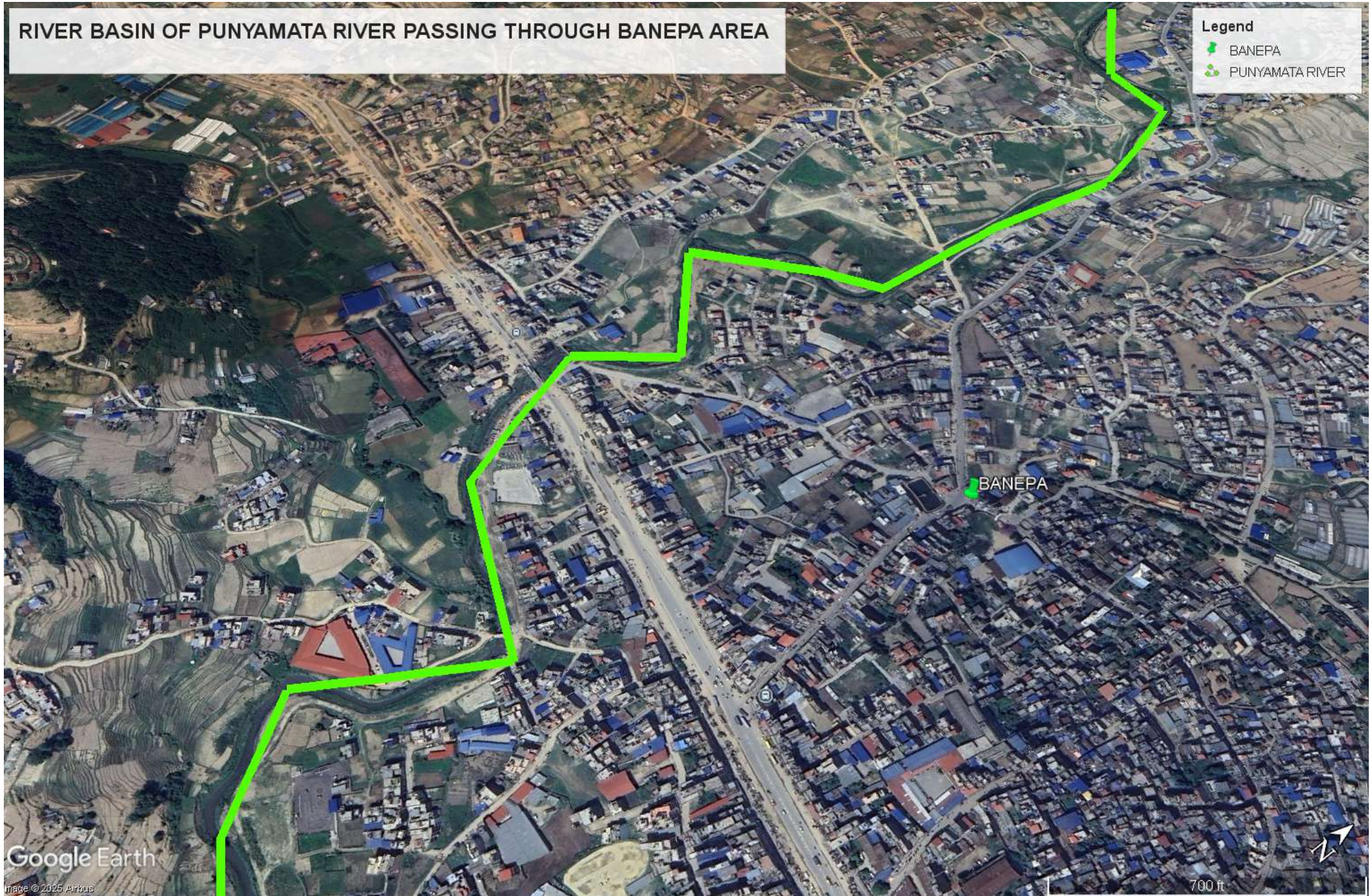
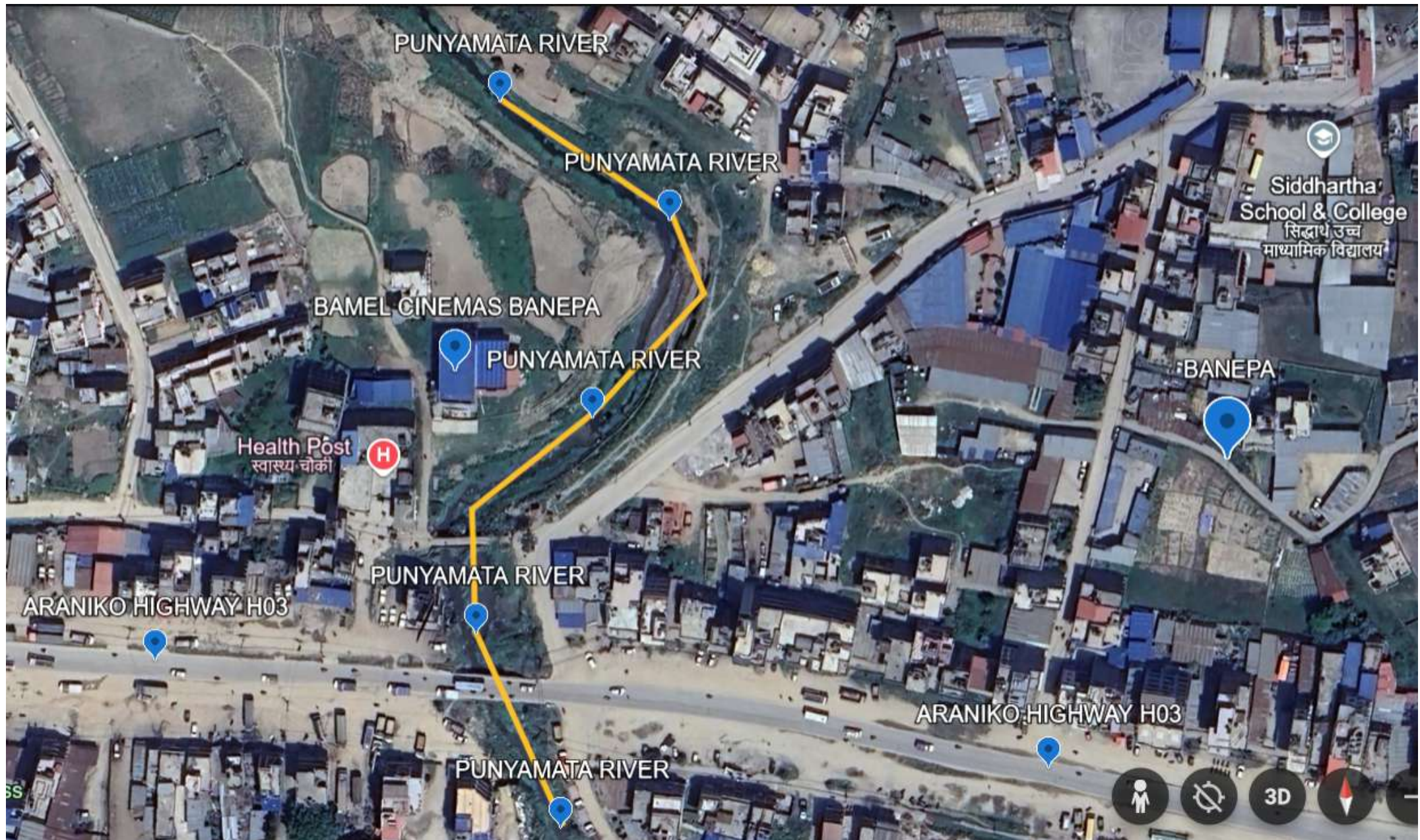


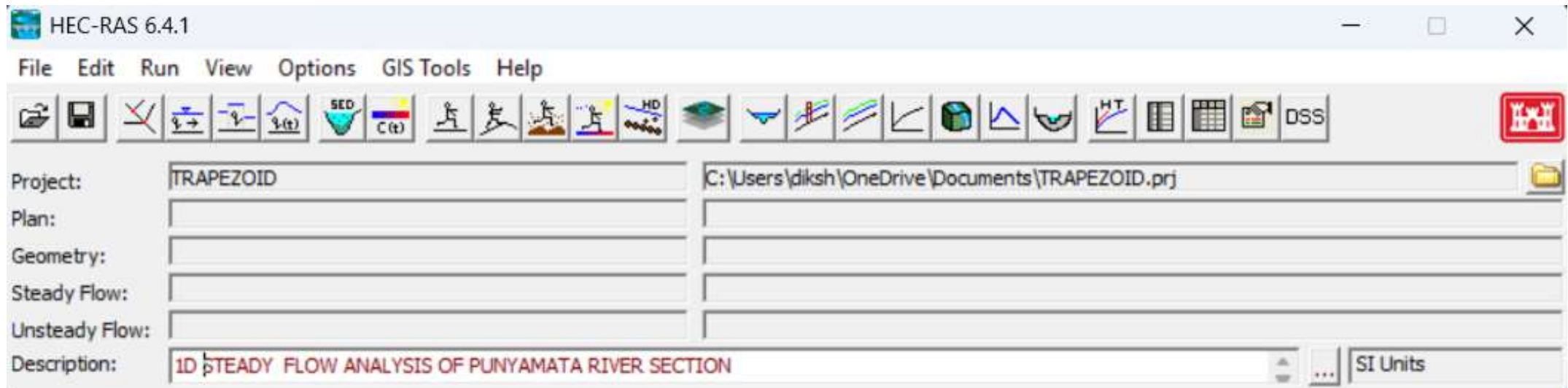
RIVER BASIN OF PUNYAMATA RIVER PASSING THROUGH BANEPA AREA

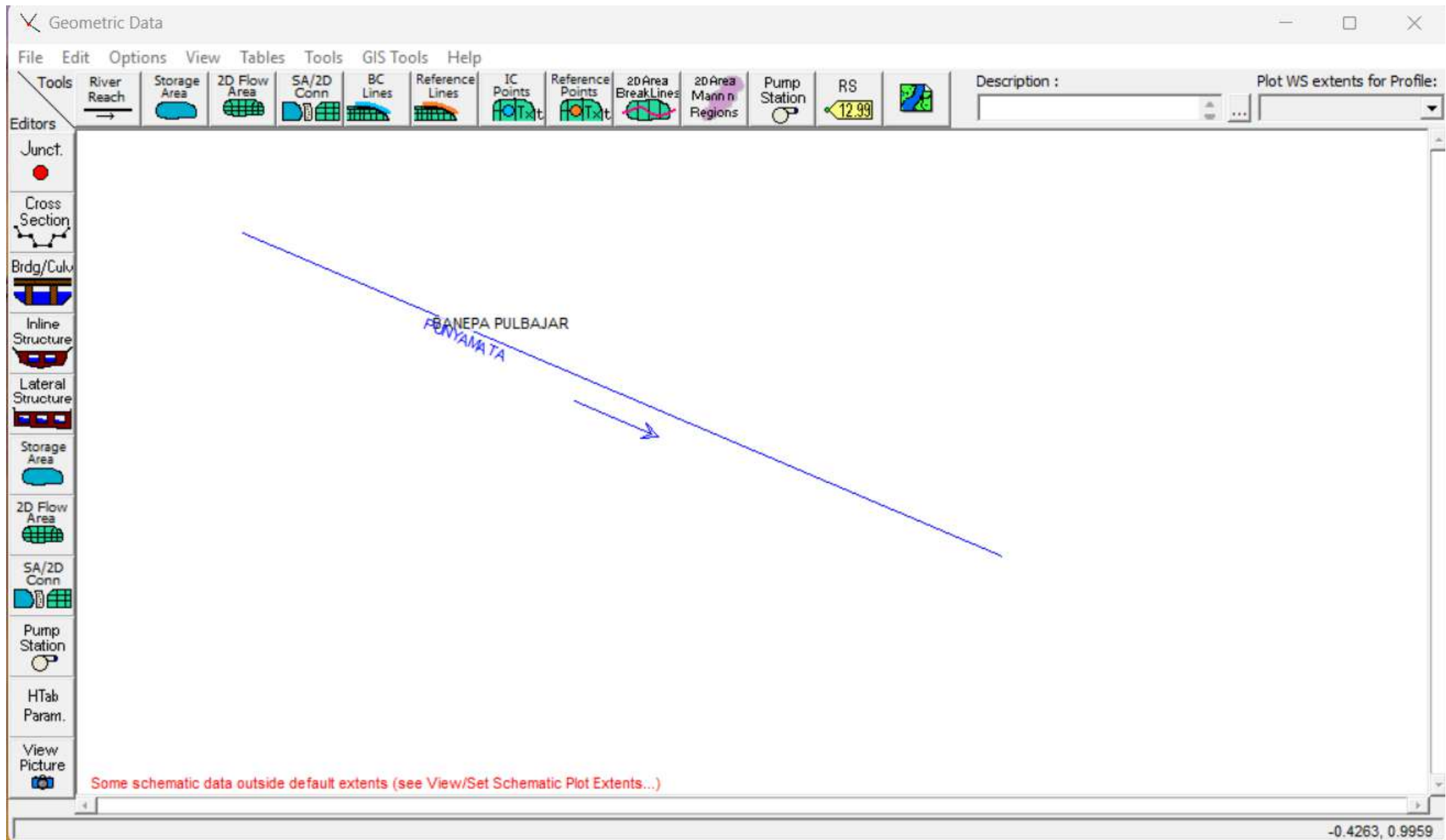
Legend

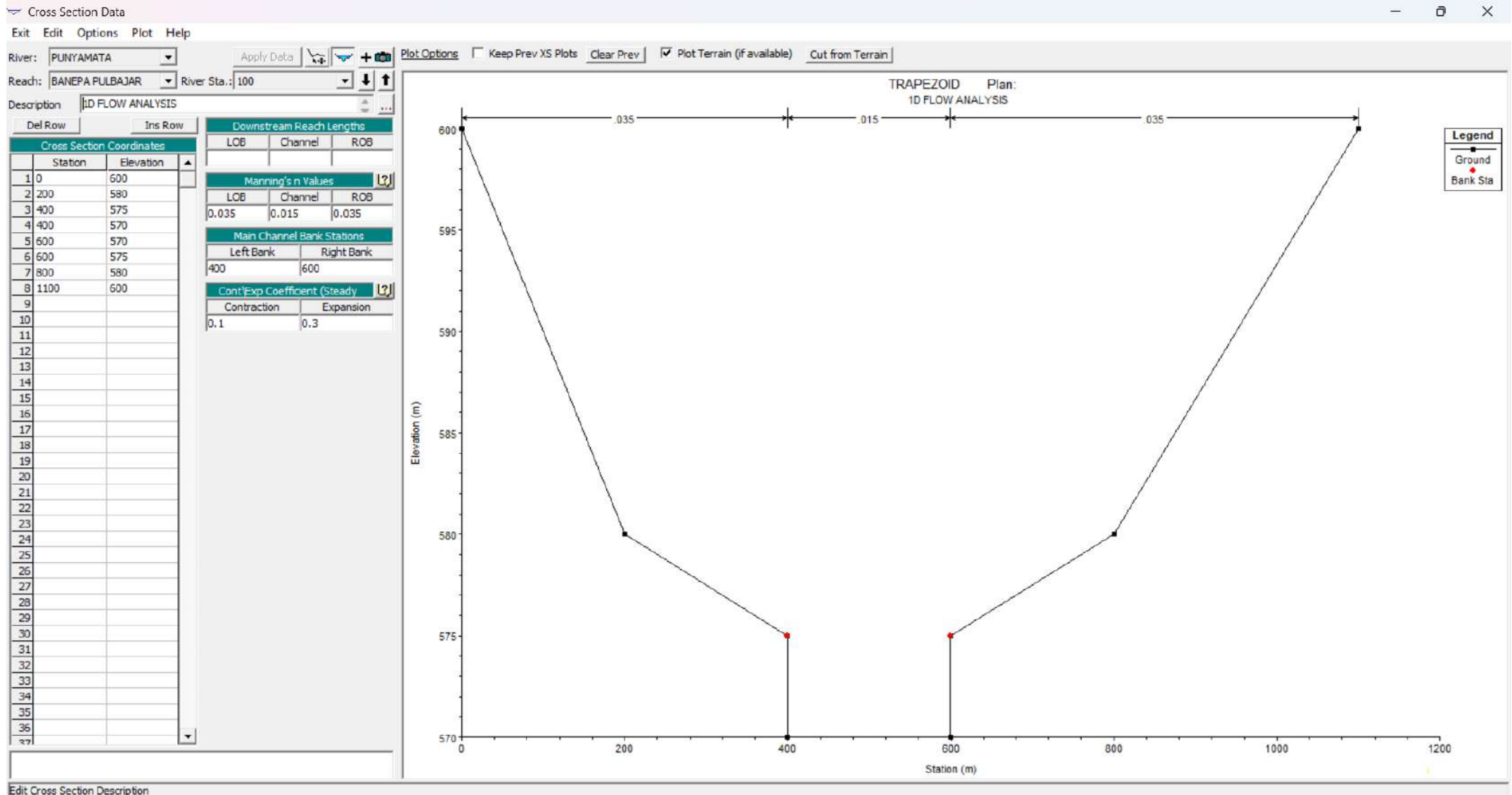
- BANEPA
- PUNYAMATA RIVER











Channel Design/Modification Editor - GEOMETRY DATA

File Edit View Options Help

Editing Tools

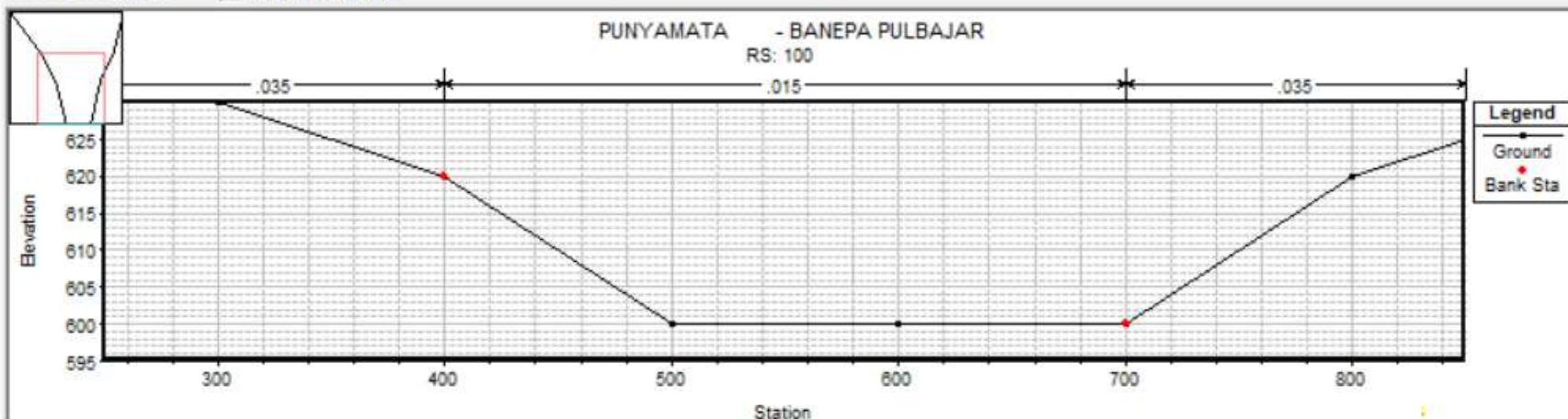
Template Design ...

Modify a Range of XS ...

Profile Plot XS Plot

☒ Plot Template

☒ Zoom to Banks



River: PUNYAMATA

Reach: BANEPA PULBAJAR

Channel Design/Modification Alternative

Alternative #1

Selected Area Edit Options

+...

x...

A+B

A-B

Copy

Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Copy Invert

Reset Lengths

Reset Center Sta

Shift Center Station

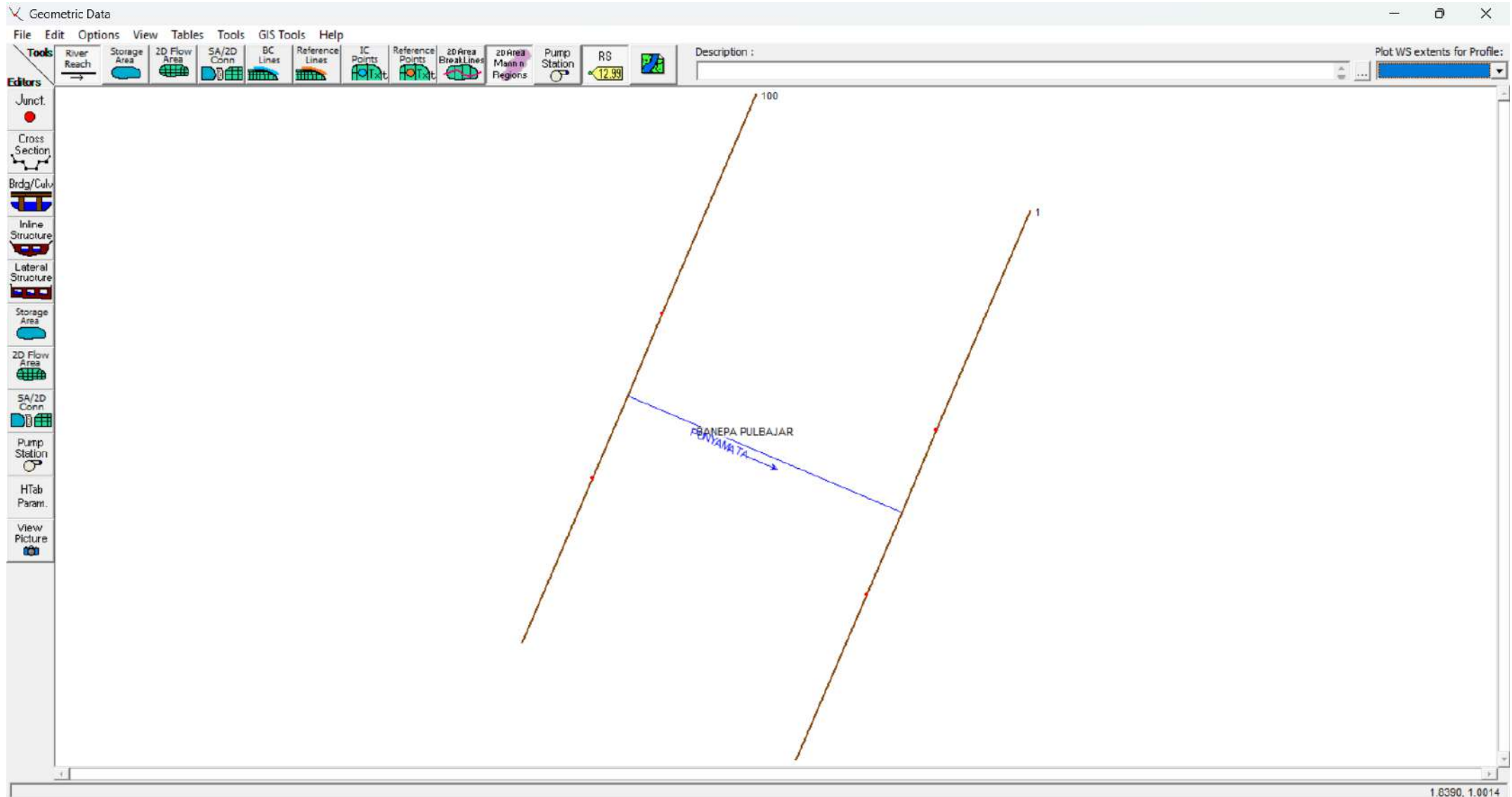
←

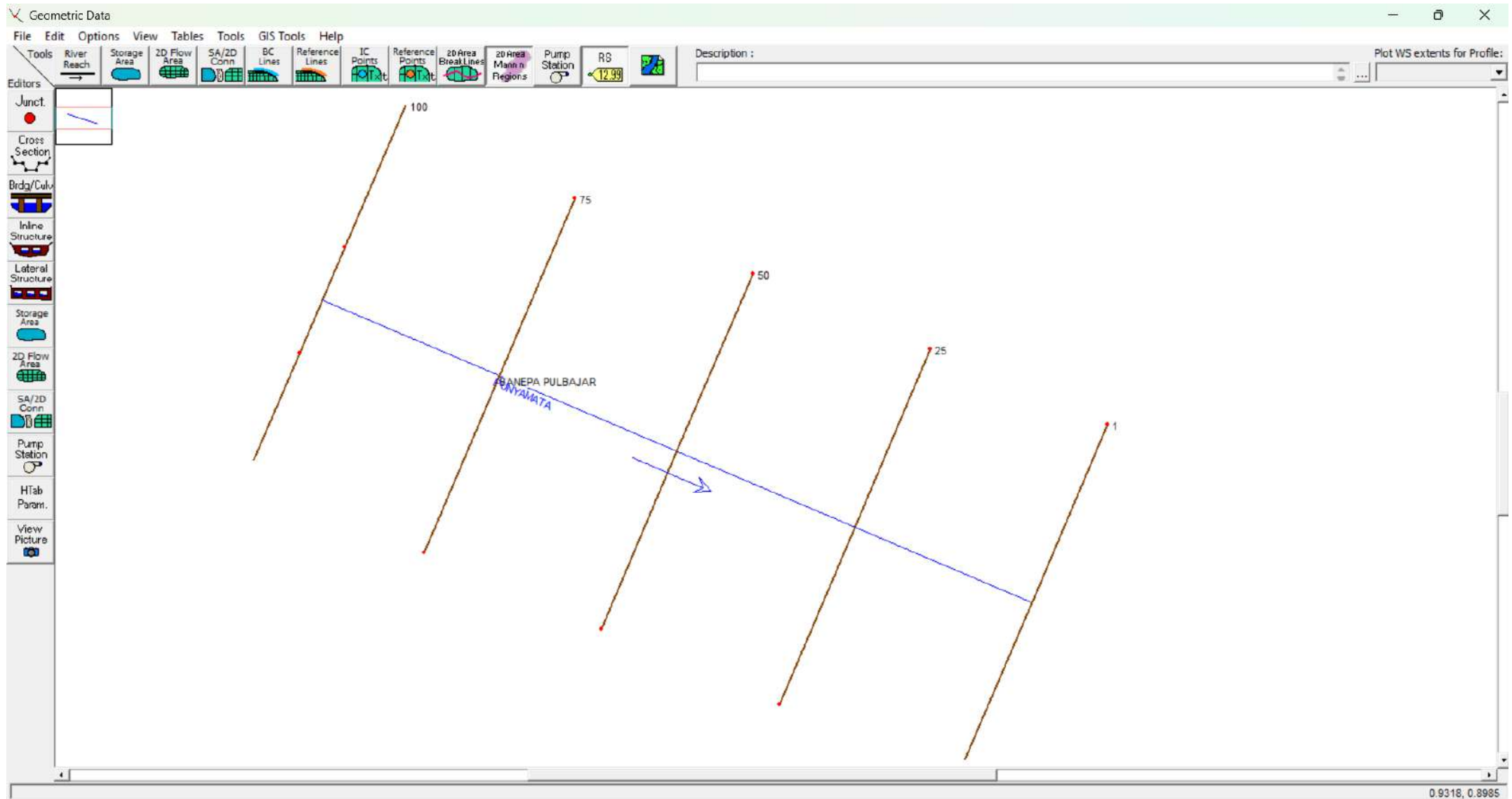
→

Shift

1

	River	Reach	RS	Invert Elev.	Template Elev.	LOB Length	Channel Length	ROB Length	Center Station	Template	Fixed Elev.	Slope from US	Slope from DS	Interp. Dist.	Cut Area	Fill Area
1	PUNYAMATA	BANEPA	100	600	600	500	500	500	550							
2	PUNYAMATA	BANEPA	75	550	550	500	500	500	500							
3	PUNYAMATA	BANEPA	50	550	550	500	500	500	500							
4	PUNYAMATA	BANEPA	25	550	550	500	500	500	500							
5	PUNYAMATA	BANEPA	1	550	550	500	500	500	500							





HEC-RAS Finished Computations

Write Geometry Information

Layer: COMPLETE

Steady Flow Simulation

River: PUNYAMATA

Reach: BANEPA PULBAJAR

Profile: PF 1

RS: 100

Node Type: Cross Section

Simulation: 1/1

Computation Messages

Plan: 'Plan 01' (TRAPEZOID.p01)

Simulation started at: 13Feb2025 01:48:24 PM

Writing Plan GIS Data...

Completed Writing Plan GIS Data

Writing Geometry...

Computing Bank Lines

Bank lines generated in 61 ms

Computing Edge Lines

Edge Lines generated in 14 ms

Computing XS Interpolation Surface

XS Interpolation Surface generated in 68 ms

Completed Writing Geometry

Writing Event Conditions ...

Completed Writing Event Condition Data

Steady Flow Simulation HEC-RAS 6.4.1 June 2023

Finished Steady Flow Simulation

Computations Summary

Computation Task	Time(hh:mm:ss)
Completing Geometry, Flow and Plan	1
Steady Flow Computations	1
Complete Process	3

Cross Section

FileTypeOptionsHelp

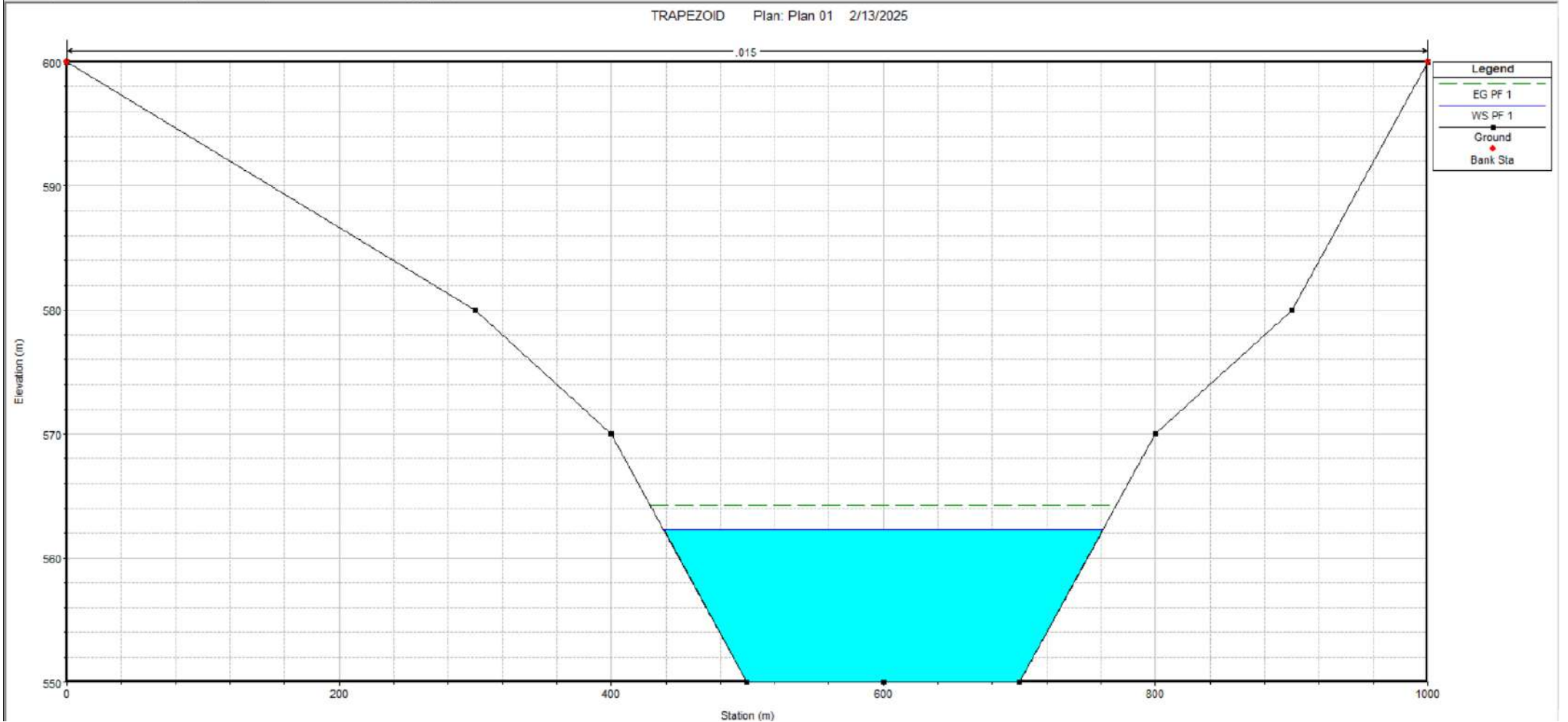
River: PUNYAMATA

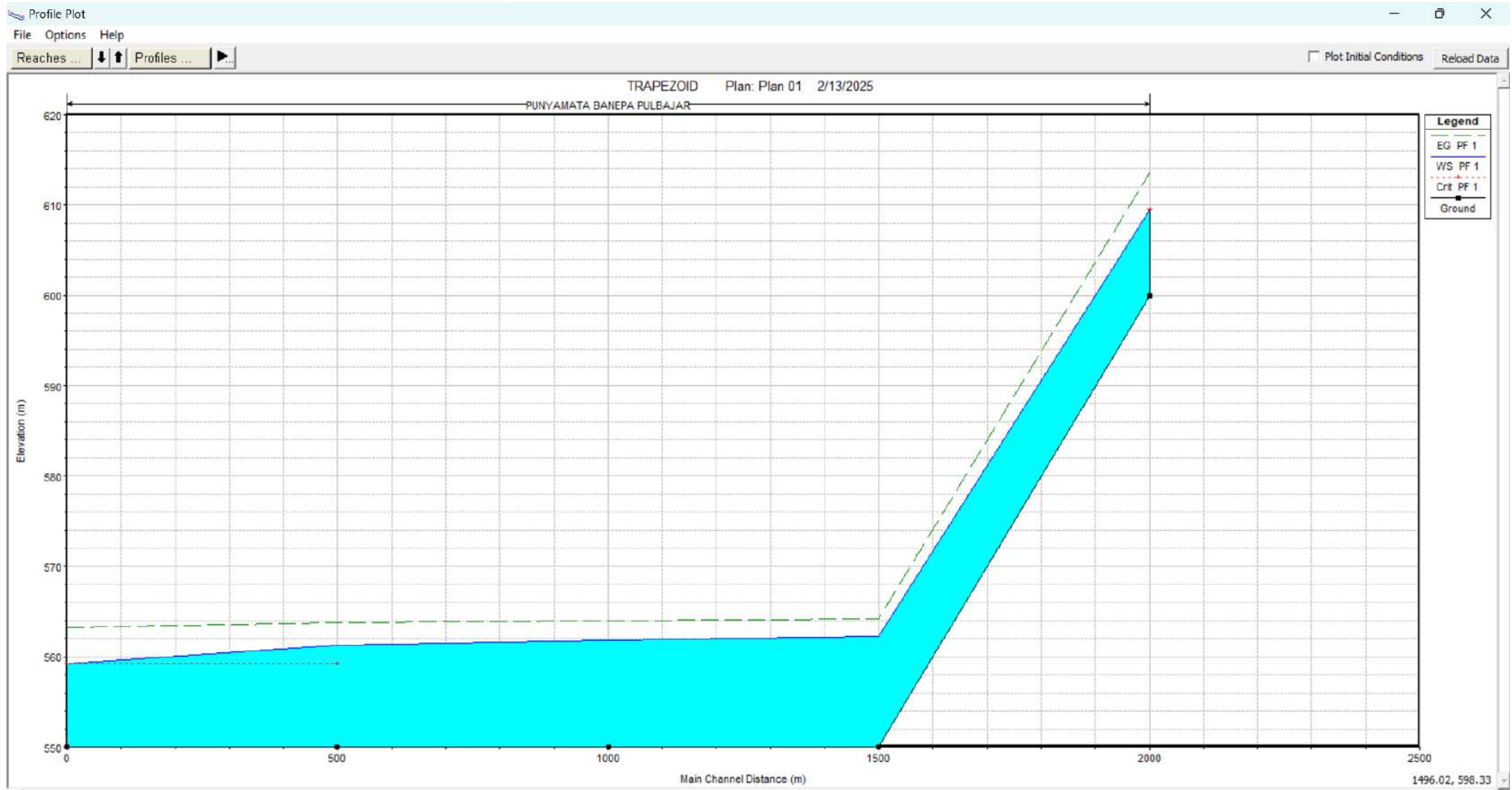
777.94, 596.71

Reach: BANEPA PULBAJAR

River Sta.: 75

Reload Data





X-Y-Z Perspective Plot

File Options

Upstream RS: 100

Downstream RS: 1

Rotation Angle

-10

Azimuth Angle

10

Reload Data

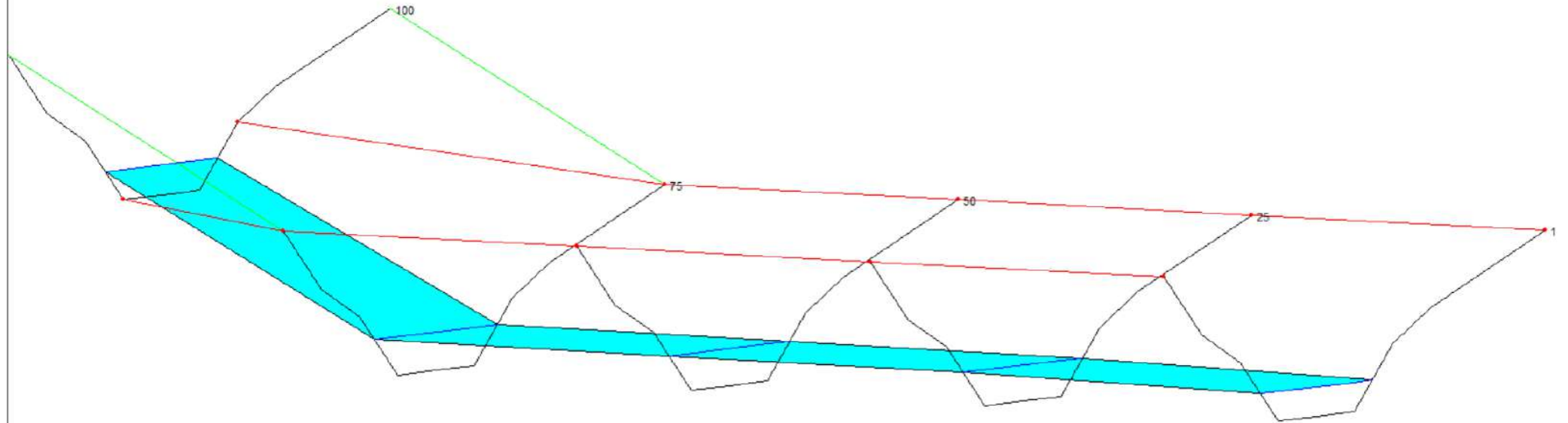
TRAPEZOID Plan: Plan 01 2/13/2025

Legend

WS PF 1

Ground

Bank Sta



File Options Help

Description :

Description for steady file, expand the view with the button to the right.

Enter/Edit Number of Profiles (32000 max): 1 Reach Boundary Conditions ...

Locations of Flow Data Changes

River: PUNYAMATA

Add Multiple...

Reach: BANEPA PULBAJAR

River Sta.: 100

Add A Flow Change Location

Flow Change Location

Profile Names and Flow Rates

	River	Reach	RS	PF 1
1	PUNYAMATA	BANEPA PULBAJAR	100	20000

Steady Flow Boundary Conditions

☒ Set boundary for all profiles☐ Set boundary for one profile at a time

Available External Boundary Condition Types

Known W.S.

Critical Depth

Normal Depth

Rating Curve

Delete

Selected Boundary Condition Locations and Types

River	Reach	Profile	Upstream	Downstream
PUNYAMATA	BANEPA PULBAJAR	all		Normal Depth $S = 0.002$

Steady Flow Reach-Storage Area Optimization ...

OK

Cancel

Help

Enter to accept data changes.

Profile Output Table - Standard Table 1

File Options Std. Tables Locations Help

HEC-RAS Plan: PLAN River: PUNYAMATA Reach: BANEPA PULBAJAR Profile: PF 1

Reach	River Sta	Profile	Q Total (m3/s)	Min Ch El (m)	W.S. Elev (m)	Crit W.S. (m)	E.G. Elev (m)	E.G. Slope (m/m)	Vel Chnl (m/s)	Flow Area (m2)	Top Width (m)	Froude # Chl
BANEPA PULBAJAR	100	PF 1	20000.00	600.00	609.49	609.49	613.64	0.001077	9.15	2347.51	294.87	1.00
BANEPA PULBAJAR	75	PF 1	20000.00	550.00	562.25		564.24	0.000417	6.25	3198.90	322.46	0.63
BANEPA PULBAJAR	50	PF 1	20000.00	550.00	561.83		564.00	0.000472	6.52	3065.18	318.28	0.67
BANEPA PULBAJAR	25	PF 1	20000.00	550.00	561.27	559.26	563.71	0.000561	6.92	2889.68	312.72	0.73
BANEPA PULBAJAR	1	PF 1	20000.00	550.00	559.26	559.26	563.18	0.001129	8.77	2280.83	292.60	1.00

Cross Section Output

File Type Options Help

River: PUNYAMATA Profile: PF 1

Reach BANEPA PULBAJAR RS: 75 Plan: PLAN

Plan: PLAN PUNYAMATA BANEPA PULBAJAR RS: 75 Profile: PF 1

E.G. Elev (m)	564.24	Element	Left OB	Channel	Right OB
Vel Head (m)	1.99	Wt. n-Val.		0.015	
W.S. Elev (m)	562.25	Reach Len. (m)	500.00	500.00	500.00
Crit W.S. (m)		Flow Area (m2)		3198.90	
E.G. Slope (m/m)	0.000417	Area (m2)		3198.90	
Q Total (m3/s)	20000.00	Flow (m3/s)		20000.00	
Top Width (m)	322.46	Top Width (m)		322.46	
Vel Total (m/s)	6.25	Avg. Vel. (m/s)		6.25	
Max Chl Dpth (m)	12.25	Hydr. Depth (m)		9.92	
Conv. Total (m3/s)	979700.4	Conv. (m3/s)		979700.4	
Length Wtd. (m)	500.00	Wetted Per. (m)		324.88	
Min Ch El (m)	550.00	Shear (N/m2)		40.24	
Alpha	1.00	Stream Power (N/m s)		251.59	
Frctn Loss (m)	0.22	Cum Volume (1000 m3)		4347.36	
C & E Loss (m)	0.02	Cum SA (1000 m2)		469.27	

Errors, Warnings and Notes

Warning: The velocity head has changed by more than 0.5 ft (0.15 m). This may indicate the need for additional cross sections.