

Palestine Polytechnic University
College of Engineering
Civil Engineering Dep
Surveying and Geomatics Engineer

Design and Rehaulitation Haska Road

Done by:

Anwar Shweiki

Osaid Imar

SUPERVISOR:

Eng . Musab Shahin

ABBREVIATIONS AND SYMBOLS

GENERAL

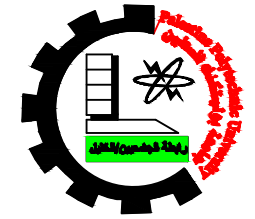
A.I	ANGLE IRON
B.C	BASECOURSE
B.CL	BOX CULVERT
BM	BENCH MARK
B.P.	BREAK POINT
CL	CENTER LINE
cm	CENTIMETER
CWY	CARRIAGEWAY
D.B.	DITCH BLOCK
DRG.	DRAWING
ELEV.	ELEVATION
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SHOULDER
G.A.	GREEN AREA
G.D	GUARD RAIL
G.W	GRAVITY WALL
H.W	HEAD WALL
KM	KILOMETER
LHS	LEFT HAND SIDE
M	METER
M2	SQUARE METER
M3	CUBIC METER
M.C.	MEDIUM CURING ASPHALT
M.T.	MAIN TIE
NO.	NUMBER
P	PARKING
P	POLE OR POST
P.C	PIPE CULVERT
R	REFERENCE
R.C	RAPID CURING ASPHALT
RC.W	REINFORCED CONCRETE WALL
RHS	RIGHT HAND SIDE
R.W	RETAINING WALL
S	SLOPE
S.AP	SPECIAL APRON
S.B.	SUBBASE
S.D.	SPECIAL DITCH
S.G.	SUBGRADE
S.H.W.	STRAIGHT HEAD WALL
S.P.	SLOPE PROTECTION
St.w	STONE WALL
S.W	SIDE WALK
T	TIE
TOP	TOPPING
VAR.	VARIABLE
W.MII	WATER MANIOLE
W.P	WATER PIPE
W.W	WING WALL
~	APPROXIMATE
W.P0	WATER LINE MARKER POST
JDECO	JERUSALEM DISTRICT ELECTRICAL COMPANY
PWA	PALESTINIAN WATER AUTHORITY

HORIZONTAL & VERTICAL GEOMETRY

AD	ALGEBRIC SLOPE DIFFERENCE
BVCE	BEGINING OF VERTICAL CURVE ELEVATION
BVCS	BEGINING OF VERTICAL CURVE STATION
D	DEGREE OF CURVE , SUBSTENDING 25m. CHORD
E	EASTING COORDINATES
E	EXTERNAL DISTANCU
EVCE	END OF VERTICAL CURVE ELEVATION
EVCS	END OF VERTICAL CURVE STATION
K	VERTICAL CURVE COEFFICIENT = LVC / AD
L	LENGTH OF HORIZONTAL CURVE
L.V.C.	LENGTH OF VERTICAL CURVE
N	NORTHING COORDINATES
N.G.L	NATURAL GROUND LEVEL
P.C.	POINT OF CURVATURE
P.G.L	PROPOSED GROUND LEVEL
P.I	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
P.V.I	POINT OF VERTICAL INTERSECTION
R	RADIUS OF HORIZANTAL CURVE
S.E.	SUPERELEVATION
STA.	STATION
T	TANGENT LENGTH
Δ	EXTERNAL ANGLE IN DEGREES,MINUTES,SECONDS
-, + %	PERCENT OF GRADE
D.S	DESIGN SPEED
C.W	CURVE WIDENING

List of Drawings	
Sheet No.	Description
A-01	GENERAL NOTES AND LIST OF DRAWING
A-02	KEY MAP FOR ROAD
00 TO 08	PLAN & PROFILE FOR ROAD
D-01 TO D-16	TYPICAL SECTION & DETAIL FOR ROAD
S-01 TO S-38	CROSS SECTION

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4. ALL EXISTING STONE WALL AND CONCRETE WALL LOCATED IN CARRIAGE WAY TO BE REMOVED AND CONSTRUCT NEW ONE.
5. ALL EXISTING TREE LOCATED IN CARRIAGE WAY TO BE RELOCATED.

LEGEND FOR PLAN

PROP. CENTERLINE	----
PROP. EDGE OF PAVMENT	—————
PROP. CURB STONE	— — — — —
ASPHALT COURSE	
CONCRETE FOR SIDE WALK	
INTER LOCK MEDIAN	
PROP. CULVERT	
PROP. STONE WALL	—————
PROP. RETAINING WALL	—————
PROP. LIGHTING POLE	
EX. PAVEMENT	-----
EX. CONCRETE WALL	—————
EX. STONE WALL	—————
EX. DIRT ROAD	-----
EX. WATER LINE	— W — W —
EX. FENCE	— FE — FE —
EX. BASE COURSE SHOULDER	-----
EXISTING BUILDING	
EXISTING BARAX	
TRAVERSE STATION	
EXISTING TREE	
WATER VALVE , VALVE CIAMBER	
ELECTRIC POLE	
HIGH VOLTAGE POLE	
TELEPHONE POLE, MANHOLE	TP

LEGEND FOR PROFILE

EXIST. GROUND	-----
PROPOSED PGL	-----

**Design and Rehaulitation
Haska Road**

**SUPERVIOSOR
Eng . Musab Shahin**

TEAM work

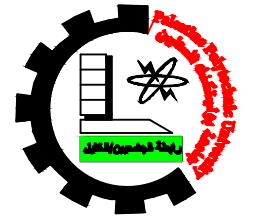
Anwar Shwciki

Osaid Imar

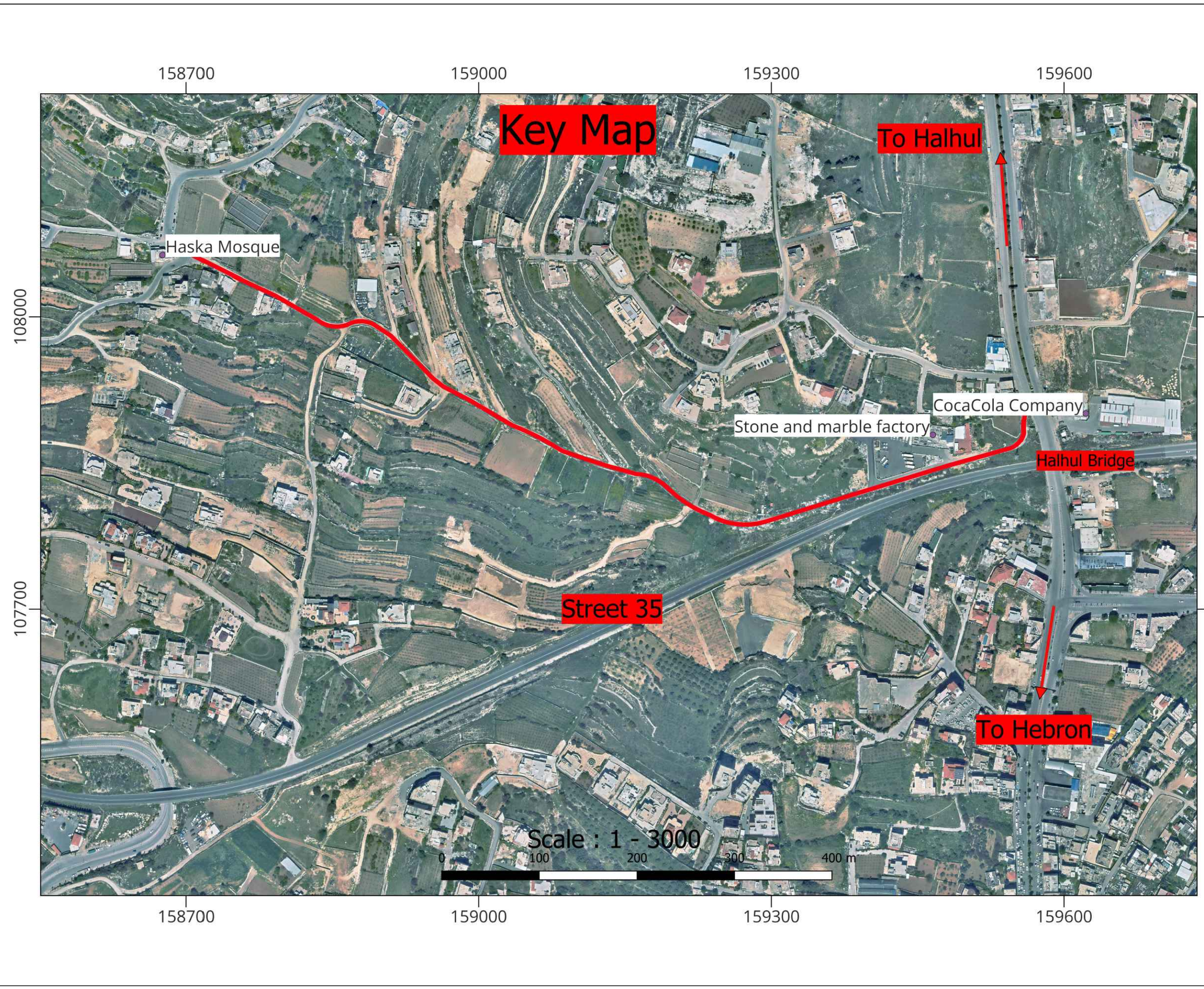
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Date January, 2024

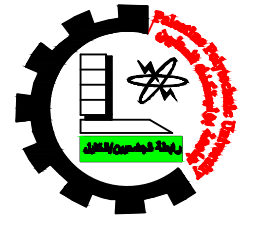
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SUPERVISOR Eng . Musab Shahin	
TEAM work Anwar Shweiki Osaid Imar	
Drawing Title KEY MAP	
Date January, 2024	
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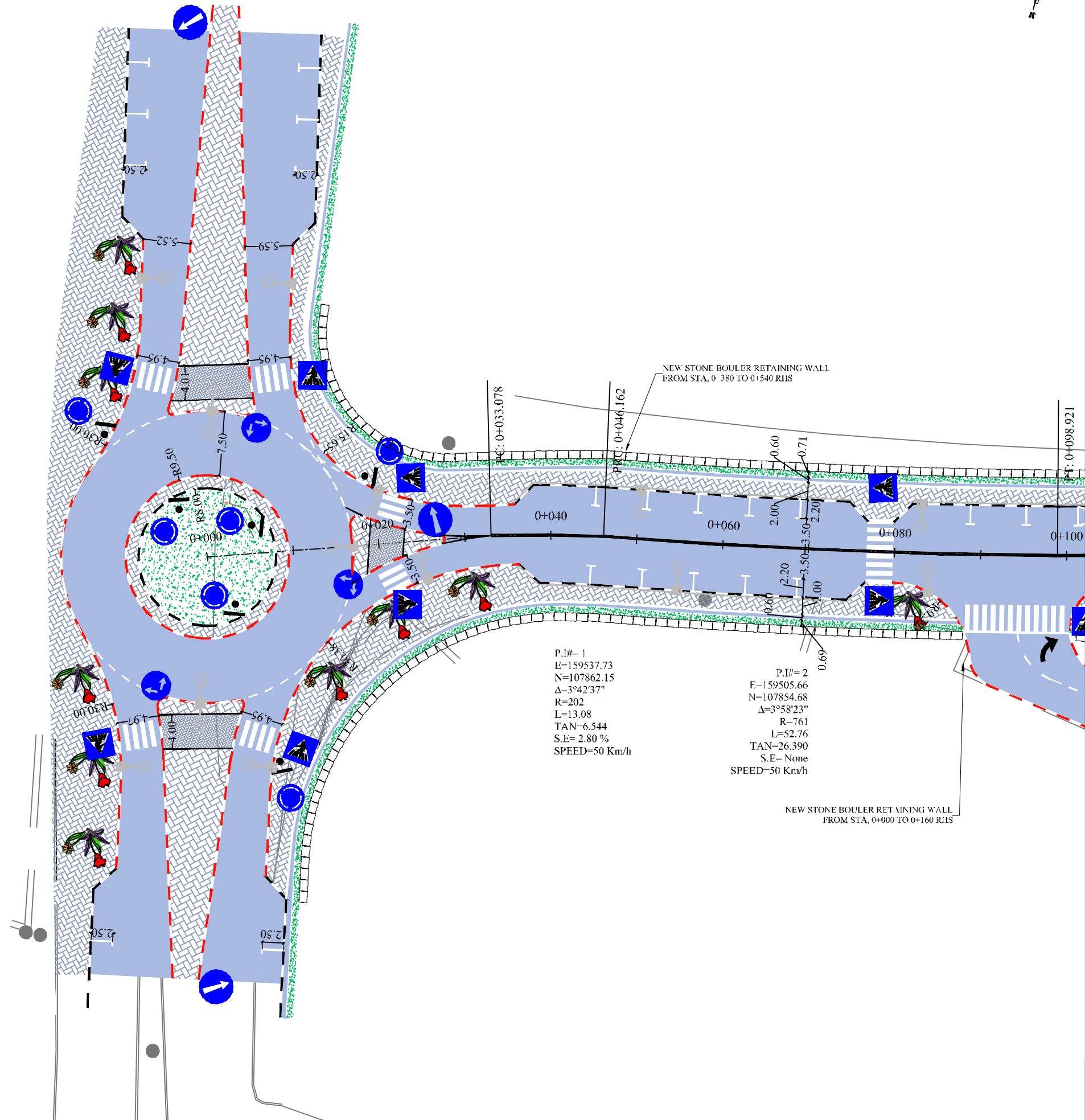
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- CONCRETE FOR SIDE WALK
- INTER LOCK MEDIAN
- PROP. CULVERT
- PROP. STONE WALL
- PROP. RETAINING WALL
- PROP. LIGHTING POLE
- EX. PAVEMENT
- EX. CONCRETE WALL
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- WATER VALVE, VALVE CHAMBER
- ELECTRIC POLE
- HIGH VOLTAGE POLE
- TELEPHONE POLE, MANHOLE

LEGEND FOR PROFILE

- EXIST. GROUND
- PROPOSED PGL



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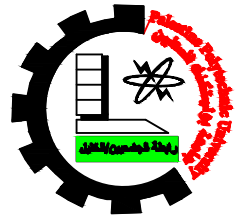
SUPERVISOR
 Eng . Musab Shahin

TEAM work
 Anwar Shweiki
 Osaid Imar

Drawing Title **PLAN**
 Roundabout

Date **January, 2024**

Scale **H 1:500**
V 1:200 Sheet No. **00**



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LEGEND FOR PROFILE

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TEAM work

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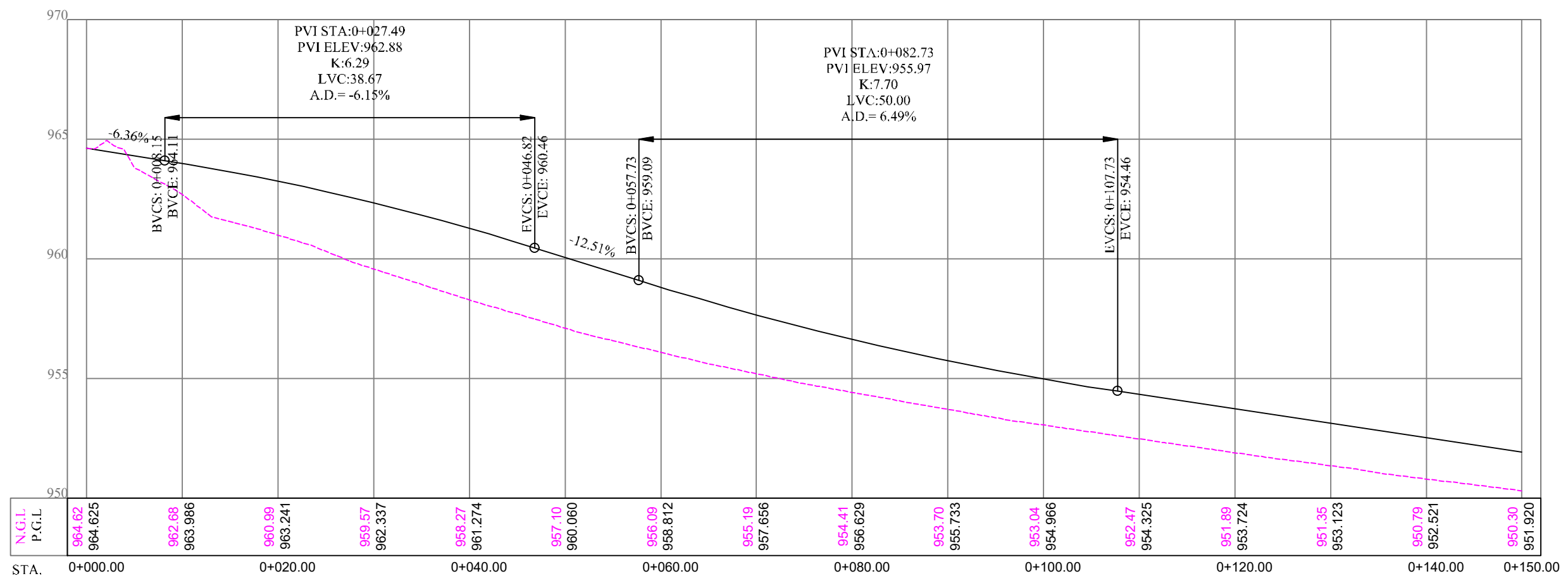
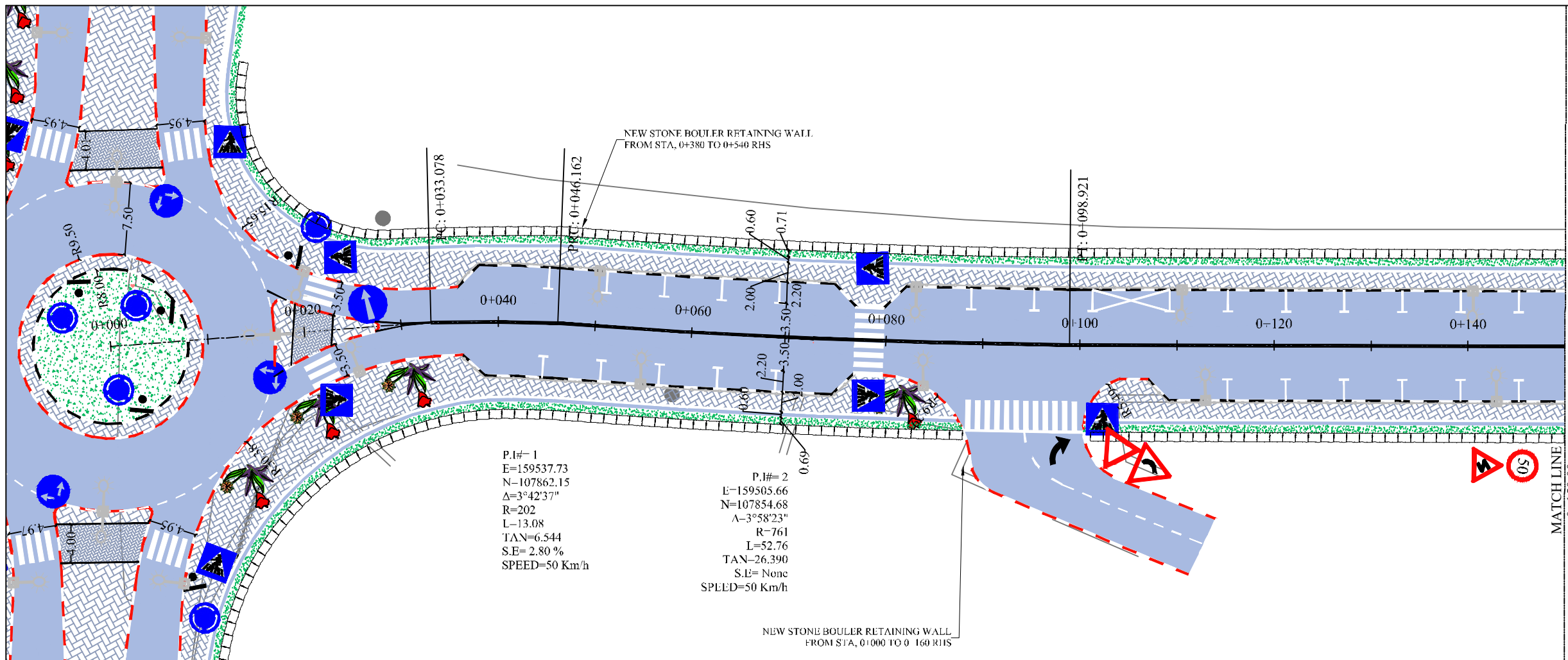
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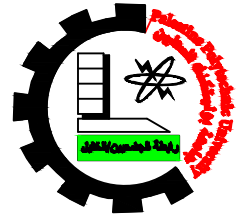
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N.G.L. P.G.L	964.62 964.625	962.68 963.986	960.99 963.241	959.57 962.337	958.27 961.274	957.10 960.060	956.09 958.812	955.19 957.656	954.41 956.629	953.70 955.733	953.04 954.966	952.47 954.325	951.89 953.724	951.35 953.123	950.79 952.521	950.30 951.920



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LEGEND FOR PROFILE

- EXIST. GROUND
- PROPOSED PGL

**Design and Rehaillitation
Haska Road**

SUPERVISOR
 Eng . Musab Shahin

TEAM work

Anwar Shweiki

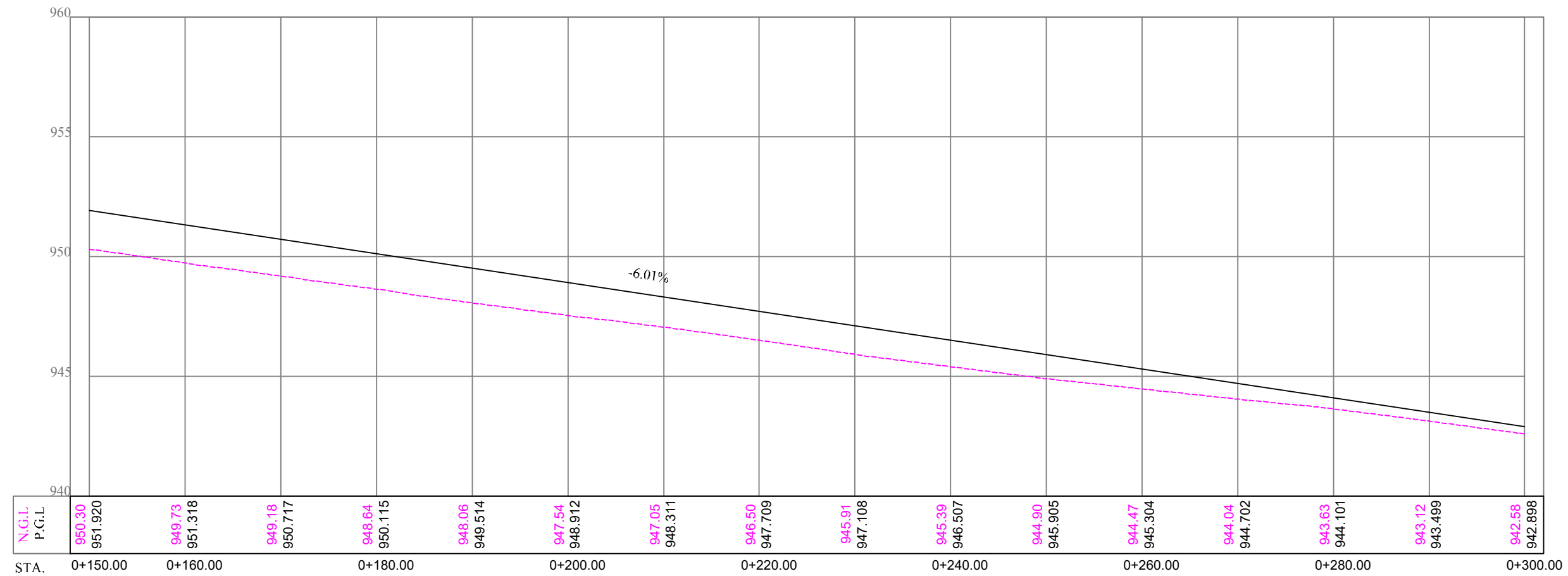
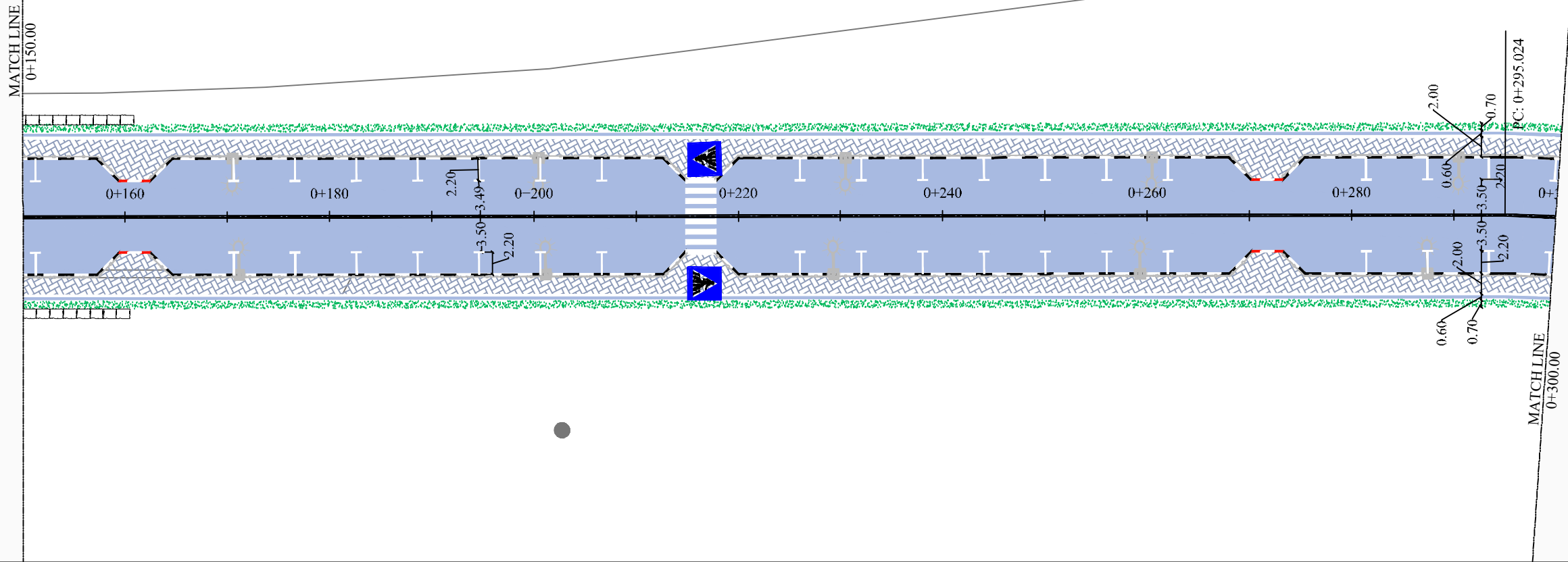
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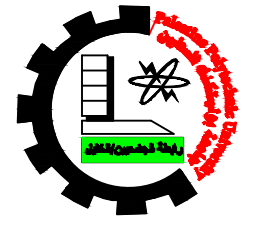
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Date January, 2024

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Sheet No.
 2





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Haska Road**

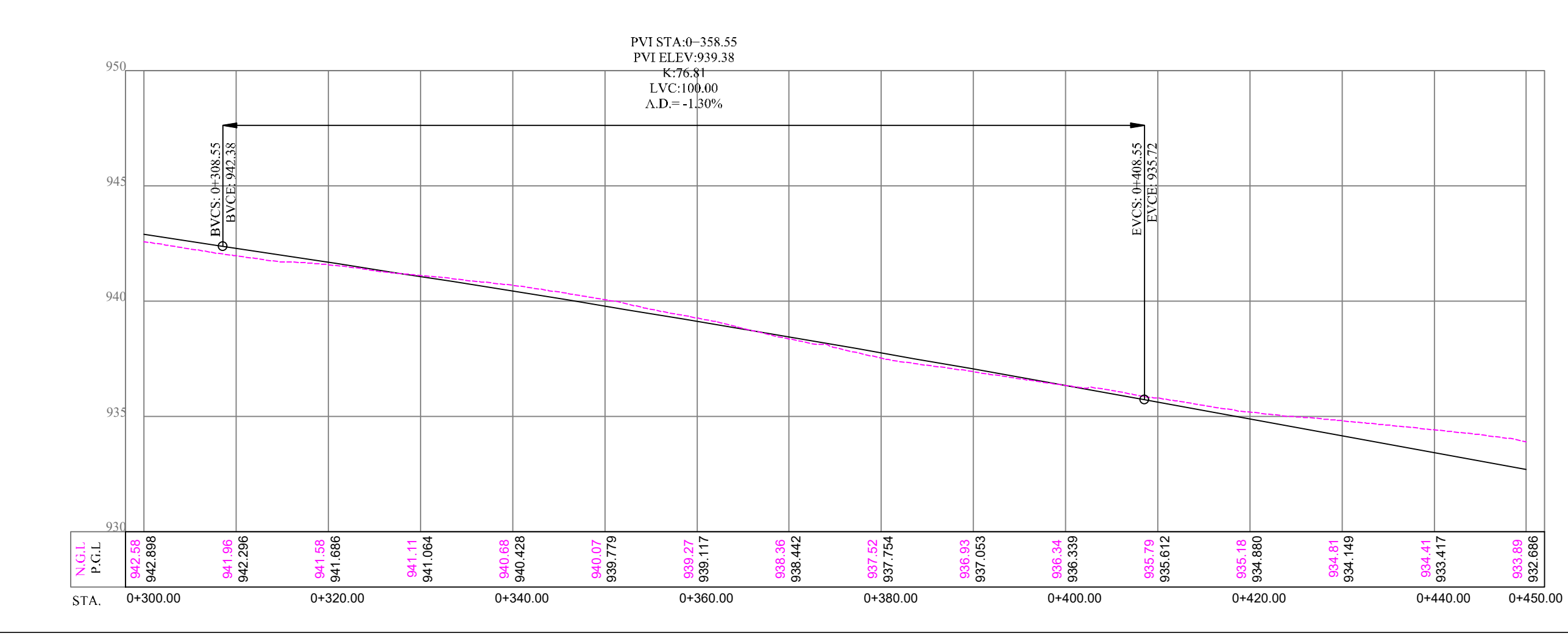
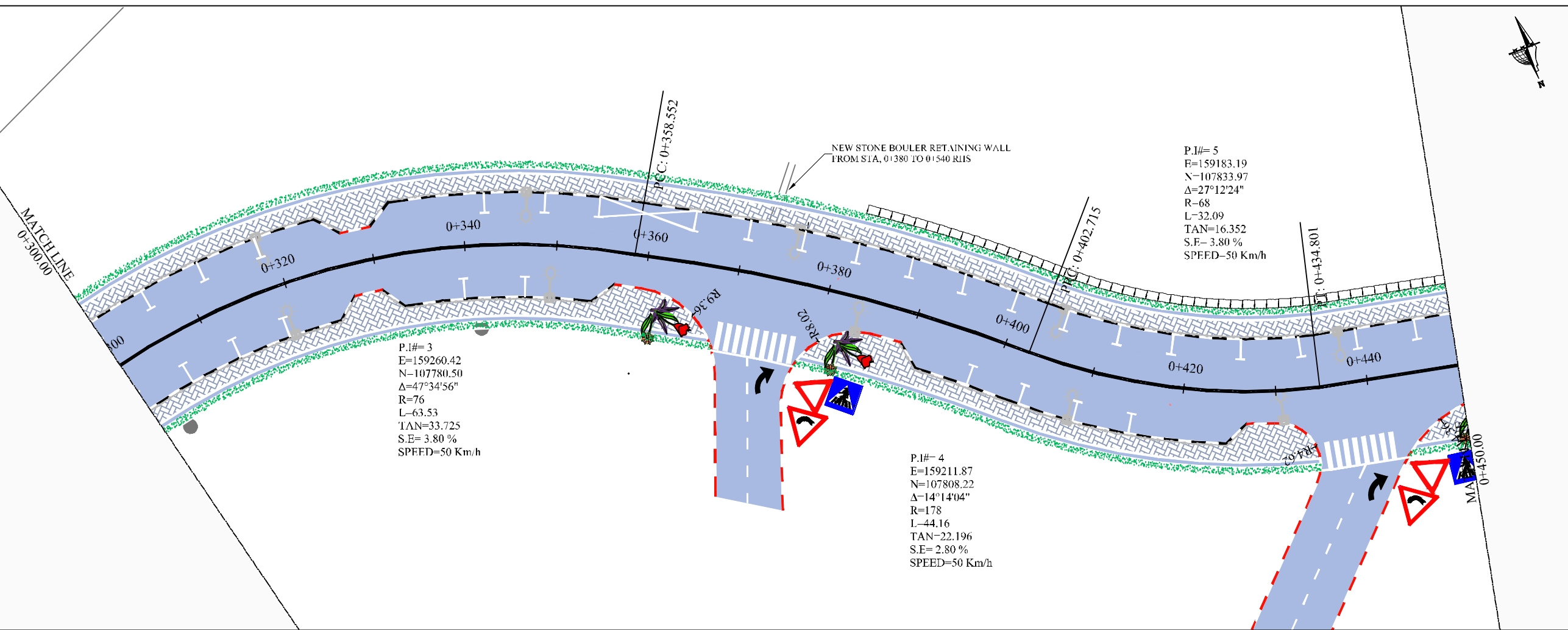
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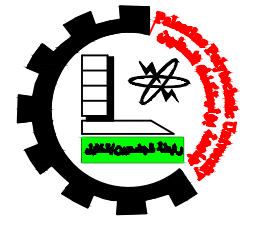
TEAM work
Anwar Shweiki
Osaid Imar

Drawing Title **PLAN & PROFILE**
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Scale **H 1:500
V 1:200** Sheet No. **3**





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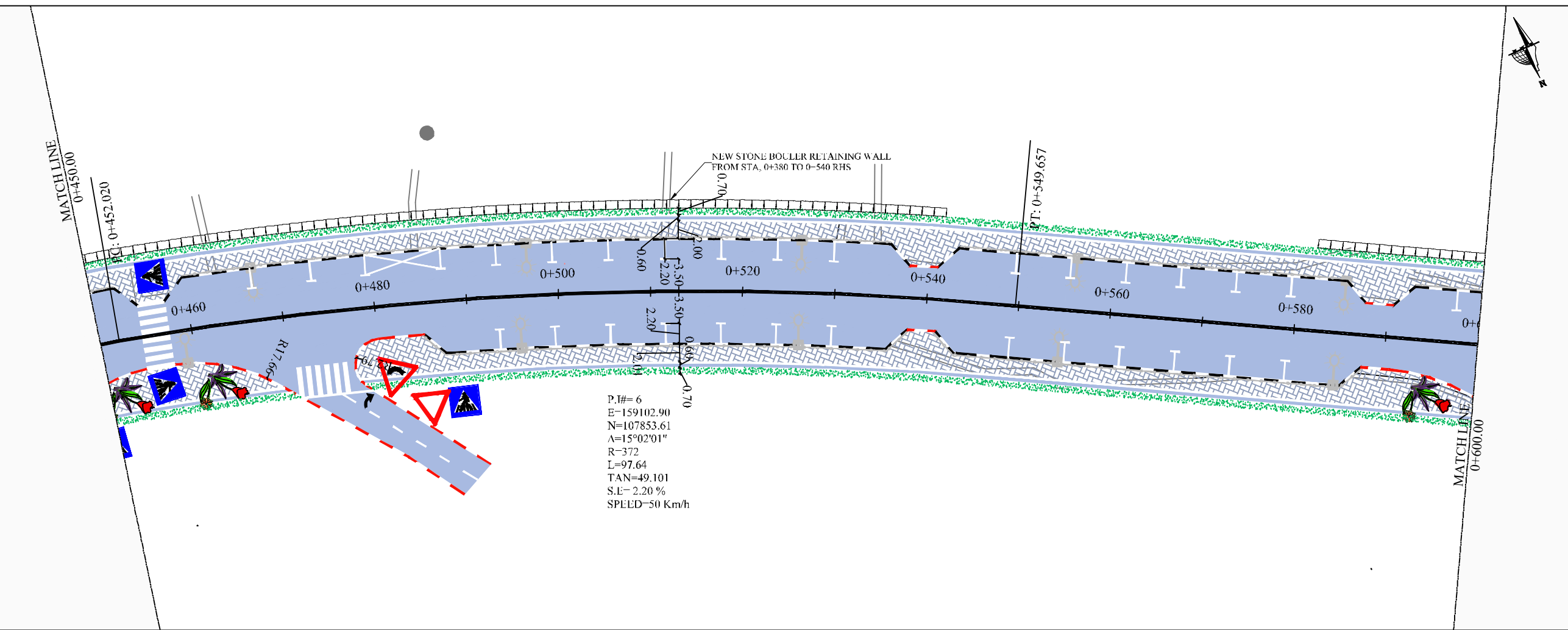
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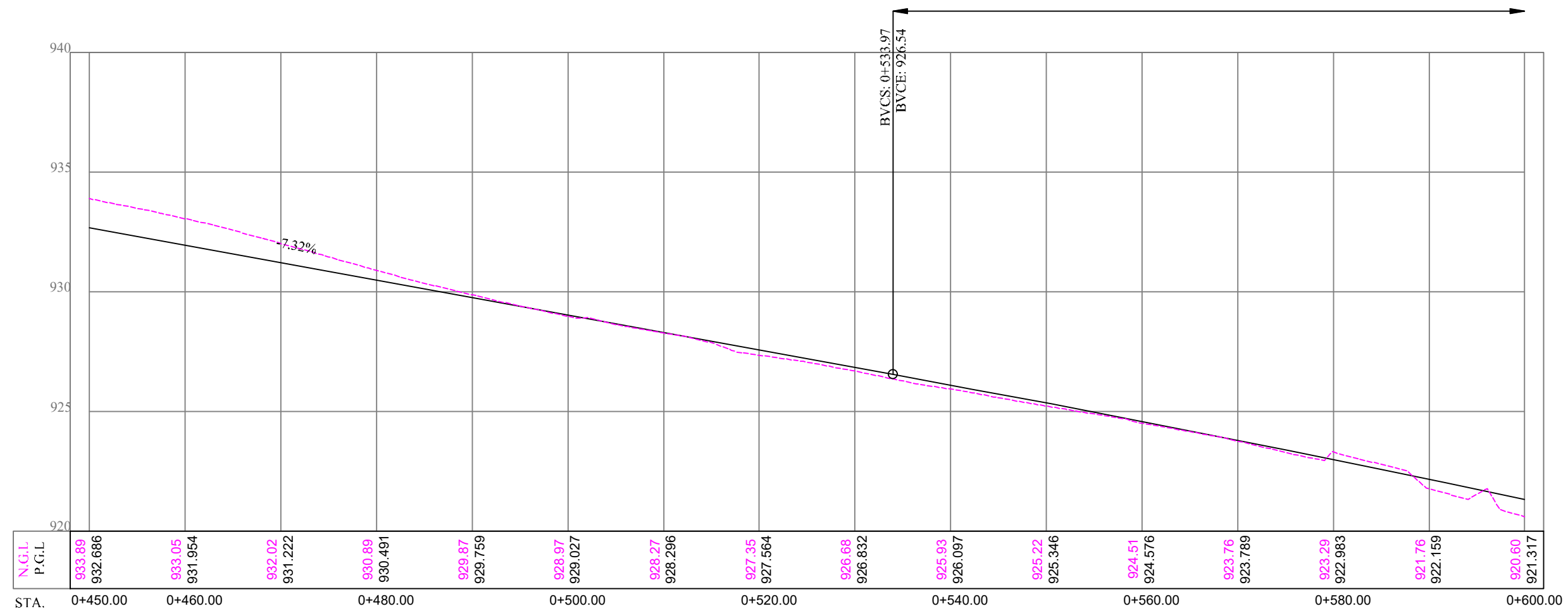
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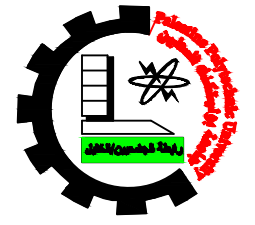
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 Sheet No. 4



L.V.C.: 100.00
 A.D.: -1.81%





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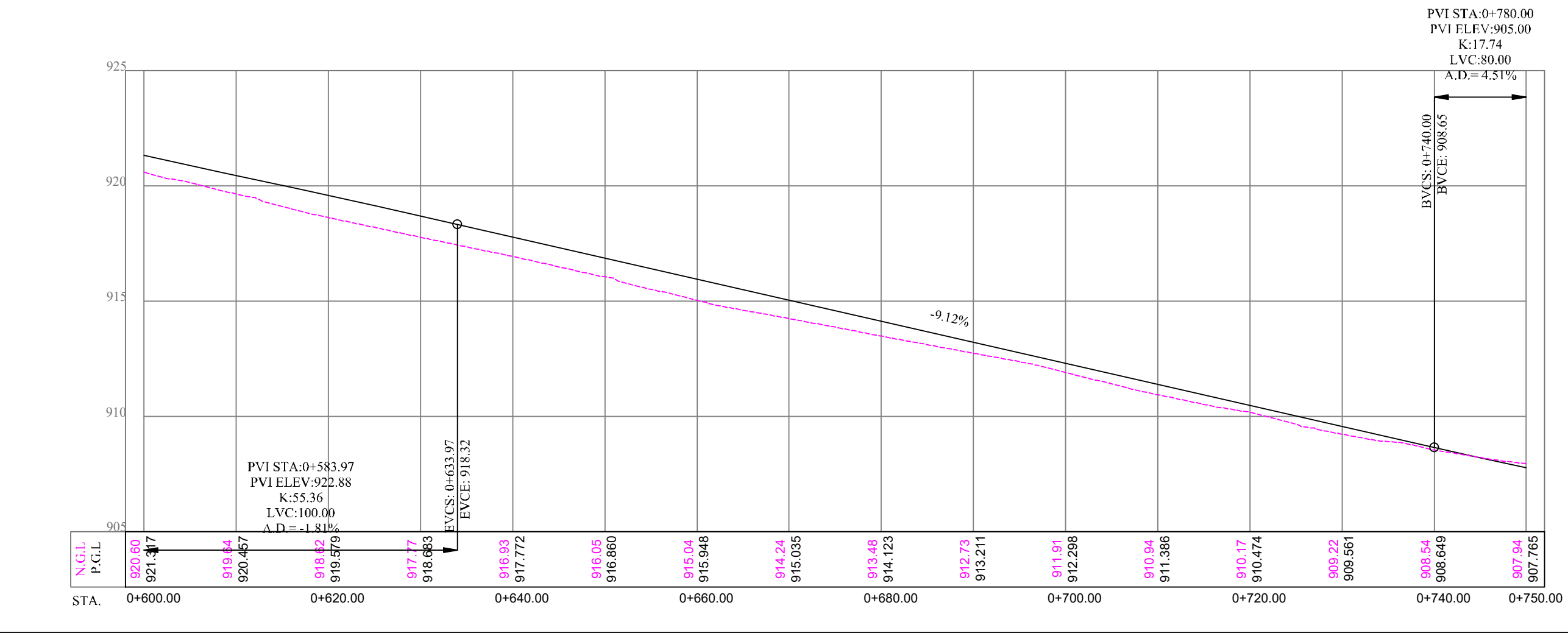
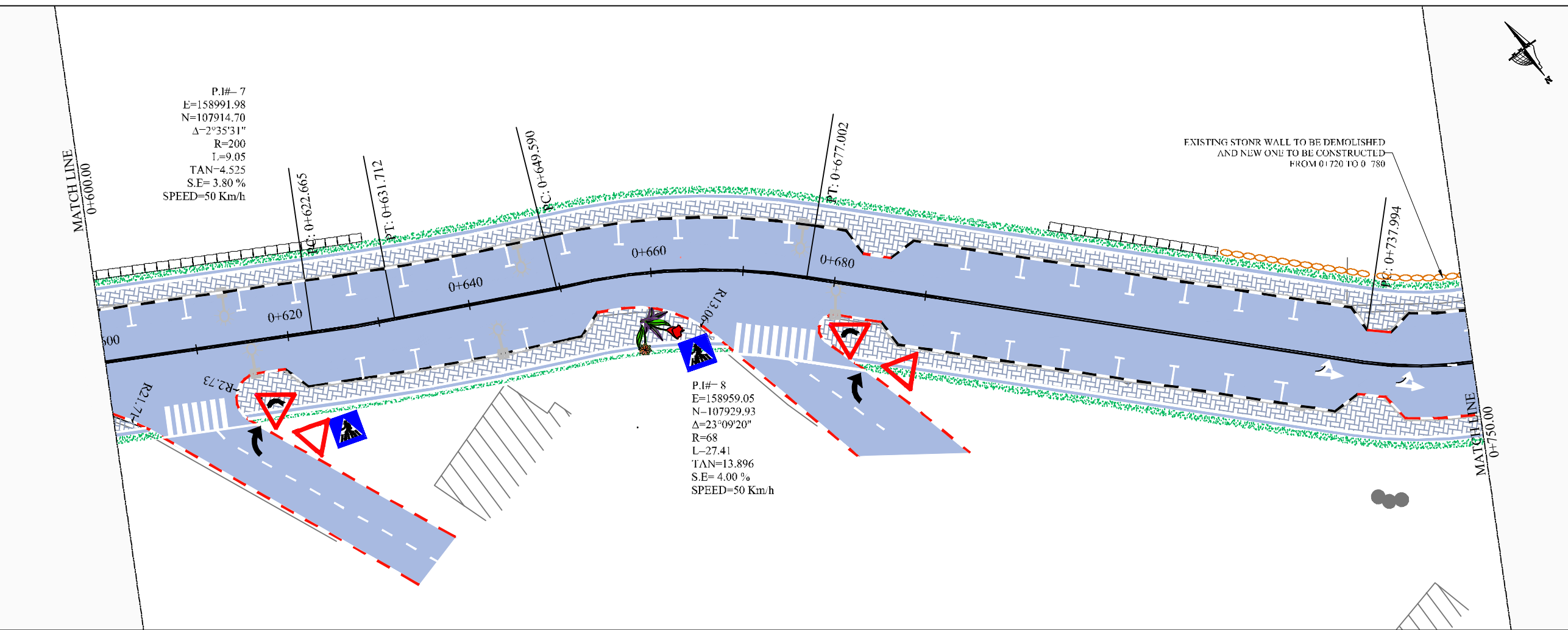
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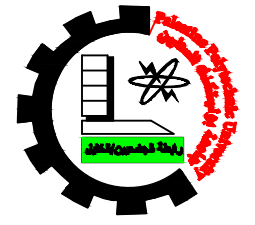
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LEGEND FOR PROFILE

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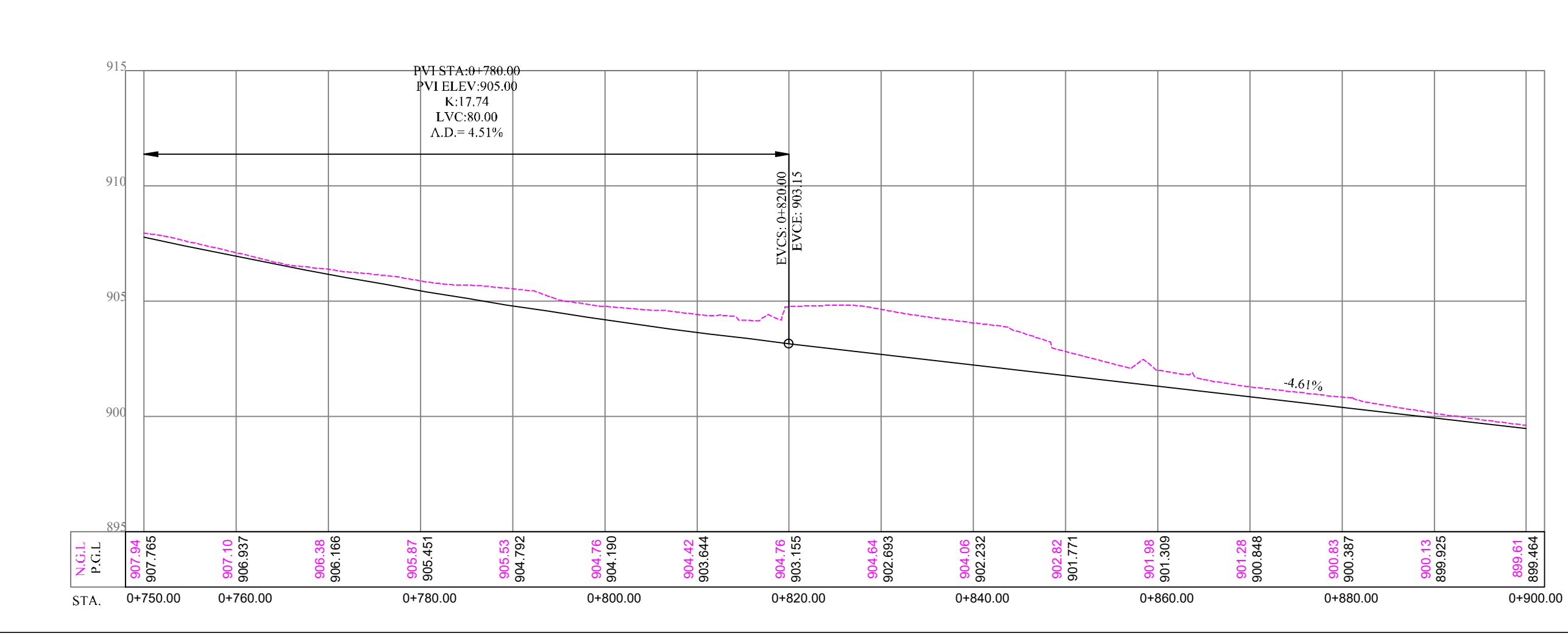
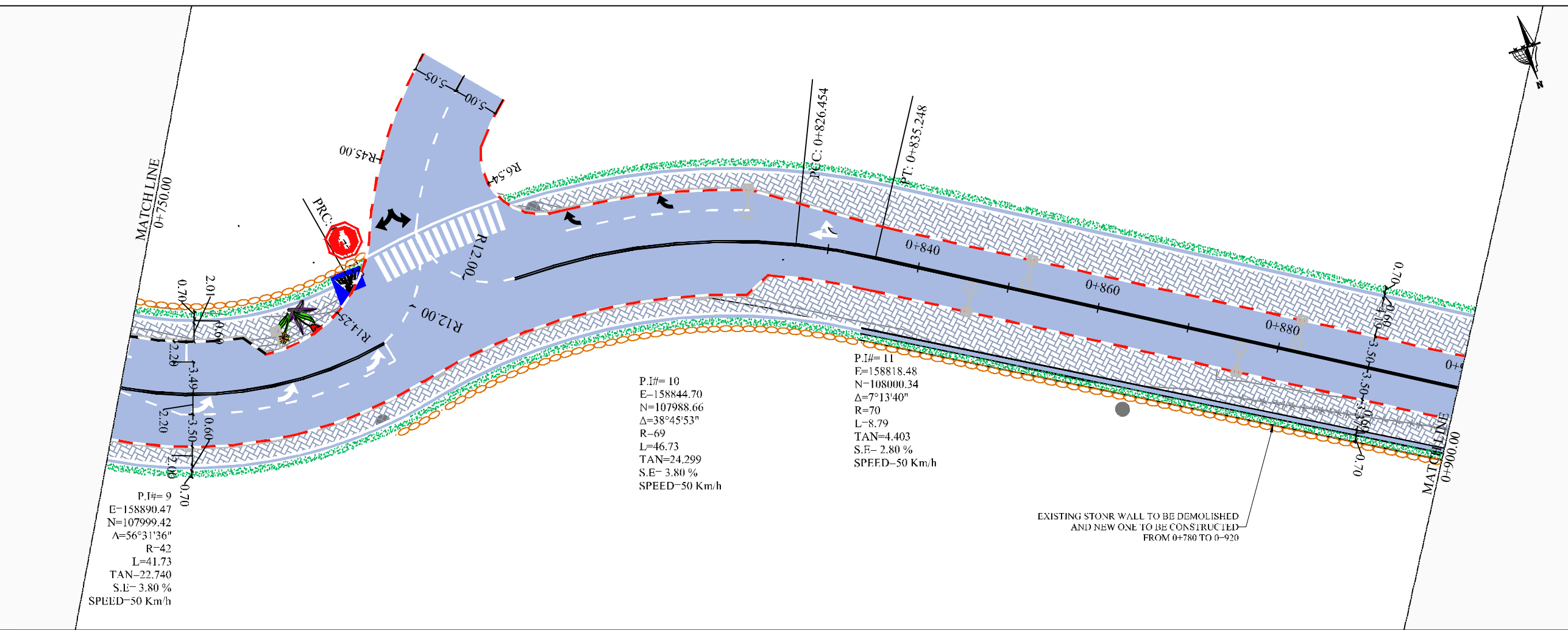
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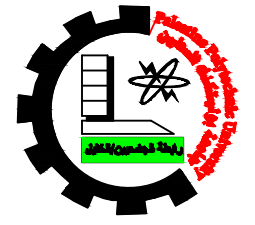
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PROP. LIGHTING POLE	---
EX. PAVEMENT	---
EX. CONCRETE WALL	---
EX. STONE WALL	---
EX. DIRT ROAD	---
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EX. BASE COURSE SHOULDER	---
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SUPERVISOR
 Eng . Musab Shahin

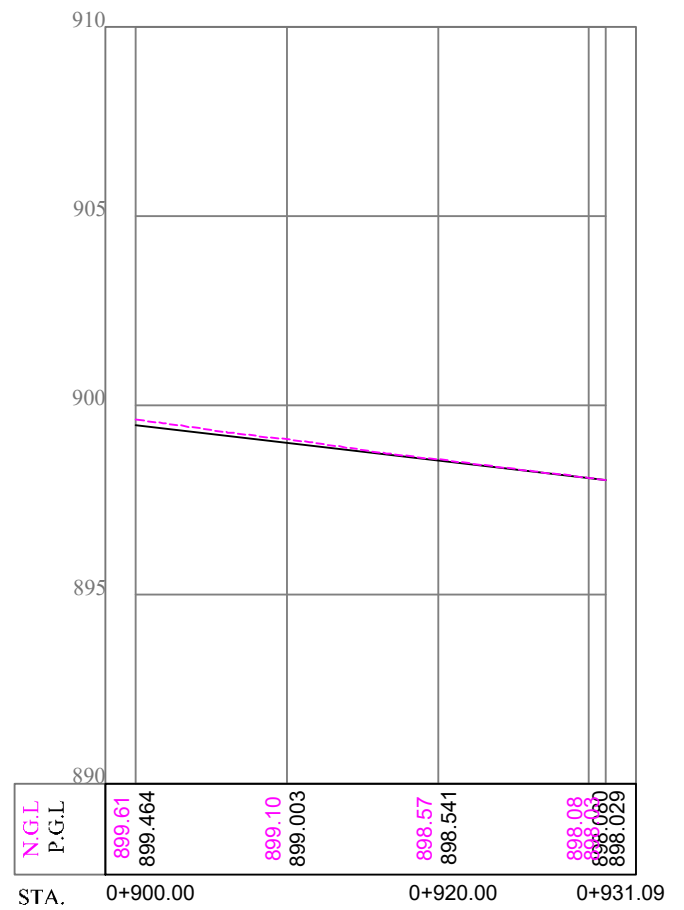
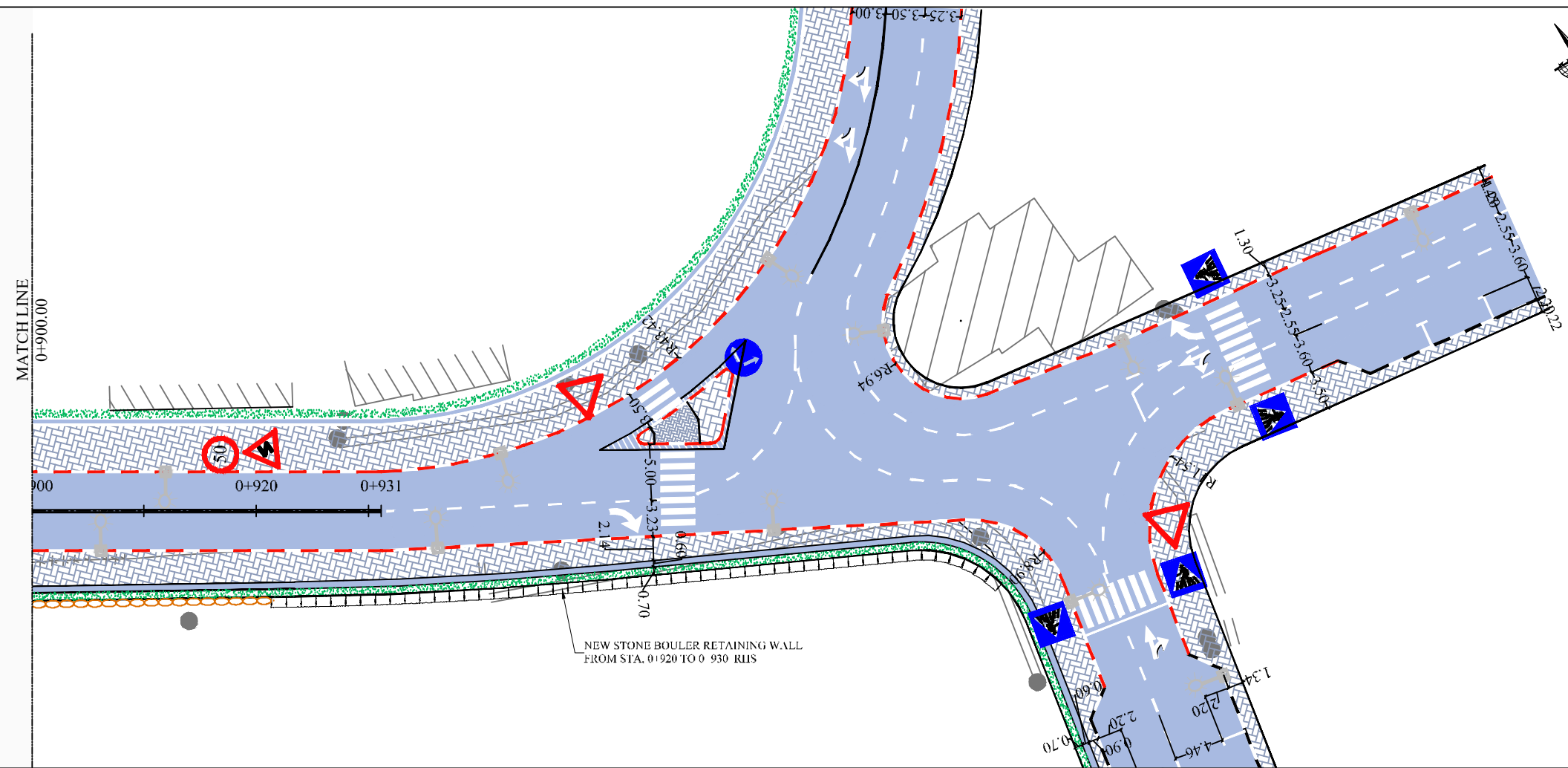
TEAM work
 Anwar Shweiki
 Osaid Imar

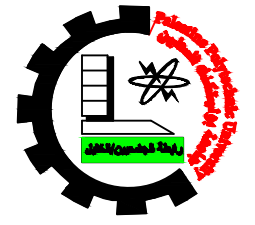
Drawing Title **PLAN & PROFILE**
 From Sta. 0+900.00 To 0+931.09

Date **January, 2024**

Scale **H 1:500**
V 1:200

Sheet No. **7**





- GENERAL NOTES:**
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
 2. ALL OTHER DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
 3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
 4. ALL EXISTING STONE WALL AND CONCRETE WALL LOCATED IN CARRIAGE WAY TO BE REMOVED AND CONSTRUCT NEW ONE.
 5. ALL EXISTING TREE LOCATED IN CARRIAGE WAY TO BE RELOCATED.

LEGEND FOR PLAN

PROP. CENTERLINE	---
PROP. EDGE OF PAVEMENT	---
PROP. CURB STONE	---
ASPHALT COURSE	---
CONCRETE FOR SIDE WALK	---
INTER LOCK MEDIAN	---
PROP. CULVERT	---
PROP. STONE WALL	---
PROP. RETAINING WALL	---
PROP. LIGHTING POLE	---
EX. PAVEMENT	---
EX. CONCRETE WALL	---
EX. STONE WALL	---
EX. DIRT ROAD	---
EX. WATER LINE	---
EX. FENCE	---
EX. BASE COURSE SHOULDER	---
EXISTING BUILDING	---
EXISTING BARAX	---
TRAVERSE STATION	---
EXISTING TREE	---
WATER VALVE, VALVE CHAMBER	---
ELECTRIC POLE	---
HIGH VOLTAGE POLE	---
TELEPHONE POLE, MANHOLE	---

LEGEND FOR PROFILE

EXIST. GROUND	---
PROPOSED PGL	---

**Design and Rehaillitation
Haska Road**

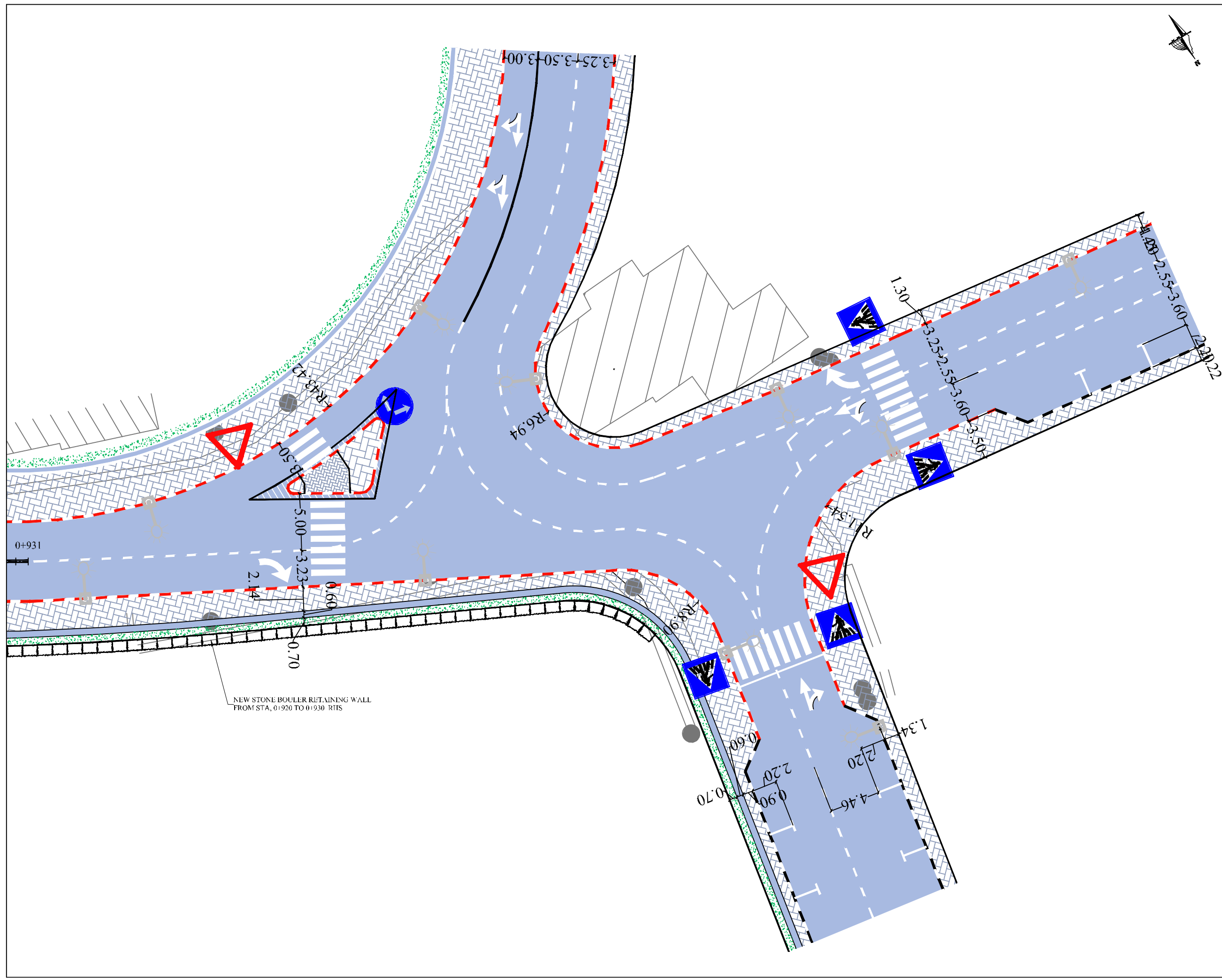
SUPERVISOR
Eng . Musab Shahin

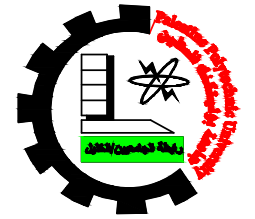
TEAM work
Anwar Shweiki
Osaid Imar

Drawing Title
INTERSECTION

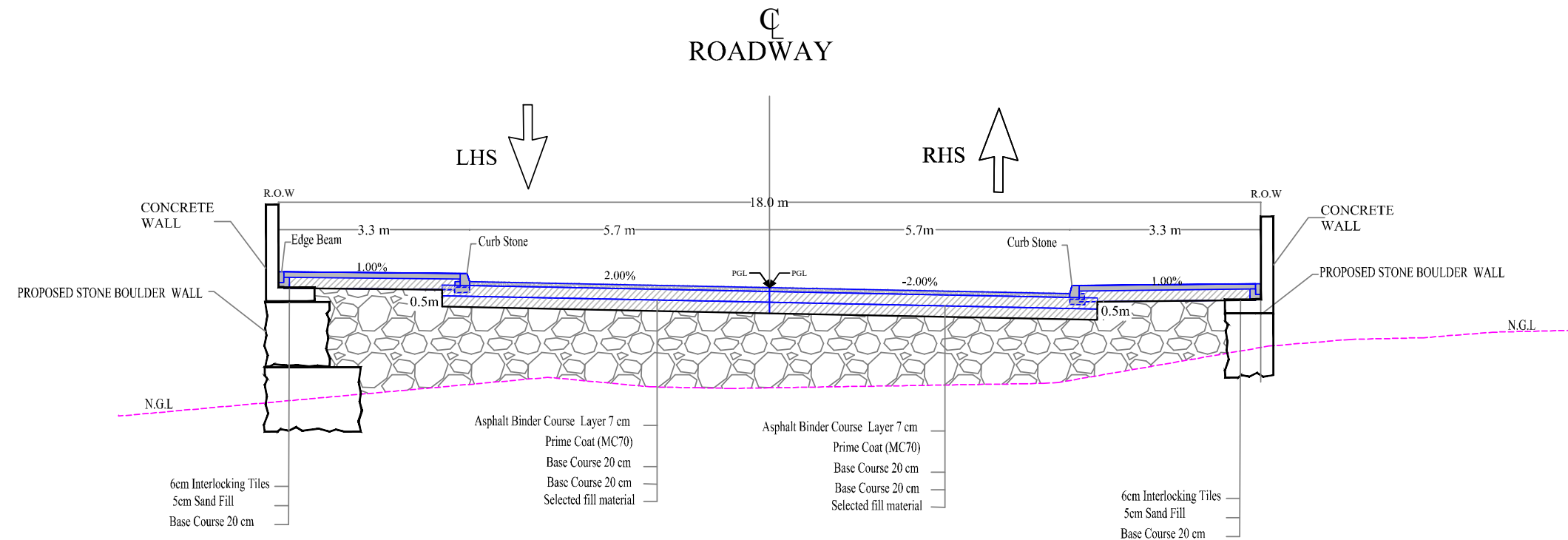
Date January, 2024

Scale	H 1:500 V 1:200	Sheet No. 8
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TYPICAL CROSS SECTION NO.01
 From STA 0+000m To STA 0+190m

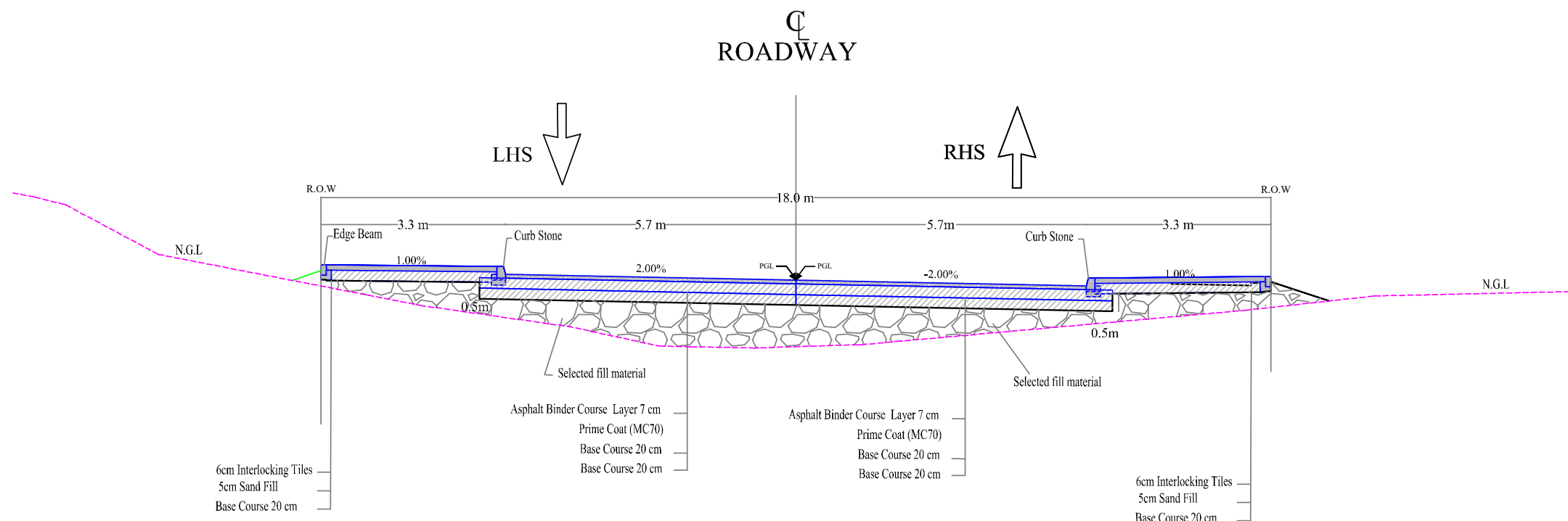
GENERAL NOTE:
 CROSS SECTIONS CONTAINED HEREIN ARE PROVIDED FOR INFORMATION ONLY. EXISTING GRADE LINE MAY DIFFER FROM THE ACTUAL FIELD CONDITION. THE CONTRACTOR SHALL VERIFY EXISTING GROUND LINE PERIODICALLY AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES THAT SIGNIFICANTLY IMPACT CONSTRUCTION OF THE PROPOSED FEATURES. DESIGN FEATURES DEPICTED ON CROSS SECTIONS MAY DIFFER FROM WHAT IS SHOWN ON THE PLAN AND PROFILE SHEETS. CONTRACTOR SHALL REFER TO THE PLAN AND PROFILE SHEETS TO DETERMINE THE LOCATION, DIMENSIONS, LIMITS AND EXTENTS OF PROPOSED DESIGN FEATURES.

Design and Rehalitation Haska Road	
SUPERVISOR Eng . Musab Shahin	
TEAM work	
Anwar Shweiki Osaid Imar	
Drawing Title TYPICAL CROSS SECTION FROM STA 0+000 TO STA 0+190	
Date January, 2024	
Scale N.T.S	Sheet No. D-01



GENERAL NOTES:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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TYPICAL CROSS SECTION NO.02
 From STA 0+190m To STA 0+270m

GENERAL NOTE:
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**Design and Rehalitation
 Haska Road**

**SUPERVISOR
 Eng . Musab Shahin**

TEAM work

Anwar Shweiki

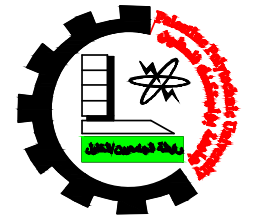
Osaid Imar

Drawing Title
**TYPICAL CROSS SECTION
 FROM STA 0+190 TO STA 0+270**

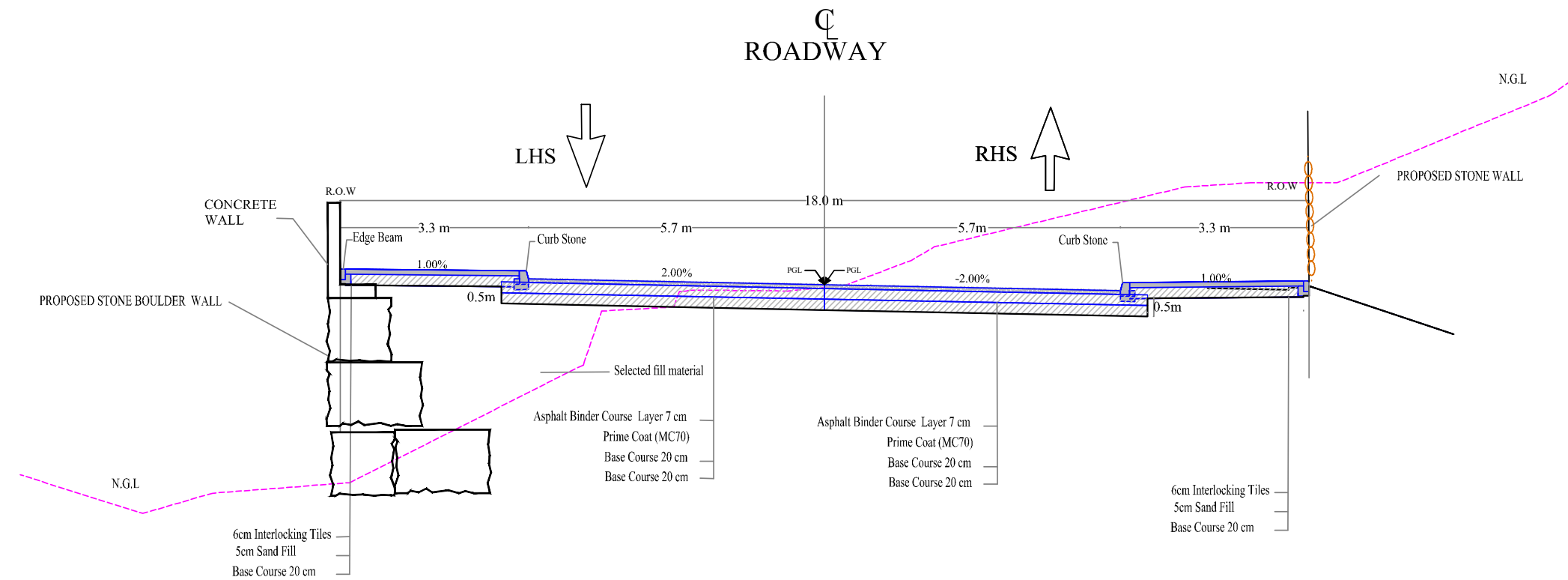
Date January, 2024

Scale **N.T.S**

Sheet No.
D-02



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1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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TYPICAL CROSS SECTION NO.03
 From STA 0+270m To STA 0+760m

GENERAL NOTE:
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**Design and Rehalitation
 Haska Road**

**SUPERVISOR
 Eng . Musab Shahin**

TEAM work

Anwar Shweiki

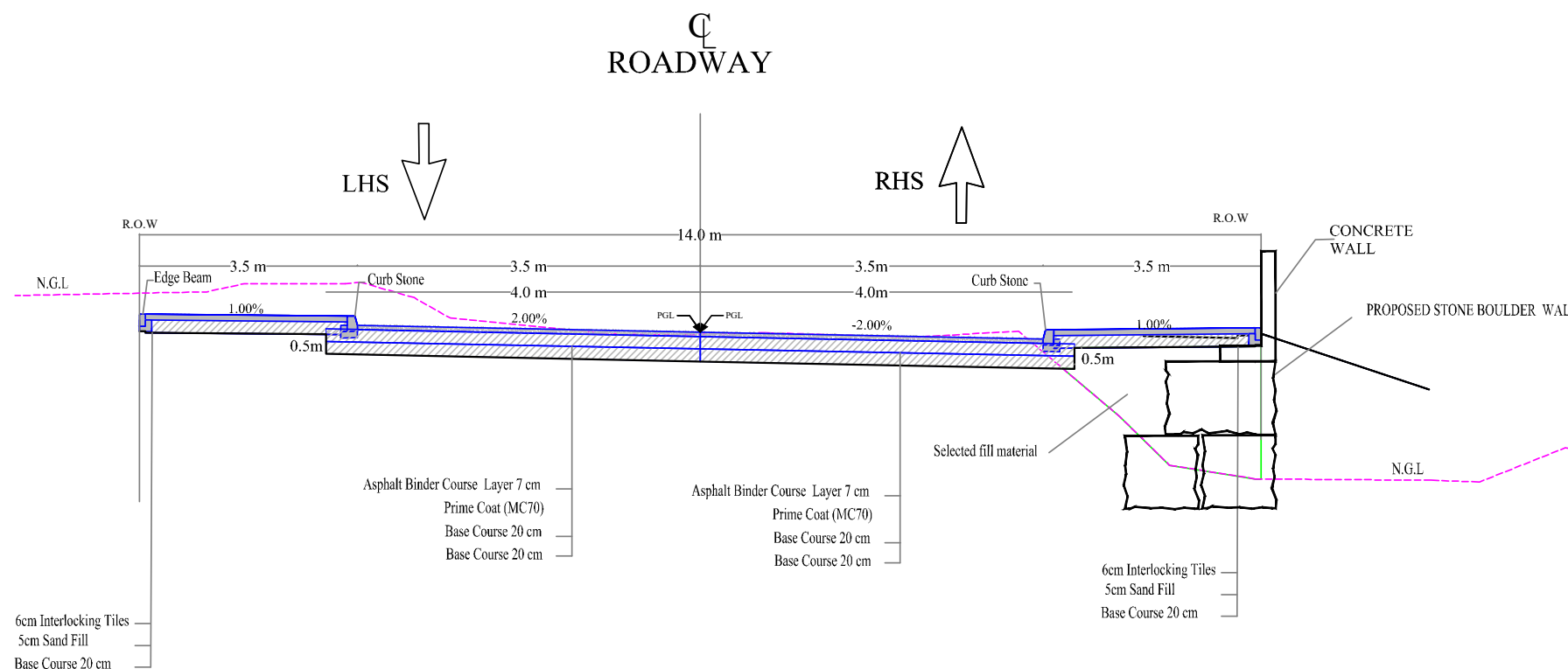
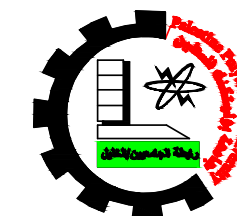
Osaid Imar

Drawing Title
**TYPICAL CROSS SECTION
 FROM STA 0+270 TO STA 0+760**

Date January, 2024

Scale **N.T.S**

Sheet No.
D-03



TYPICAL CROSS SECTION NO.04
 From STA 0+760m To STA 0+930m

GENERAL NOTE:
 CROSS SECTIONS CONTAINED HEREIN ARE PROVIDED FOR INFORMATION ONLY.
 EXISTING GRADE LINE MAY DIFFER FROM THE ACTUAL FIELD CONDITION. THE
 CONTRACTOR SHALL VERIFY EXISTING GROUND LINE PERIODICALLY AND NOTIFY
 THE ENGINEER OF ANY DISCREPANCIES THAT SIGNIFICANTLY IMPACT
 CONSTRUCTION OF THE PROPOSED FEATURES. DESIGN FEATURES DEPICTED ON
 CROSS SECTIONS MAY DIFFER FROM WHAT IS SHOWN ON THE PLAN AND PROFILE
 SHEETS. CONTRACTOR SHALL REFER TO THE PLAN AND PROFILE SHEETS TO
 DETERMINE THE LOCATION, DIMENSIONS, LIMITS AND EXTENTS OF PROPOSED
 DESIGN FEATURES.

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**Design and Rehaulitation
 Haska Road**

**SUPERVIOSOR
 Eng . Musab Shahin**

TEAM work

Anwar Shweiki

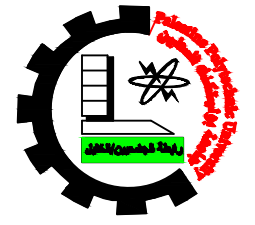
Osaid Imar

Drawing Title
**TYPICAL CROSS SECTION
 FROM STA 0+760 TO STA 0+930**

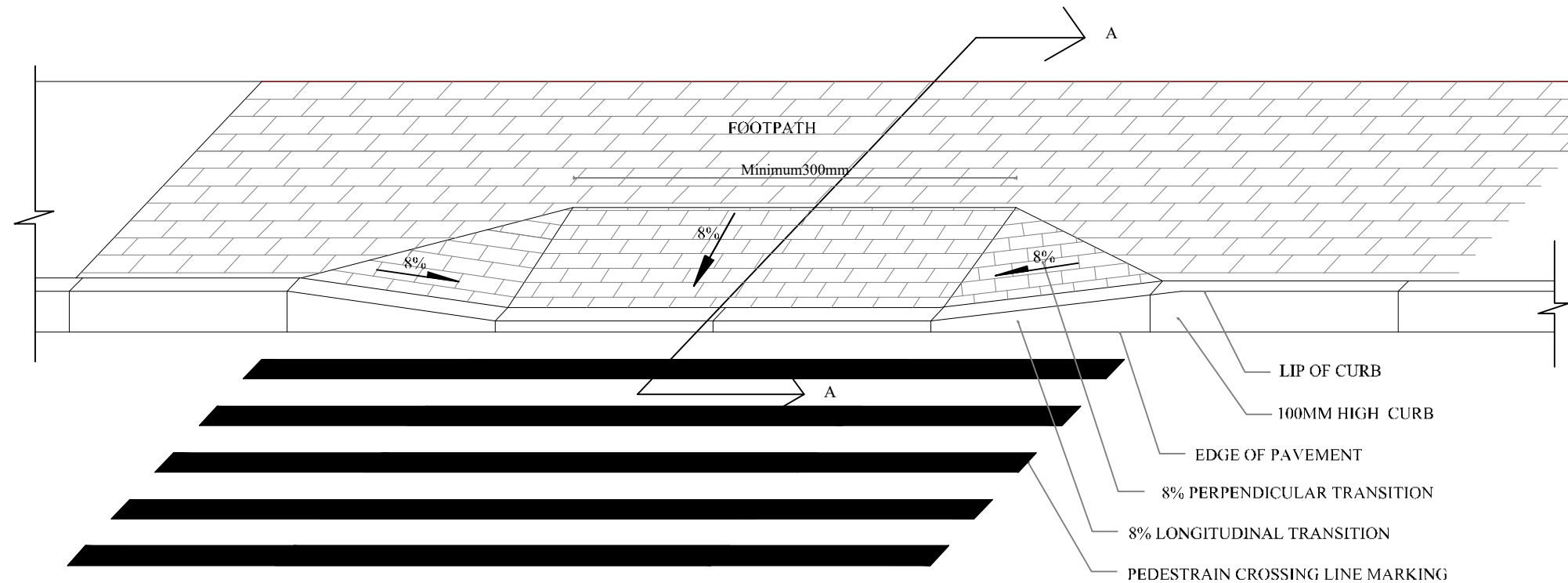
Date January, 2024

Scale **N.T.S**

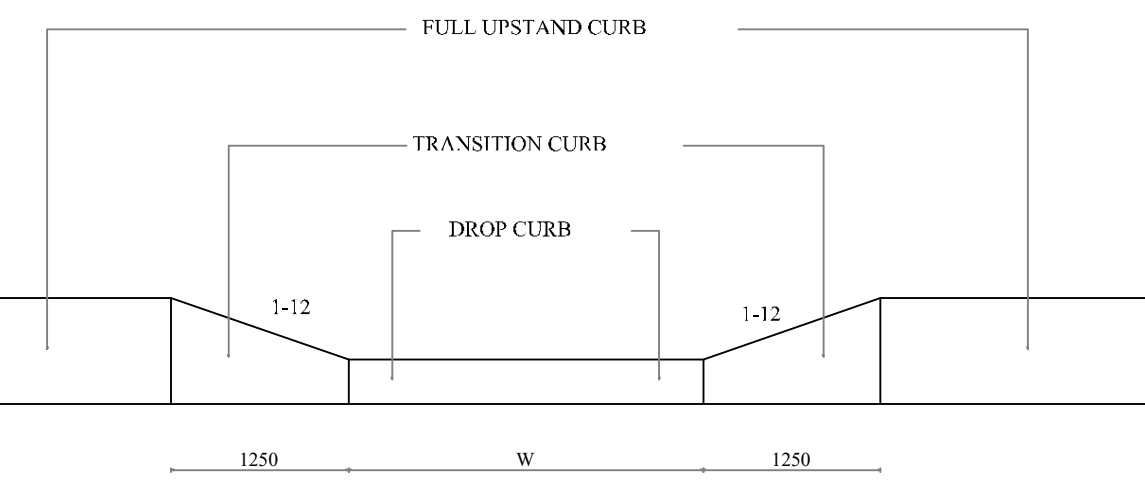
Sheet No.
D-04



- GENERAL NOTES:
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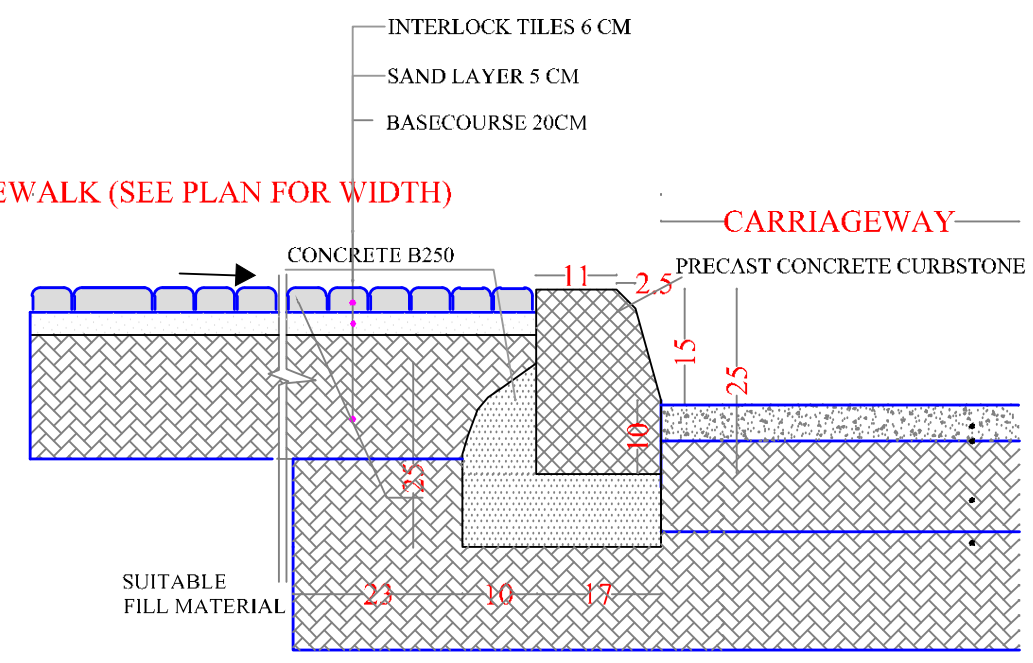
DROP CURB PLAN



W - MIN 300 AT PEDESTRIAN CROSSING

ELEVATION OF DROP CURB ARRANGEMENT

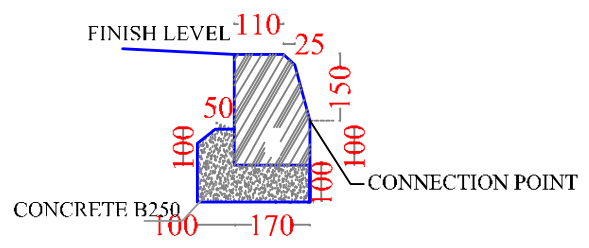
SIDEWALK (SEE PLAN FOR WIDTH)



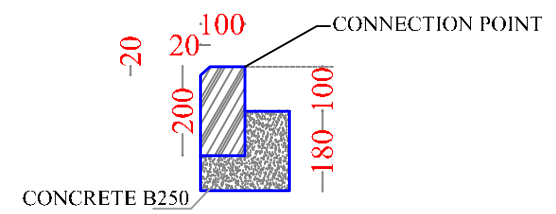
RAISED CURB / SIDEWALK DETAIL

DETAIL "A"

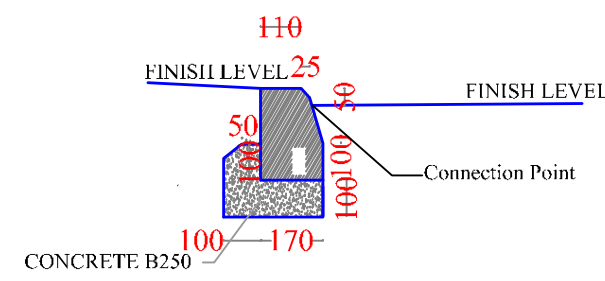
INTERLOCKING SIDEWALK DETAIL



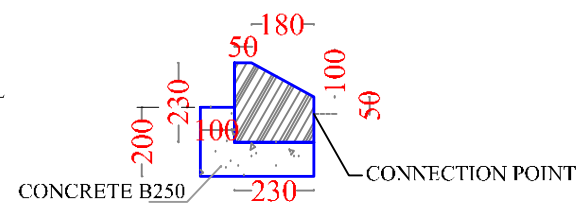
RAISED CURB
 (TO BE USED IN SIDEWALK)



EDGE BEAM



DROP CURB
 (TO BE USED IN SIDEWALK-RAMP)



MOUNTABLE CURB
 (TO BE USED IN MEDIAN)

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 Haska Road

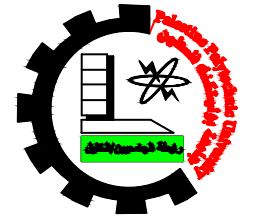
SUPERVISOR
 Eng . Musab Shahin

TEAM work
 Anwar Shweiki
 Osaid Imar

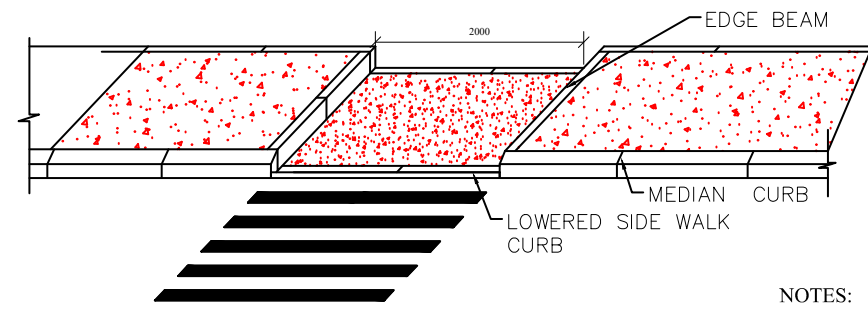
Drawing Title
 SIDE WALK DETAILS

Date January, 2024

Scale N.T.S Sheet No. D-05

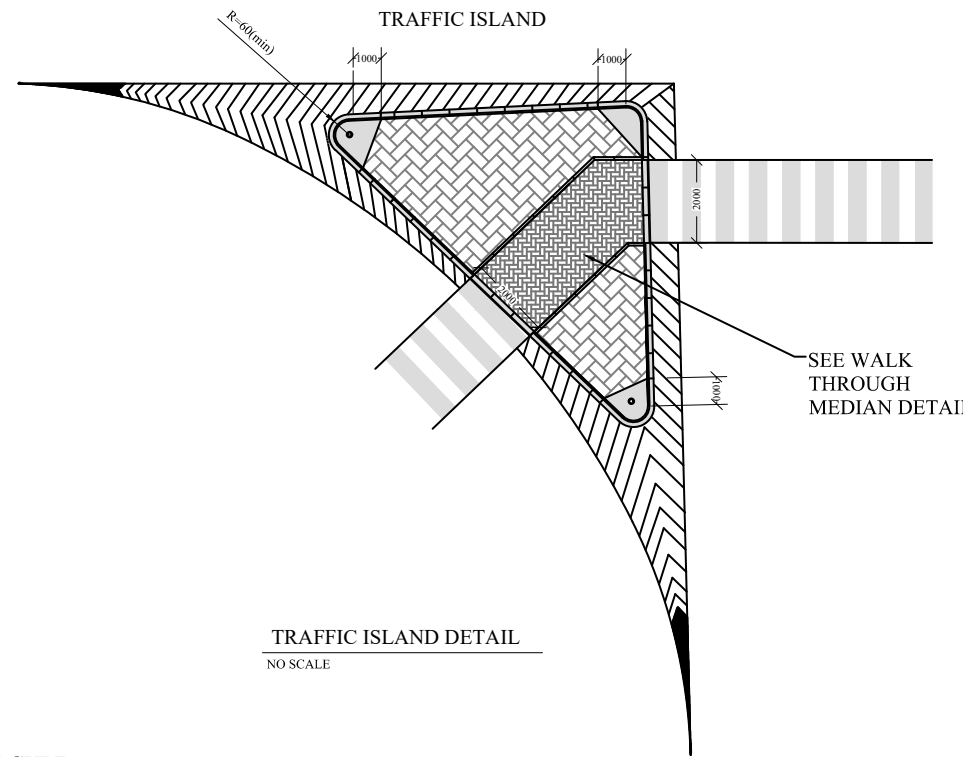


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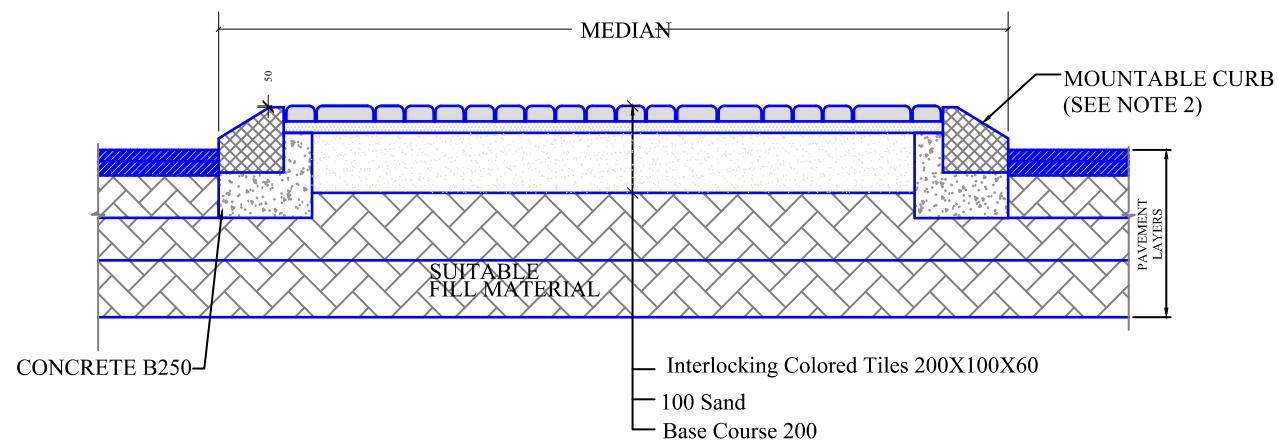


WALK THROUGH MEDIAN DETAIL
 NO SCALE

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.
 2. SEE SHEET C-DT41 FOR CURB DETAILS.

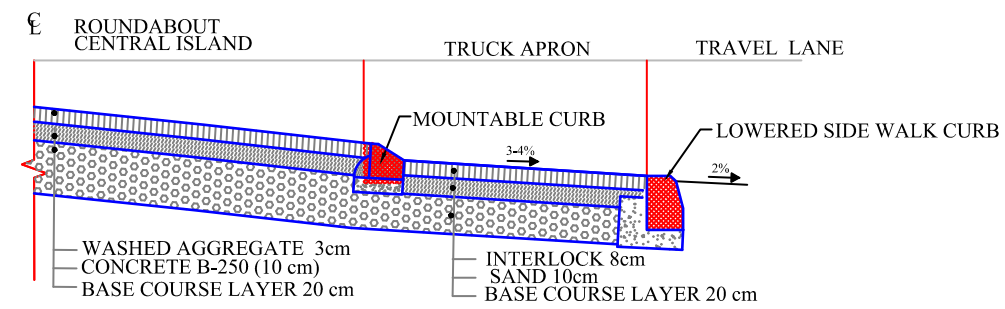


TRAFFIC ISLAND DETAIL
 NO SCALE

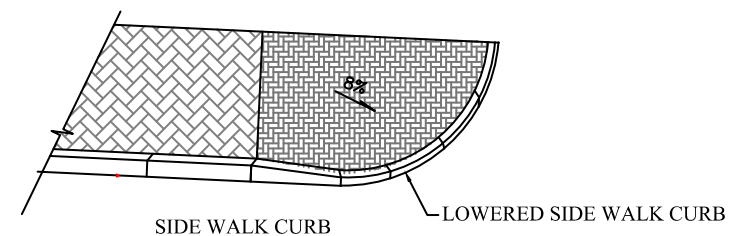


MOUNTABLE CURB / MEDIAN
 DETAIL WITH PAVERS

MEDIAN DETAILS
 NTS



ROUND ABOUT DETAIL
 NO SCALE



RAMP DETAILS AT BEGINNING OF SIDEWALK
 NO SCALE

Design and Rehalitation
 Haska Road

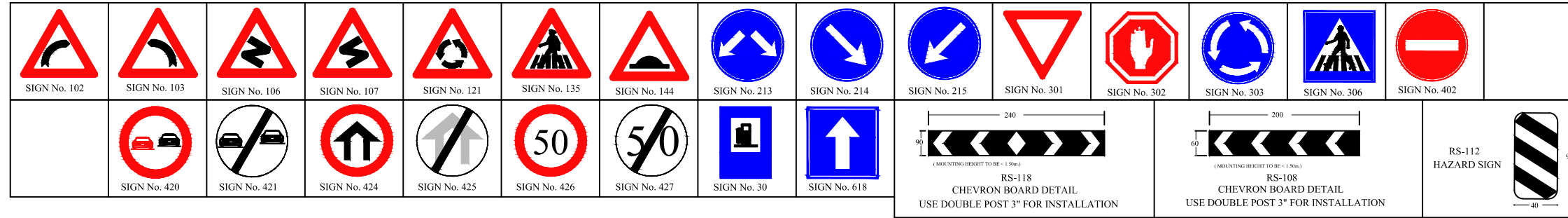
SUPERVISOR
 Eng . Musab Shahin

TEAM work
 Anwar Shweiki
 Osaid Imar

Drawing Title
 MEDIAN DETAILS

Date January, 2024

Scale N.T.S Sheet No. D-06



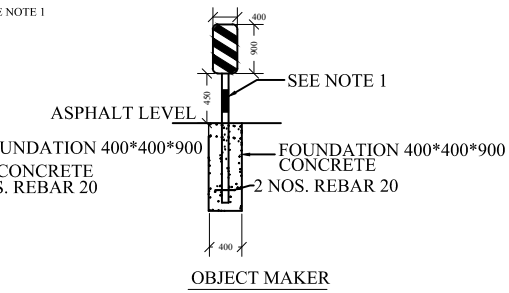
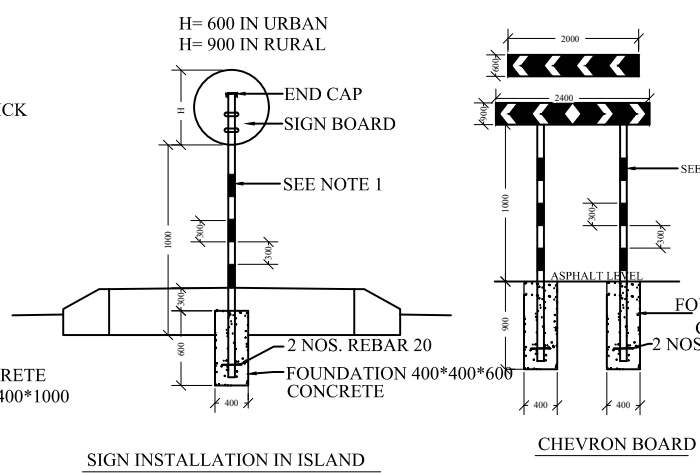
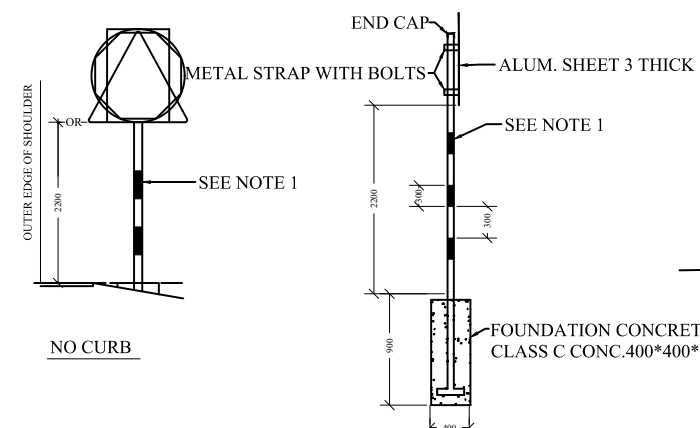
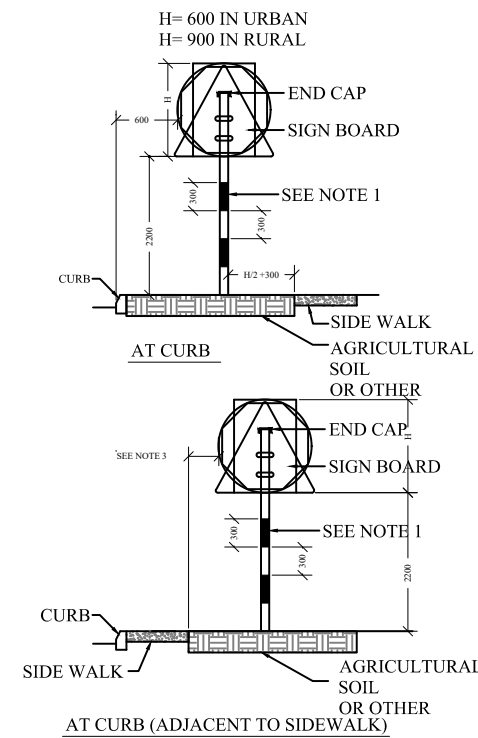
STANDARD ROAD SIGNS

GENERAL NOTES:

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NOTES:

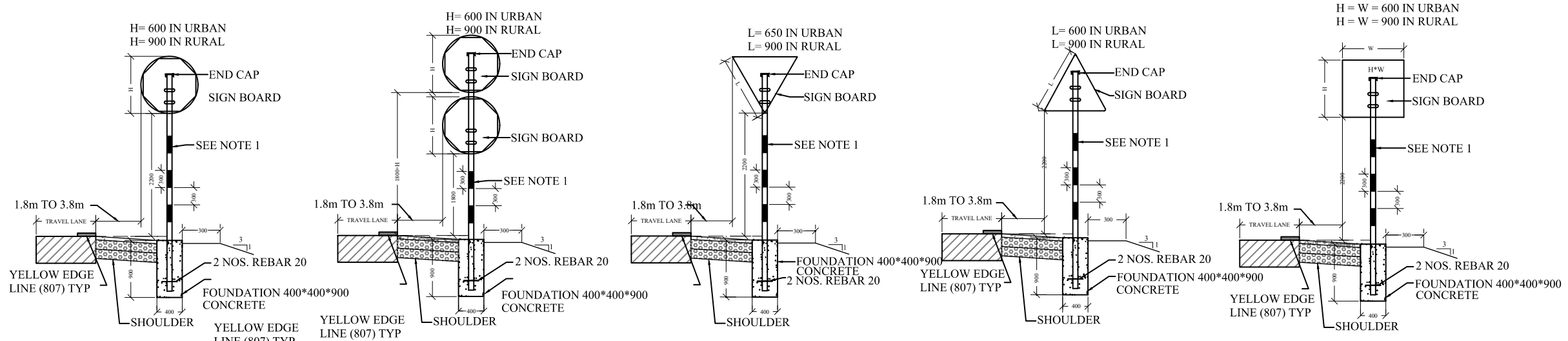
1. Ø75 INTERNAL DIAM. STEEL TUBE (GALVANIZED) 3mm WALL (MIN) THICK PAINTED WITH ALTERNATE BLACK & WHITE 300mm STRIPES
2. ALL GALVINIZATION SHALL MEET ASTM A123M.
3. WHERE SIDEWALK IS CONSTRUCTED ADJACENT TO CURB, NEAR EDGE OF SIGN BOARD SHALL BE INSTALLED 30cm FROM BACK EDGE OF SIDEWALK.
4. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED.



TYPICAL MOUNTING HEIGHT AND LATERAL OFFSET

SIGN #	URBAN ROADS	RURAL ROADS
306,308-310,504, 618,623-625	600*600	800*800
501,502	1100*850	1650*1250
507-509	600*350	700*450
619-622	600*600	900*900
626,628,633-634	500*500	600*600
630-632	400*600	600*900

* REFER TO LATEST STANDARD FOR OTHER DIMENSIONS



**Design and Rehalitation
 Haska Road**

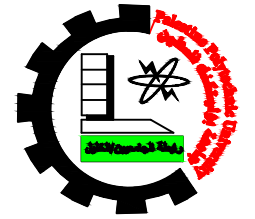
**SUPERVISOR
 Eng . Musab Shahin**

TEAM work
 Anwar Shweiki
 Osaid Imar

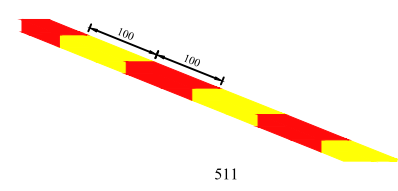
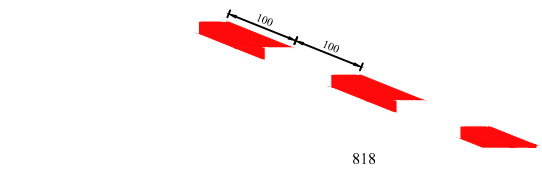
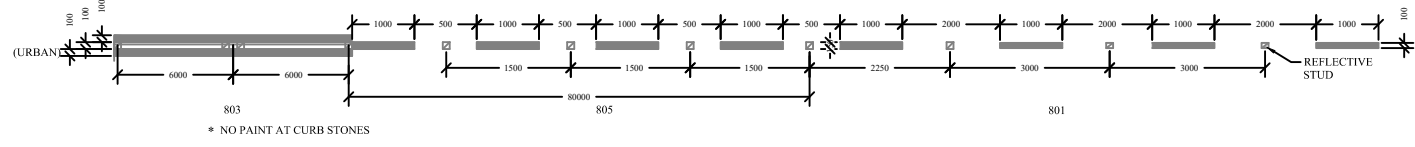
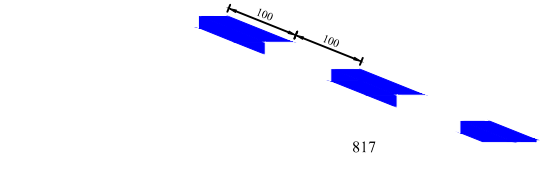
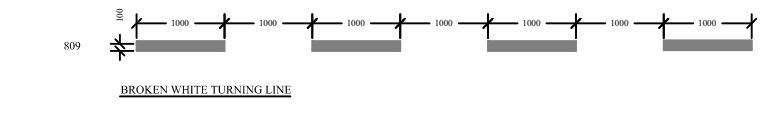
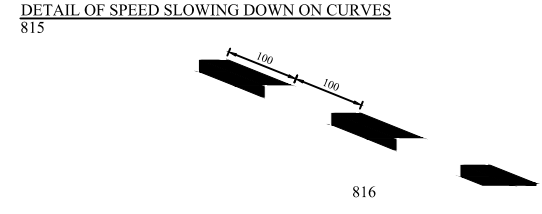
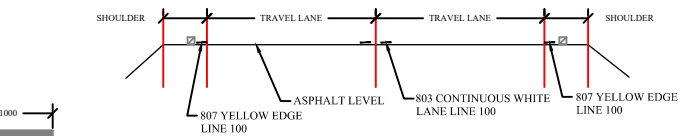
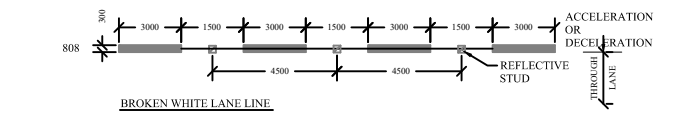
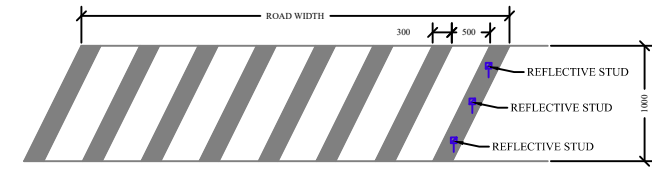
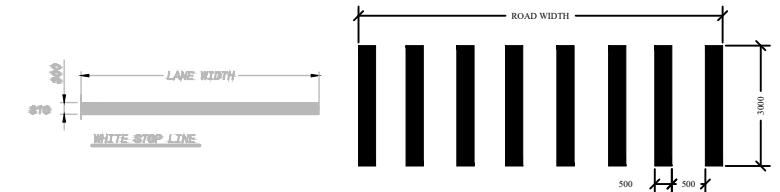
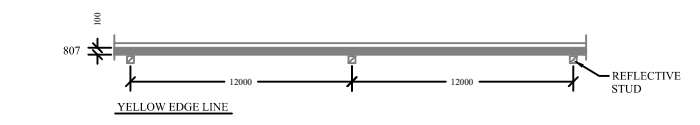
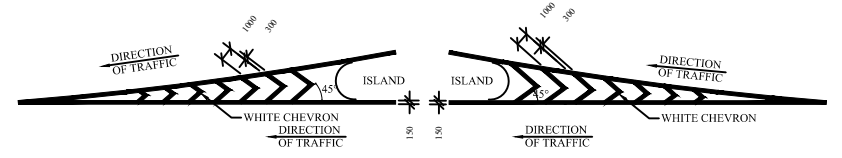
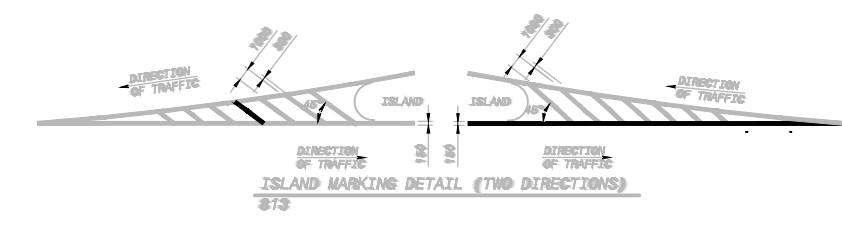
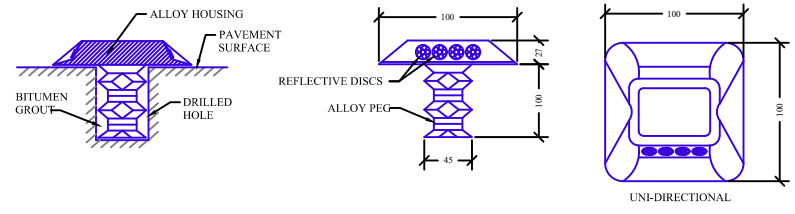
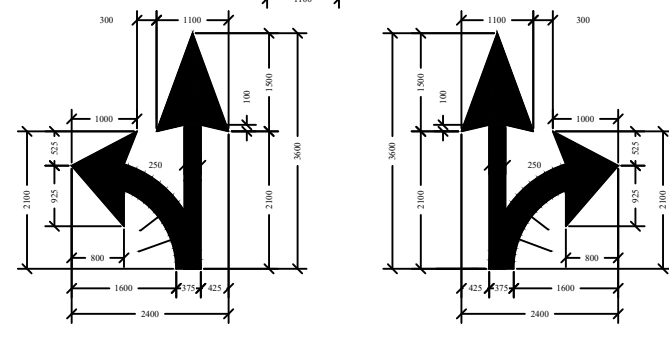
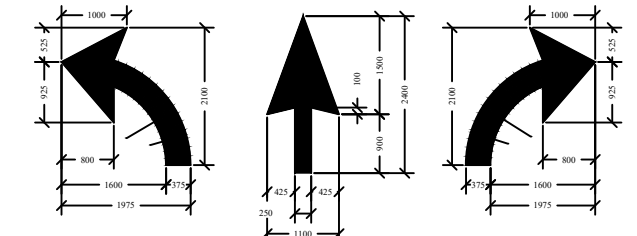
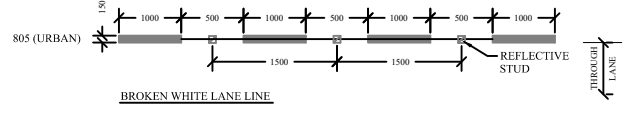
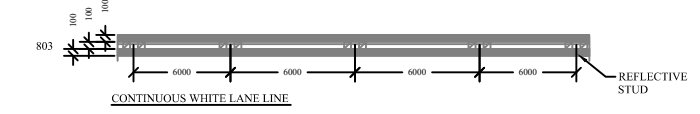
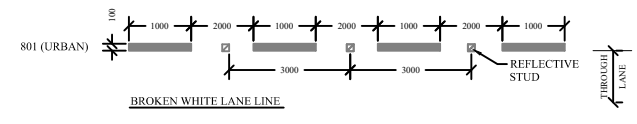
Drawing Title
TRAFFIC SIGN DETAILS

Date **January, 2024**

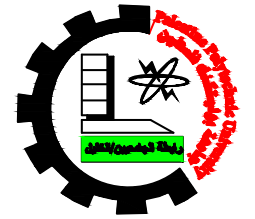
Scale **N.T.S** Sheet No. **D-07**



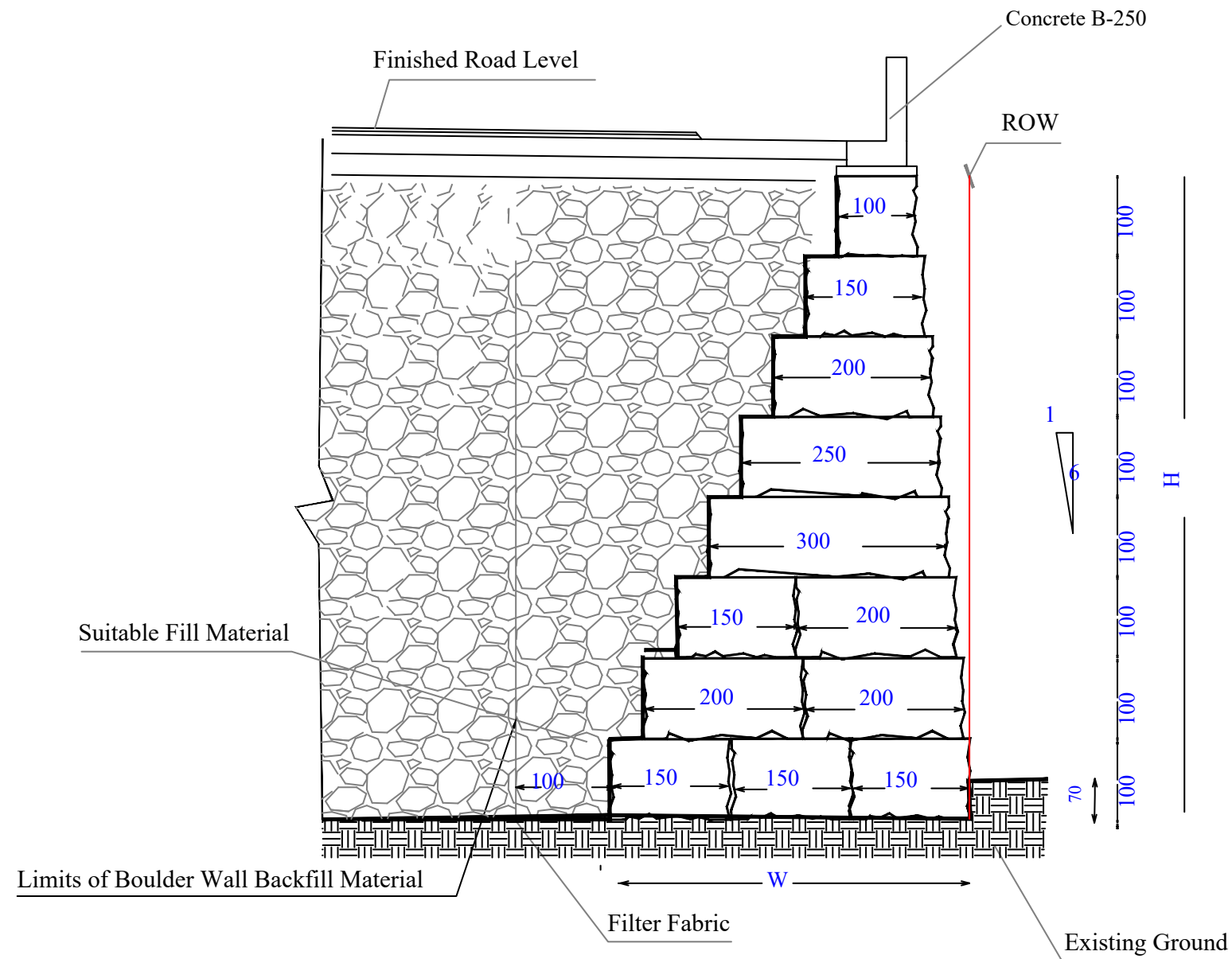
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 4. ALL EXISTING STONE WALL AND CONCRETE WALL LOCATED IN CARRIAGE WAY TO BE REMOVED AND CONSTRUCT NEW ONE.
 5. ALL EXISTING TREE LOCATED IN CARRIAGE WAY TO BE RELOCATED.



Design and Rehalitation Haska Road	
SUPERVISOR Eng . Musab Shahin	
TEAM work Anwar Shweiki Osaid Imar	
Drawing Title ROAD MARKING DETAILS	
Date January, 2024	
Scale N.T.S	Sheet No. D-08



GENERAL NOTES:
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- 1- THE BOULDERS SHALL BE MORE OR THE LESS OF THE SAME SIZE AND COLOR IN ORDER TO PROVIDE A UNIFORM APPEARANCE
- 2- THE BOULDERS WALL CONSTRUCTION WILL INCLUDE EXCAVATIONS, LAYING THE BOULDERS AND BACKFILLING ALL PER THE CONTRACT SPECIFICATIONS AND THE ENGINEER'S INSTRUCTION. NOTE: THE COST OF BACKFILL BEHIND THE BOULDERS WALL (UP TO 1M OFFSET FROM THE FIRST BOTTOM BOULDERS' ROW) SHALL BE INCLUDED IN THE ITEM UNIT PRICE.
- 3- THE CONTRACTOR SHALL COORDINATE WITH THE MUNICIPALITY THE EXACT LOCATION OF THE EDGE OF R.W.O PRIOR TO START THE CONSTRUCTION OF THE WALL.
- 4- THE BOULDERS WALL CONSTRUCTION SHALL BE MEASURED BY SQUARE METER ^m THE UNIT PRICE SHALL INCLUDE BUT NOT LIMITED TO EXCAVATION, BOULDERS DELIVERY, INSTALLATION AND BACKFILLING
- 5- BACKFILLING BEHIND THE STONES (MARABEE) SHALL BE DONE PER THE CONTRACT SPECIFICATION.
- 6- WIDTH OF BOTTOM BOULDER (W) SHALL BE HALF OF HEIGHT OF BOULDER (H).

**Design and Rehalitation
 Haska Road**

**SUPERVISOR
 Eng . Musab Shahin**

TEAM work

Anwar Shweiki

Osaid Imar

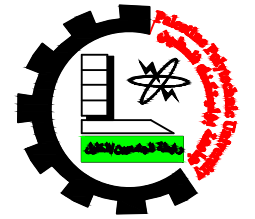
Drawing Title

BOULDER WALL DETAILS

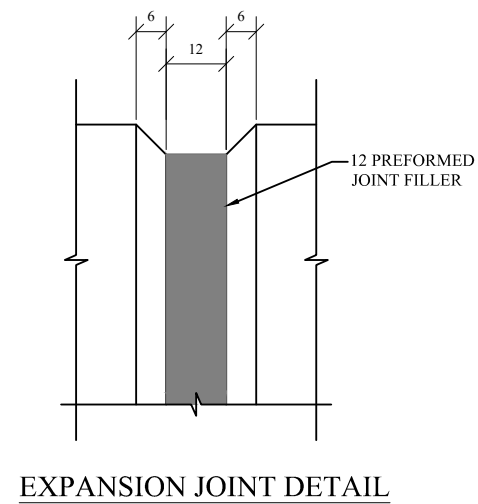
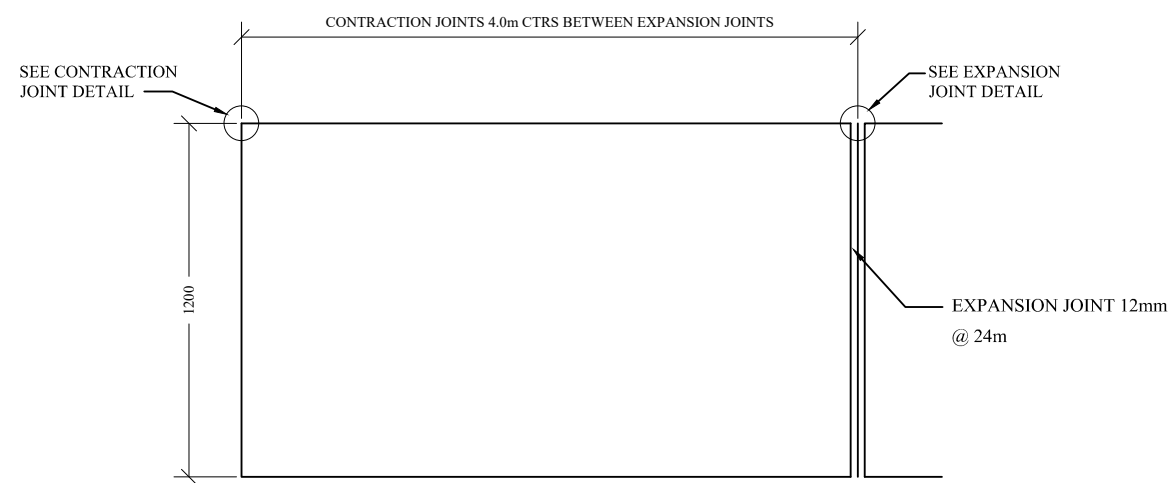
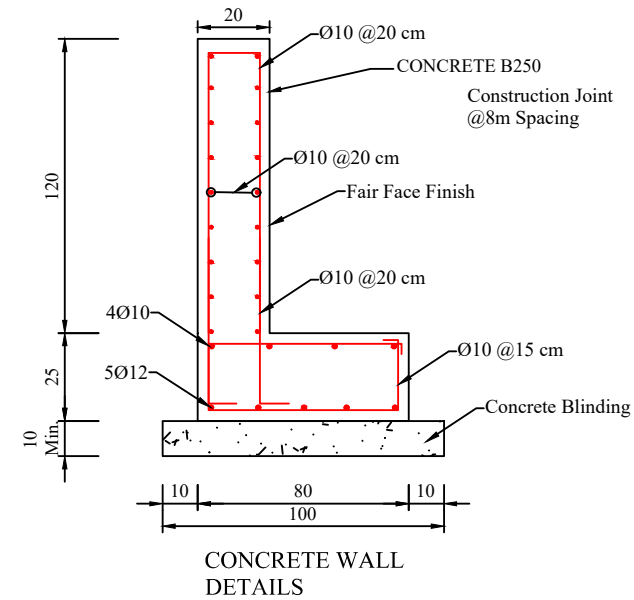
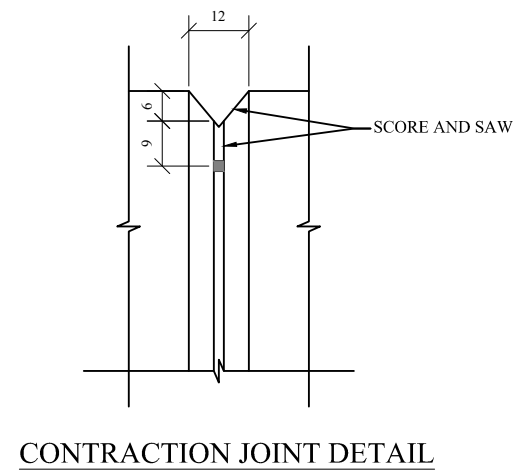
Date January, 2024

Scale **N.T.S**

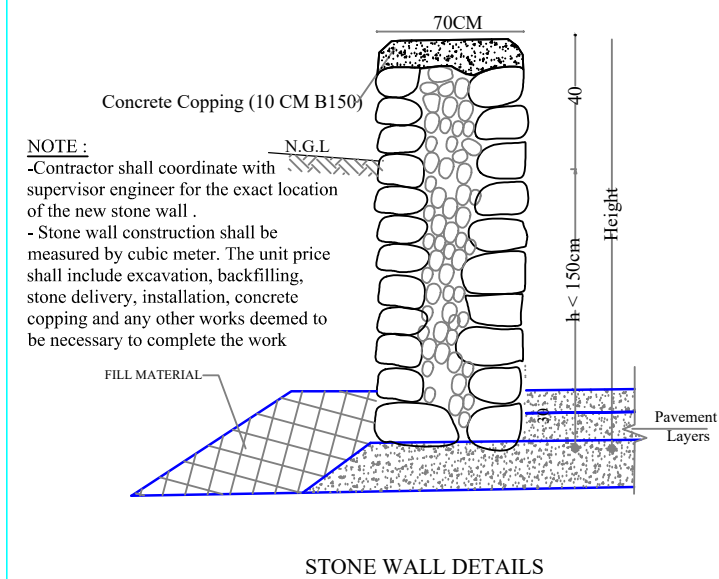
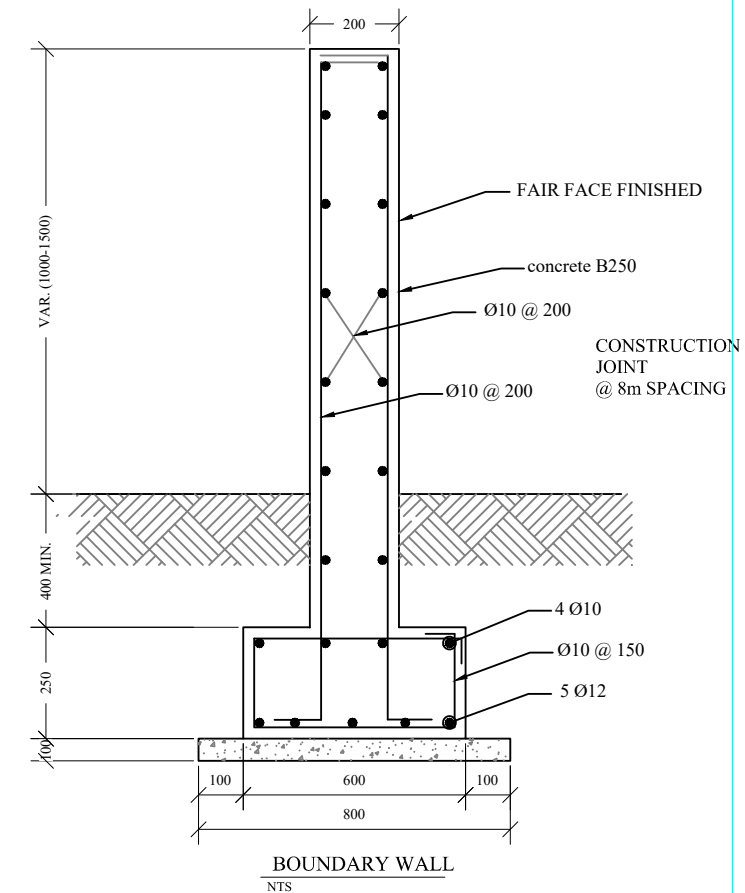
Sheet No.
D-09



- GENERAL NOTES:
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CONCRETE WALL ABOVE BOULDER DETAILS



**Design and Rehalitation
 Haska Road**

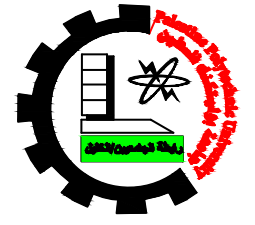
**SUPERVISOR
 Eng . Musab Shahin**

TEAM work
 Anwar Shweiki
 Osaid Imar

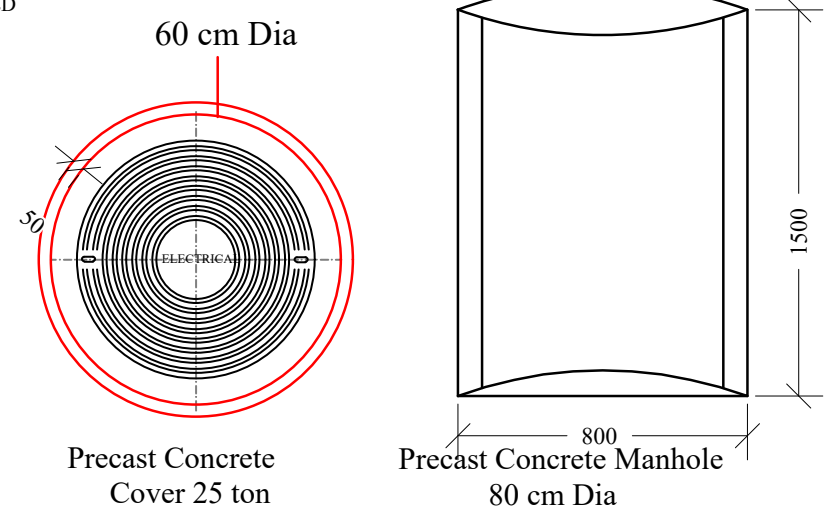
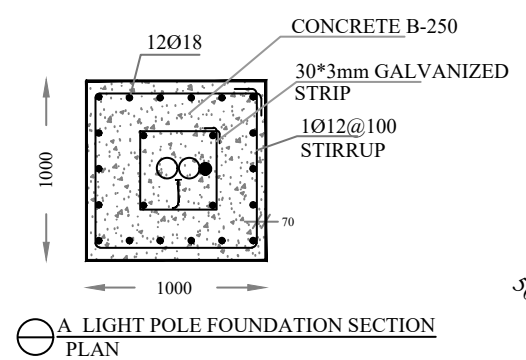
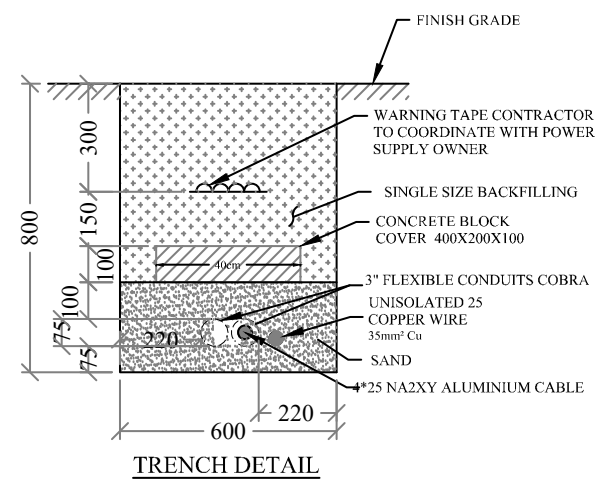
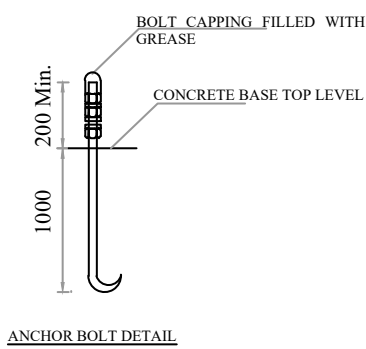
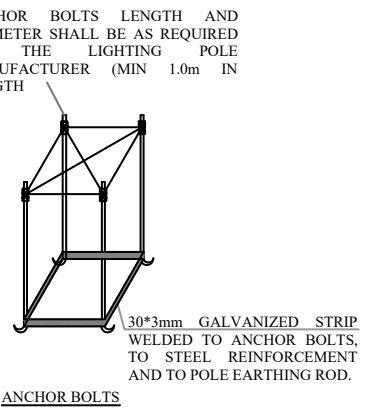
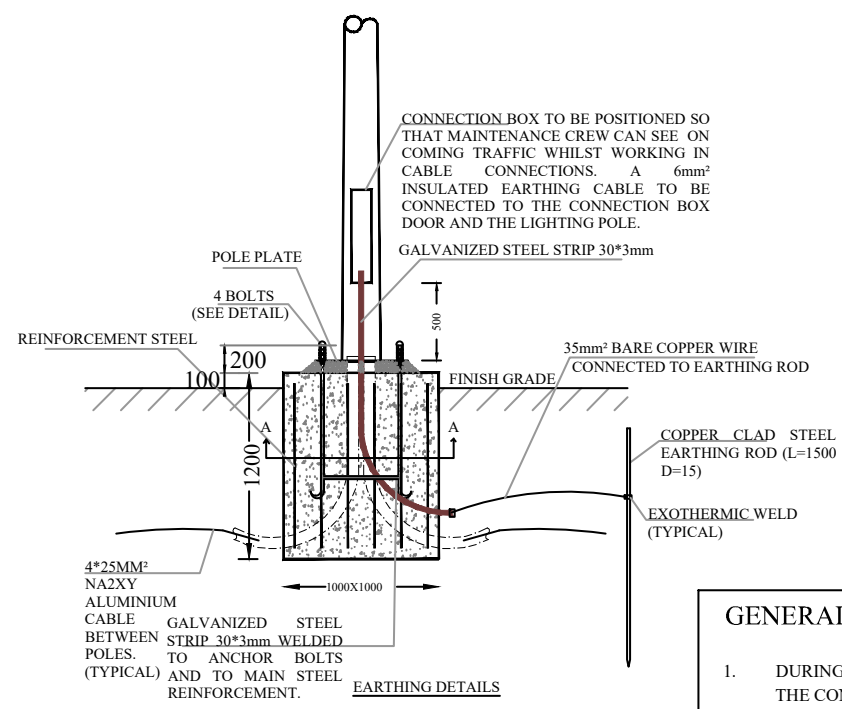
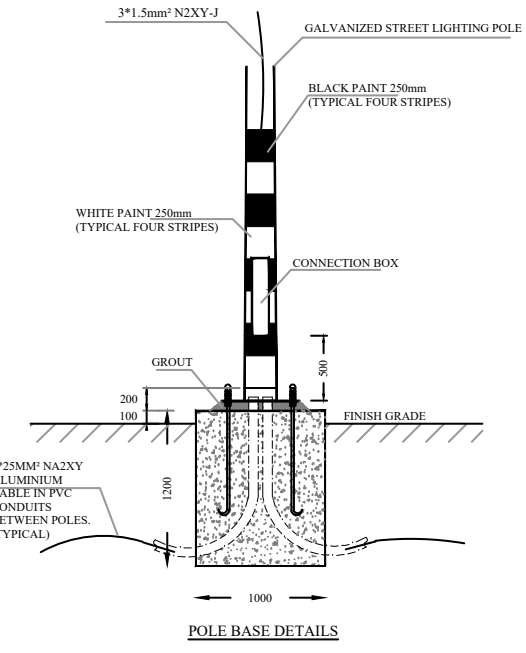
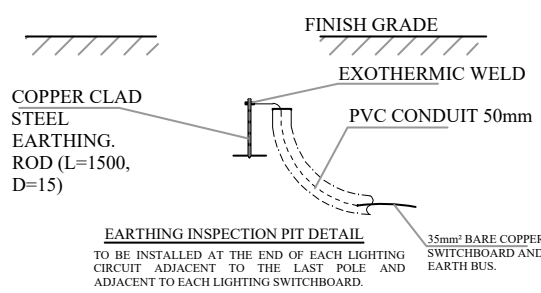
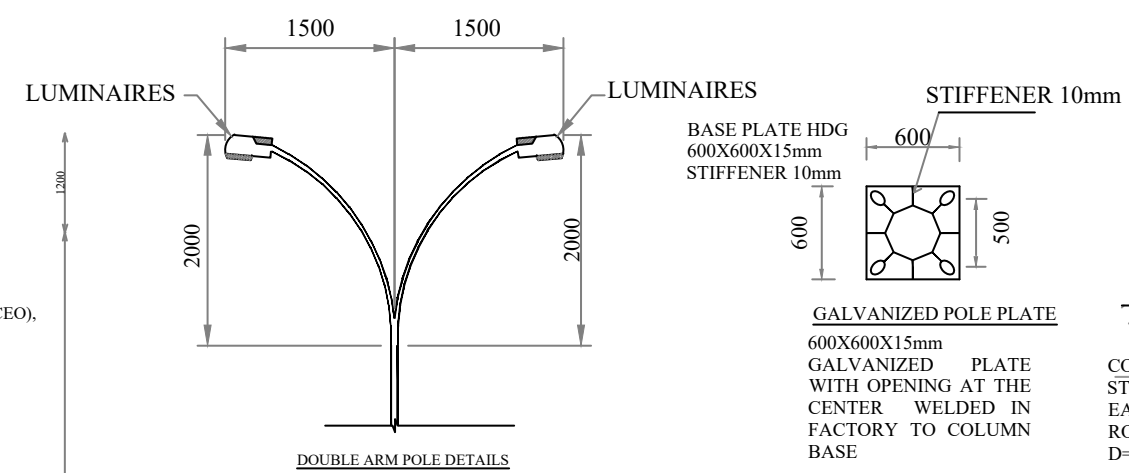
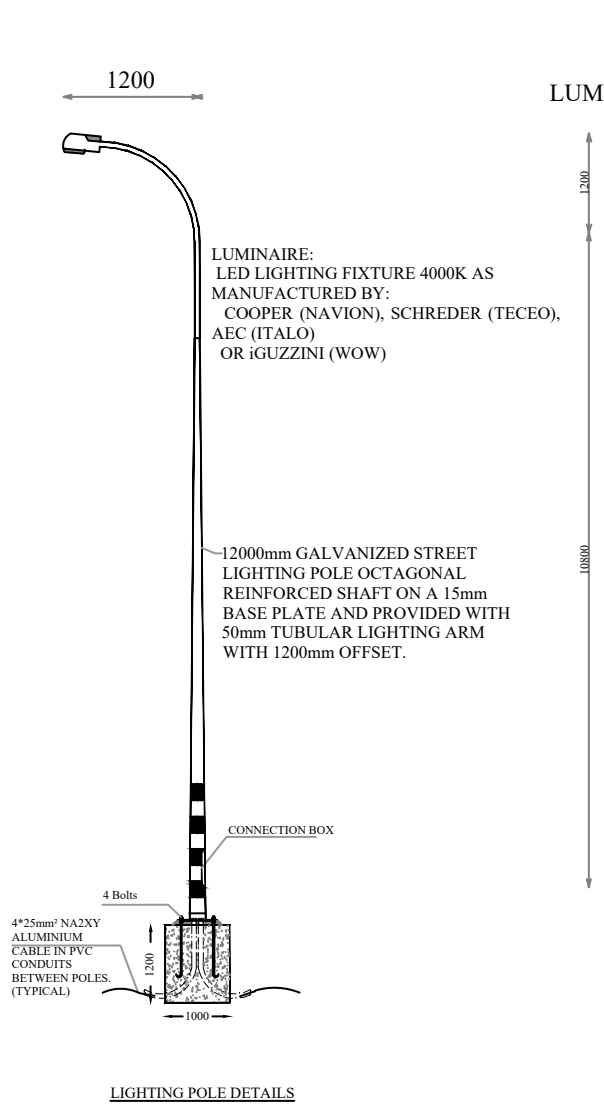
Drawing Title
**CONCRETE & STONE WALL
 DETAILS**

Date January, 2024

Scale **N.T.S** Sheet No. **D-10**



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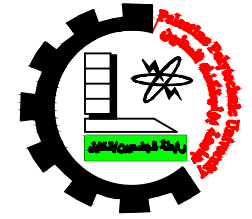
GENERAL SHEET NOTES

- DURING PIPING INSTALLATION ALONG PAVED ROADS, THE CONTRACTOR SHALL UTILIZE METHODS TO PREVENT DAMAGING THE EXISTING ASPHALT SURFACE. IF THE SURFACE IS DAMAGED, THE CONTRACTOR SHALL MILL IT AND APPLY ASPHALT COURSE AT HIS OWN EXPENSE TO RESTORE TO PRE-EXISTING CONDITION.
- IN CASE OF ROAD CROSSING, THE DAMAGED WIDTH SHALL BE PAVED.
- FOR PIPES ALONG AND ACROSS ASPHALTED ROAD, SECOND COURSE FOR FULL WIDTH ONLY IF APPROVED BY THE ENGINEER. TERMINATION SHALL BE SLOPED TO EXISTING SURFACE.
- FOR PAVED ROAD CROSSING IN MAIN ROADS AND ISRAELI ROADS, WIDTH OF BASE COURSE ROAD SURFACE AS DETERMINED BY ENGINEER. FOR ISRAELI ROADS, CONTRACTOR TO OBTAIN APPROVAL FROM APPROPRIATE ISRAELI AUTHORITY.
- COMPACT EACH LIFT OF SINGLE SIZE AGGREGATE TO 97% (ASTM D1557).
- THE ADJACENT PAVEMENT SHALL BE MILLED A MINIMUM DEPTH OF 37 AND REPLACED WITH AN ASPHALT SURFACE COURSE TO MATCH TRENCH SURFACE PAVING.

NOTES:

- THE CONTRACTOR SHALL INSTALL A COPPER CLAD STEEL ROD (L=1.5M, D=15mm) NEXT TO EACH POLE FOUNDATION. THE ROD SHALL BE CONNECTED TO THE GALVANIZED STRIP USING EXOTHERMIC WELD.
- THE CONTRACTOR SHALL PROVIDE GALVANIZED STRIP 30X3mm WELDED TO THE POLES BOLTS AT THE BASE. THE STRIP SHALL BE CONNECTED TO THE GROUNDING STRIP.

Design and Rehalitation Haska Road	
SUPERVISOR Eng . Musab Shahin	
TEAM work Anwar Shweiki Osaid Imar	
Drawing Title ELECTRICAL POLE DETAILS	
Date January, 2024	
Scale N.T.S	Sheet No. D-11



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Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+000.00	0.05	7.87	0.00	0.00	0.00	0.00
0+010.00	30.50	0.00	152.77	39.35	152.77	39.35
0+020.00	44.54	0.00	375.24	0.00	528.00	39.35
0+030.00	61.58	0.00	530.61	0.00	1058.61	39.35
0+040.00	62.41	0.00	622.66	0.00	1681.27	39.35
0+050.00	60.25	0.00	617.90	0.00	2299.16	39.35
0+060.00	65.04	0.00	626.46	0.00	2925.62	39.35
0+070.00	50.63	0.00	578.37	0.00	3503.99	39.35
0+080.00	39.53	0.00	450.81	0.00	3954.80	39.35
0+090.00	39.25	0.00	393.90	0.00	4348.71	39.35
0+100.00	31.88	0.00	355.66	0.00	4704.37	39.35
0+110.00	28.40	0.00	301.43	0.00	5005.80	39.35
0+120.00	26.41	0.00	274.08	0.00	5279.88	39.35
0+130.00	23.91	0.00	251.61	0.00	5531.49	39.35
0+140.00	22.37	0.00	231.38	0.00	5762.88	39.35
0+150.00	22.62	0.00	224.92	0.00	5987.80	39.35
0+160.00	21.21	0.00	219.14	0.00	6206.94	39.35
0+170.00	18.95	0.00	200.81	0.00	6407.75	39.35
0+180.00	17.53	0.00	182.39	0.00	6590.14	39.35
0+190.00	15.50	0.00	165.12	0.00	6755.26	39.35

**Design and Rehalitation
Haska Road**

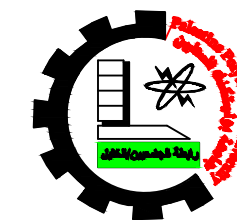
**SUPERVIOSOR
Eng . Musab Shahin**

TEAM work
 Anwar Shweiki
 Osaid Imar

Drawing Title
 CUT & FILL TABLE

Date January, 2024

Scale **N.T.S** Sheet No. **D-11**



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Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+200.00	11.63	0.00	135.64	0.00	6890.90	39.35
0+210.00	9.79	0.00	107.09	0.00	6997.99	39.35
0+220.00	9.77	0.00	97.79	0.00	7095.78	39.35
0+230.00	9.91	0.00	98.41	0.01	7194.19	39.36
0+240.00	6.80	0.02	83.56	0.13	7277.74	39.49
0+250.00	4.95	0.32	58.78	1.72	7336.53	41.22
0+260.00	4.10	1.67	45.28	9.94	7381.80	51.16
0+270.00	4.96	0.00	45.29	8.34	7427.10	59.50
0+280.00	0.80	1.58	28.77	7.88	7455.86	67.38
0+290.00	1.09	4.76	9.42	31.68	7465.28	99.06
0+300.00	0.00	6.57	5.13	57.79	7470.41	156.85
0+310.00	1.21	4.30	5.42	56.12	7475.83	212.96
0+320.00	0.71	9.63	8.57	73.37	7484.40	286.34
0+330.00	0.00	11.71	3.16	111.10	7487.56	397.43
0+340.00	0.00	14.71	0.00	132.81	7487.56	530.25
0+350.00	0.84	10.84	4.58	124.48	7492.14	654.72
0+360.00	1.24	9.57	10.91	99.54	7503.05	754.27
0+370.00	0.72	9.97	10.20	95.36	7513.24	849.63
0+380.00	7.48	9.96	42.55	96.92	7555.79	946.55
0+390.00	8.42	12.86	82.50	110.67	7638.29	1057.21

**Design and Rehalitation
Haska Road**

**SUPERVIOSOR
Eng . Musab Shahin**

TEAM work

Anwar Shweiki
Osaid Imar

Drawing Title

CUT & FILL TABLE

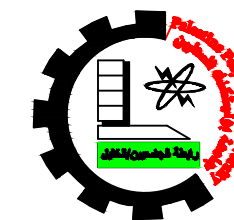
Date January, 2024

Scale

N.T.S

Sheet No.

D-11



GENERAL NOTES:

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Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+400.00	9.13	18.34	91.13	151.11	7729.41	1208.32
0+410.00	6.56	23.15	72.98	219.13	7802.39	1427.45
0+420.00	2.59	25.11	41.13	260.47	7843.53	1687.93
0+430.00	0.31	28.26	12.92	286.15	7856.45	1974.07
0+440.00	0.00	34.85	1.41	328.66	7857.87	2302.73
0+450.00	0.62	36.22	3.08	355.36	7860.95	2658.09
0+460.00	5.27	31.01	30.67	328.50	7891.62	2986.59
0+470.00	8.44	27.10	69.82	286.98	7961.44	3273.57
0+480.00	7.31	22.35	80.15	243.83	8041.59	3517.40
0+490.00	14.75	17.43	112.33	195.80	8153.92	3713.20
0+500.00	15.21	25.92	152.72	213.25	8306.64	3926.45
0+510.00	9.19	25.19	124.42	251.33	8431.06	4177.78
0+520.00	7.12	16.98	83.08	207.24	8514.13	4385.02
0+530.00	6.41	13.94	68.88	152.01	8583.01	4537.03
0+540.00	0.72	12.77	36.32	131.54	8619.34	4668.57
0+550.00	0.00	17.28	3.67	148.99	8623.01	4817.56
0+560.00	0.12	13.42	0.62	153.47	8623.63	4971.03
0+570.00	0.00	18.77	0.62	160.94	8624.25	5131.96
0+580.00	0.24	25.08	1.19	219.24	8625.45	5351.21
0+590.00	3.82	26.05	20.29	255.66	8645.74	5606.87

**Design and Rehalitation
Haska Road**

**SUPERVIOSOR
Eng . Musab Shahin**

TEAM work

Anwar Shweiki
Osaid Imar

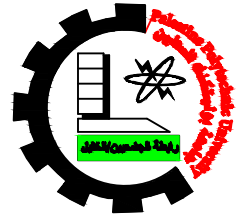
Drawing Title

CUT & FILL TABLE

Date January, 2024

Scale N.T.S

Sheet No.
D-11



GENERAL NOTES:
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Total Volume Table						
Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+600.00	9.81	24.38	68.15	252.16	8713.89	5859.03
0+610.00	9.56	2.99	96.83	136.84	8810.72	5995.87
0+620.00	8.49	4.08	90.24	35.34	8900.96	6031.21
0+630.00	6.01	4.86	71.45	45.95	8972.41	6077.16
0+640.00	3.65	4.50	48.29	46.82	9020.71	6123.98
0+650.00	4.13	8.64	38.11	68.01	9058.81	6191.98
0+660.00	4.09	8.86	43.28	78.82	9102.09	6270.80
0+670.00	7.66	0.50	62.28	42.07	9164.37	6312.87
0+680.00	7.03	2.99	77.08	16.28	9241.44	6329.15
0+690.00	5.34	5.05	61.84	40.18	9303.28	6369.33
0+700.00	8.81	3.88	70.74	44.64	9374.02	6413.97
0+710.00	11.27	4.67	100.40	42.77	9474.42	6456.74
0+720.00	6.90	6.14	90.87	54.05	9565.29	6510.79
0+730.00	2.15	6.58	45.27	63.58	9610.56	6574.36
0+740.00	2.47	13.94	22.16	105.50	9632.73	6679.86
0+750.00	0.38	11.62	11.71	140.82	9644.44	6820.68
0+760.00	0.00	14.19	1.57	135.47	9646.00	6956.15
0+770.00	0.00	15.72	0.00	146.97	9646.00	7103.12
0+780.00	7.19	14.79	43.85	140.87	9689.85	7243.99
0+790.00	3.22	18.04	45.82	171.21	9735.67	7415.19

**Design and Rehalitation
Haska Road**

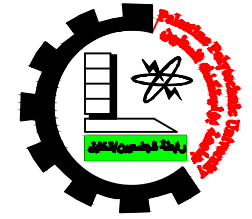
**SUPERVIOSOR
Eng . Musab Shahin**

TEAM work
 Anwar Shweiki
 Osaid Imar

Drawing Title
 CUT & FILL TABLE

Date January, 2024

Scale **N.T.S** Sheet No. **D-11**



Total Volume Table

Station	Fill Area	Cut Area	Fill Volume	Cut Volume	Cumulative Fill Vol	Cumulative Cut Vol
0+800.00	2.79	17.79	26.10	186.62	9761.77	7601.81
0+810.00	0.96	28.45	16.35	241.48	9778.12	7843.29
0+820.00	0.00	22.22	4.19	258.77	9782.31	8102.06
0+830.00	0.00	19.83	0.00	206.14	9782.31	8308.20
0+840.00	0.00	17.79	0.00	185.03	9782.31	8493.23
0+850.00	0.00	10.83	0.00	143.09	9782.31	8636.32
0+860.00	0.00	10.15	0.00	104.88	9782.31	8741.20
0+870.00	0.00	9.05	0.00	95.97	9782.31	8837.17
0+880.00	1.51	8.57	7.54	88.09	9789.85	8925.27
0+890.00	2.99	7.99	22.51	82.81	9812.36	9008.07
0+900.00	3.19	8.16	30.94	80.78	9843.29	9088.85
0+910.00	4.59	6.01	38.91	70.88	9882.20	9159.73
0+920.00	12.12	6.52	83.55	62.64	9965.75	9222.38
0+930.00	4.77	4.65	84.45	55.81	10050.20	9278.19
0+931.09	4.69	4.48	5.17	4.99	10055.37	9283.18

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**Design and Rehalitation
 Haska Road**

**SUPERVIOSOR
 Eng . Musab Shahin**

TEAM work
 Anwar Shweiki
 Osaid Imar

Drawing Title
 CUT & FILL TABLE

Date January, 2024

Scale **N.T.S** Sheet No. **D-11**

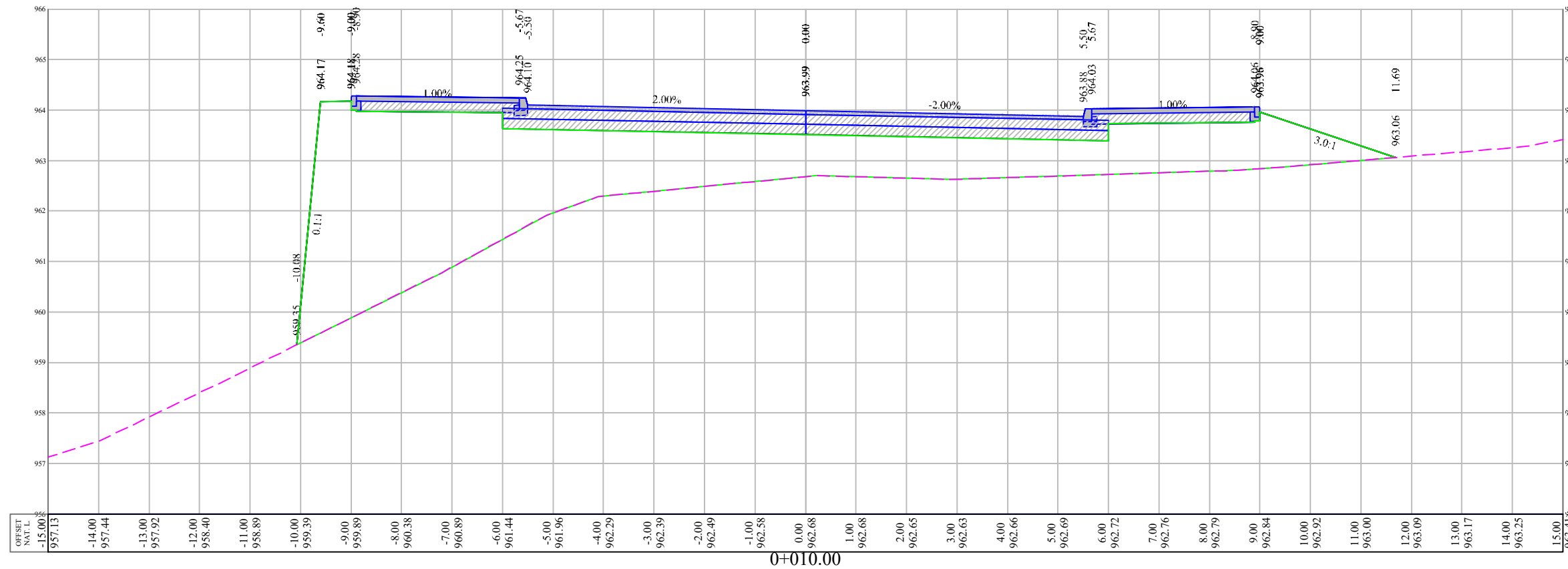


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LEGEND

- NATURAL GROUND LEVEL
- PROPOSED GROUND LEVEL
- SUB-GRADE LEVEL
- ASPHALT
- BASE COURSE
- CONCRETE SIDE WALK



Design and Rehalitation
 Haska Road

SUPERVISOR
 Eng . Musab Shahin

TEAM work

Anwar Shweiki
 Osaid Imar

Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-1

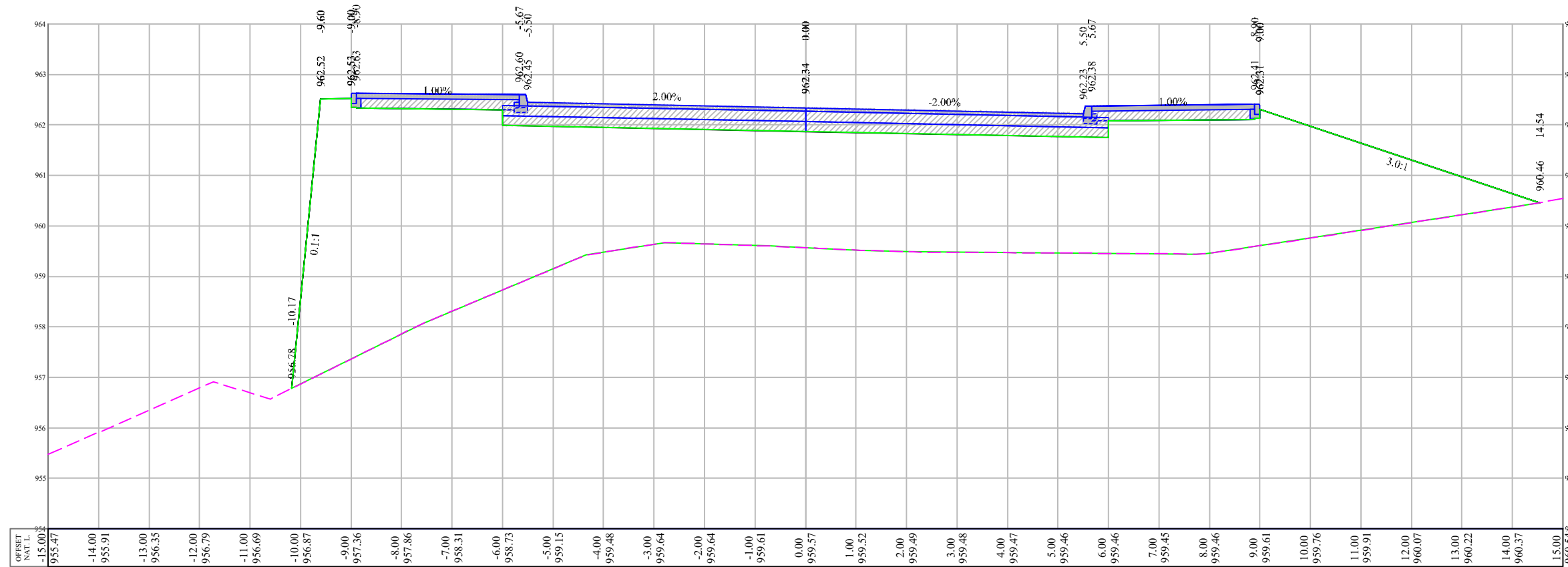


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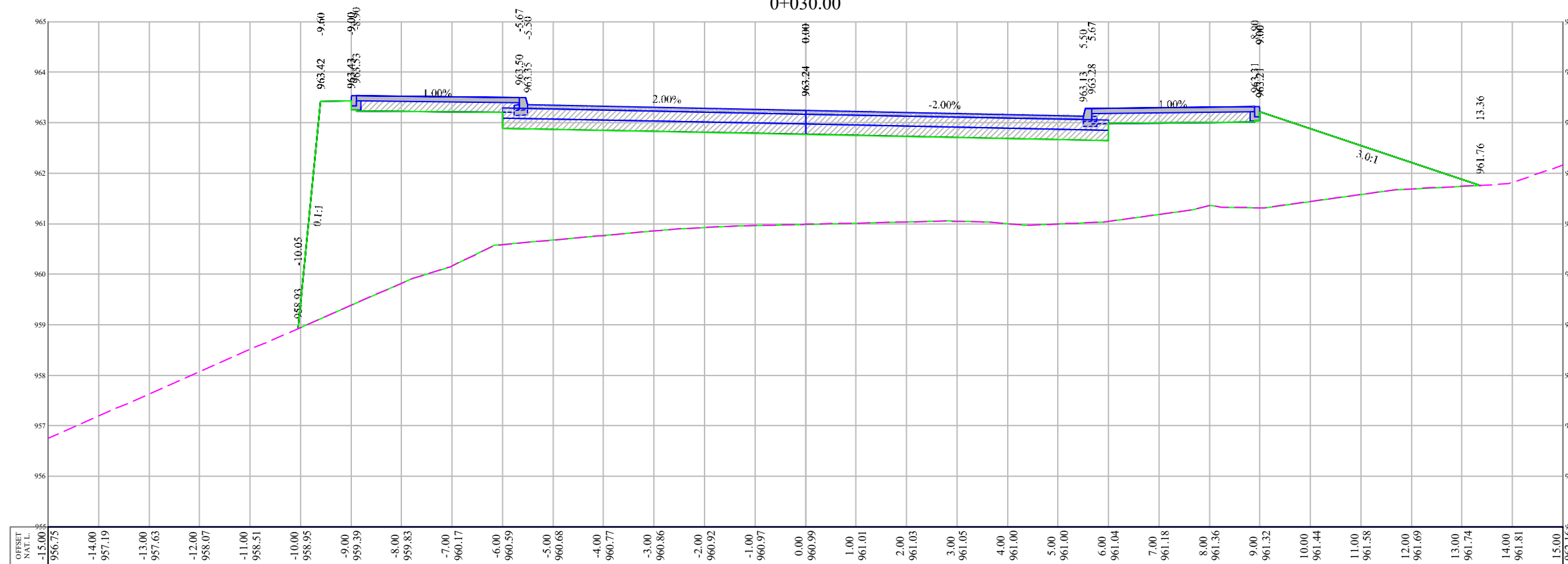
1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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LEGEND

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- PROPOSED GROUND LEVEL
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0+030.00



0+020.00

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 Haska Road**

**SUPERVISOR
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TEAM work

Anwar Shweiki
 Osaid Imar

Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-2

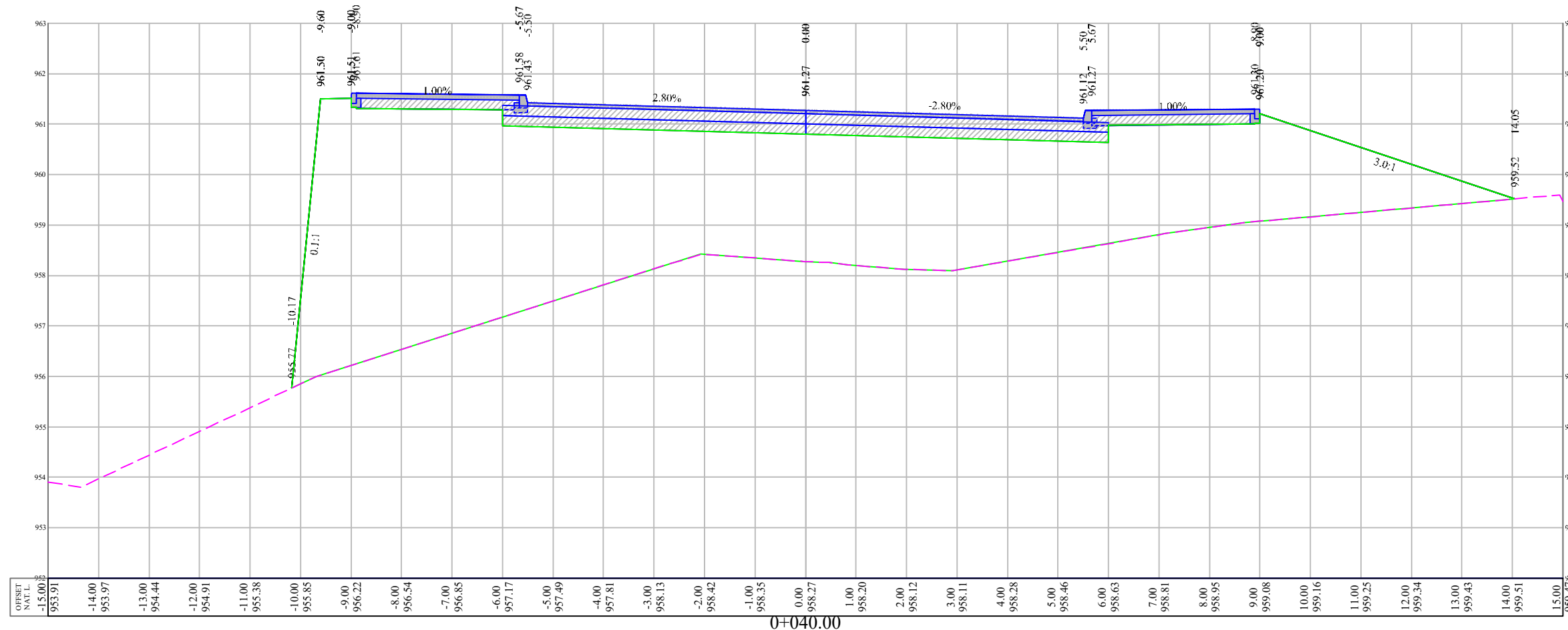
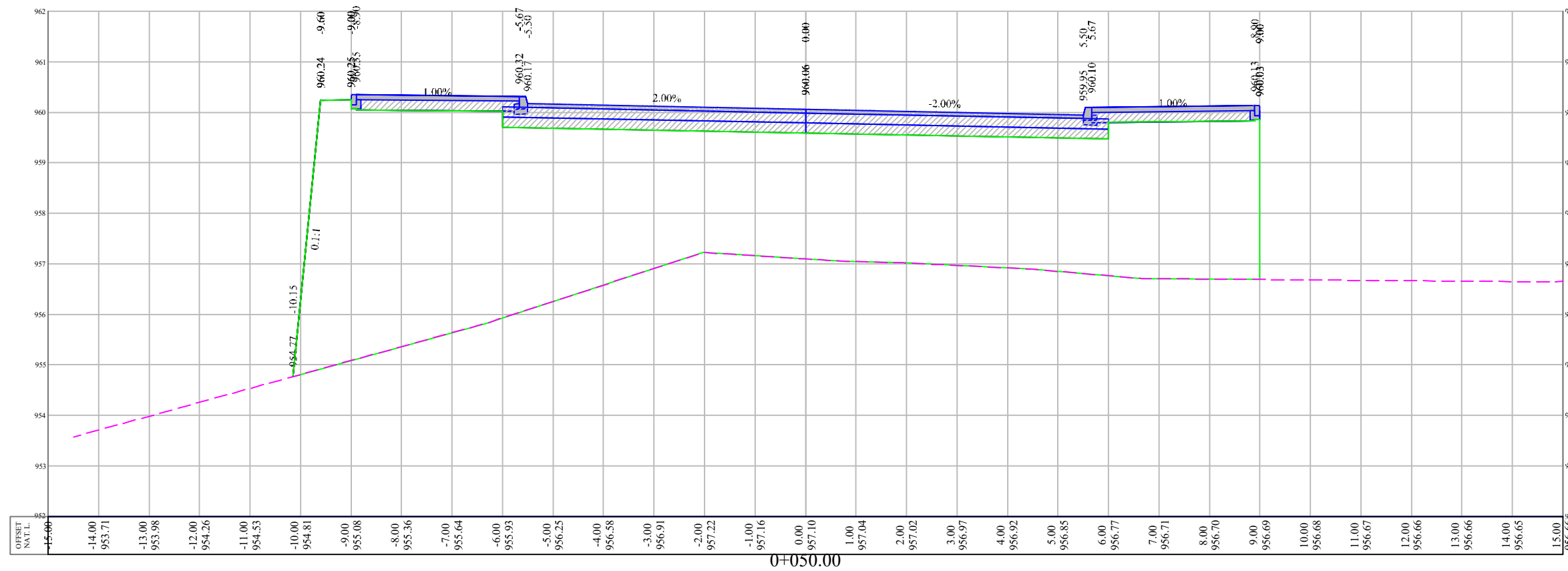


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-3

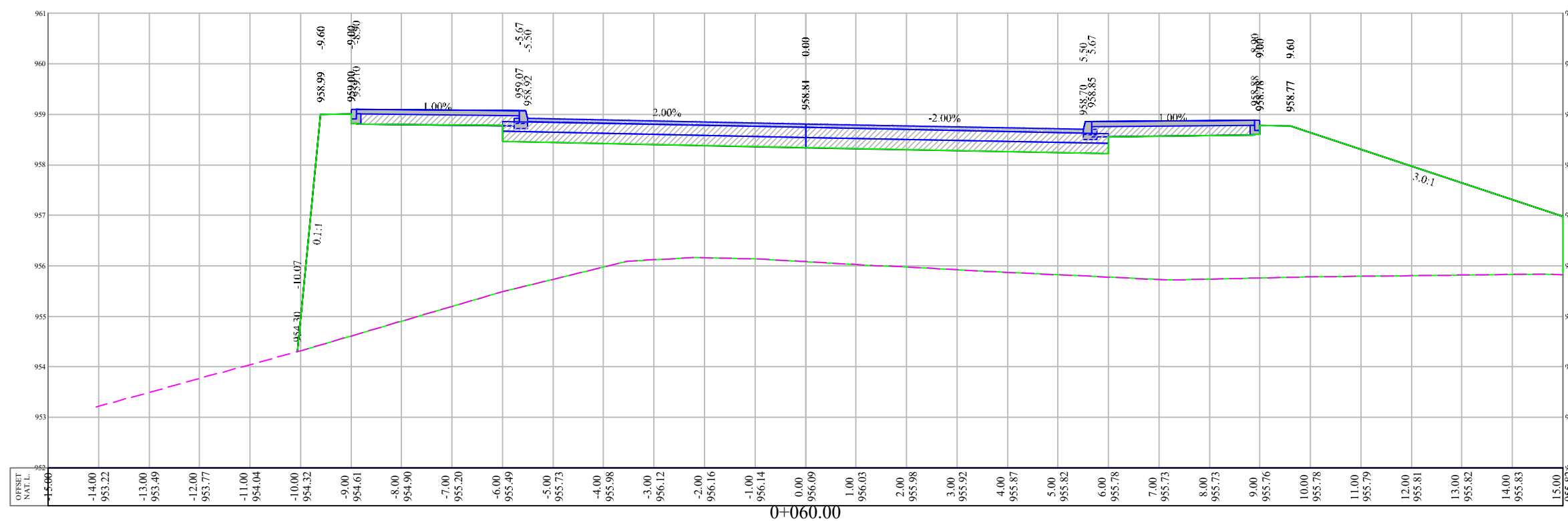
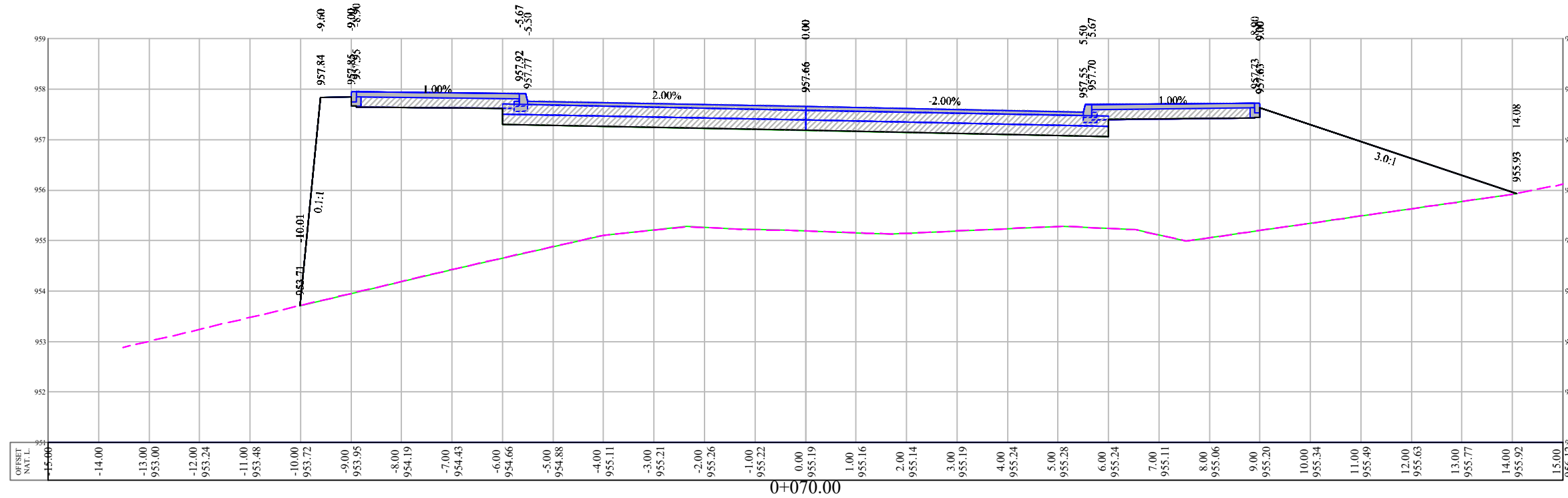


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- PROPOSED GROUND LEVEL
- SUB-GRADE LEVEL
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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-4

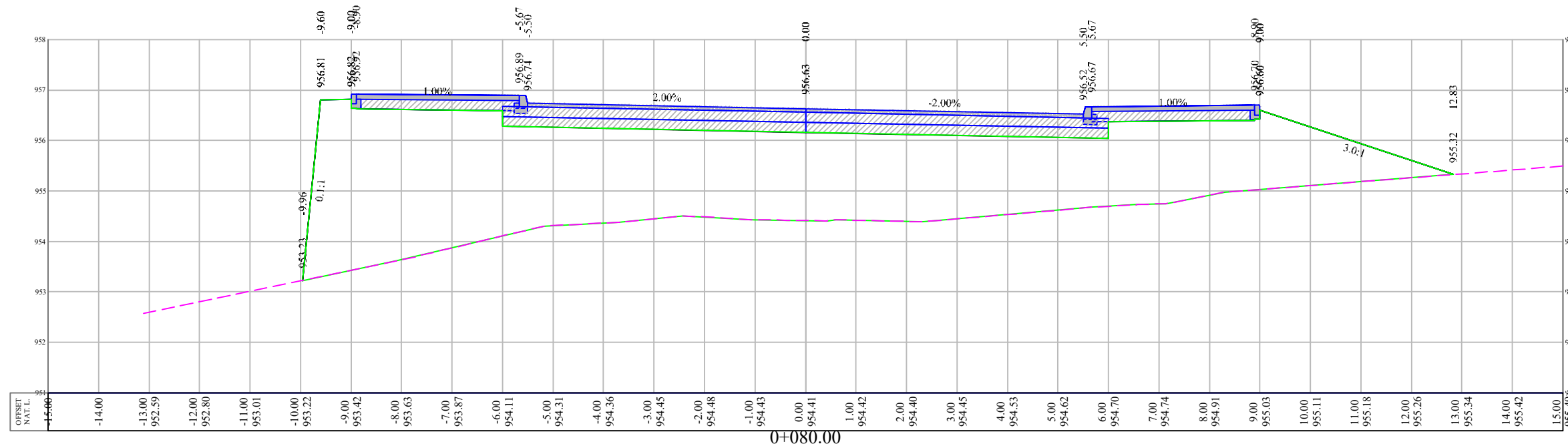
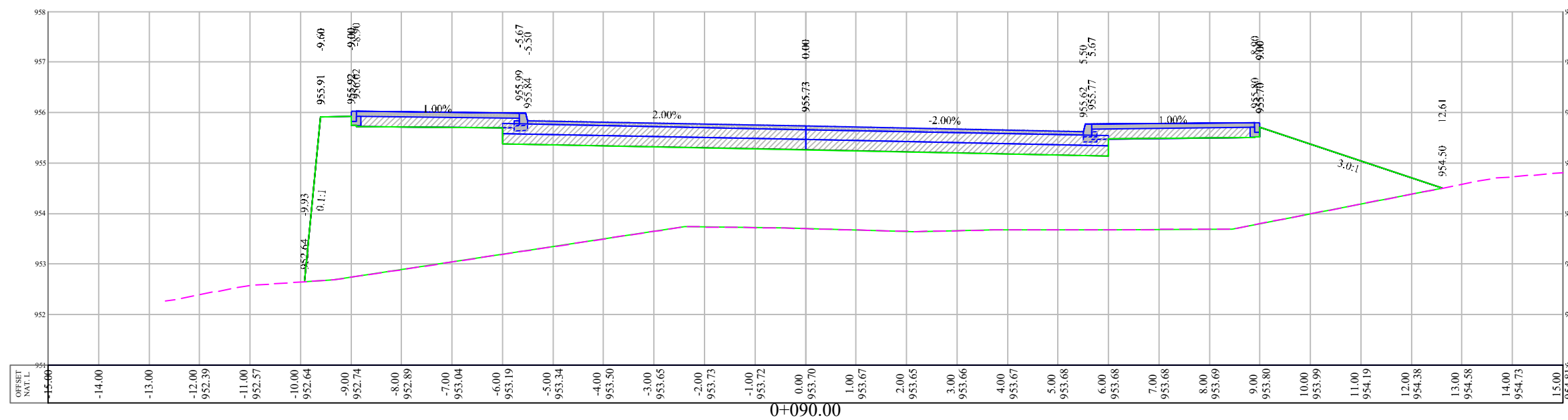
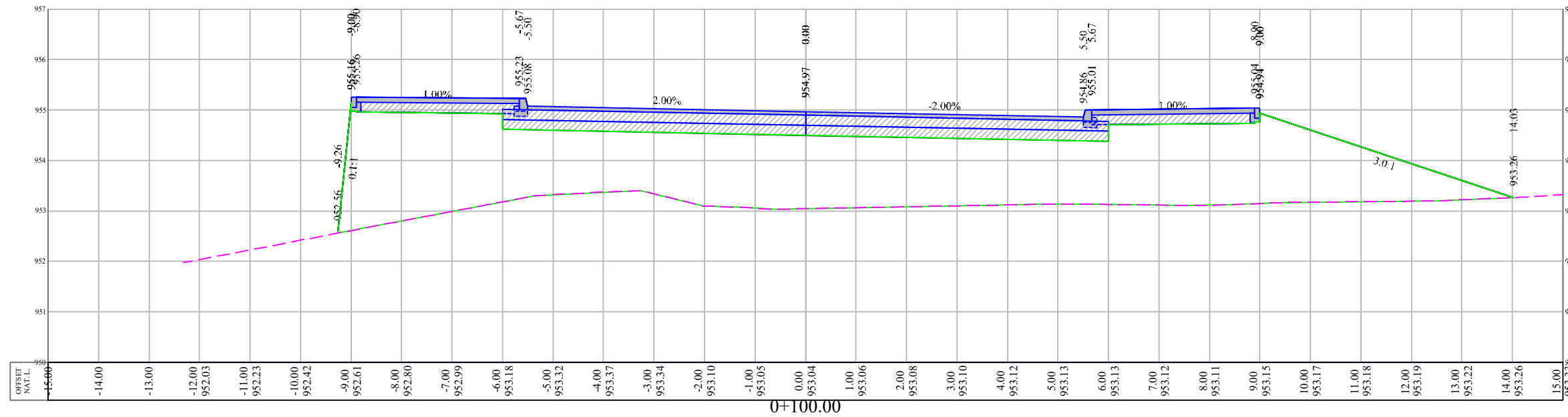


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-5

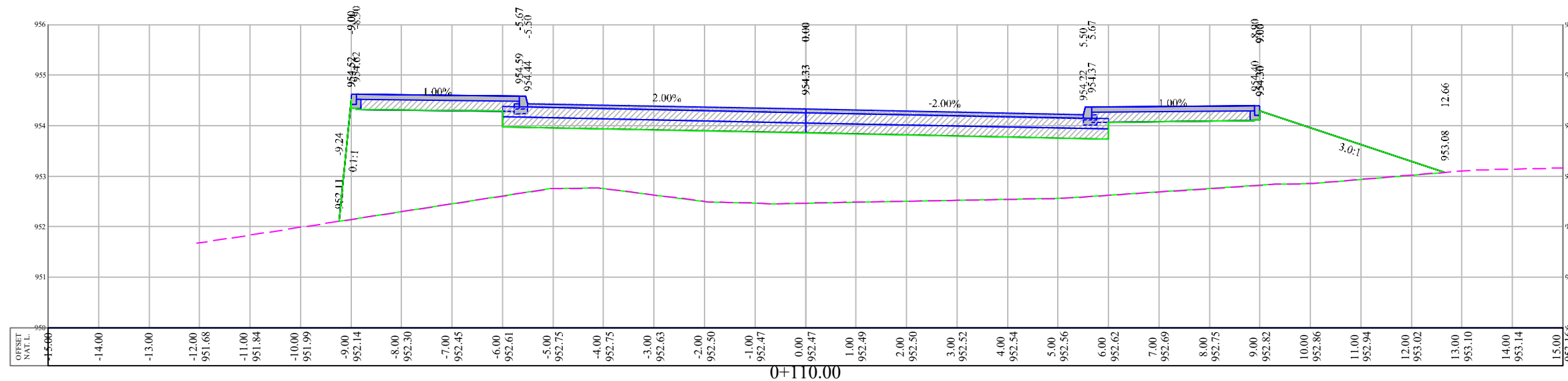
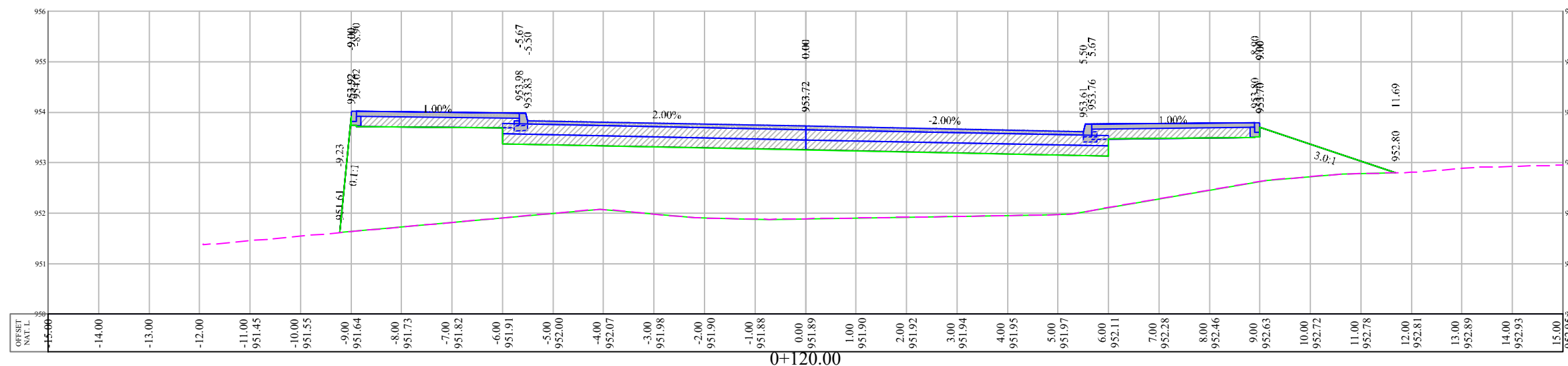
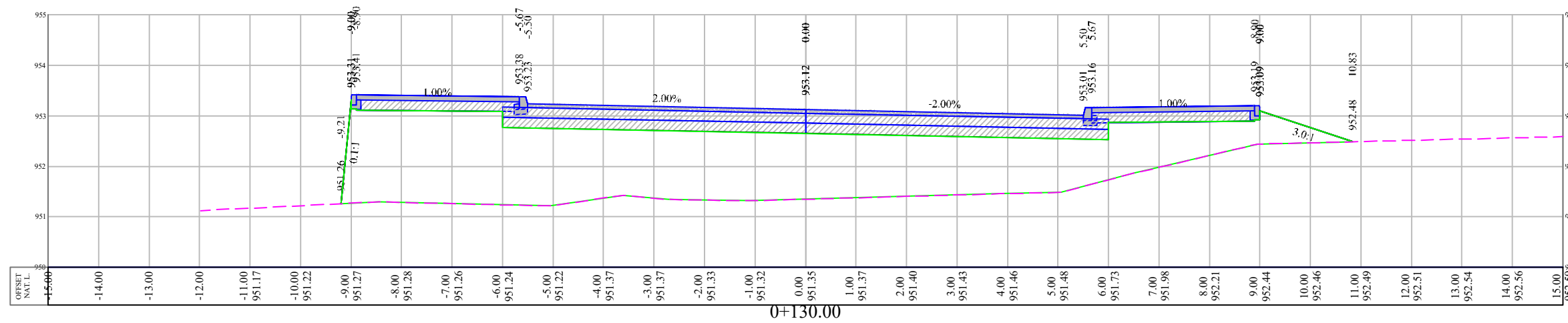


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-6

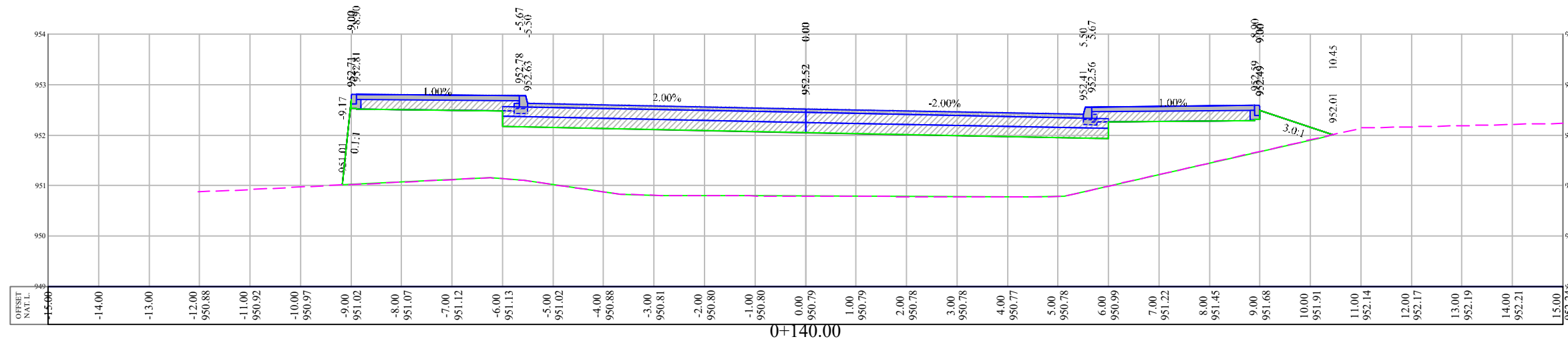
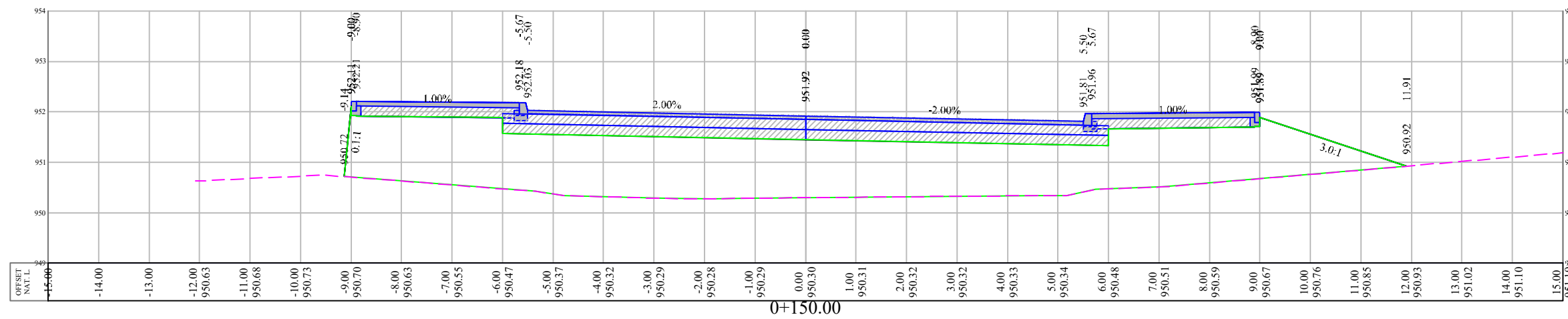
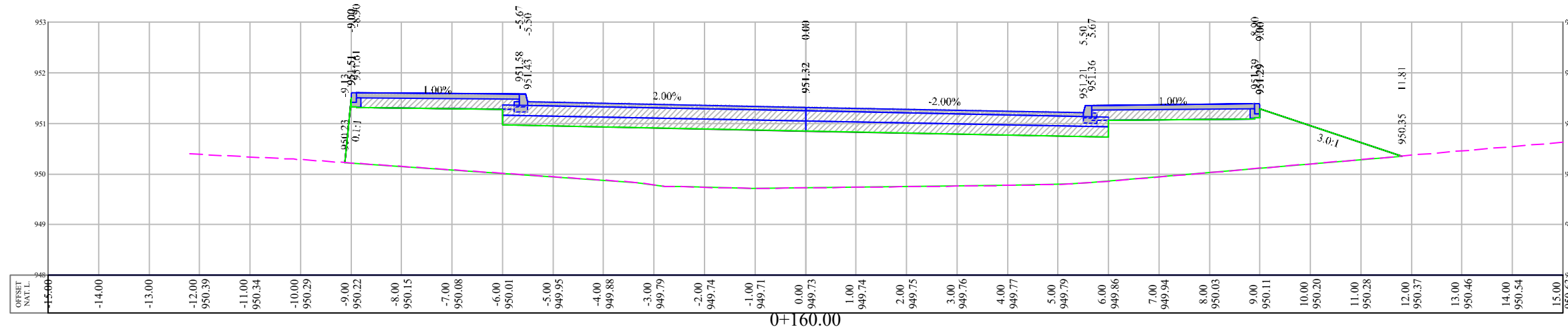


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 CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-7

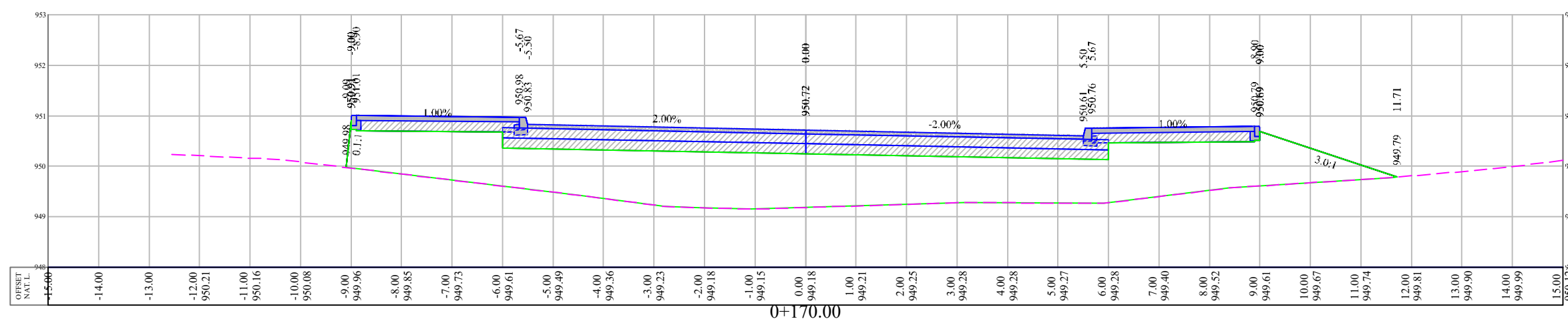
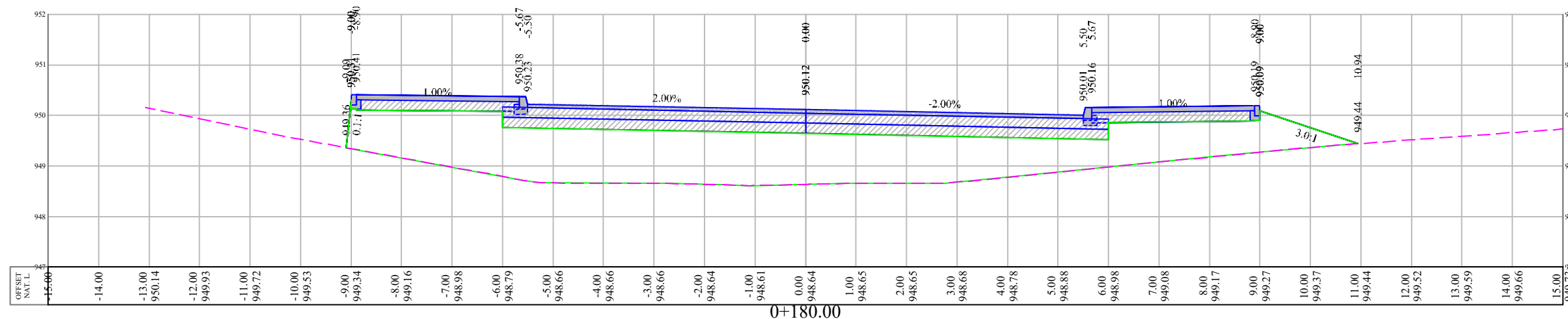
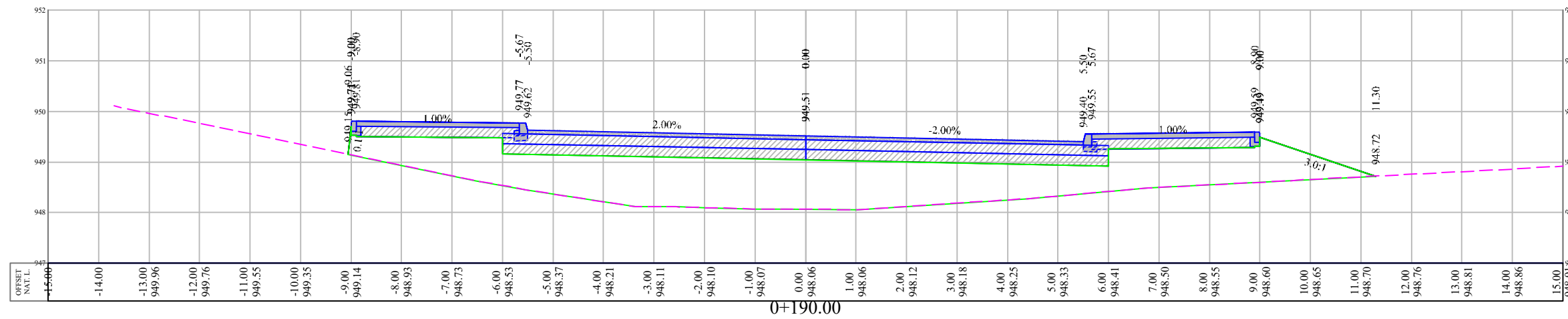


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CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-8

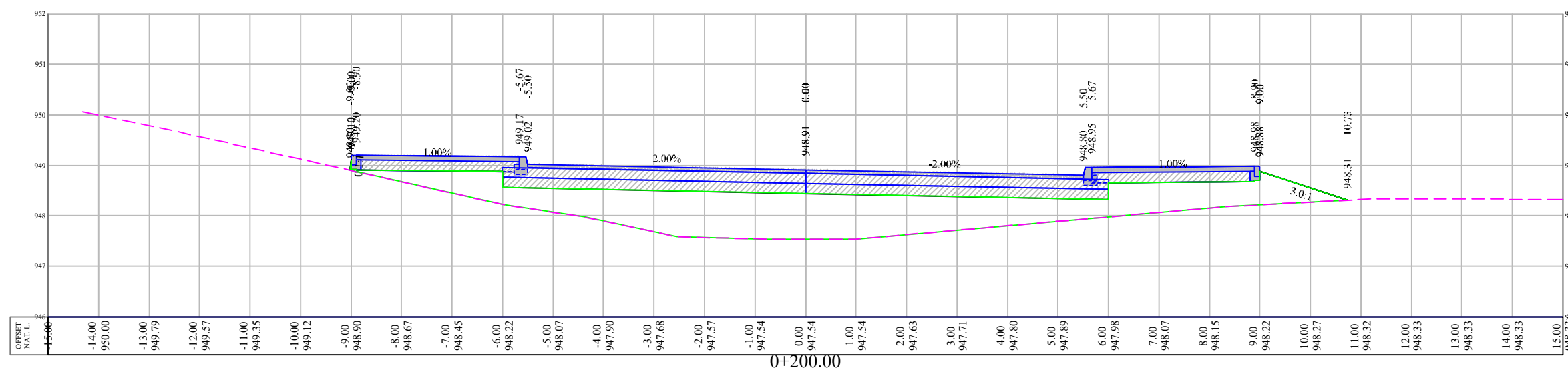
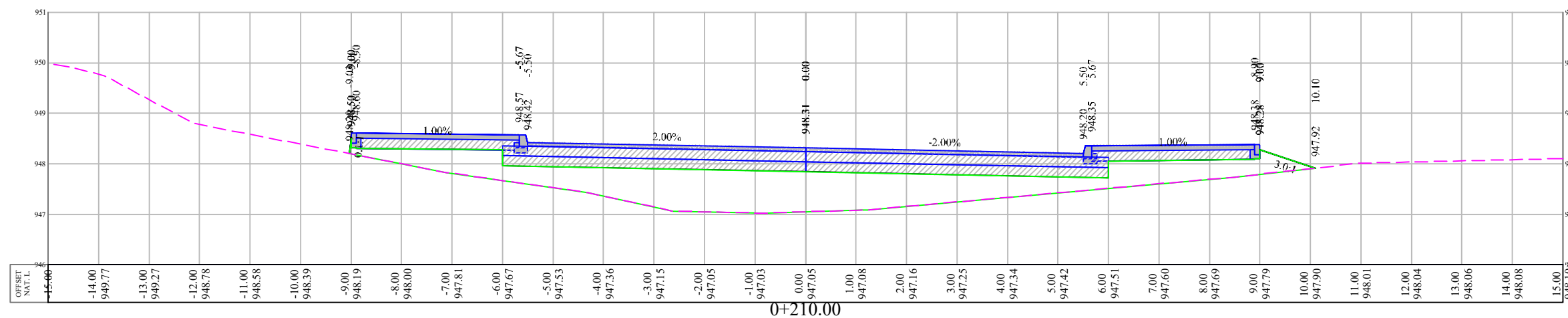
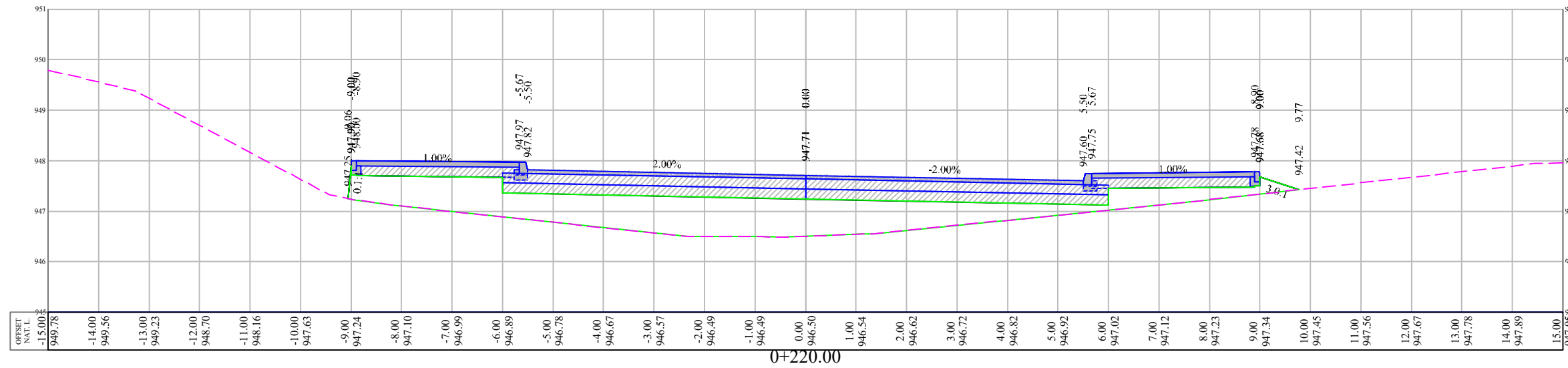


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-9

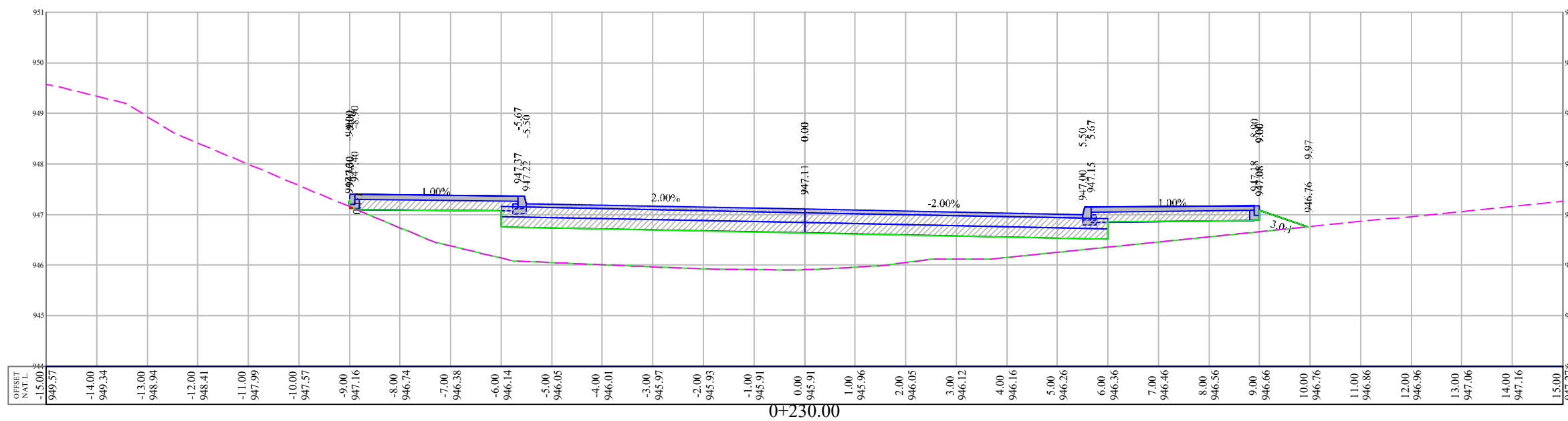
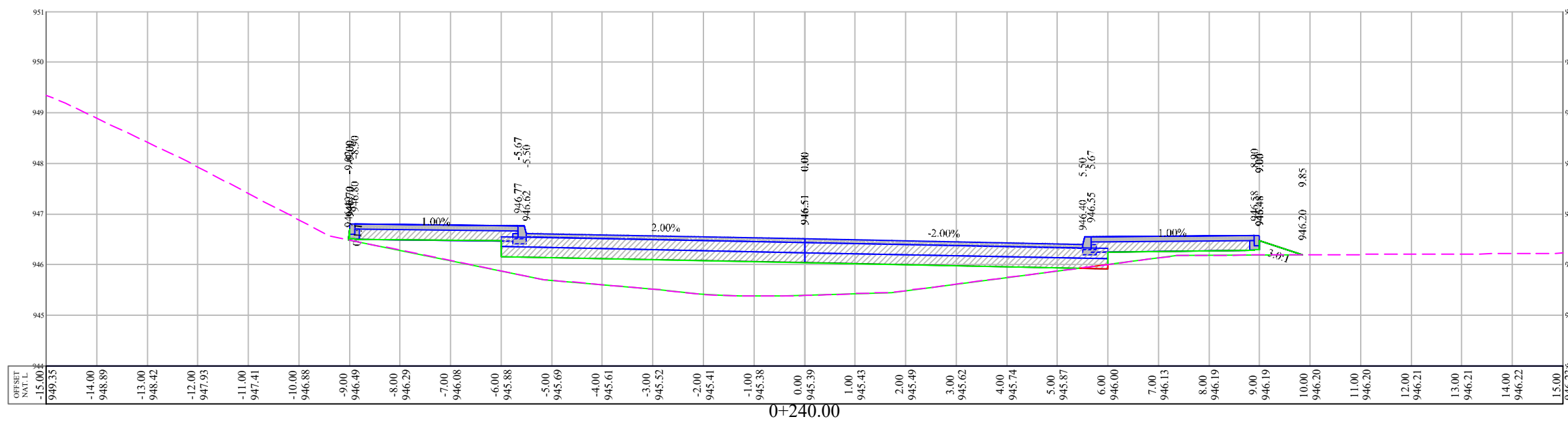
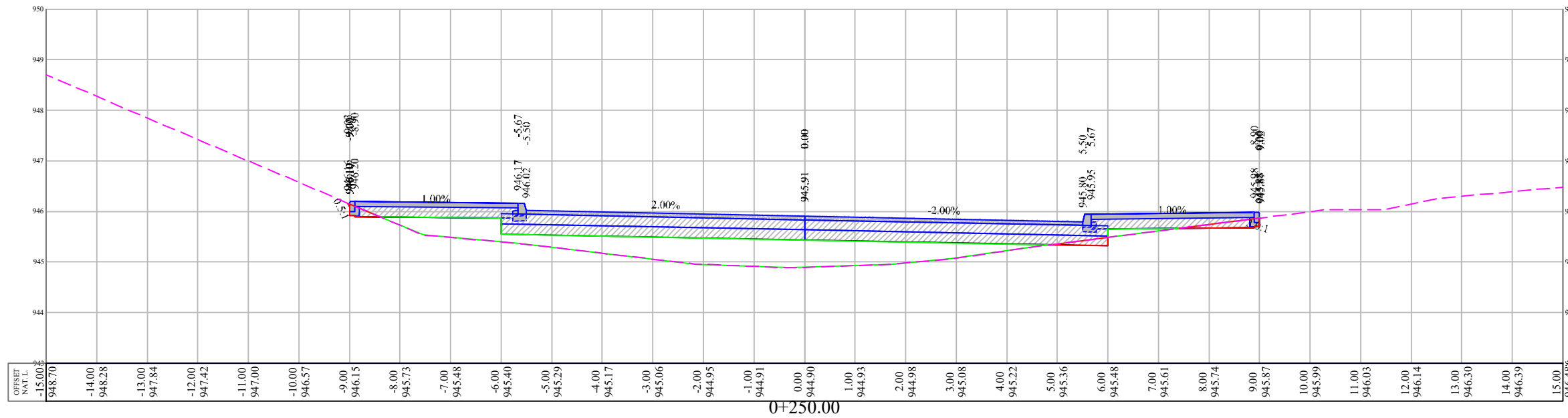


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CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-10

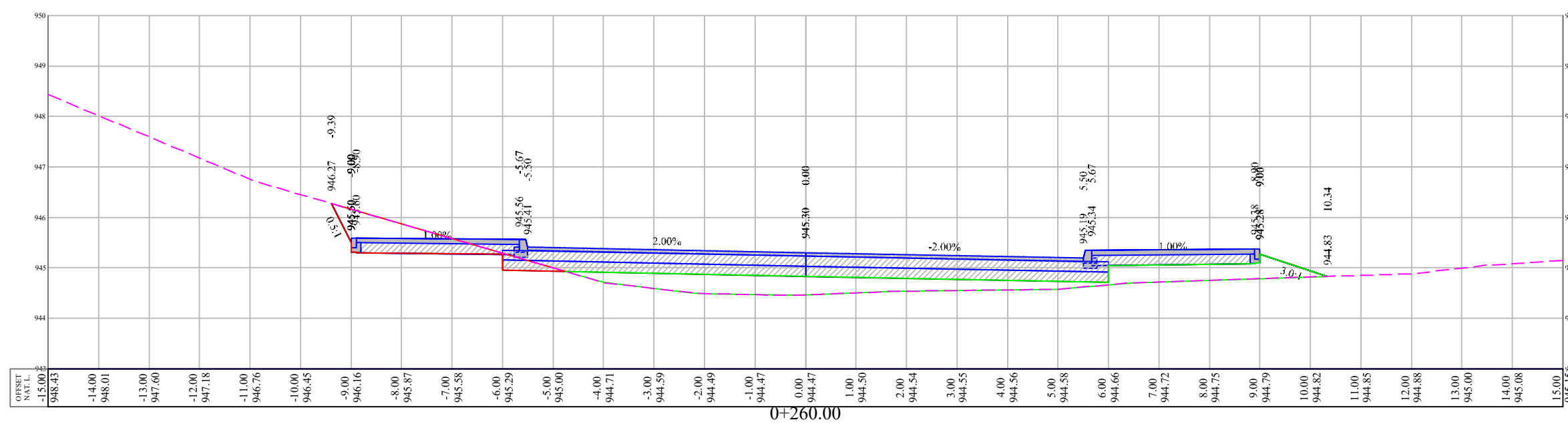
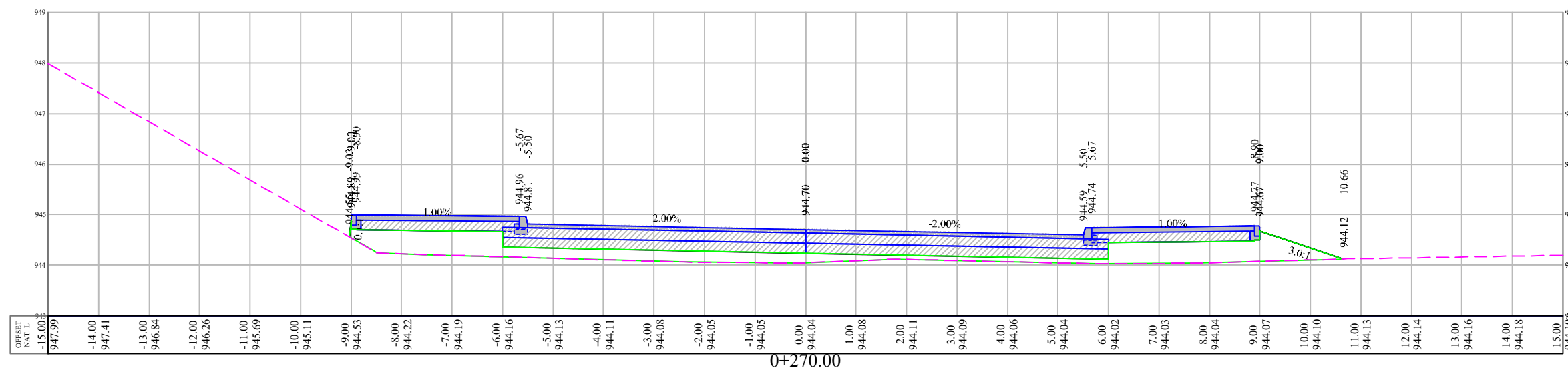
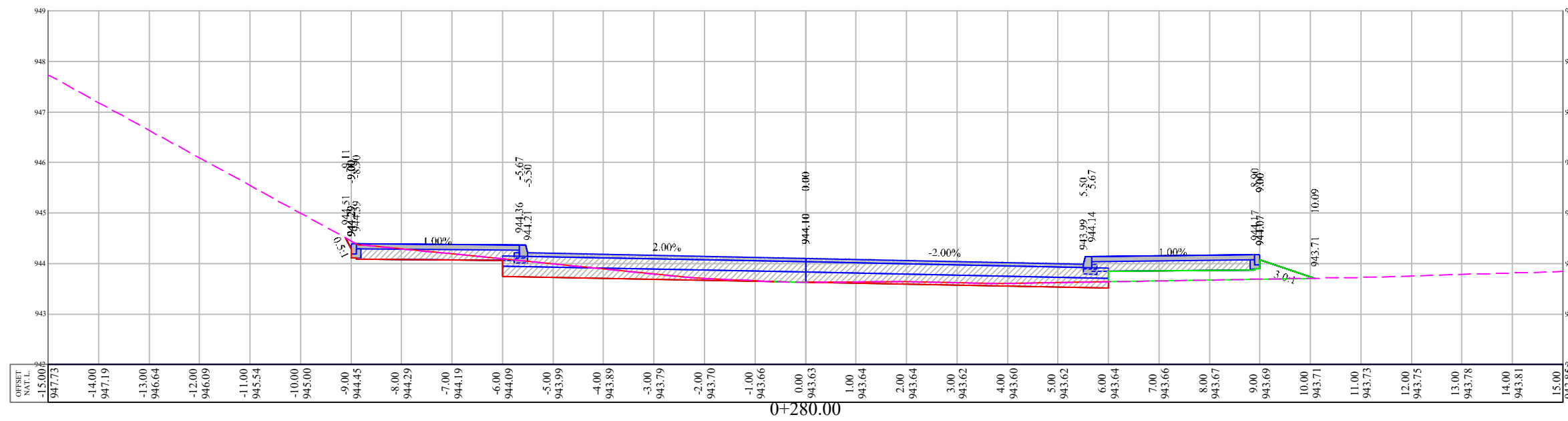


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-11

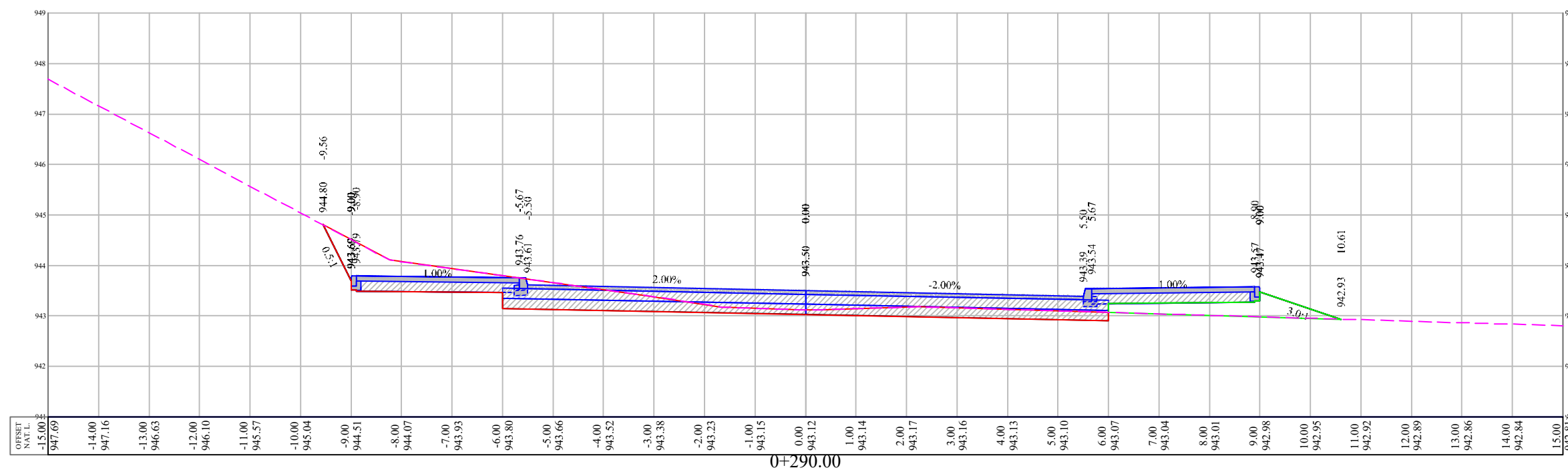
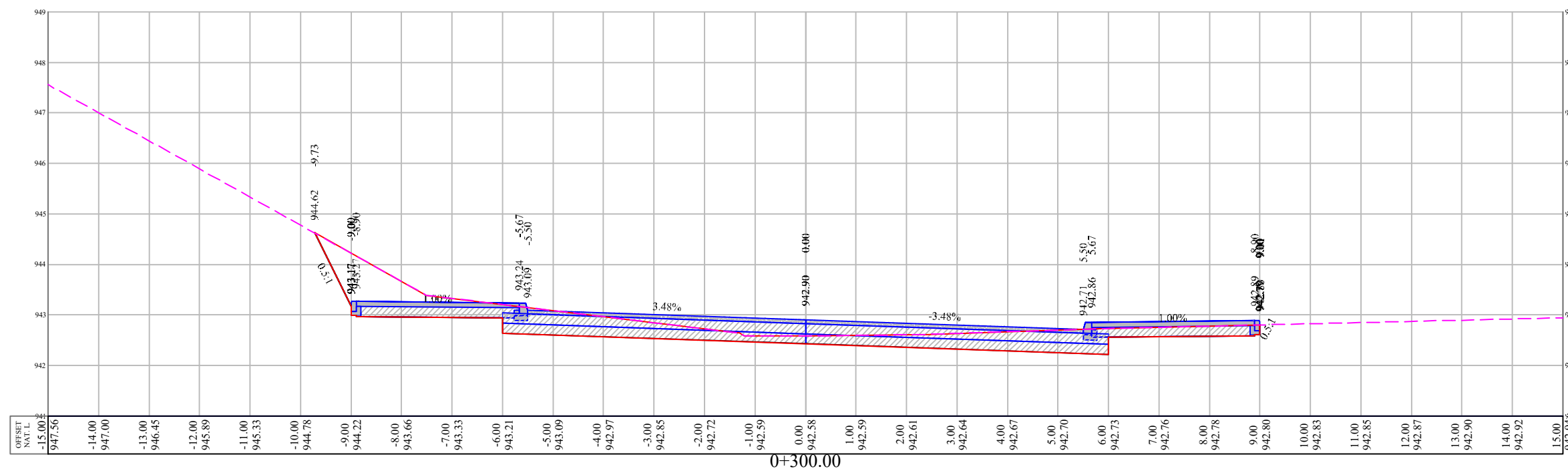


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Drawing Title

CROSS SECTION

Date January, 2024

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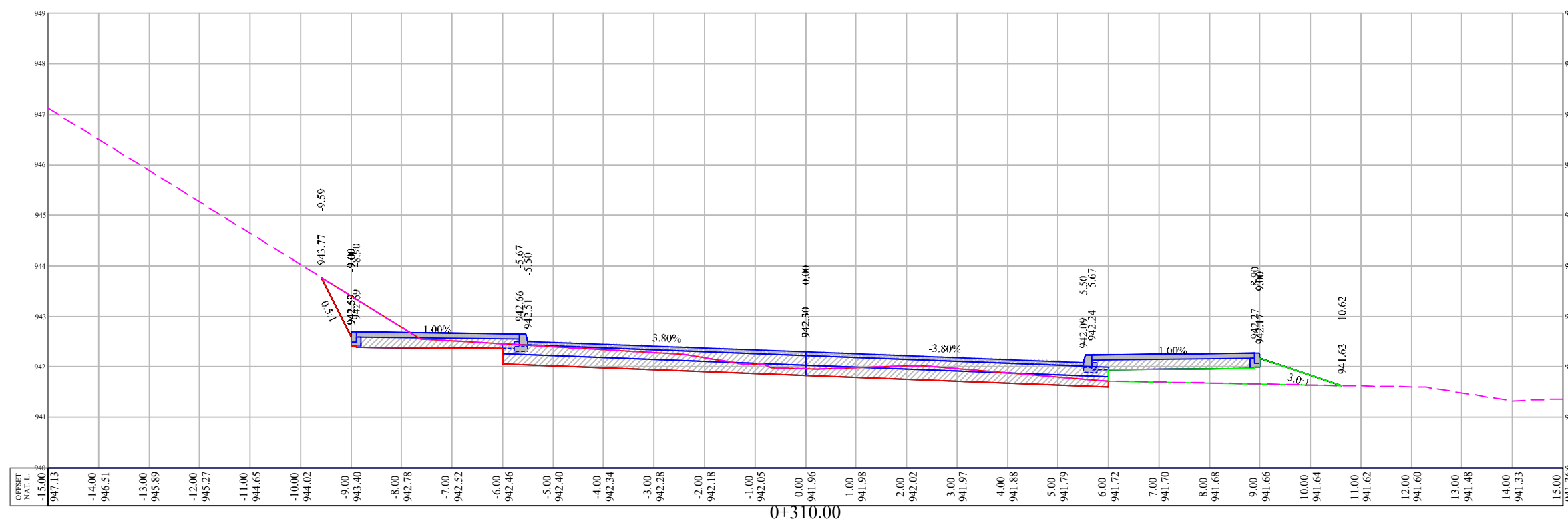
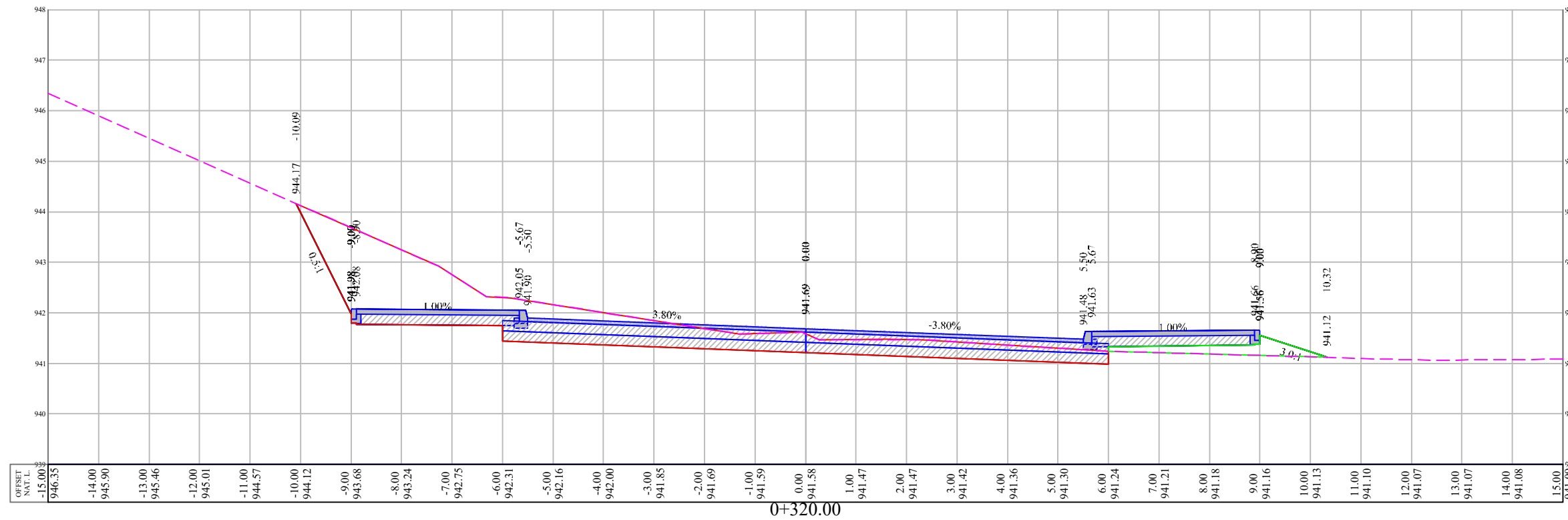


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Drawing Title

CROSS SECTION

Date January, 2024

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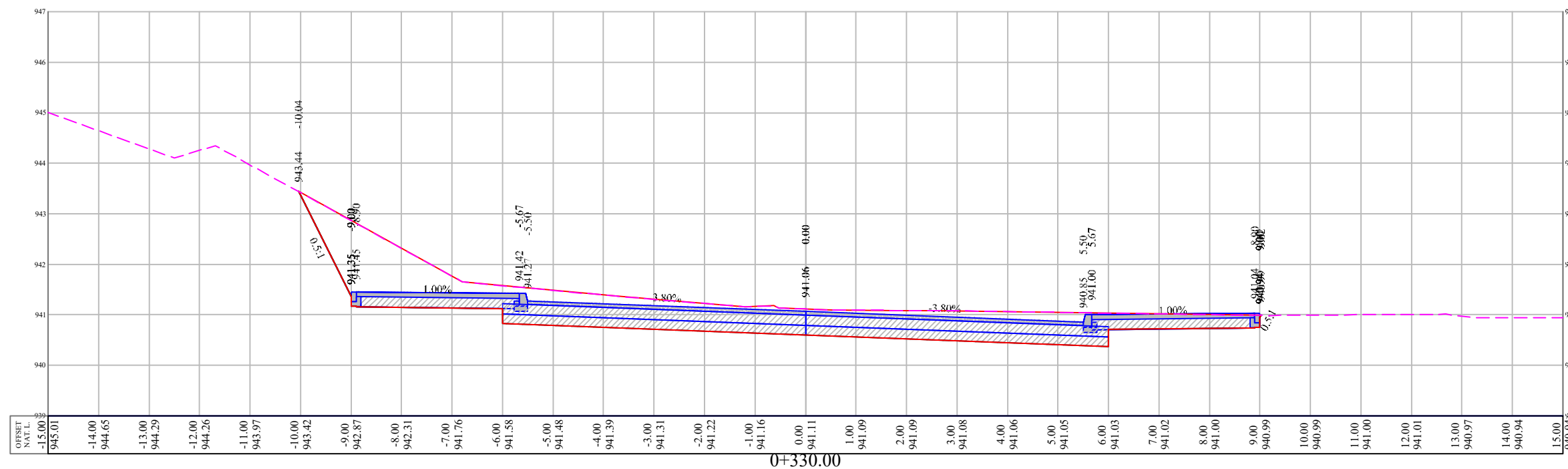
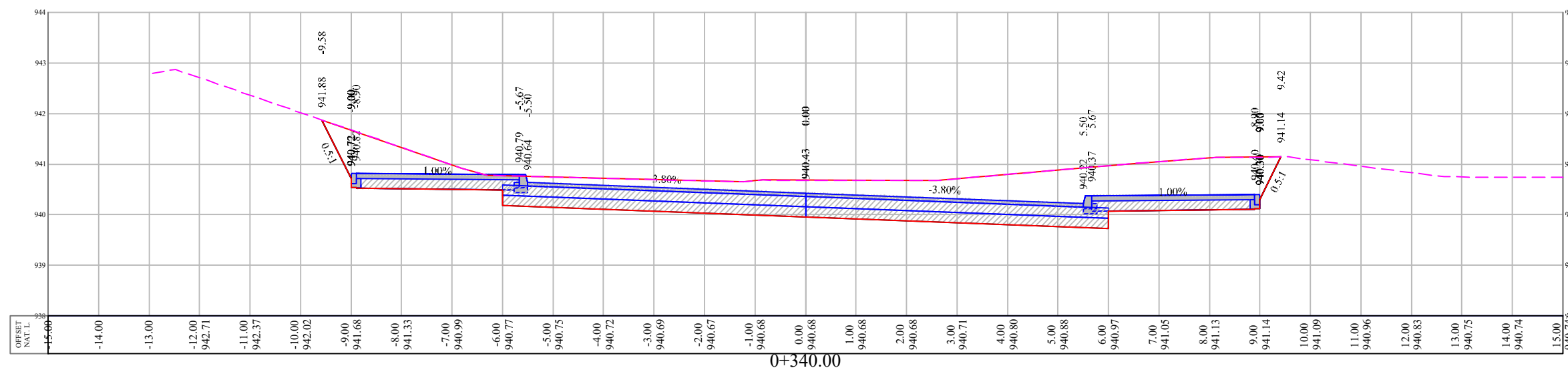
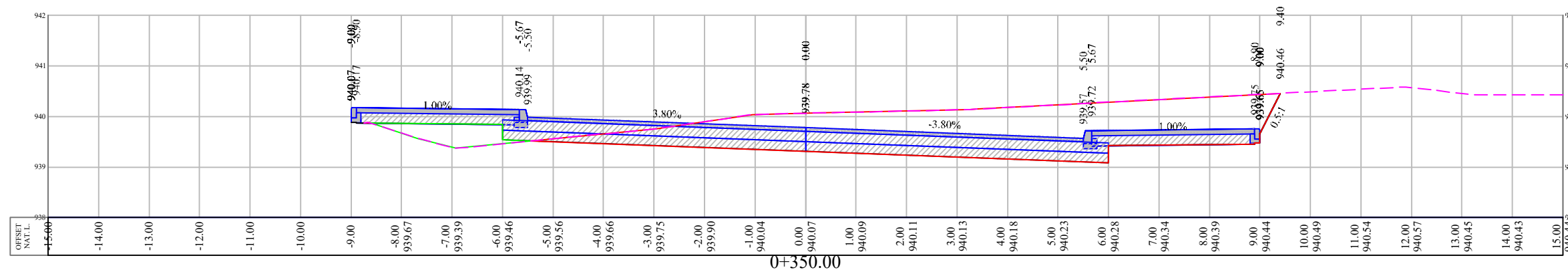


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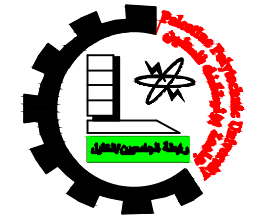
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Drawing Title

CROSS SECTION

Date January, 2024

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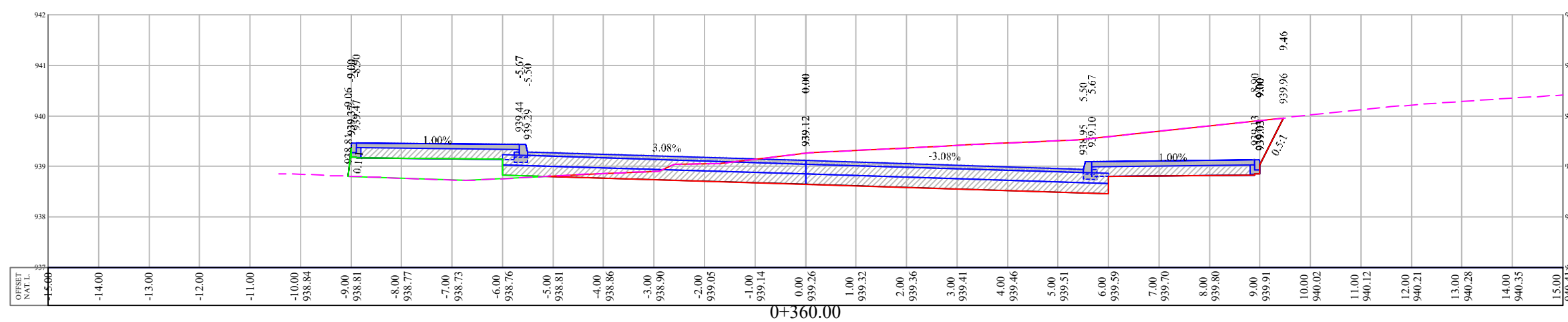
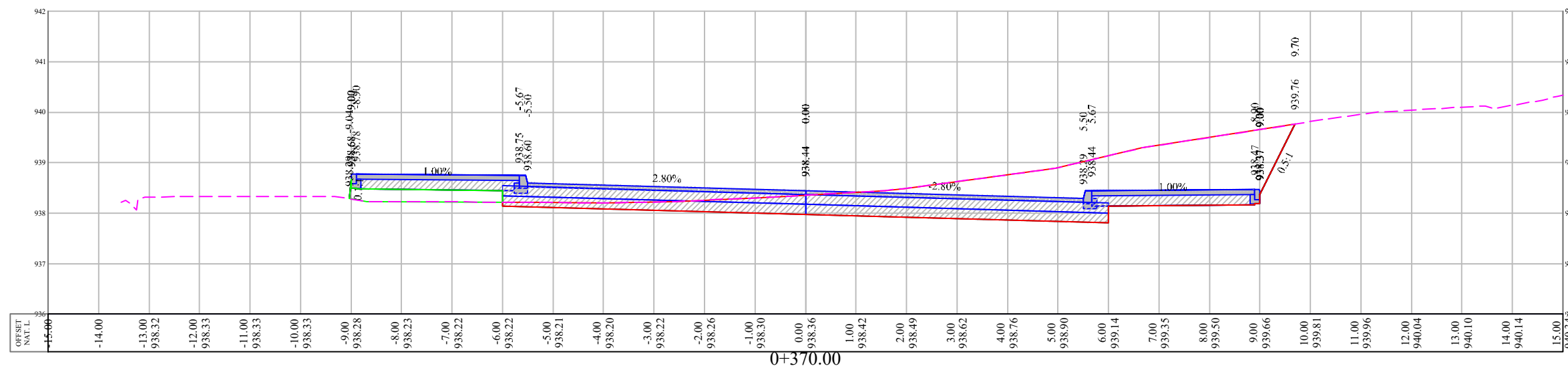
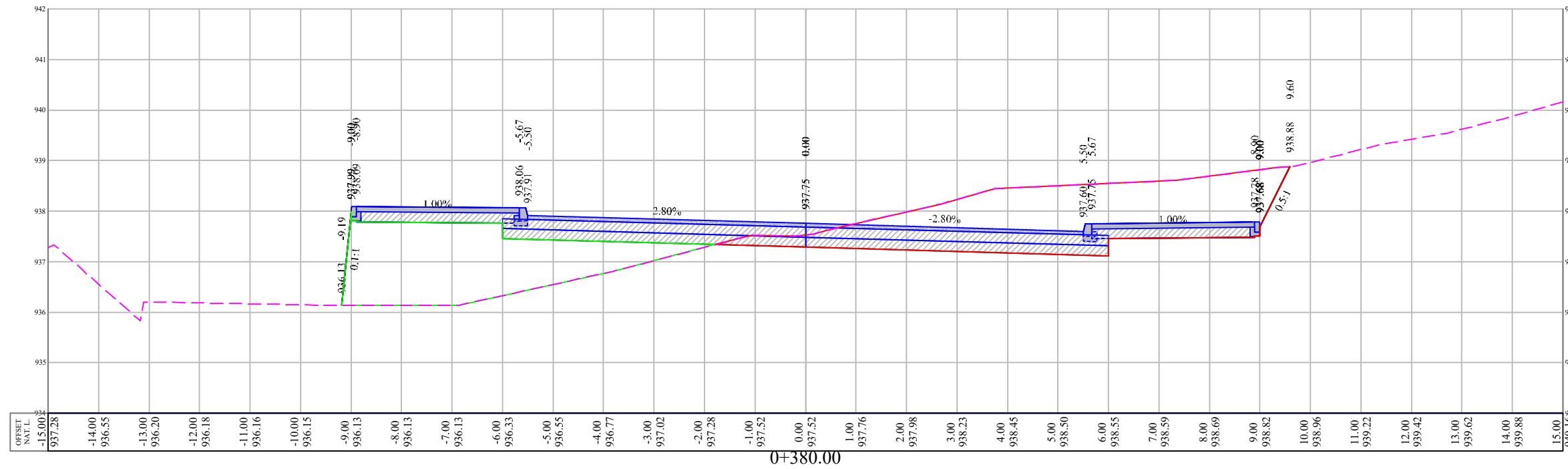


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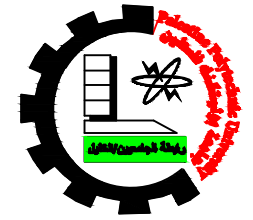
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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-15

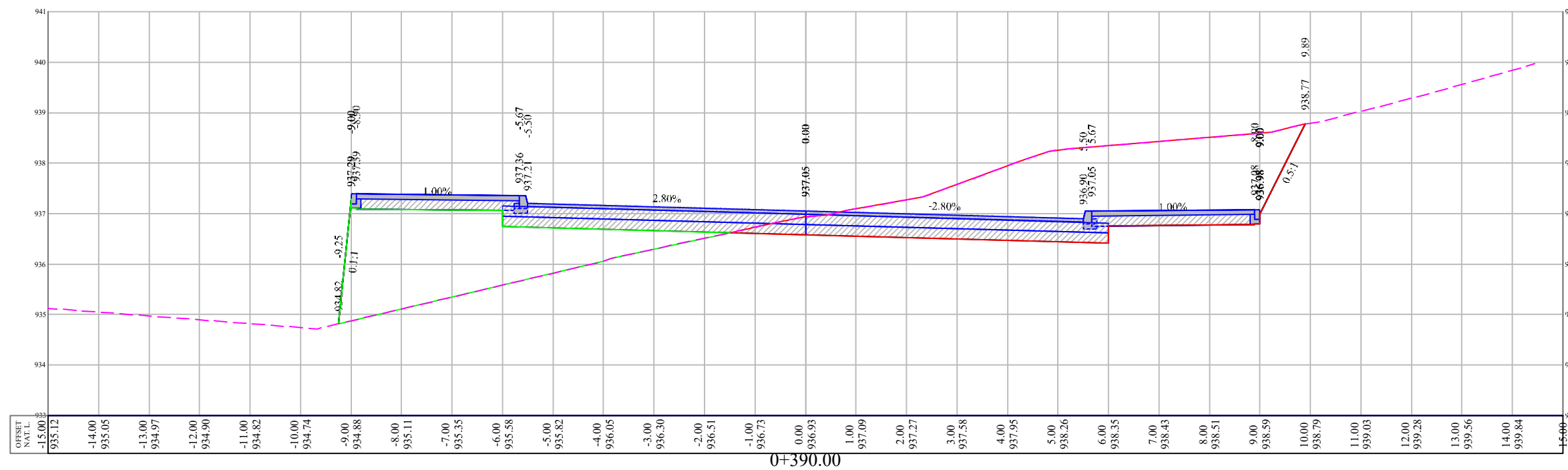
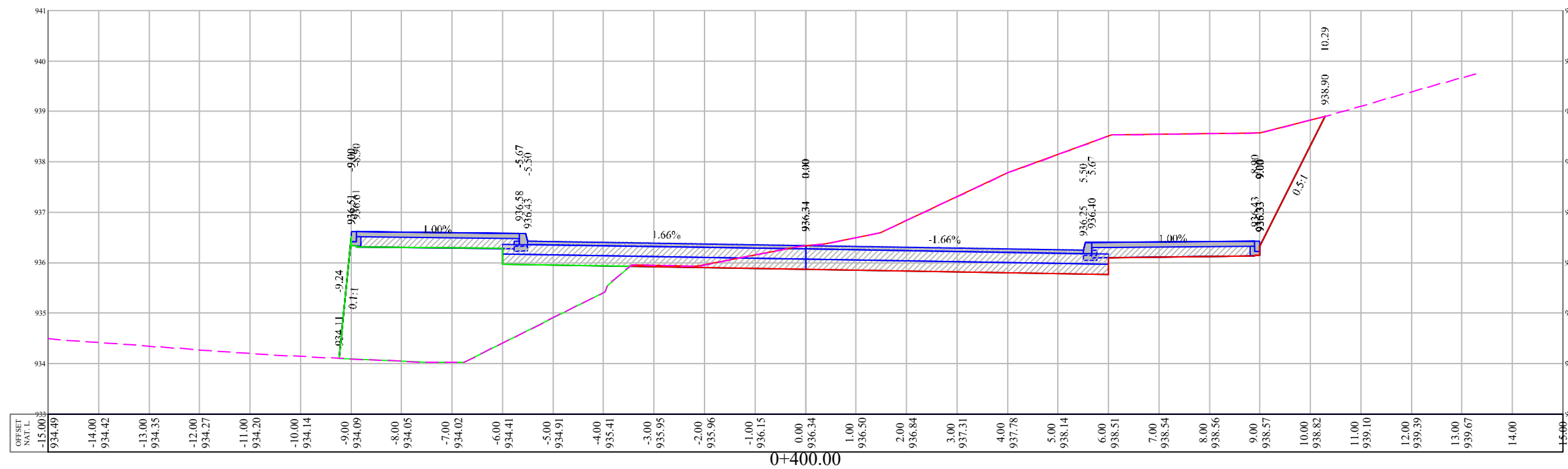


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-16

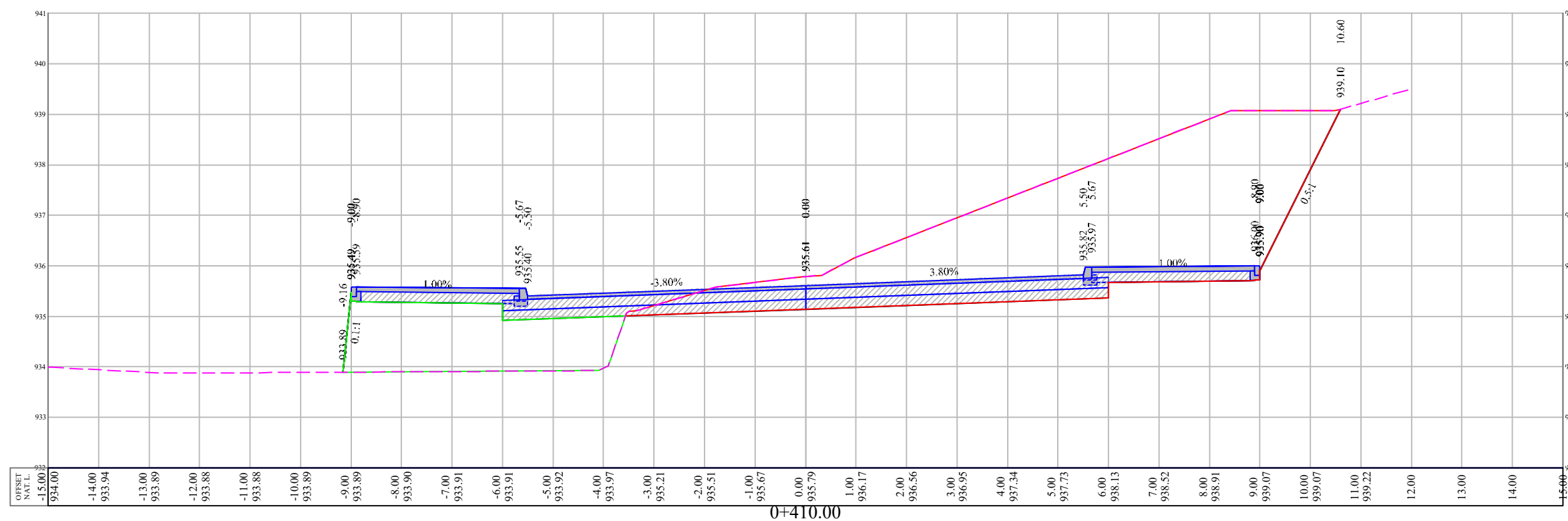
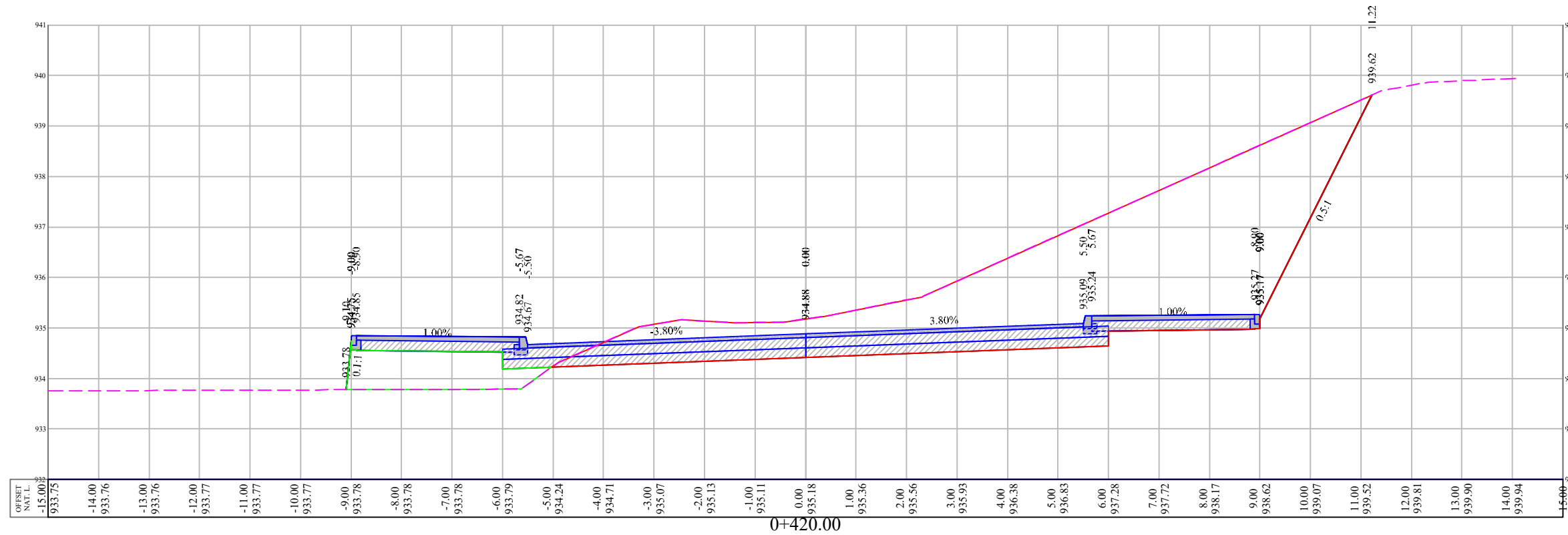


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Anwar Shweiki
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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-17

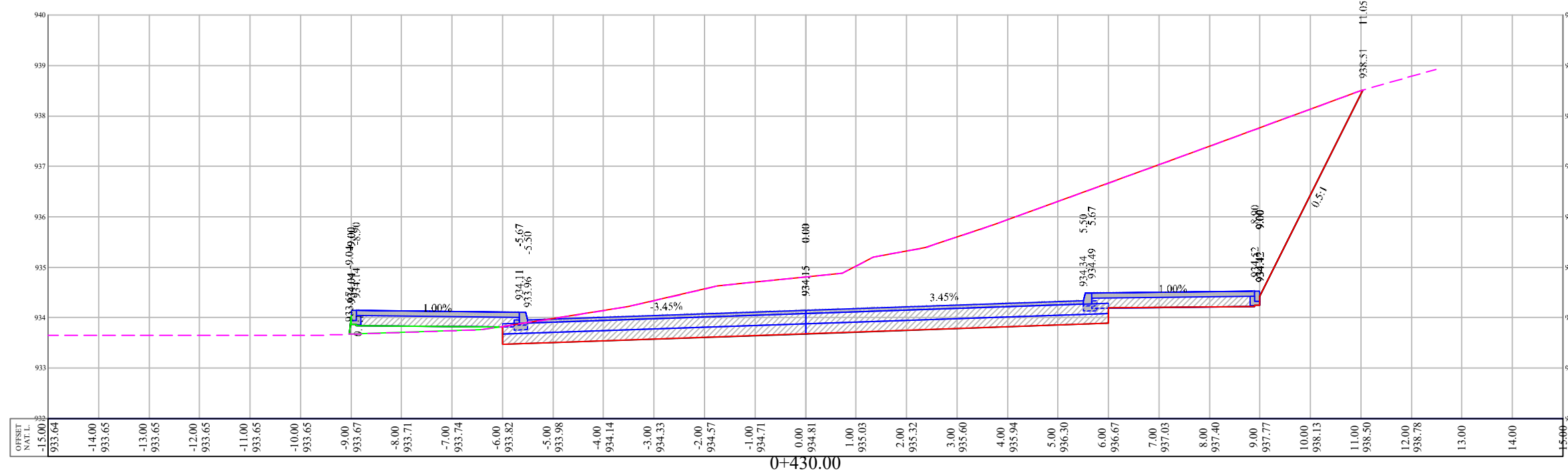
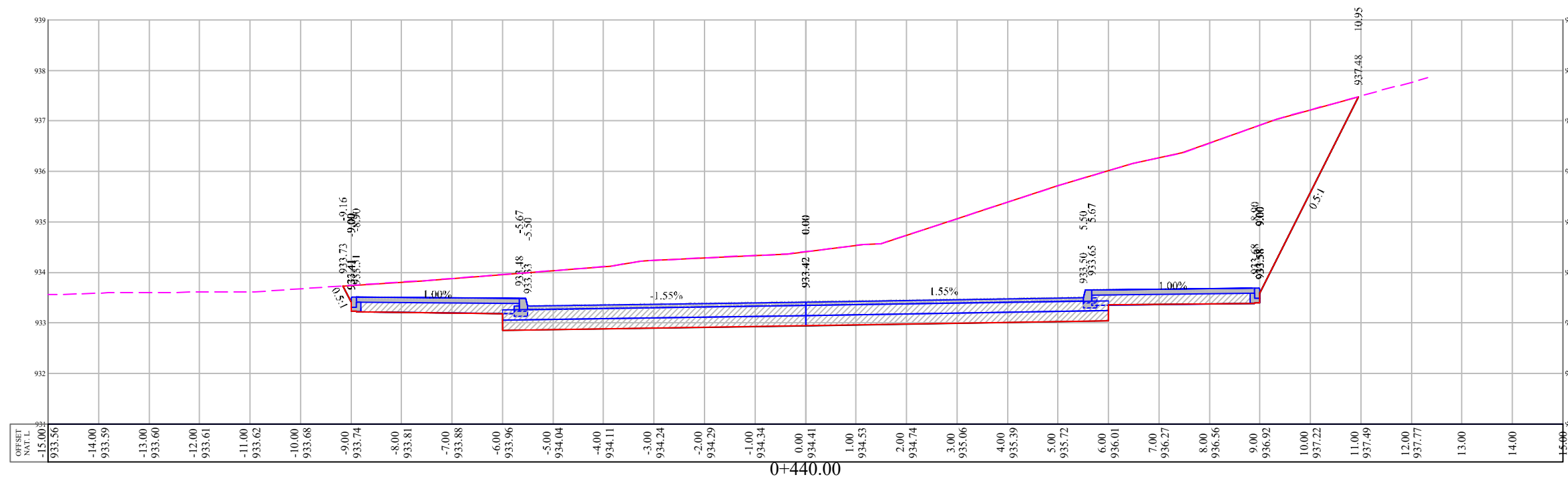


GENERAL NOTES:

1. ALL STATIONS, COORDINATES AND LEVELS ARE IN METERS.
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3. COORDINATES AND ELEVATIONS REFER TO THE PALESTINIAN GRID SYSTEM.
4. ALL EXISTING STONE WALL AND CONCRETE WALL LOCATED IN CARRIAGE WAY TO BE REMOVED AND CONSTRUCT NEW ONE.
5. ALL EXISTING TREE LOCATED IN CARRIAGE WAY TO BE RELOCATED.

LEGEND

- NATURAL GROUND LEVEL
- PROPOSED GROUND LEVEL
- SUB-GRADE LEVEL
- ASPHALT
- BASE COURSE
- CONCRETE SIDE WALK



Design and Rehalitation
 Haska Road

SUPERVISOR
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TEAM work
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 Osaid Imar

Drawing Title
 CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-18

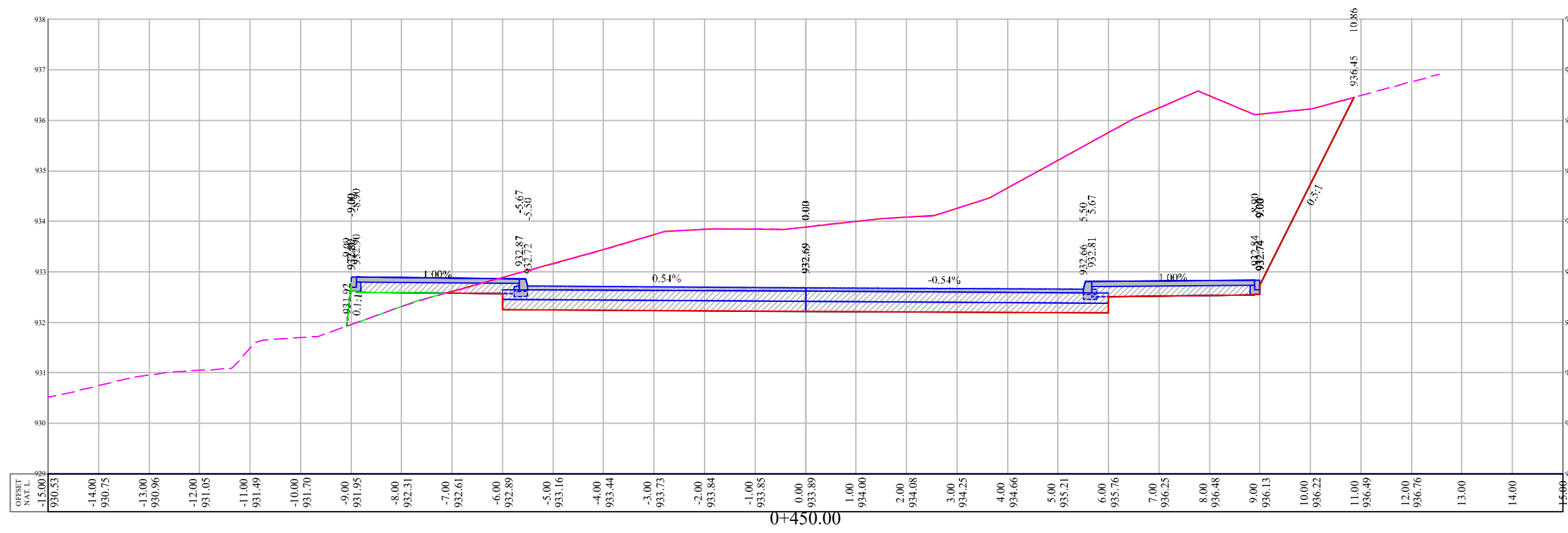
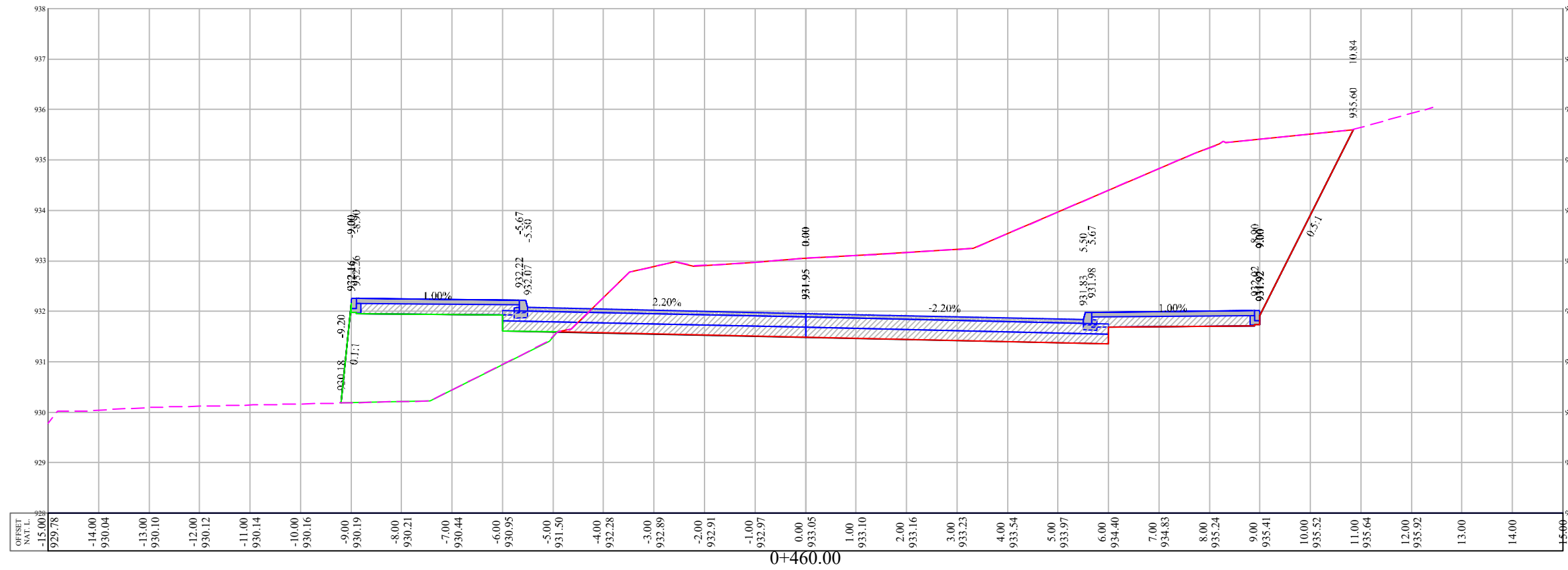


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**Design and Rehalitation
 Haska Road**

**SUPERVISOR
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TEAM work

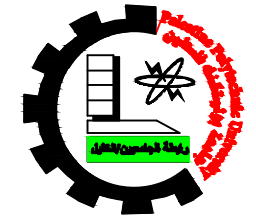
Anwar Shweiki
 Osaid Imar

Drawing Title

CROSS SECTION

Date January, 2024

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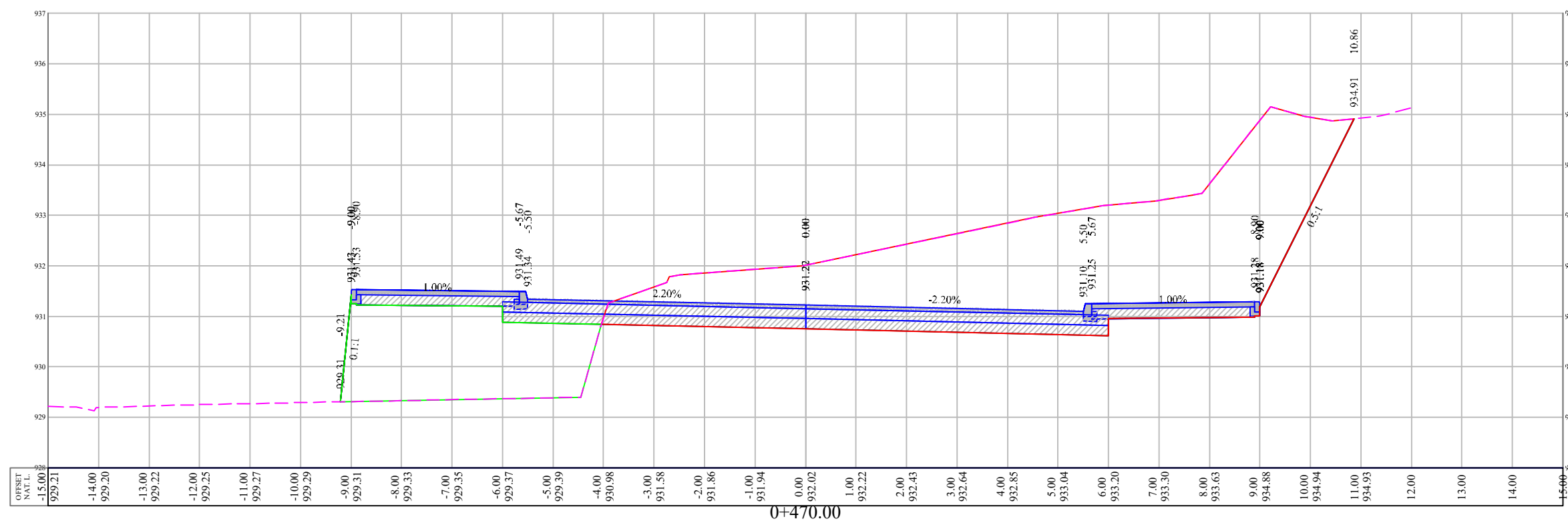
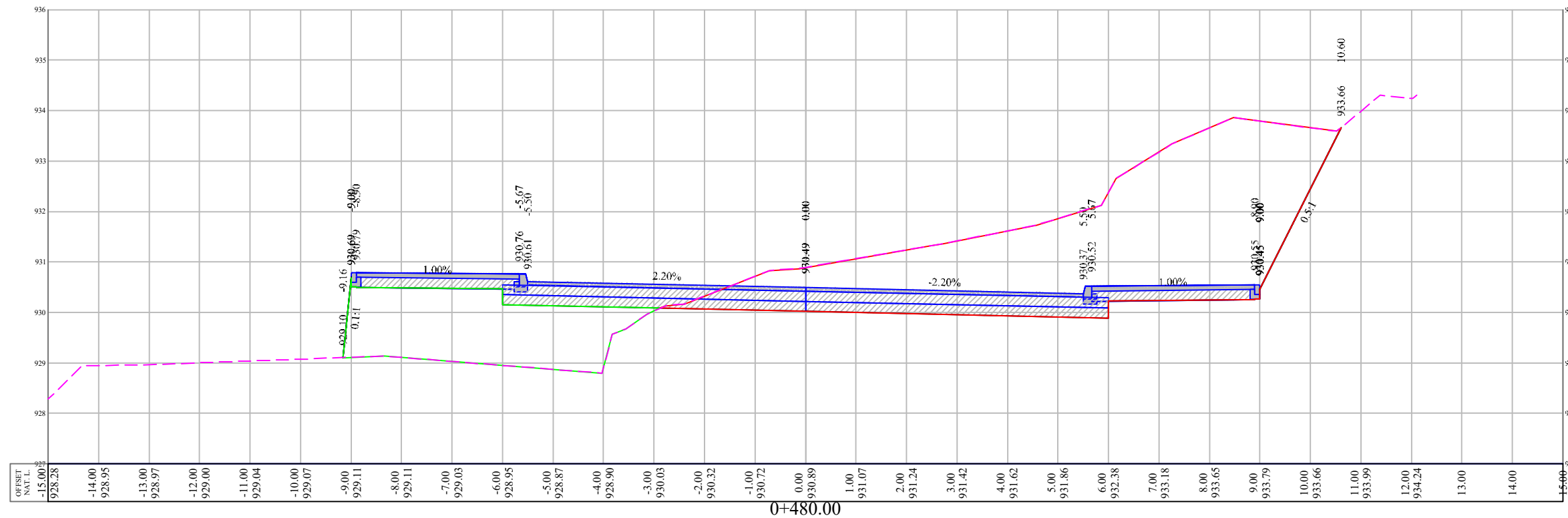


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CROSS SECTION

Date January, 2024

Scale H 1:100
 V 1:100 S-20

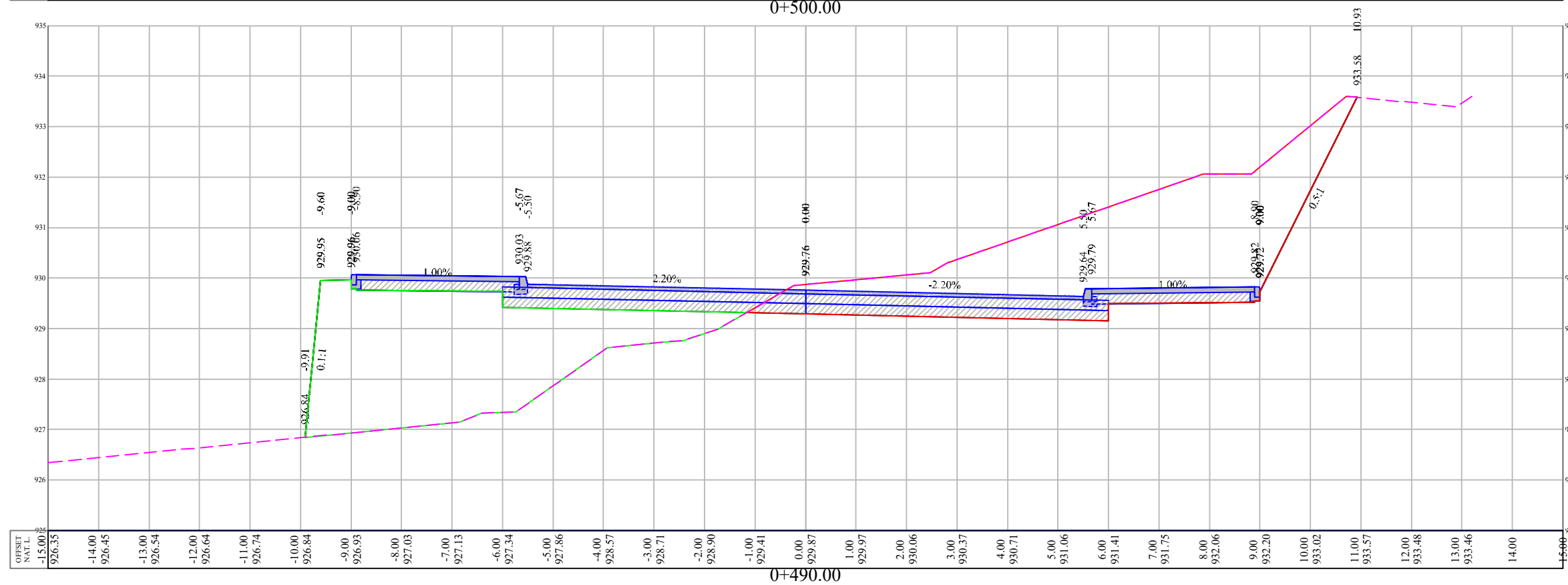
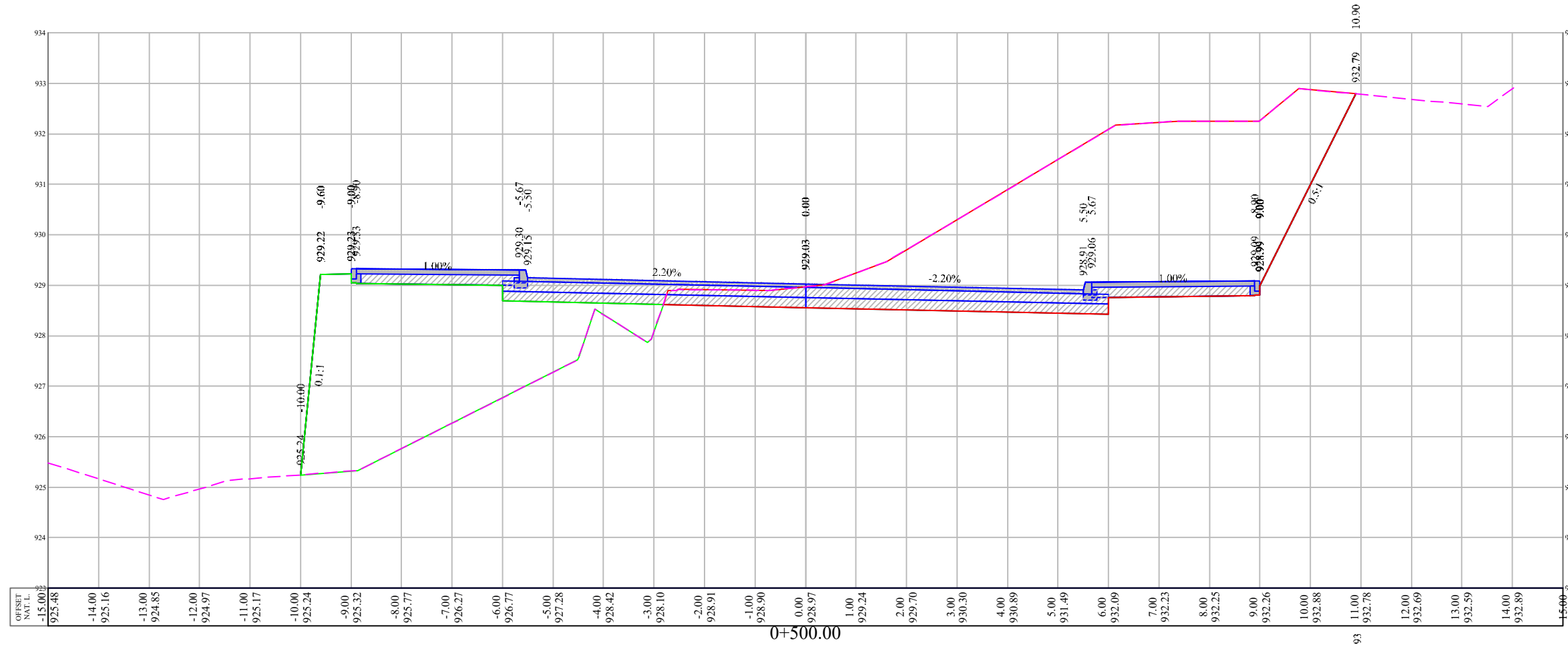


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-21

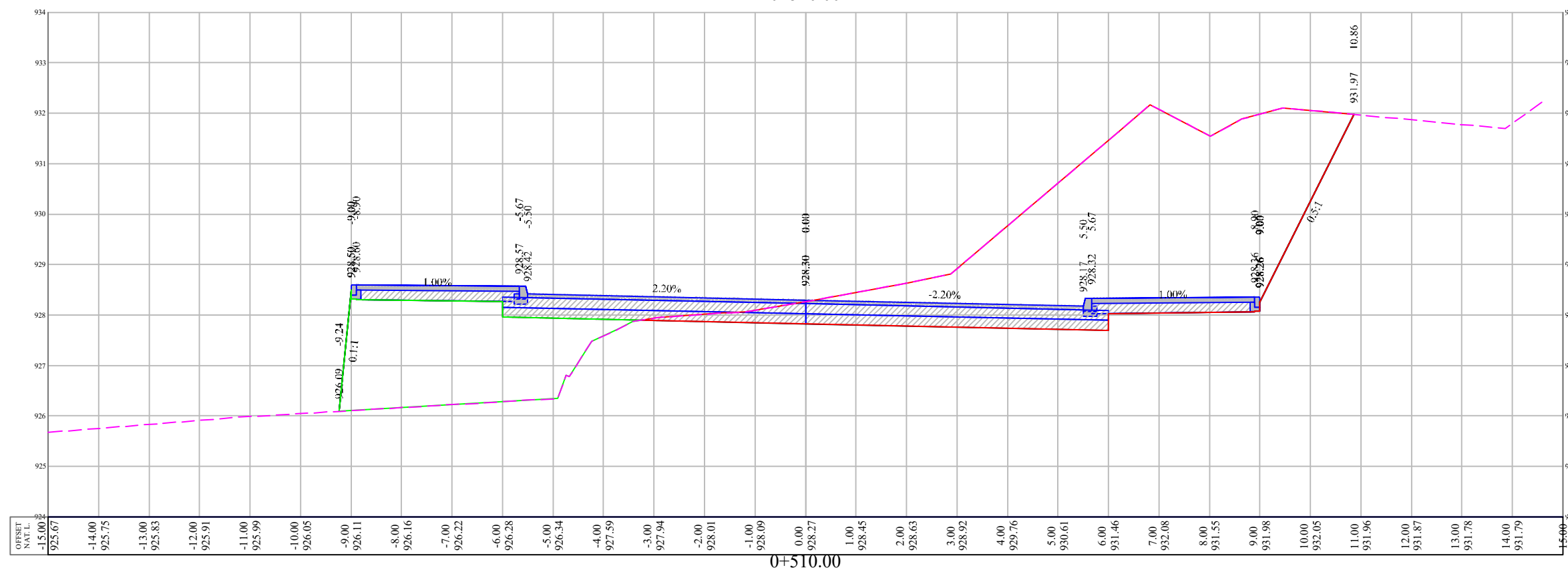
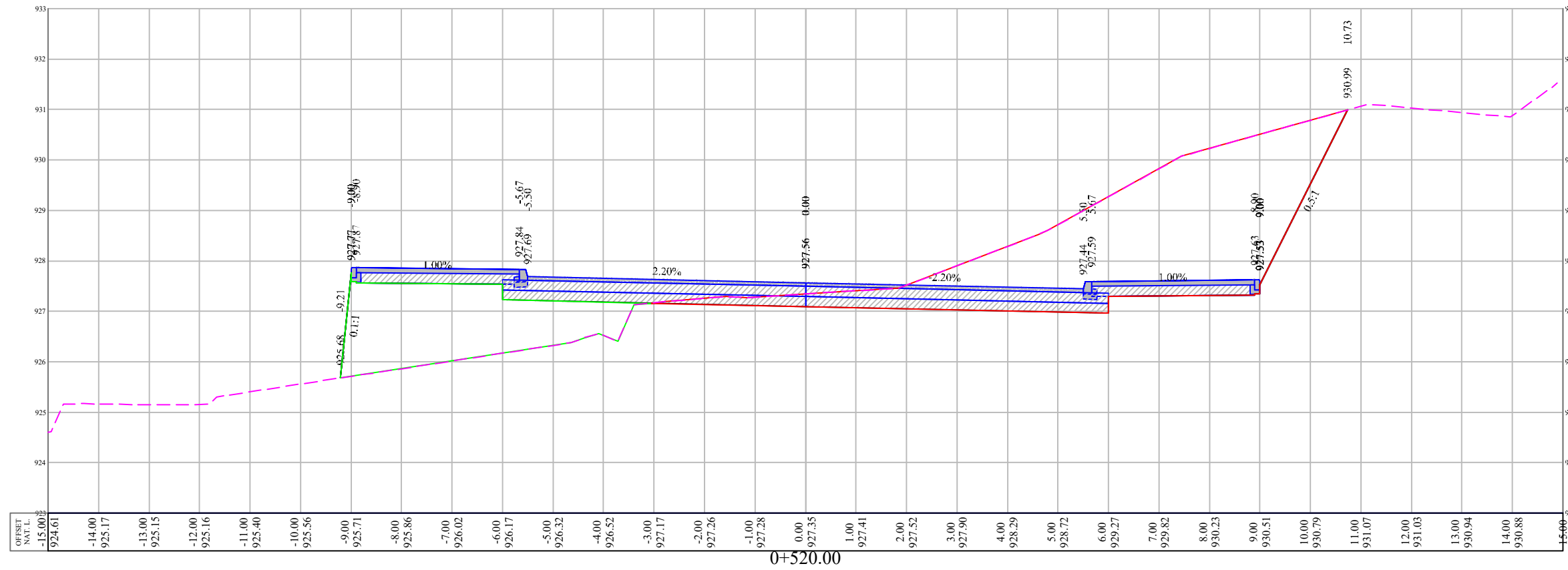


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CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-22

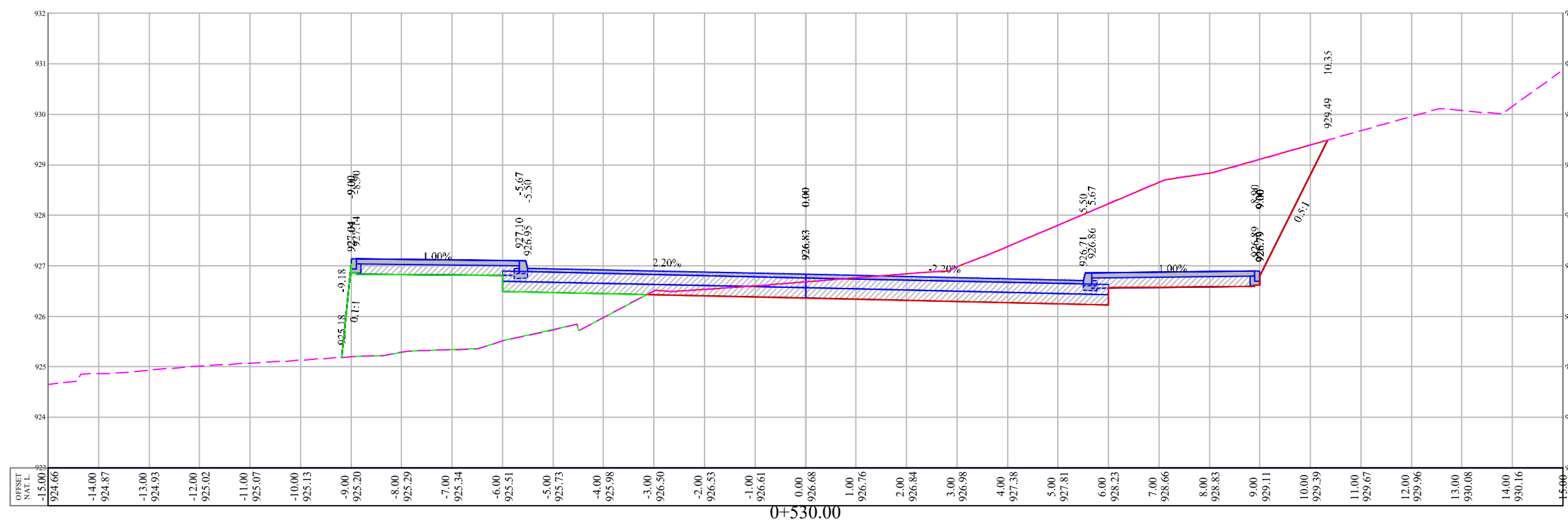
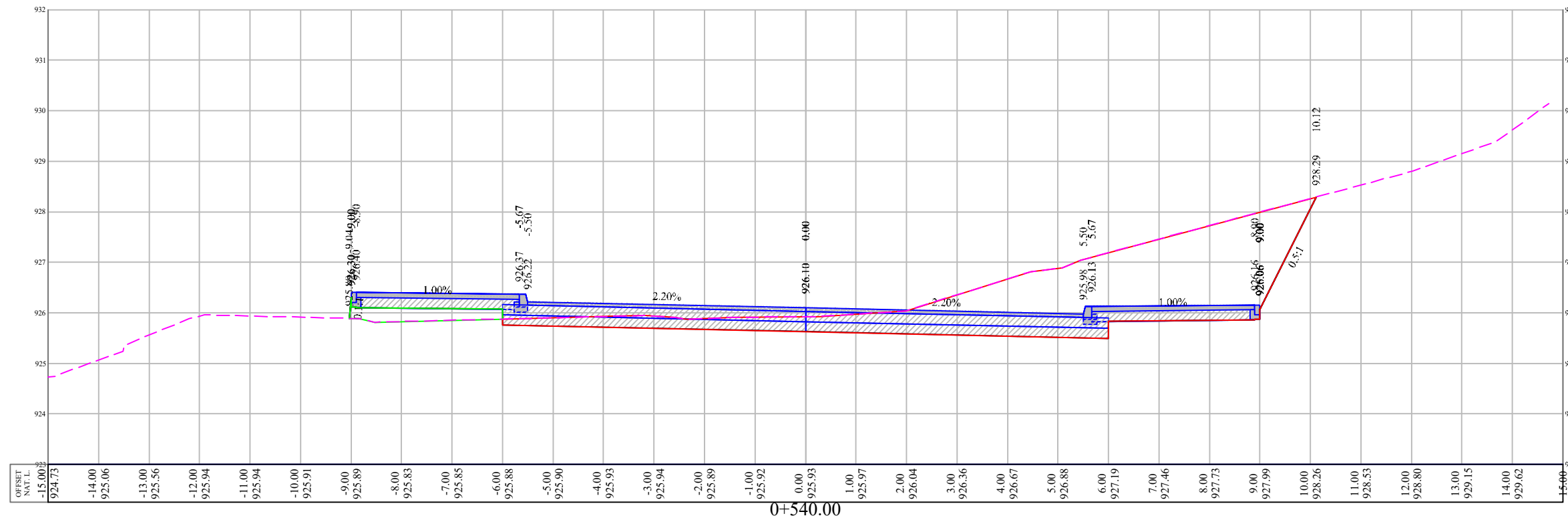


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CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-23

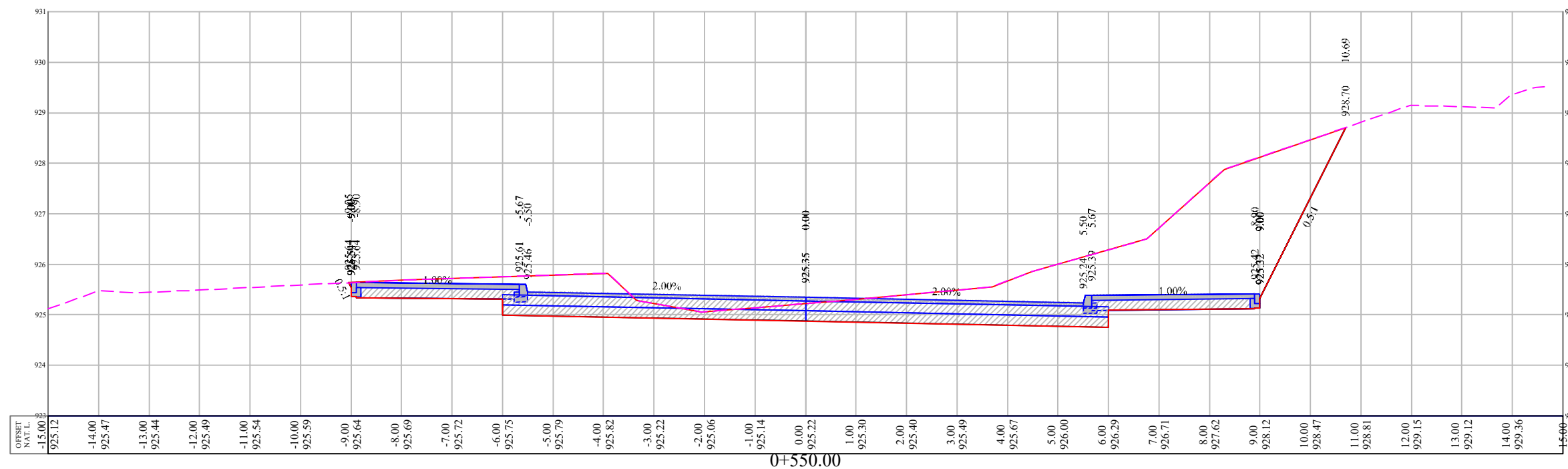
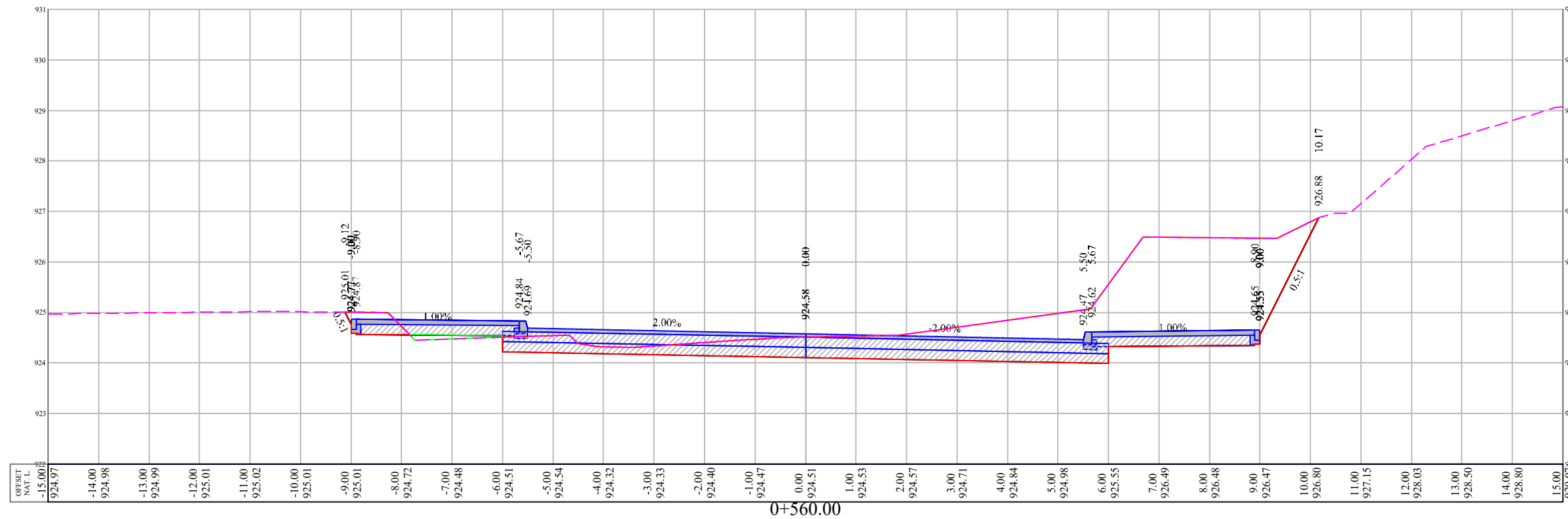


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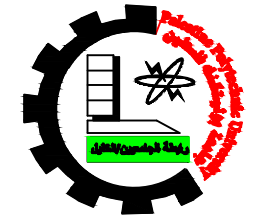
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Drawing Title

CROSS SECTION

Date January, 2024

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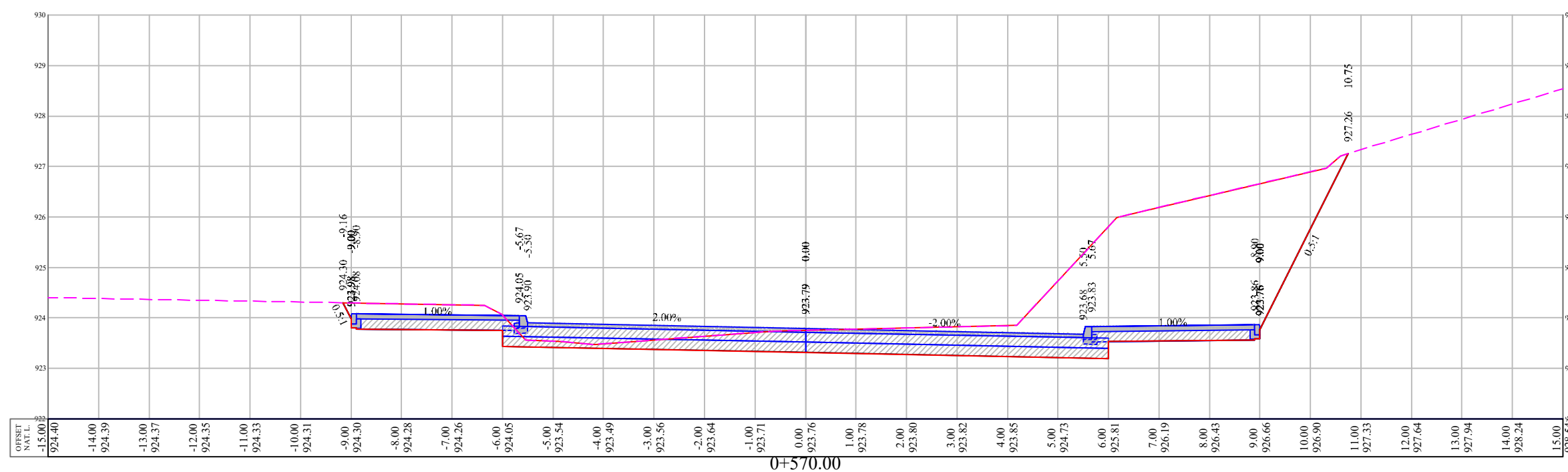
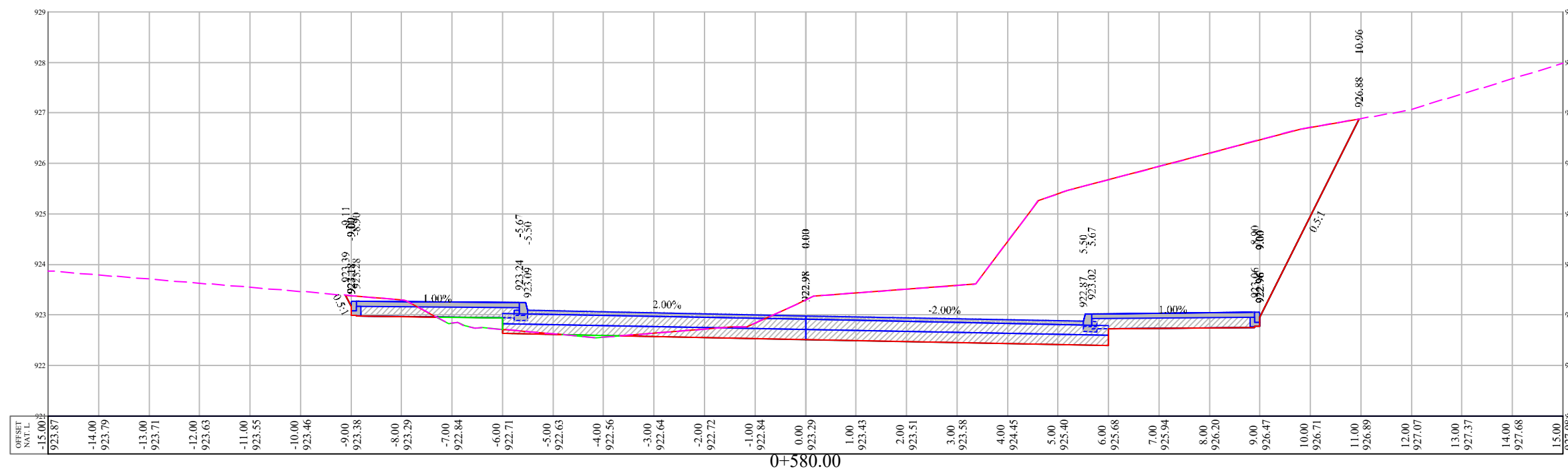


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CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-25

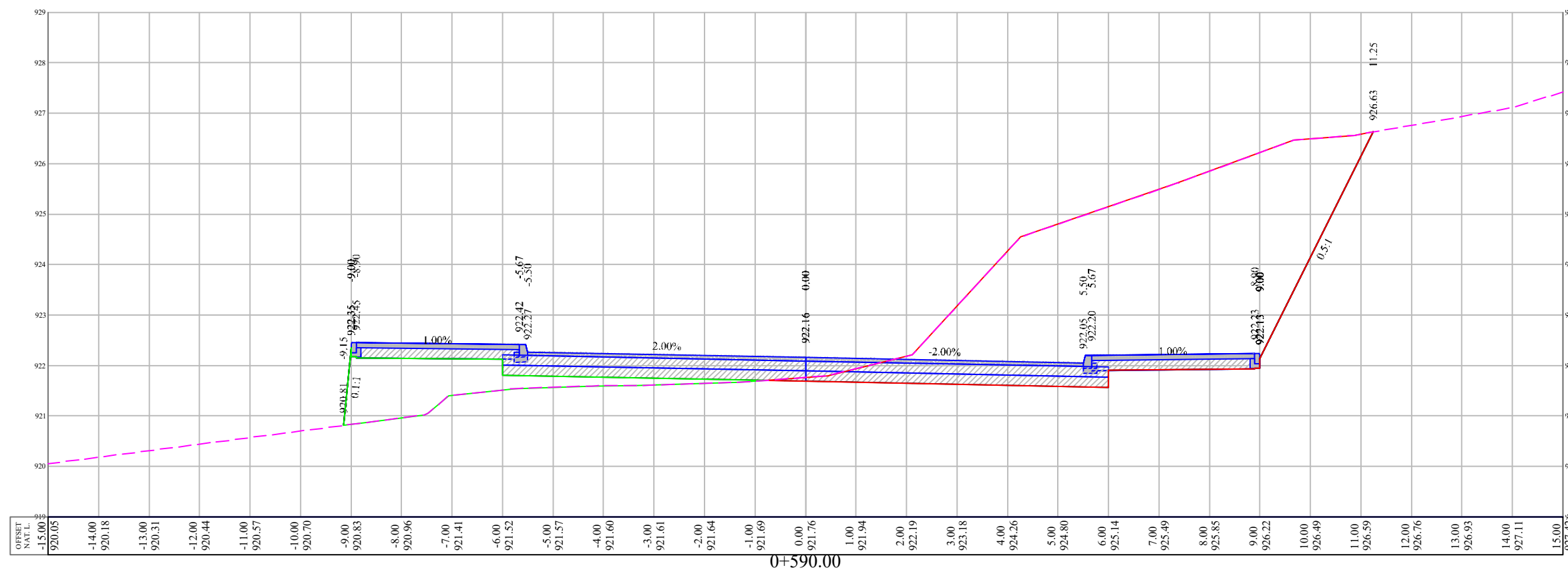
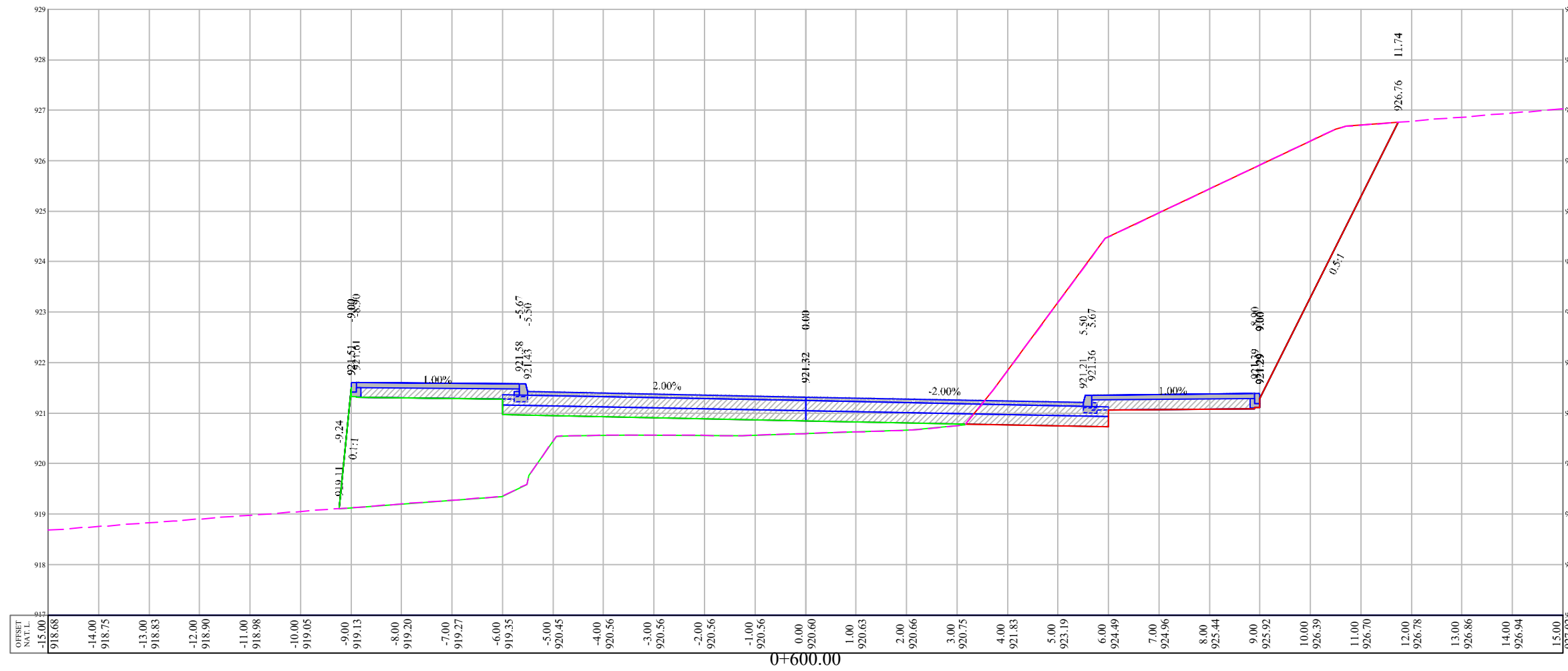


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-26

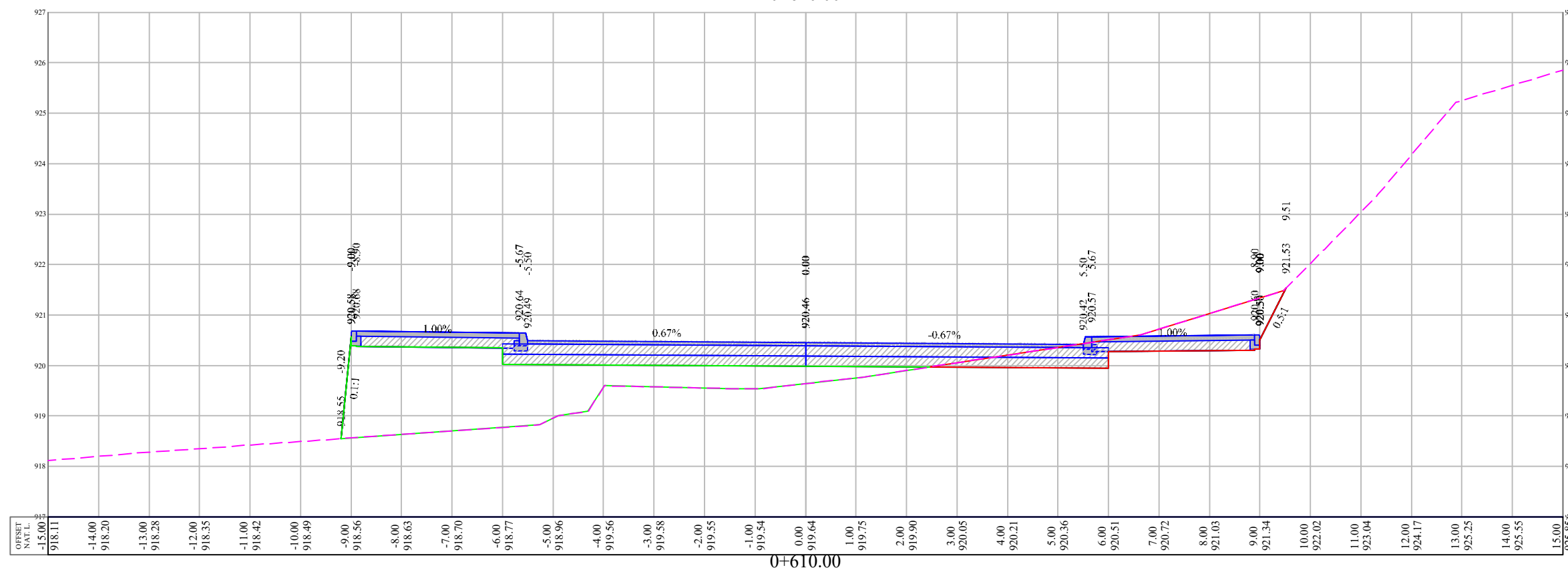
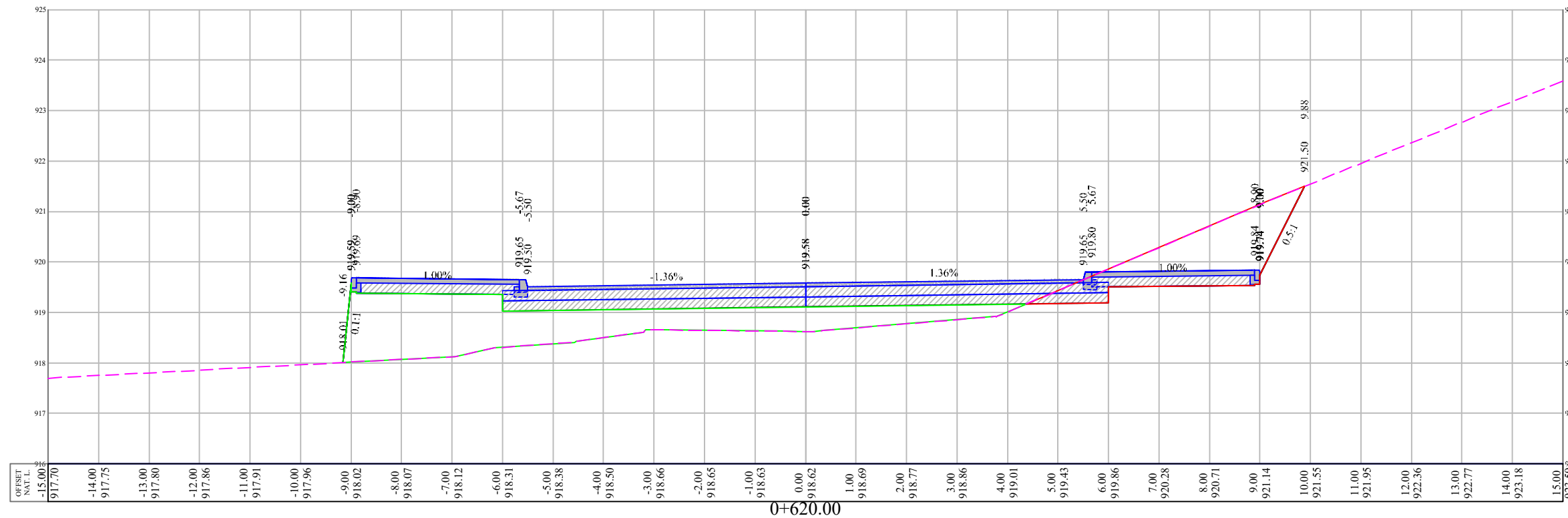


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CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-27

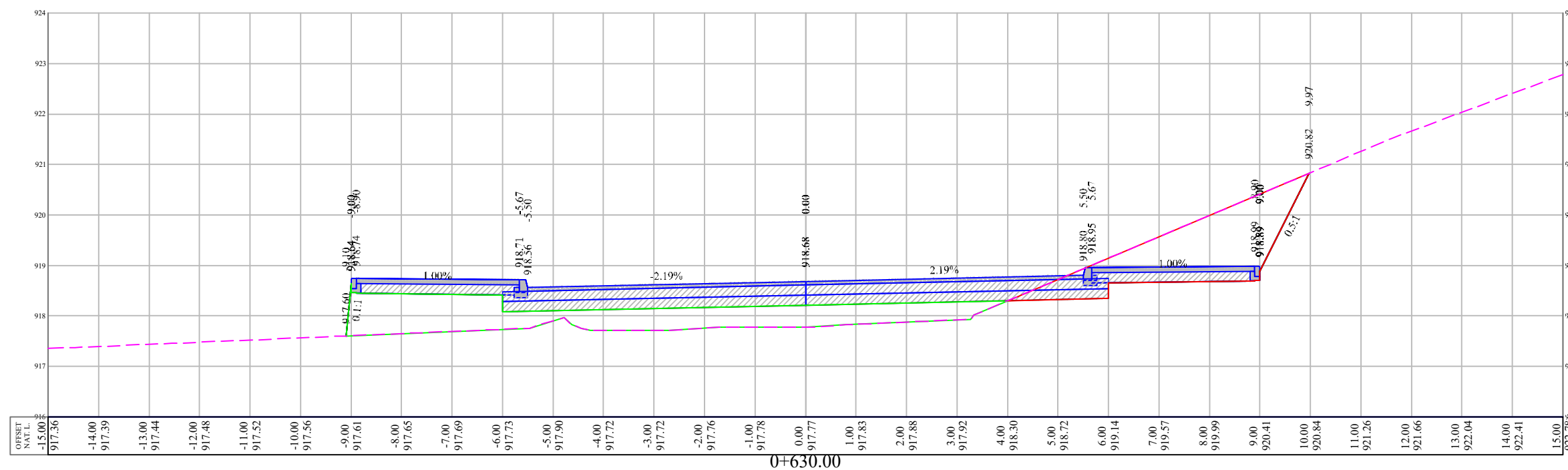
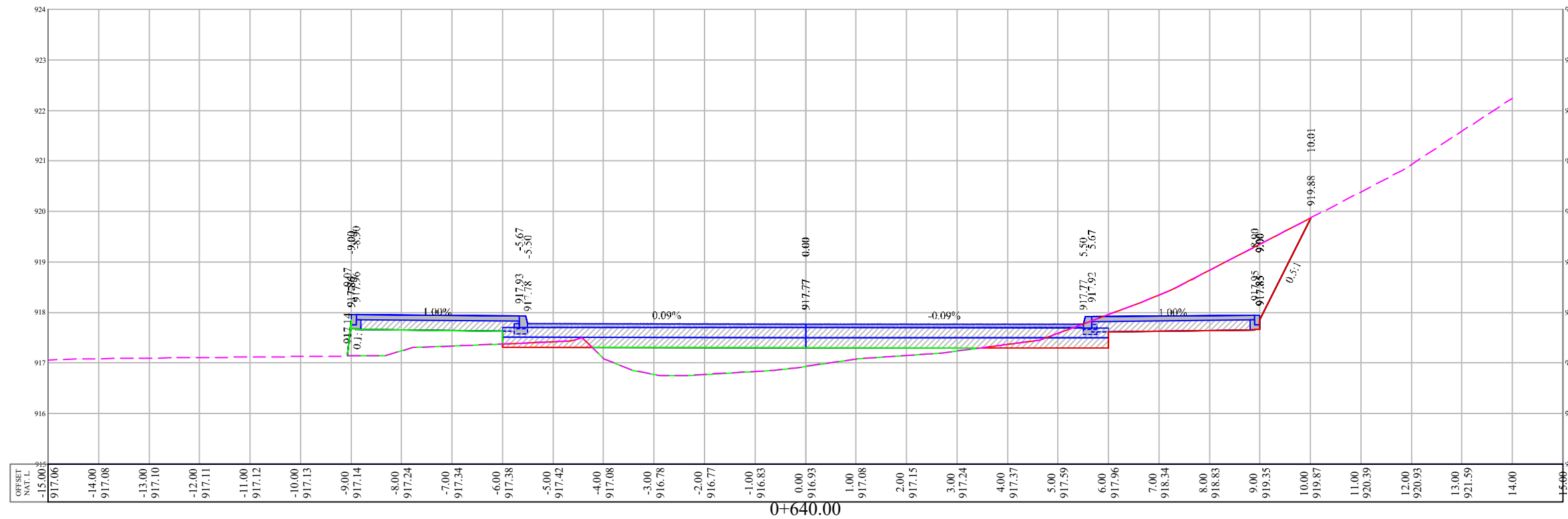


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-28

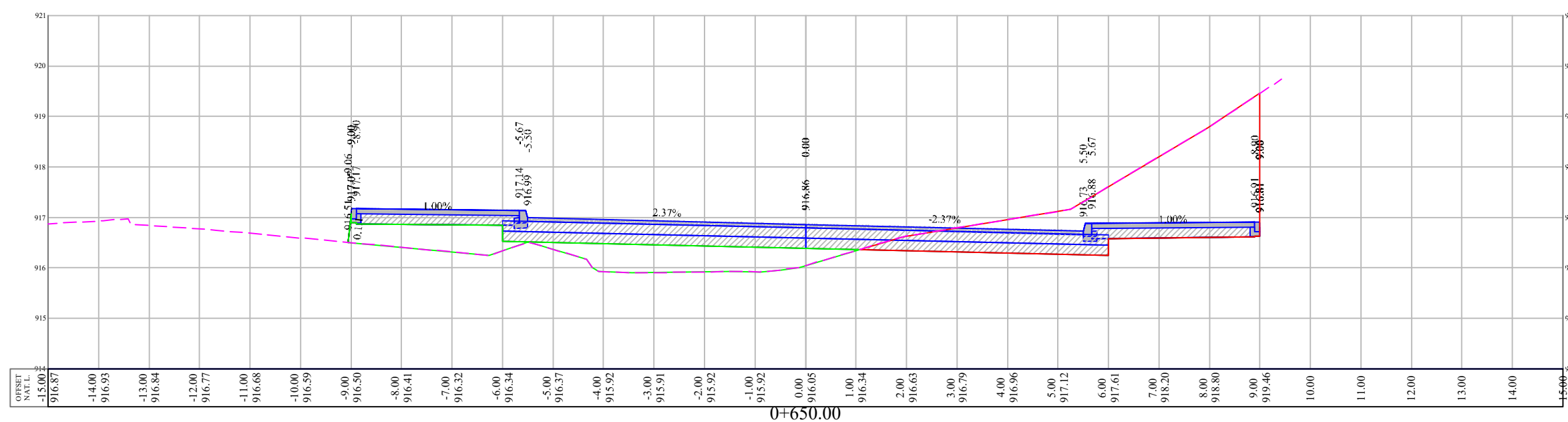
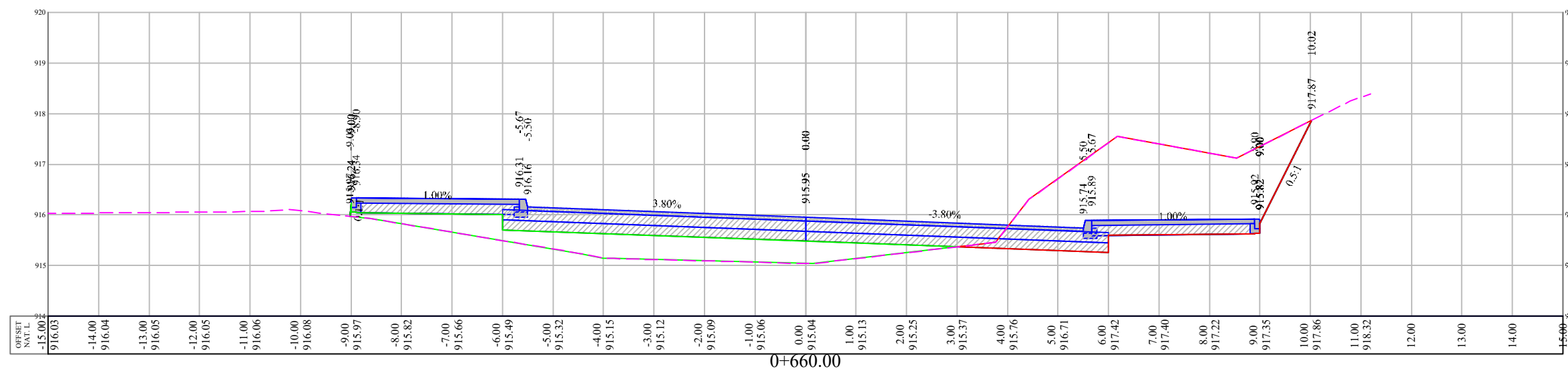
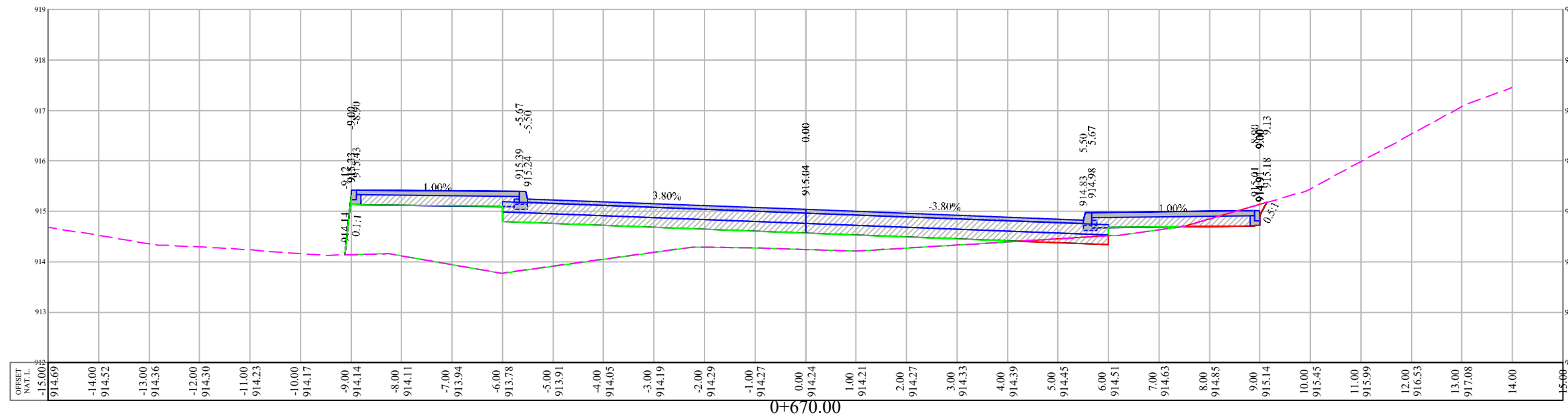


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-29

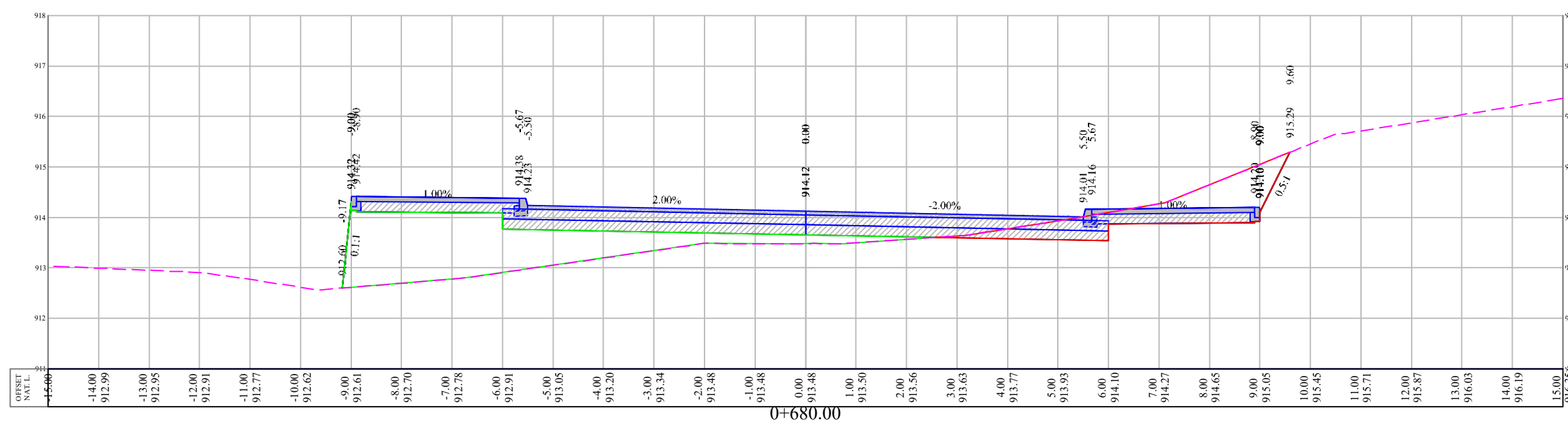
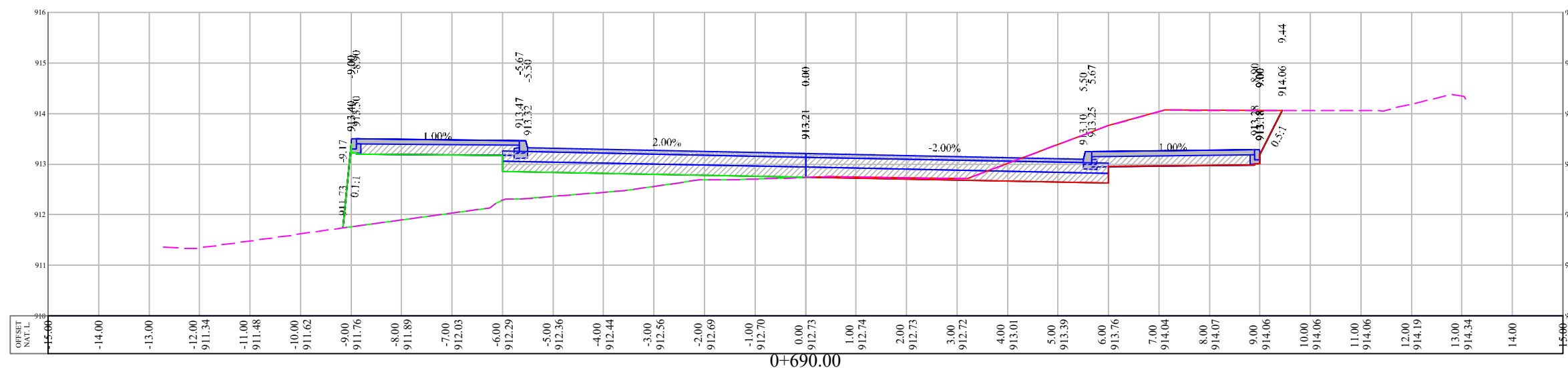
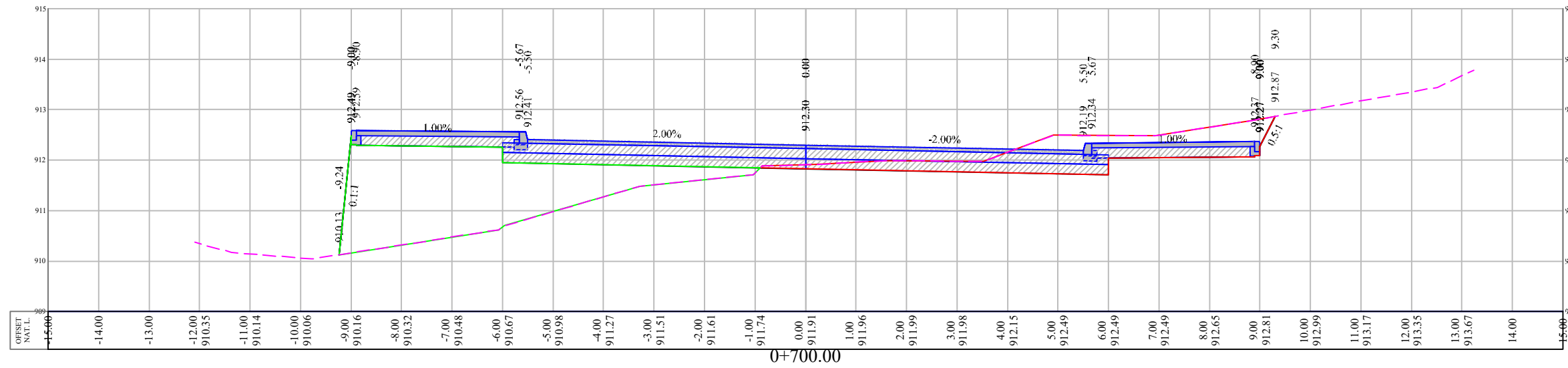


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**Design and Rehailitation
 Haska Road**

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TEAM work

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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-30

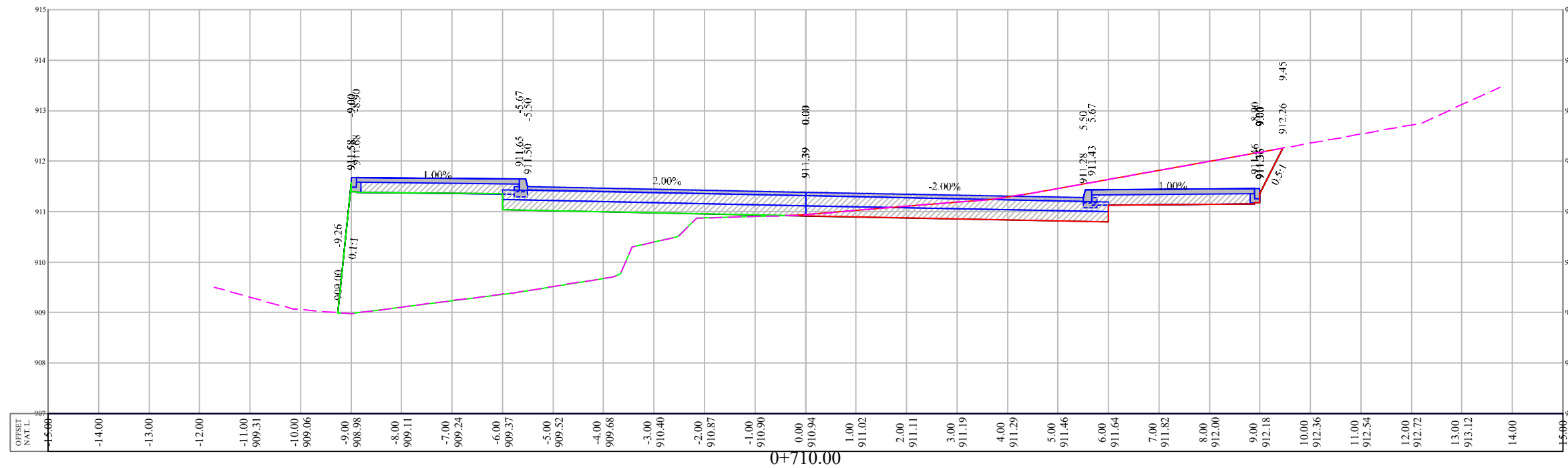
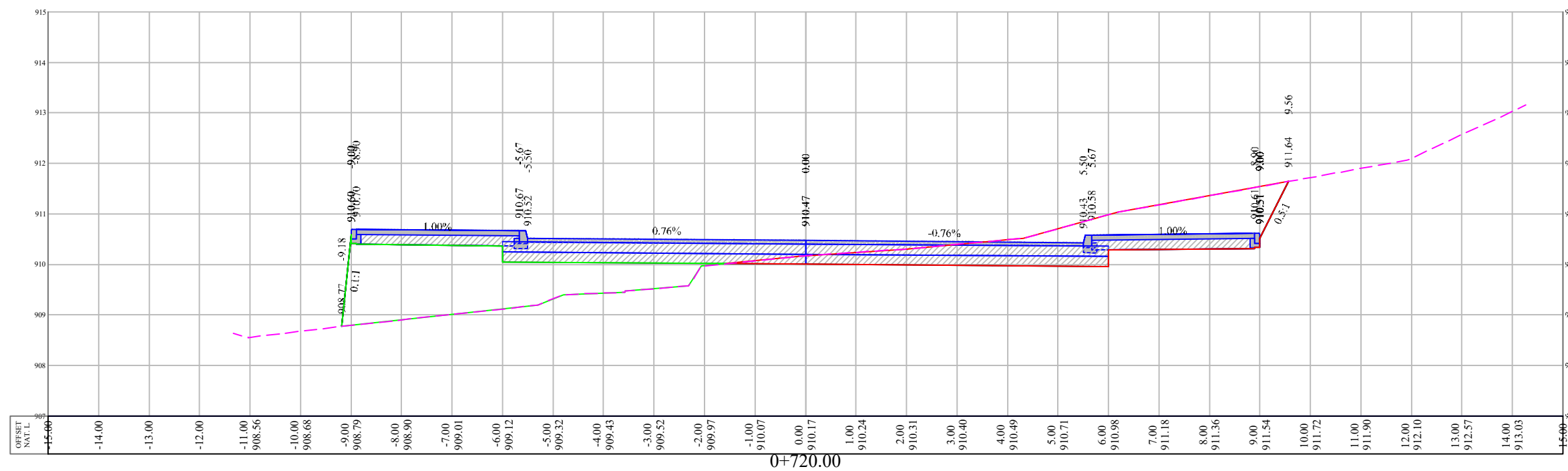
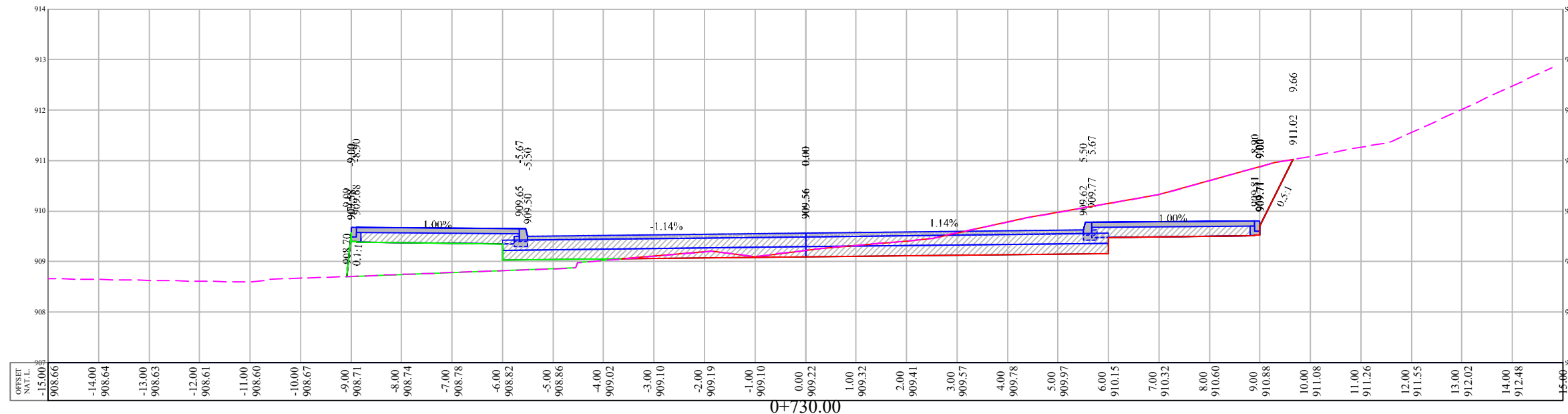


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Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-31

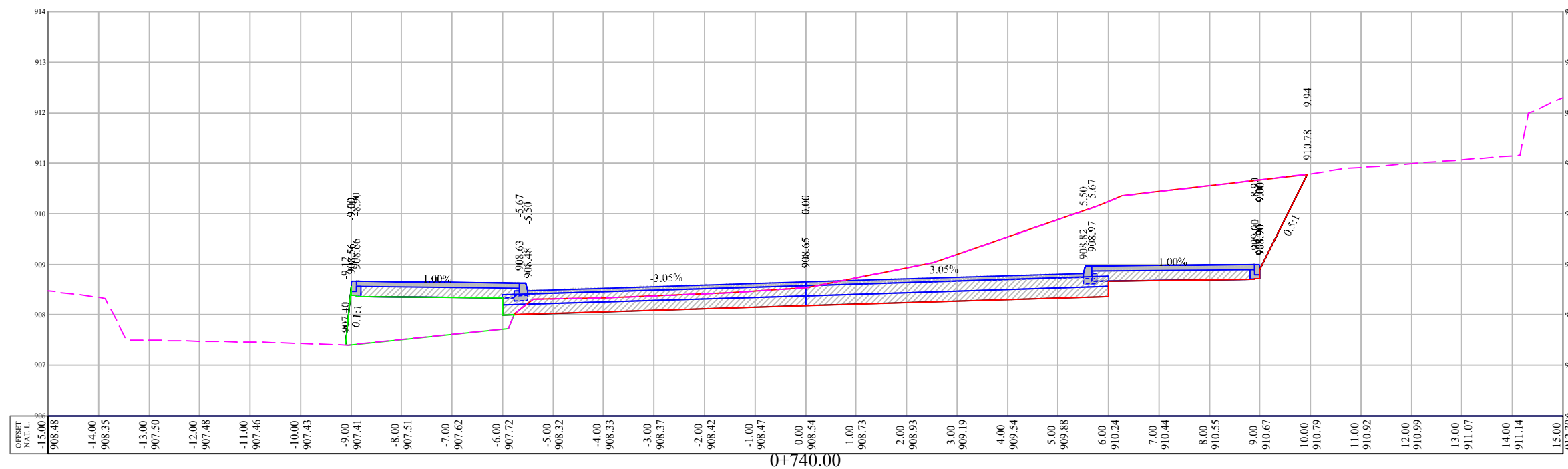
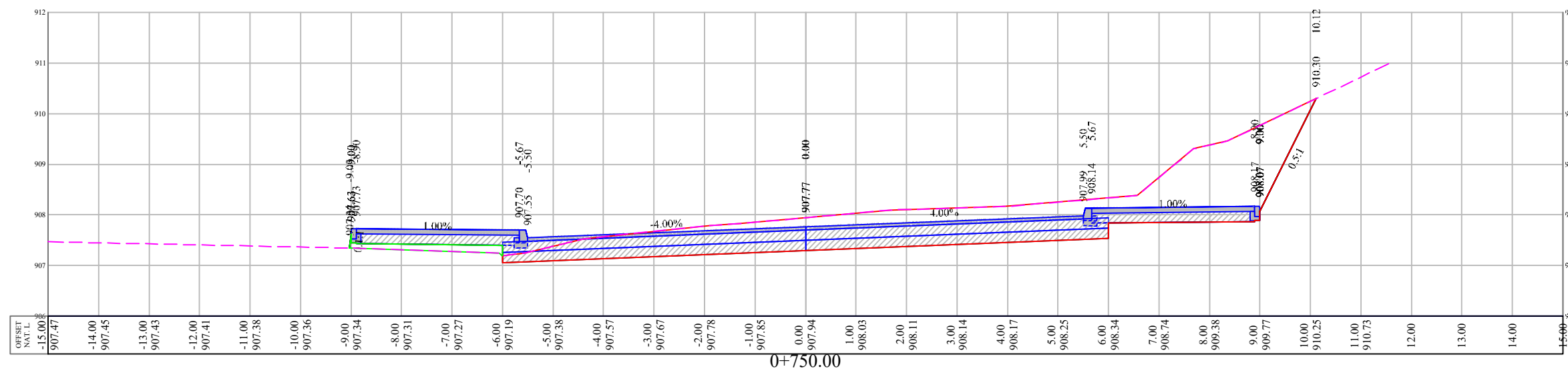
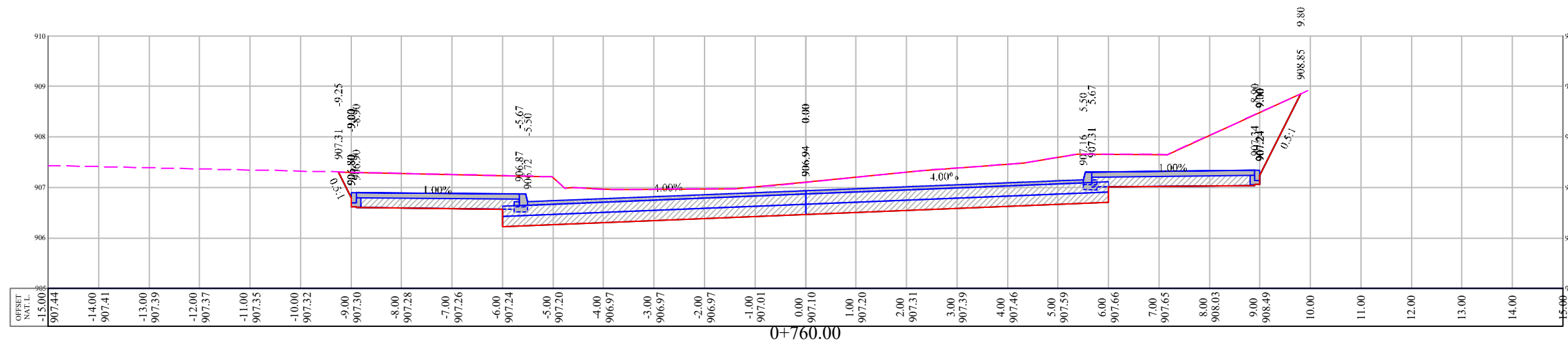


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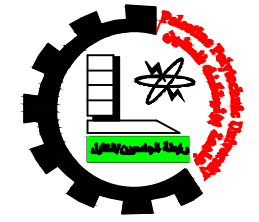
Anwar Shweiki
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Drawing Title

CROSS SECTION

Date January, 2024

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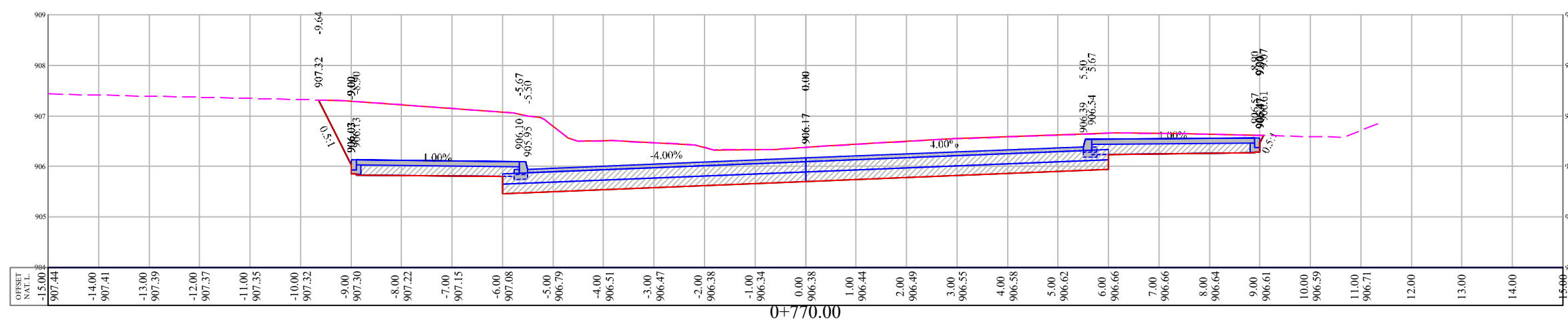
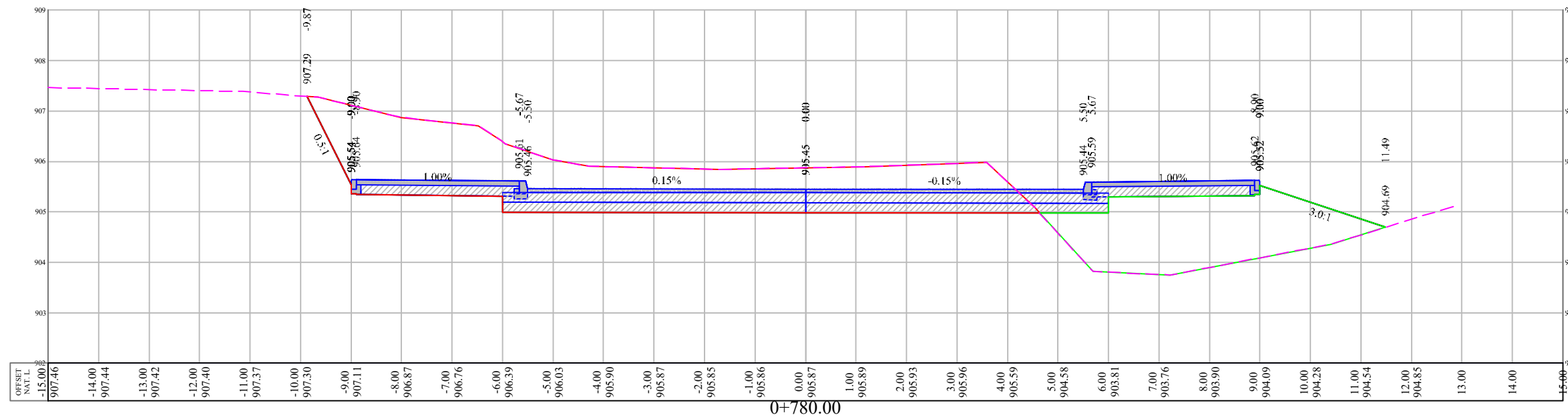
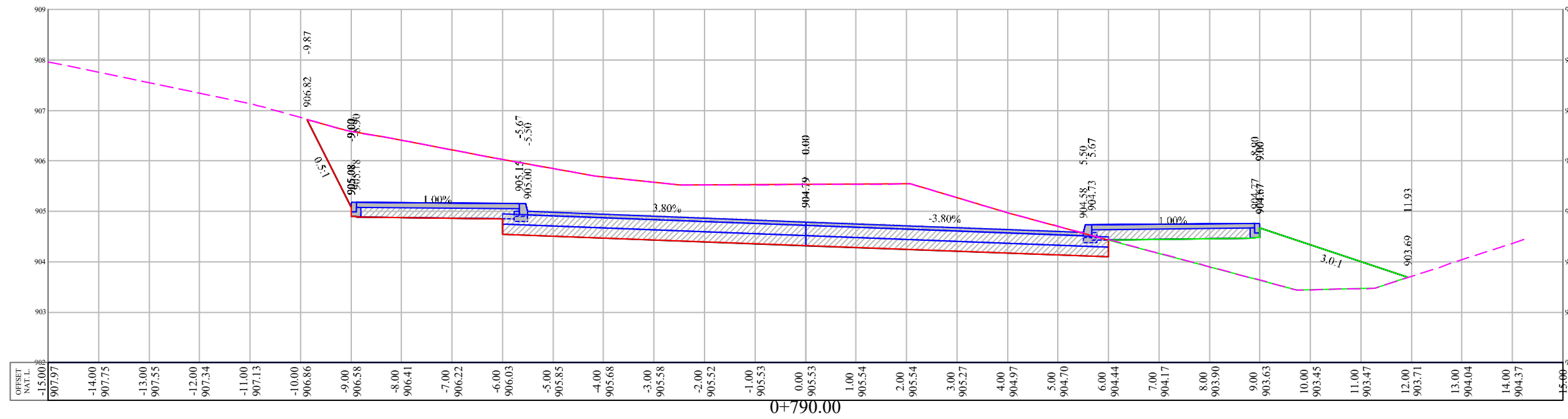


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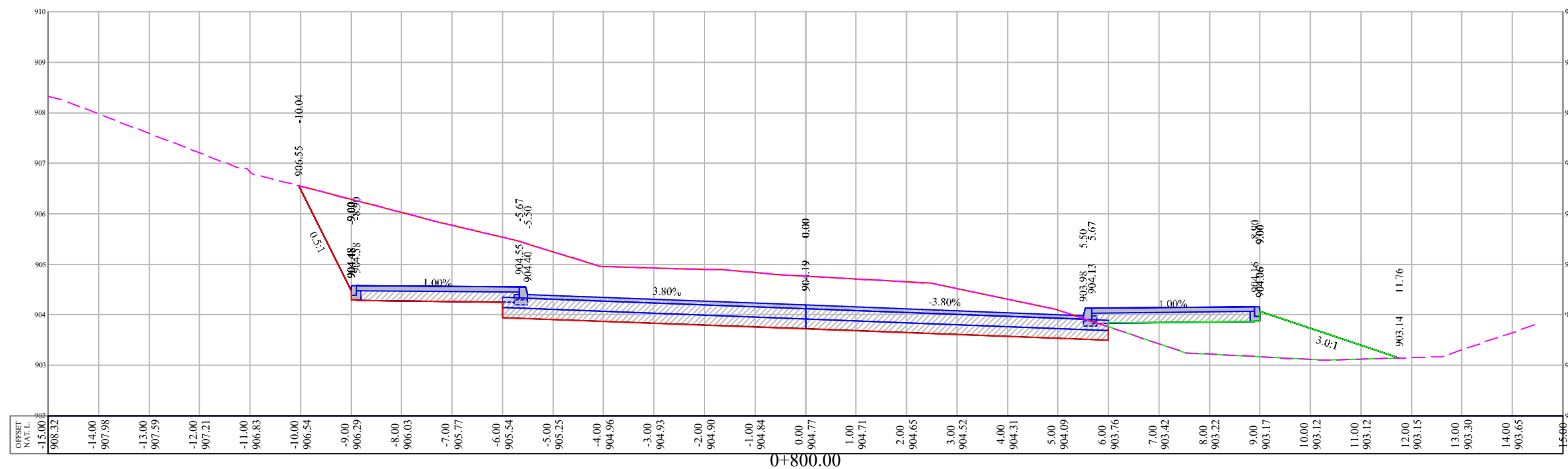
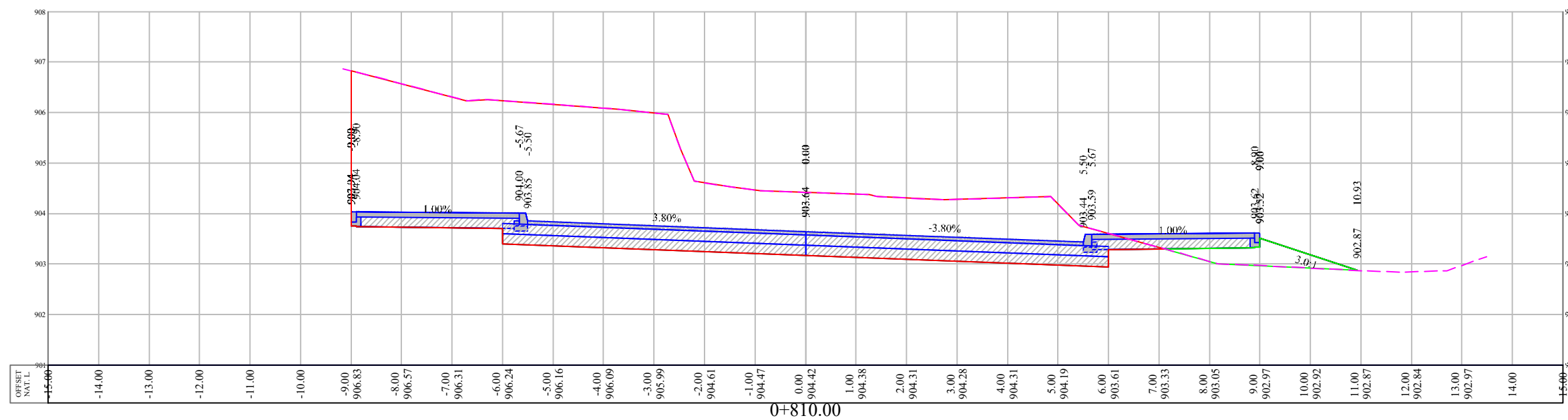
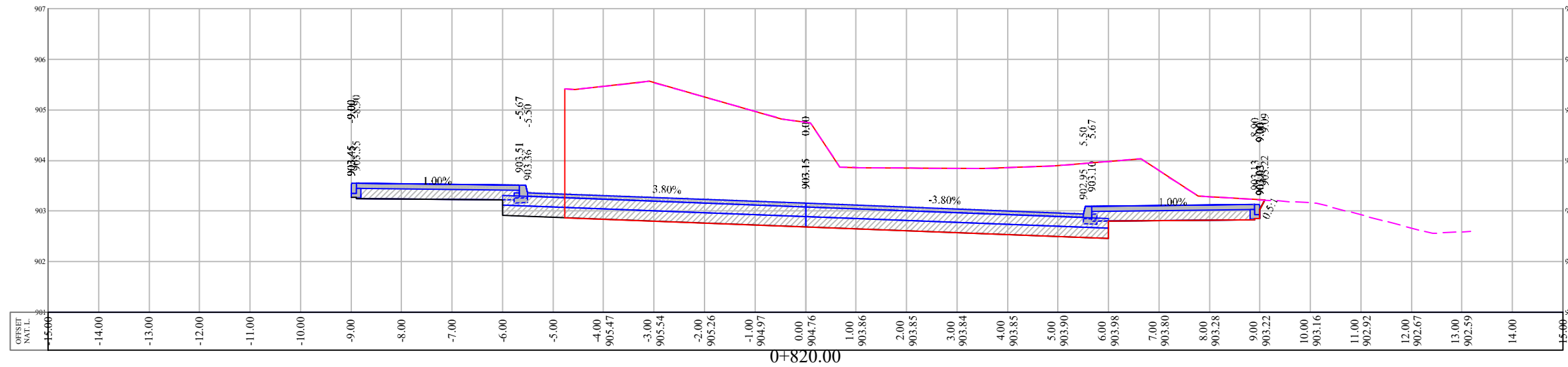


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5. ALL EXISTING TREE LOCATED IN CARRIAGE WAY TO BE RELOCATED.

LEGEND

- NATURAL GROUND LEVEL
- PROPOSED GROUND LEVEL
- SUB-GRADE LEVEL
- ASPHALT
- BASE COURSE
- CONCRETE SIDE WALK



Design and Rehalitation
 Haska Road

SUPERVISOR
 Eng. Musab Shahin

TEAM work

Anwar Shweiki
 Osaid Imar

Drawing Title

CROSS SECTION

Date January, 2024

Scale H 1:100 V 1:100 S-34

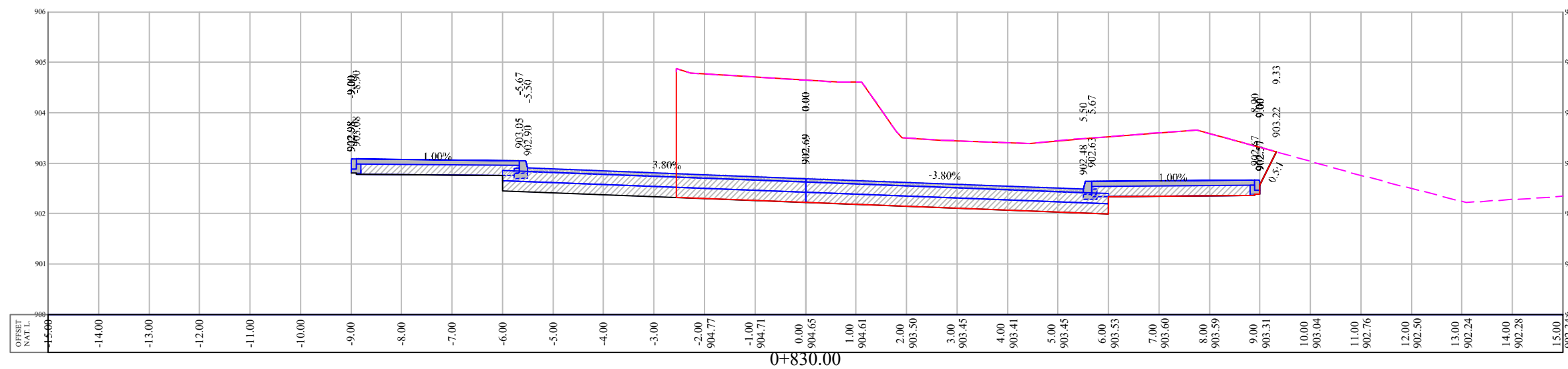
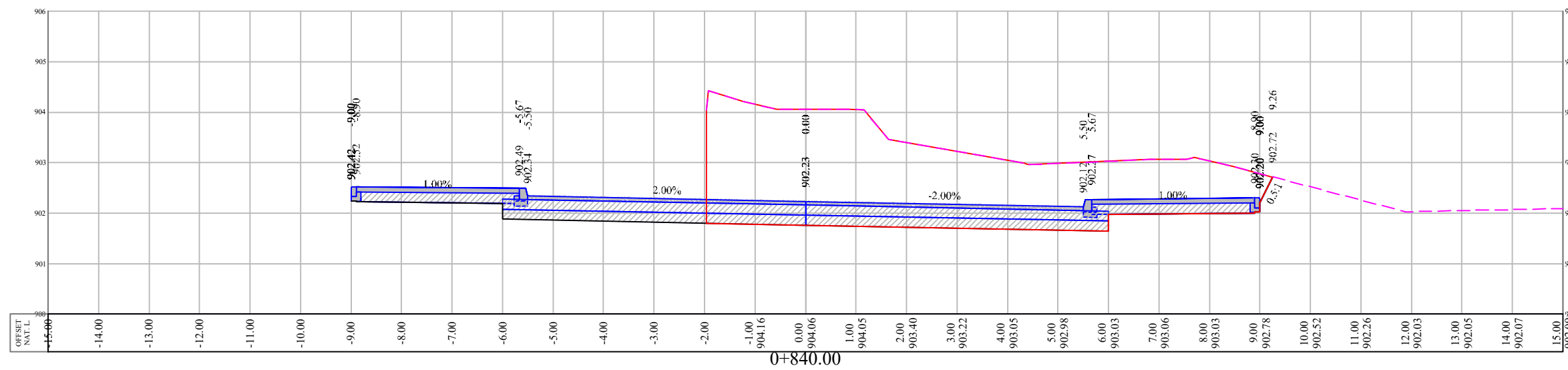
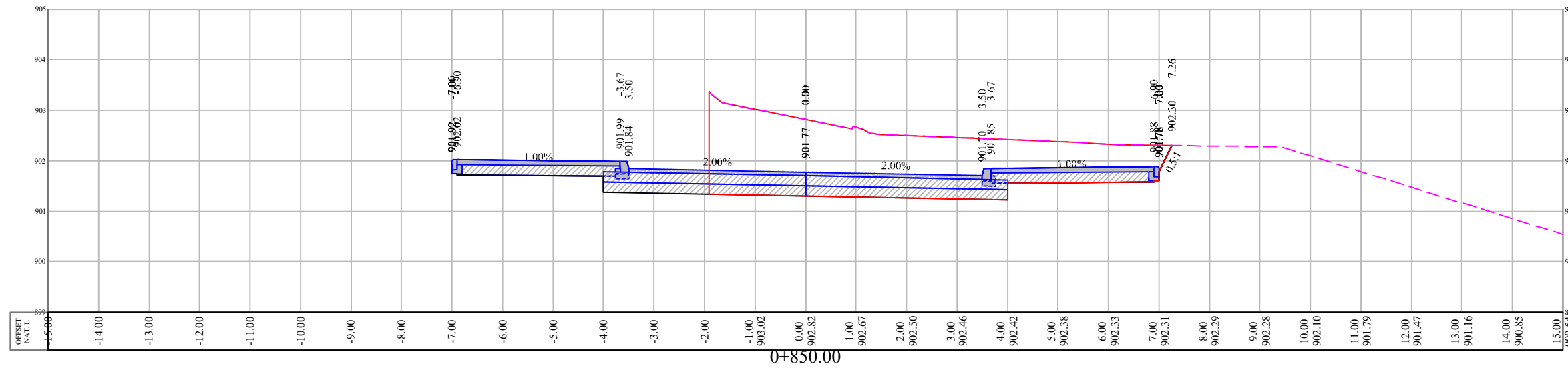


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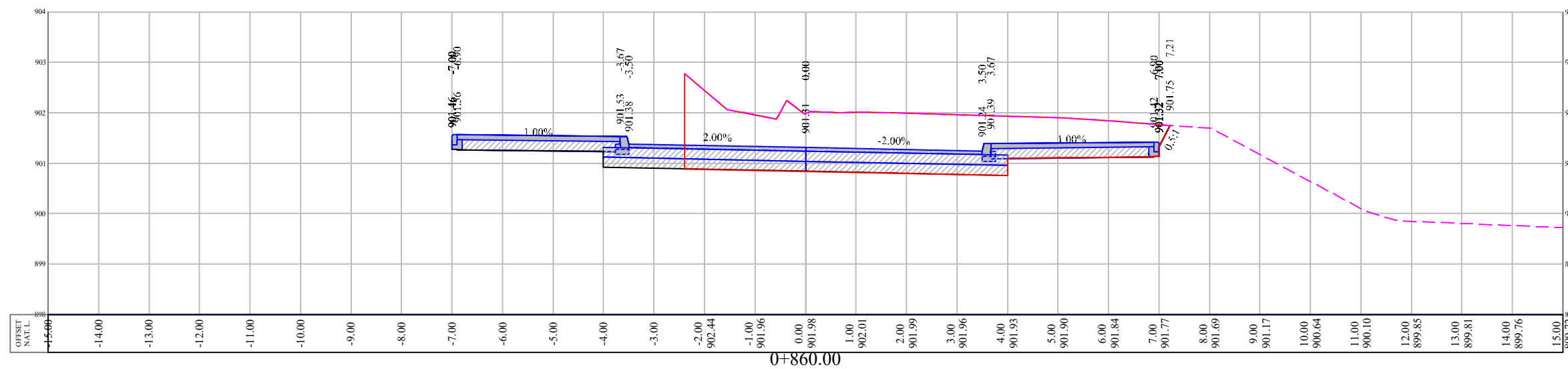
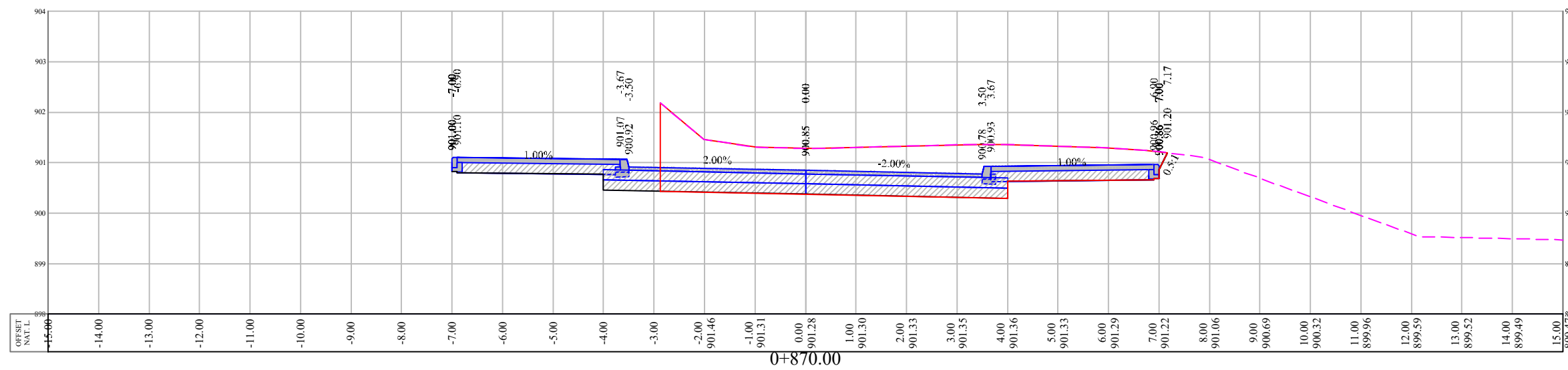
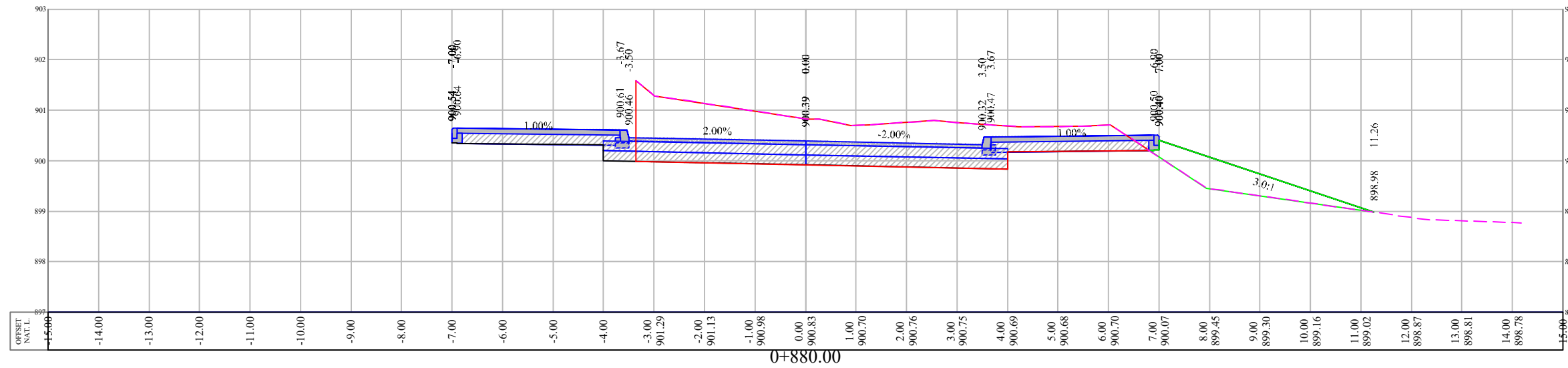


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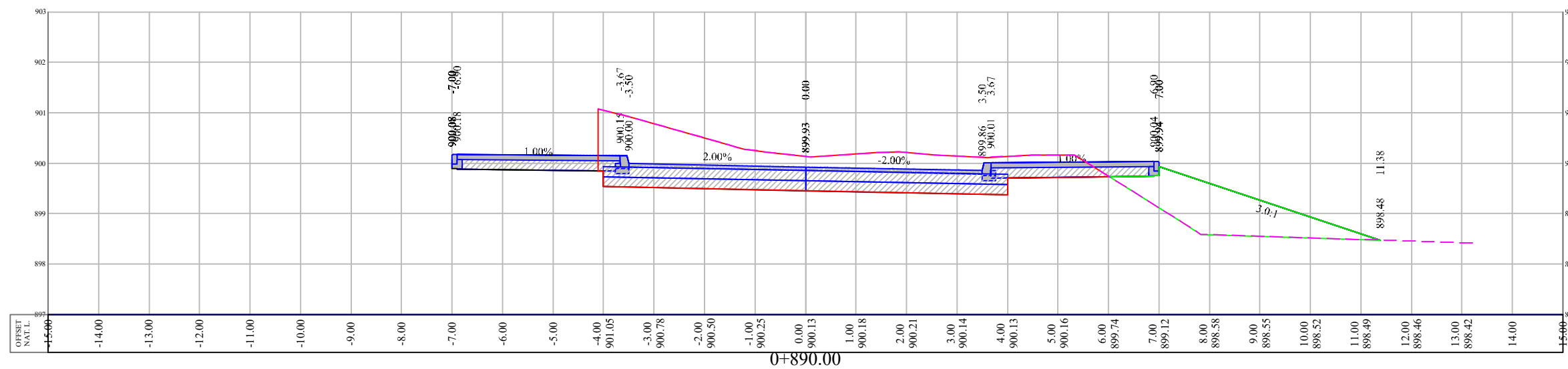
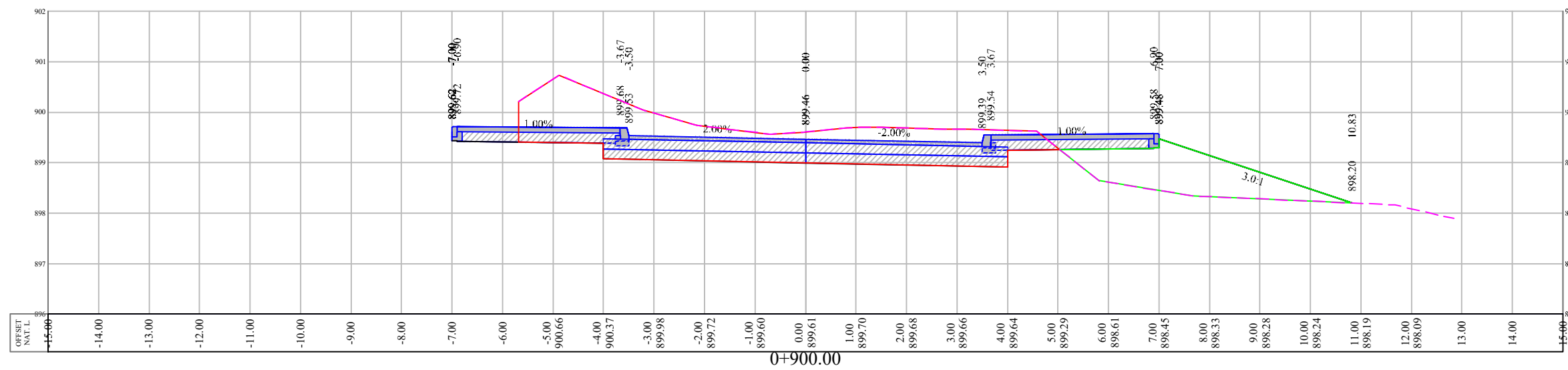
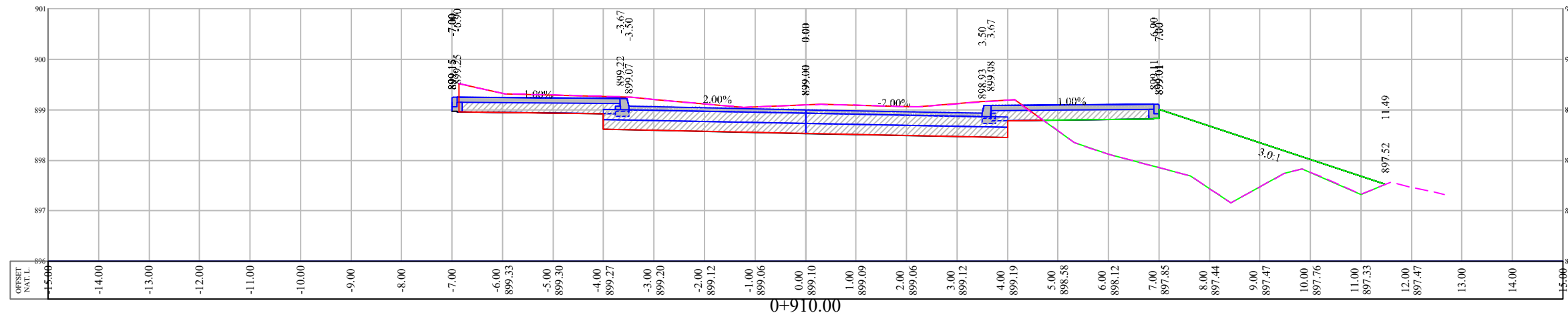


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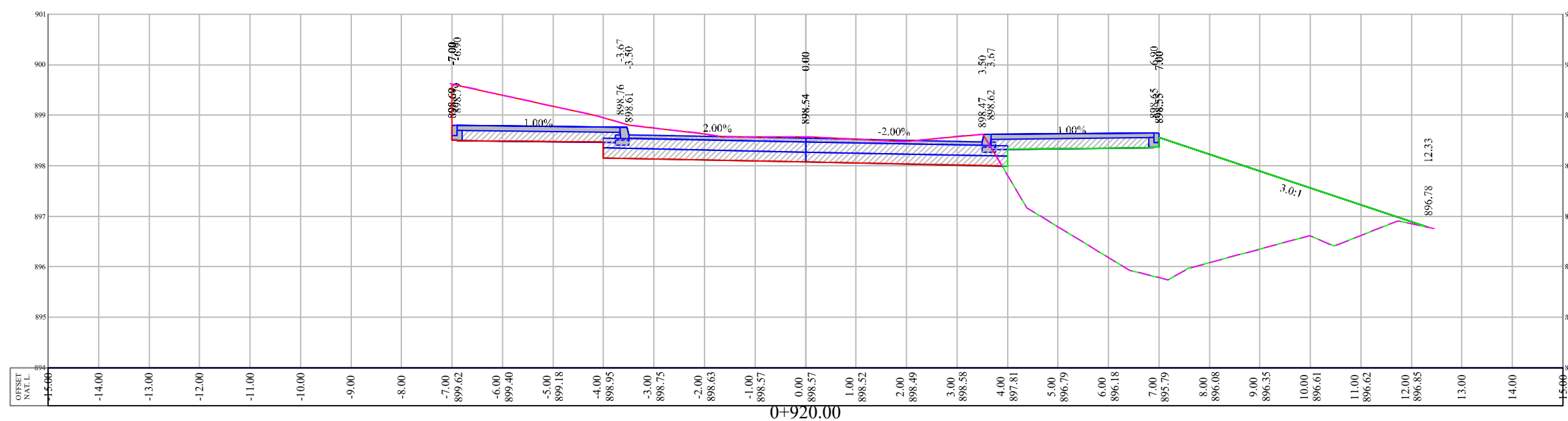
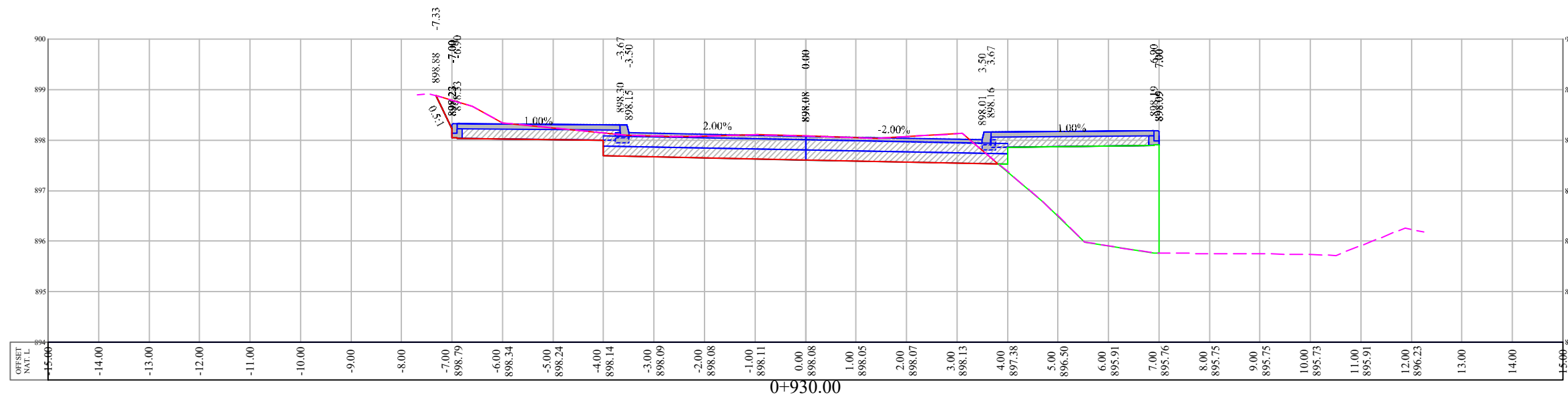


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