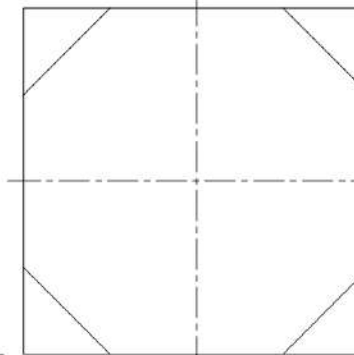
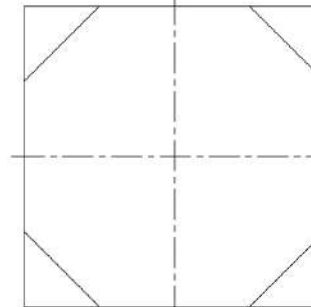
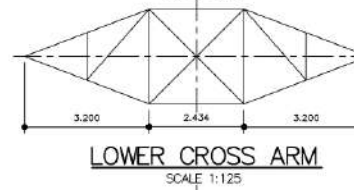
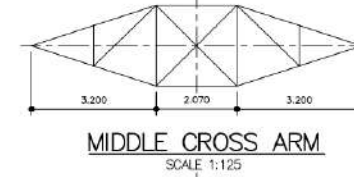
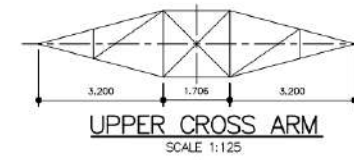
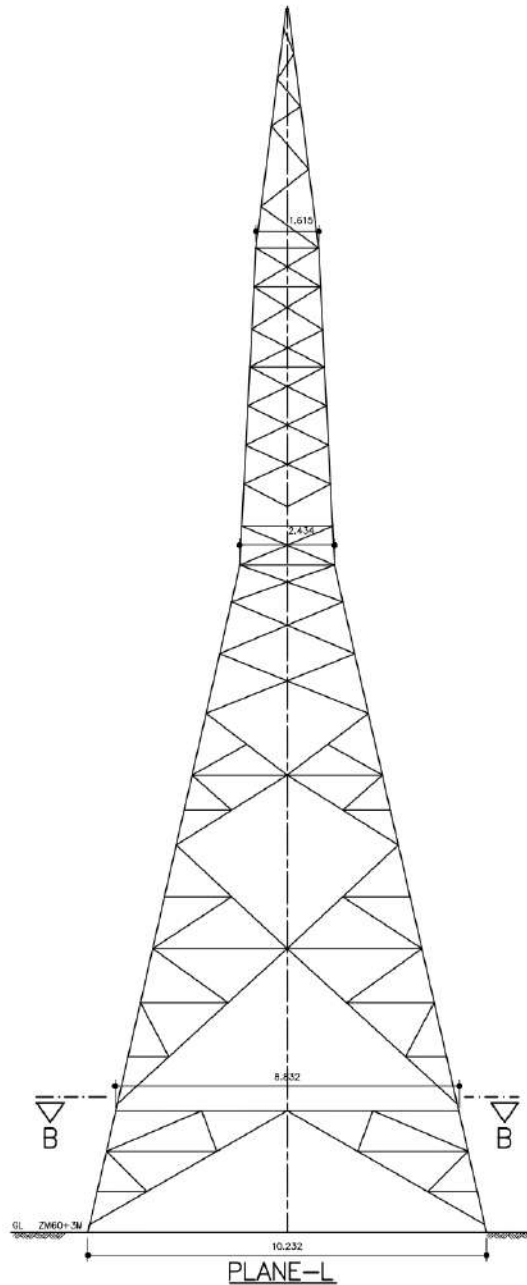
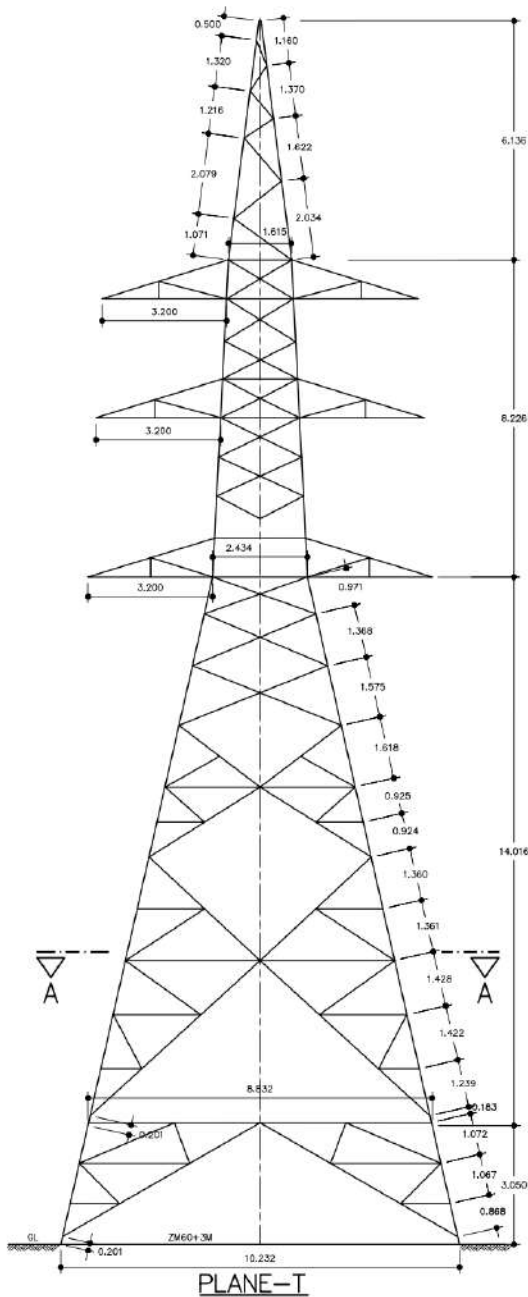




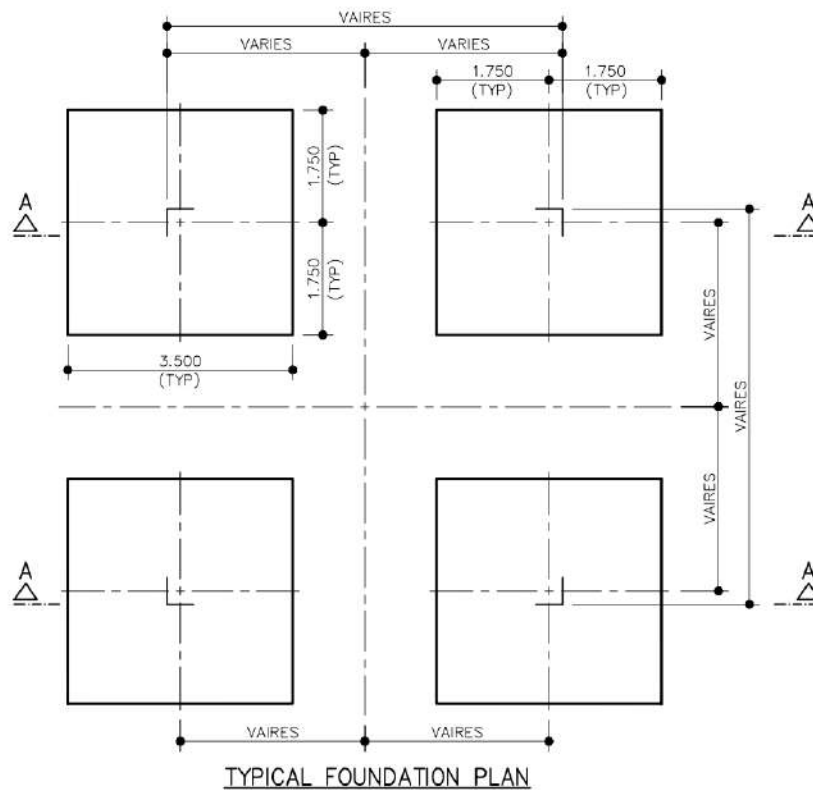
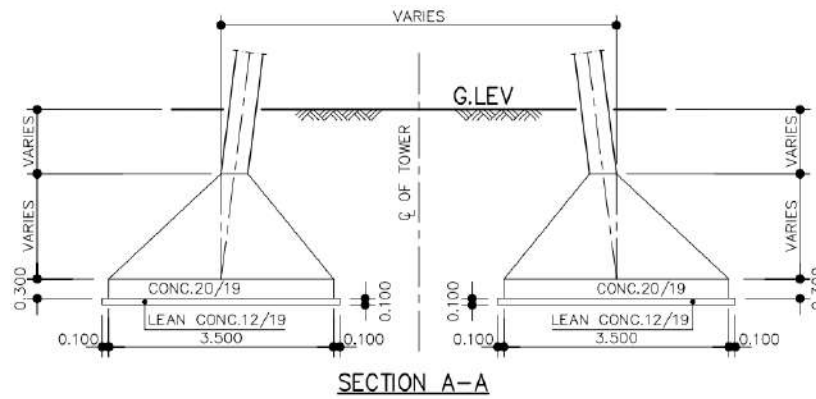
- NOTES:
- FINAL TOWER DESIGN SHALL BE DETERMINED BY ENGINEER/ CONTRACTOR DURING FINAL DESIGN STAGE.
 - ALL LENGTHS IN METER.



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY
HYDRO PLANNING ORGANIZATION

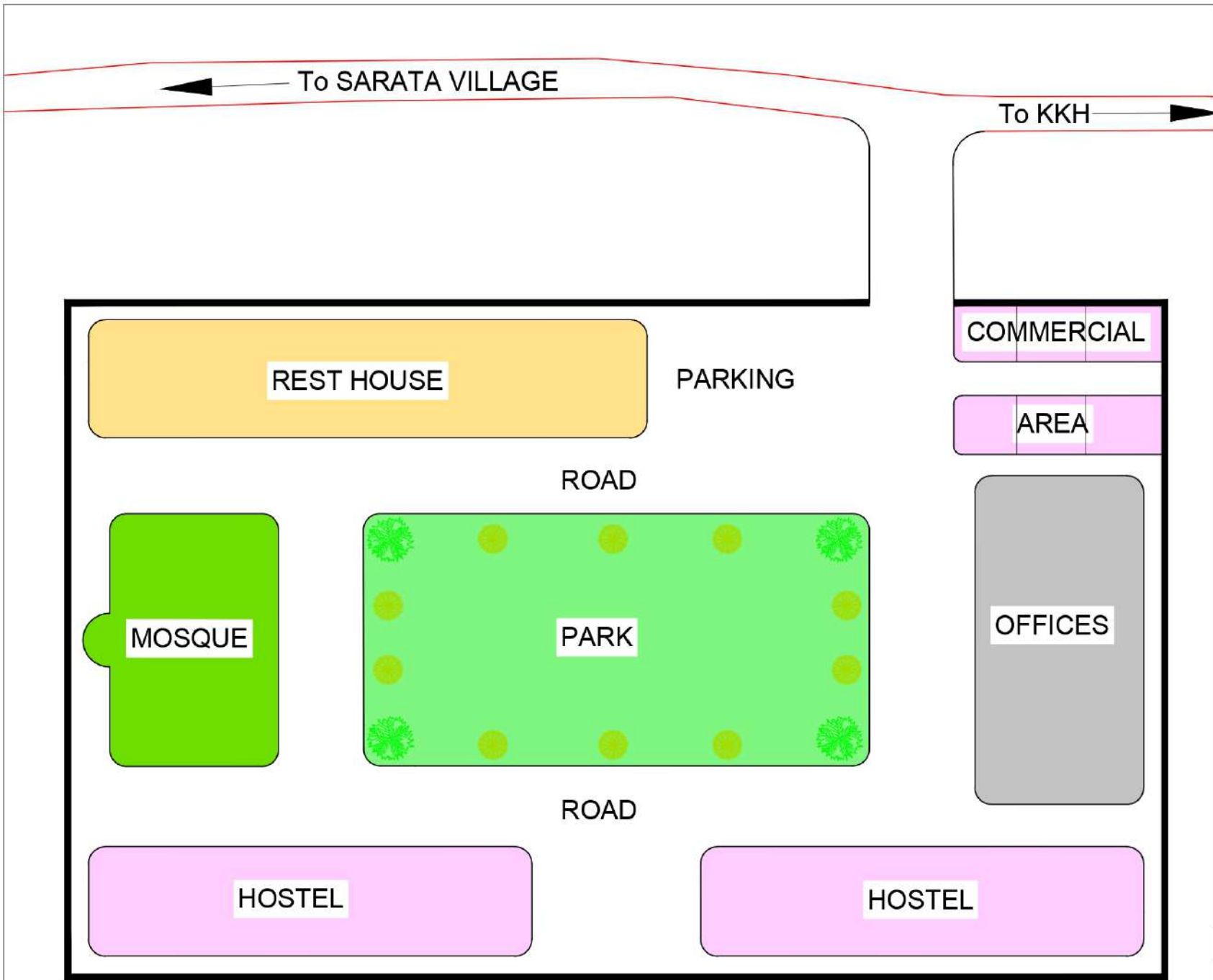
PREPARED BY Bilal Nawaz	PROJECT TITLE ATTABAD LAKE HPP FEASIBILITY STUDY REPORT
DRAWN BY M. Saad	132KV-TRANSMISSION LINE TYPE-ZM 60
CHECKED BY Faiz Rasool	

APPROVED BY Abid Sheikh	DATE Jun: 2021	SCALE NTS	DWG No. ASF-EM-459	REVISIONS
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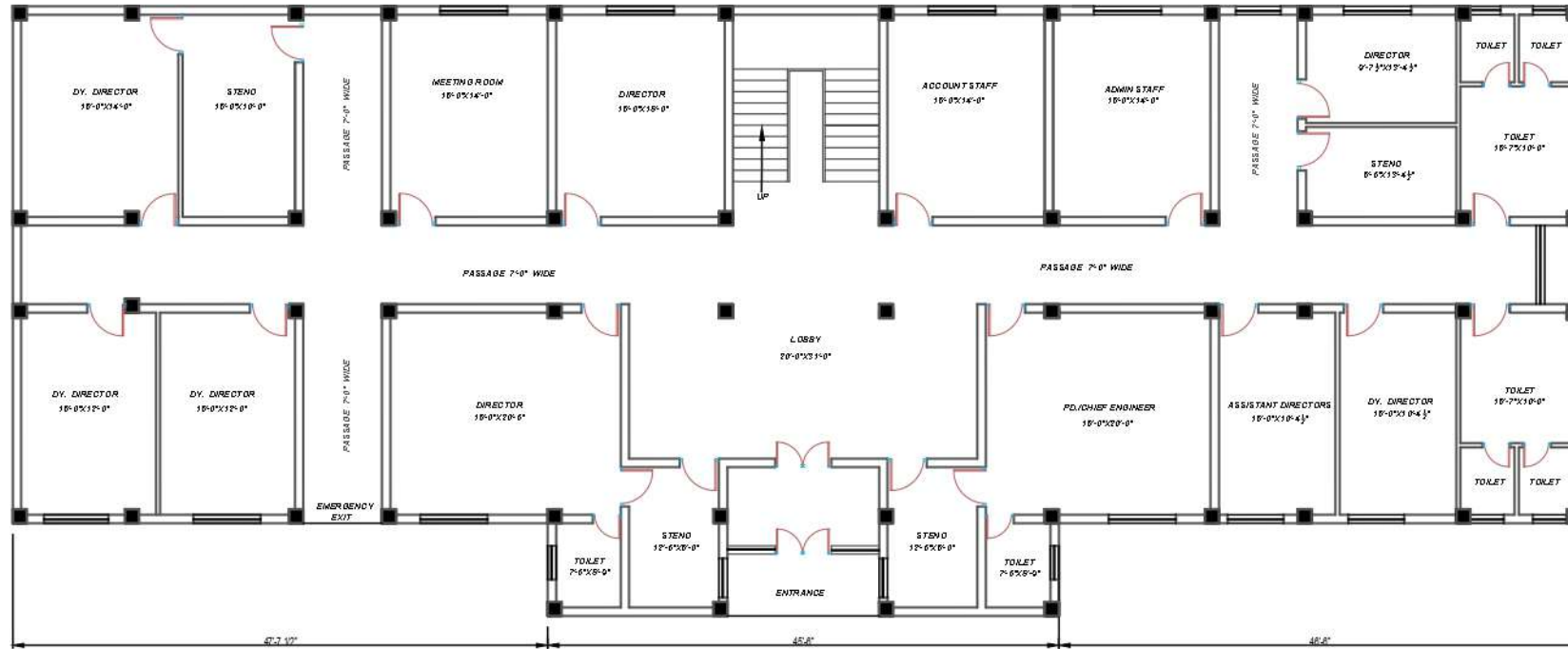


- NOTES:
- FINAL DESIGN SHALL BE DETERMINED BY ENGINEER/ CONTRACTOR DURING FINAL DESIGN STAGE.
 - ALL LENGTHS IN METER.

		PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY	
		HYDRO PLANNING ORGANIZATION	
PREPARED BY Bilal Nawaz	PROJECT ATTABAD LAKE HPP	TITLE FEASIBILITY STUDY REPORT	
DRAWN M. Saad	TYPICAL TOWER FOUNDATION		
CHECKED Faiz Rasool	DATE Jun: 2021	SCALE NTS	DWG No. ASF-EM-460
APPROVED Abid Sheikh	REVISIONS		



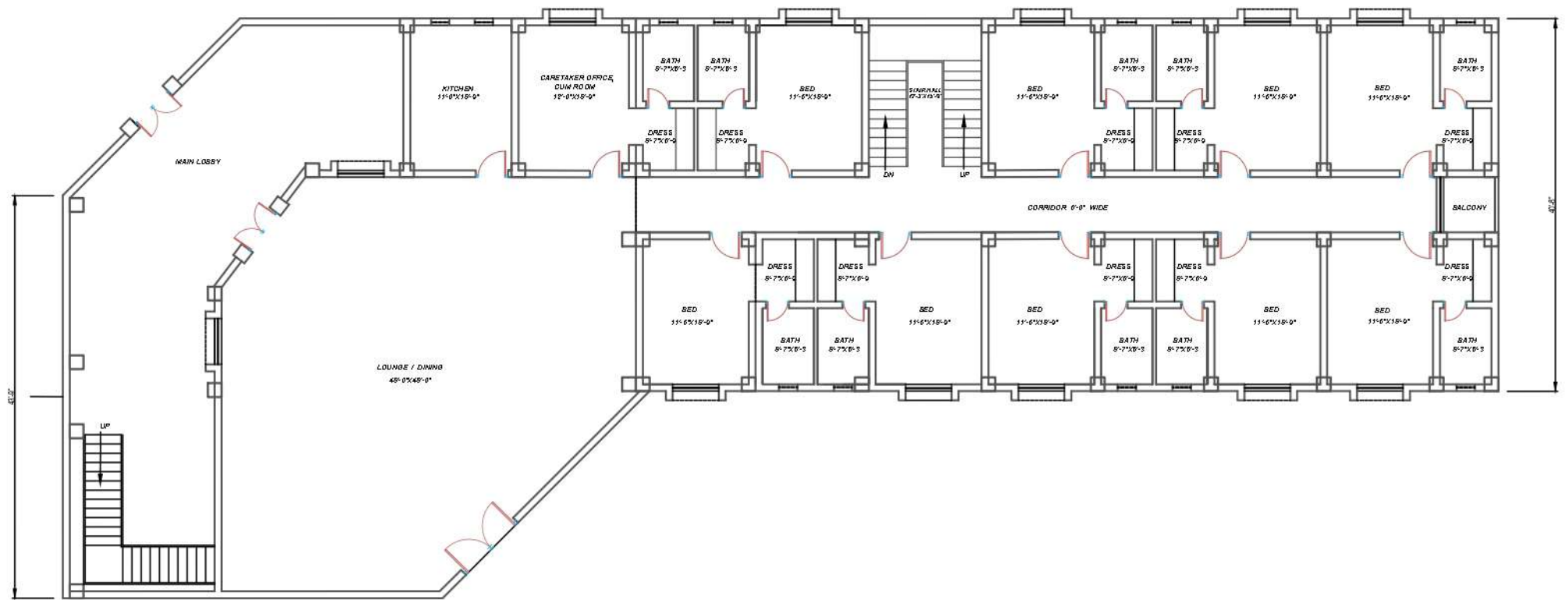
NOTE.				
1. ALL THE UNITS ARE IN METERS UNLESS OTHERWISE NOTED				
2. SURVEY OF PAKISTAN (SOP) METRIC COORDINATE SYSTEM WAS USED FOR FILED OBSERVATIONS.				
 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY				
HYDRO PLANNING ORGANIZATION				
PREPARED	PROJECT	ATTABAD LAKE HPP		
ISMAIL	TITLE	FEASIBILITY STUDY REPORT		
ARSHAD	CHECKED	OFFICES AND RESIDENTIAL		
CHECKED		COMPLEX		
ZAHID	DATE	MASTER PLAN		
APPROVED		SCALE	DWG No.	REVISIONS
ABID SHEIKH	Jun: 2021	1 : 2,000	AFS-ORC-471	



NOTE:

1. ALL DIMENSIONS ARE IN FEET UNLESS INDICATED.
2. ALL LEVELS ARE IN FEET.
3. THE SCALE SHOWN ARE FOR A DRAWING PRINTED.

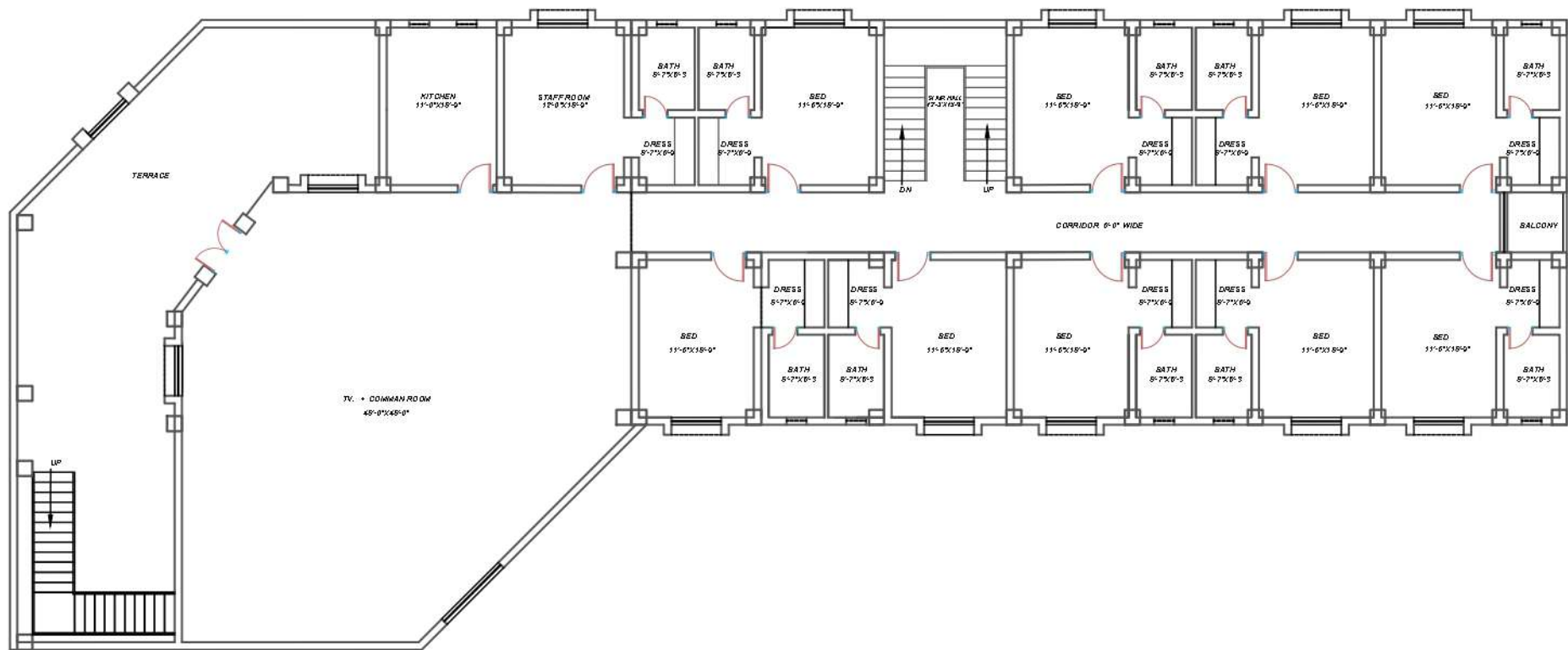
 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION			
PREPARED	PROJECT	ATTABAD LAKE HPP FEASIBILITY STUDY REPORT	
ISMAIL	TITLE	OFFICE BUILDING PLAN	
DRAWN			
AZEEM			
CHECKED			
ZAHID WAJED			
APPROVED	DATE	SCALE	DWG No: REVISIONS
Abid Sheikh	Jun: 2021	1"=8'	AFS-ORC=472



NOTE:

1. ALL DIMENSIONS ARE IN FEET UNLESS INDICATED.
2. ALL LEVELS ARE IN FEET.
3. THE SCALE SHOWN ARE FOR A DRAWING PRINTED.

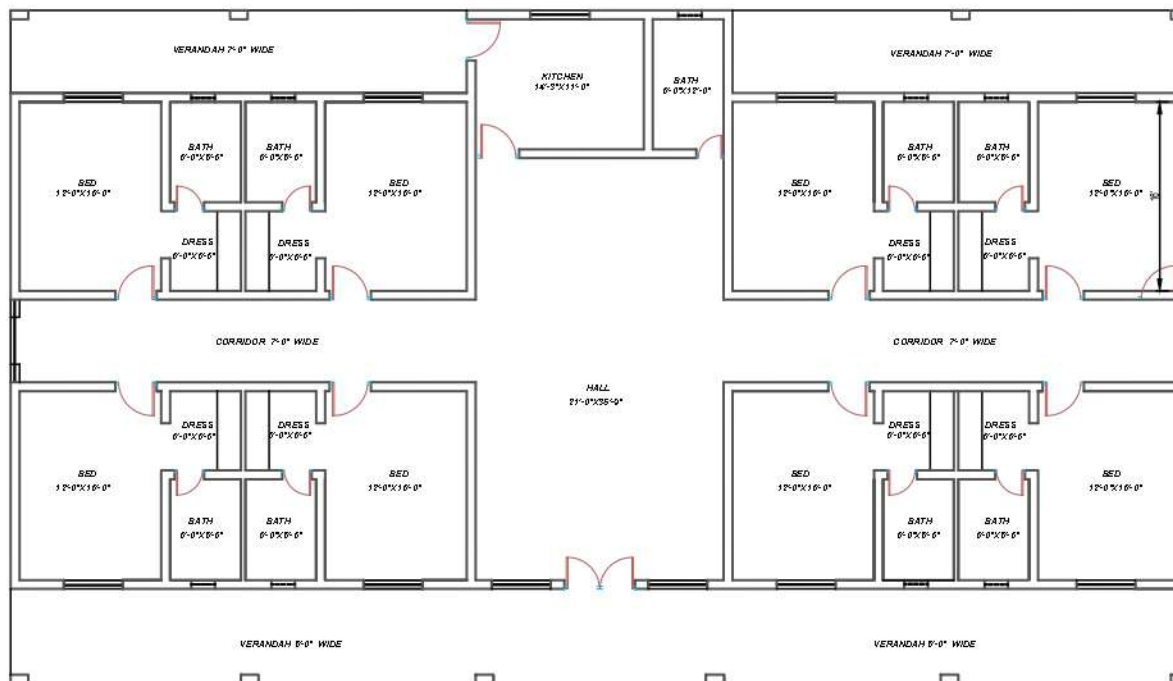
 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION		PREPARED PROJECT	ATTABAD LAKE HPP FEASIBILITY STUDY REPORT		
		ISMAIL DRAWN	OFFICERS HOSTEL GROUND FLOOR PLAN		
AZEEM CHECKED		TITLE			
ZAHID WAJED APPROVED		DATE	SCALE	DWG No:	REVISIONS
Abid Sheikh		Jun: 2021	1"=8'	AFS-ORC-473	



NOTE:

1. ALL DIMENSIONS ARE IN FEET UNLESS INDICATED.
2. ALL LEVELS ARE IN FEET.
3. THE SCALE SHOWN ARE FOR A DRAWING PRINTED.

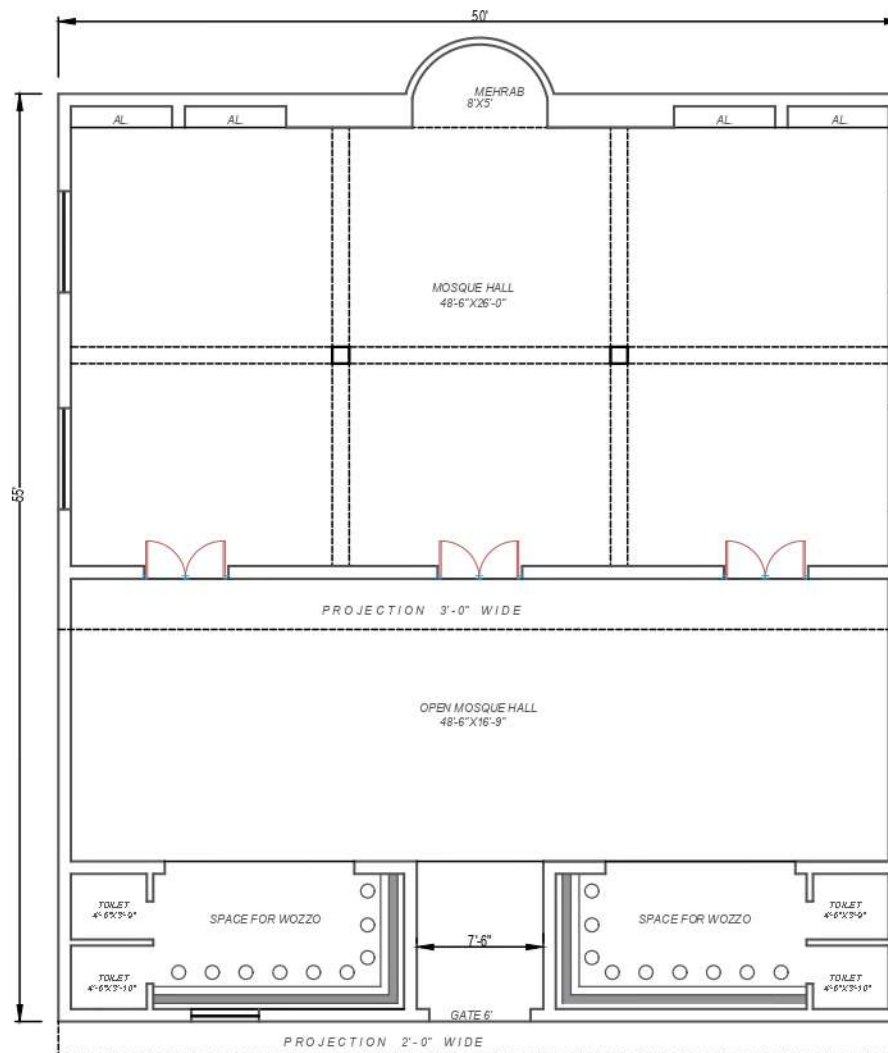
		PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY			
		HYDRO PLANNING ORGANIZATION			
PREPARED	PROJECT	ATTABAD LAKE HPP			
ISMAIL		FEASIBILITY STUDY REPORT			
DRAWN	TITLE	OFFICERS HOSTEL FIRST FLOOR PLAN			
AZEEM					
CHECKED					
ZAHID WAJED					
APPROVED	DATE	SCALE	DWG No:	REVISIONS	
Abid Sheikh	Jun: 2021	1"=8'	AFS-ORC-474		



NOTE:

1. ALL DIMENSIONS ARE IN FEET UNLESS INDICATED.
2. ALL LEVELS ARE IN FEET.
3. THE SCALE SHOWN ARE FOR A DRAWING PRINTED.

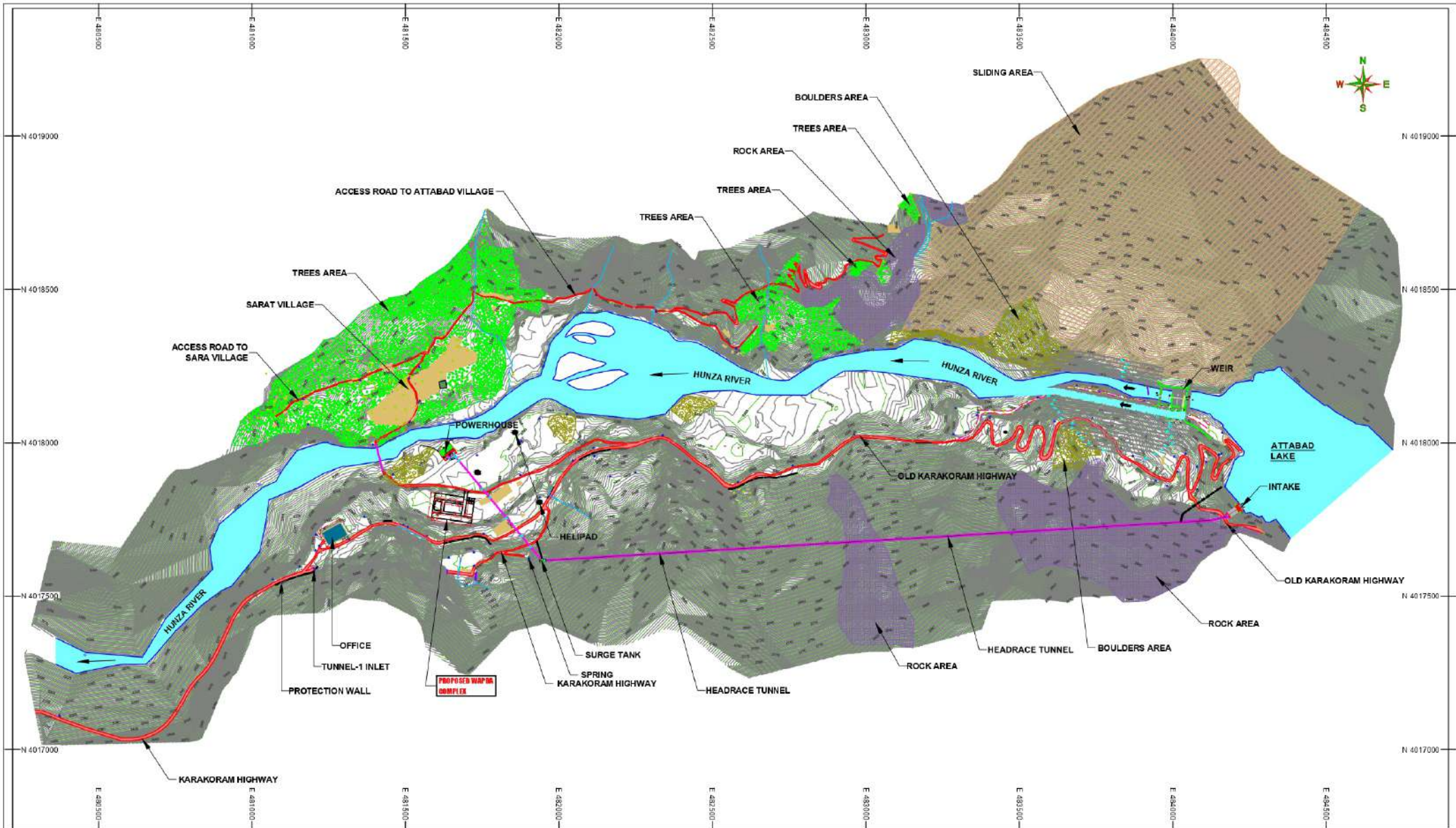
 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION		ATTABAD LAKE HPP FEASIBILITY STUDY REPORT	
PREPARED	PROJECT	REST HOUSE PLAN	
ISMAIL	TITLE		
DRAWN			
AZEEM		REST HOUSE PLAN	
CHECKED			
ZAHID WAJED			
APPROVED	DATE	SCALE	DWG No:
Abid Sheikh	Jun: 2021	1"=8'	AFS-ORC-475
		REVISIONS	



NOTE:

1. ALL DIMENSIONS ARE IN FEET UNLESS INDICATED.
2. ALL LEVELS ARE IN FEET.
3. THE SCALE SHOWN ARE FOR A DRAWING PRINTED.

 PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY HYDRO PLANNING ORGANIZATION		PREPARED PROJECT	ATTABAD LAKE HPP FEASIBILITY STUDY REPORT	
		ISMAIL DRAWN	MOSQUE PLAN	
ZAHID WAJED		AZEEM CHECKED		
APPROVED	DATE	SCALE	DWG No:	REVISIONS
Abid Sheikh	Jun: 2021	1"=8'	AFS-ORC-476	



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		HELLIPAD	
CONTOURS		BOULDERS		SLIDING	
				ROCK	



NOTE

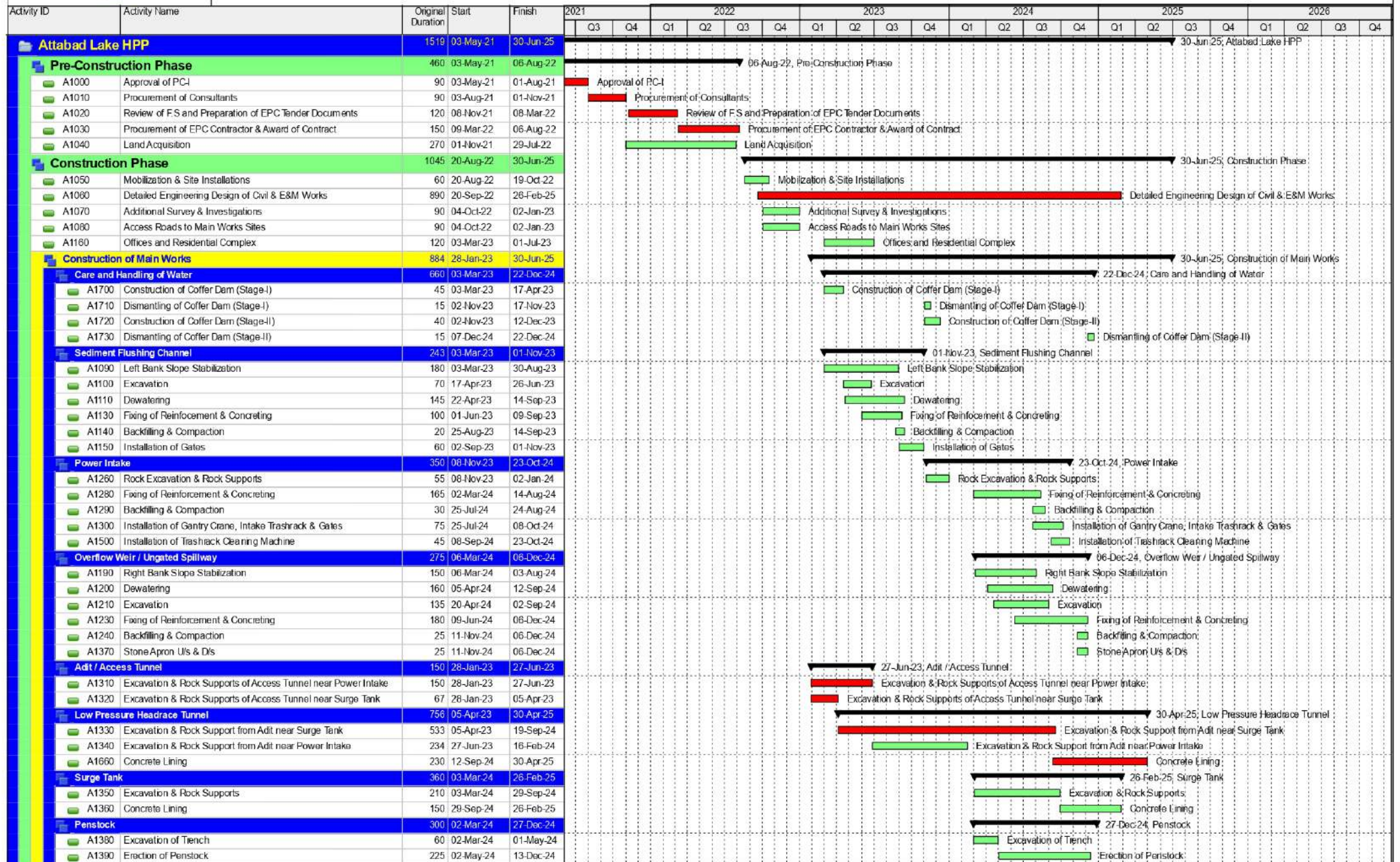
1. ALL THE UNITS ARE IN METERS UNLESS OTHERWISE NOTED
2. SURVEY OF PAKISTAN (SOP) METRIC COORDINATE SYSTEM WAS USED FOR FIELD OBSERVATIONS

		PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY	
HYDRO PLANNING ORGANIZATION			
PREPARED	PROJECT	ATTABAD LAKE HPP FEASIBILITY STUDY REPORT	
Drawn	TITLE		
Arshad		PROJECT LAND REQUIREMENT	
CHECKED			
APPROVED	DATE	SCALE	DWG No.
Abid Sheikh	Jun: 2021	1 : 12,000	AFS-EN-477
		REVISIONS	



ATTABAD LAKE HYDROPOWER PROJECT

IMPLEMENTATION SCHEDULE





ATTABAD LAKE HYDROPOWER PROJECT

IMPLEMENTATION SCHEDULE

Activity ID	Activity Name	Original Duration	Start	Finish	2021		2022				2023				2024				2025				2026			
							Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
	 A1400 Reinforcement & Concreting of Anchor Blocks	60	14-Oct-24	13-Dec-24																						
	 A1410 Backfilling & Compaction	45	12-Nov-24	27-Dec-24																						
	 Powerhouse	465	02-Mar-24	10-Jun-25																						
	 A1420 Excavation	55	02-Mar-24	26-Apr-24																						
	 A1430 Dewatering	90	26-Apr-24	25-Jul-24																						
	 A1440 Concreting in Foundations	90	27-Apr-24	26-Jul-24																						
	 A1450 Concreting of Super Structure	75	26-Jul-24	09-Oct-24																						
	 A1460 Backfilling around Powerhouse Structure	30	29-Jul-24	28-Aug-24																						
	 A1470 Installation of Overhead Crane	25	03-Oct-24	28-Oct-24																						
	 A1480 Installation of Turbines, Generators & Transformers	180	29-Oct-24	27-Apr-25																						
	 A1490 Installation of Auxiliary Electromechanical Systems	110	07-Jan-25	27-Apr-25																						
	 A1520 Architectural & Finishing Works	45	26-Apr-25	10-Jun-25																						
	 Tailrace Channel	90	12-Mar-24	10-Jun-24																						
	 A1530 Excavation	25	12-Mar-24	06-Apr-24																						
	 A1550 Fixing of Reinforcement & Concreting	55	03-Apr-24	28-May-24																						
	 A1560 Backfilling	15	26-May-24	10-Jun-24																						
	 132 kV Switchyard	210	25-Aug-24	23-Mar-25																						
	 A1570 Excavation	40	25-Aug-24	04-Oct-24																						
	 A1580 Foundations of Switchyard Equipment	80	09-Sep-24	28-Nov-24																						
	 A1590 Installation of Switchyard Equipment	120	23-Nov-24	23-Mar-25																						
	 132 kV Transmission Line & Interconnection	705	25-May-23	29-Apr-25																						
	 A1600 Excavation of Tower Foundations & Backfilling	325	25-May-23	14-Apr-24																						
	 A1620 Concreting of Tower Foundations	325	13-Aug-23	03-Jul-24																						
	 A1630 Erection of Towers	450	12-Oct-23	04-Jan-25																						
	 A1640 Stringing of 132 kV lines	300	19-May-24	15-Mar-25																						
	 A1650 Interconnection Works	45	15-Mar-25	29-Apr-25																						
	 Commissioning & Testing	60	01-May-25	30-Jun-25																						
	 A1670 Commissioning and Testing	60	01-May-25	30-Jun-25																						