

ATTABAD LAKE HYDROPOWER PROJECT

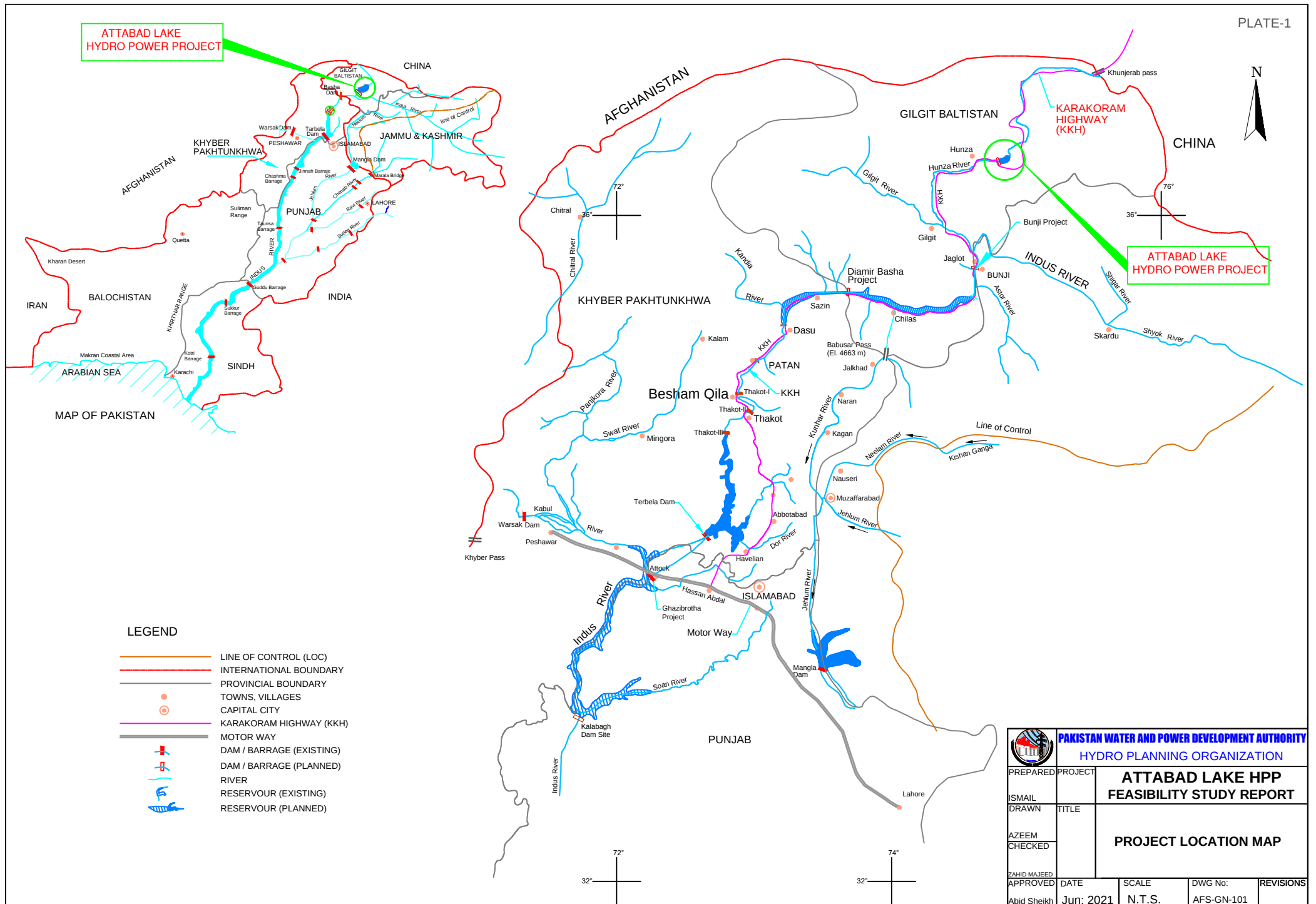
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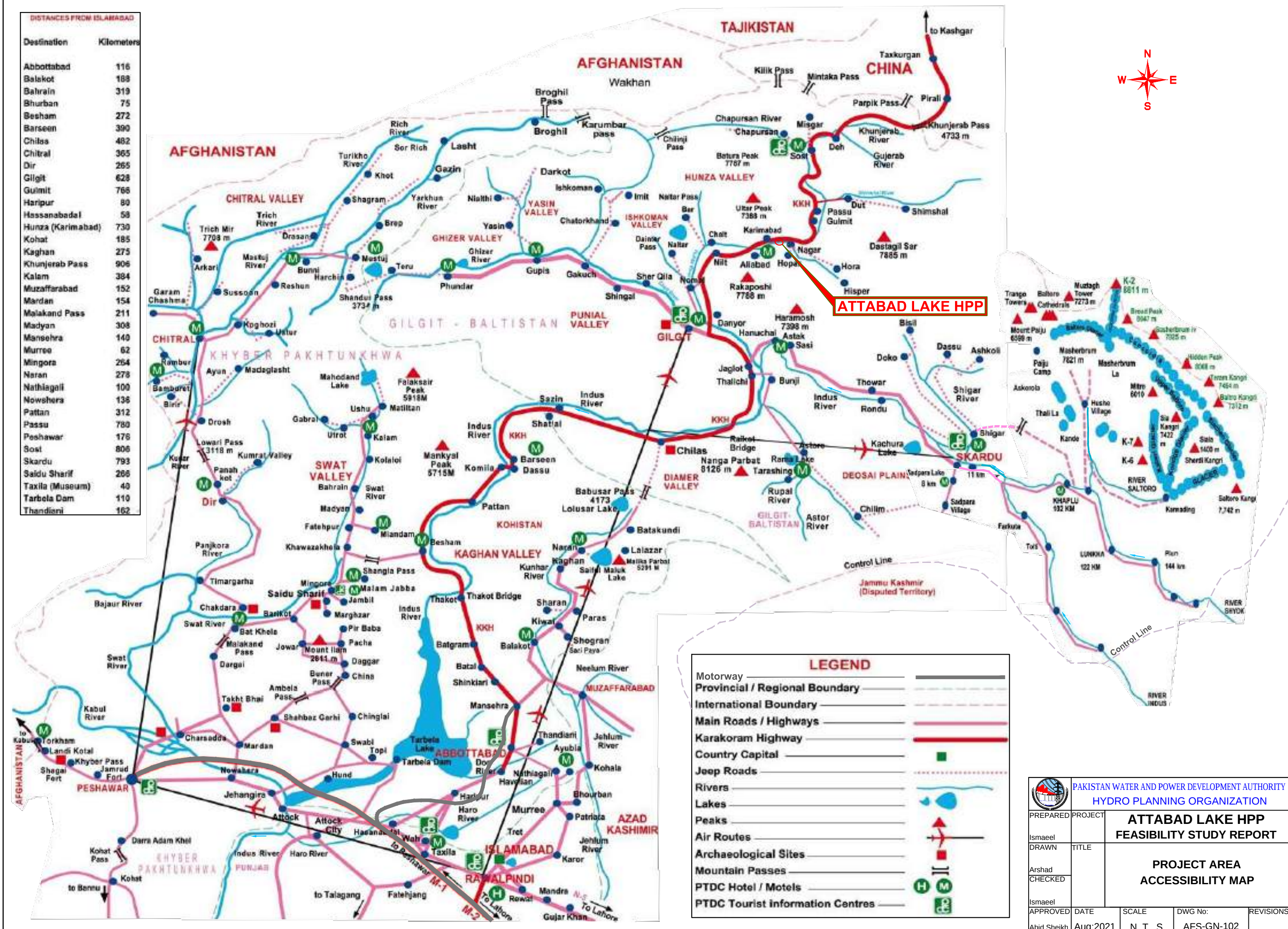
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CATEGORY	SERIAL No.	DRAWING TITLE	DRAWING No.
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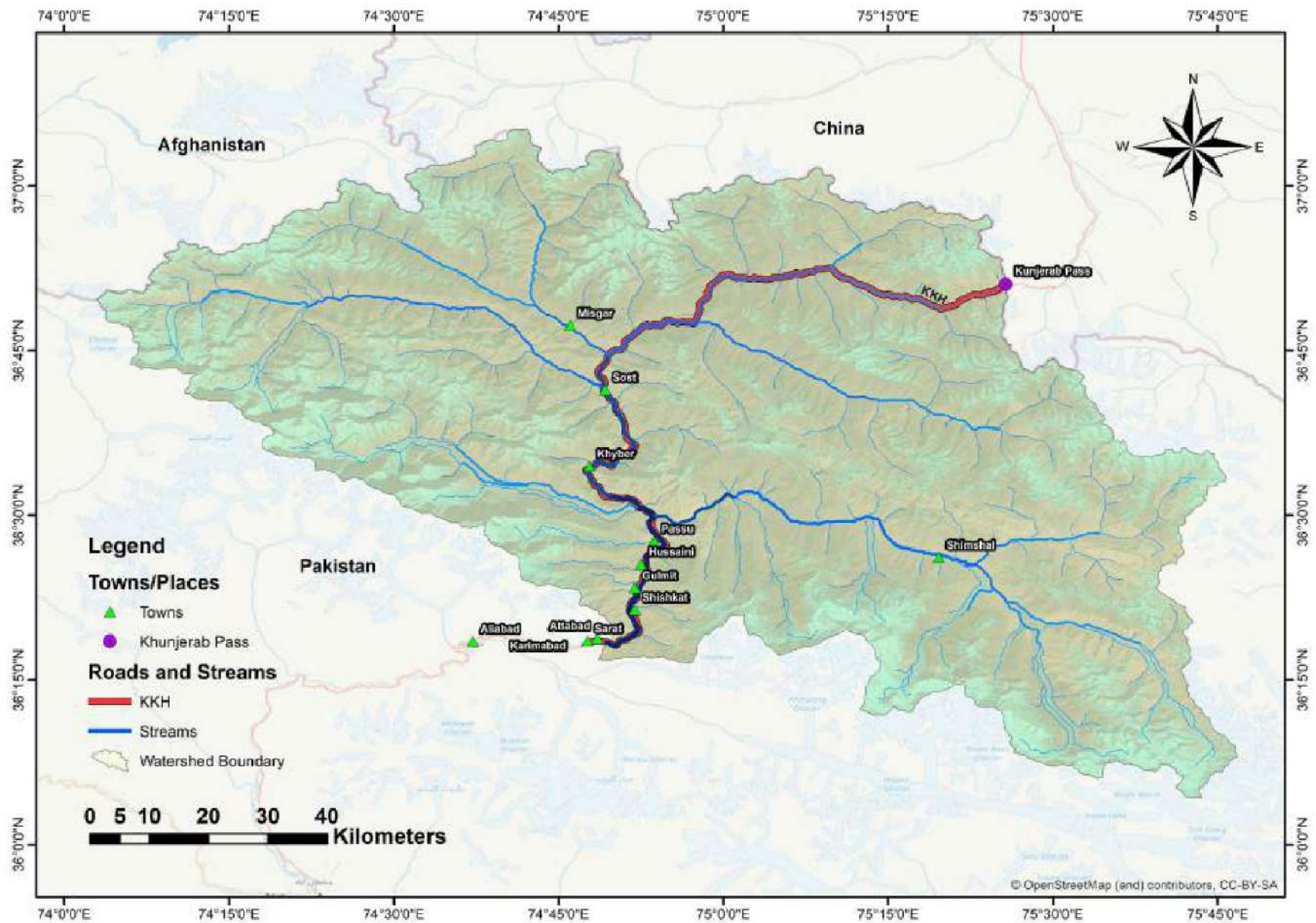
Destination	Kilometers
Abbottabad	116
Balekot	188
Bahrain	319
Bhurban	75
Besham	272
Bardeen	390
Chilas	482
Chitral	365
Dir	265
Gilgit	628
Gulmit	766
Haripur	89
Hassanabad	58
Hunza (Karimabad)	730
Kohat	185
Kaghan	275
Khunjerab Pass	906
Kalam	384
Muzaffarabad	152
Mardan	154
Malakand Pass	211
Madyan	308
Mansohra	140
Murree	62
Mingora	264
Naran	278
Nathigali	100
Nowshera	136
Pattan	312
Passu	780
Peshawar	176
Sost	806
Skardu	793
Saidu Sharif	266
Taxila (Museum)	40
Tarbela Dam	110
Thandiani	162



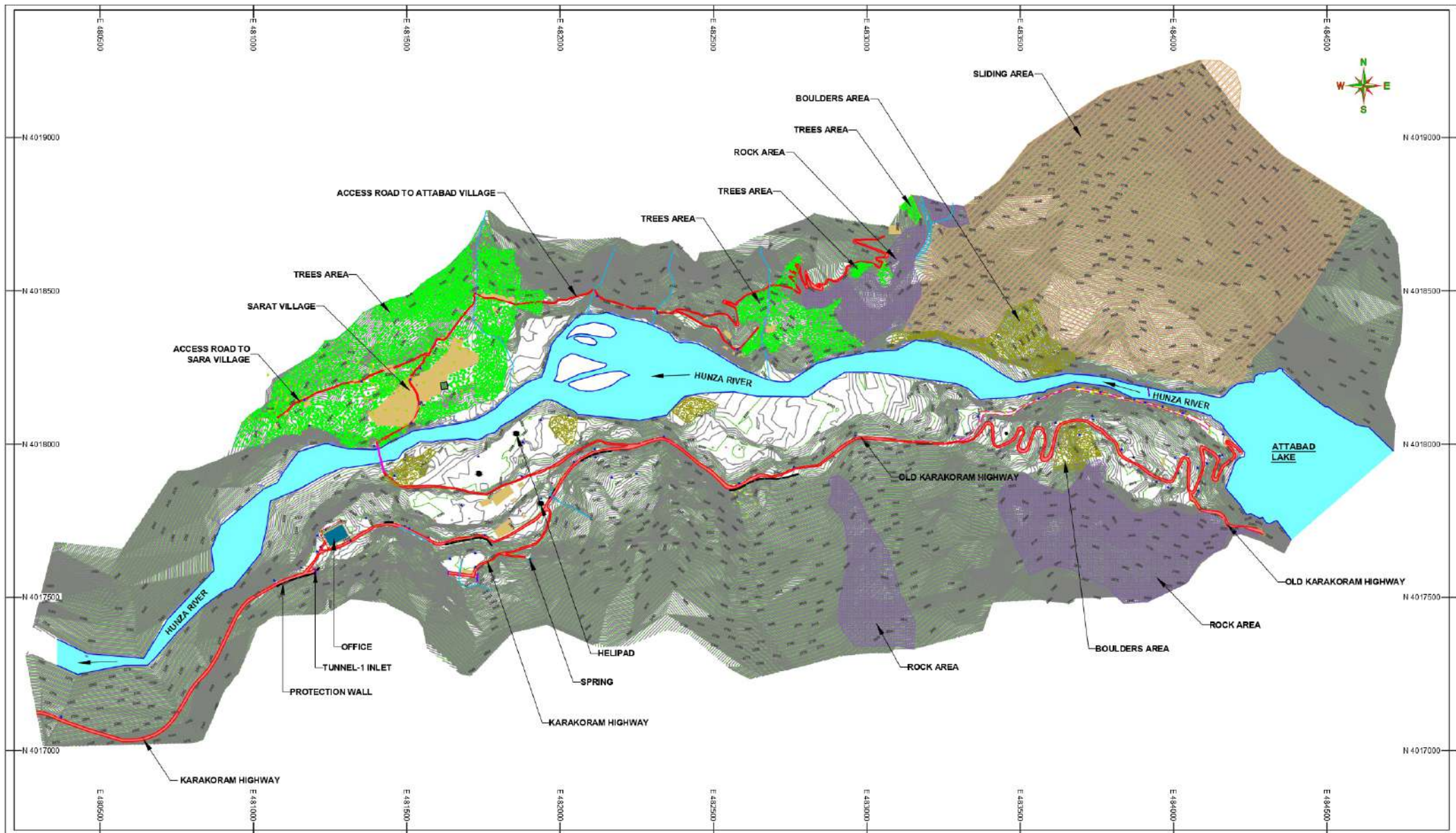
GILGIT-BALTISTAN



 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION				
PREPARED	PROJECT	ATTABAD LAKE HPP		
ISMAIL		FEASIBILITY STUDY REPORT		
DRAWN	TITLE	REGIONAL MAP OF		
AZEEM		NORTHERN AREA		
CHECKED				
ZAHID MAJEED	DATE	SCALE	DWG No:	REVISIONS
APPROVED	Jun: 2021	1"=8'	AFS-GN=103	
Abid Sheikh				

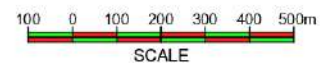


 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION				
PREPARED BY	PROJECT	ATTABAD LAKE HPP		
ISMAIL		FEASIBILITY STUDY REPORT		
DRAWN	TITLE	CATCHMENT AREA MAP		
AZEEM				
CHECKED				
APPROVED	DATE	SCALE	DWG No:	REVISIONS
Abid Sheikh	Jun: 2021	1"=8'	AFS-CA=104	



LEGENDS:

RIVER/NALLA		ELECTRIC POLE/T. POLE		WATER TANK	
HOUSES/SHOPS		RETAINING WALL		SPRING	
ROAD		TREES AREA		JAMAT KHANA	
KATCHA ROAD/TRACK		DRAIN AND NULLAH		HFL	
CONTROL POINTS		BRIDGE AND CULVERT		HELIPAD	
CONTOURS		BOULDERS		SLIDING	
				ROCK	

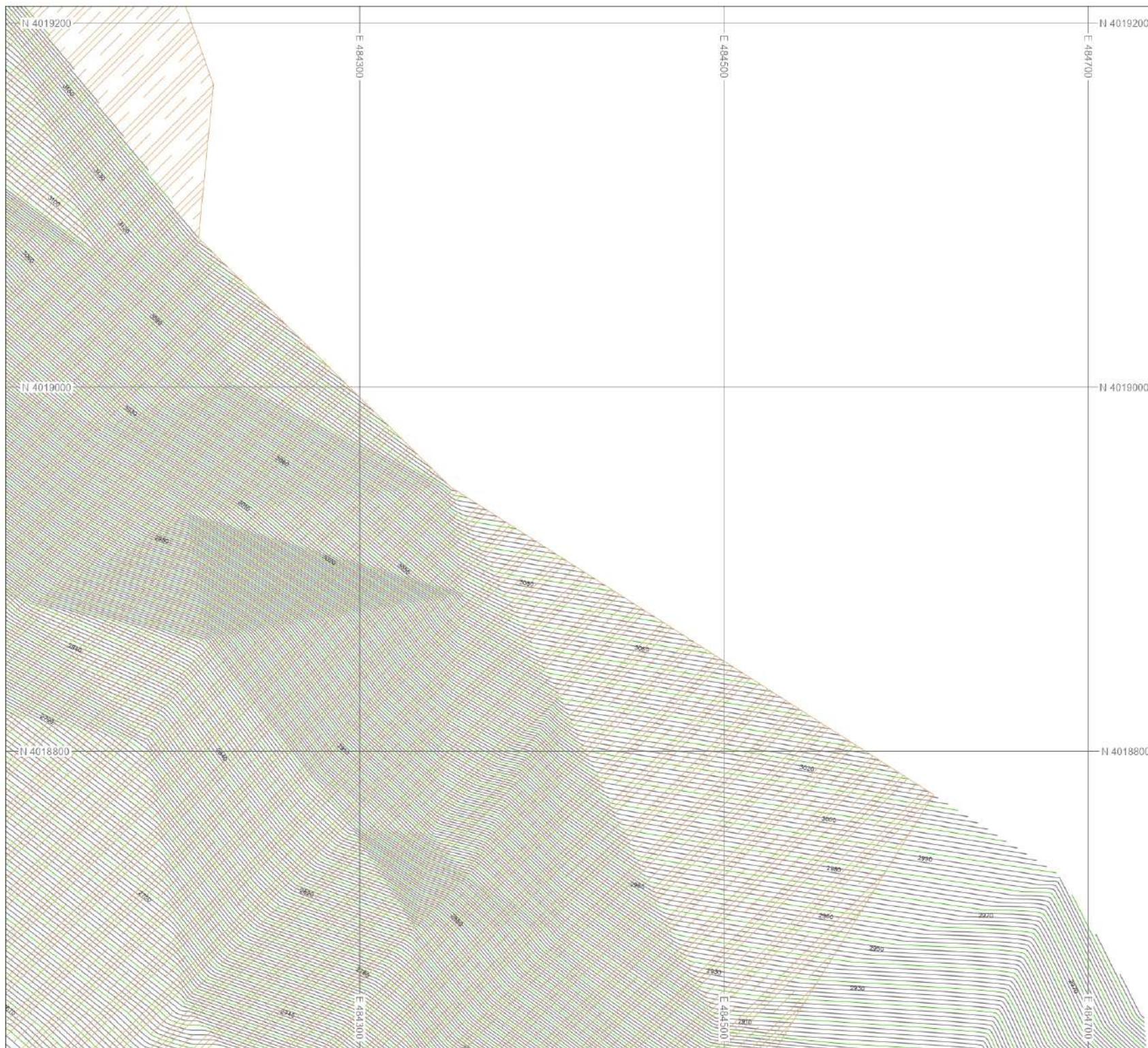


NOTE

1. ALL THE UNITS ARE IN METERS UNLESS OTHERWISE NOTED
2. SURVEY OF PAKISTAN (SOP) METRIC COORDINATE SYSTEM WAS USED FOR FIELD OBSERVATIONS.

WAS USED FOR FIELD OBSERVATIONS

		PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION			
PREPARED BY	PROJECT	ATTABAD LAKE HPP FEASIBILITY STUDY REPORT			
Ehsan					
DRAWN	TITLE	PROJECT AREA TOPOGRAPHIC SURVEY MAP			
Arshad					
CHECKED					
Ehsan					
APPROVED	DATE	SCALE	DWG No:	REVISIONS	
Abid Sheikh	Jun: 2021	1 : 12,000	AFS-TS-201		



KEY PLAN

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19	17	14	11	8	6	3
20	18	15	12	9		

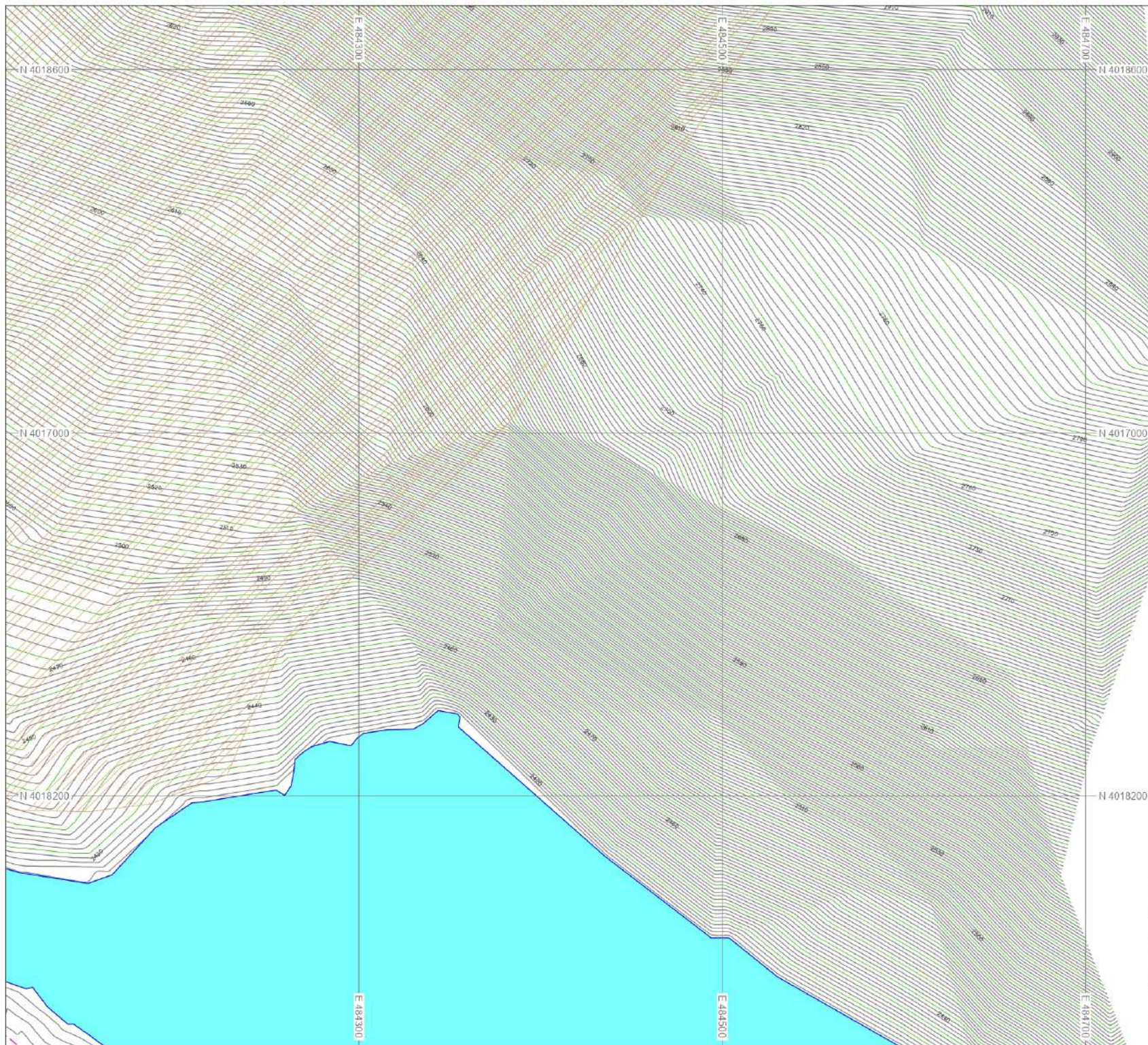
LEGENDS:

RIVER/NALLA	
HOUSES/SHOPS	
ROADS	
KATCHA ROAD/TRACK	
CONTROL POINTS	
CONTOURS	
ELECTRIC POLE/T.POLE	
RETAINING WALL	
TREES AREA	
DRAIN AND NULLAH	
BRIDGE AND CULVERT	
BOULDERS	
WATER TANK	
SPRING	
JAMAT KHANA	
HFL	
HELIPAD	
SLIDING	
ROCK	



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	PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION			
PREPARED PROJECT	ATTABAD LAKE HPP			
CHSAN	FEASIBILITY STUDY REPORT			
DRAWN				
AMSHAD				
CHECKED				
PROJECT AREA				
TOPOGRAPHIC SURVEY				
(Sheet 1 of 20)				
APPROVED	DATE	SCALE	DWG No.	REVISIONS
Abid Sheikh	Jun: 2021	1 : 2,000	AFS-TS-202	



KEY PLAN

				4	1
	16	13	10	7	
	17	14	11	8	2
19	18	15	12	9	6
20					3

LEGENDS:

- RIVER/NALLA
- HOUSES/SHOPS
- ROADS
- KATCHA ROAD/TRACK
- CONTROL POINTS
- CONTOURS
- ELECTRIC POLE/T.POLE
- RETAINING WALL
- TREES AREA
- DRAIN AND NULLAH
- BRIDGE AND CULVERT
- BOULDERS
- WATER TANK
- SPRING
- JAMAT KHANA
- HFL
- HELIPAD
- SLIDING
- ROCK



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PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED PROJECT
ATTABAD LAKE HPP
FEASIBILITY STUDY REPORT

DRAWN TITLE
PROJECT AREA
TOPOGRAPHIC SURVEY
(Sheet 2 of 20)

APPROVED DATE SCALE DWG No. REVISIONS
Abid Sheikh Jun: 2021 1 : 2,000 AFS-TS-203

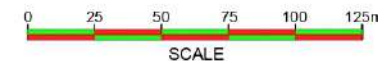


KEY PLAN

KEY PLAN						
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	17	14	11	8	5	2
19	18	15	12	9	6	3
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LEGENDS:

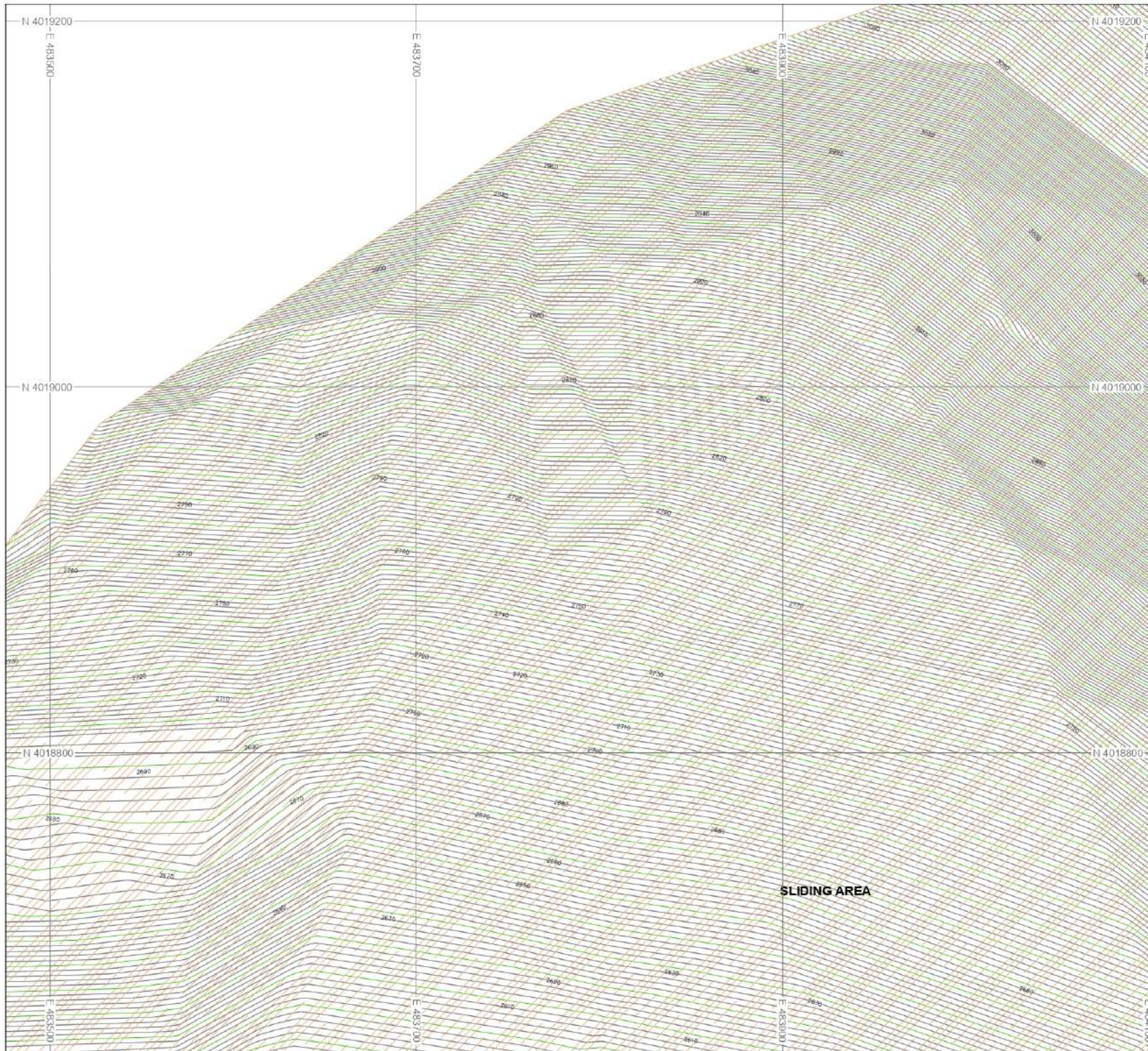
RIVER/NALLA	
HOUSES/SHOPS	
ROADS	
KATCHA ROAD/TRACK	
CONTROL POINTS	
CONTOURS	
ELECTRIC POLE/T.POLE	
RETAINING WALL	
TREES AREA	
DRAIN AND NULLAH	
BRIDGE AND CULVERT	
BOULDERS	
WATER TANK	
SPRING	
JAMAT KHANA	
HFL	
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	PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION			
PREPARED	PROJECT	ATTABAD LAKE HPP		
DRAWN	TITLE	FEASIBILITY STUDY REPORT		
Arshad		PROJECT AREA		
CHECKED		TOPOGRAPHIC SURVEY		
Ehsan		(Sheet 3 of 20)		
APPROVED	DATE	SCALE	DWG No.	REVISIONS
Abid Sheikh	Jun: 2021	1 : 2,000	AFS-TS-204	



KEY PLAN

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20	18	15	12	9		

LEGENDS:

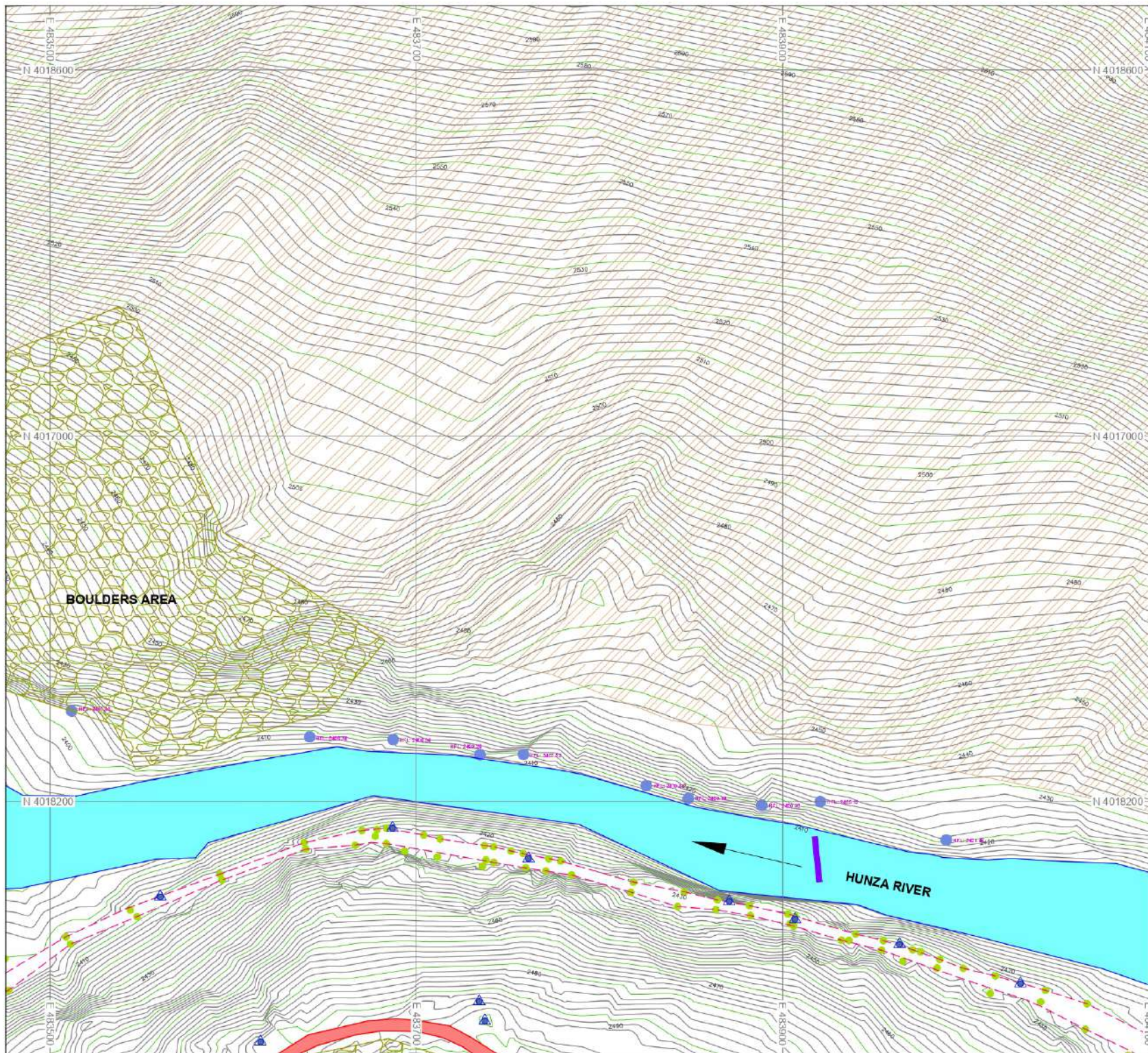
- RIVER/NALLA
- HOUSES/SHOPS
- ROADS
- KATCHA ROAD/TRACK
- CONTROL POINTS
- CONTOURS
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	PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION			
PREPARED	PROJECT	ATTABAD LAKE HPP		
Drawn	TITLE	FEASIBILITY STUDY REPORT		
Arshad	CHECKED	PROJECT AREA		
Ensan	APPROVED	TOPOGRAPHIC SURVEY		
Abid Sheikh	DATE	(Sheet 4 of 20)		
	Jun: 2021	SCALE	DWG No.	REVISIONS
		1 : 2,000	AFS-TS-205	



KEY PLAN

KEY PLAN							
						4	1
	16	13	10	7		5	
	17	14	11	8			2
19						6	3
20							

LEGENDS:

- RIVER/NALLA
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- KATCHA ROAD/TRACK
- CONTROL POINTS
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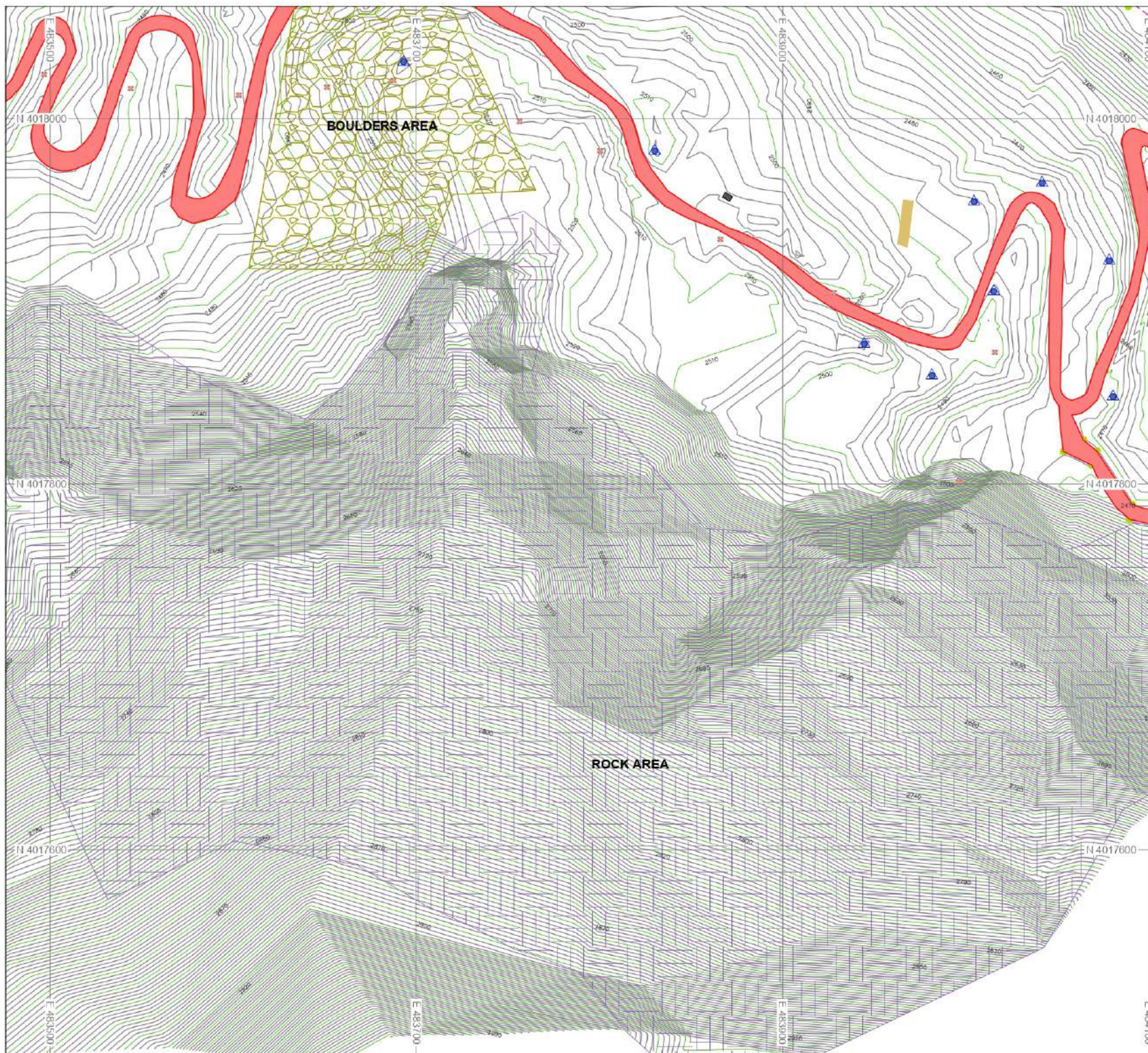
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PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED	PROJECT	ATTABAD LAKE HPP	
Drawn	TITLE	FEASIBILITY STUDY REPORT	
Arshad		PROJECT AREA	
CHECKED		TOPOGRAPHIC SURVEY	
Ehsan		(Sheet 5 of 20)	
APPROVED	DATE	SCALE	DWG No.
Abid Sheikh	Jun: 2021	1 : 2,000	AFS-TS-206
		REVISIONS	



KEY PLAN

					4	1
	16	13	10	7	5	2
19	17	14	11	8	6	3
20	18	15	12	9		

LEGENDS:

- RIVER/NALLA
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PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED

PROJECT

ATTABAD LAKE HPP
FEASIBILITY STUDY REPORT

DRAWN

TITLE

PROJECT AREA
TOPOGRAPHIC SURVEY
(Sheet 6 of 20)

CHECKED

DATE

SCALE

DWG No.

REVISIONS

APPROVED

DATE

SCALE

DWG No.

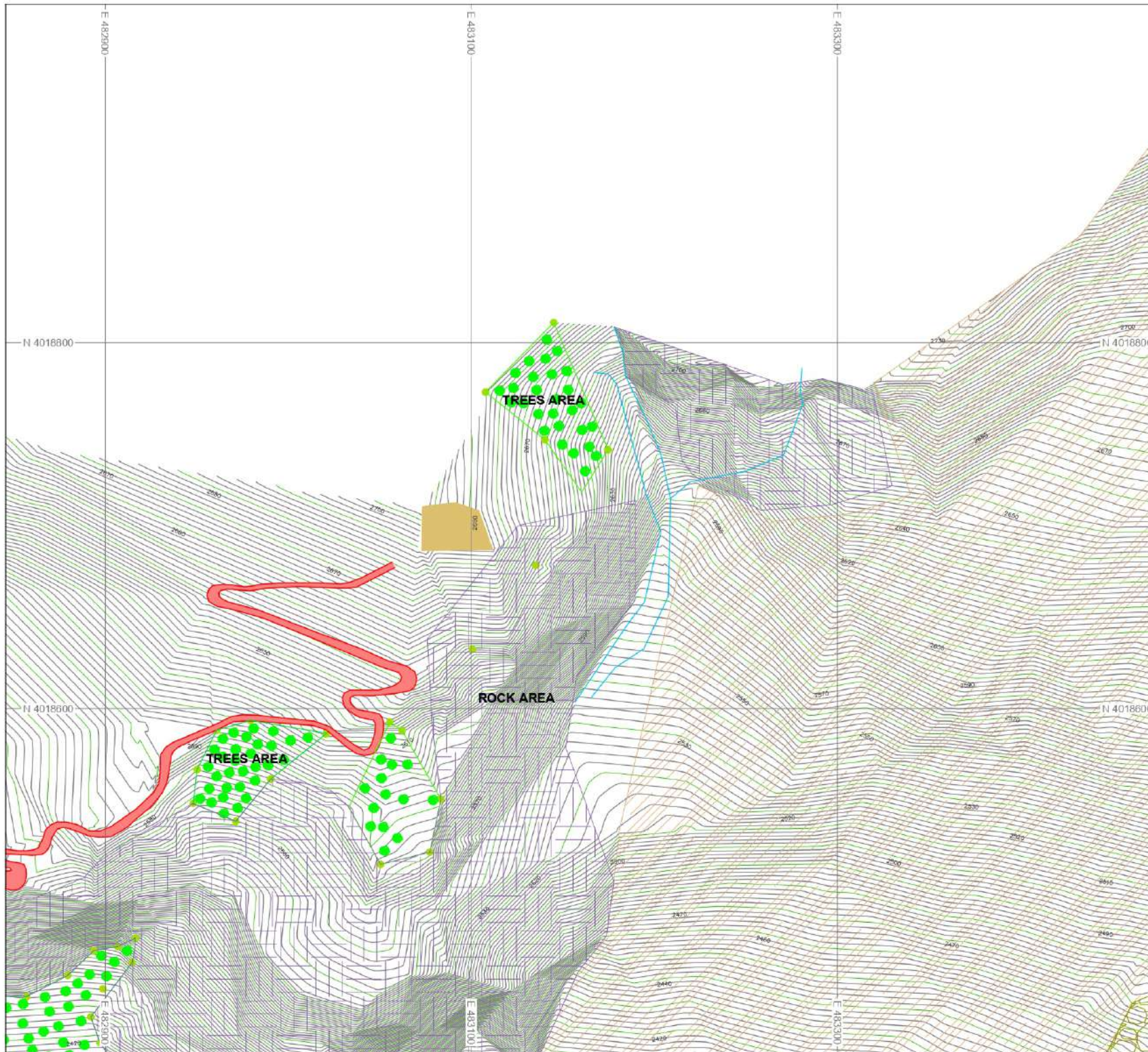
REVISIONS

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-207



KEY PLAN

	16	13	10	7	4	1
	17	14	11	8	5	2
19	18	15	12	9	6	3
20						

LEGENDS:

RIVER/NALLA
 HOUSES/SHOPS
 ROADS
 KATCHA ROAD/TRACK
 CONTROL POINTS
 CONTOURS
 ELECTRIC POLE/T.POLE
 RETAINING WALL
 TREES AREA
 DRAIN AND NULLAH
 BRIDGE AND CULVERT
 BOULDERS
 WATER TANK
 SPRING
 JAMAT KHANA
 HFL
 HELIPAD
 SLIDING
 ROCK



NOTE:

1. ALL THE UNITS ARE IN METERS UNLESS OTHERWISE NOTED
2. SURVEY OF PAKISTAN (SOP) METRIC COORDINATE SYSTEM WAS USED FOR FIELD OBSERVATIONS.



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED PROJECT

ATTABAD LAKE HPP
FEASIBILITY STUDY REPORT

ENSAH

DRAWN

ARSHAD

CHECKED

ENSAH

APPROVED

ABID SHEIKH

DATE

JUN: 2021

SCALE

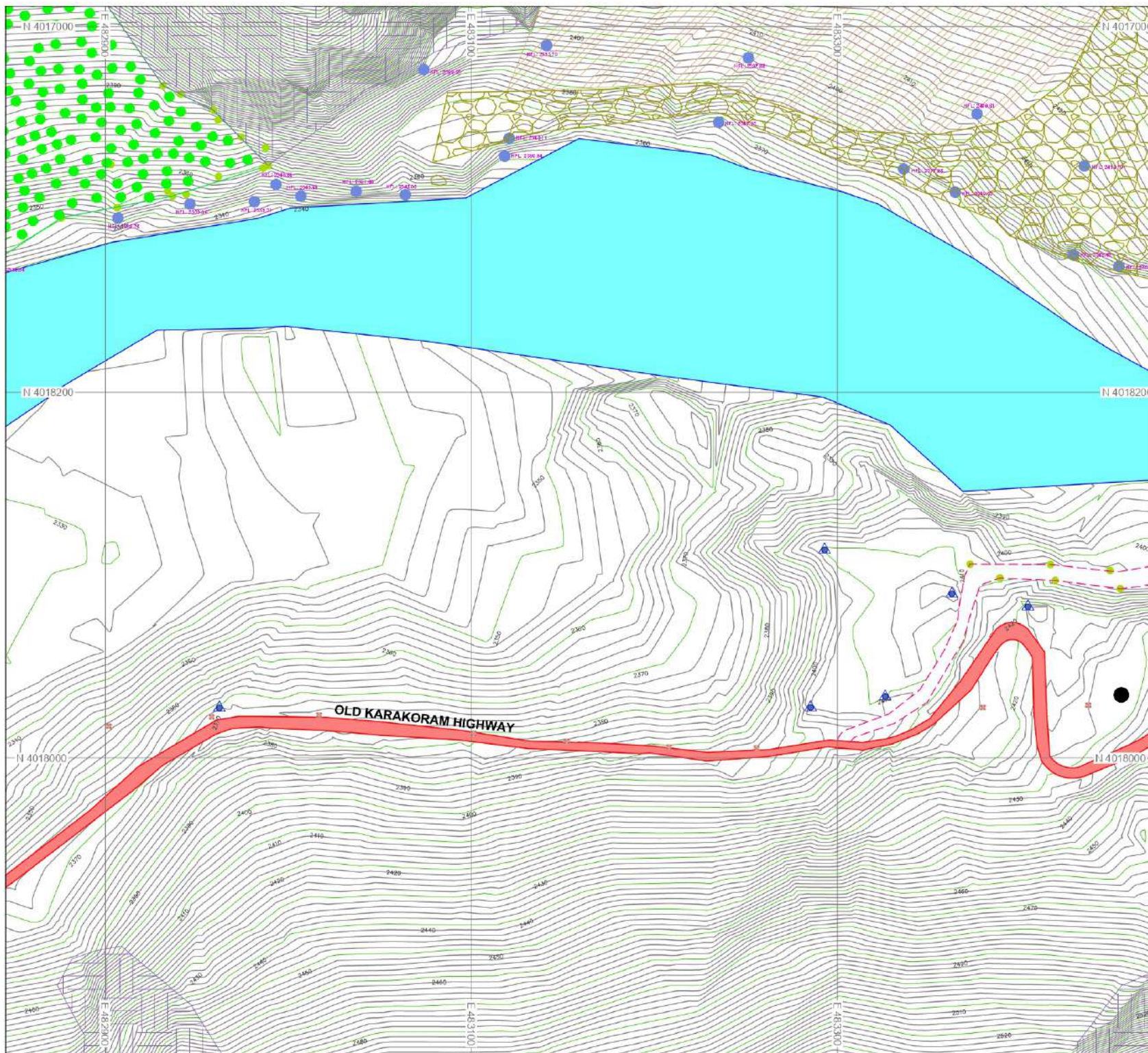
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DWG No.

AFS-TS-208

REVISIONS

PROJECT AREA
TOPOGRAPHIC SURVEY
 (Sheet 7 of 20)



KEY PLAN

				4	1
	16	13	10	7	5
19	17	14	11	8	6
20	18	15	12	9	3

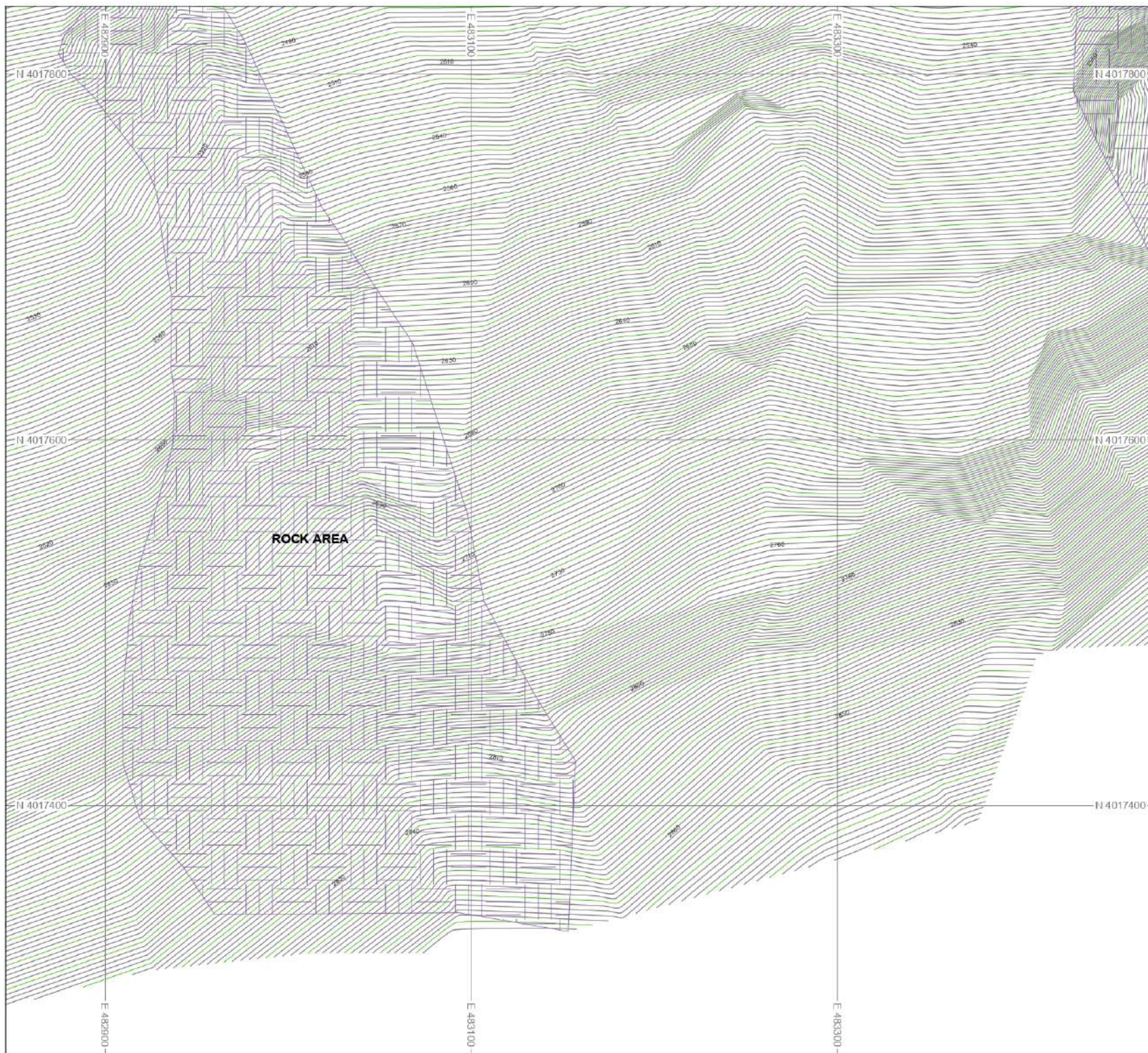
LEGENDS:

RIVER/NALLA	
HOUSES/SHOPS	
ROADS	
KATCHA ROAD/TRACK	
CONTROL POINTS	
CONTOURS	
ELECTRIC POLE/T.POLE	
RETAINING WALL	
TREES AREA	
DRAIN AND NULLAH	
BRIDGE AND CULVERT	
BOULDERS	
WATER TANK	
SPRING	
JAMAT KHANA	
HFL	
HELIPAD	
SLIDING	
ROCK	



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	PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION			
PREPARED	PROJECT	ATTABAD LAKE HPP FEASIBILITY STUDY REPORT		
DRAWN	TITLE	PROJECT AREA TOPOGRAPHIC SURVEY (Sheet 8 of 20)		
CHECKED	DATE	SCALE	DWG No.	REVISIONS
APPROVED	Jun: 2021	1 : 2,000	AFS-TS-209	



KEY PLAN

KEY PLAN						
	16	13	10	7	4	1
	17	14	11	8	5	2
19	18	15	12	9	6	3
20						

LEGENDS:

- RIVER/NALLA
- HOUSES/SHOPS
- ROADS
- KATCHA ROAD/TRACK
- CONTROL POINTS
- CONTOURS
- ELECTRIC POLE/T.POLE
- RETAINING WALL
- TREES AREA
- DRAIN AND NULLAH
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PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED

PROJECT

ATTABAD LAKE HPP
FEASIBILITY STUDY REPORT

DRAWN

TITLE

PROJECT AREA
TOPOGRAPHIC SURVEY
(Sheet 9 of 20)

CHECKED

DATE

SCALE

DWG No.

REVISIONS

APPROVED

DATE

SCALE

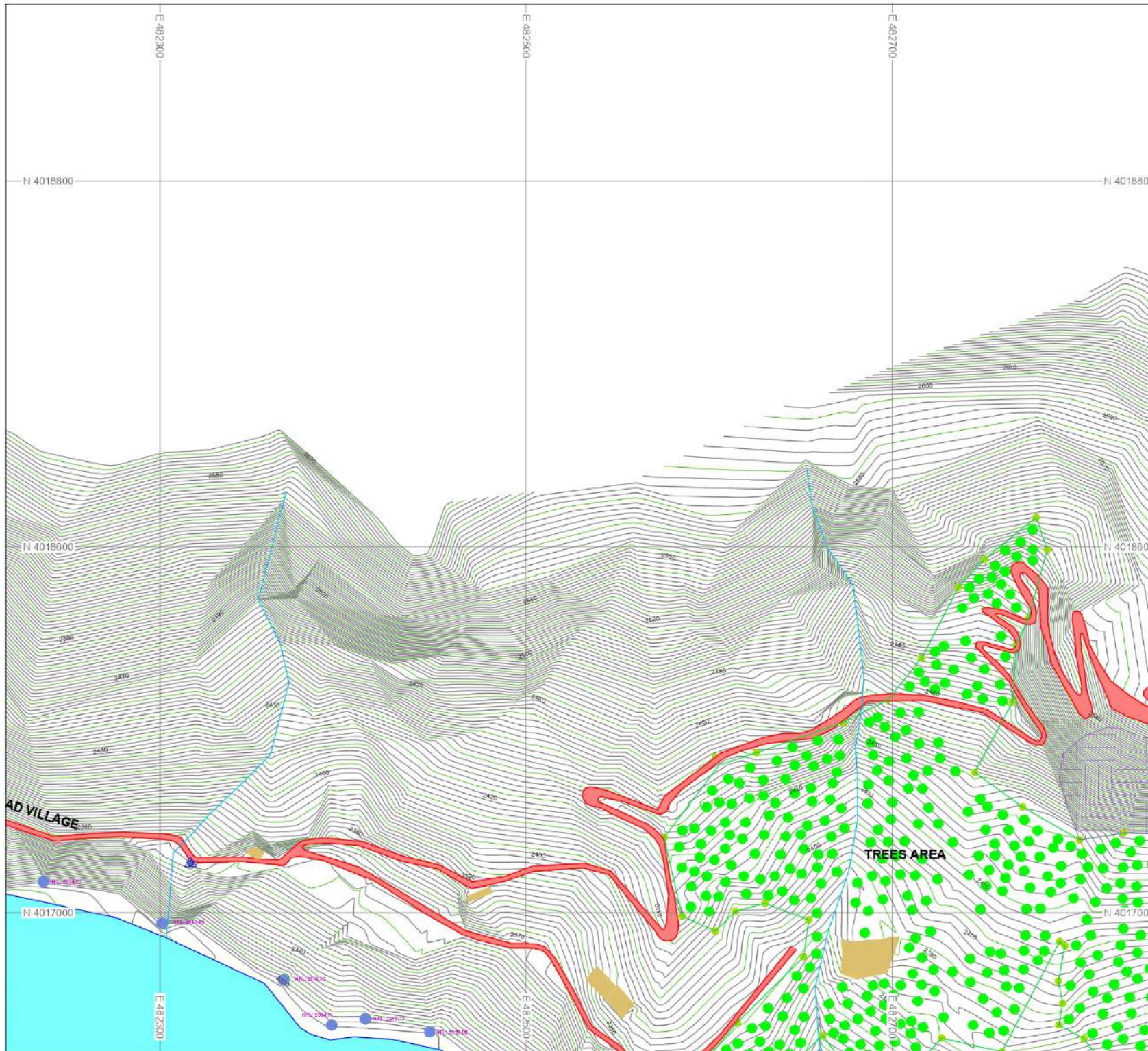
DWG No.

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-210



KEY PLAN

KEY PLAN						
	16	13	10	7	4	1
	17	14	11	8	5	2
19	18	15	12	9	6	3
20						

LEGENDS:

- RIVER/NALLA
- HOUSES/SHOPS
- ROADS
- KATCHA ROAD/TRACK
- CONTROL POINTS
- CONTOURS
- ELECTRIC POLE/T.POLE
- RETAINING WALL
- TREES AREA
- DRAIN AND NULLAH
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PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED

PROJECT

ATTABAD LAKE HPP
FEASIBILITY STUDY REPORT

DRAWN

TITLE

CHECKED

DATE

PROJECT AREA
TOPOGRAPHIC SURVEY
(Sheet 10 of 20)

APPROVED

DATE

SCALE

DWG No.

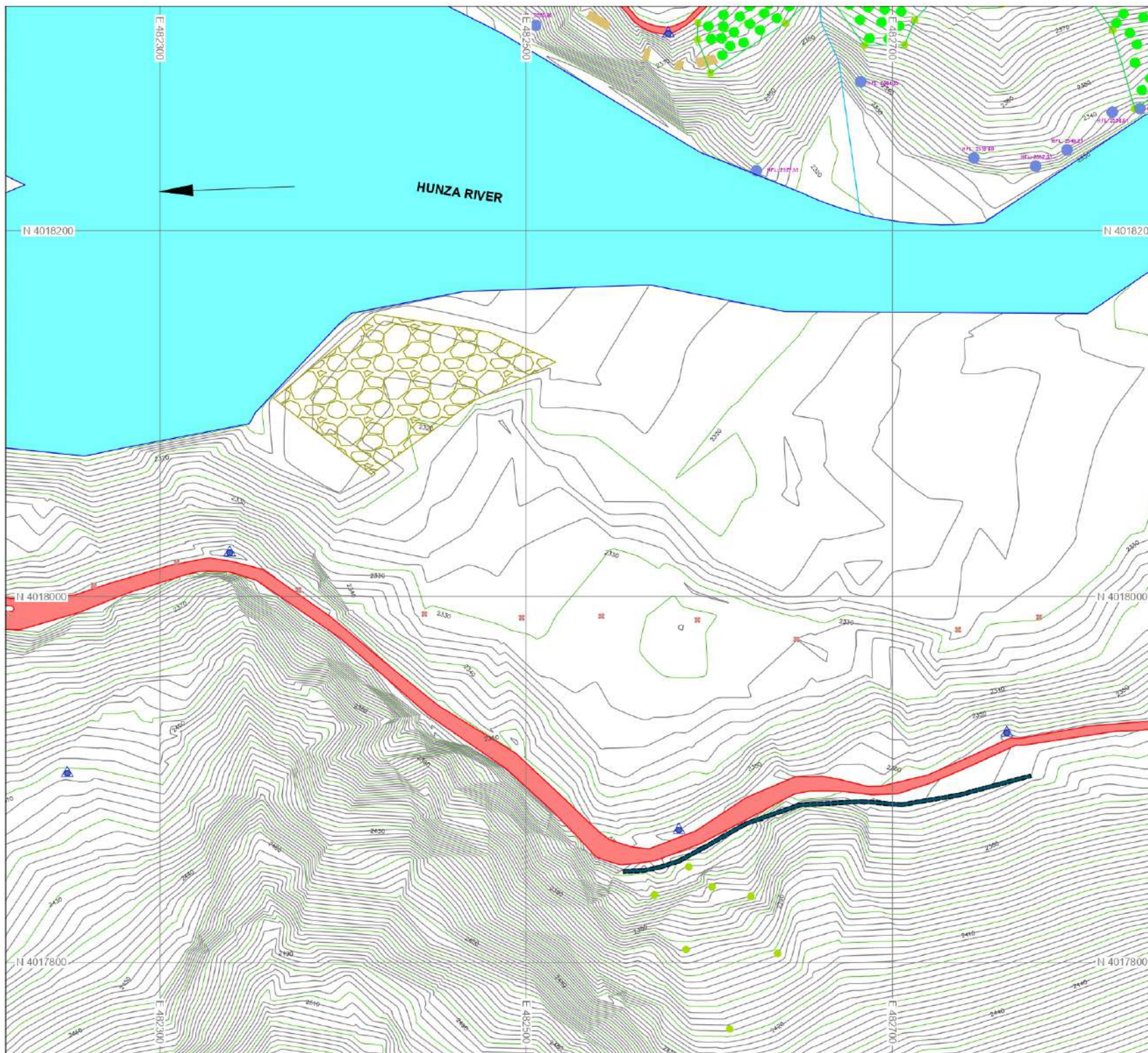
REVISIONS

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Jun: 2021

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AFS-TS-211

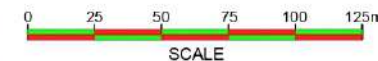


KEY PLAN

KEY PLAN						
	16	13	10	7	4	1
	17	14	11	8	5	2
19	18	15	12	9	6	3
20						

LEGENDS:

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- ROADS
- KATCHA ROAD/TRACK
- CONTROL POINTS
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PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

PREPARED	PROJECT	ATTABAD LAKE HPP	
Ensan		FEASIBILITY STUDY REPORT	
DRAWN	TITLE	PROJECT AREA	
Arshad		TOPOGRAPHIC SURVEY	
CHECKED		(Sheet 11 of 20)	
Ensan	DATE	SCALE	DWG No.
Abid Sheikh	Jun: 2021	1 : 2,000	AFS-TS-212
		REVISIONS	