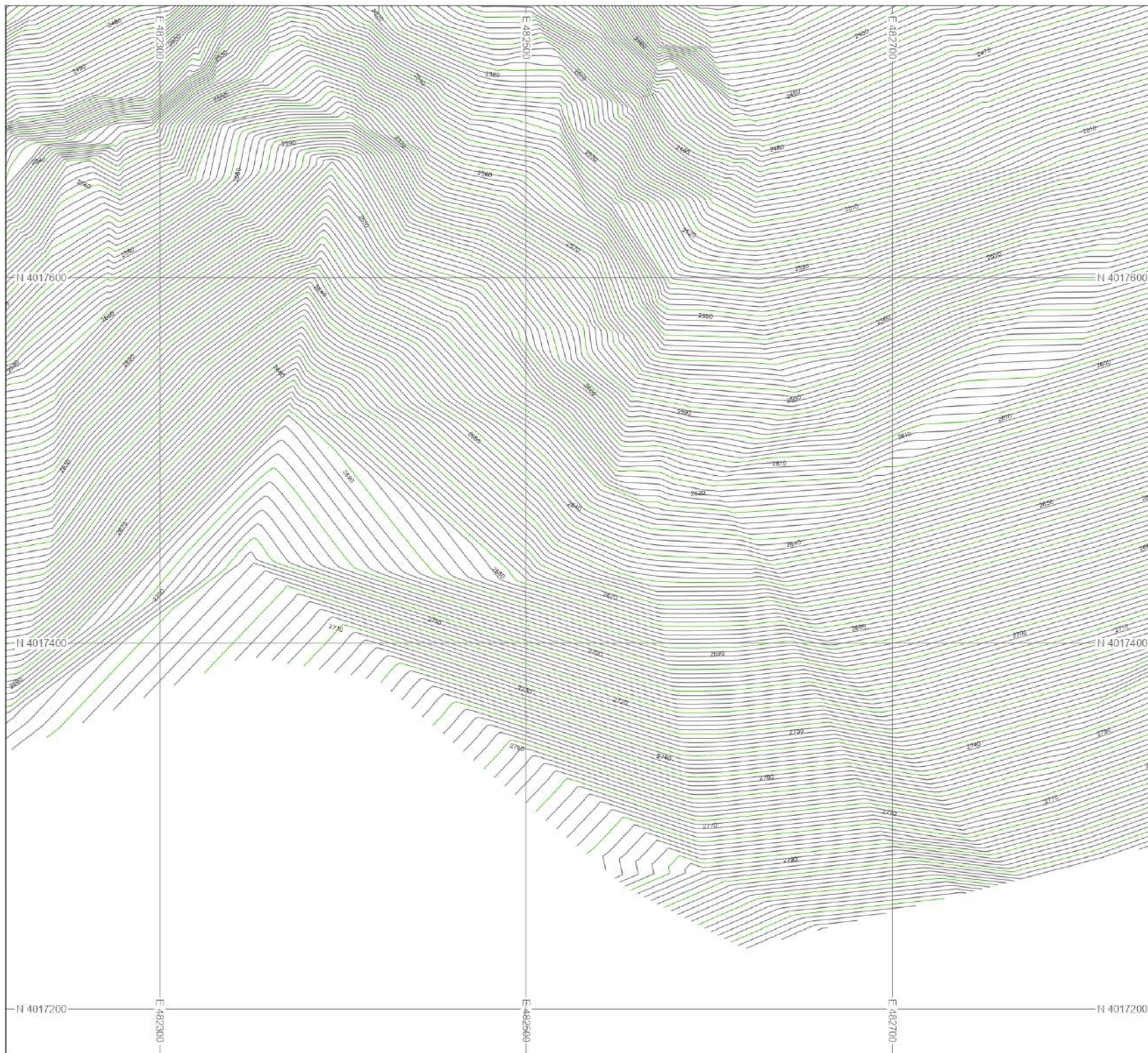




## KEY PLAN

|          |    |    |    |   |   |   |
|----------|----|----|----|---|---|---|
| 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
- 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**

DRAWN

TITLE

**PROJECT AREA  
TOPOGRAPHIC SURVEY**  
(Sheet 12 of 20)

CHECKED

APPROVED

DATE

SCALE

DWG No.

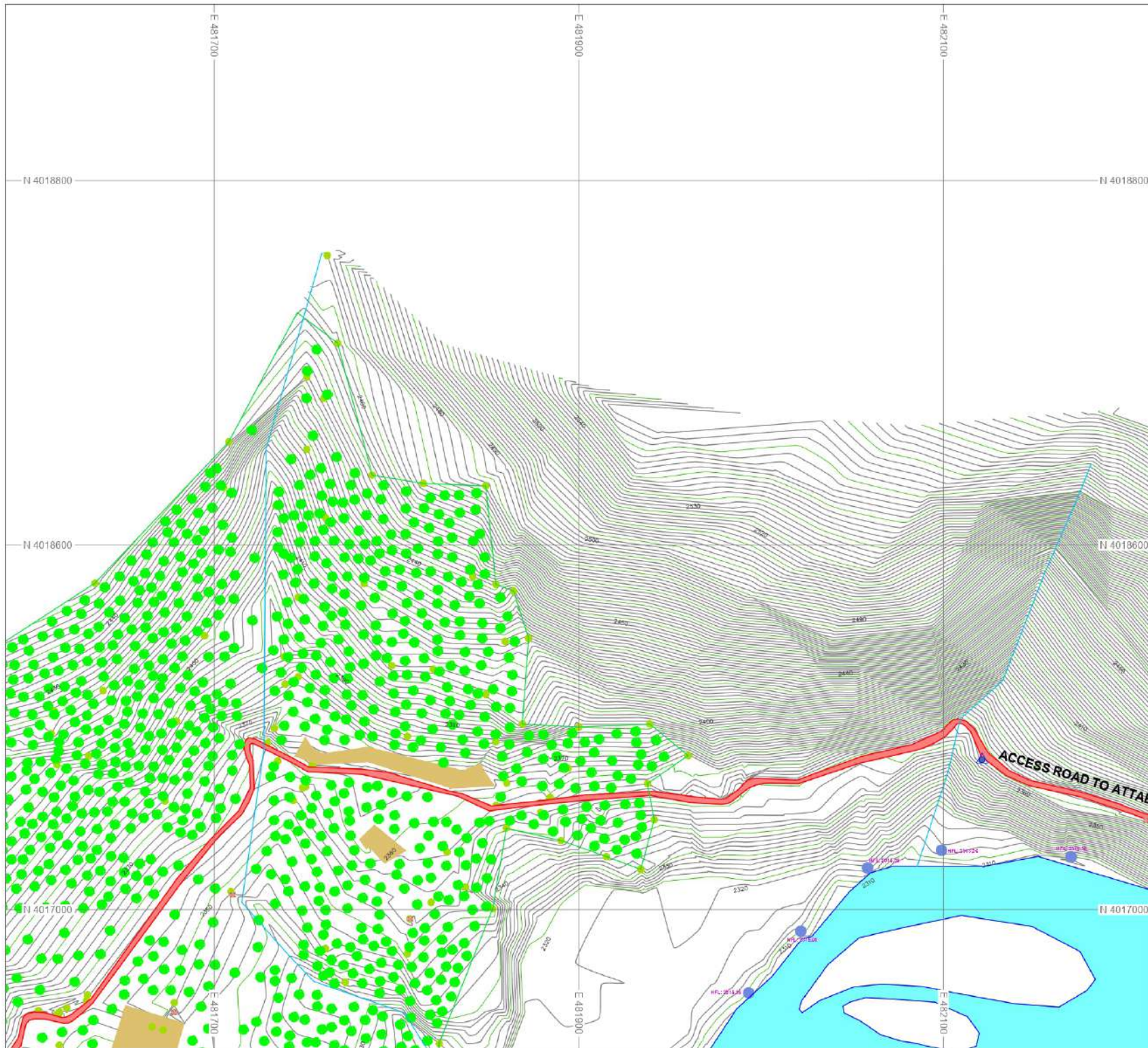
REVISIONS

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-213



## 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
- 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 BY

PROJECT

**ATTABAD LAKE HPP**  
**FEASIBILITY STUDY REPORT**

DRAWN BY

TITLE

**PROJECT AREA**  
**TOPOGRAPHIC SURVEY**  
(Sheet 13 of 20)

CHECKED BY

DATE

SCALE

DWG No.

REVISIONS

APPROVED BY

DATE

SCALE

DWG No.

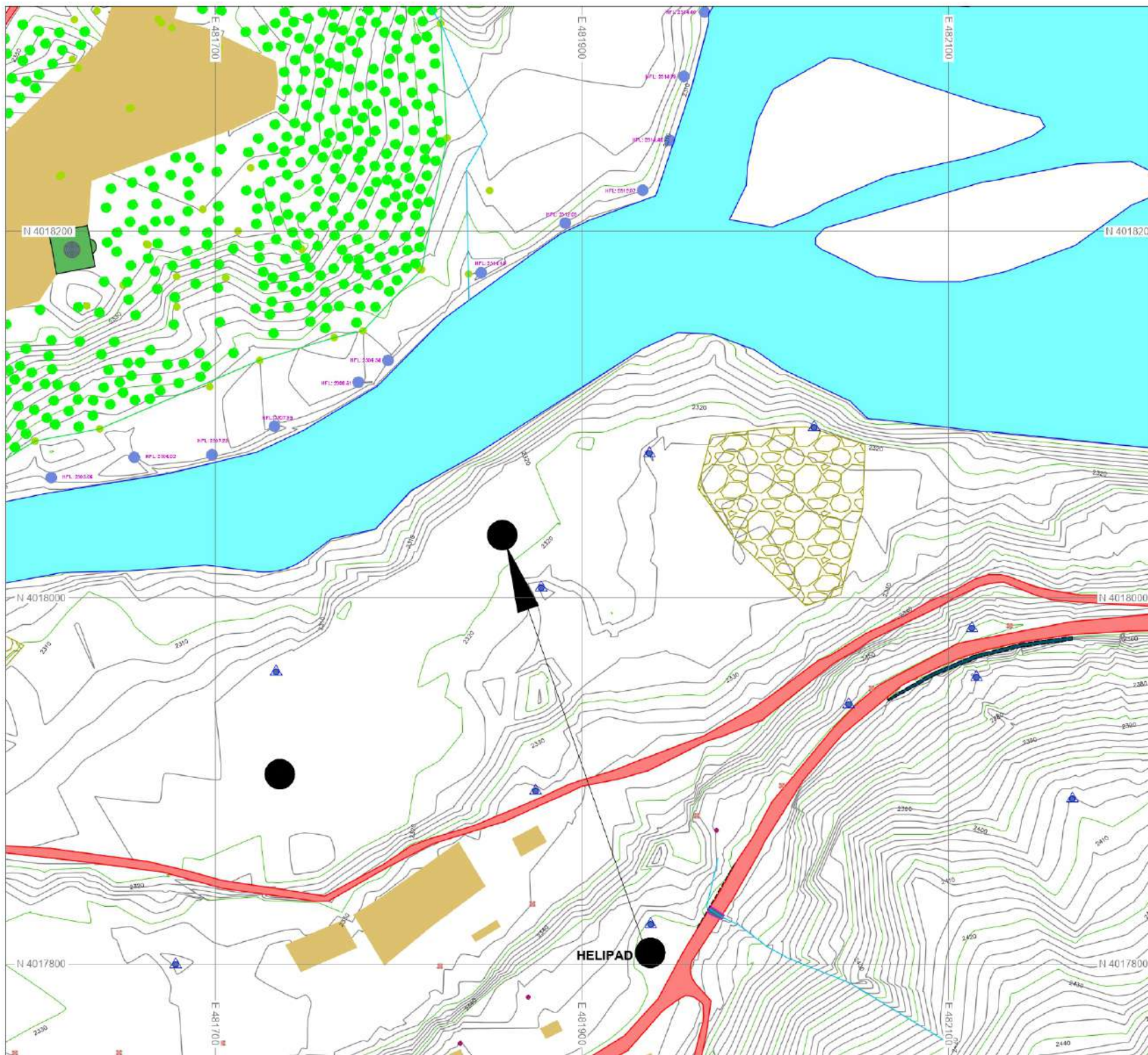
REVISIONS

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-214



## 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
- BRIDGE AND CULVERT
- BOULDERS
- WATER TANK
- SPRING
- JAMAT KHANA
- HFL
- HELIPAD
- SLIDING
- ROCK



## NOTE

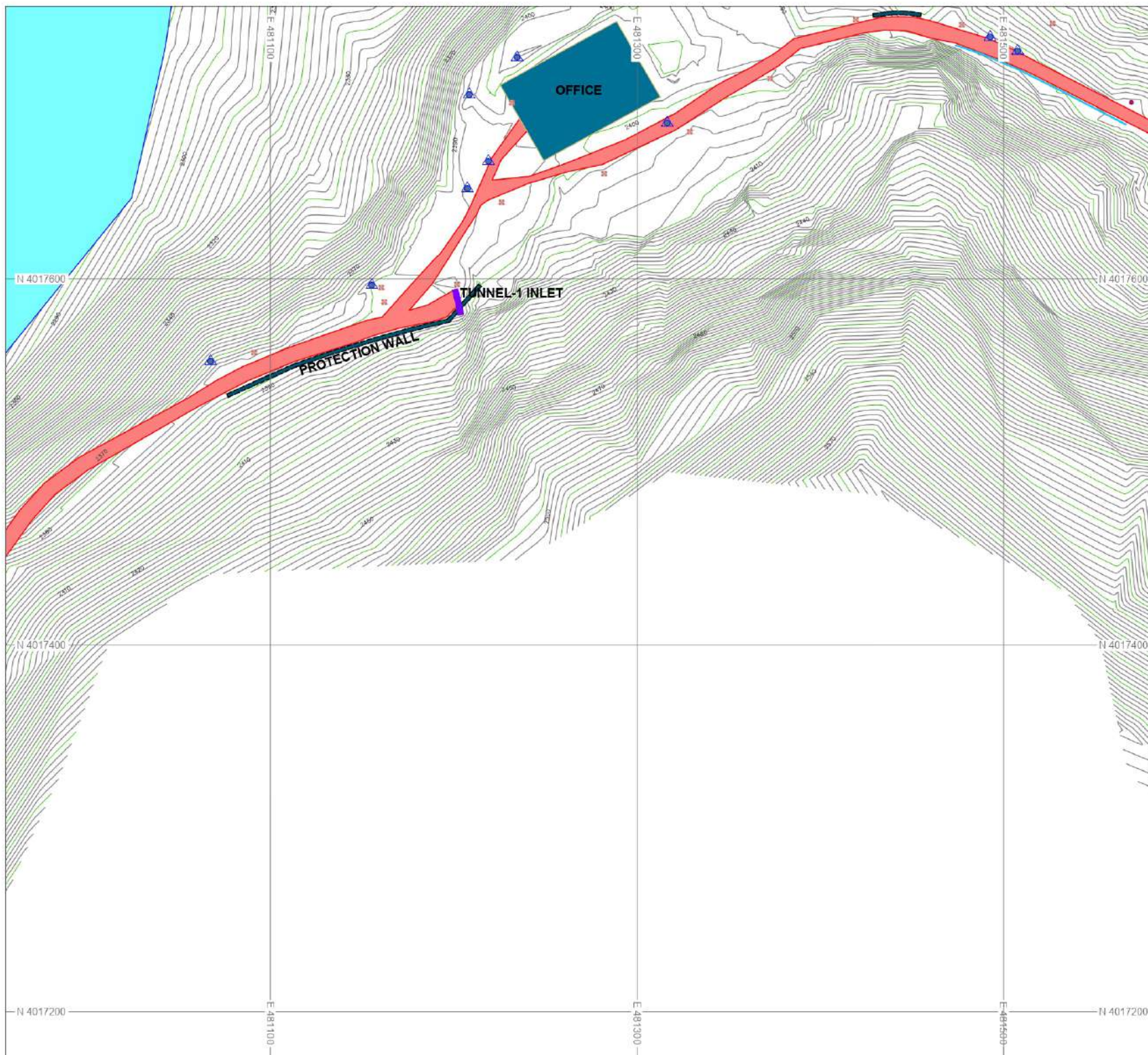
1. ALL THE UNITS ARE IN METERS UNLESS OTHERWISE NOTED
2. SURVEY OF PAKISTAN (SOP) METRIC COORDINATE SYSTEM WAS USED FOR FILED OBSERVATIONS

**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
**HYDRO PLANNING ORGANIZATION**

**ATTABAD LAKE HPP**  
**FEASIBILITY STUDY REPORT**

**PROJECT AREA**  
**TOPOGRAPHIC SURVEY**  
 (Sheet 14 of 20)

| APPROVED    | DATE      | SCALE     | DWG No.    | REVISIONS |
|-------------|-----------|-----------|------------|-----------|
| Abid Sheikh | Jun: 2021 | 1 : 2,000 | AFS-TS-215 |           |



### KEY PLAN

|    |    |    |    |   |   |
|----|----|----|----|---|---|
|    |    |    |    | 4 | 1 |
|    | 16 | 13 | 10 | 7 | 5 |
|    | 17 | 14 | 11 | 8 | 6 |
| 19 | 18 | 15 | 12 | 9 | 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 FILED OBSERVATIONS.



**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
**HYDRO PLANNING ORGANIZATION**

PREPARED

PROJECT

**ATTABAD LAKE HPP**  
**FEASIBILITY STUDY REPORT**

Ehsan

DRAWN

**PROJECT AREA**  
**TOPOGRAPHIC SURVEY**  
(Sheet 18 of 20)

Arshad

CHECKED

Ehsan

APPROVED

DATE

SCALE

DWG No.

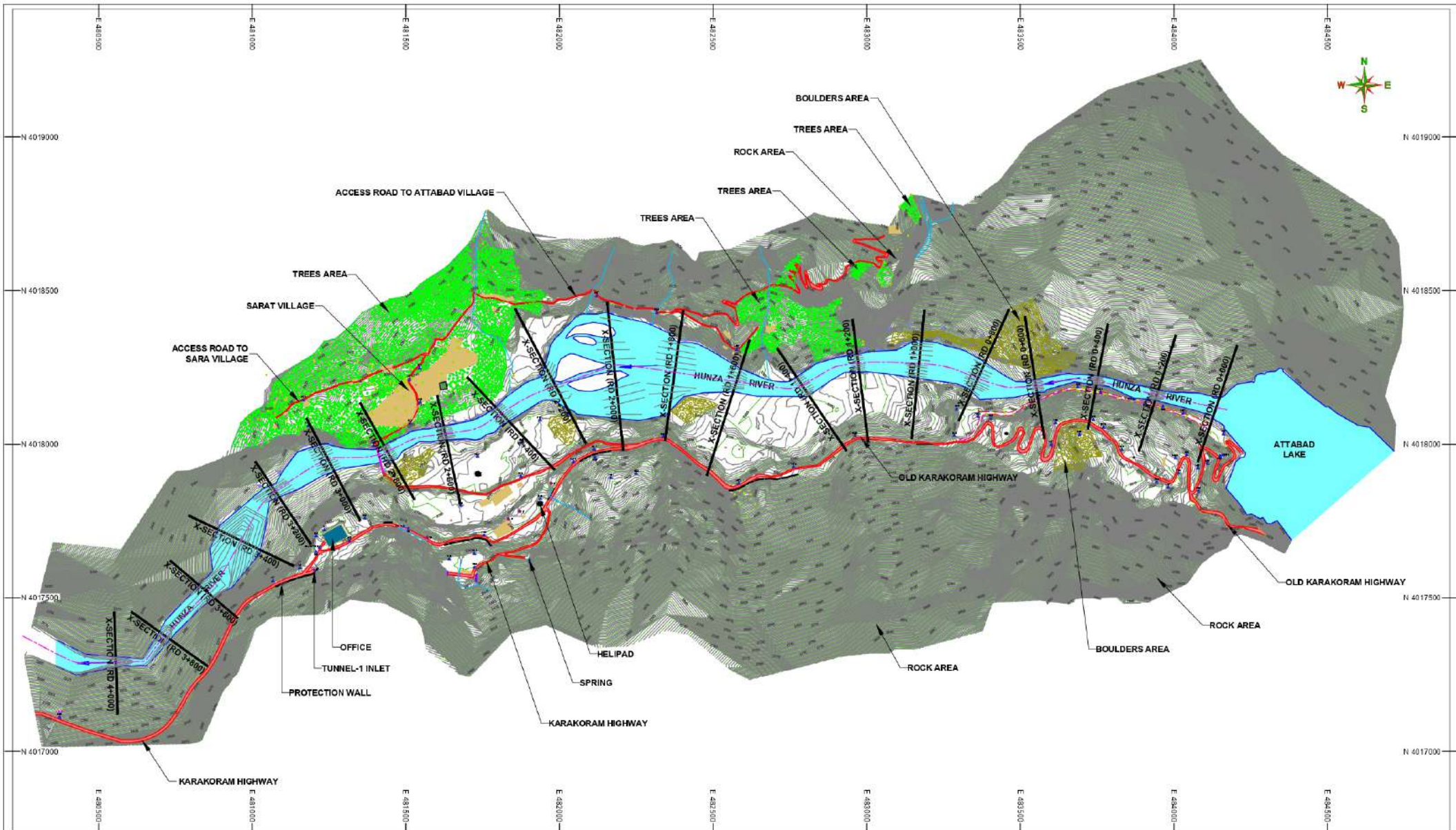
REVISIONS

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-219



### LEGENDS:

|                   |  |                      |  |
|-------------------|--|----------------------|--|
| RIVER/NALLA       |  | ELECTRIC POLE/T POLE |  |
| HOUSES/SHOPS      |  | RETAINING WALL       |  |
| ROAD              |  | TREES AREA           |  |
| KATCHA ROAD/TRACK |  | DRAIN AND NULLAH     |  |
| CONTROL POINTS    |  | BRIDGE AND CULVERT   |  |
| CONTOURS          |  | BOULDERS             |  |
|                   |  | X-SECTION (RD 1+200) |  |

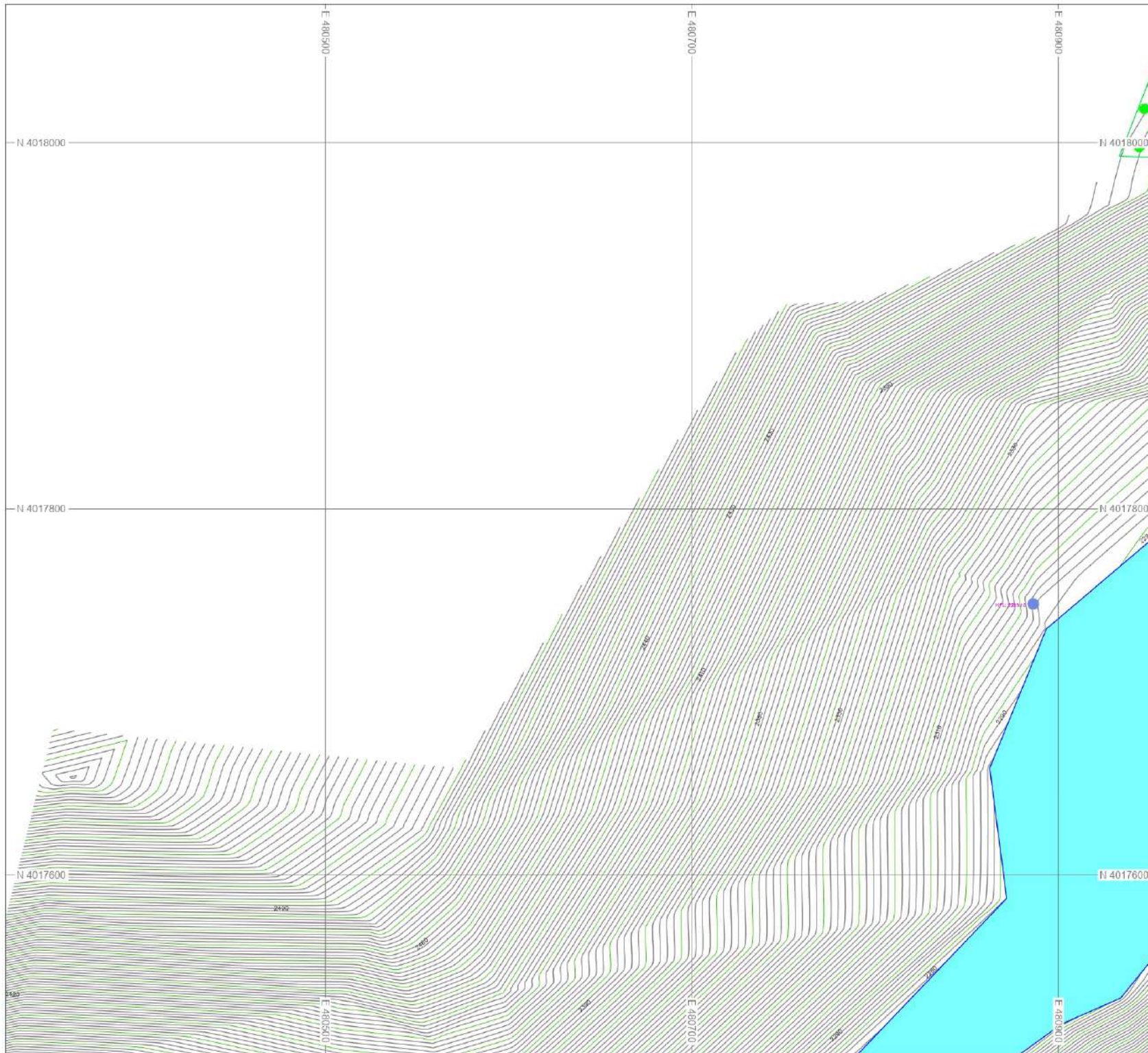
|             |  |
|-------------|--|
| WATER TANK  |  |
| SPRING      |  |
| JAMAT KHANA |  |
| HFL         |  |
| HELLIPAD    |  |
| SLIDING     |  |
| ROCK        |  |



### NOTE:

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

|                                    |           |                                                       |            |
|------------------------------------|-----------|-------------------------------------------------------|------------|
|                                    |           | <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b> |            |
| <b>HYDRO PLANNING ORGANIZATION</b> |           |                                                       |            |
| PREPARED                           | PROJECT   | <b>ATTABAD LAKE HPP</b>                               |            |
| Drawn                              | TITLE     | <b>FEASIBILITY STUDY REPORT</b>                       |            |
| Arshad                             |           | <b>PROJECT AREA</b>                                   |            |
| CHECKED                            |           | <b>CROSS SECTION PLAN</b>                             |            |
| APPROVED                           | DATE      | SCALE                                                 | DWG No.    |
| Abid Sheikh                        | Jun. 2021 | 1 : 12,000                                            | AFS-CS-231 |
|                                    |           | 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
- 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
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- JAMAT KHANA
- HFL
- HELIPAD
- SLIDING
- ROCK



## NOTE

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2. SURVEY OF PAKISTAN (SOP) METRIC COORDINATE SYSTEM WAS USED FOR FILED OBSERVATIONS.



**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
HYDRO PLANNING ORGANIZATION

PREPARED BY

**ATTABAD LAKE HPP**  
**FEASIBILITY STUDY REPORT**

DRAWN BY

**PROJECT AREA**  
**TOPOGRAPHIC SURVEY**  
(Sheet 19 of 20)

CHECKED BY

APPROVED BY

DATE

SCALE

DWG No.

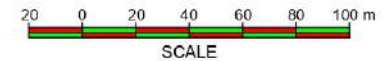
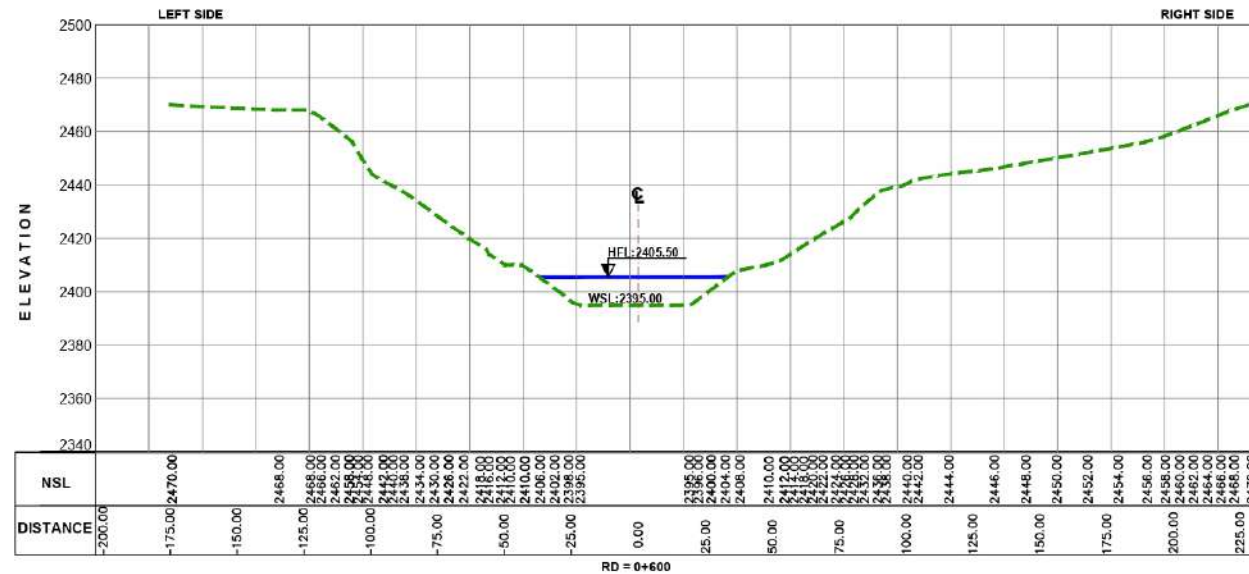
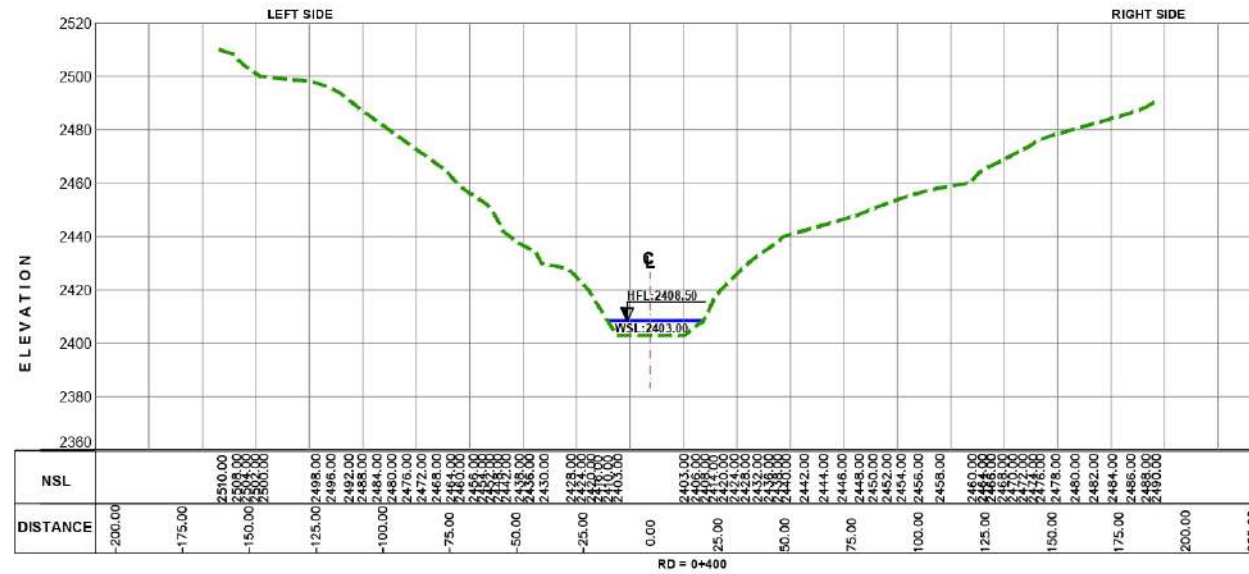
REVISIONS

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-220



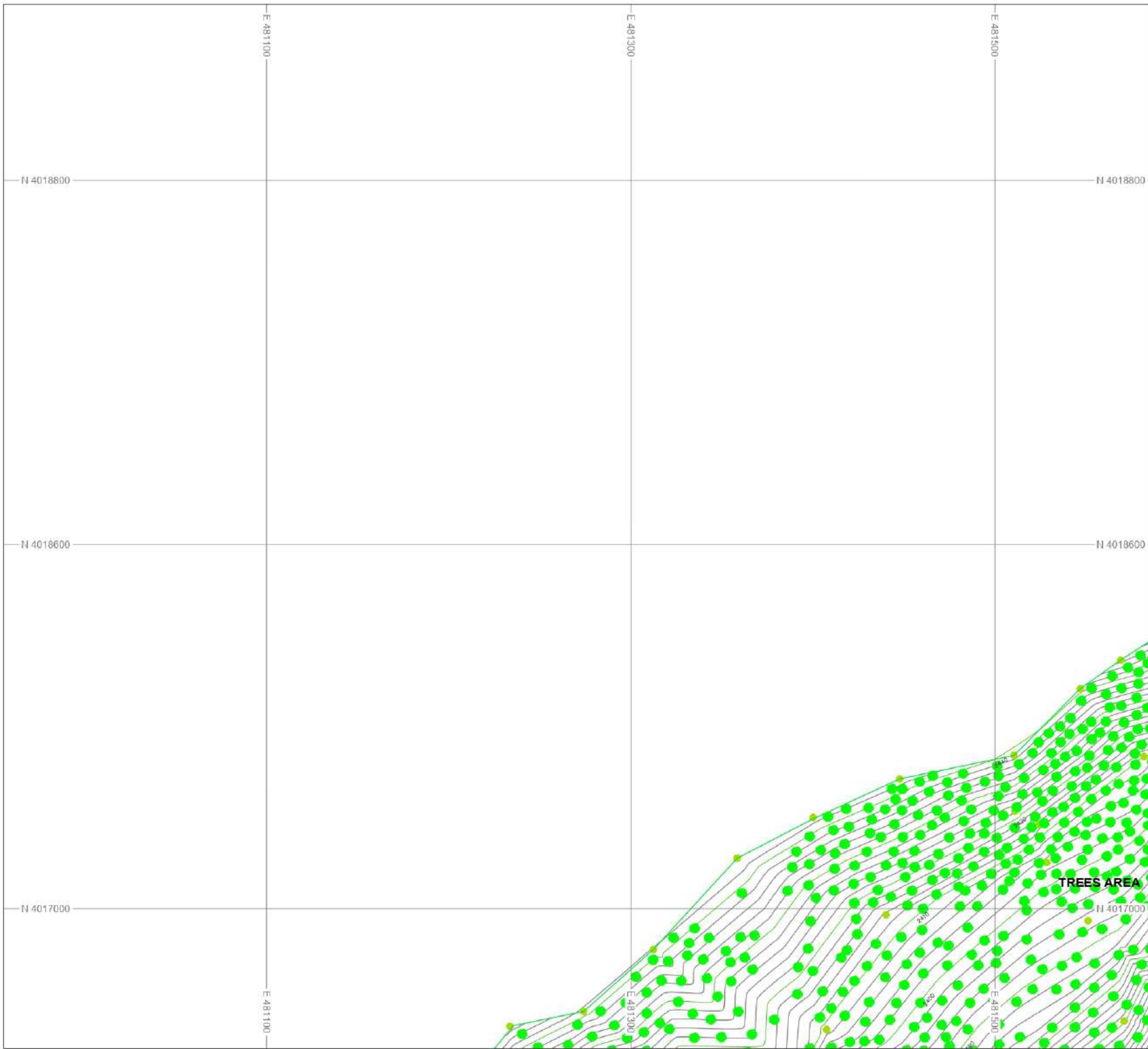
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
HYDRO PLANNING ORGANIZATION

|             |           |                                 |            |           |
|-------------|-----------|---------------------------------|------------|-----------|
| PREPARED    | PROJECT   | <b>ATTABAD LAKE HPP</b>         |            |           |
| DRAWN       | TITLE     | <b>FEASIBILITY STUDY REPORT</b> |            |           |
| CHECKED     |           | <b>HUNZA RIVER</b>              |            |           |
| APPROVED    | DATE      | SCALE                           | DWG No.    | REVISIONS |
| Abid Sheikh | Jun: 2021 | 1 : 2,000                       | AFS-CS-233 |           |

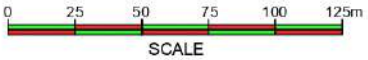


**KEY PLAN**

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

**LEGENDS:**

- RIVER/NALLA
- 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 FILED OBSERVATIONS.



**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
**HYDRO PLANNING ORGANIZATION**

PREPARED

PROJECT

DRAWN

TITLE

CHECKED

APPROVED

DATE

Abid Sheikh

Jun: 2021

SCALE

1 : 2,000

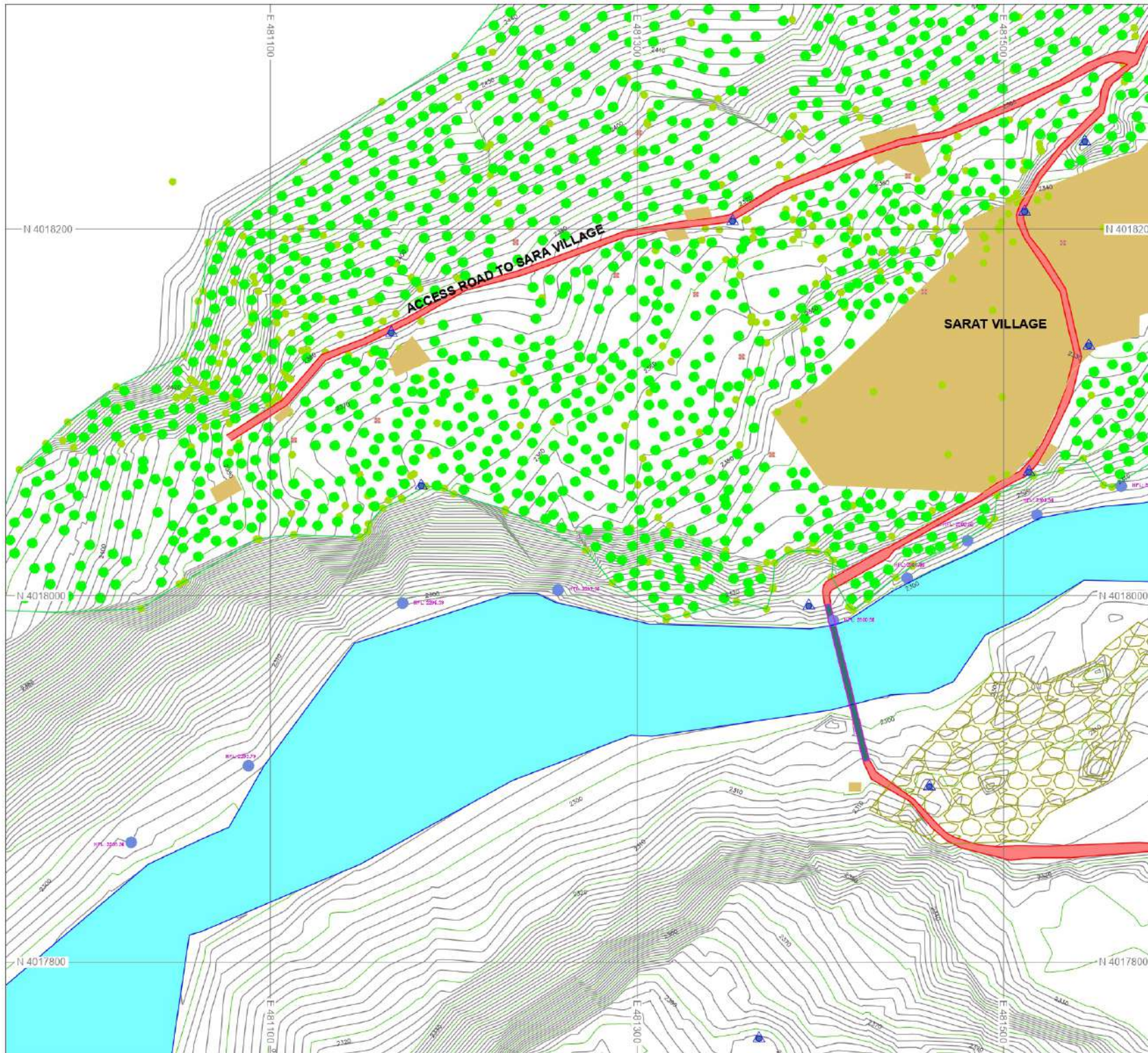
DWG No.

AFS-TS-217

REVISIONS

**ATTABAD LAKE HPP**  
**FEASIBILITY STUDY REPORT**

**PROJECT AREA**  
**TOPOGRAPHIC SURVEY**  
(Sheet 16 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



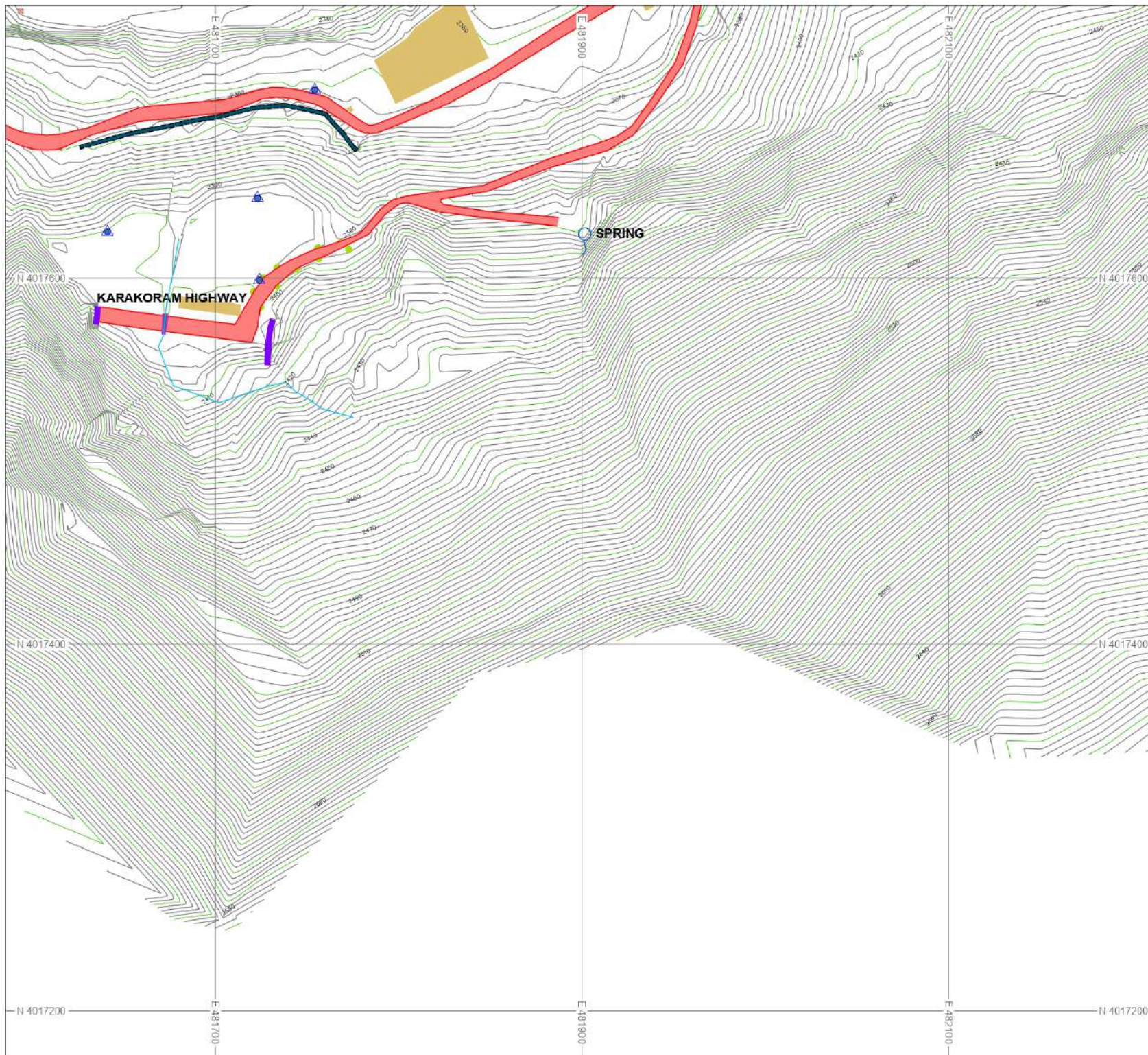
### NOTE

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   | <b>ATTABAD LAKE HPP<br/>FEASIBILITY STUDY REPORT</b>           |            |           |
| Drawn    | TITLE     |                                                                |            |           |
| Arshad   | CHECKED   | <b>PROJECT AREA<br/>TOPOGRAPHIC SURVEY</b><br>(Sheet 17 of 20) |            |           |
| Arshad   | DATE      |                                                                |            |           |
| Arshad   | DATE      | SCALE                                                          | DWG No.    | REVISIONS |
| Arshad   | Jun: 2021 | 1 : 2,000                                                      | AFS-TS-218 |           |



### 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  
BRIDGE AND CULVERT  
BOULDERS  
WATER TANK  
SPRING  
JAMAT KHANA  
HFL  
HELIPAD  
SLIDING  
ROCK



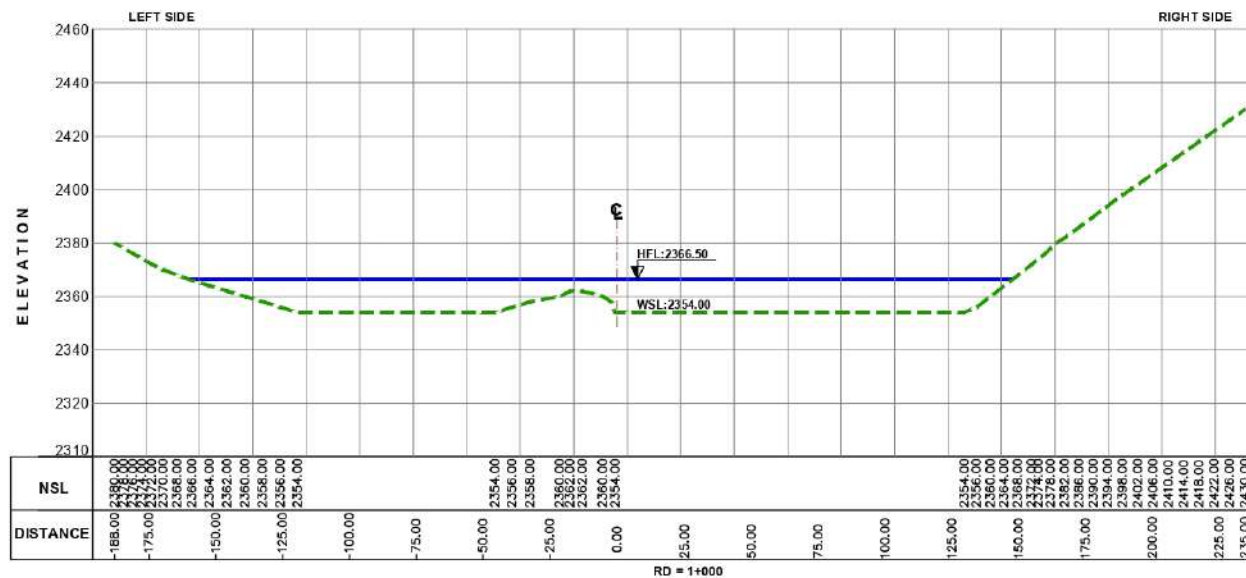
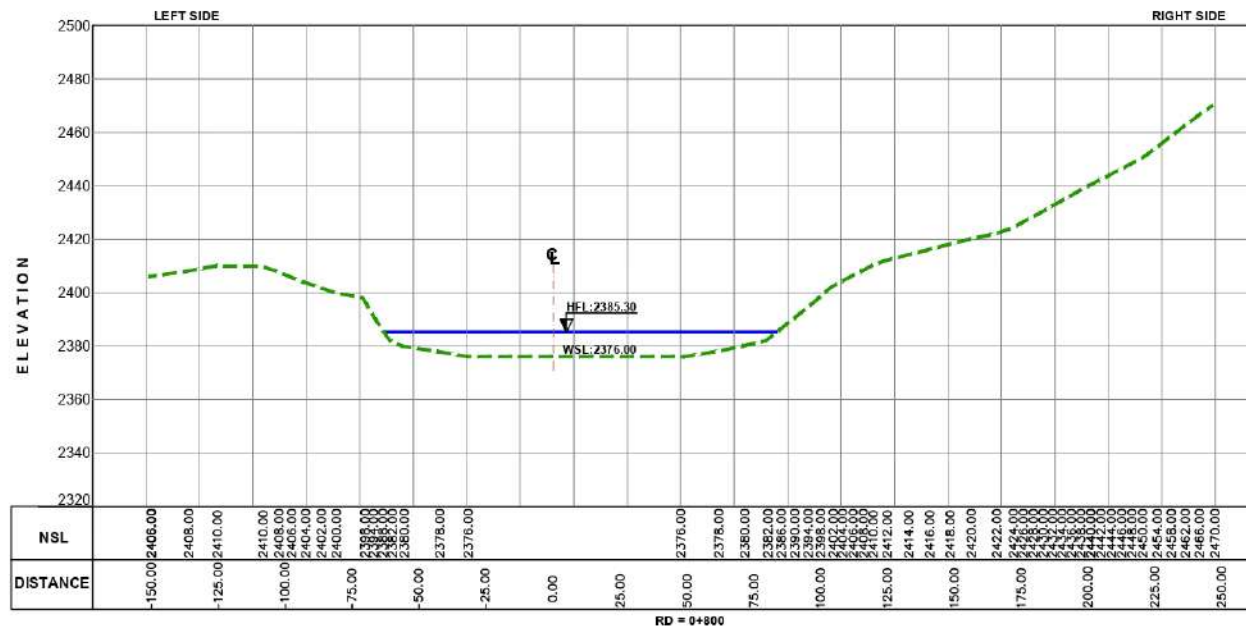
### NOTE

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**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
**HYDRO PLANNING ORGANIZATION**

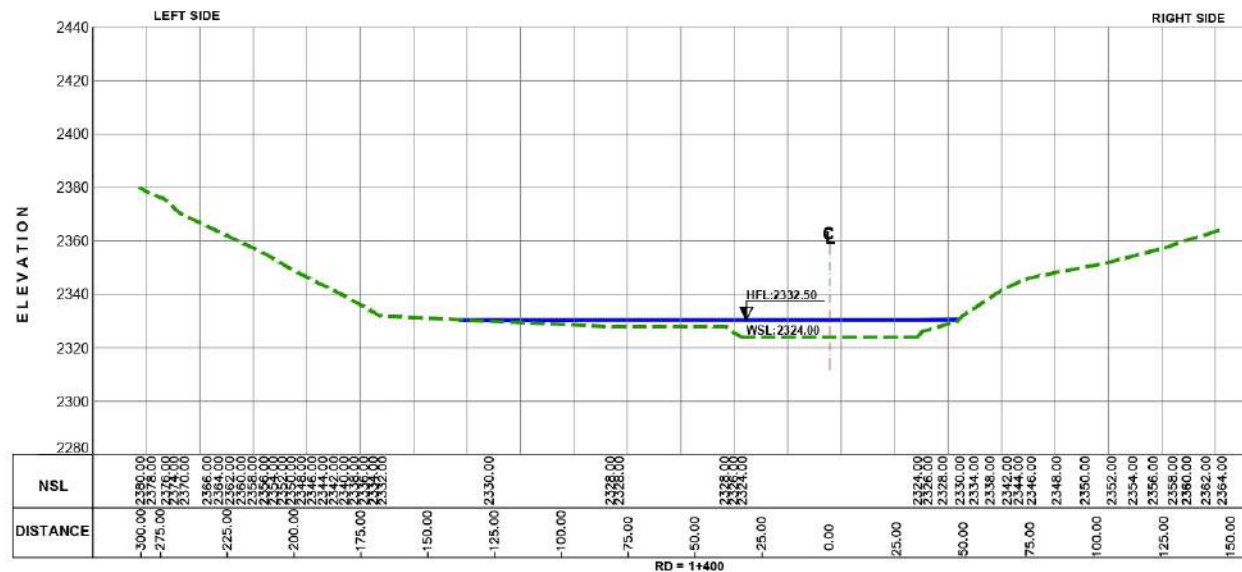
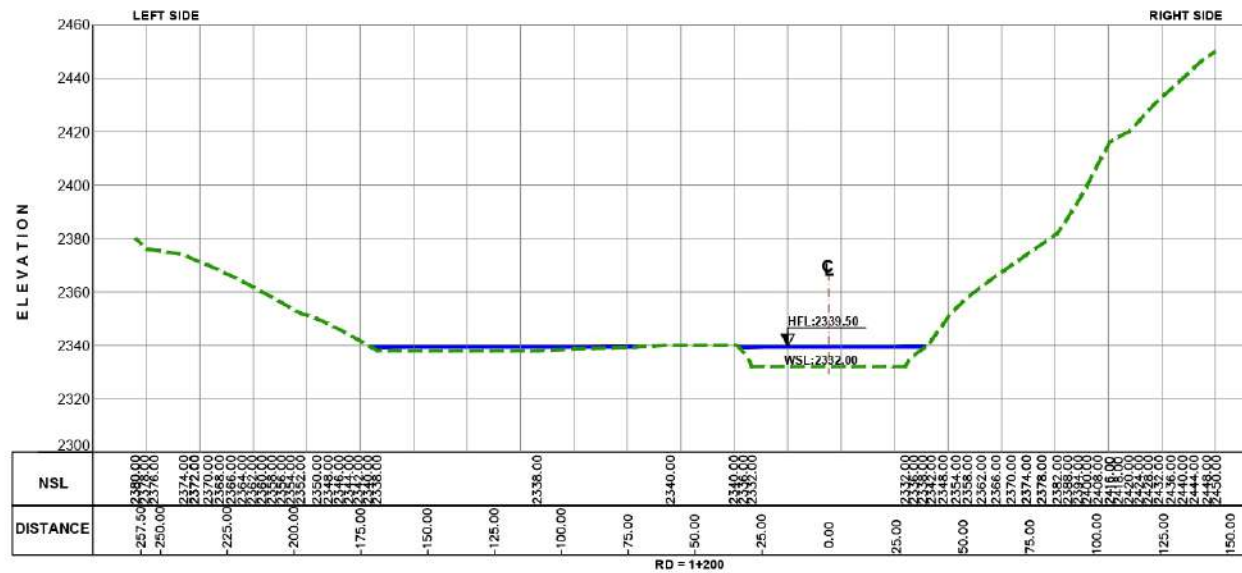
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|-------------|-----------|---------------------------------|------------|-----------|--|
| PREPARED    | PROJECT   | <b>ATTABAD LAKE HPP</b>         |            |           |  |
| Ehsan       |           | <b>FEASIBILITY STUDY REPORT</b> |            |           |  |
| DRAWN       | TITLE     | <b>PROJECT AREA</b>             |            |           |  |
| Arshad      |           | <b>TOPOGRAPHIC SURVEY</b>       |            |           |  |
| CHECKED     |           | <b>(Sheet 15 of 20)</b>         |            |           |  |
| Ehsan       | DATE      | SCALE                           | DWG No.    | REVISIONS |  |
| Abid Sheikh | Jun: 2021 | 1 : 2,000                       | AFS-TS-216 |           |  |



# NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

|                                                                                      |                                                                                                                                                        |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br>HYDRO PLANNING ORGANIZATION |                                                                                                                                                        |
| PREPARED<br>Ehsan<br>DRAWN<br>Arshad<br>CHECKED<br>Ehsan<br>APPROVED<br>Abid Sheikh  | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b><br><br><b>HUNZA RIVER</b><br><b>X - SECTION AT RD. 0+800 &amp; 1+000</b><br>(Sheet 3 of 10) |
| DATE<br>Jun: 2021                                                                    | SCALE<br>1 : 2,000                                                                                                                                     |
| DWG No.<br>AFS-CS-234                                                                | REVISIONS                                                                                                                                              |



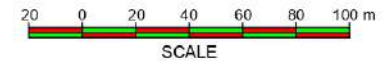
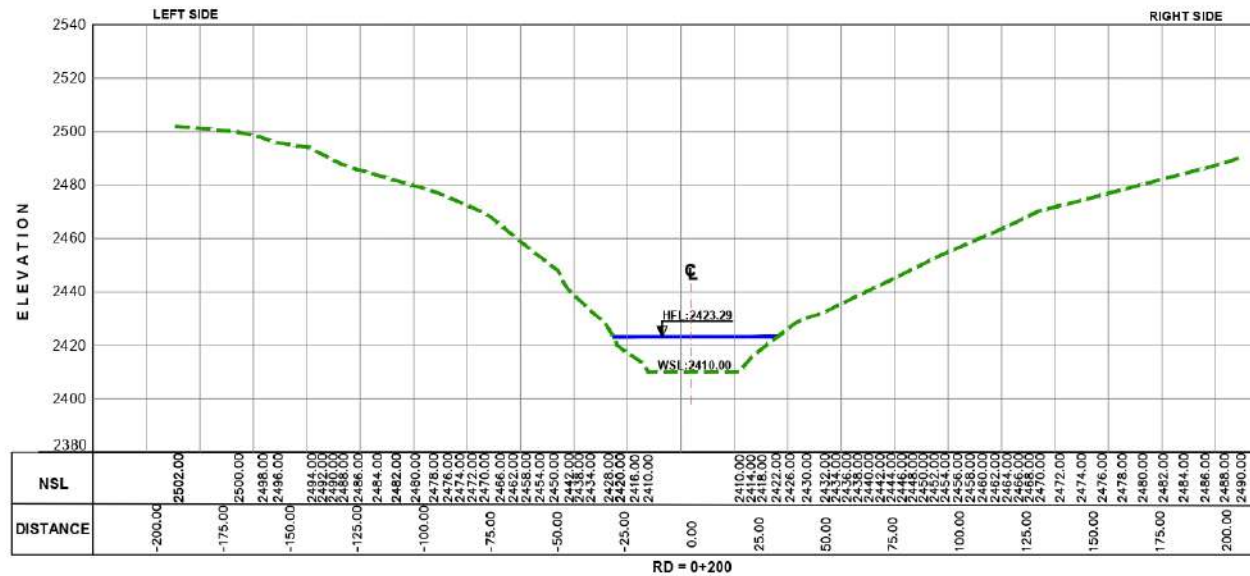
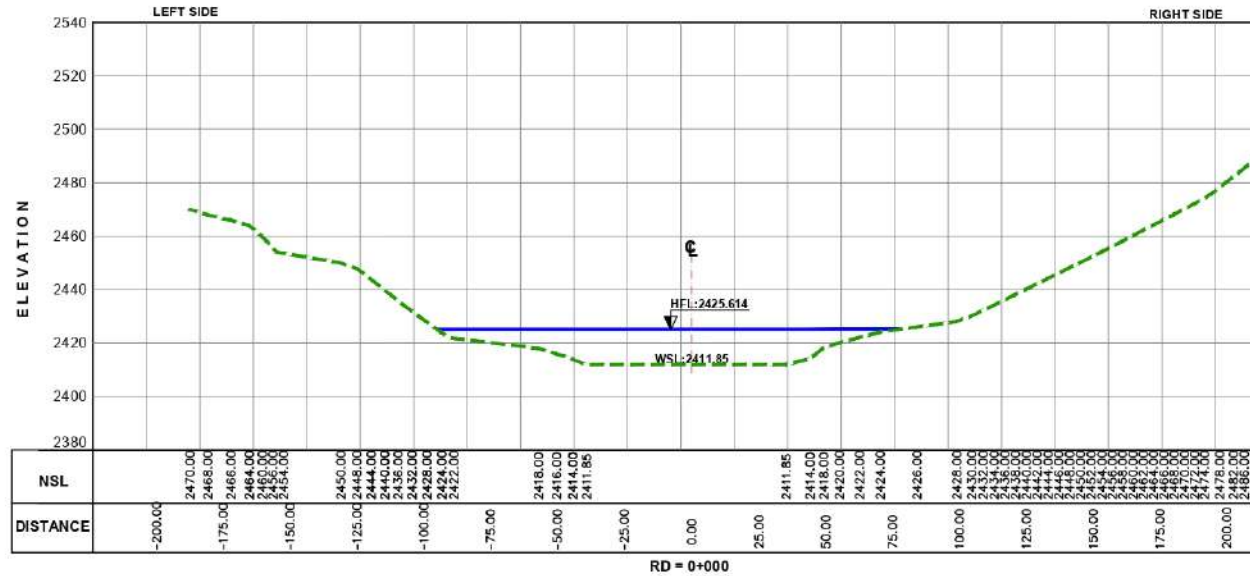
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
HYDRO PLANNING ORGANIZATION

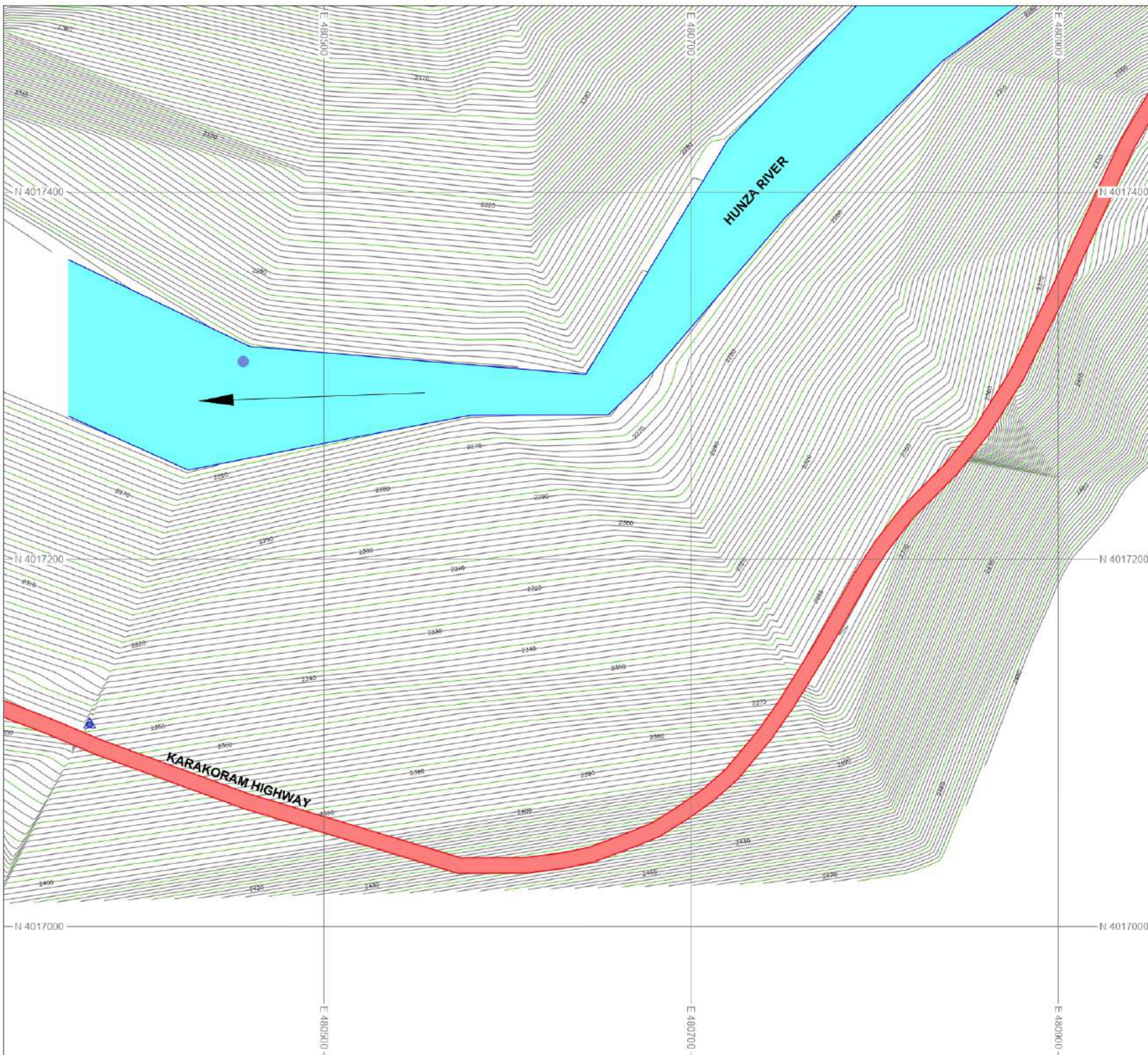
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| PREPARED    | PROJECT   | <b>ATTABAD LAKE HPP</b>         |            |           |
| DRAWN       | TITLE     | <b>FEASIBILITY STUDY REPORT</b> |            |           |
| CHECKED     |           | <b>HUNZA RIVER</b>              |            |           |
| APPROVED    | DATE      | SCALE                           | DWG No.    | REVISIONS |
| Abid Sheikh | Jun: 2021 | 1 : 2,000                       | AFS-CS-235 |           |



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

|                       |                                           |                                                                                             |                    |
|-----------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|--------------------|
|                       |                                           | <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                    |
|                       |                                           | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                  |                    |
| PREPARED<br>Ehsan     | PROJECT<br>Hunza River                    | <b>HUNZA RIVER</b><br><b>X - SECTION AT RD. 0+000 &amp; 0+200</b><br>(Sheet 1 of 10)        |                    |
| DRAWN<br>Arshad       | TITLE<br>X - SECTION AT RD. 0+000 & 0+200 | (Sheet 1 of 10)                                                                             |                    |
| CHECKED<br>Ehsan      | APPROVED<br>Abid Sheikh                   | DATE<br>Jun: 2021                                                                           | SCALE<br>1 : 2,000 |
| DWG No.<br>AFS-CS-232 |                                           | REVISIONS                                                                                   |                    |



## KEY PLAN

|    |    |    |    |   |   |
|----|----|----|----|---|---|
|    |    |    |    | 4 | 1 |
|    | 16 | 13 | 10 | 7 | 5 |
|    | 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



## 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 BY

**ATTABAD LAKE HPP**  
**FEASIBILITY STUDY REPORT**

Drawn

**PROJECT AREA**  
**TOPOGRAPHIC SURVEY**  
(Sheet 20 of 20)

Checked

Approved

DATE

SCALE

DWG No.

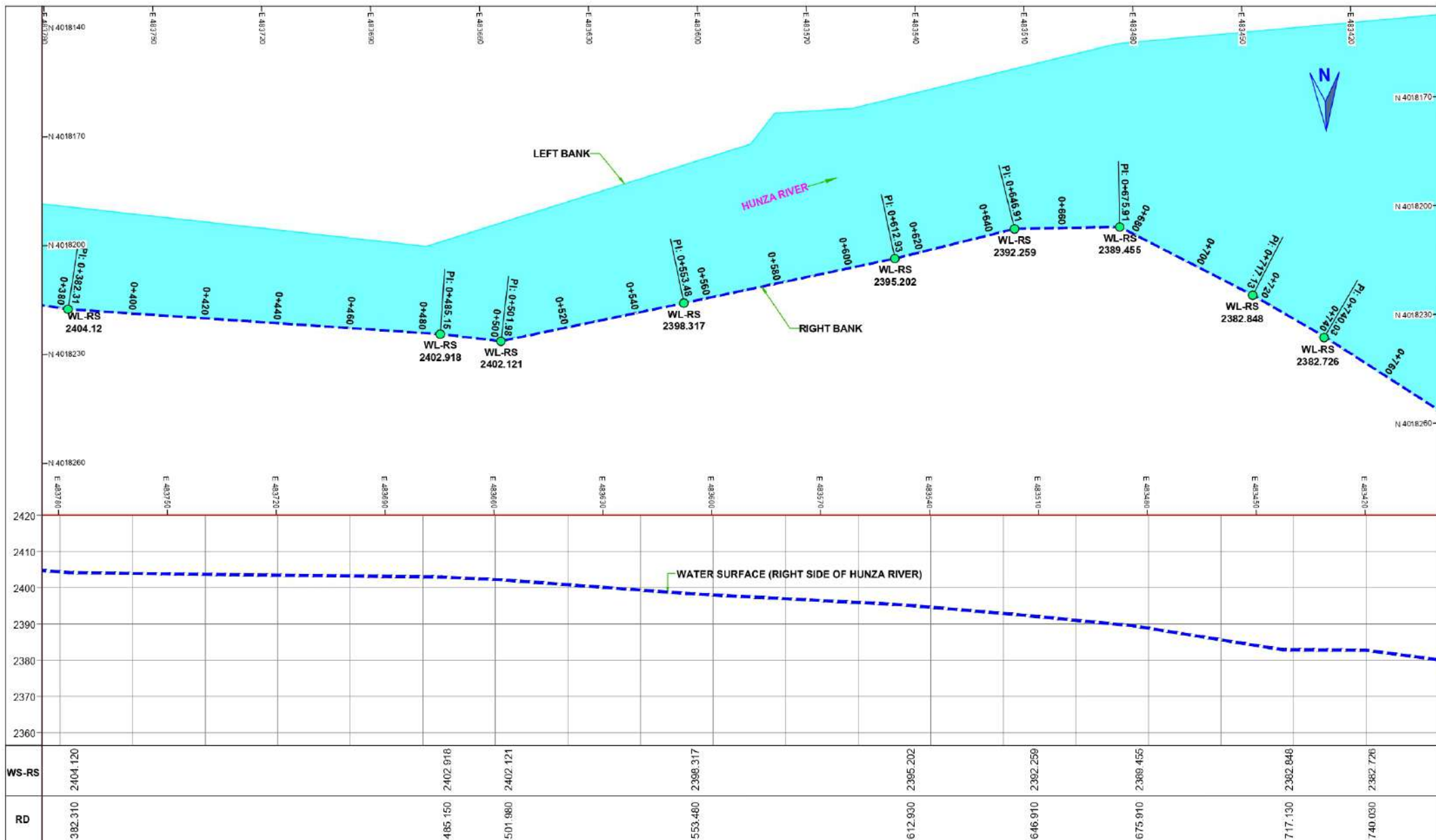
REVISIONS

Abid Sheikh

Jun: 2021

1 : 2,000

AFS-TS-221

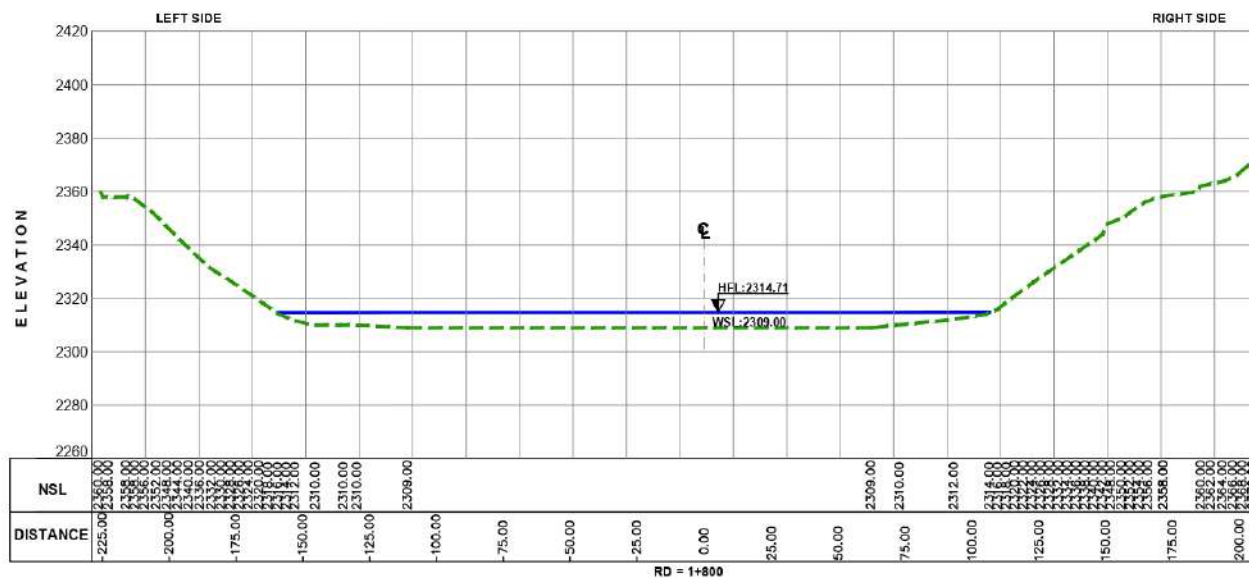
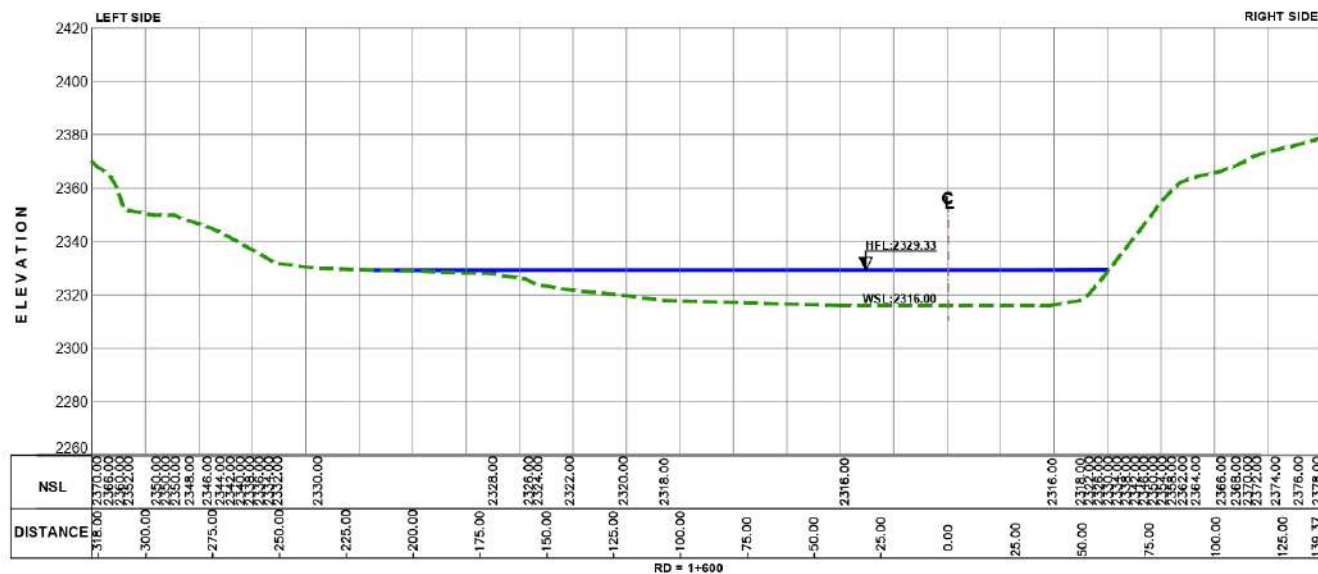


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



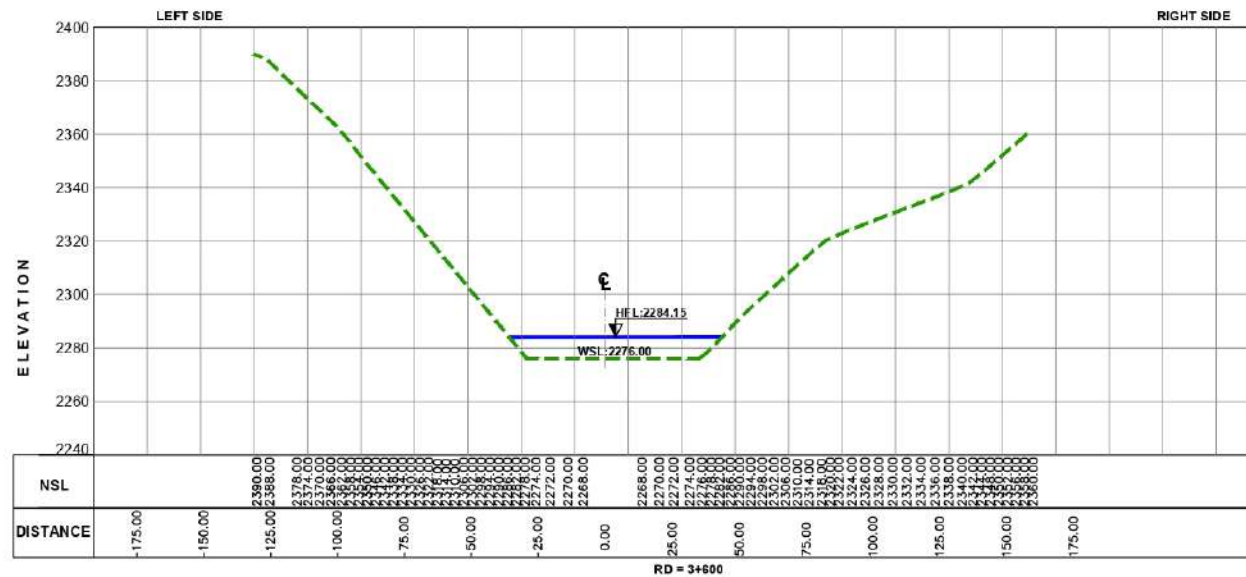
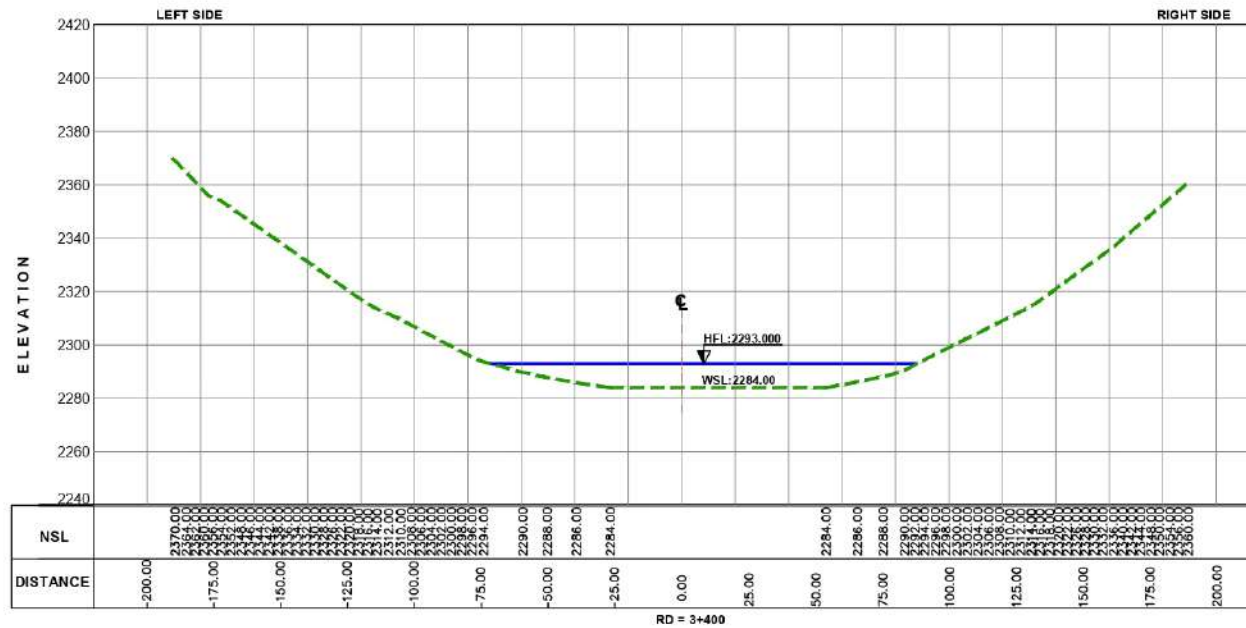
|                                                                                             |           |                                                                                            |            |
|---------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |           |                                                                                            |            |
| PREPARED                                                                                    | PROJECT   | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                 |            |
| DRAWN                                                                                       | TITLE     | <b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 2 of 11) |            |
| CHECKED                                                                                     |           |                                                                                            |            |
| APPROVED                                                                                    | DATE      | SCALE                                                                                      | DWG No.    |
| Abid Sheikh                                                                                 | Jun: 2021 | 1 : 1,000                                                                                  | AFS-SP-252 |
|                                                                                             |           | REVISIONS                                                                                  |            |



#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

|                                                                                                                                                                                   |                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                                                                                                                                                        |
| PREPARED                                                                                                                                                                          | PROJECT                                                                                                                                                |
| Ehsan<br>DRAWN<br>Arshad<br>CHECKED                                                                                                                                               | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b><br><br><b>HUNZA RIVER</b><br><b>X - SECTION AT RD. 1+600 &amp; 1+800</b><br>(Sheet 5 of 10) |
| APPROVED                                                                                                                                                                          | DATE                                                                                                                                                   |
| Abid Sheikh                                                                                                                                                                       | Jun: 2021                                                                                                                                              |
| SCALE                                                                                                                                                                             | DWG No.                                                                                                                                                |
| 1 : 2,000                                                                                                                                                                         | AFS-CS-236                                                                                                                                             |
| REVISIONS                                                                                                                                                                         |                                                                                                                                                        |



# NOTE:

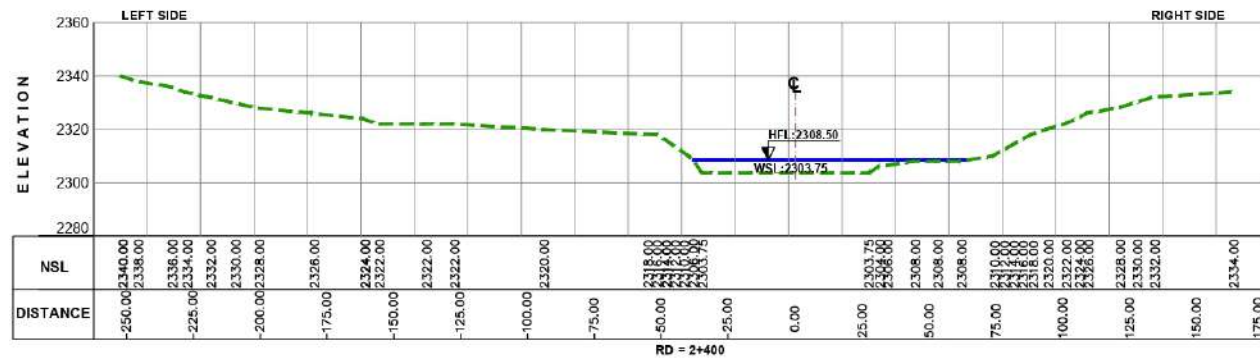
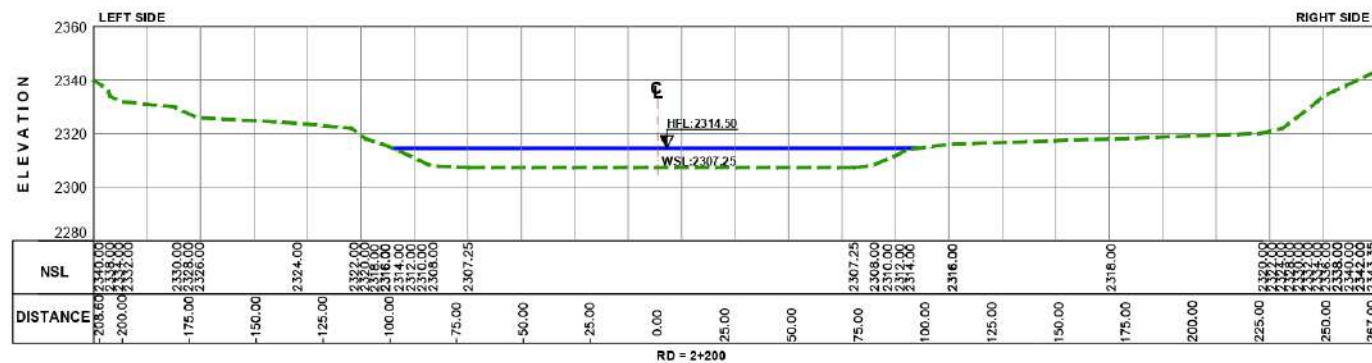
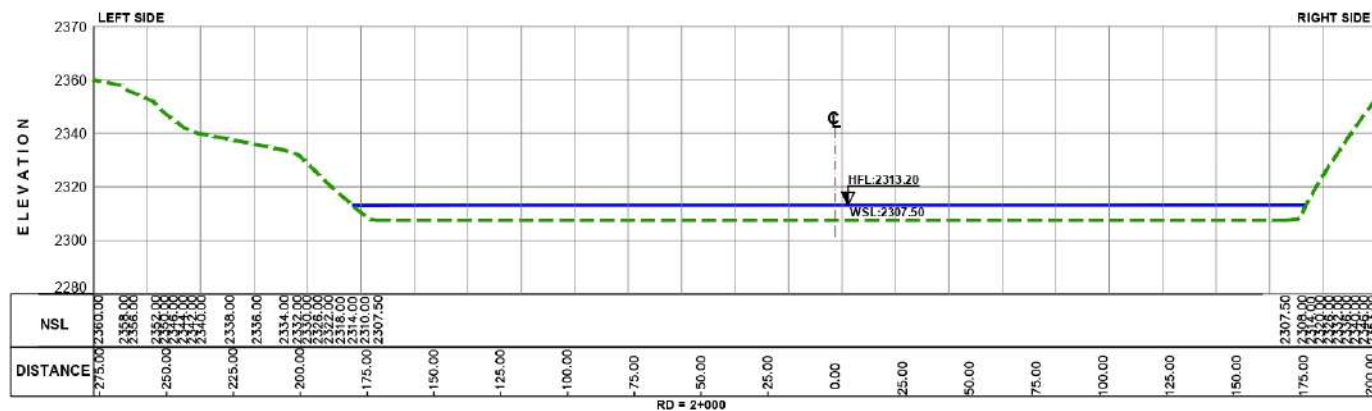
- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY  
HYDRO PLANNING ORGANIZATION

| PREPARED    | PROJECT   | ATTABAD LAKE HPP<br>FEASIBILITY STUDY REPORT |
|-------------|-----------|----------------------------------------------|
| Ehsan       | TITLE     |                                              |
| Arshad      | CHECKED   |                                              |
| Ehsan       | DATE      |                                              |
| Abid Sheikh | Jun: 2021 |                                              |

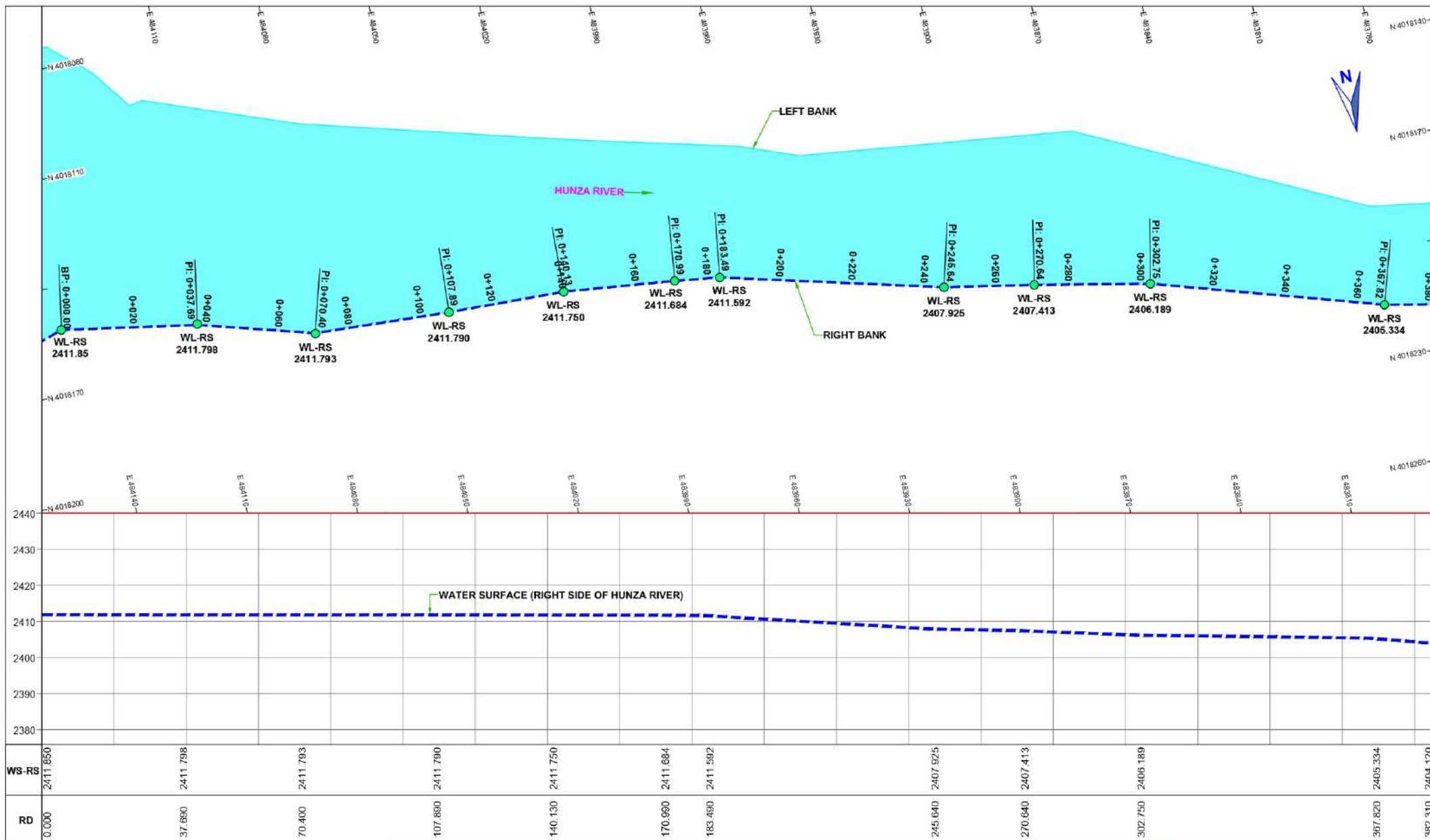
| SCALE     | DWG No.    | REVISIONS |
|-----------|------------|-----------|
| 1 : 2,000 | AFS-CS-240 |           |



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

|                    |                        |                                                                                             |                   |
|--------------------|------------------------|---------------------------------------------------------------------------------------------|-------------------|
|                    |                        | <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                   |
|                    |                        | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                  |                   |
| PREPARED<br>Ehsan  | PROJECT<br>Hunza River | TITLE<br><b>X - SECTION AT RD. 2+000, 2+200</b><br><b>AND RD. 2+400</b><br>(Sheet 6 of 10)  |                   |
| DRAWN<br>Arshad    | CHECKED<br>Ehsan       | APPROVED<br>Abid Sheikh                                                                     | DATE<br>Jun: 2021 |
| SCALE<br>1 : 2,000 |                        | DWG No.<br>AFS-CS-237                                                                       | REVISIONS         |

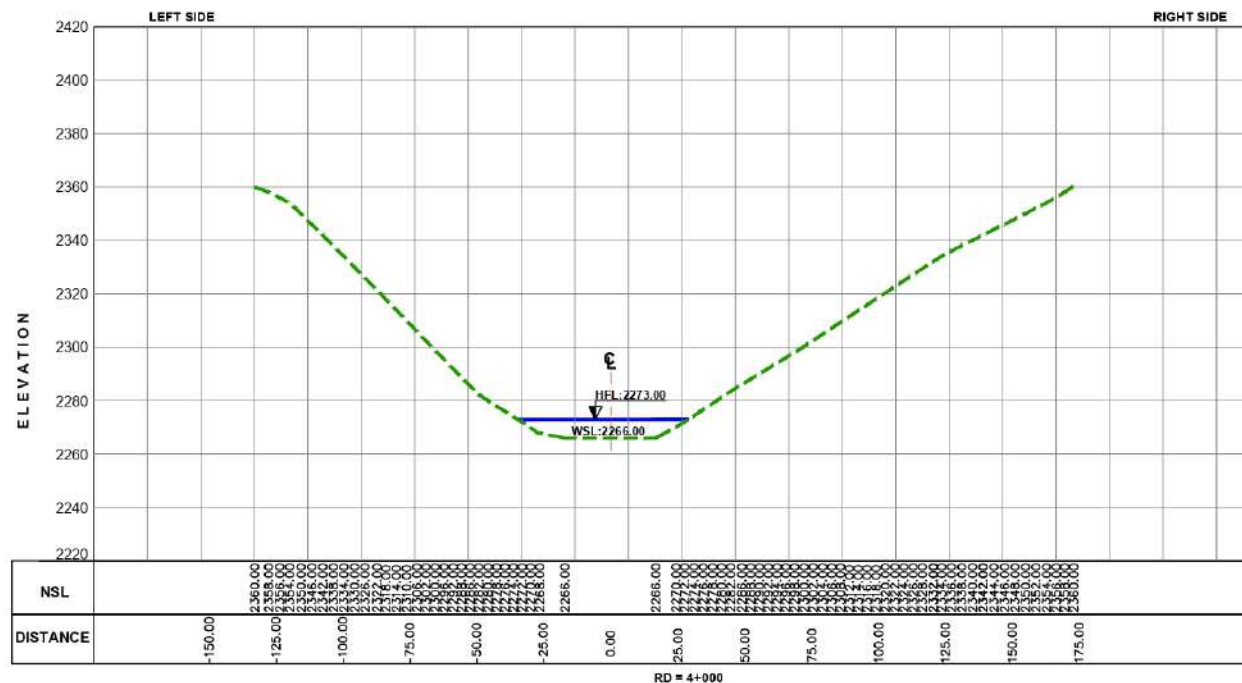
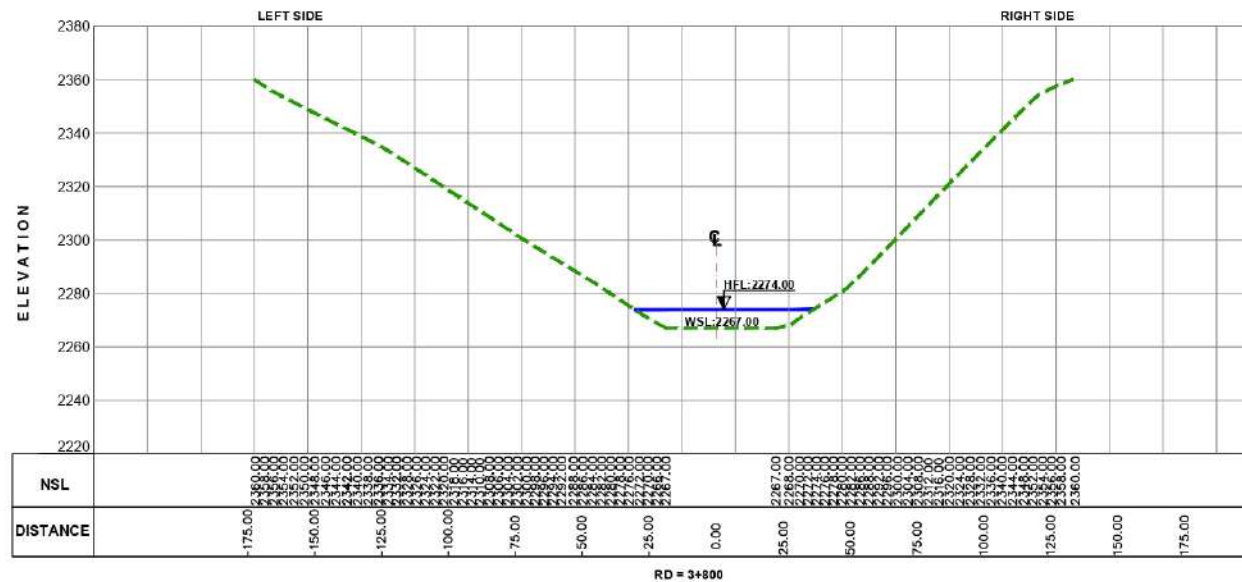


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



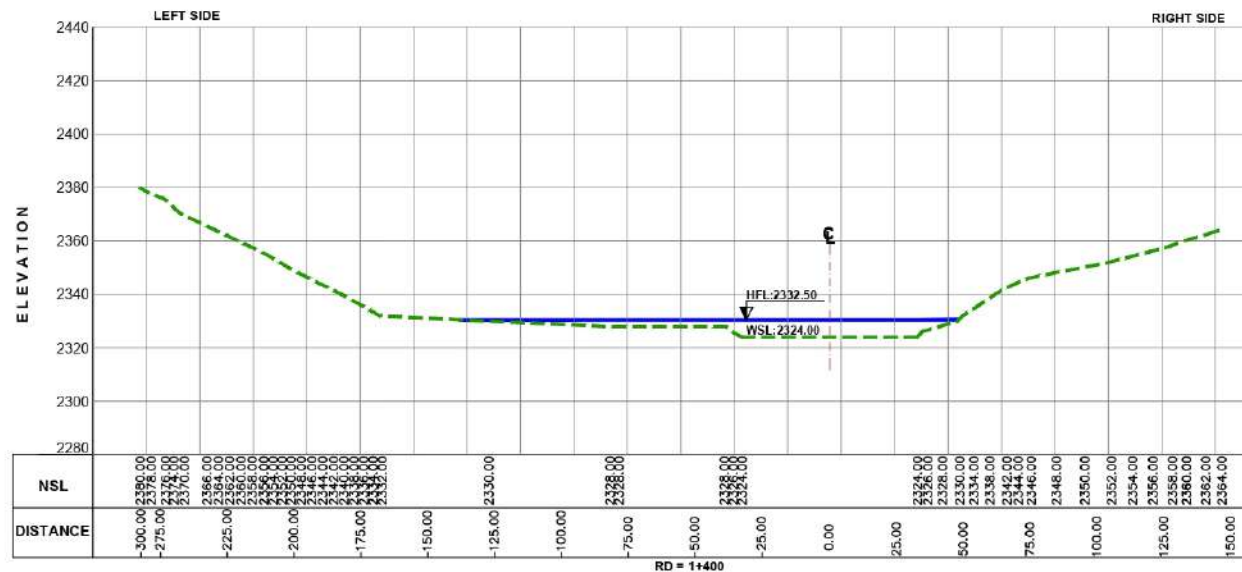
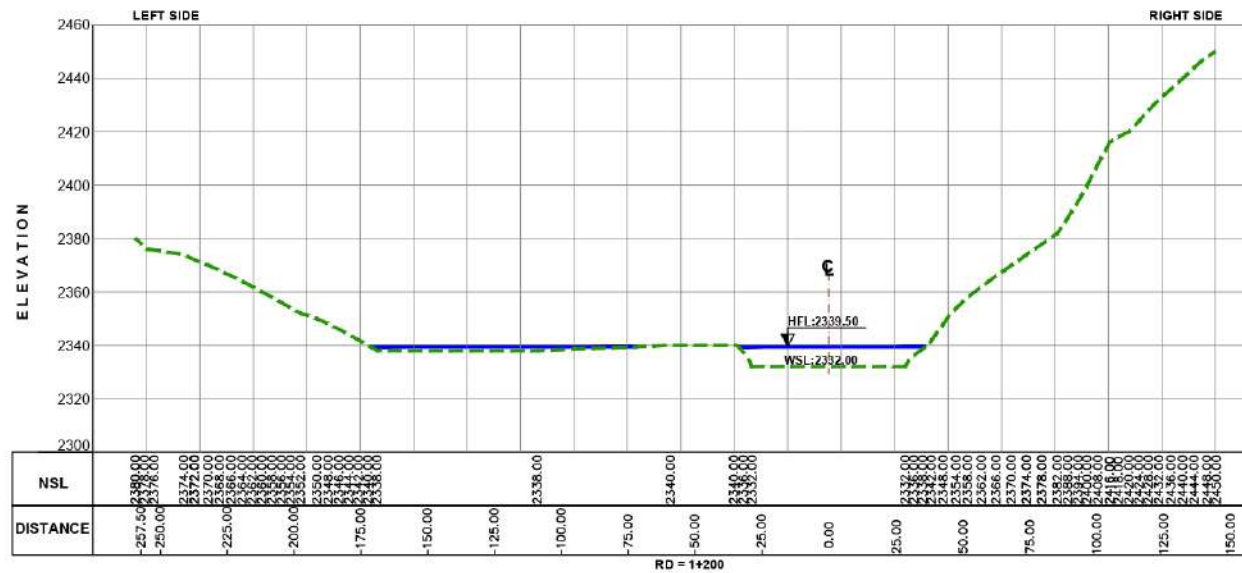
|                                                                                             |                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                                                                                                                                                                                            |
| PREPARED<br>Ehsan<br>DRAWN<br>Arshad<br>CHECKED<br>Ehsan                                    | <b>PROJECT</b><br><b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b><br><b>TITLE</b><br><b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 1 of 11) |
| APPROVED<br>Abid Sheikh                                                                     | DATE<br>Jun: 2021<br>SCALE<br>1 : 1,000<br>DWG No.<br>AFS-SP-251<br>REVISIONS                                                                                                              |



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

|                                                                                             |                                                                                                                                                                           |
|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                                                                                                                                                                           |
| PREPARED<br>Ehsan<br>DRAWN<br>Arshad<br>CHECKED<br>Ehsan<br>APPROVED<br>Abid Sheikh         | <b>PROJECT</b><br><b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b><br><br><b>HUNZA RIVER</b><br><b>X - SECTION AT RD. 3+800 &amp; 4+000</b><br>(Sheet 10 of 10) |
| DATE<br>Jun: 2021                                                                           | SCALE<br>1 : 2,000                                                                                                                                                        |
| DWG No.<br>AFS-CS-241                                                                       | REVISIONS                                                                                                                                                                 |



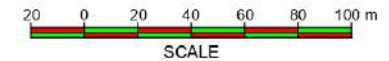
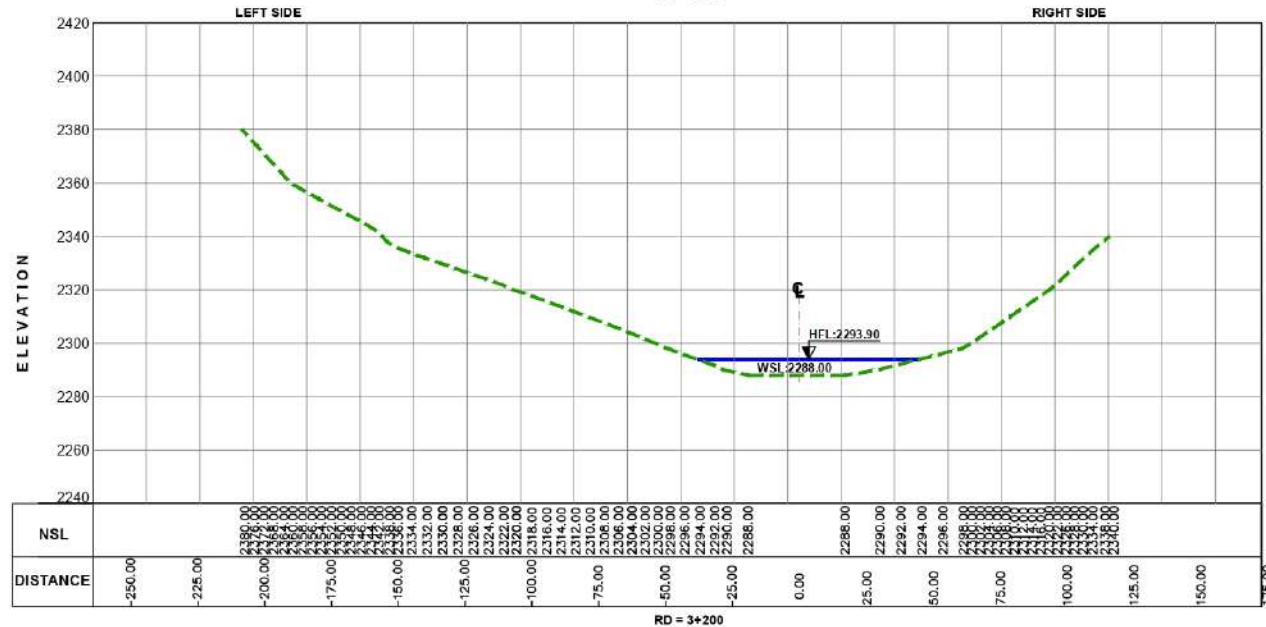
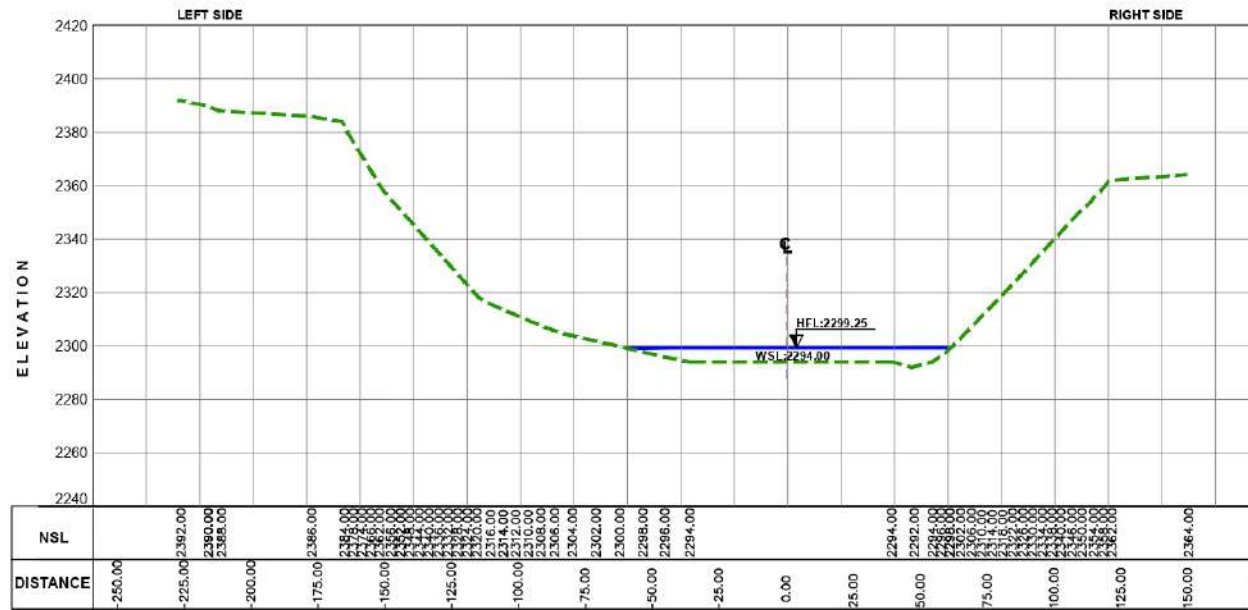
**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



**PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY**  
HYDRO PLANNING ORGANIZATION

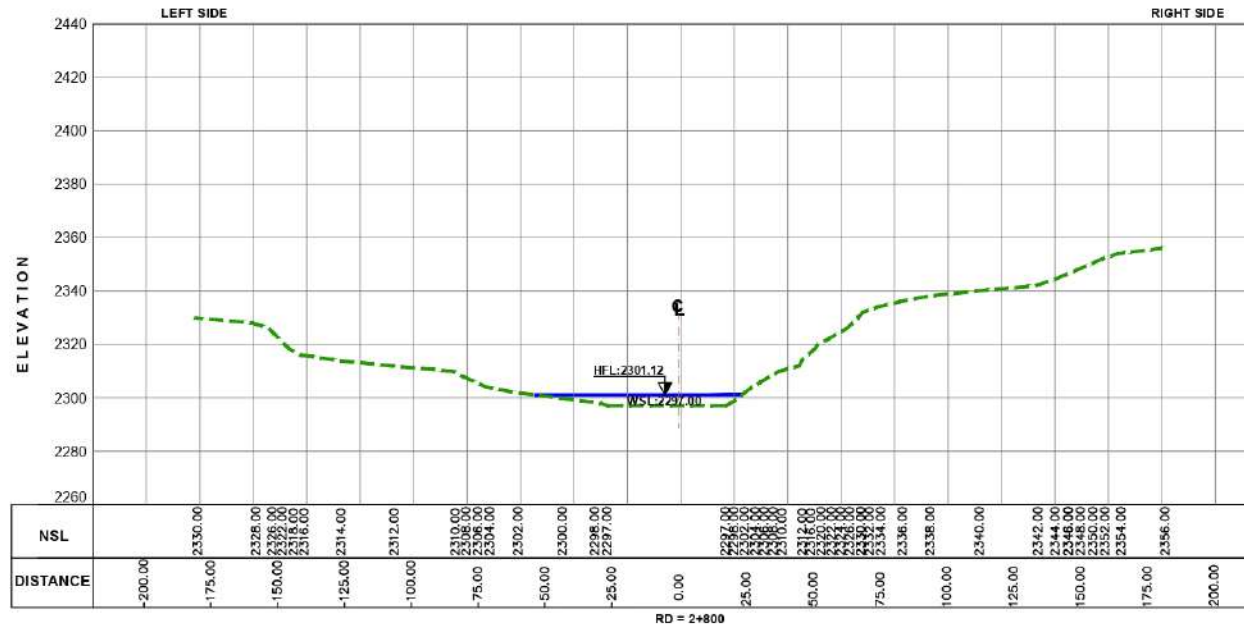
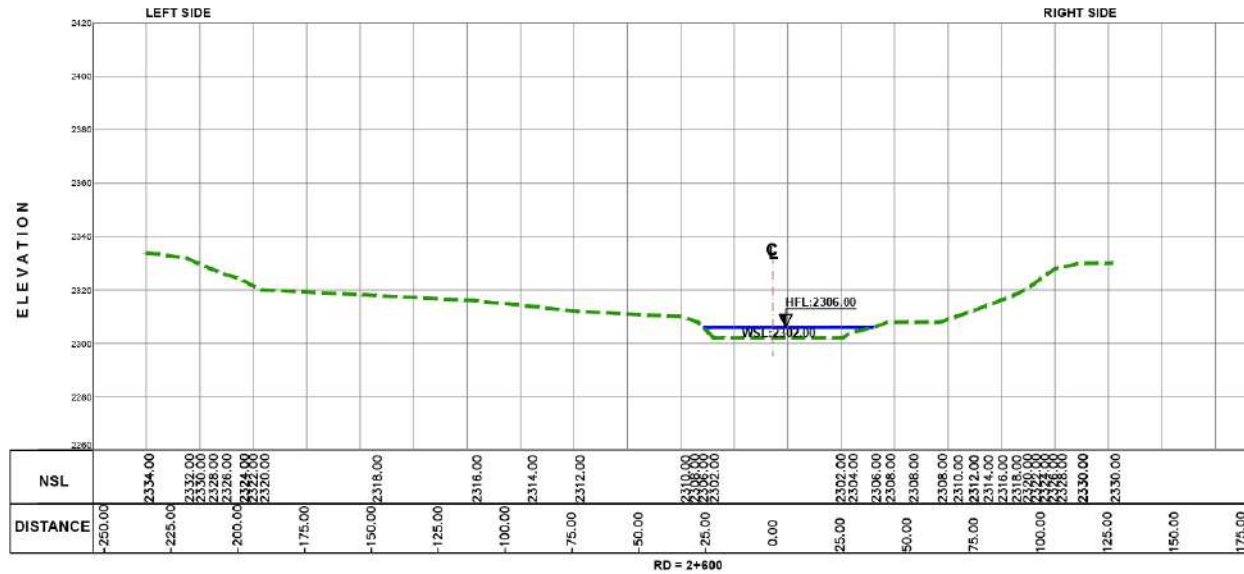
|             |           |                                 |            |           |
|-------------|-----------|---------------------------------|------------|-----------|
| PREPARED    | PROJECT   | <b>ATTABAD LAKE HPP</b>         |            |           |
| DRAWN       | TITLE     | <b>FEASIBILITY STUDY REPORT</b> |            |           |
| CHECKED     |           | <b>HUNZA RIVER</b>              |            |           |
| APPROVED    | DATE      | SCALE                           | DWG No.    | REVISIONS |
| Abid Sheikh | Jun: 2021 | 1 : 2,000                       | AFS-CS-235 |           |



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

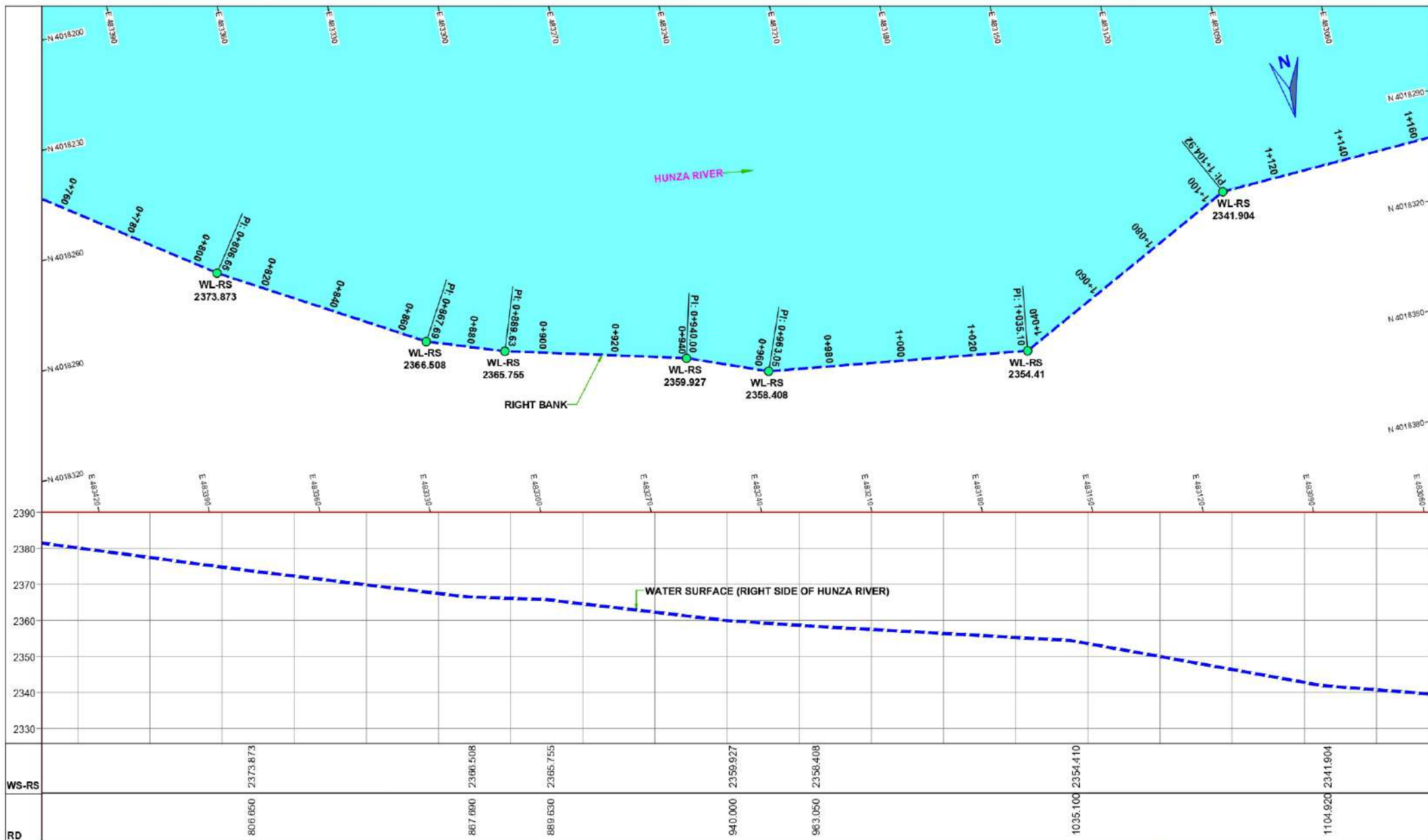
|                                                          |                                                                                                          |                                                                                             |                   |                    |                       |           |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|--------------------|-----------------------|-----------|
|                                                          |                                                                                                          | <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                   |                    |                       |           |
|                                                          |                                                                                                          | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                  |                   |                    |                       |           |
| PREPARED<br>Ehsan<br>DRAWN<br>Arshad<br>CHECKED<br>Ehsan | PROJECT<br>TITLE<br><b>HUNZA RIVER</b><br><b>X - SECTION AT RD. 3+000 &amp; 3+200</b><br>(Sheet 8 of 10) | APPROVED<br>Abid Sheikh                                                                     | DATE<br>Jun: 2021 | SCALE<br>1 : 2,000 | DWG No.<br>AFS-CS-239 | REVISIONS |



**NOTE:**

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.

|                    |                  |                                                                                             |                   |
|--------------------|------------------|---------------------------------------------------------------------------------------------|-------------------|
|                    |                  | <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                   |
|                    |                  | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                  |                   |
| PREPARED<br>Ehsan  | PROJECT<br>TITLE | <b>HUNZA RIVER</b><br><b>X - SECTION AT RD. 2+600 &amp; 2+800</b><br>(Sheet 7 of 10)        |                   |
| DRAWN<br>Arshad    | CHECKED<br>Ehsan | APPROVED<br>Abid Sheikh                                                                     | DATE<br>Jun: 2021 |
| SCALE<br>1 : 2,000 |                  | DWG No.<br>AFS-CS-238                                                                       | REVISIONS         |

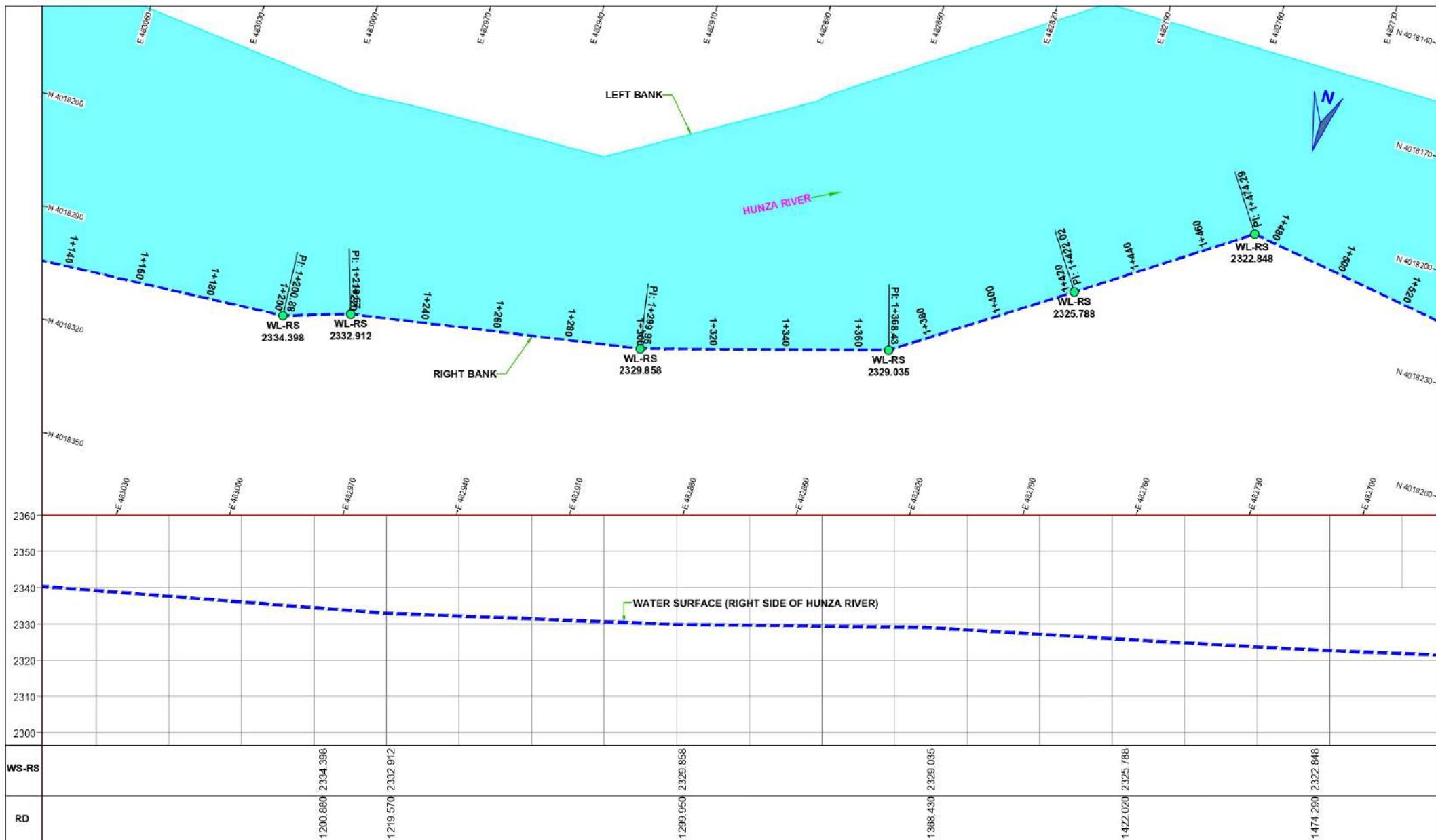


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



| PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY |           |                                                                                            |            |
|------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|------------|
| HYDRO PLANNING ORGANIZATION                    |           |                                                                                            |            |
| PREPARED                                       | PROJECT   | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                 |            |
| DRAWN                                          | TITLE     |                                                                                            |            |
| CHECKED                                        | Arshad    | <b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 3 of 11) |            |
| APPROVED                                       | DATE      |                                                                                            |            |
| Abid Sheikh                                    | Jun: 2021 | SCALE                                                                                      | REVISIONS  |
|                                                |           | 1 : 1,000                                                                                  | AFS-SP-253 |

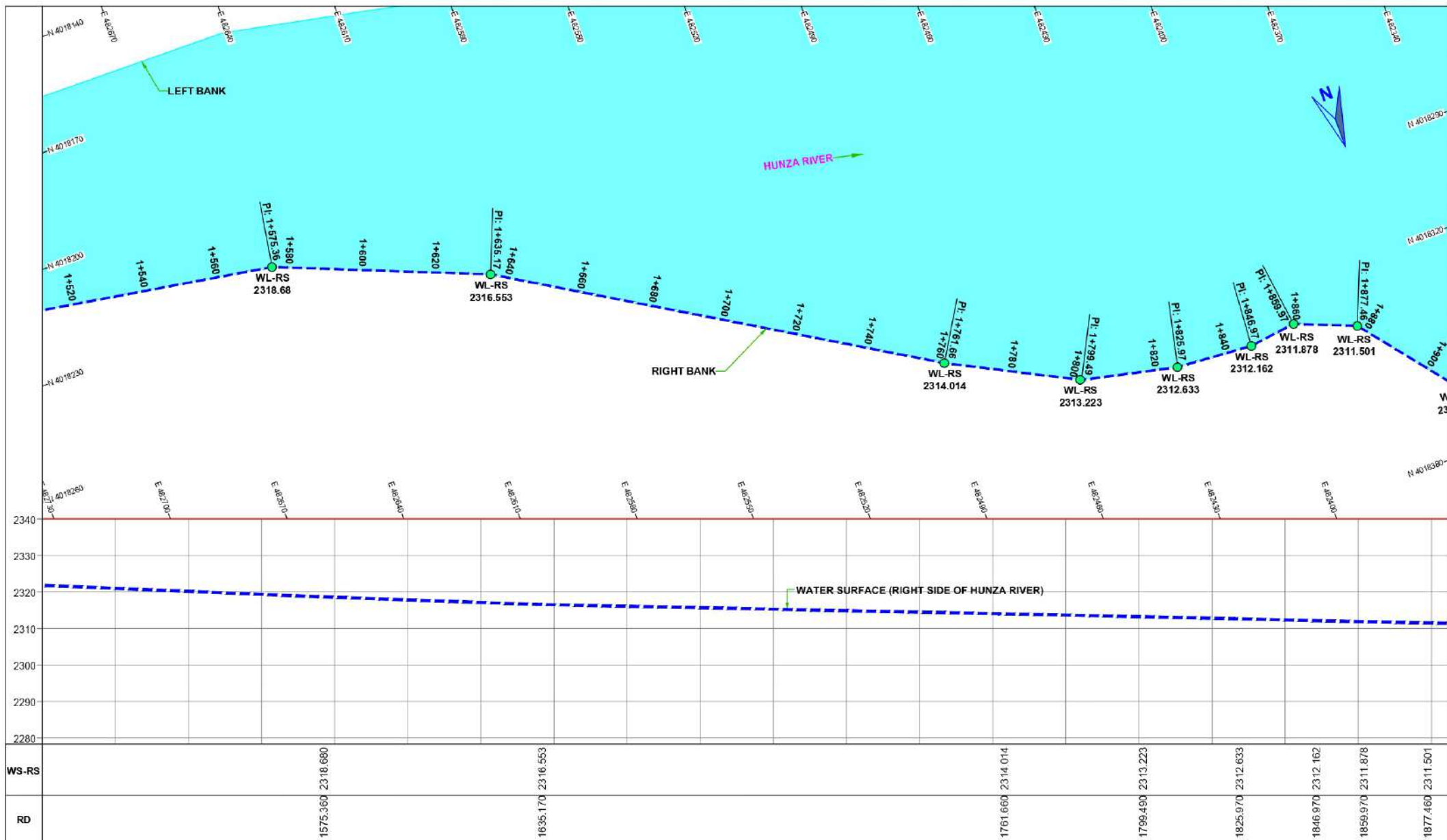


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



| PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY |           |                                                                                            |            |
|------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|------------|
| HYDRO PLANNING ORGANIZATION                    |           |                                                                                            |            |
| PREPARED                                       | PROJECT   | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                 |            |
| DRAWN                                          | TITLE     |                                                                                            |            |
| CHECKED                                        | DATE      | <b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 4 of 11) |            |
| APPROVED                                       | SCALE     |                                                                                            |            |
| Abid Sheikh                                    | Jun: 2021 | 1 : 1,000                                                                                  | AFS-SP-254 |
|                                                |           | DWG No.                                                                                    | REVISIONS  |

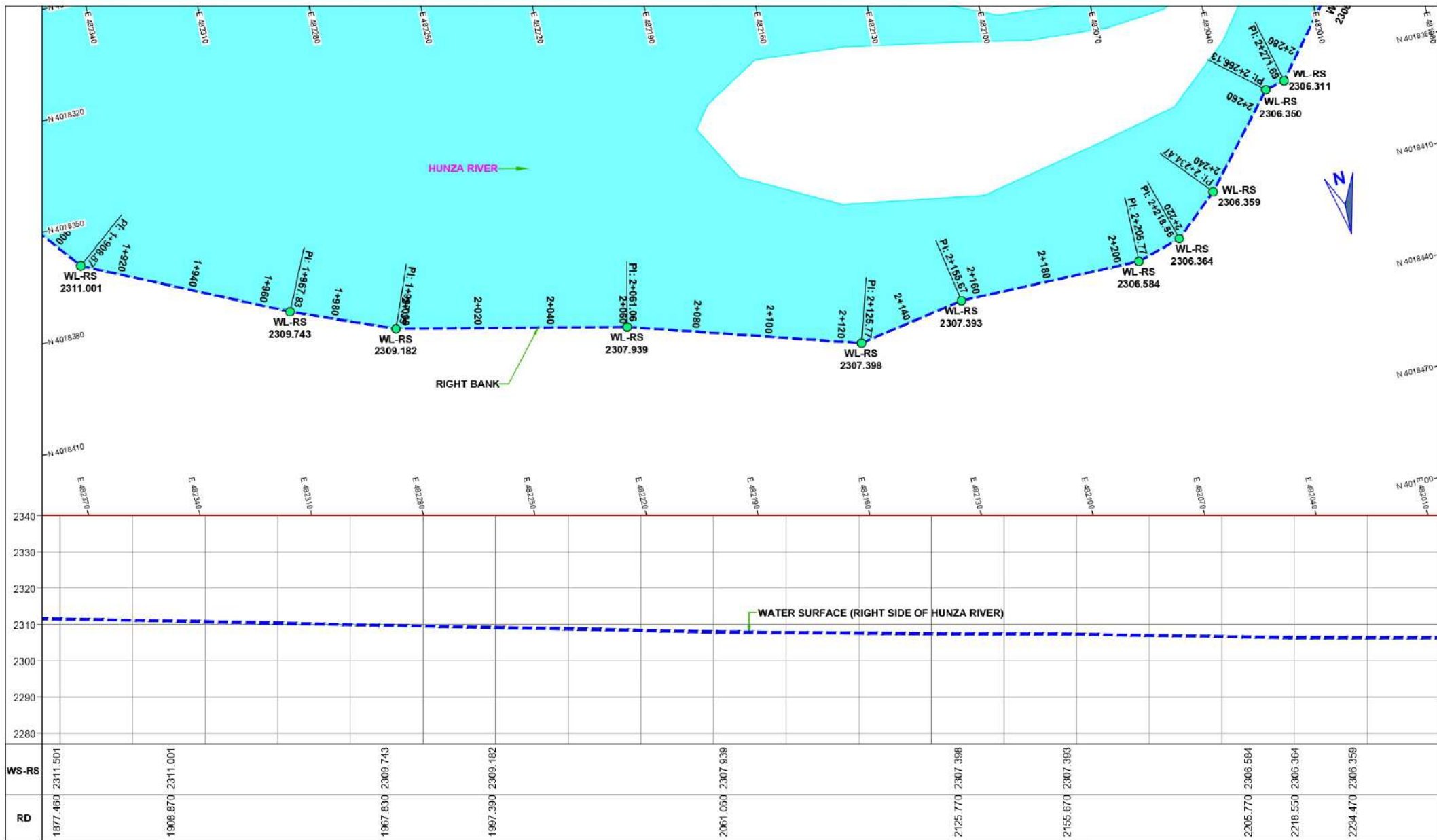


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



| PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY |                          |
|------------------------------------------------|--------------------------|
| HYDRO PLANNING ORGANIZATION                    |                          |
| PREPARED                                       | PROJECT                  |
| Ehsan                                          | ATTABAD LAKE HPP         |
| DRAWN                                          | TITLE                    |
| Arshad                                         | FEASIBILITY STUDY REPORT |
| CHECKED                                        |                          |
| Ehsan                                          |                          |
| APPROVED                                       | DATE                     |
| Abid Sheikh                                    | Jun: 2021                |
| SCALE                                          | DWG No.                  |
| 1 : 1,000                                      | AFS-SP-255               |
| REVISIONS                                      |                          |

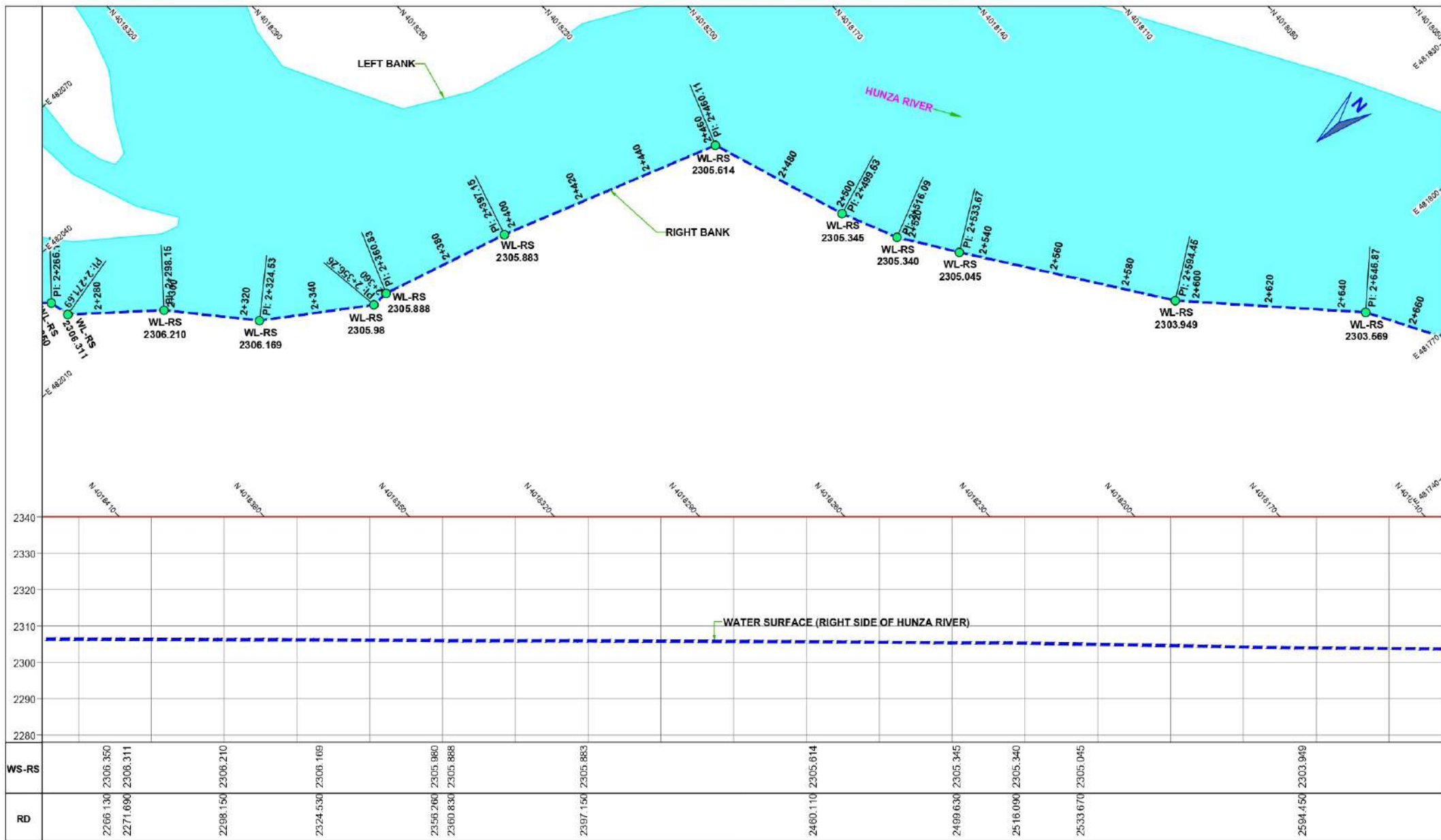


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



|                                                                                             |           |                                                                                            |            |
|---------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |           |                                                                                            |            |
| PREPARED                                                                                    | PROJECT   | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                 |            |
| DRAWN                                                                                       | TITLE     | <b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 6 of 11) |            |
| CHECKED                                                                                     | DATE      | SCALE                                                                                      | DWG No.    |
| APPROVED                                                                                    | Jun: 2021 | 1 : 1,000                                                                                  | AFS-SP-256 |
| Ehsan<br>Arshad<br>Abid Sheikh                                                              |           | REVISIONS                                                                                  |            |

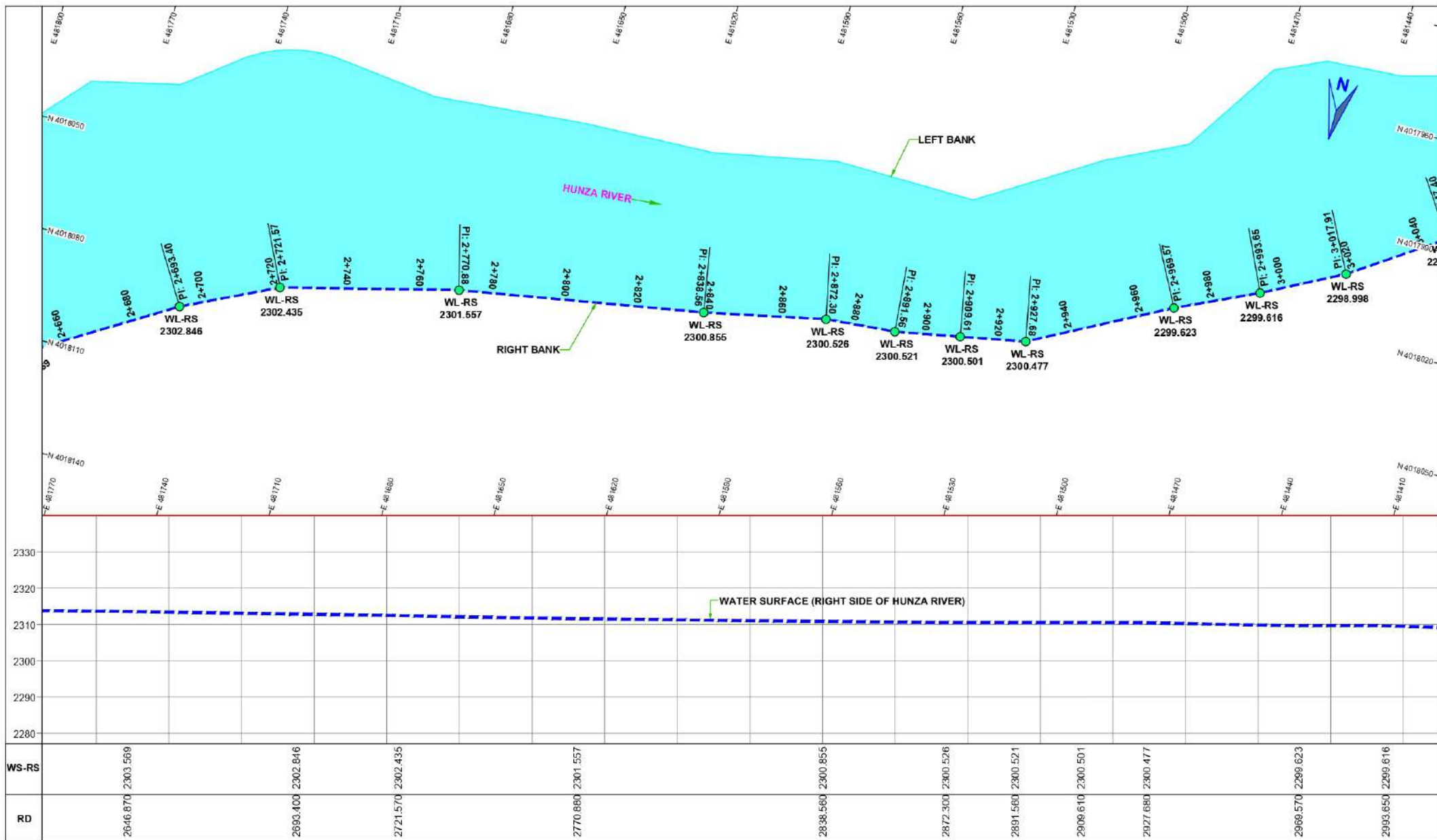


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



|                                                                                             |                                                                                                                                                                                  |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                                                                                                                                                                                  |
| PREPARED<br>Ehsan<br>DRAWN<br>Arshad<br>CHECKED<br>Ehsan<br>APPROVED<br>Abid Sheikh         | <b>PROJECT TITLE</b><br><b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b><br><b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 7 of 11) |
| DATE<br>Jun: 2021                                                                           | SCALE<br>1 : 1,000                                                                                                                                                               |
| DWG No.<br>AFS-SP-257                                                                       | REVISIONS                                                                                                                                                                        |

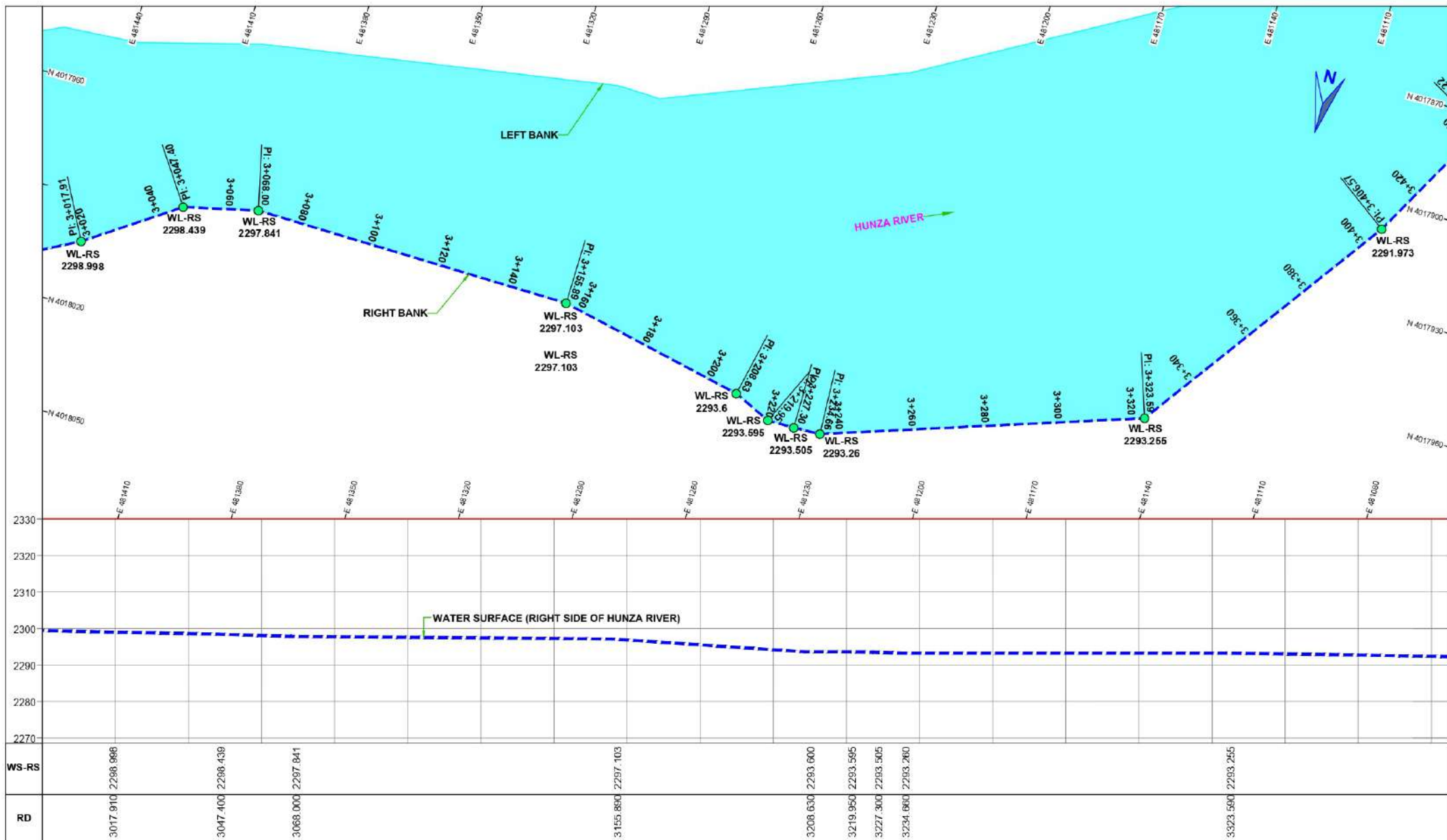


### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



| PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY |           |                                                                                            |            |
|------------------------------------------------|-----------|--------------------------------------------------------------------------------------------|------------|
| HYDRO PLANNING ORGANIZATION                    |           |                                                                                            |            |
| PREPARED                                       | PROJECT   | <b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b>                                 |            |
| DRAWN                                          | TITLE     |                                                                                            |            |
| CHECKED                                        |           | <b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 8 of 11) |            |
| APPROVED                                       | DATE      |                                                                                            |            |
| Abid Sheikh                                    | Jun: 2021 | SCALE                                                                                      | REVISIONS  |
|                                                |           | 1 : 1,000                                                                                  | AFS-SP-258 |

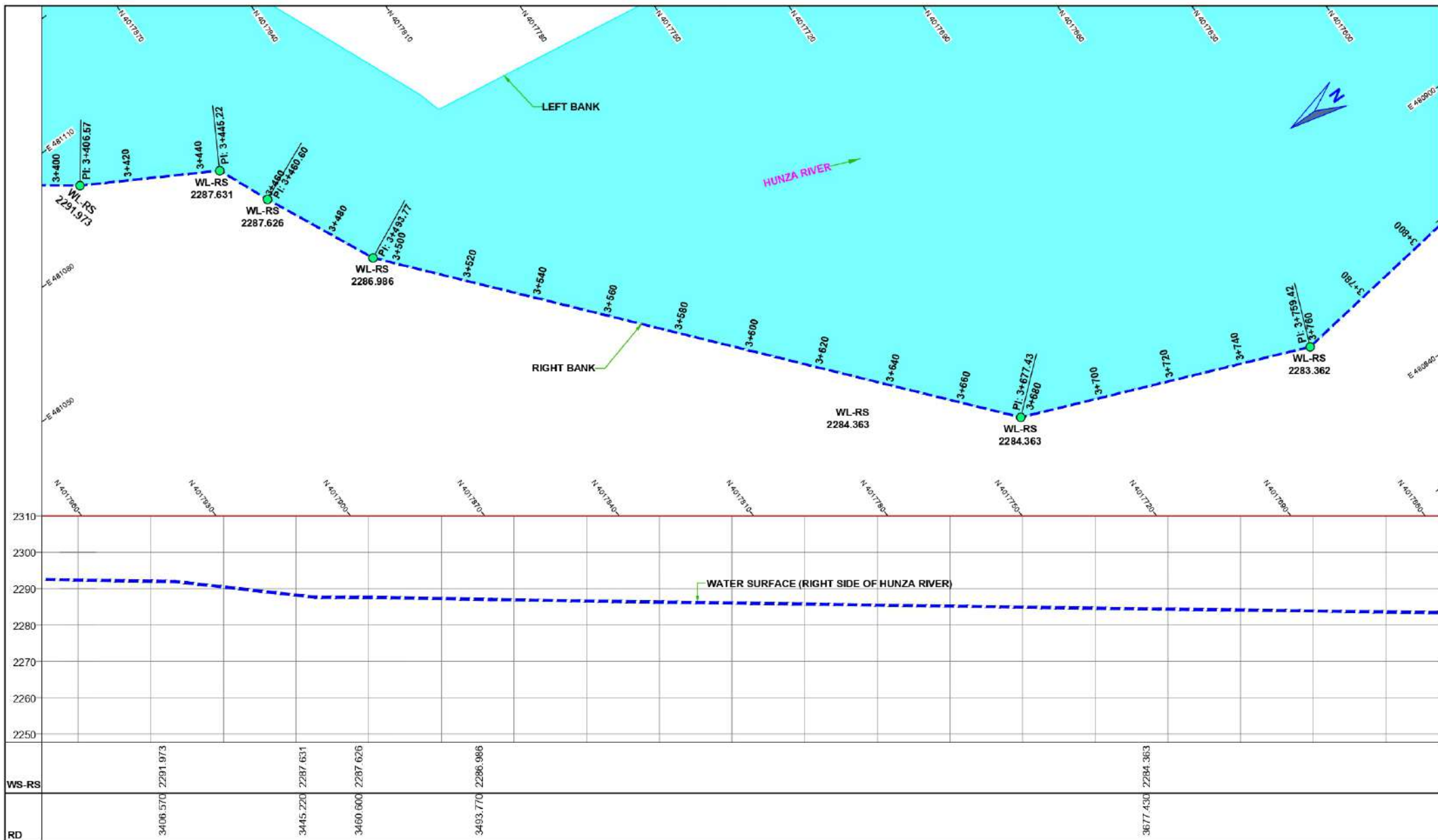


#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



|                                                                                             |                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b><br><b>HYDRO PLANNING ORGANIZATION</b> |                                                                                                                                                                                            |
| PREPARED<br>Ehsan<br>DRAWN<br>Arshad<br>CHECKED<br>Ehsan                                    | <b>PROJECT</b><br><b>ATTABAD LAKE HPP</b><br><b>FEASIBILITY STUDY REPORT</b><br><b>TITLE</b><br><b>WATER SURFACE</b><br><b>PLAN AND PROFILE</b><br><b>(HUNZA RIVER)</b><br>(Sheet 9 of 11) |
| APPROVED<br>Abid Sheikh                                                                     | DATE<br>Jun: 2021<br>SCALE<br>1 : 1,000<br>DWG No.<br>AFS-SP-259<br>REVISIONS                                                                                                              |



#### NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS IN METERS UNLESS OTHERWISE SPECIFIED.



|                   |           |                                                             |            |           |
|-------------------|-----------|-------------------------------------------------------------|------------|-----------|
|                   |           | <b>PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY</b>       |            |           |
|                   |           | <b>HYDRO PLANNING ORGANIZATION</b>                          |            |           |
| PREPARED          | PROJECT   | <b>ATTABAD LAKE HPP</b>                                     |            |           |
| Ehsan<br>DRAWN    | TITLE     | <b>FEASIBILITY STUDY REPORT</b>                             |            |           |
| Arshad<br>CHECKED |           | <b>WATER SURFACE<br/>PLAN AND PROFILE<br/>(HUNZA RIVER)</b> |            |           |
| Ehsan             |           | (Sheet 10 of 11)                                            |            |           |
| APPROVED          | DATE      | SCALE                                                       | DWG No.    | REVISIONS |
| Abid Sheikh       | Jun: 2021 | 1 : 1,000                                                   | AFS-SP-260 |           |