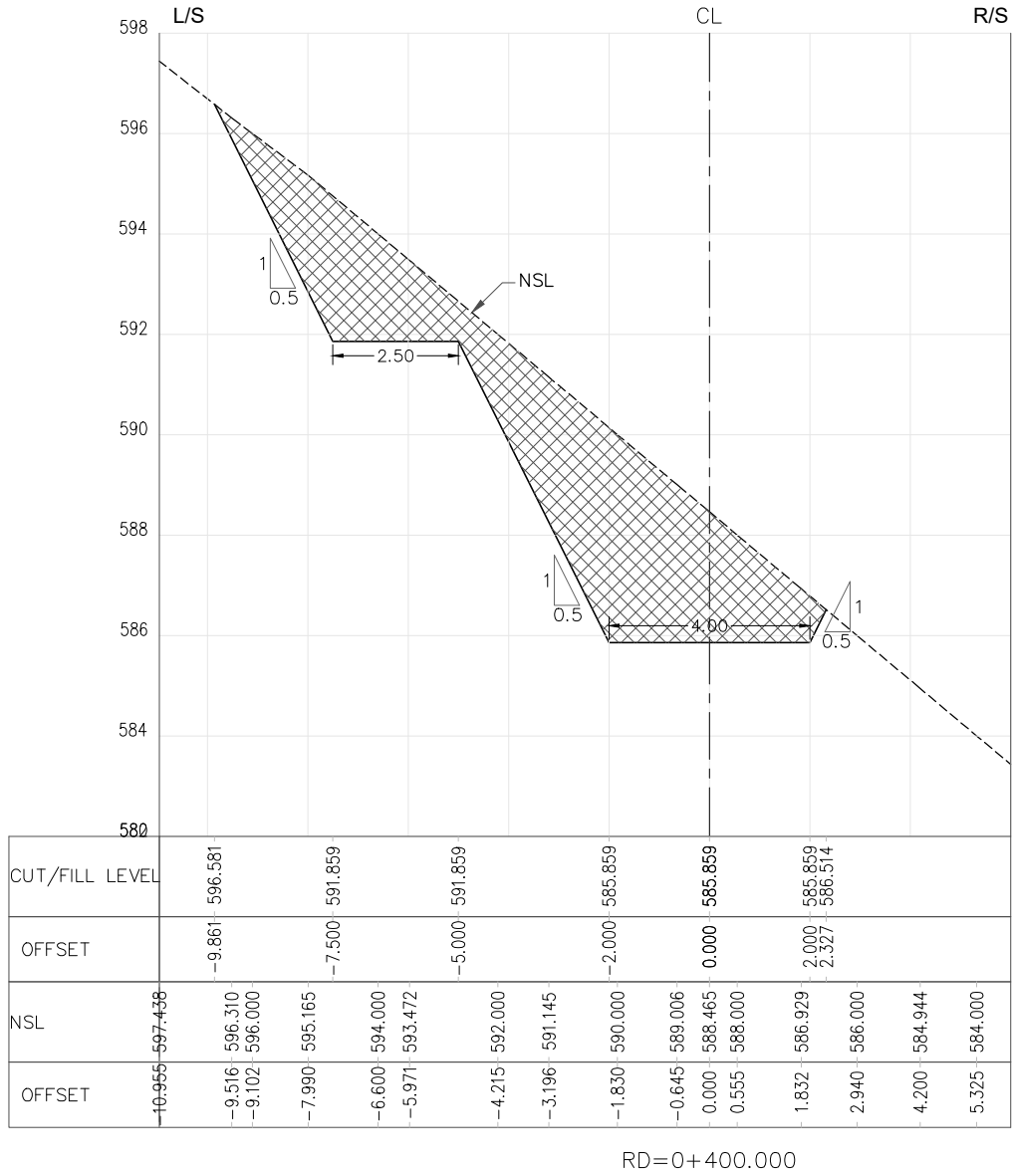
GHOZHEZAI DAM
T.S.D TANK

TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	03 Dec. 2021
DRG.No:- GHD-BD-RD-05			SHEET:-03 OF 22		SUB SH.

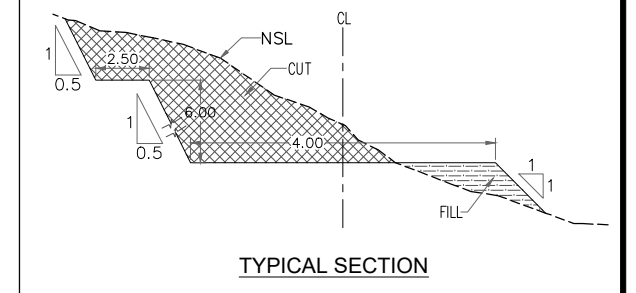


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [Cross-hatched pattern]
FILL AREA [Horizontal line pattern]



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

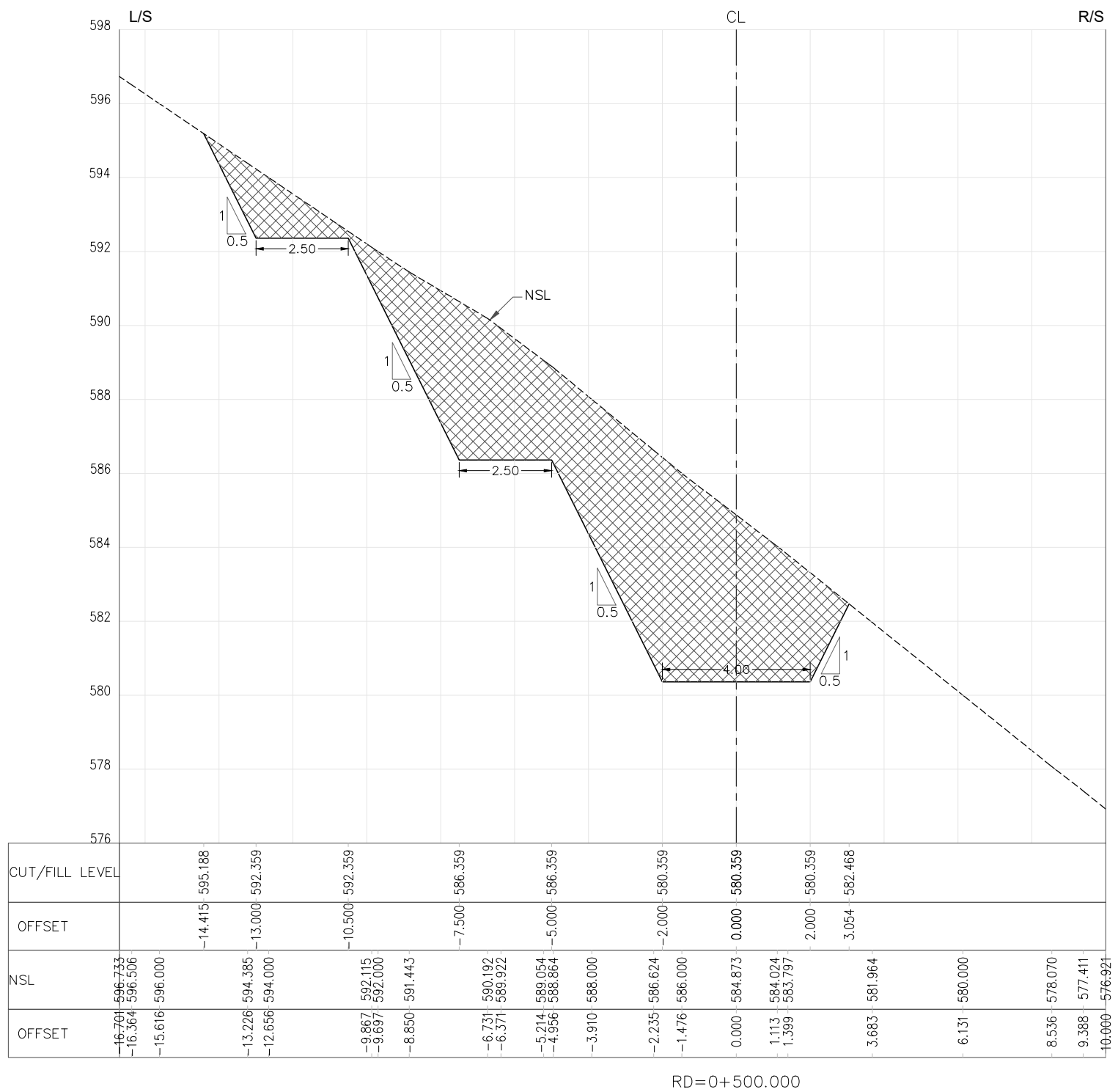
TITLE:
GHOZHEZAI DAM T.S.D TANK
DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021

DRG.No:- GHD-BD-RD-05 SHEET:-04 OF 22 SUB SH.

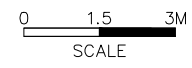
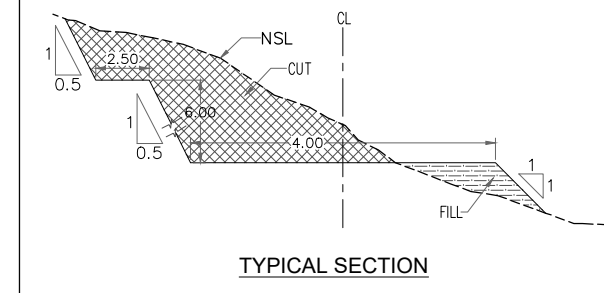


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [Cross-hatched pattern]
FILL AREA [Horizontal line pattern]



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED
 FOR BIDDING ONLY

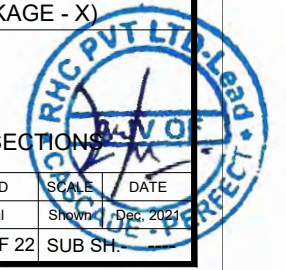
CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCAD CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERM PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

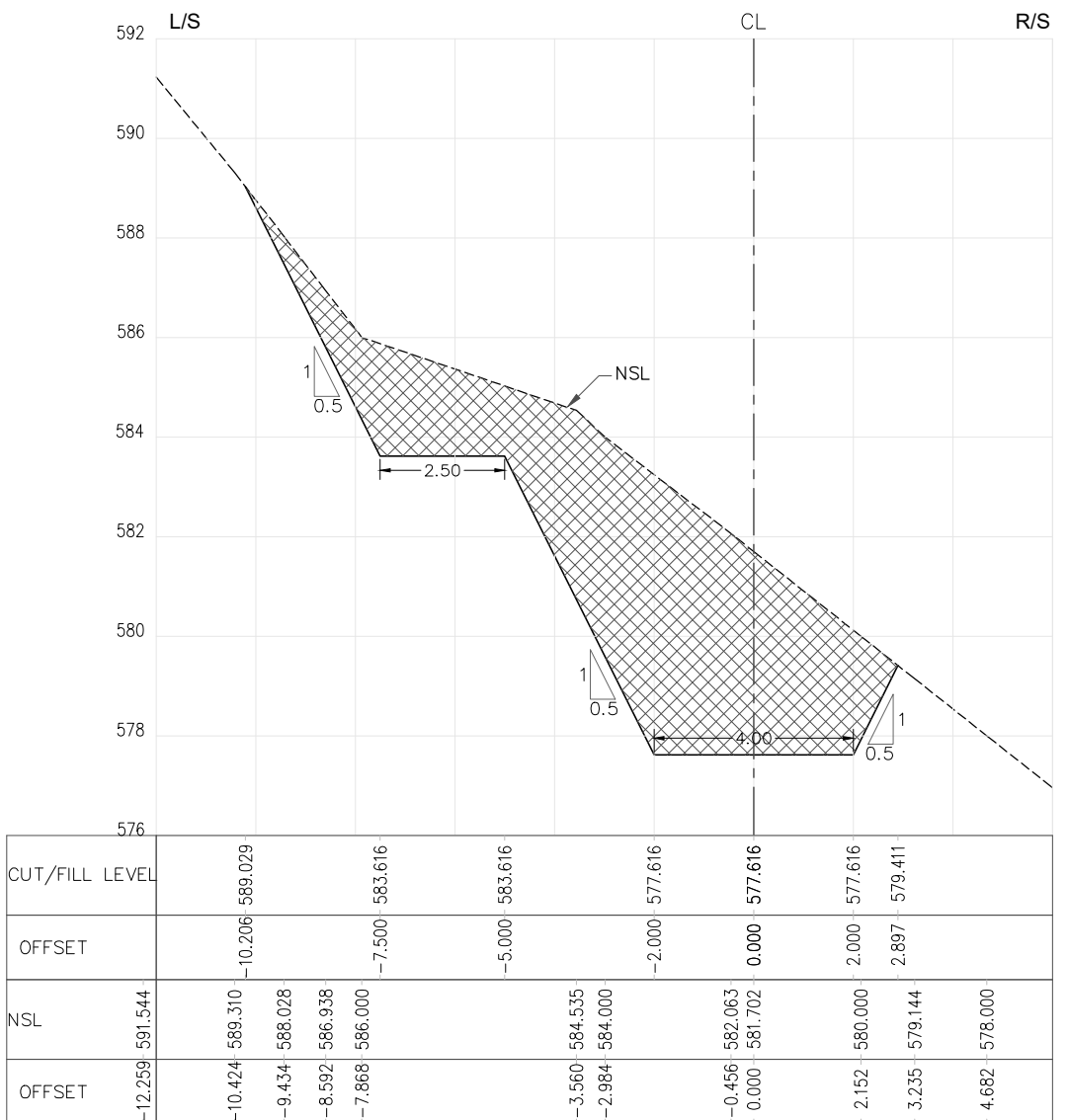
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

TITLE: GHOZHEZAI DAM
T.S.D TANK
DAM ACCESS ROAD CROSS SECTIONS

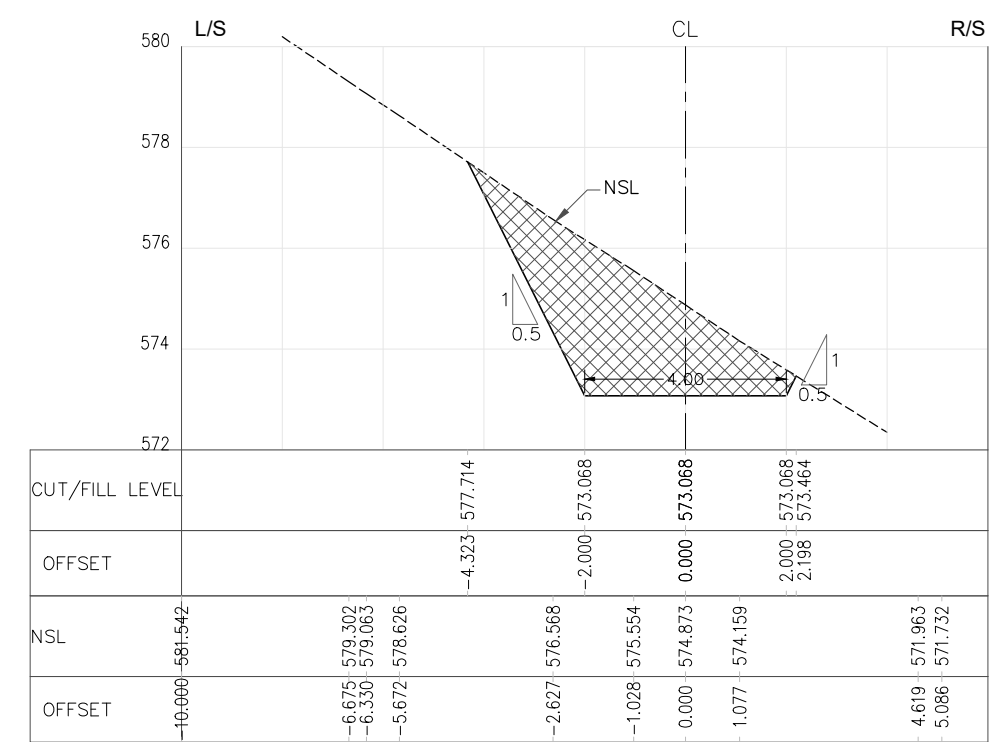
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021
DRG.No:- GHD-BD-RD-05			SHEET:-05 OF 22		SUB SH.



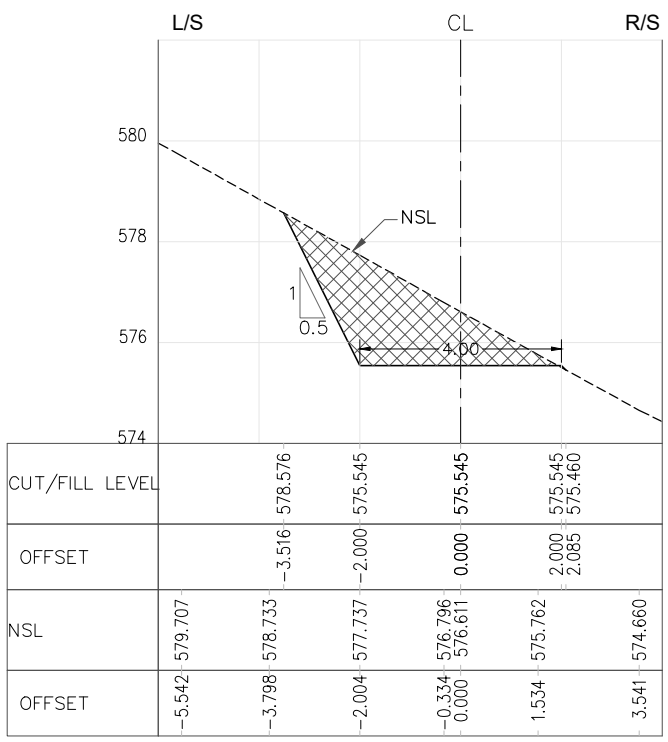
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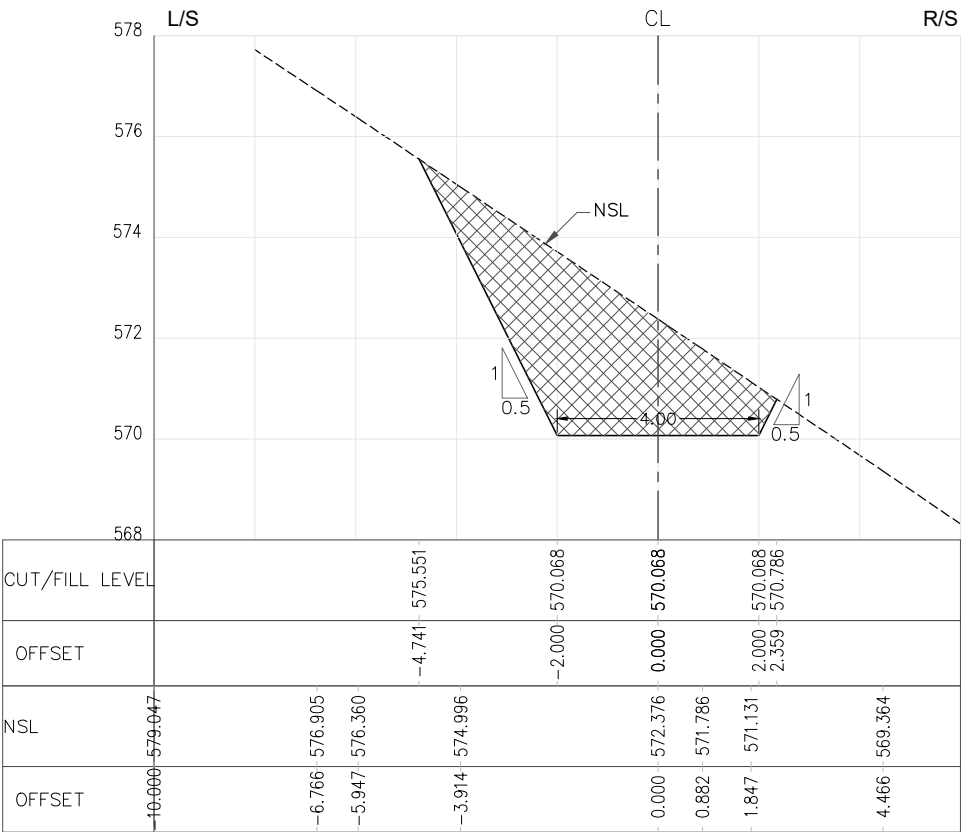
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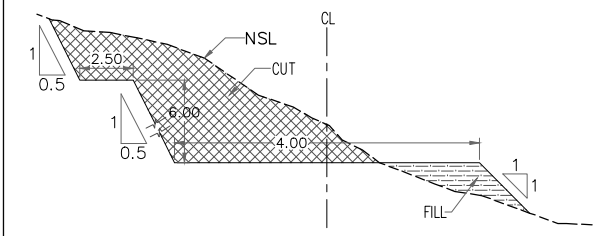
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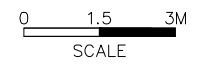
RD=0+700.000

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [Hatched pattern]
FILL AREA [Horizontal lines pattern]



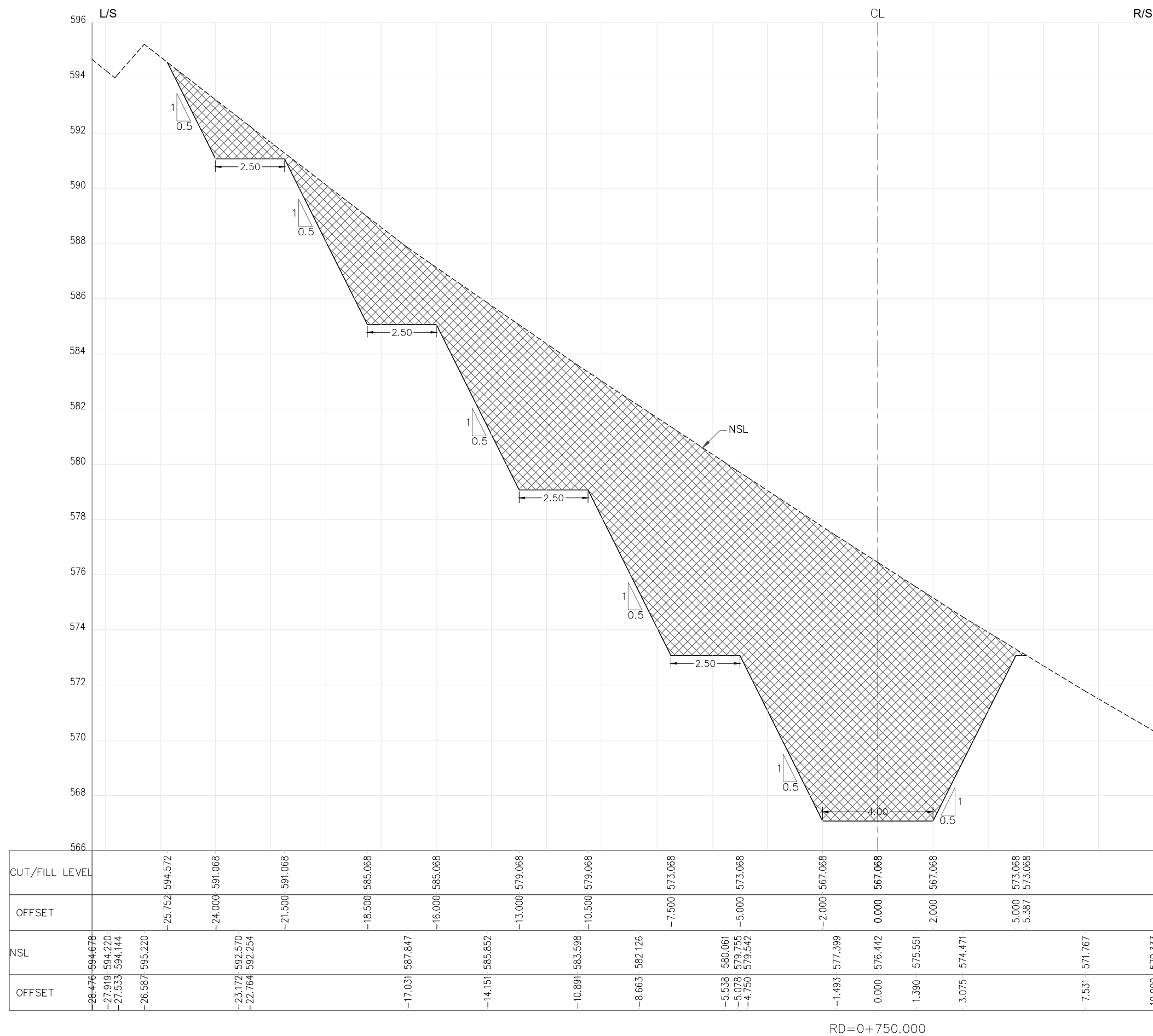
TYPICAL SECTION



REFERENCE DRAWINGS :-					
GHD-BD-RD-01, GHD-BD-RD-02					
DRAWING IS RELEASED					
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CLIENT: PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.					
CONSULTANTS: A J.V OF RHC REHMAN HABIB CONSULTANTS (PVT) LTD. CASCADE GROUP OF ENGINEERING & CONSULTANTS PERFECT ENGINEERING & MANAGEMENT CONSULTANTS					
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)					
GHOZHEZAI DAM T.S.D TANK					
TITLE: DAM ACCESS ROAD CROSS SECTIONS					
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021
DRG.No:- GHD-BD-RD-05			SHEET:-06 OF 22		SUB SH.



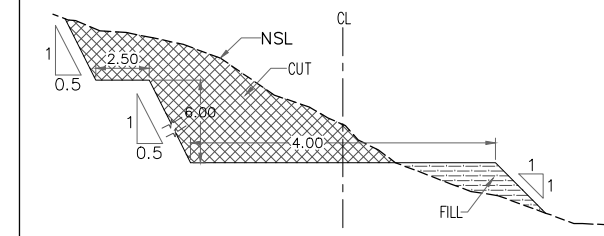
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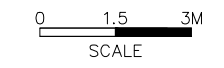
RD=0+750.000

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA
FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

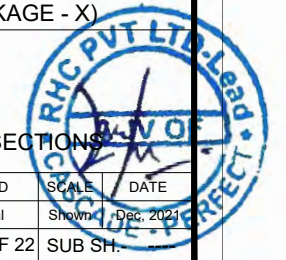
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

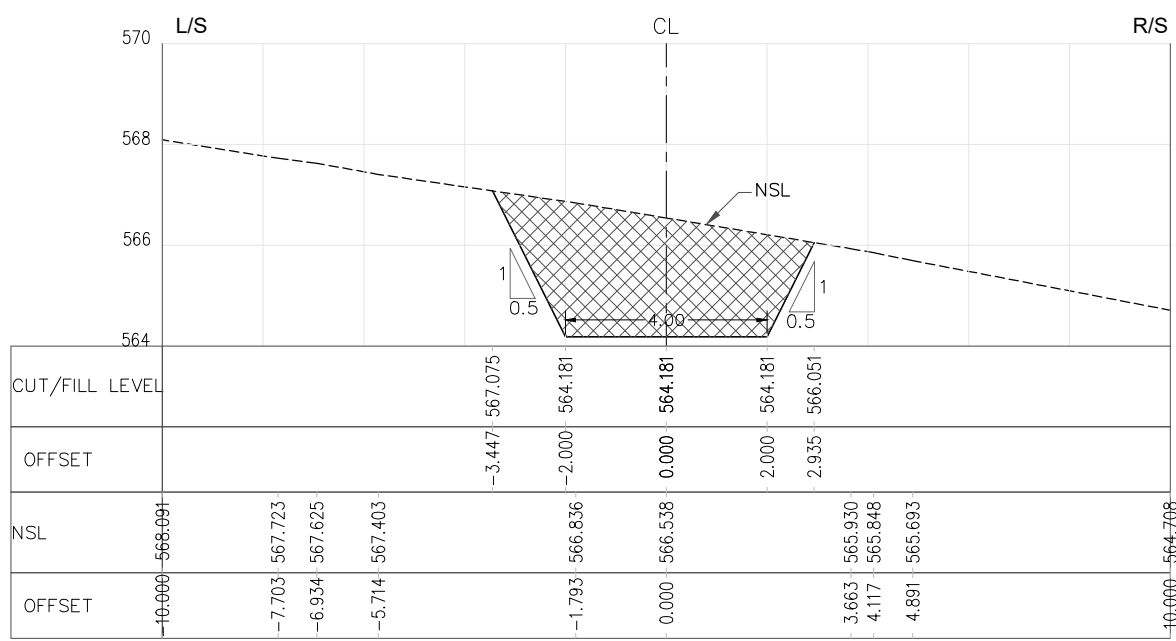
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	06 Dec 2021

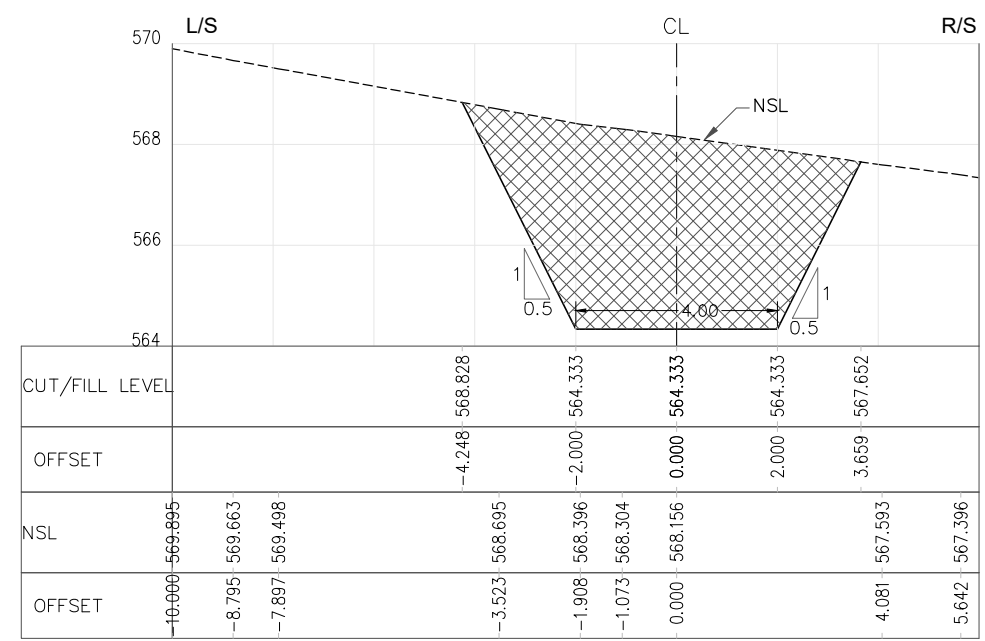
DRG.No:- GHD-BD-RD-05 SHEET:-07 OF 22 SUB SH.



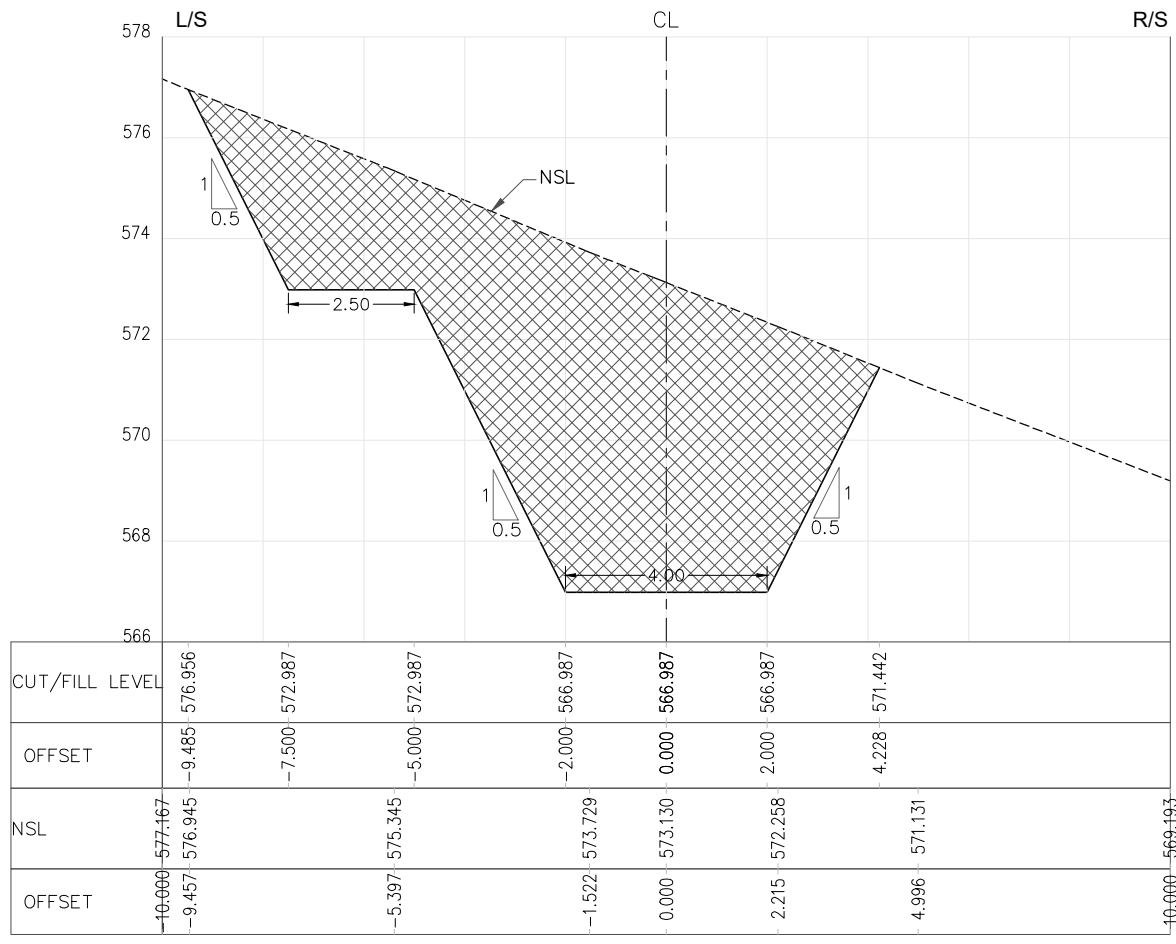
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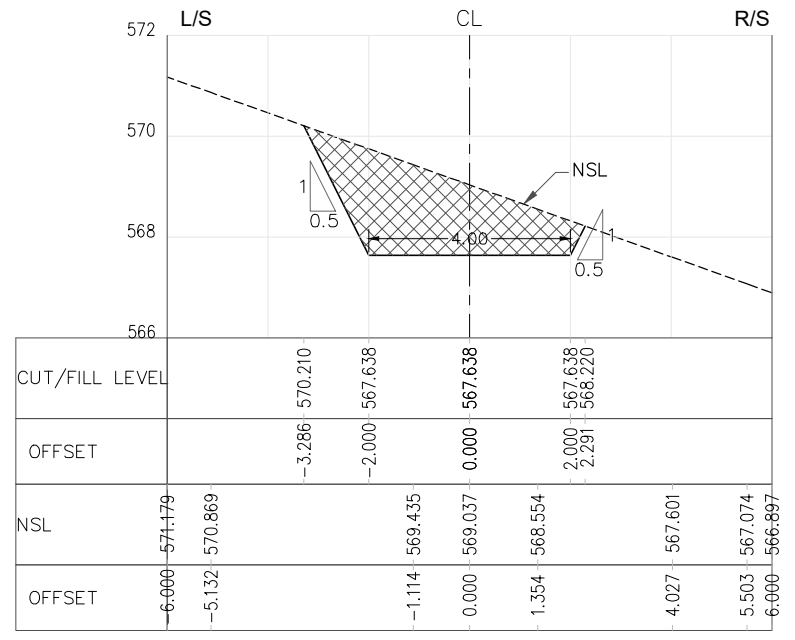
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RD=0+850.000



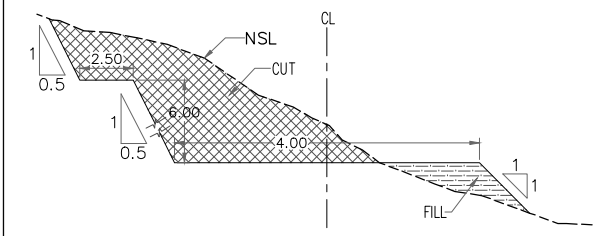
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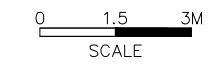
RD=0+950.000

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [Hatched pattern]
FILL AREA [Horizontal lines pattern]



TYPICAL SECTION



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

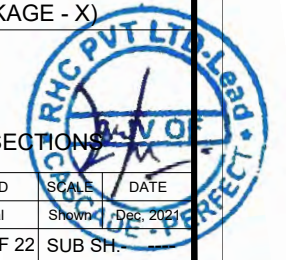
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

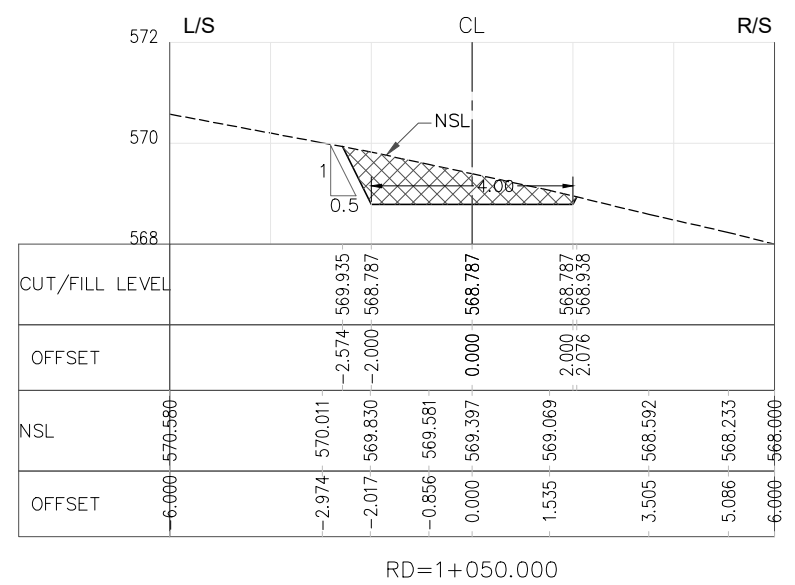
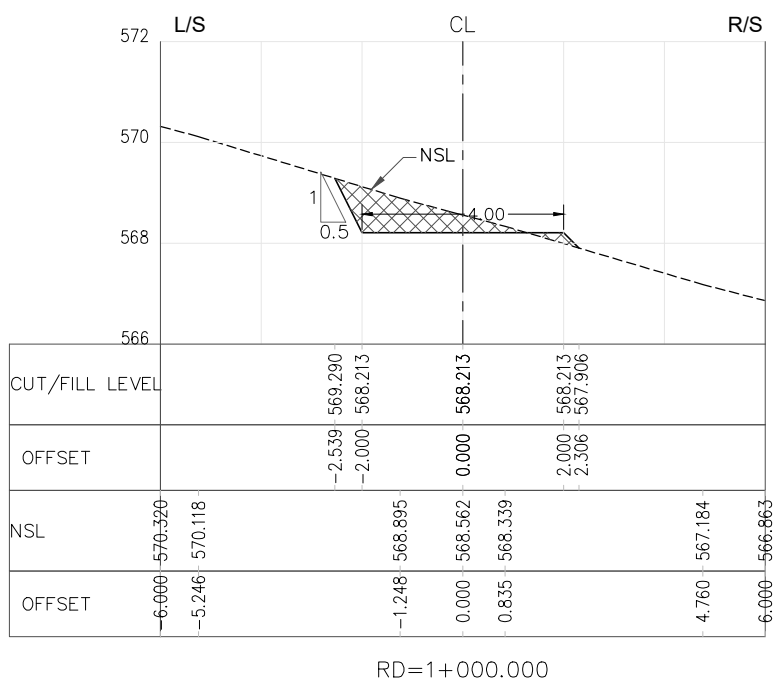
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	08 Dec. 2021

DRG.No:- GHD-BD-RD-05 SHEET:-08 OF 22 SUB SH.

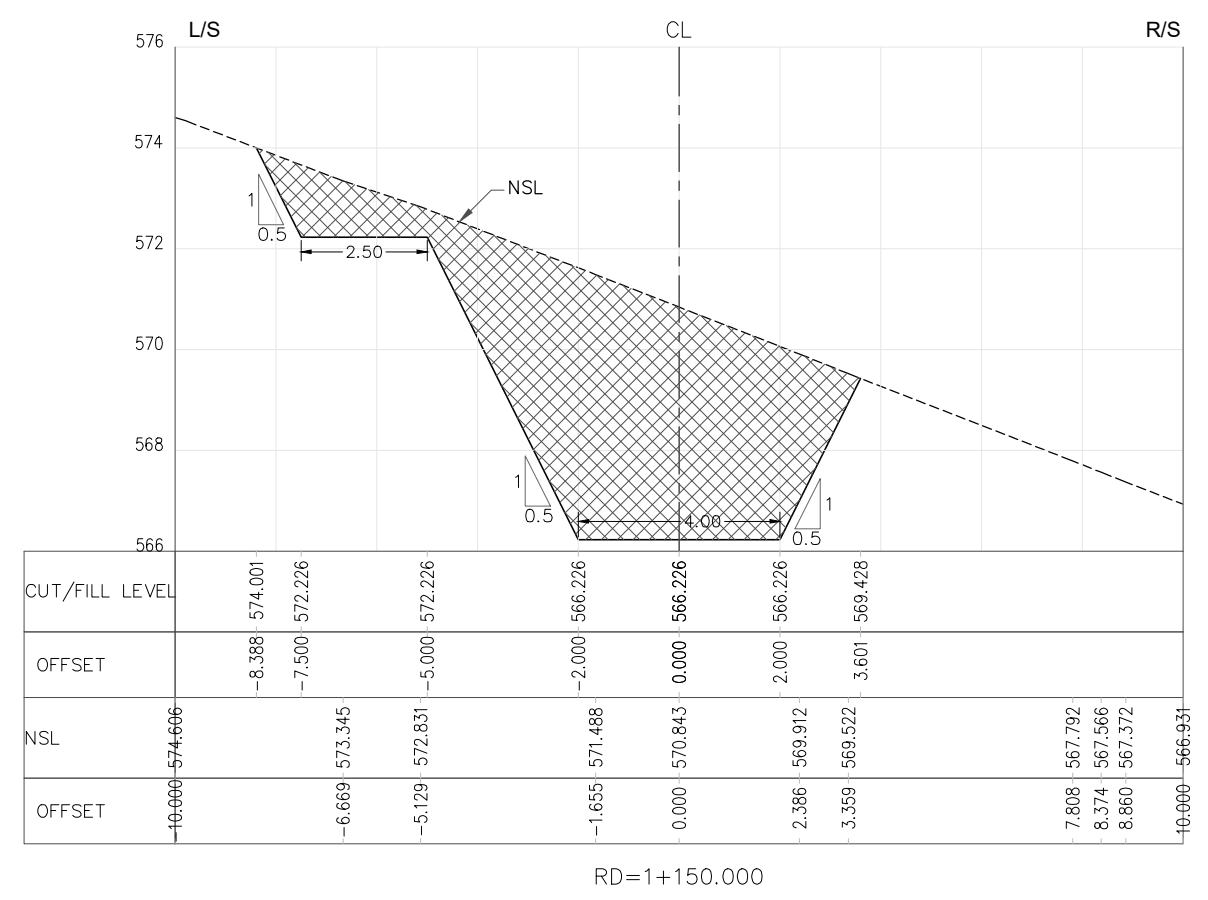
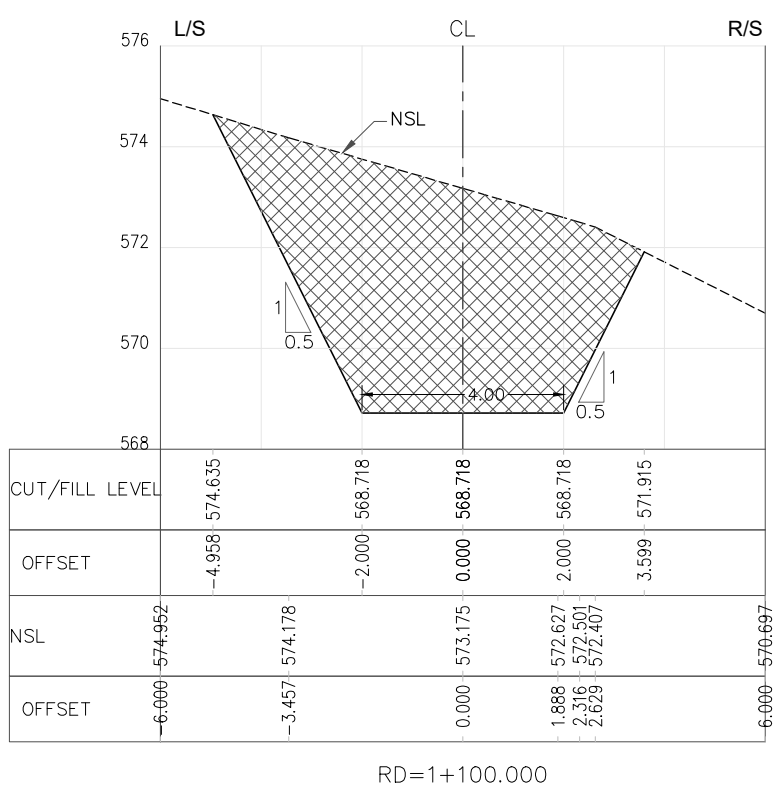
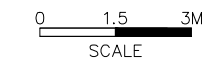
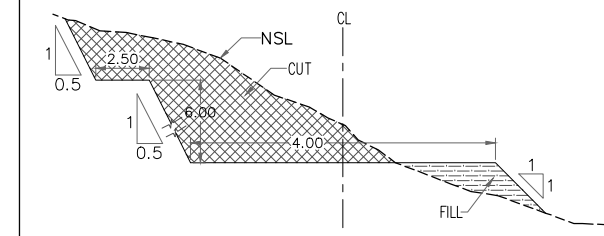


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [Cross-hatched pattern]
FILL AREA [Horizontal line pattern]



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:
A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

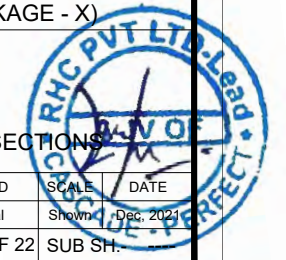
PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM T.S.D TANK

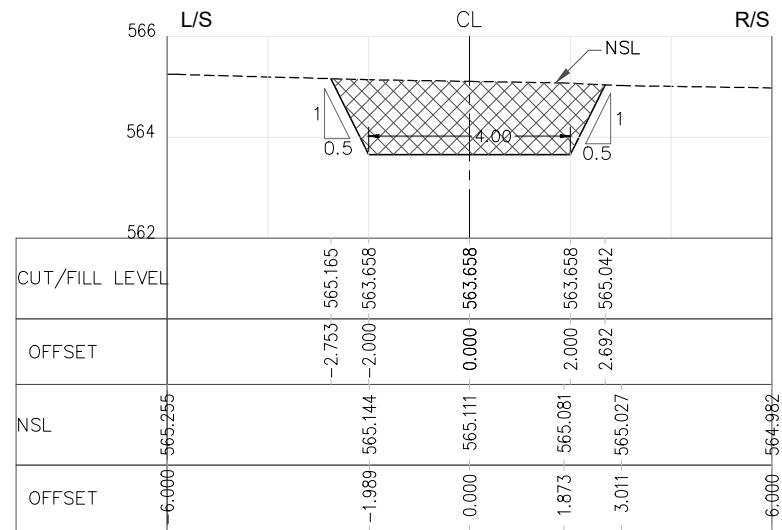
TITLE: **DAM ACCESS ROAD CROSS SECTIONS**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	09 Dec 2021

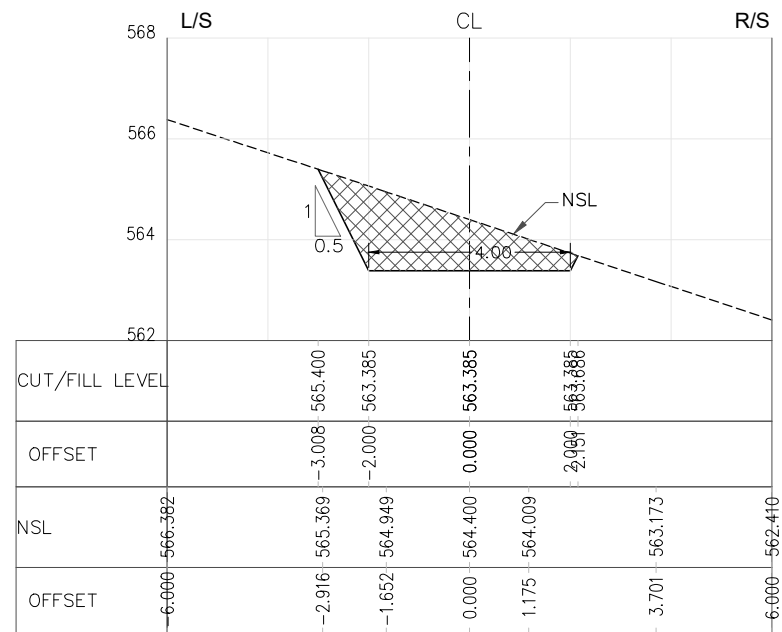
DRG.No:- GHD-BD-RD-05 SHEET:-09 OF 22 SUB SH.



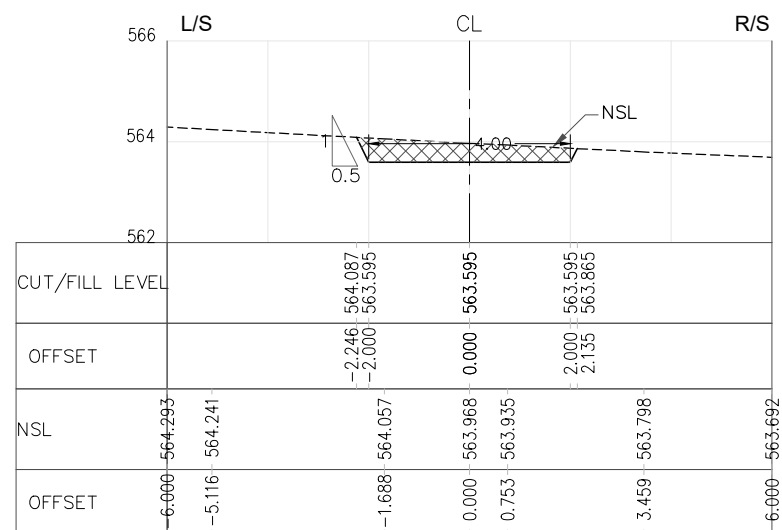
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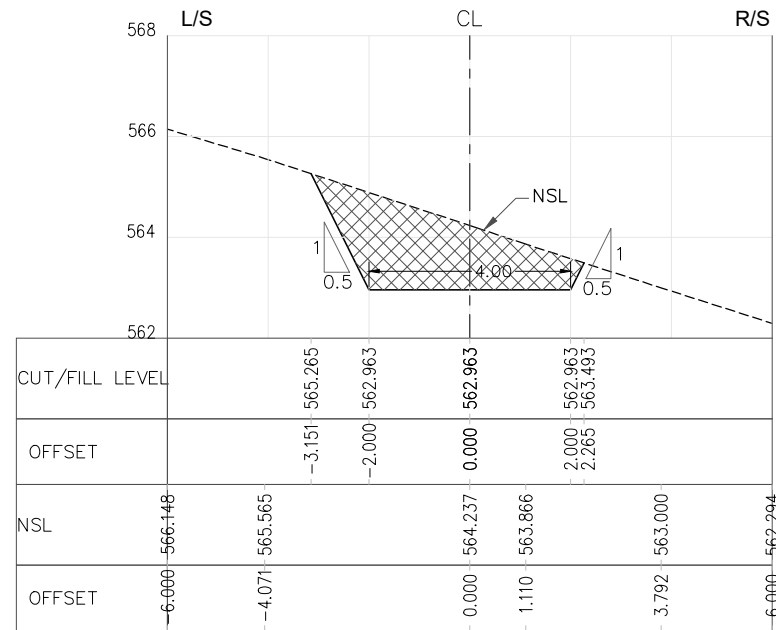
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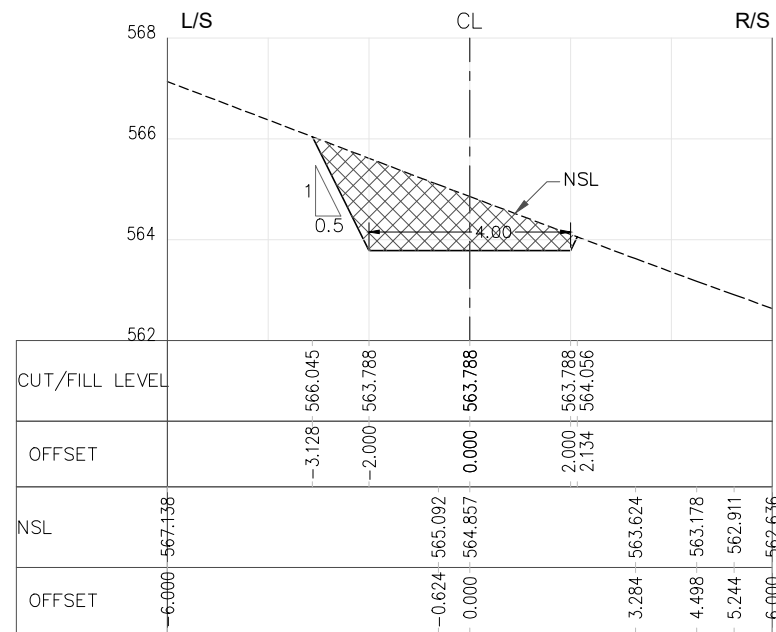
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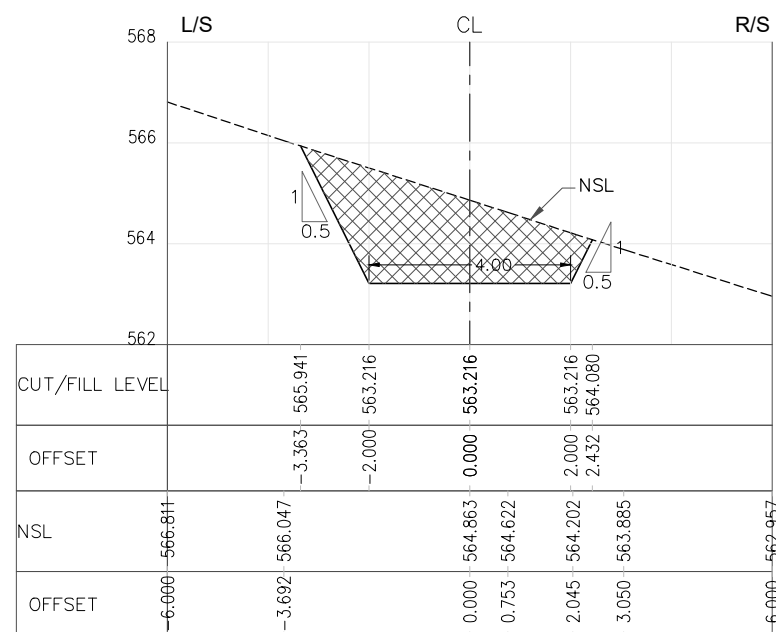
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RD=1+250.000



RD=1+350.000



RD=1+450.000

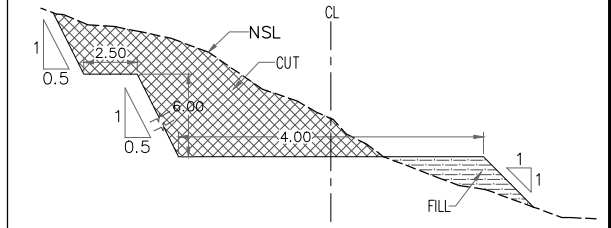
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

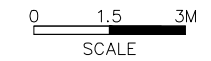
LEGEND:-

CUT AREA

FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

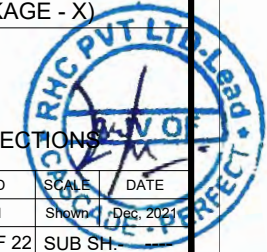
CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP
 OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

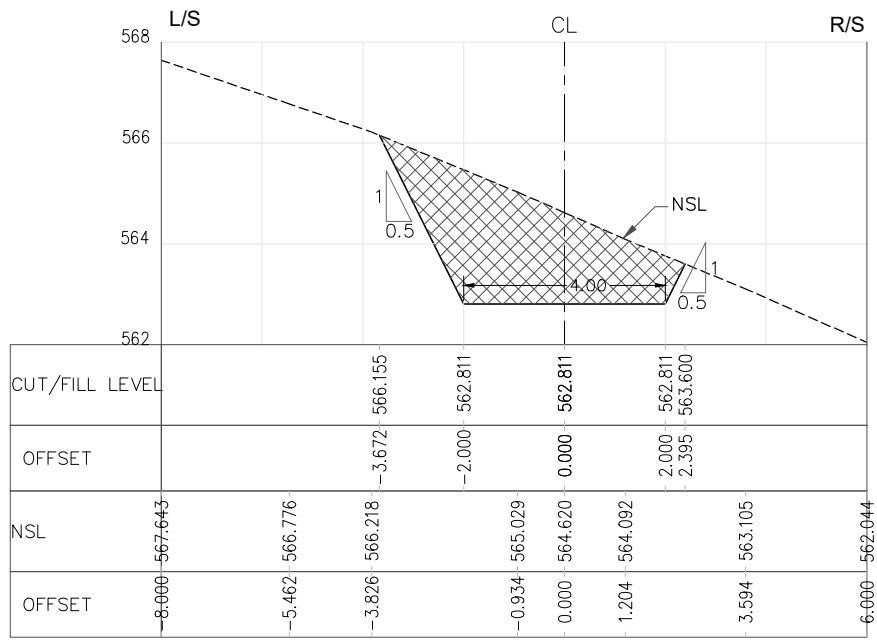
PROJECT:
 CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK
TITLE: DAM ACCESS ROAD CROSS SECTIONS

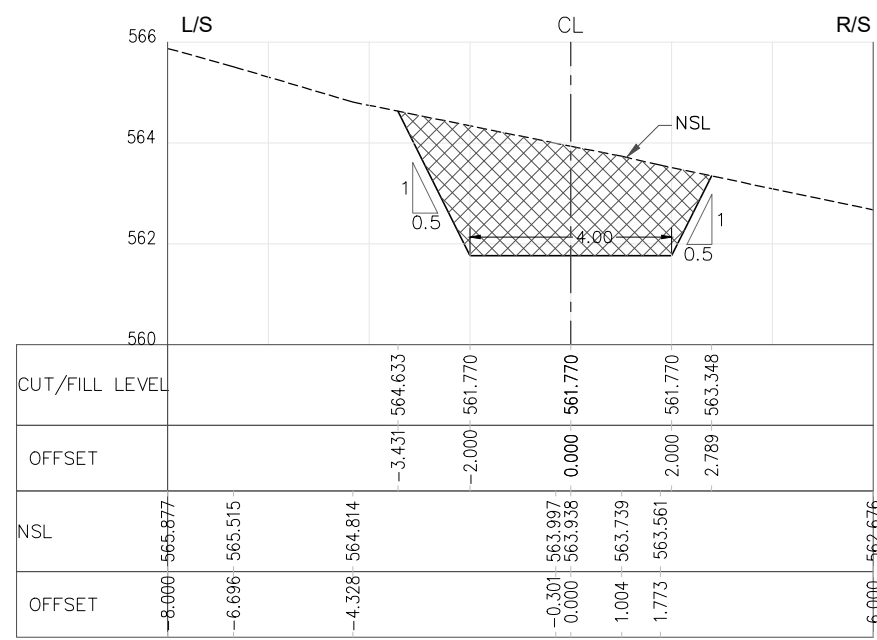
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec. 2021
DRG.No:- GHD-BD-RD-05				SHEET:-10 OF 22	



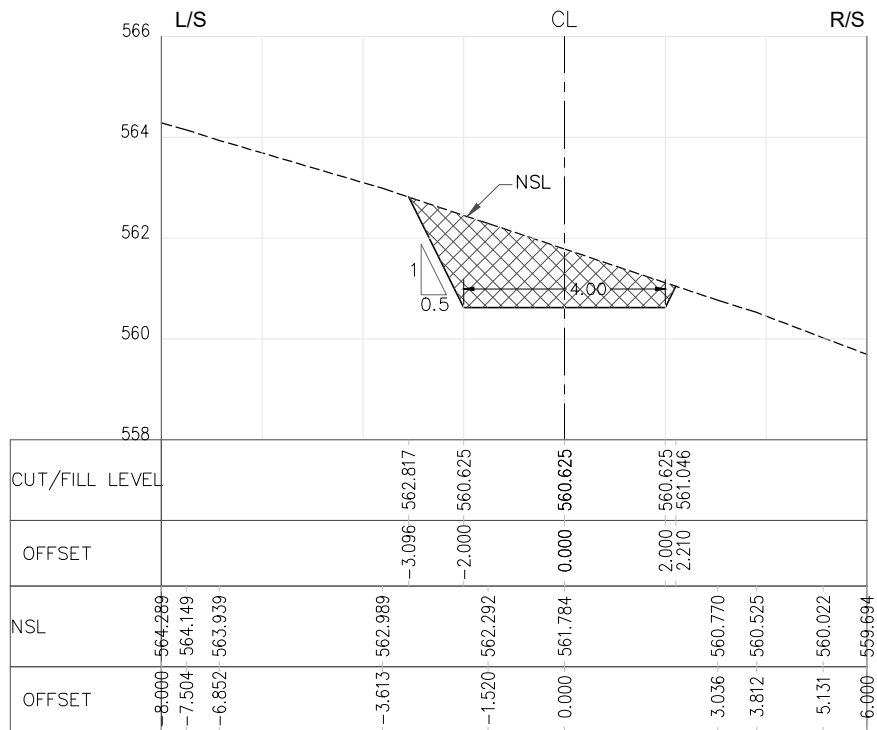
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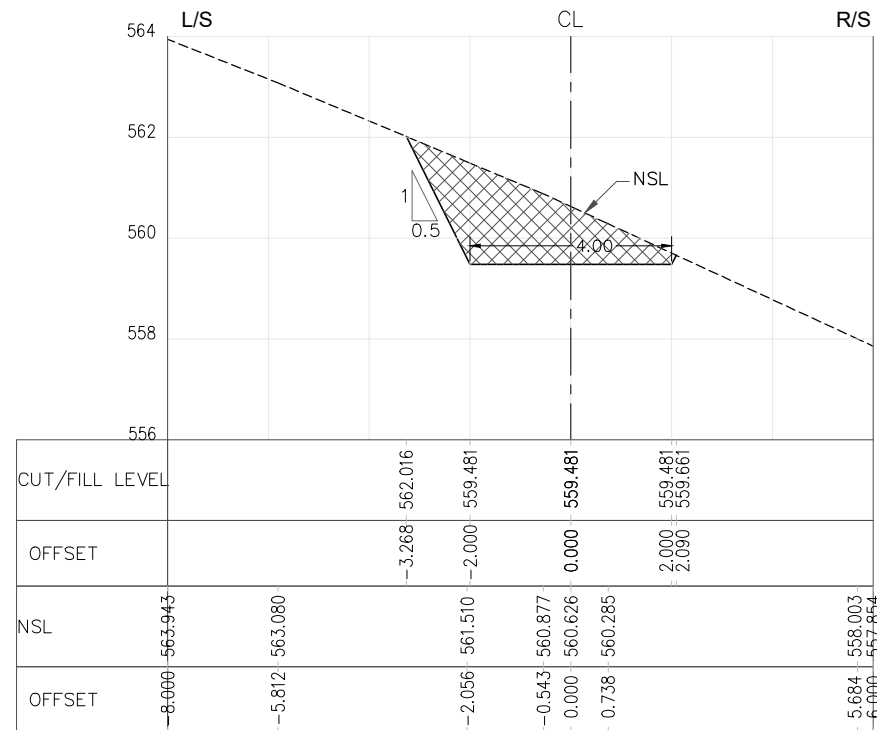
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RD=1+550.000



RD=1+600.000



RD=1+650.000

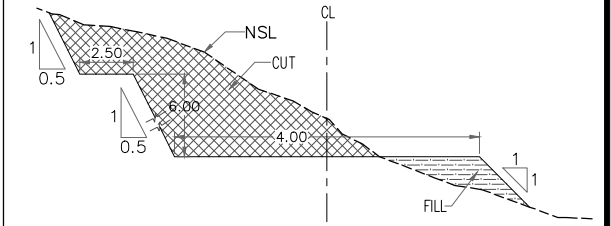
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

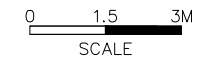
LEGEND:-

CUT AREA

FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT, KPK.

CONSULTANTS:

A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

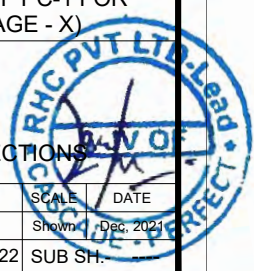
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

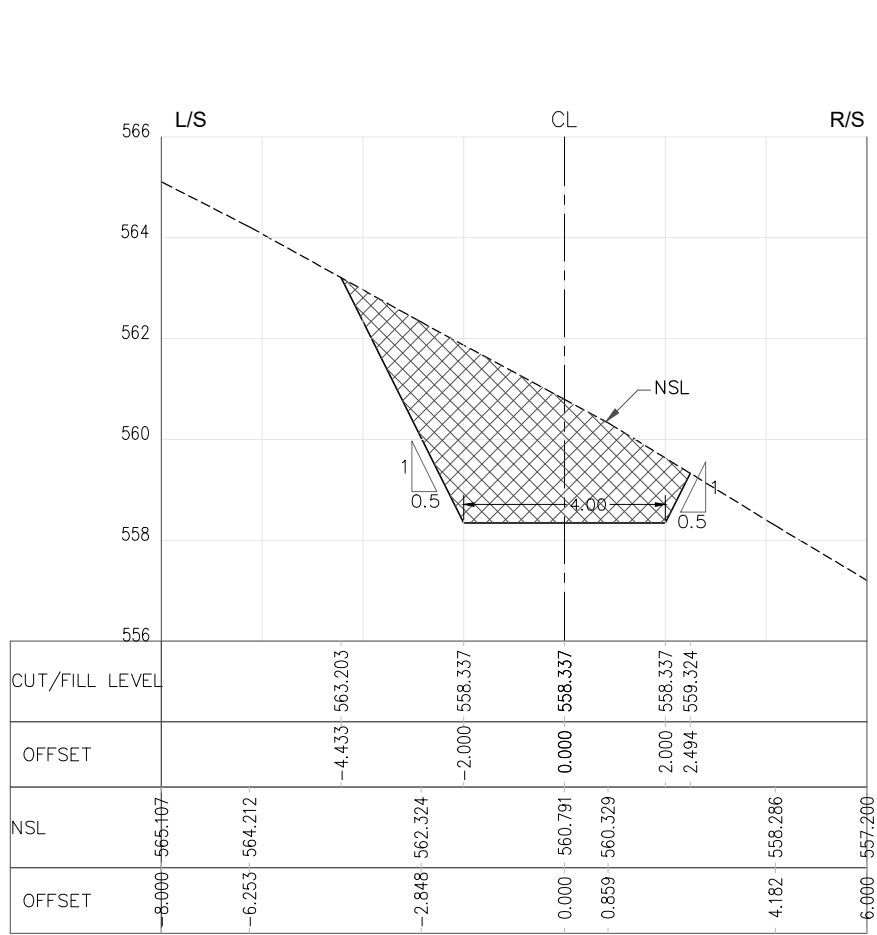
GHOZHEZAI DAM
T.S.D TANK

TITLE: DAM ACCESS ROAD CROSS SECTIONS

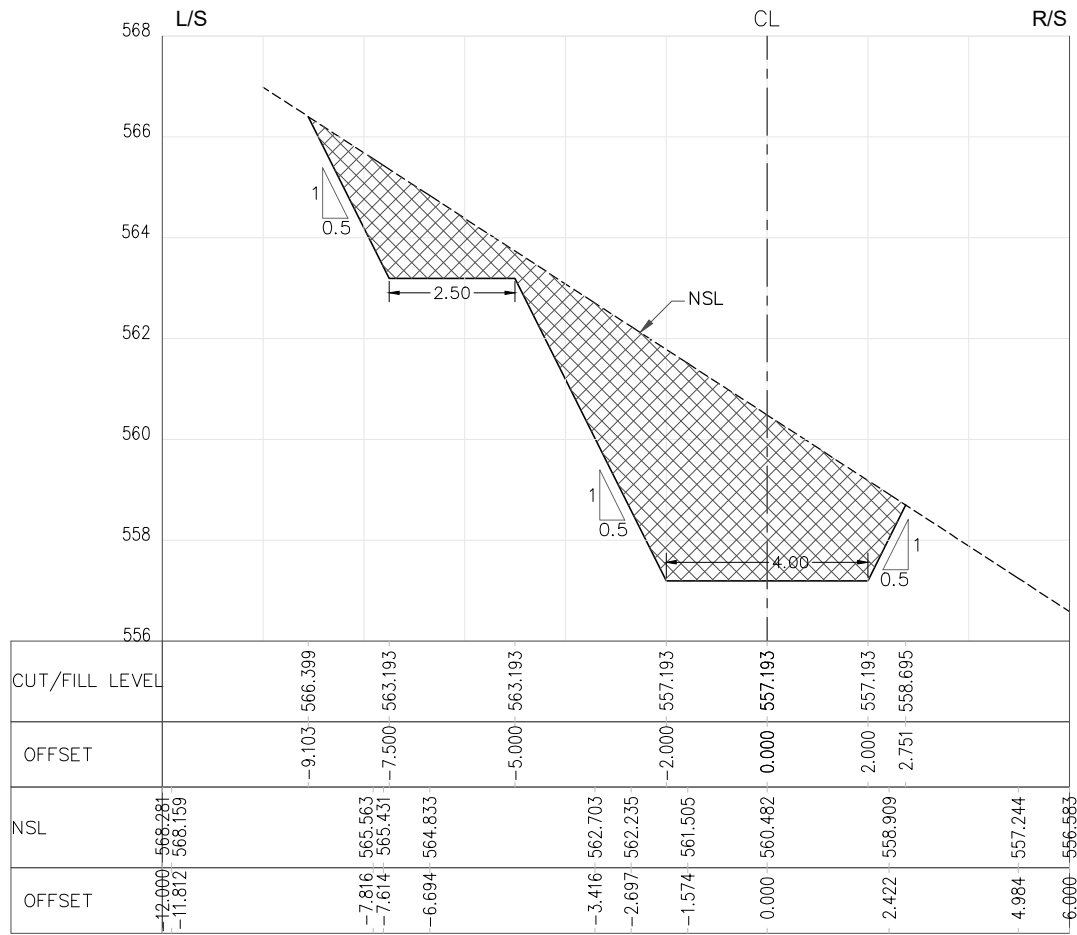
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021
DRG.No:- GHD-BD-RD-05			SHEET:-11 OF 22		SUB SH.



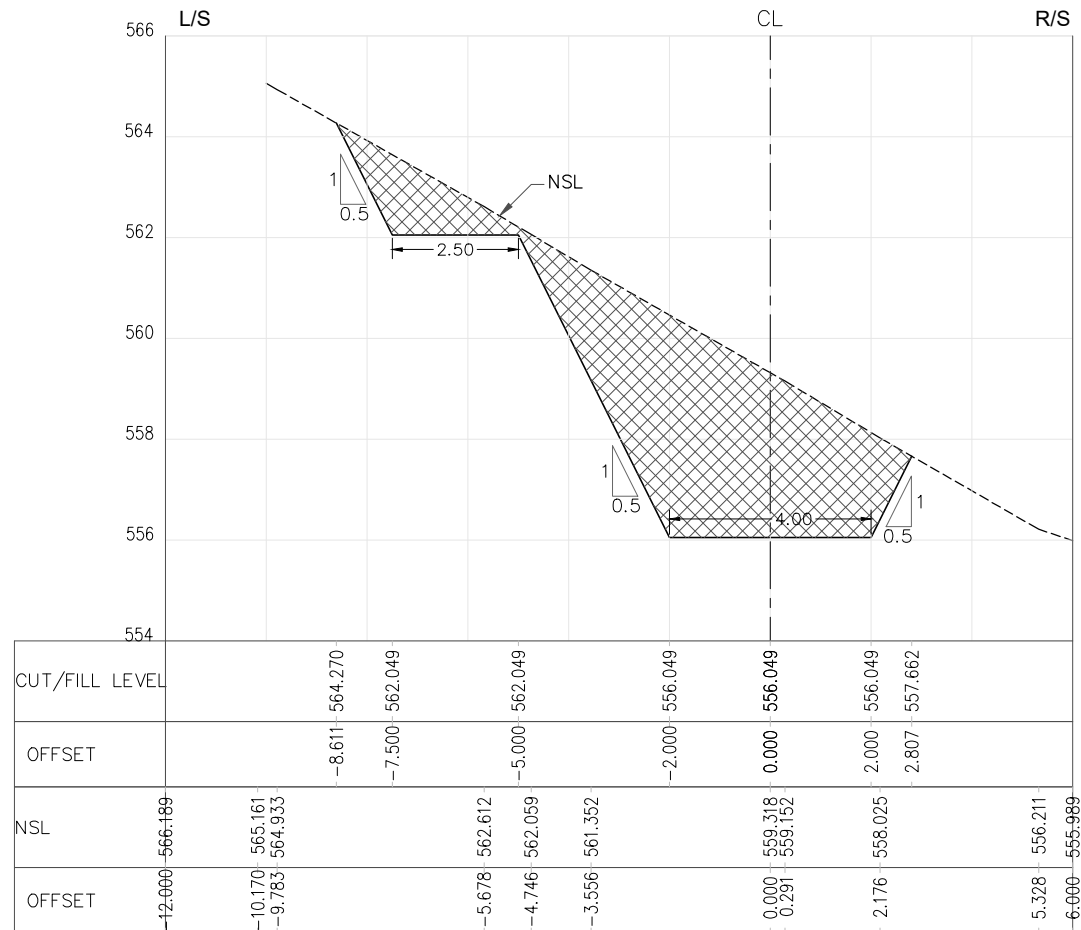
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RD=1+700.000



RD=1+750.000



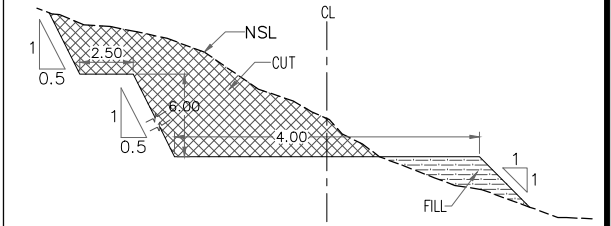
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NOTES:-

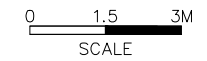
- ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-

- CUT AREA
- FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

- A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
- CASCADE GROUP**
OF ENGINEERING & CONSULTANTS
- PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

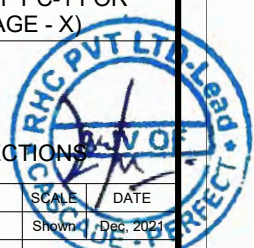
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

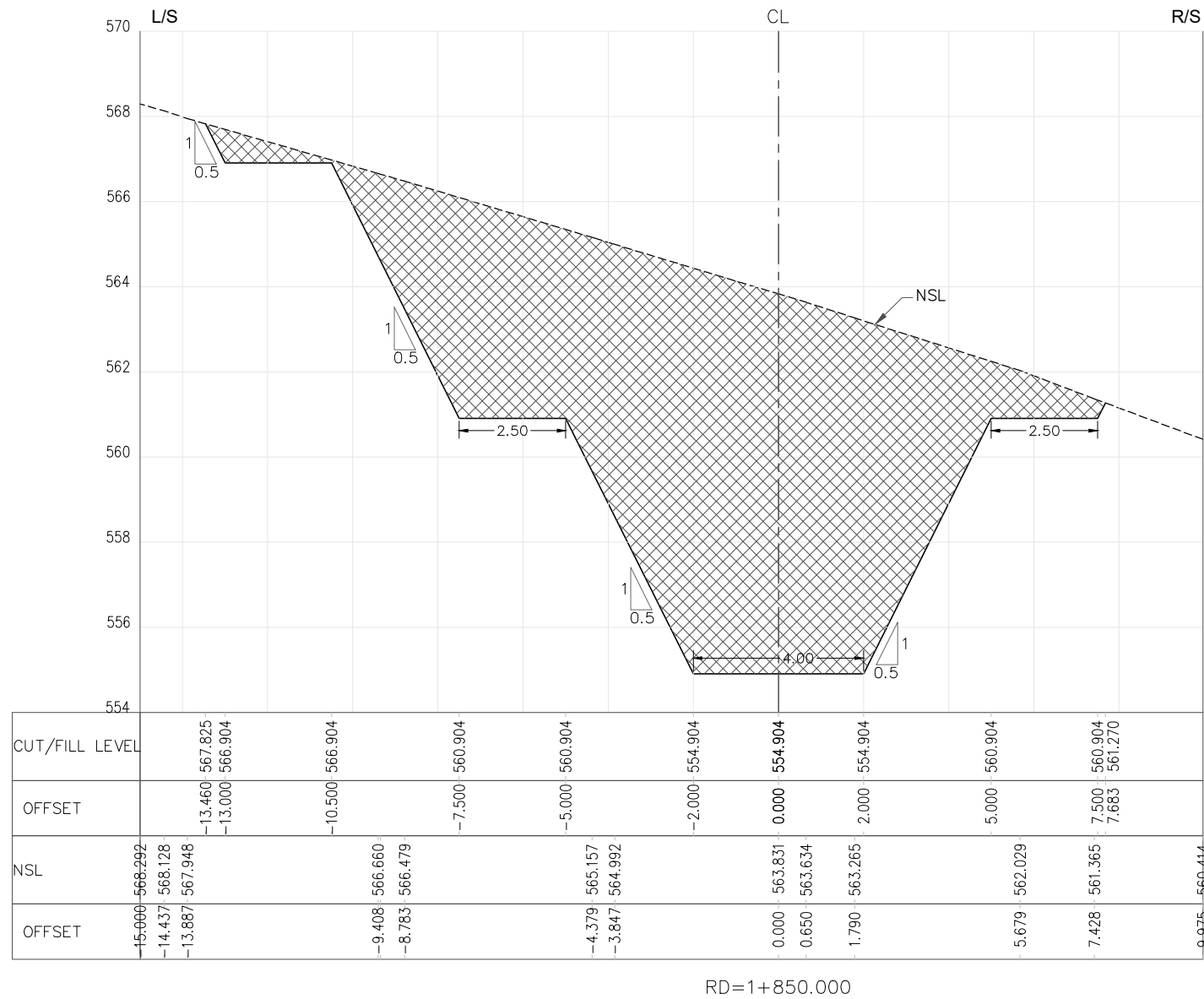
**GHOZHEZAI DAM
T.S.D TANK**
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021

DRG.No:- GHD-BD-RD-05 SHEET:-12 OF 22 SUB SH.



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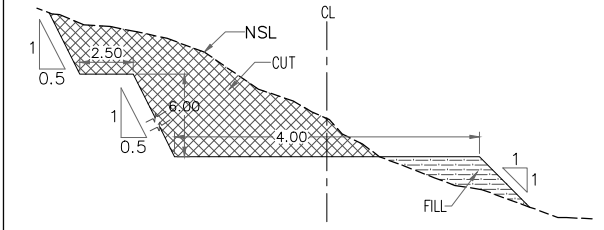
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

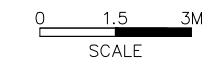
LEGEND:-

CUT AREA

FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

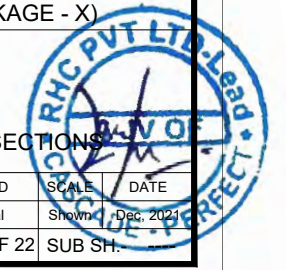
CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP
OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

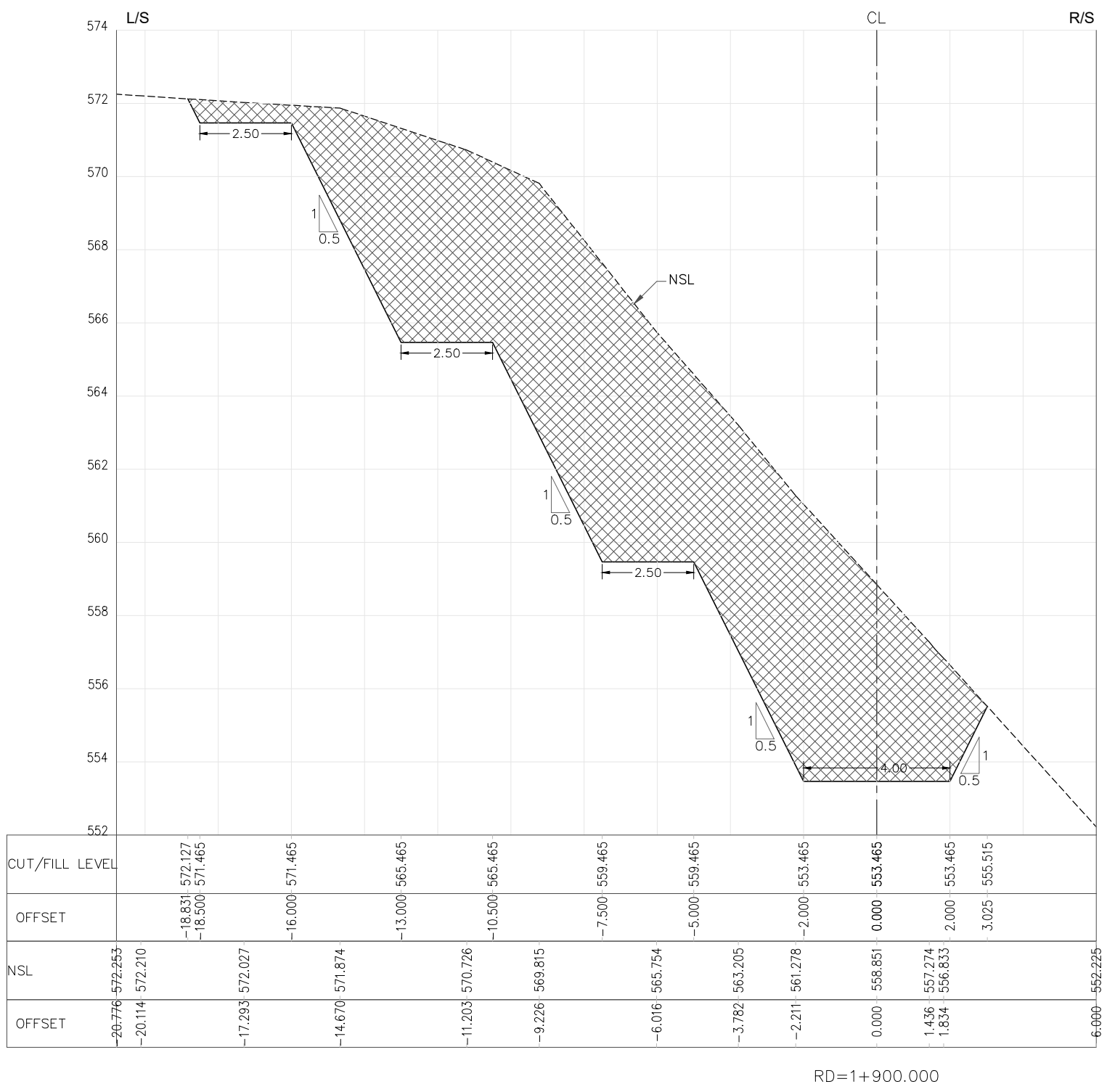
GHOZHEZAI DAM
T.S.D TANK

TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec. 2021
DRG.No:- GHD-BD-RD-05			SHEET:-13 OF 22		SUB SH.

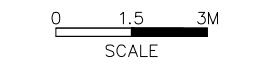
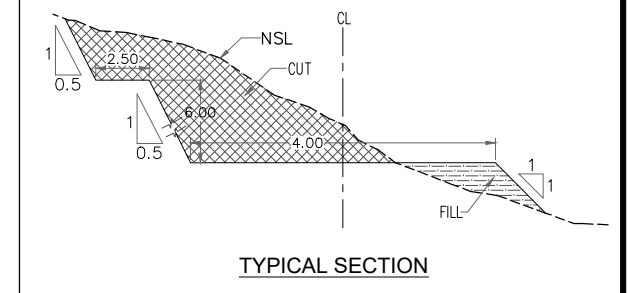


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [Hatched Box]
FILL AREA [Cross-hatched Box]



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED
 FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT, KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCAD CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERM PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

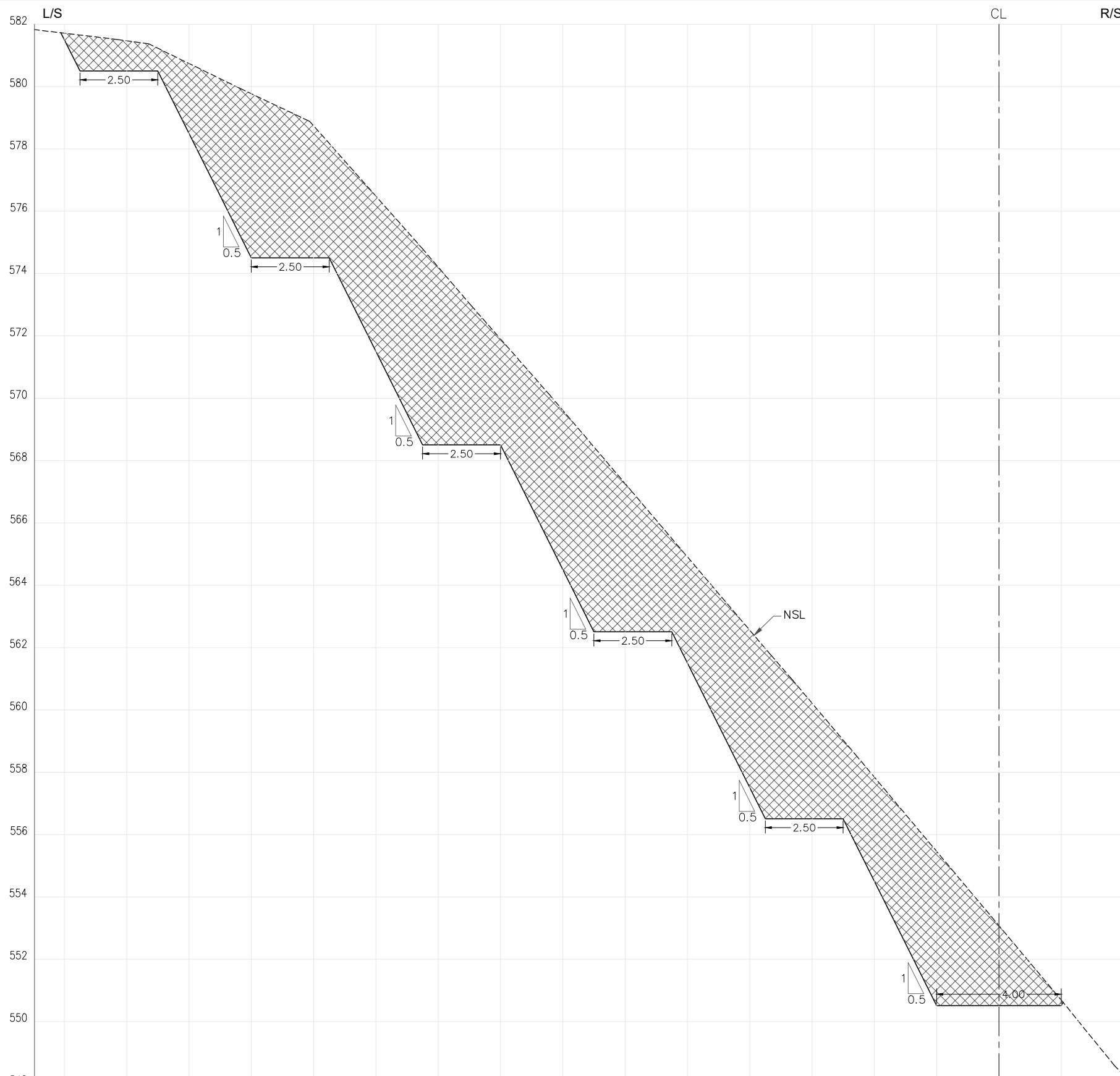
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec, 2021

DRG.No:- GHD-BD-RD-05 SHEET:-14 OF 22 SUB SH.




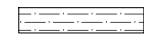
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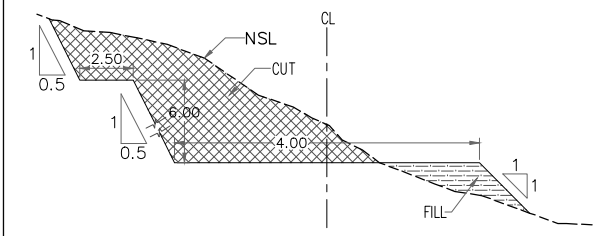


CUT/FILL LEVEL	581.929	581.730	580.506	580.506	574.506	574.506	568.506	568.506	562.506	562.506	556.506	556.506	550.506	550.506	550.506	550.618	548.581
OFFSET	-30.112	-29.500	-27.000	-24.000	-21.500	-18.500	-16.000	-13.000	-10.500	-7.500	-5.000	-2.000	0.000	2.000	2.056	3.711	
NSL	581.929	581.517	581.374	579.962	578.886	574.788	572.993	570.078	567.015	561.790	560.953	558.516	554.809	553.073	550.686	548.581	
OFFSET	-30.956	-28.310	-27.290	-24.397	-22.124	-18.494	-16.957	-14.396	-11.790	-7.348	-6.623	-4.566	-1.456	0.000	2.000	3.711	

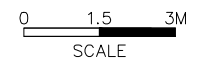
RD=1+950.000

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA 
FILL AREA 






TYPICAL SECTION



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED
 FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
 **REHMAN HABIB CONSULTANTS (PVT) LTD.**
 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**
 **PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

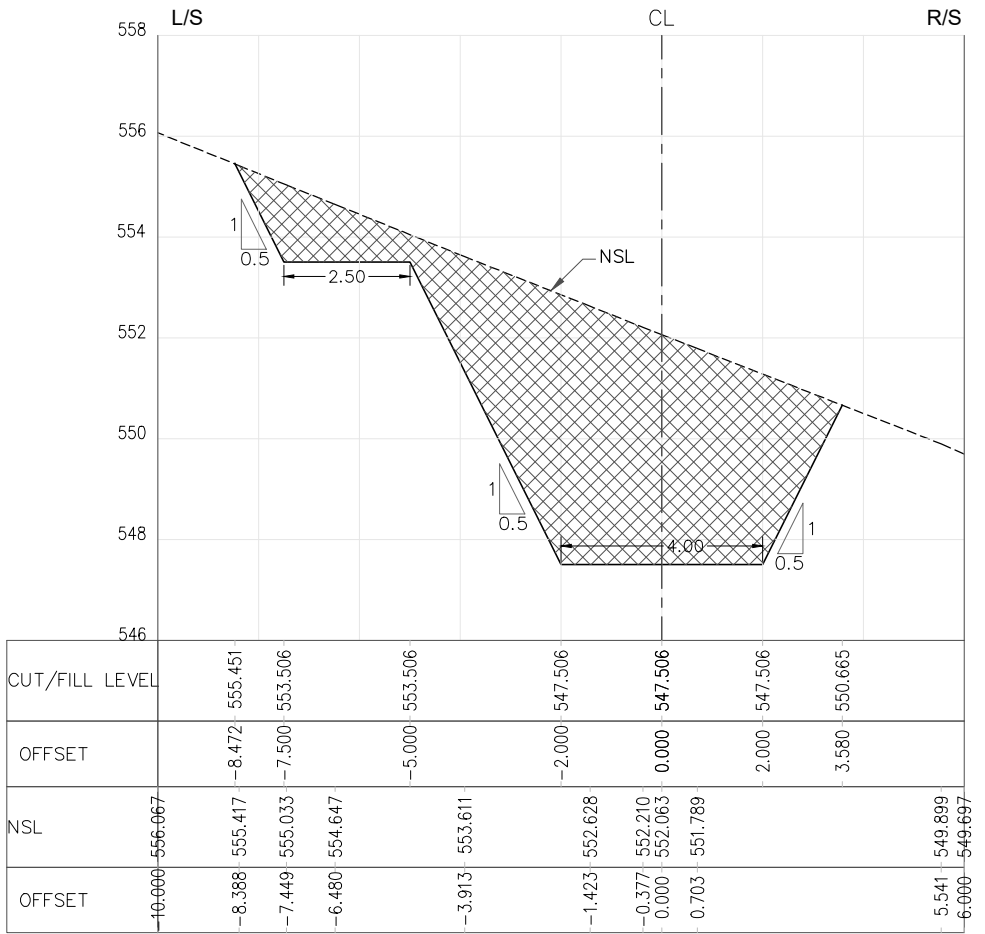
TITLE:
GHOZHEZAI DAM
T.S.D TANK
DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	10 Dec. 2021

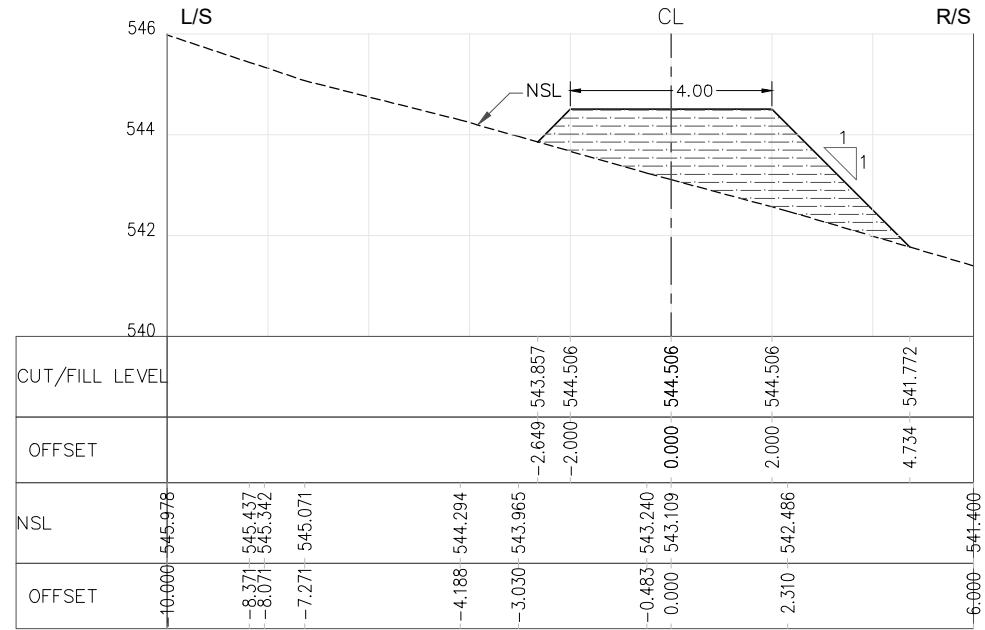
DRG.No:- GHD-BD-RD-05 SHEET:-15 OF 22 SUB SH.



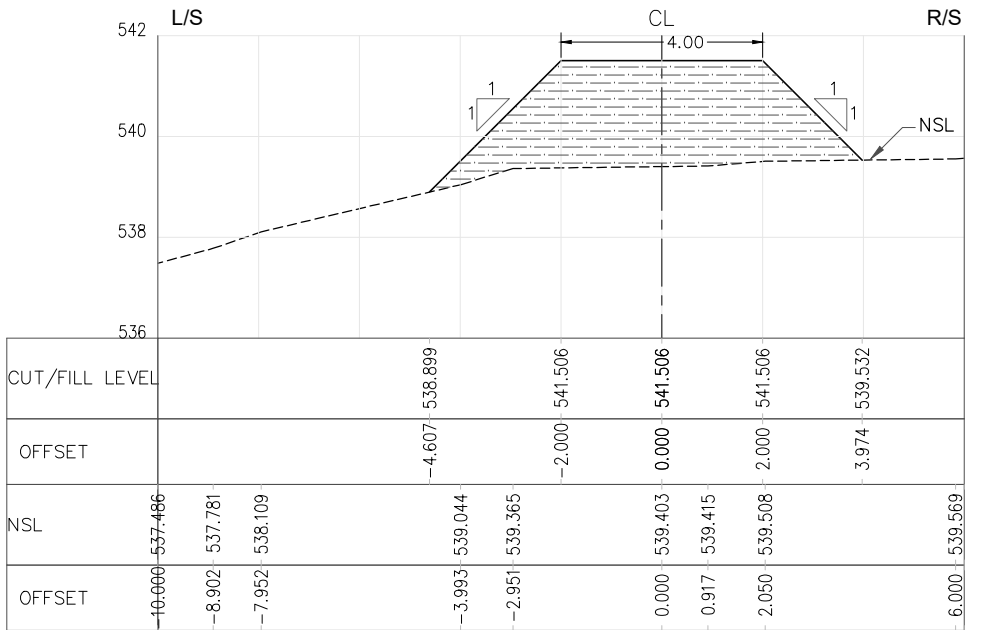
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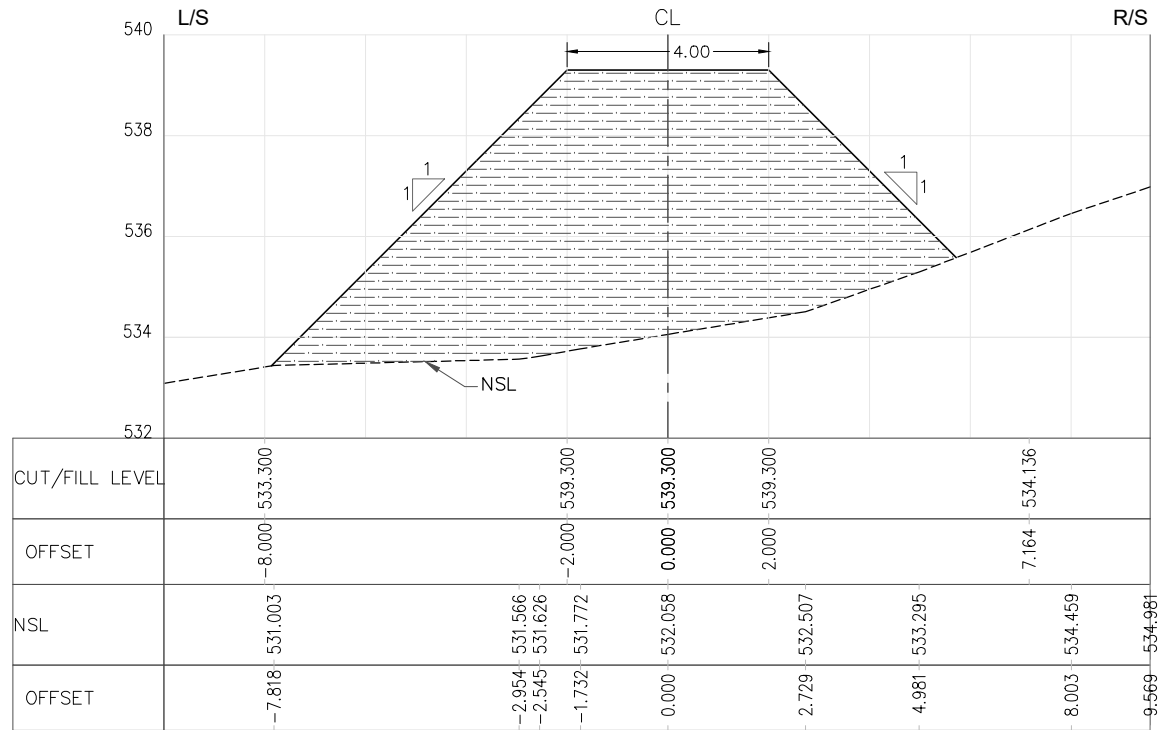
RD=2+000.000



RD=2+050.000



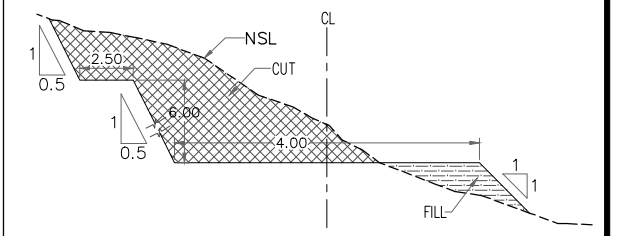
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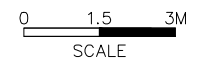
RD=2+150.000

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA [diagonal hatching]
FILL AREA [horizontal hatching]



TYPICAL SECTION



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT, KPK.

CONSULTANTS: A J.V OF
RHC REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

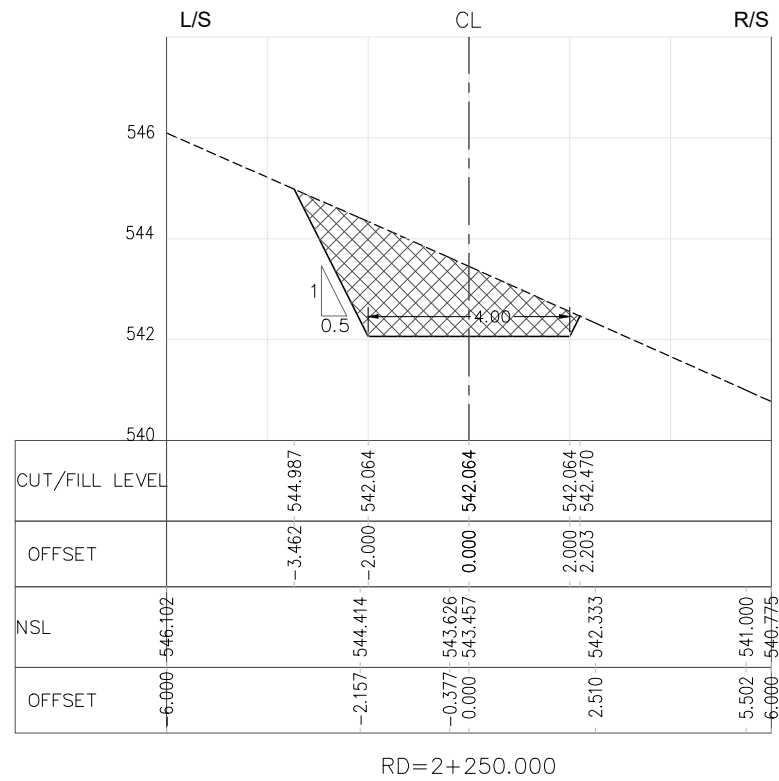
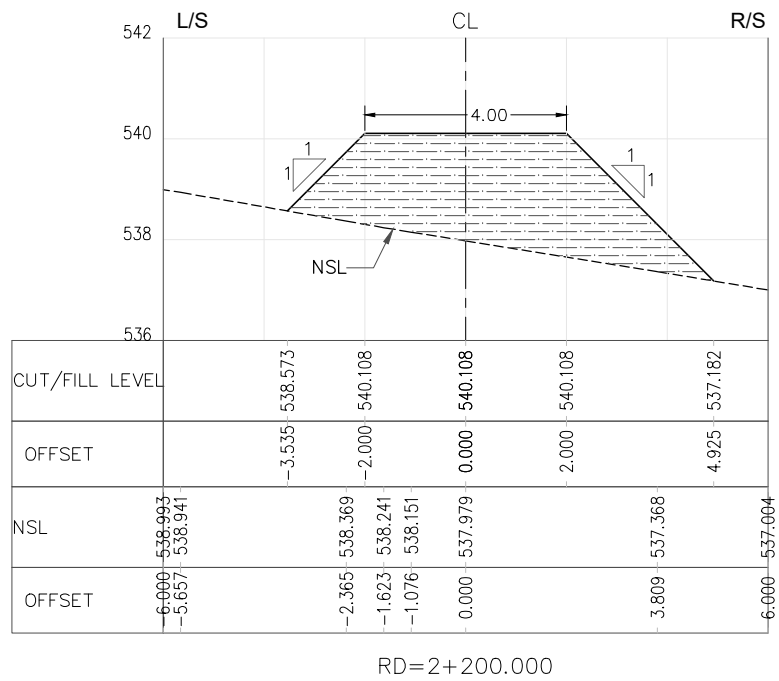
TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	09.08.2021

DRG.No:- GHD-BD-RD-05 SHEET:-16 OF 22 SUB SH.



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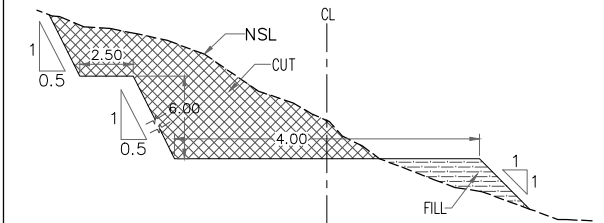
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

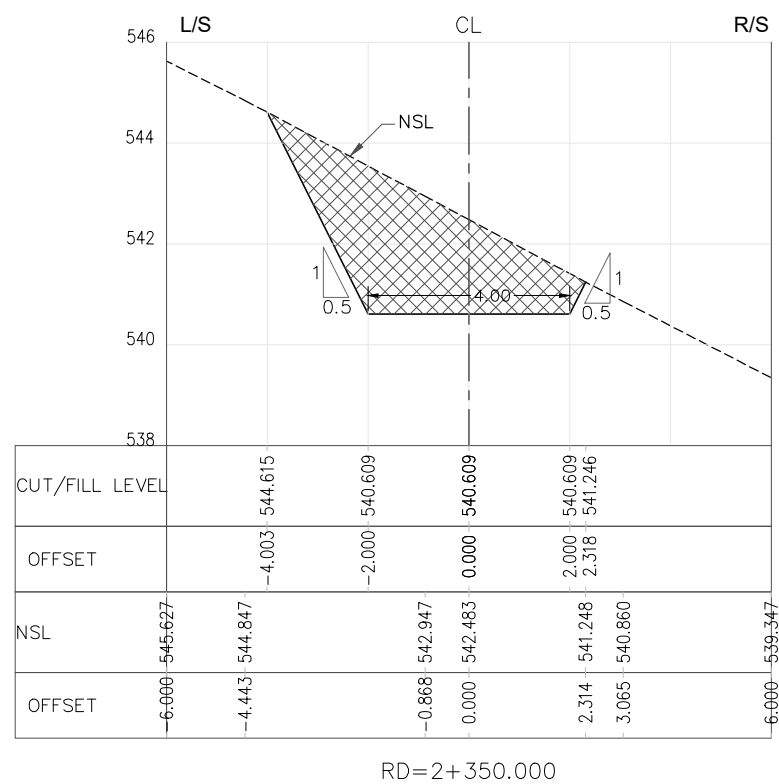
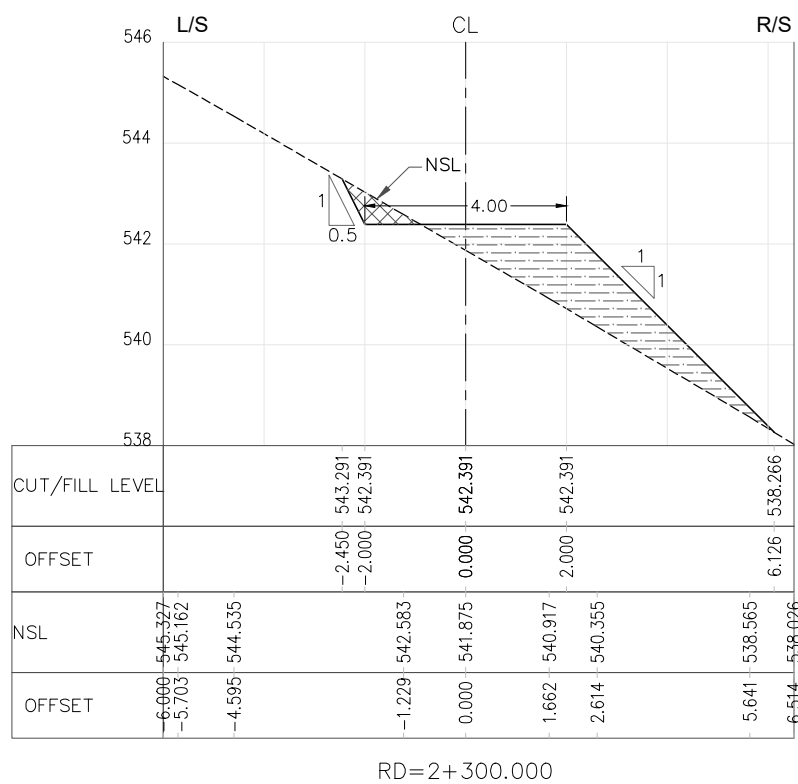
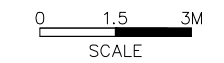
LEGEND:-

CUT AREA

FILL AREA



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF
REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

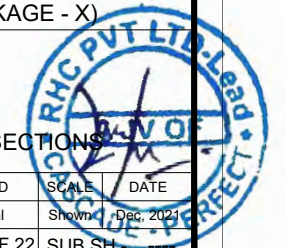
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

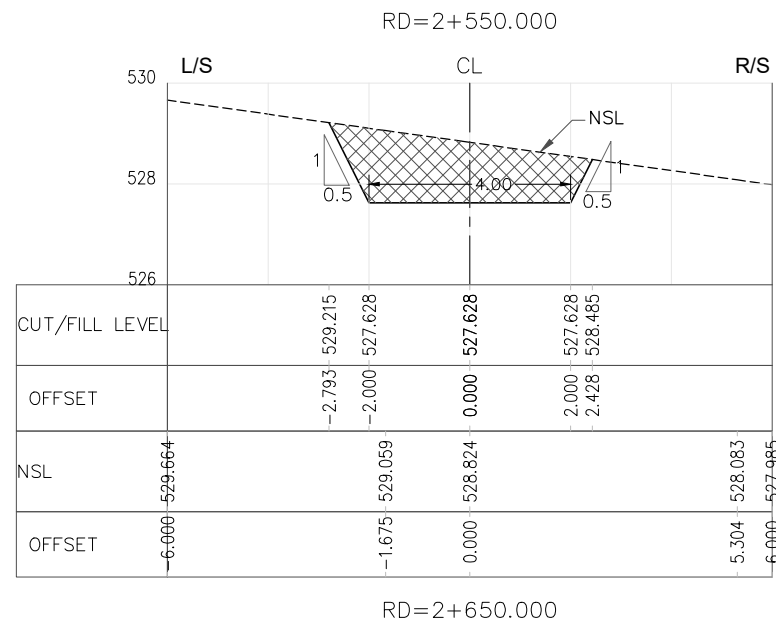
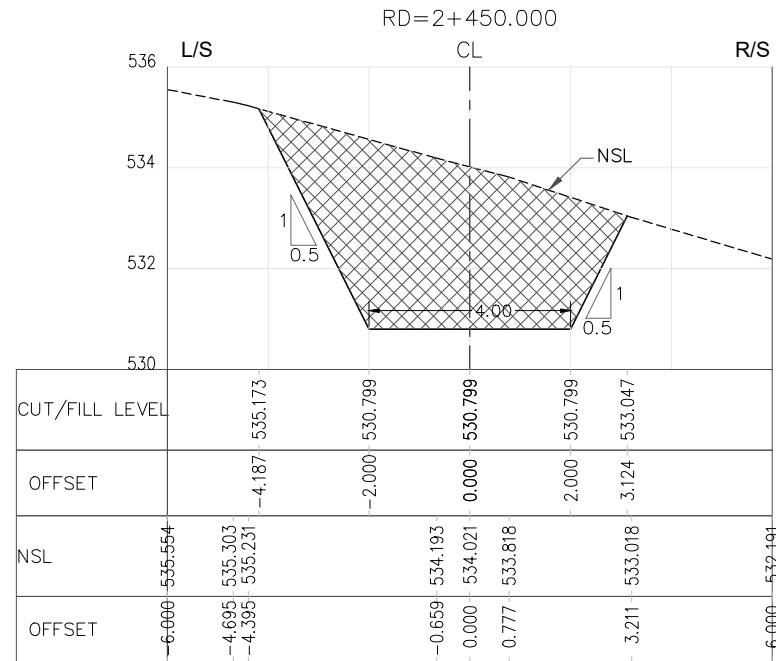
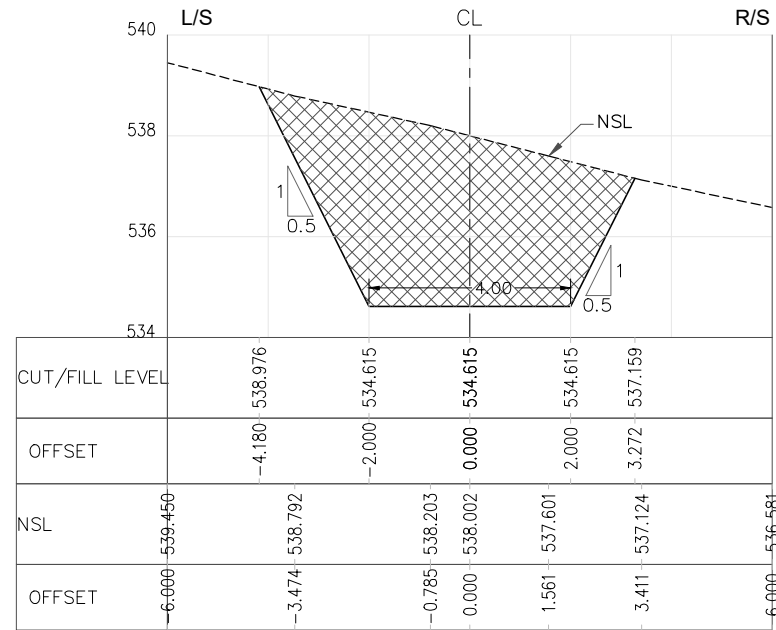
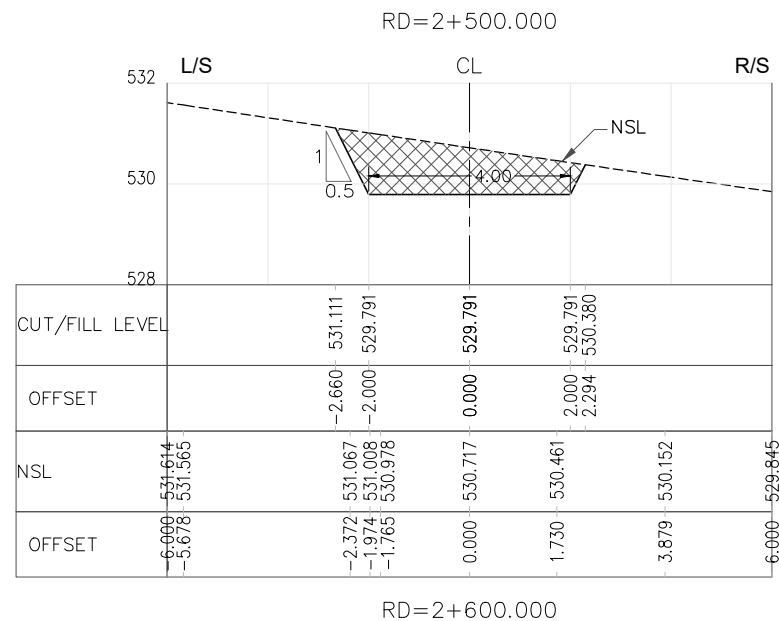
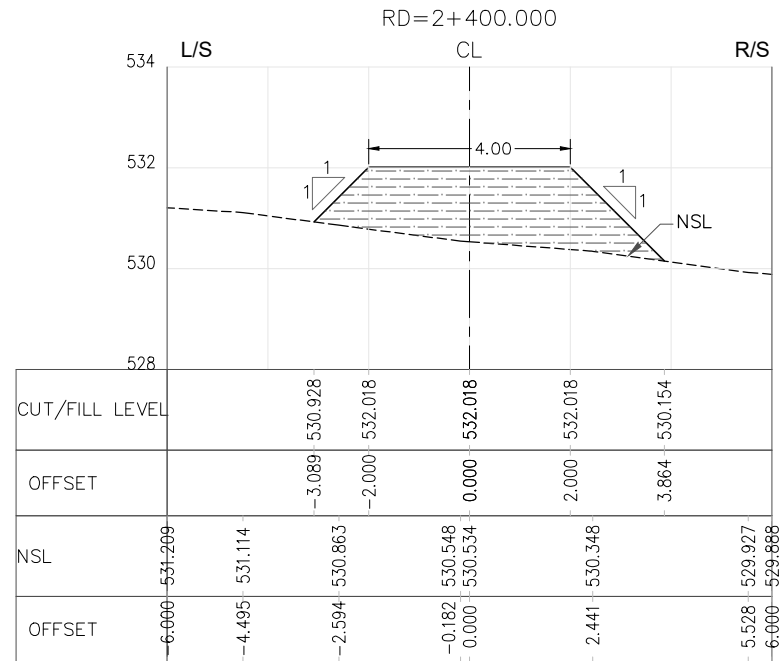
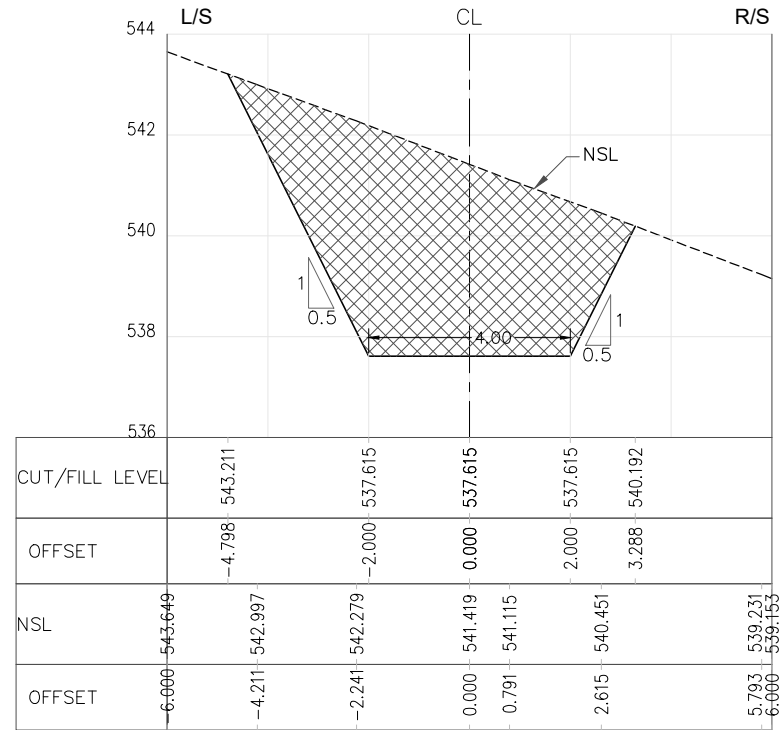
**GHOZHEZAI DAM
T.S.D TANK**

TITLE: **DAM ACCESS ROAD CROSS SECTIONS**

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	08 Dec 2021
DRG.No:- GHD-BD-RD-05			SHEET:-17 OF 22		SUB SH.

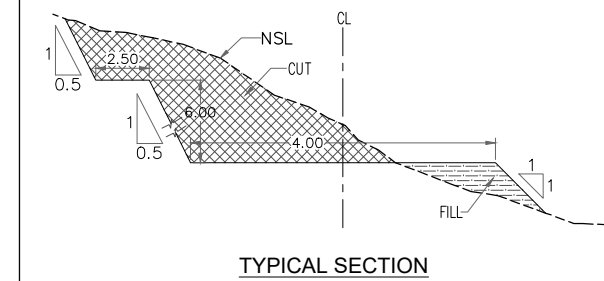


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA
FILL AREA



REFERENCE DRAWINGS :-
GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED
 FOR BIDDING ONLY

CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

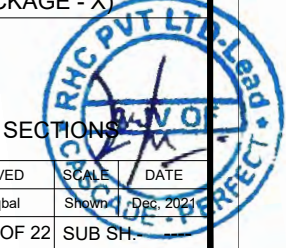
CONSULTANTS:
A J.V OF
 REHMAN HABIB CONSULTANTS (PVT) LTD.
 CASCADE GROUP OF ENGINEERING & CONSULTANTS
 PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

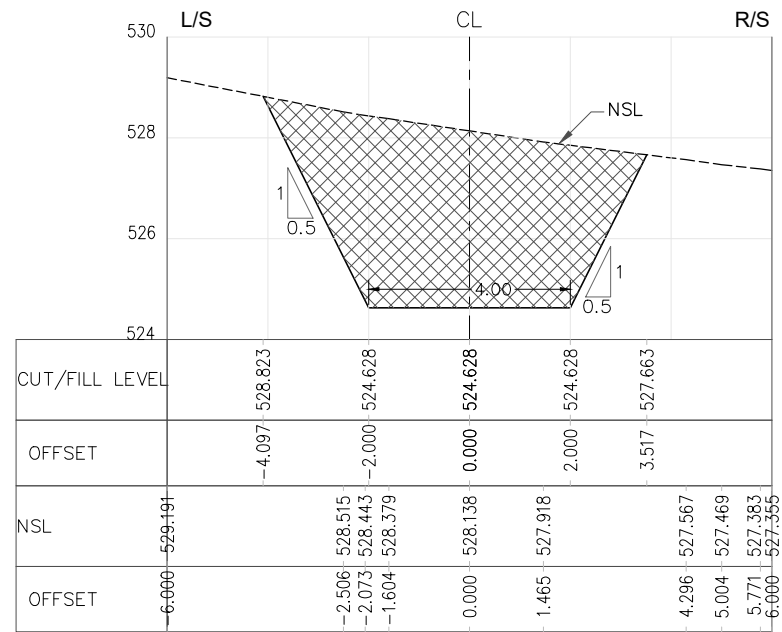
**GHOZHEZAI DAM
T.S.D TANK**

TITLE: DAM ACCESS ROAD CROSS SECTIONS

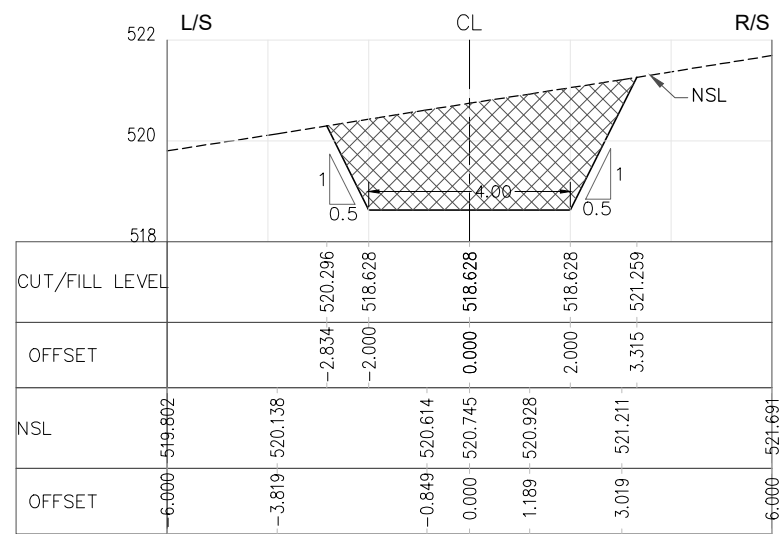
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	02 Dec. 2021
DRG.No:- GHD-BD-RD-05			SHEET:- 18 OF 22		SUB SH.



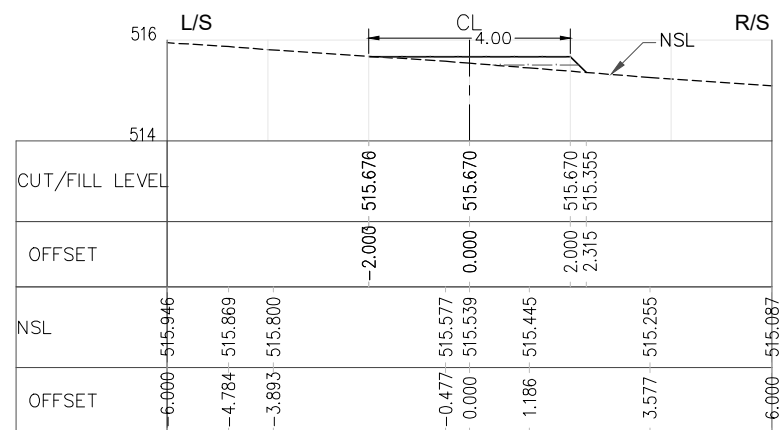
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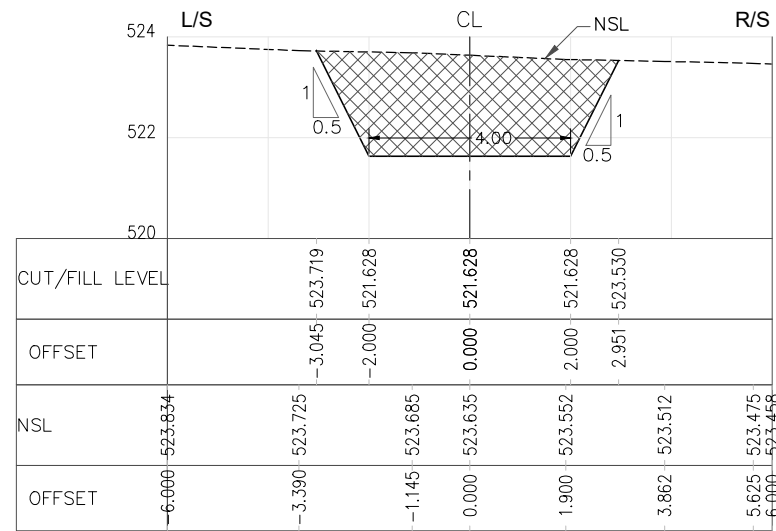
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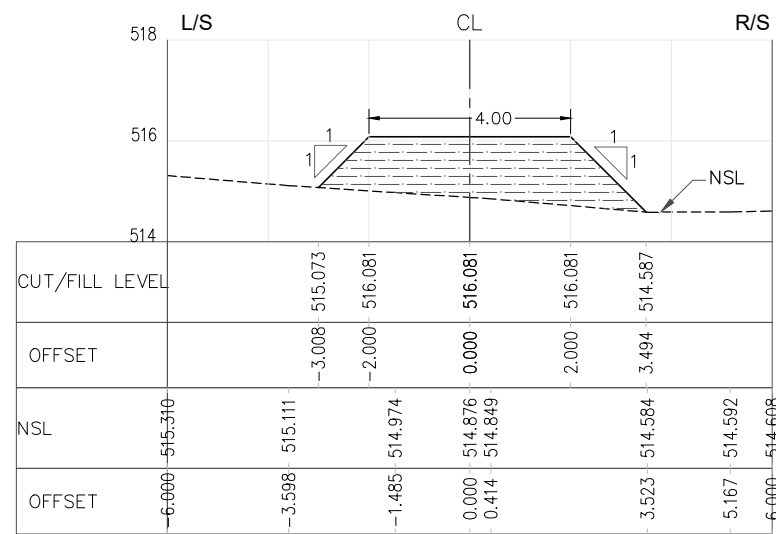
RD=2+800.000



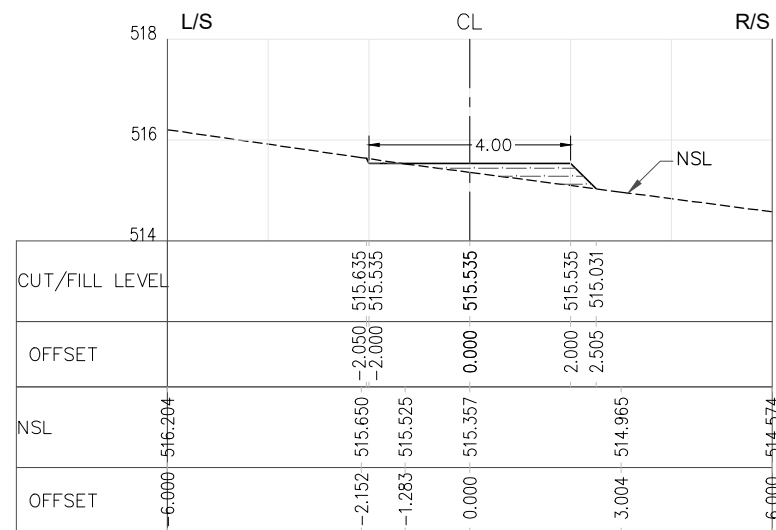
RD=2+900.000



RD=2+750.000



RD=2+850.000

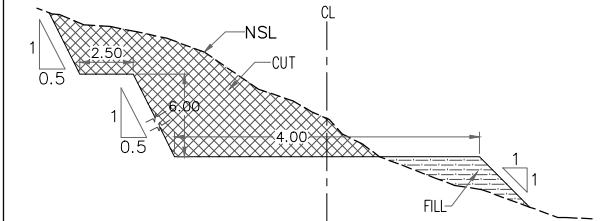


RD=2+950.000

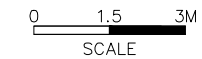
NOTES:-

- ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT, KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING &
MANAGEMENT CONSULTANTS

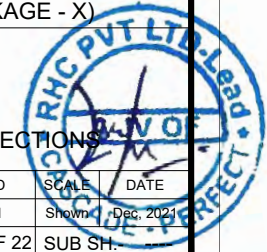
PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

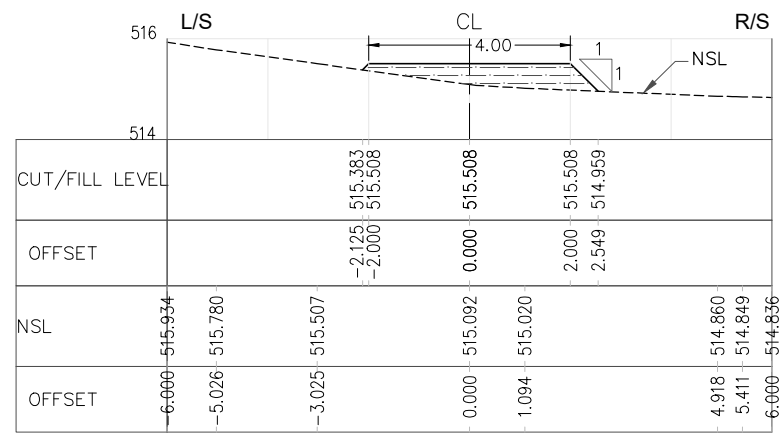
TITLE:

GHOZHEZAI DAM
T.S.D TANK
DAM ACCESS ROAD CROSS SECTIONS

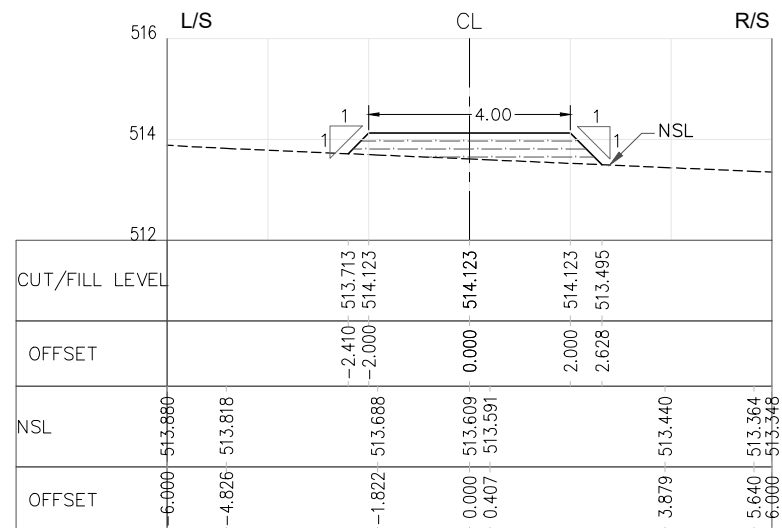
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021
DRG.No:- GHD-BD-RD-05			SHEET:-19 OF 22		SUB SH.



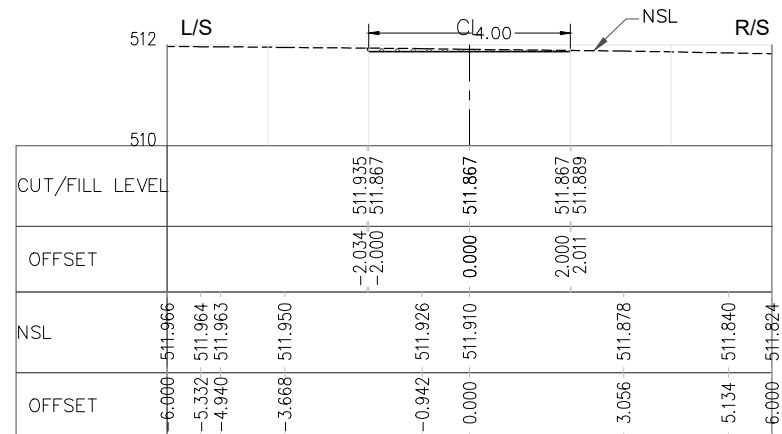
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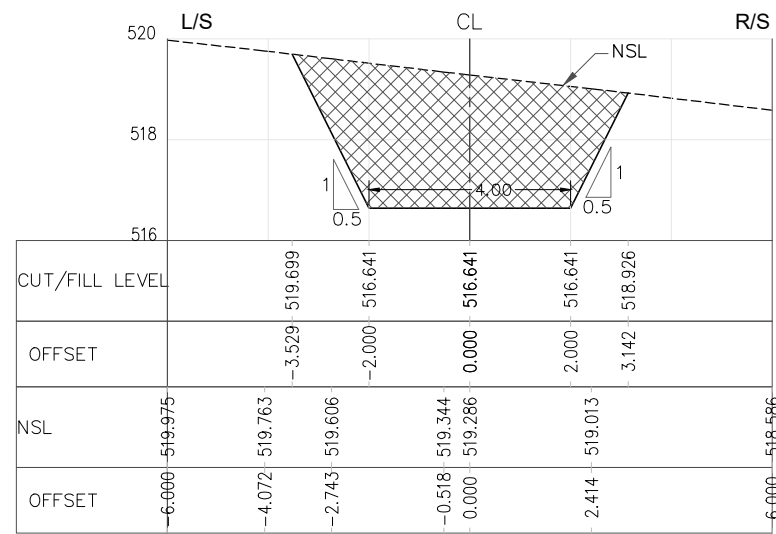
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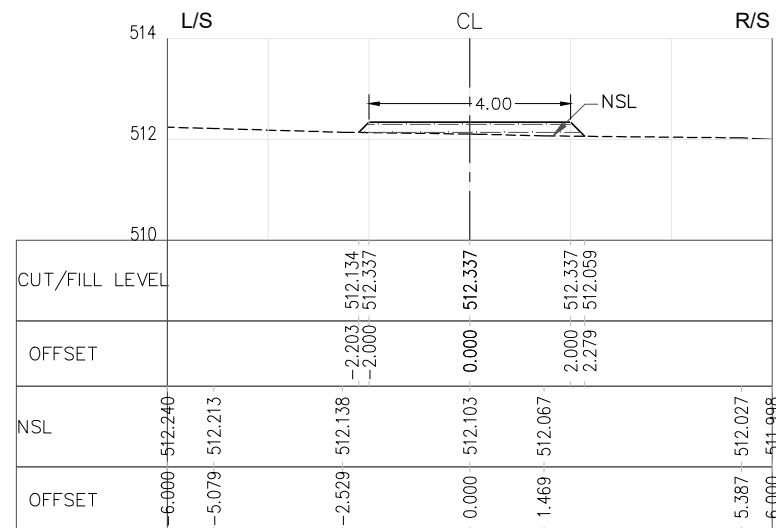
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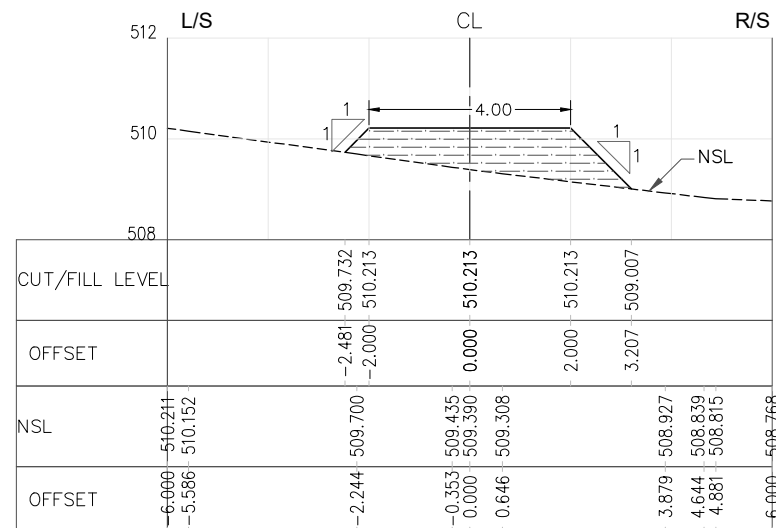
RD=3+200.000



RD=3+050.000



RD=3+150.000

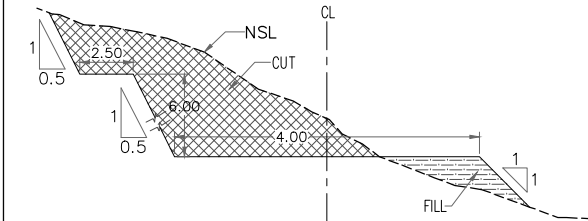


RD=3+250.000

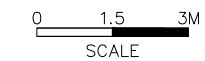
NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP OF ENGINEERING & CONSULTANTS

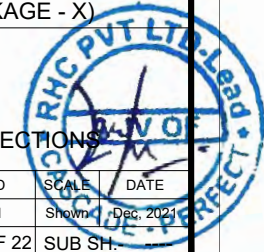
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

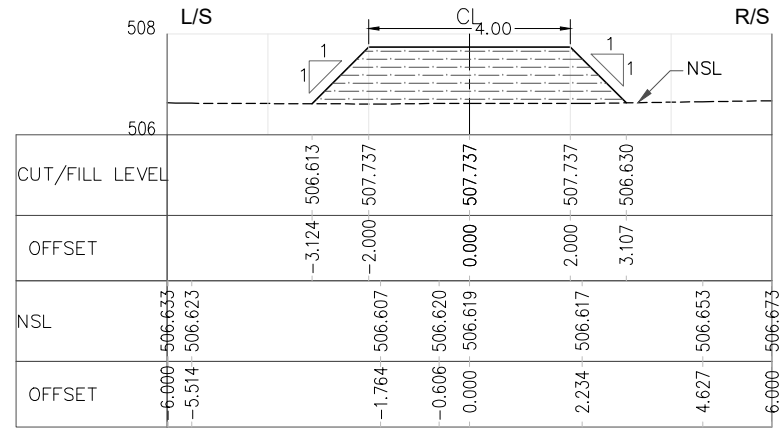
CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM
T.S.D TANK
TITLE: DAM ACCESS ROAD CROSS SECTIONS

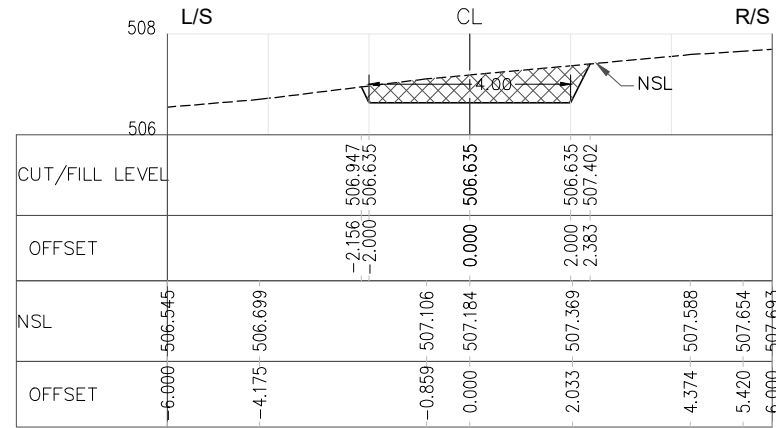
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec. 2021
DRG.No:- GHD-BD-RD-05			SHEET:-20 OF 22		SUB SH.



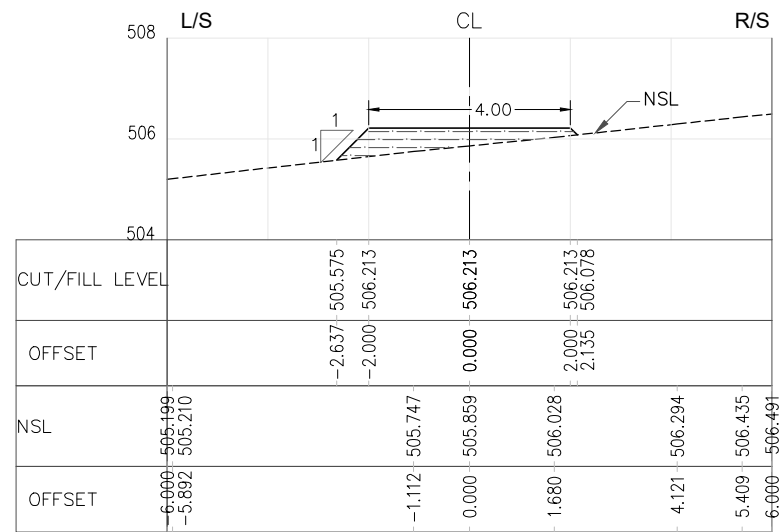
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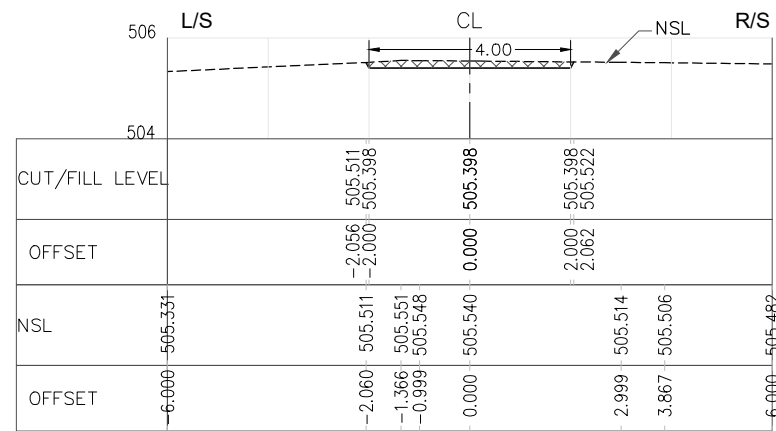
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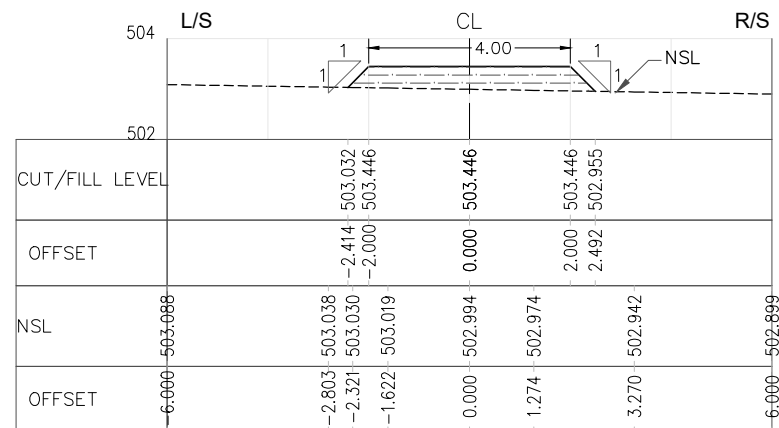
RD=3+350.000



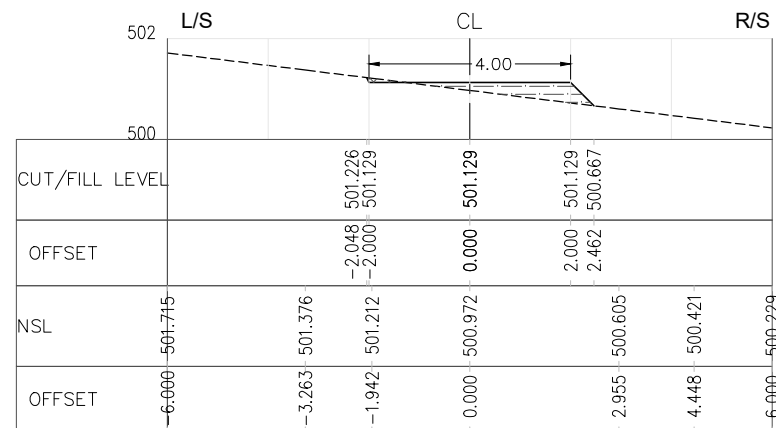
RD=3+400.000



RD=3+450.000



RD=3+500.000



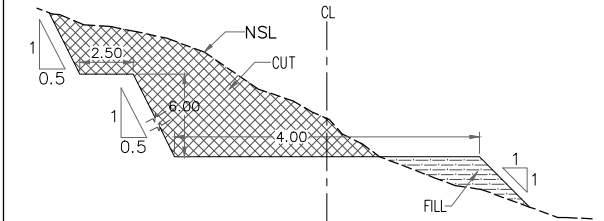
RD=3+550.000

NOTES:-

1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-

CUT AREA
 FILL AREA



TYPICAL SECTION

REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

DRAWING IS RELEASED

FOR BIDDING ONLY

CLIENT:

PSU SMALL DAM SECTION MERGED AREA IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

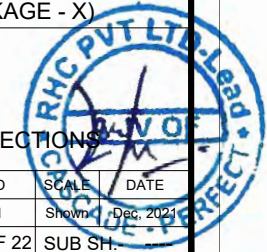
CASCADE GROUP OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

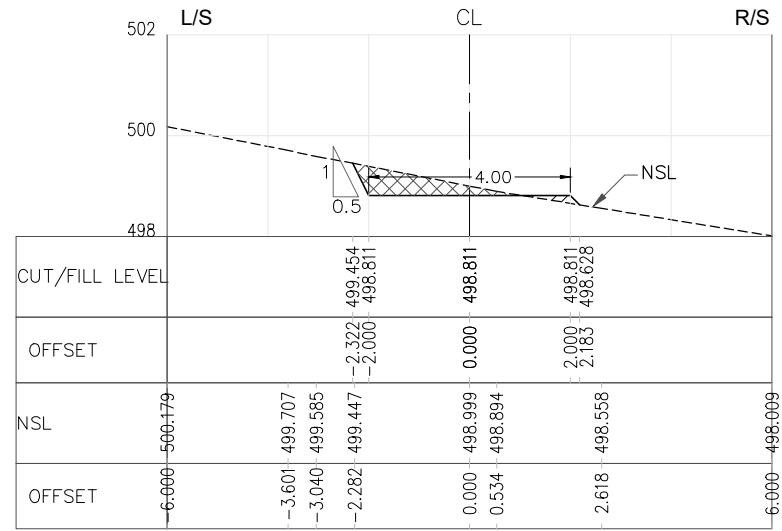
PROJECT: CONSULTANCY SERVICES FOR FEASIBILITY STUDY, DETAIL DESIGN & PREPARATION OF PC-1 FOR 5 SMALL DAMS IN FATA (PACKAGE - X)

GHOZHEZAI DAM T.S.D TANK
 TITLE: DAM ACCESS ROAD CROSS SECTIONS

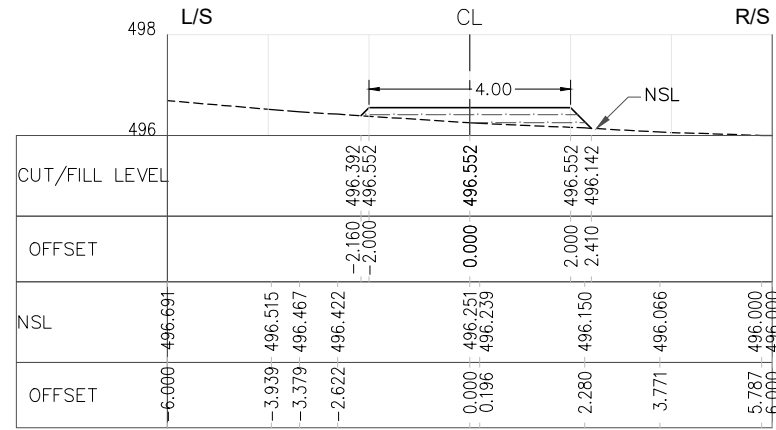
DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021
DRG.No:- GHD-BD-RD-05			SHEET:-21 OF 22		SUB SH.



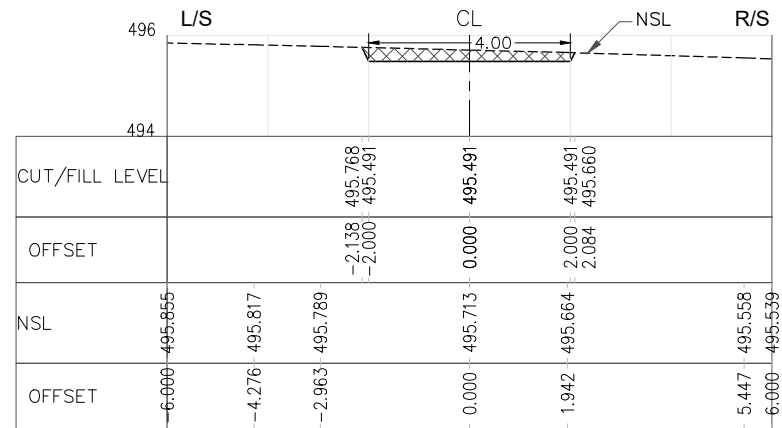
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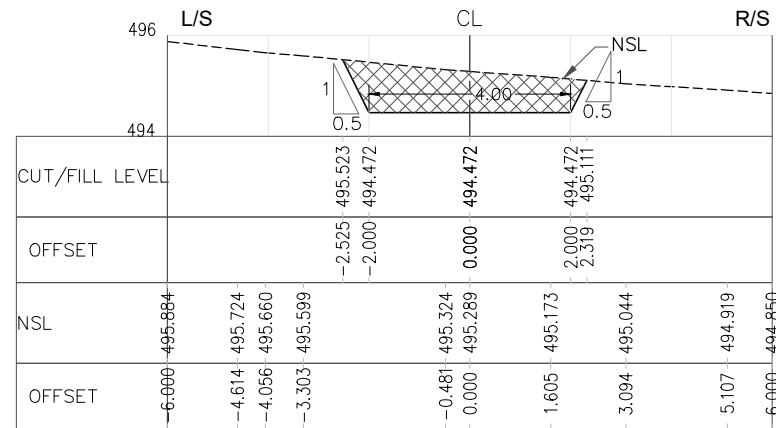
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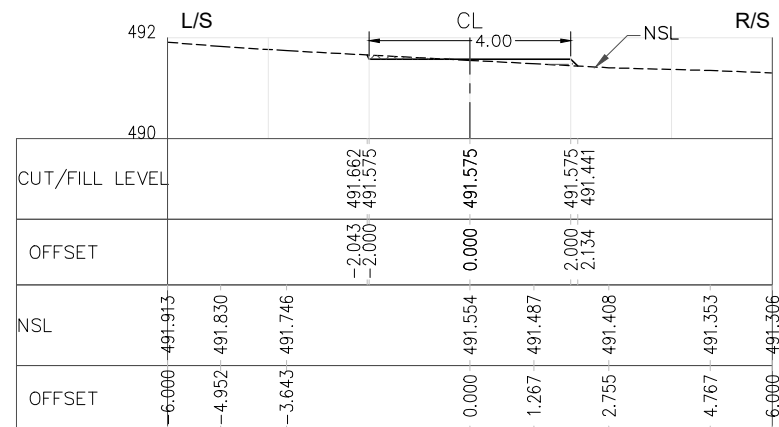
RD=3+650.000



RD=3+700.000



RD=3+750.000

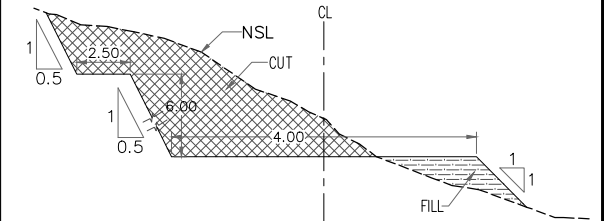


RD=3+800.000

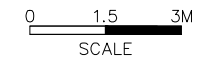
NOTES:-

- ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-01, GHD-BD-RD-02

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CLIENT:

PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS:

A J.V OF

RHC REHMAN HABIB CONSULTANTS (PVT) LTD.

CASCADE GROUP
OF ENGINEERING & CONSULTANTS

PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:

CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

GHOTHEZAI DAM
T.S.D TANK

TITLE: DAM ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	06 Dec 2021

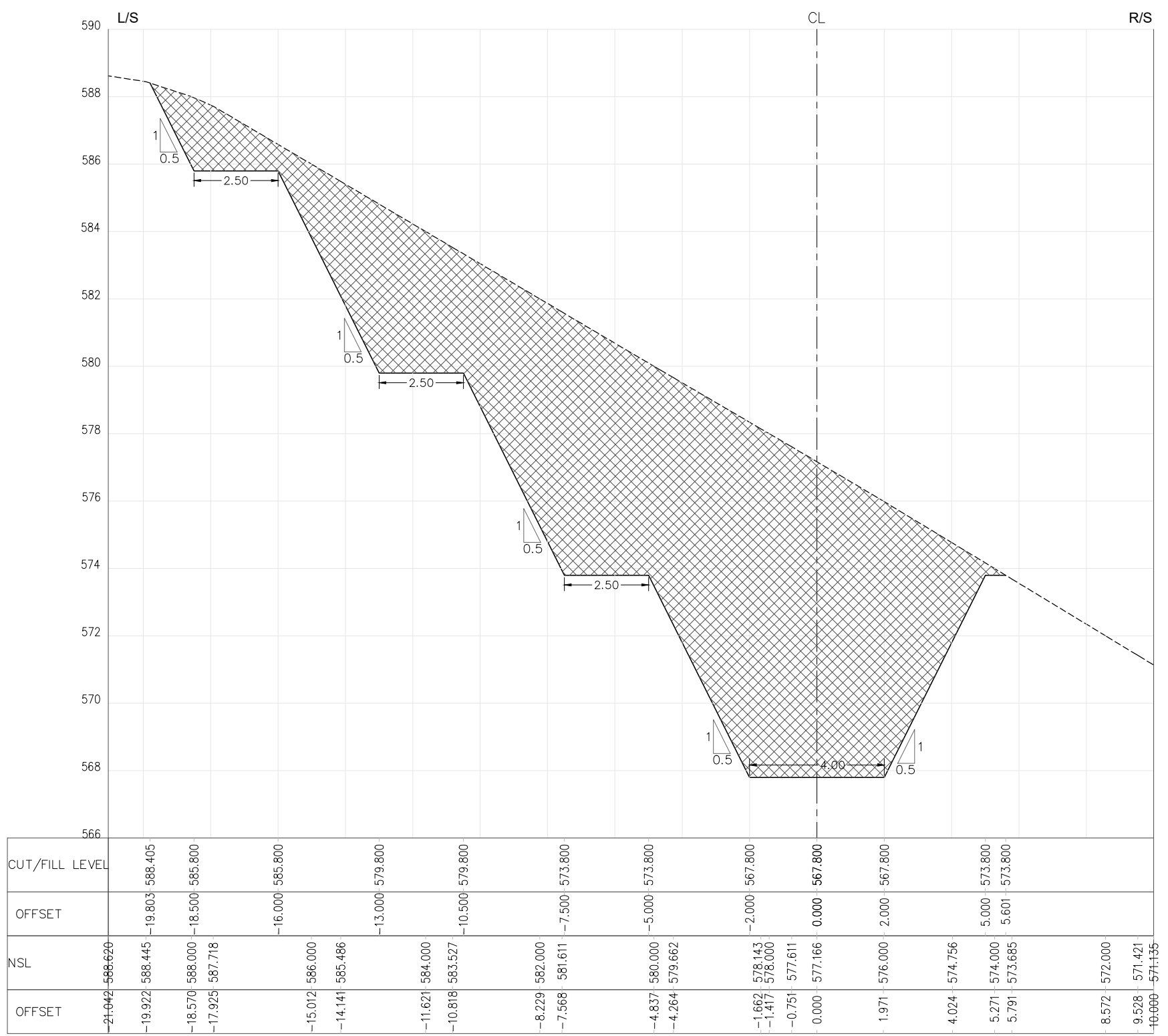
DRG.No:- GHD-BD-RD-05

SHEET:-22 OF 22

SUB SH.


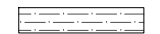


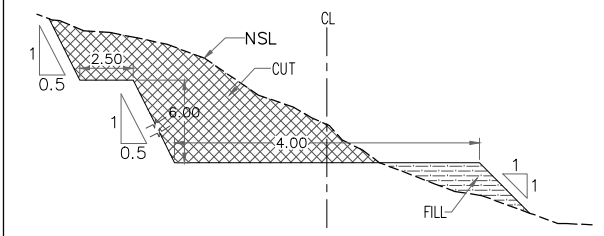
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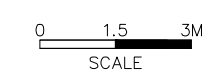
RD=0+000.000

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA 
FILL AREA 



TYPICAL SECTION



REFERENCE DRAWINGS :-

GHD-BD-RD-03, GHD-BD-RD-04

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
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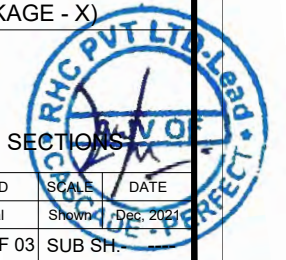
 **PERFECT ENGINEERING &**
MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

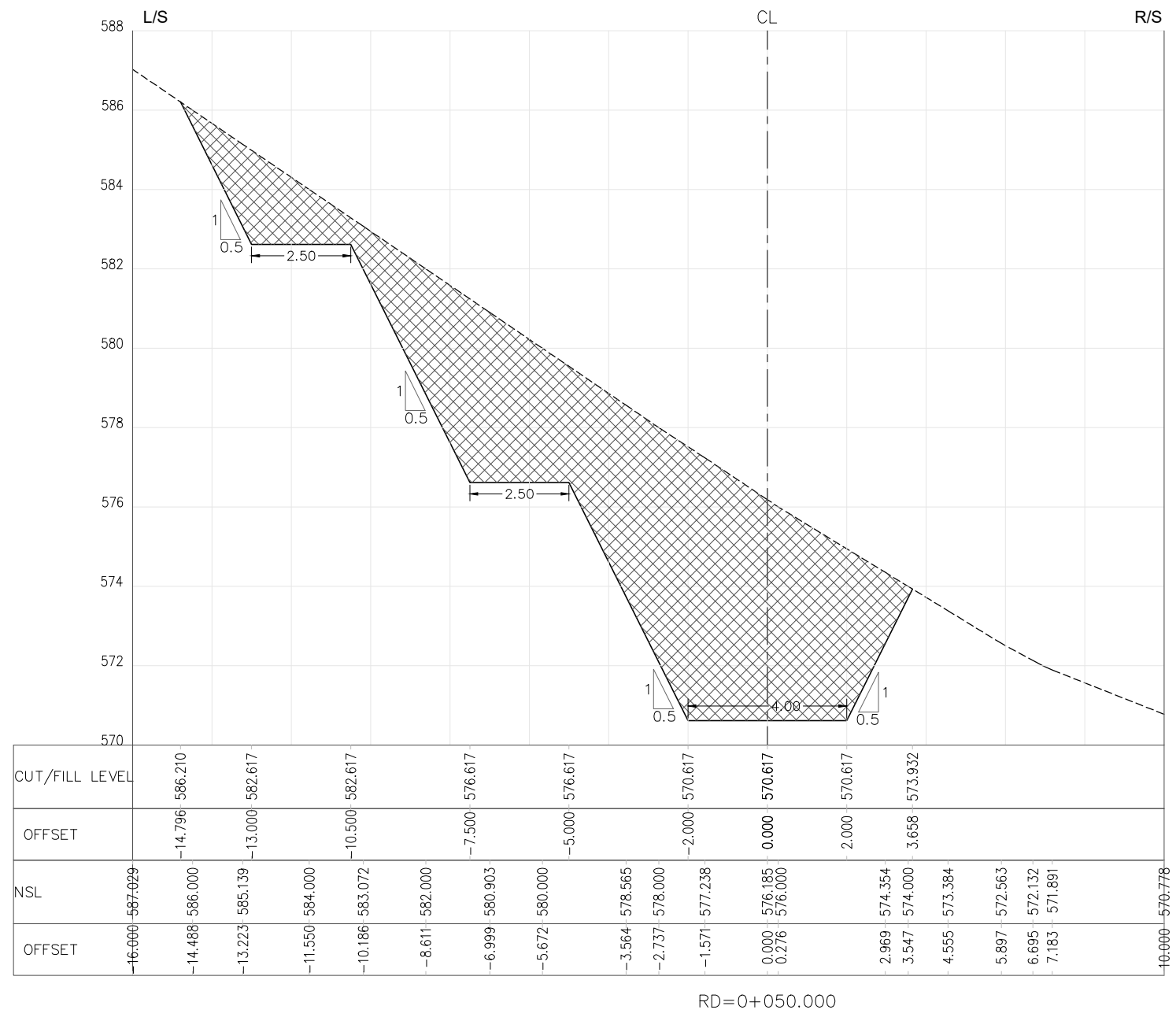
GHOZHEZAI DAM
T.S.D TANK
TITLE: OUTLET ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	04 Dec 2021

DRG.No:- GHD-BD-RD-06 SHEET:-01 OF 03 SUB SH.

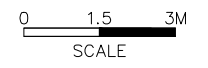
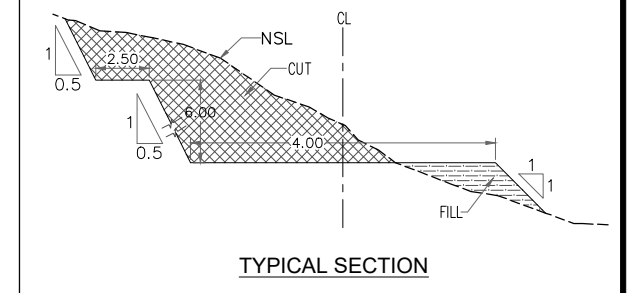


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NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA
FILL AREA



REFERENCE DRAWINGS :-
GHD-BD-RD-03, GHD-BD-RD-04

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
REHMAN HABIB CONSULTANTS (PVT) LTD.
CASCADE GROUP OF ENGINEERING & CONSULTANTS
PERFECT ENGINEERING & MANAGEMENT CONSULTANTS

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

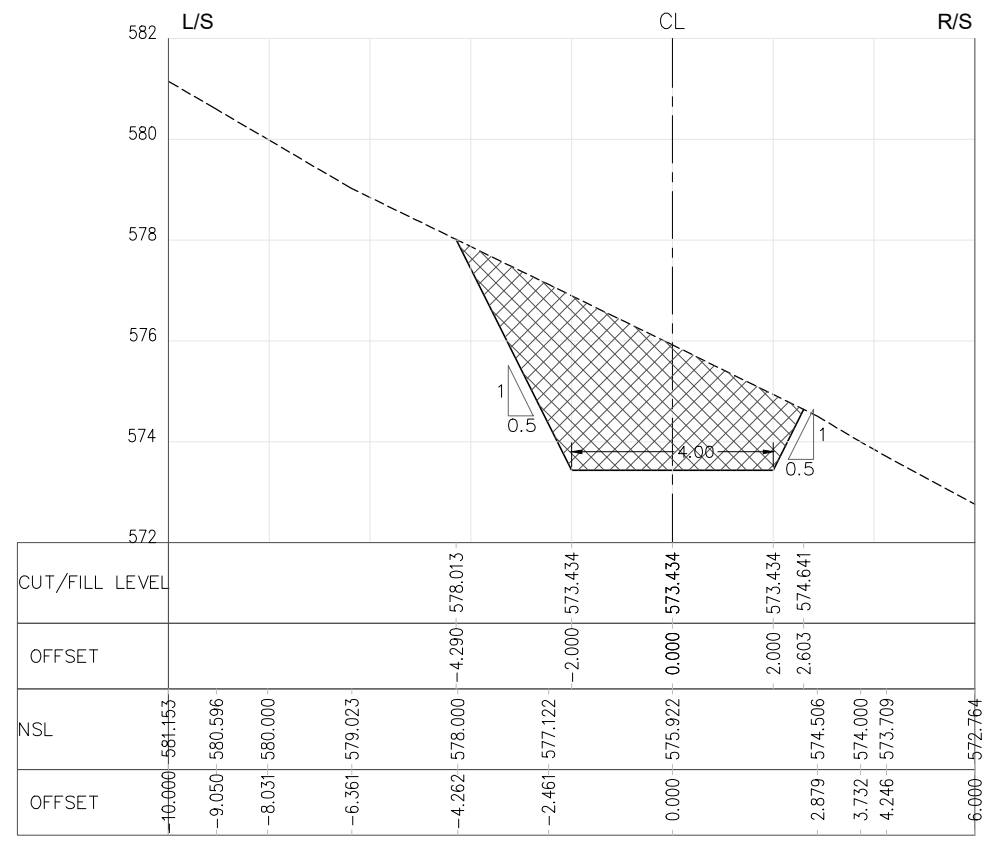
TITLE: OUTLET ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	01 Dec. 2021

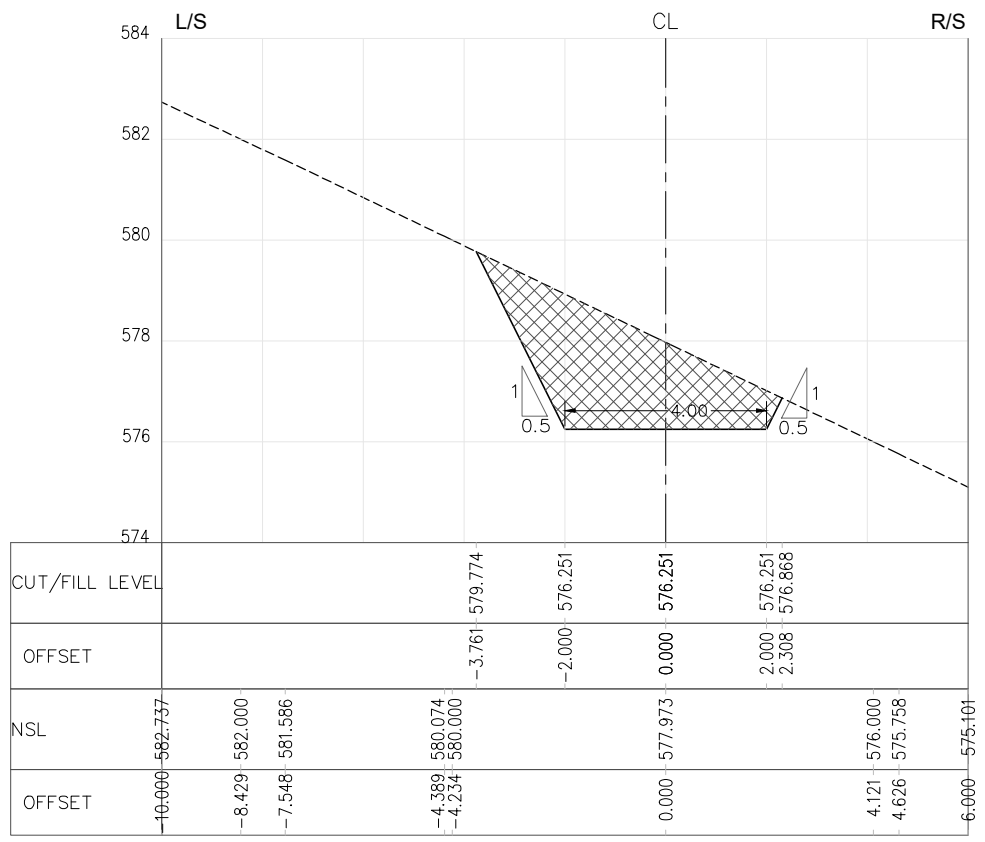
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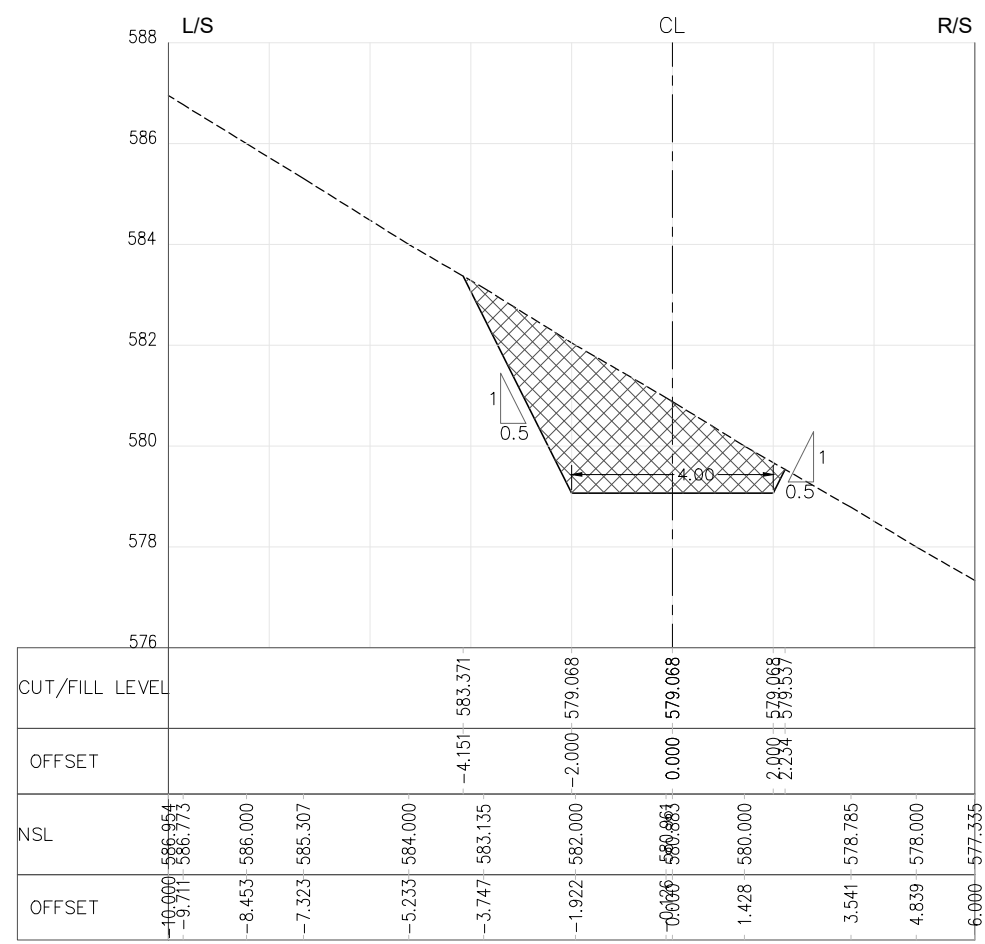
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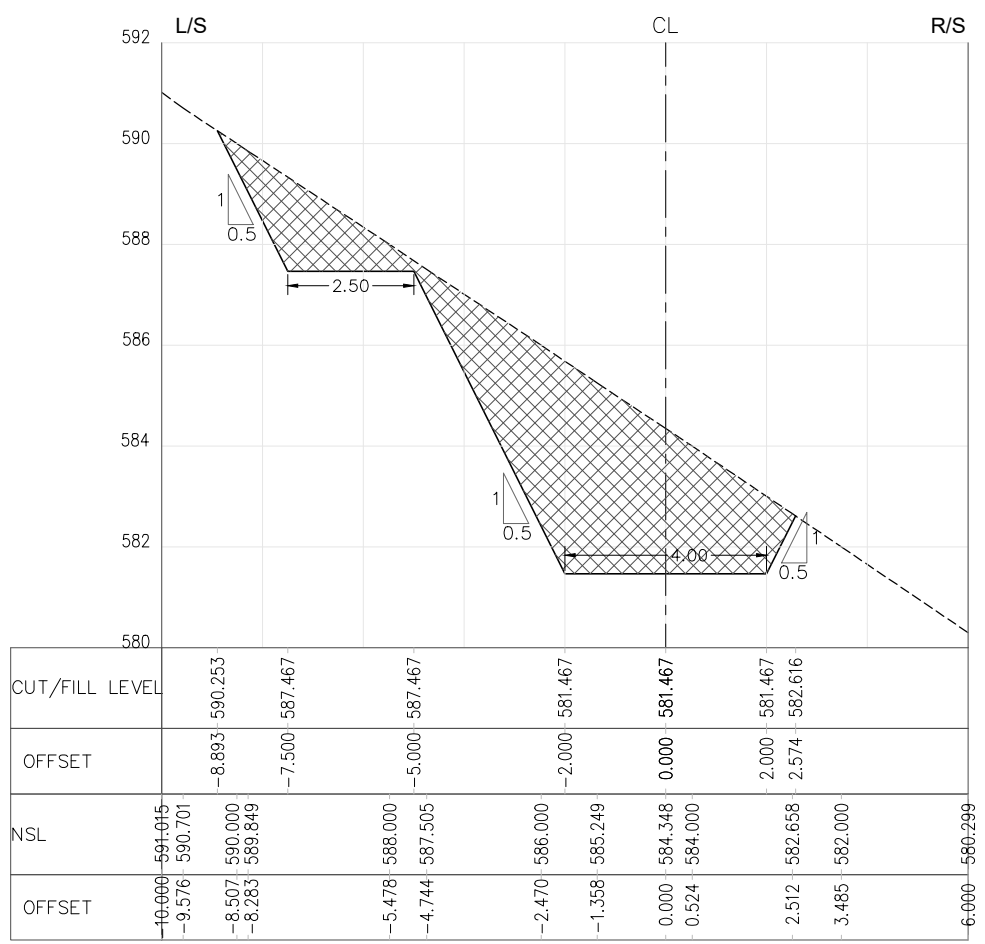
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RD=0+150.000

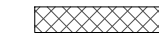
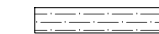


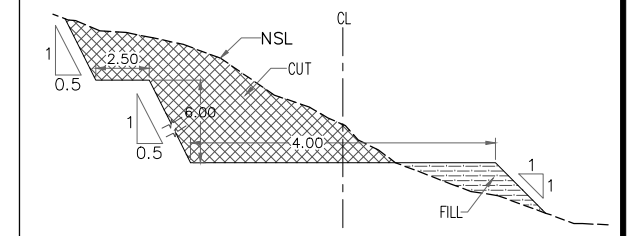
RD=0+200.000



RD=0+242.574

NOTES:-
1. ALL LEVELS AND DIMENSIONS ARE IN METER.

LEGEND:-
CUT AREA 
FILL AREA 



TYPICAL SECTION




0 1.5 3M
SCALE

REFERENCE DRAWINGS :-
GHD-BD-RD-03, GHD-BD-RD-04

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CLIENT:
PSU SMALL DAM SECTION MERGED AREA
IRRIGATION DEPARTMENT. KPK.

CONSULTANTS: A J.V OF
 **REHMAN HABIB CONSULTANTS (PVT) LTD.**
 **CASCADE GROUP OF ENGINEERING & CONSULTANTS**
 **PERFECT ENGINEERING & MANAGEMENT CONSULTANTS**

PROJECT:
CONSULTANCY SERVICES FOR FEASIBILITY STUDY,
DETAIL DESIGN & PREPARATION OF PC-1 FOR
5 SMALL DAMS IN FATA (PACKAGE - X)

**GHOZHEZAI DAM
T.S.D TANK**

TITLE: OUTLET ACCESS ROAD CROSS SECTIONS

DRAWN	DESIGNED	CHECKED	APPROVED	SCALE	DATE
Usman Y.	Arshad A.	Zeeshan S.	Zafar Iqbal	Shown	06 Dec 2021

DRG.No:- GHD-BD-RD-06 SHEET:-03 OF 03 SUB SH.

