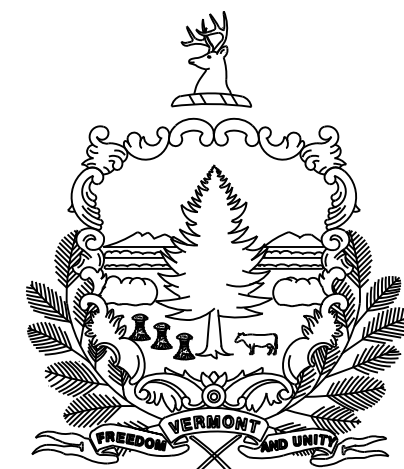


REVIEWER NOTES:

1. A 3 DAY BRIDGE CLOSURE PERIOD IS ANTICIPATED WITH A SIGNED DETOUR. ALTERNATING ONE-WAY TRAFFIC CONTROLLED WITH TEMPORARY SIGNALS IS ANTICIPATED BEFORE AND AFTER THE BRIDGE CLOSURE PERIOD.
2. UTILITY RELOCATION WILL BE REQUIRED.
3. ROW WILL BE NEEDED.

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF BUEL'S GORE

COUNTY OF CHITTENDEN

ROUTE : VT ROUTE 17      BRIDGE NO: 29

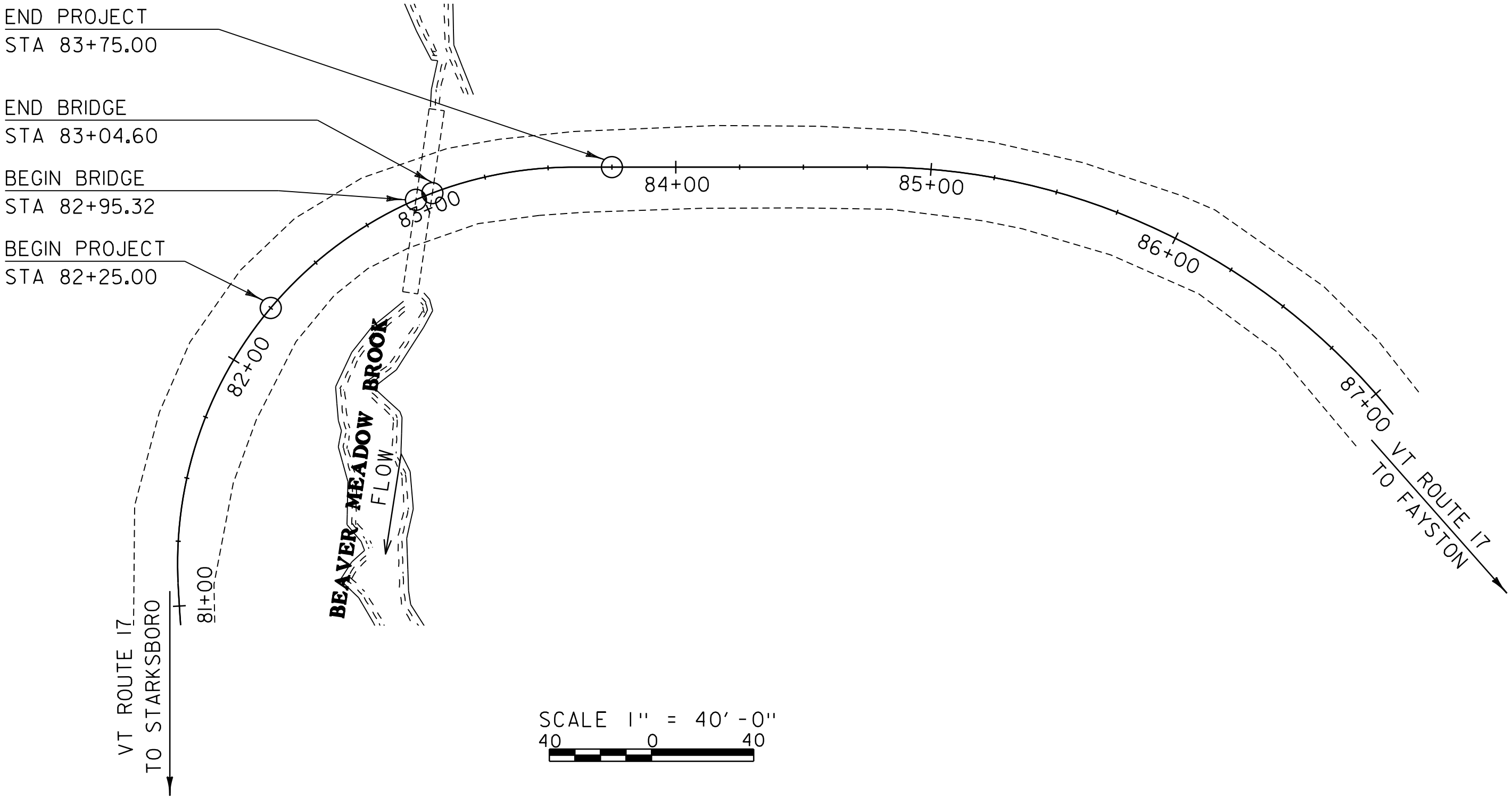
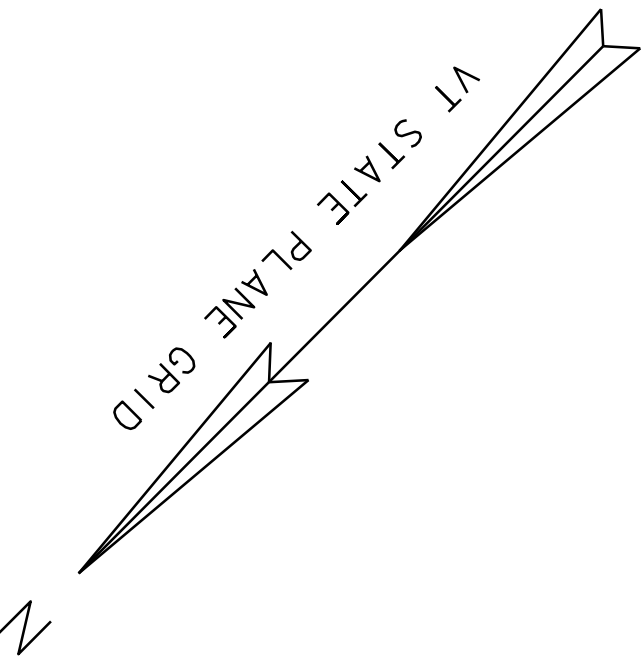
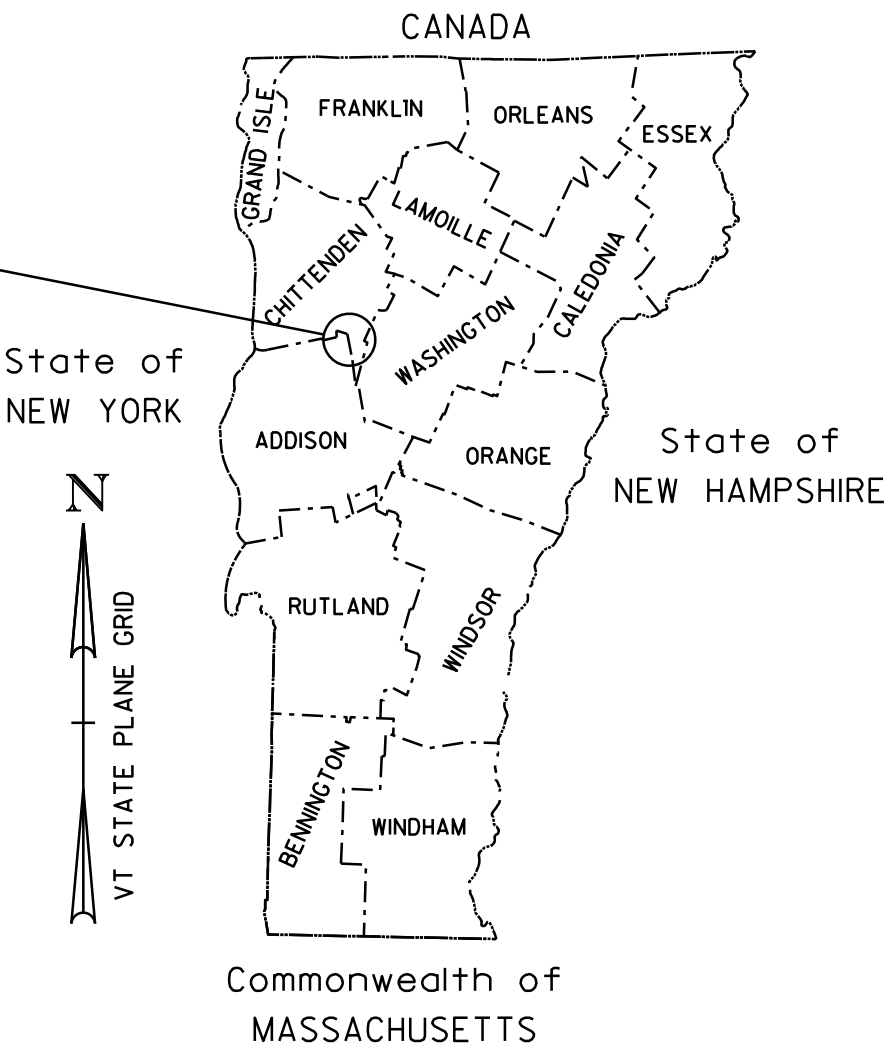
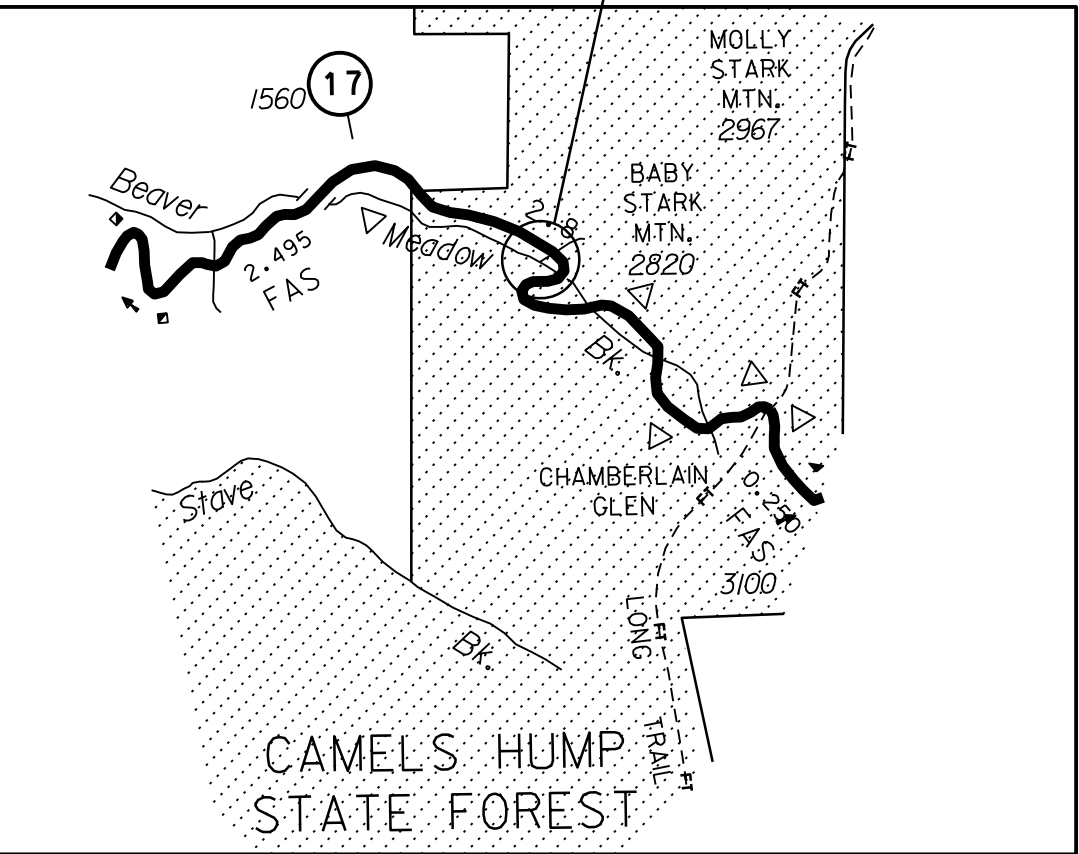
PROJECT LOCATION :      IN THE TOWN OF BUEL'S GORE APPROXIMATELY 7.2 MILES WEST OF THE INTERSECTION OF VT ROUTE 100 AND VT ROUTE 17.

PROJECT DESCRIPTION :      CULVERT REPLACEMENT WITH RELATED ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE:                      9.28 FEET

LENGTH OF ROADWAY:                      140.72 FEET

LENGTH OF PROJECT:                      150.00 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY :    VTRANS  
SURVEYED DATE : 5/19/2021

DATUM  
VERTICAL      NAVD 88  
HORIZONTAL    NAD-83 (2011)

CONCEPTUAL PLANS

20-APR-2023

HIGHWAY DIVISION, CHIEF ENGINEER

APPROVED \_\_\_\_\_, DATE \_\_\_\_\_

PROJECT MANAGER : R. KLINEFELTER

PROJECT NAME :    BUEL'S GORE

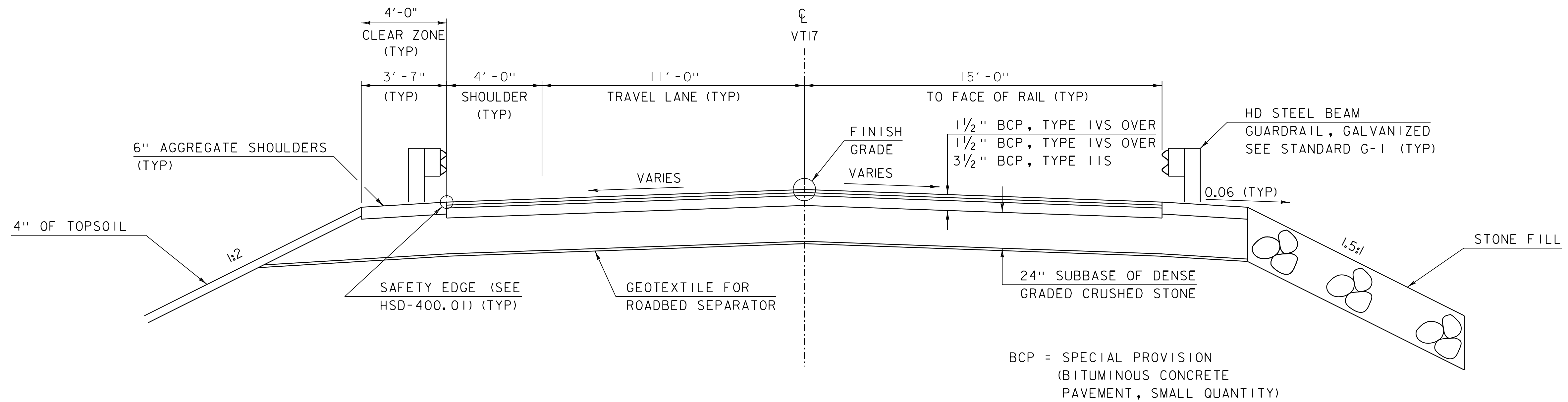
PROJECT NUMBER :  BF 0200 (11)

SHEET 1    OF 16    SHEETS

# PRELIMINARY INFORMATION SHEET (CULVERT)

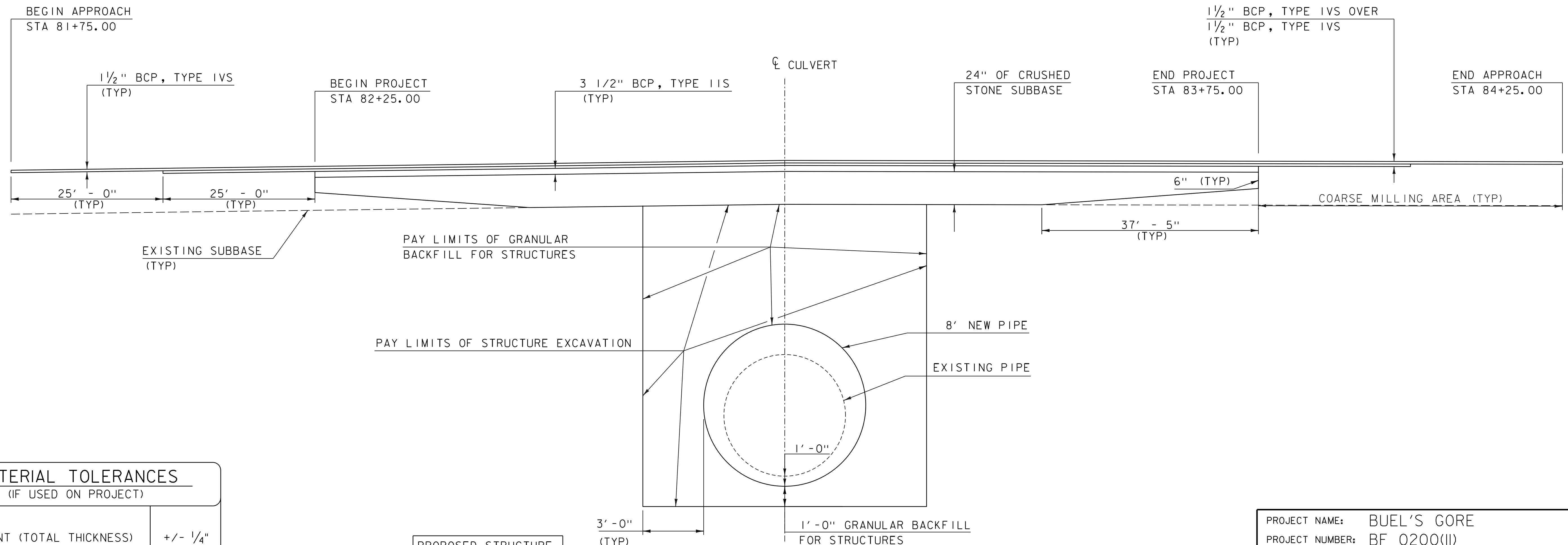
# LRFD

[illegible]



ROADWAY TYPICAL  
NOT TO SCALE

BINDER	70-28	PERFORMANCE GRADE ASPHALT BINDER
GYRATION	65	DESIGN NUMBER OF GYRATION



CULVERT TYPICAL SECTION  
NOT TO SCALE

MATERIAL TOLERANCES  
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROWS	+/- 1"

PROPOSED STRUCTURE	
DIAMETER	8' - 0"
LENGTH	70' - 0"

PROJECT NAME: BUEL'S GORE  
PROJECT NUMBER: BF 0200(II)

FILE NAME: s2lb027typ.dgn  
PROJECT LEADER: R. KLINEFELTER  
DESIGNED BY: HISALLS  
TYPICAL SECTIONS

PLOT DATE: 20-APR-2023  
DRAWN BY: HISALLS  
CHECKED BY: R. KLINEFELTER  
SHEET 3 OF 16

GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

R.O.W. ABBREVIATIONS (CODES) & SYMBOLS

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.& I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BDNS	BOUND SET
▣	BDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌘	APL	BOUND APPARENT LOCATION
▣	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⌘	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⌘	EL	ELECTRIC POWER POLE
⊙	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
⌘	GSO	GAS SHUT OFF
⊙	GUY	GUY POLE
⊙	GUYW	GUY WIRE
⌘	GV	GATE VALVE
⌘	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
⊙	IP	IRON PIN
⊙	IPIPE	IRON PIPE
⌘	LI	LIGHT - STREET OR YARD
⌘	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
⊙	PM	PARKING METER
▣	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
⌘	RRSIG	RAILROAD SIGNAL
⌘	RRSL	RAILROAD SWITCH LEVER
⌘	S	TREE SOFTWOOD
⌘	SAT	SATELLITE DISH
⌘	SHRUB	SHRUB
⌘	SIGN	SIGN
⌘	STUMP	STUMP
⌘	TEL	TELEPHONE POLE
⊙	TIE	TIE
⌘	TSIGN	SIGN W/DOUBLE POST
⌘	VCTRL	CONTROL VERTICAL
⊙	WELL	WELL
⌘	WSO	WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLOLOGY

UNDERGROUND UTILITIES

— UGU —	— · · · · · —	UTILITY (GENERIC-UNKNOWN)
— UT —	— · · · · · —	TELEPHONE
— UE —	— · · · · · —	ELECTRIC
— UC —	— · · · · · —	CABLE (TV)
— UEC —	— · · · · · —	ELECTRIC+CABLE
— UET —	— · · · · · —	ELECTRIC+TELEPHONE
— UCT —	— · · · · · —	CABLE+TELEPHONE
— UECT —	— · · · · · —	ELECTRIC+CABLE+TELEPHONE
— G —	— · · · · · —	GAS LINE
— W —	— · · · · · —	WATER LINE
— S —	— · · · · · —	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	— · · · · · —	UTILITY (GENERIC-UNKNOWN)
— T —	— · · · · · —	TELEPHONE
— E —	— · · · · · —	ELECTRIC
— C —	— · · · · · —	CABLE (TV)
— EC —	— · · · · · —	ELECTRIC+CABLE
— ET —	— · · · · · —	ELECTRIC+TELEPHONE
— AER E&T —	— · · · · · —	ELECTRIC+TELEPHONE
— CT —	— · · · · · —	CABLE+TELEPHONE
— ECT —	— · · · · · —	ELECTRIC+CABLE+TELEPHONE
— · · —	— · · · · · —	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOLOGY

— · · —	— CZ —	— · · —	CLEAR ZONE
—————			PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△	△	△	△	TOP OF CUT SLOPE
○	○	○	○	TOE OF FILL SLOPE
⊗	⊗	⊗	⊗	STONE FILL
-----				BOTTOM OF DITCH
=====				CULVERT PROPOSED
-----				STRUCTURE SUBSURFACE
PDF	PDF			PROJECT DEMARCATION FENCE
BF	BF			BARRIER FENCE
xxxxxxxxxxxxxxxxxxxx				TREE PROTECTION ZONE (TPZ)
//////////				STRIPING LINE REMOVAL
~~~~~				SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOLOGY

BOUNDARY LINES

—————	TOWN LINE	—————	TOWN BOUNDARY LINE
—————	COUNTY LINE	—————	COUNTY BOUNDARY LINE
—————	STATE LINE	—————	STATE BOUNDARY LINE
———/———		———/———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
———/———		———/———	PROPOSED STATE R.O.W.
———/———		———/———	STATE ROW (LIMITED ACCESS)
———/———		———/———	STATE ROW
———/———		———/———	TOWN ROW
— · · —		— · · —	PERMANENT EASEMENT LINE (P)
— · · —		— · · —	TEMPORARY EASEMENT LINE (T)
— · · —		— · · —	SURVEY LINE
— P —		— P —	PROPERTY LINE (P/L)
— L —		— L —	
△ SR		△ SR	SLOPE RIGHTS
6f		6f	6F PROPERTY BOUNDARY
4f		4f	4F PROPERTY BOUNDARY
HAZ		HAZ	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOLOGY

EPSC MEASURES

ONNOONNOONNO	FILTER CURTAIN
▣	SILT FENCE
▣	SILT FENCE WOVEN WIRE
▣	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOLOGY

ENVIRONMENTAL RESOURCES

▣	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
— T&E —	THREATENED & ENDANGERED SPECIES
HAZ	HAZARDOUS WASTE AREA
— AG —	AGRICULTURAL LAND
— HABITAT —	FISH & WILDLIFE HABITAT
— FLOOD PLAIN —	FLOOD PLAIN
— OHW —	ORDINARY HIGH WATER (OHW)
— · · —	STORM WATER
— · · —	USDA FOREST SERVICE LANDS
— · · —	WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOLOGY

EXISTING FEATURES

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
× — × — × — × —	FENCE (EXISTING)
▣ — ▣ — ▣ — ▣ —	FENCE WOOD POST
○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~~	GARDEN
○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○○○○○○○○○○○○○○○○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
=====	BODY OF WATER EDGE
=====	LEDGE EXPOSED

PROJECT NAME:	BUEL'S GORE
PROJECT NUMBER:	BF 0200(II)
FILE NAME: s2lb027forms.dgn	PLOT DATE: 20-APR-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: H SALLS
DESIGNED BY: H SALLS	CHECKED BY: R. KLINEFELTER
SYMBOLOLOGY LEGEND	SHEET 4 OF 16

PRIMARY CONTROL

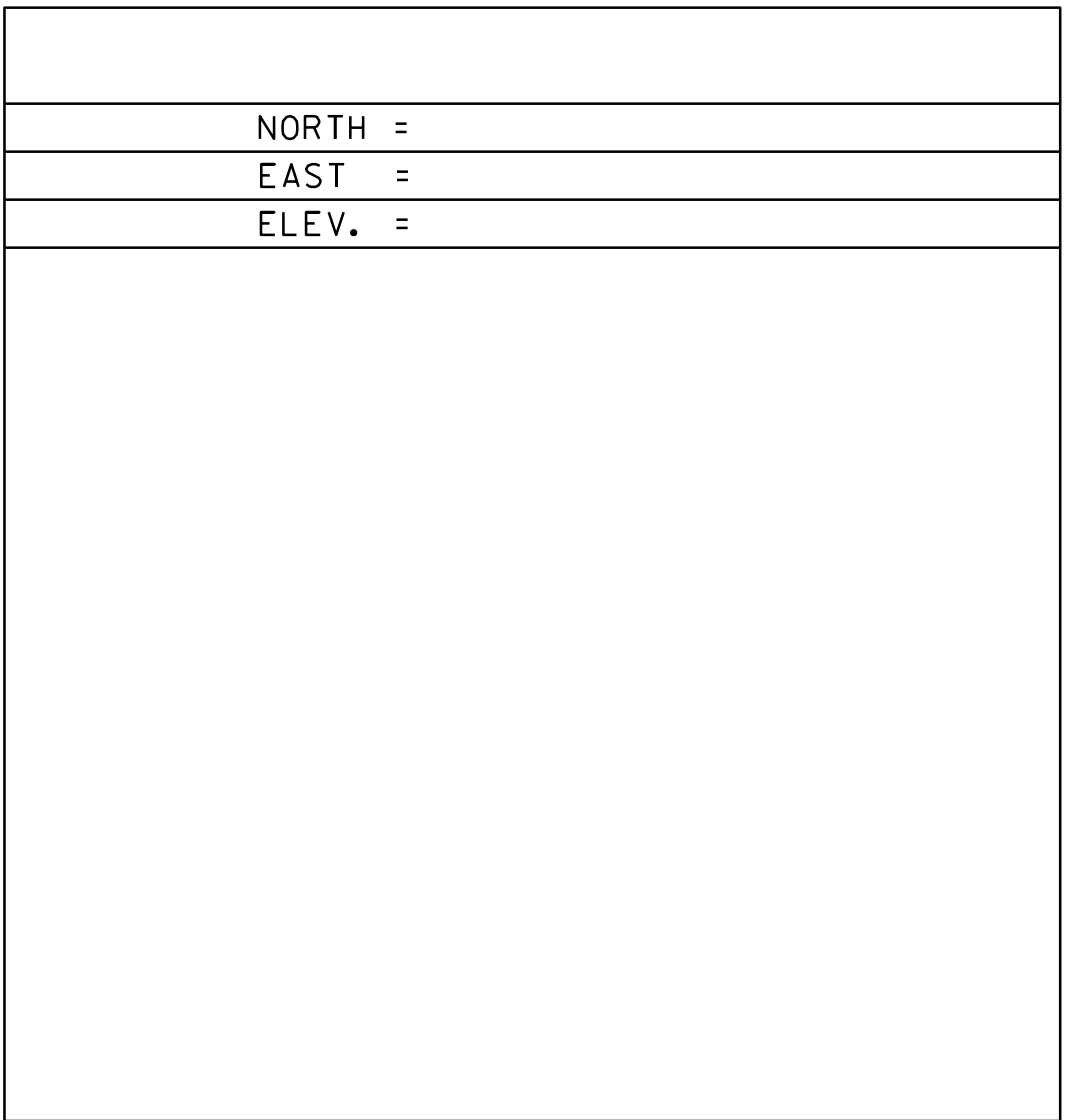
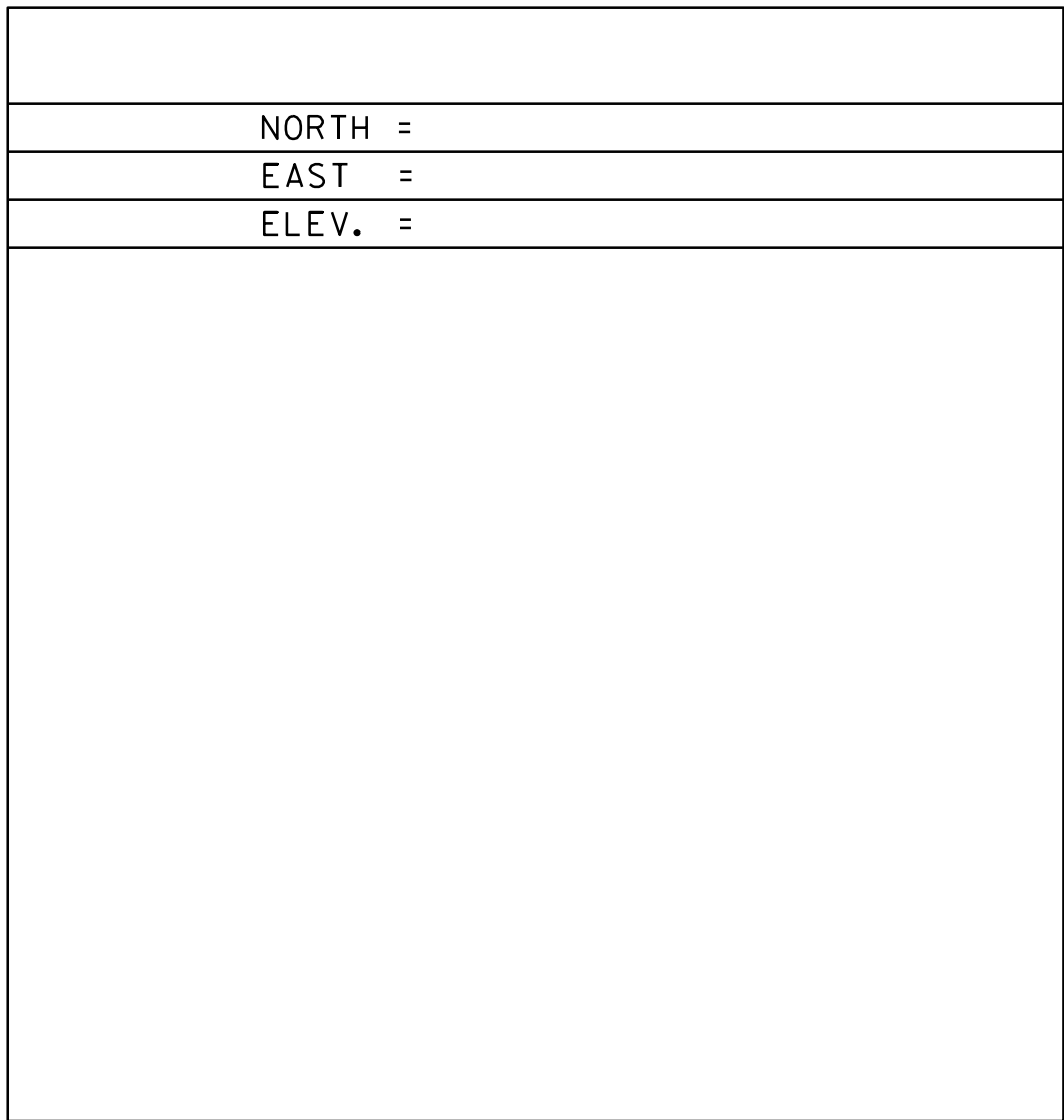
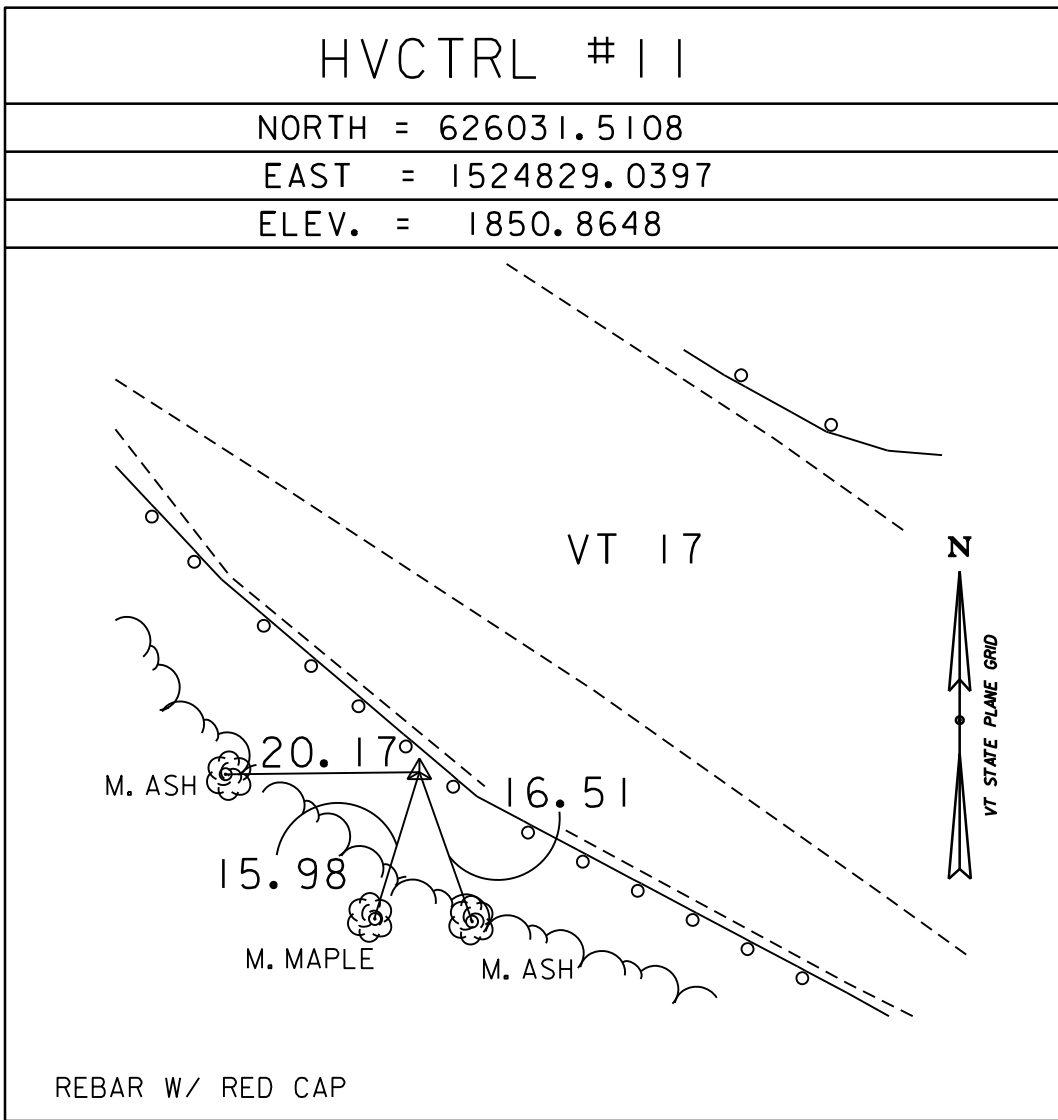
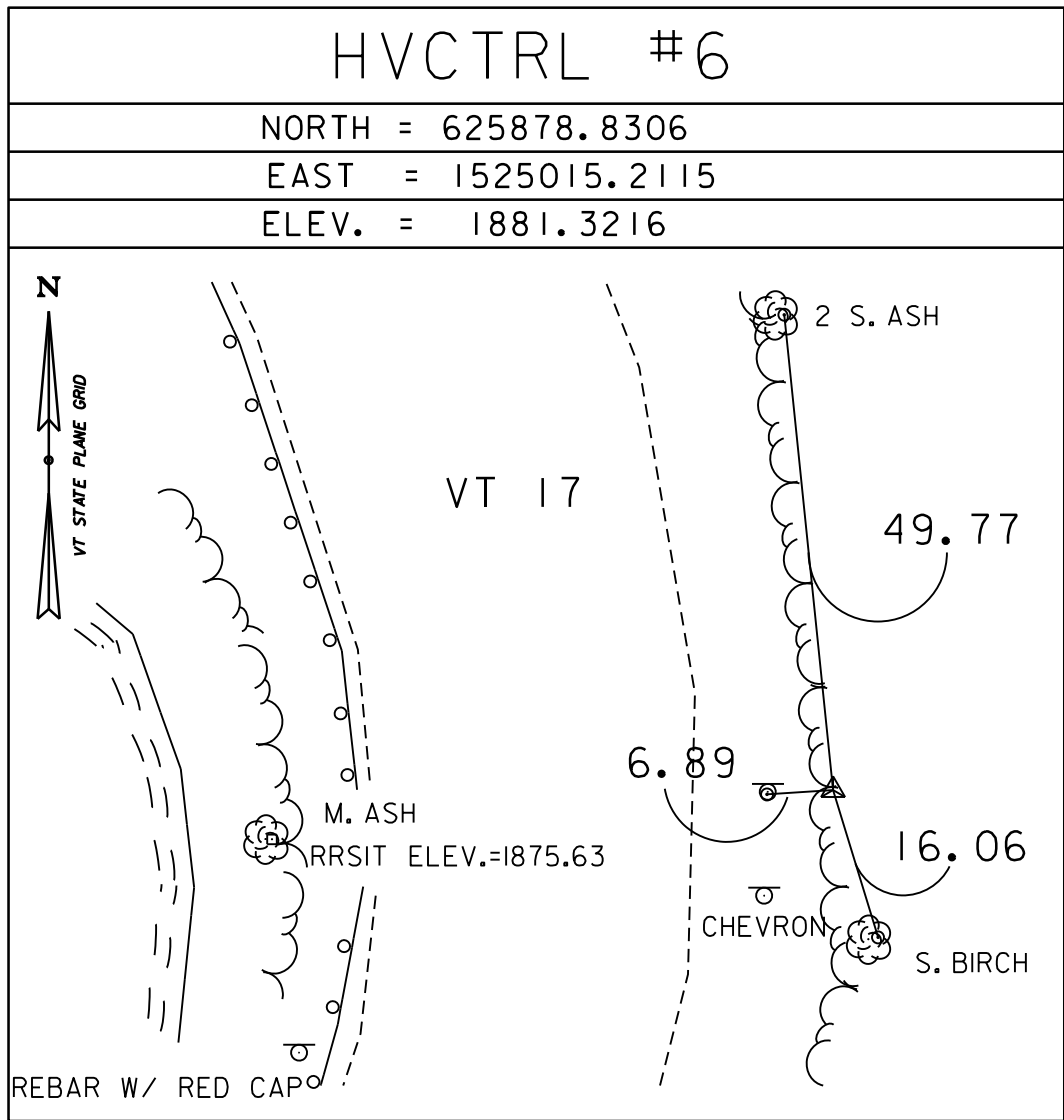
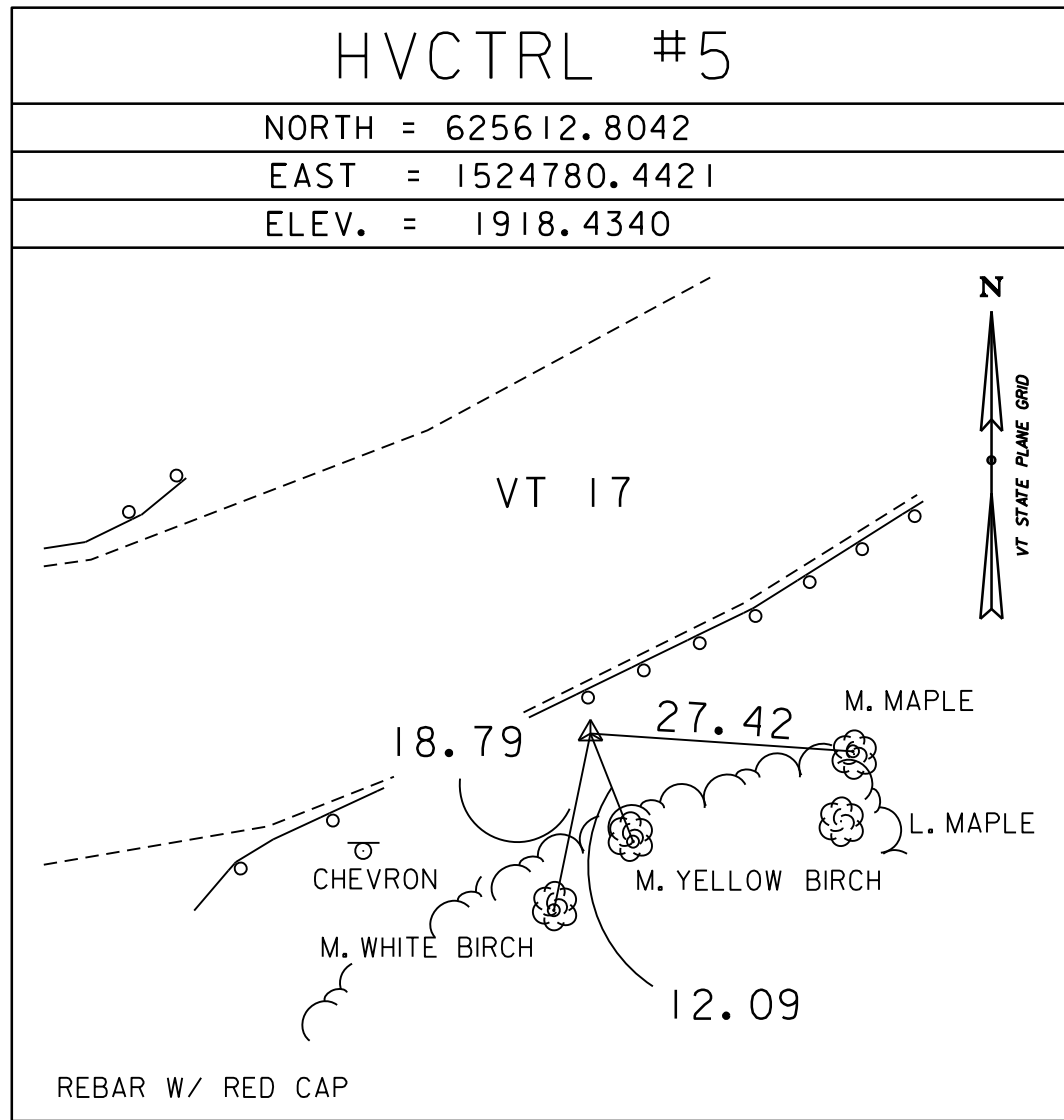
HVCTRL #1  
NORTH = 623967.1770  
EAST = 1527236.1240  
ELEV. = 2359.6800

BUELS GORE, VT  
TO REACH FROM THE INTERSECTION OF VT 17 AND VT 116 IN BRISTOL GO EAST ON VT17 9.8 MILES TO THE MARK ON THE LEFT. TO REACH FROM THE INTERSECTION OF VT 17 AND VT 100 IN IRASVILLE GO WEST ON VT 17 FOR 6.3 MILE TO THE MARK ON THE RIGHT. THE MARK IS A REBAR WITH A RED CAP. IT IS AT THE WEST END OF A LARGE PARKING LOT AT THE TOP OF VT 17 (AKA MCCULLOUGH TURNPIKE) IT IS 35.0' WEST AND ABOUT LEVEL WITH VT 17.6.0' WEST OF THE STEEL GUARD RAIL. 49.0' NORTH OF A SIGN TRUCKS USE LOWER GEARS.

HVCTRL #2  
NORTH = 624402.7500  
EAST = 1526089.3790  
ELEV. = 2152.0300

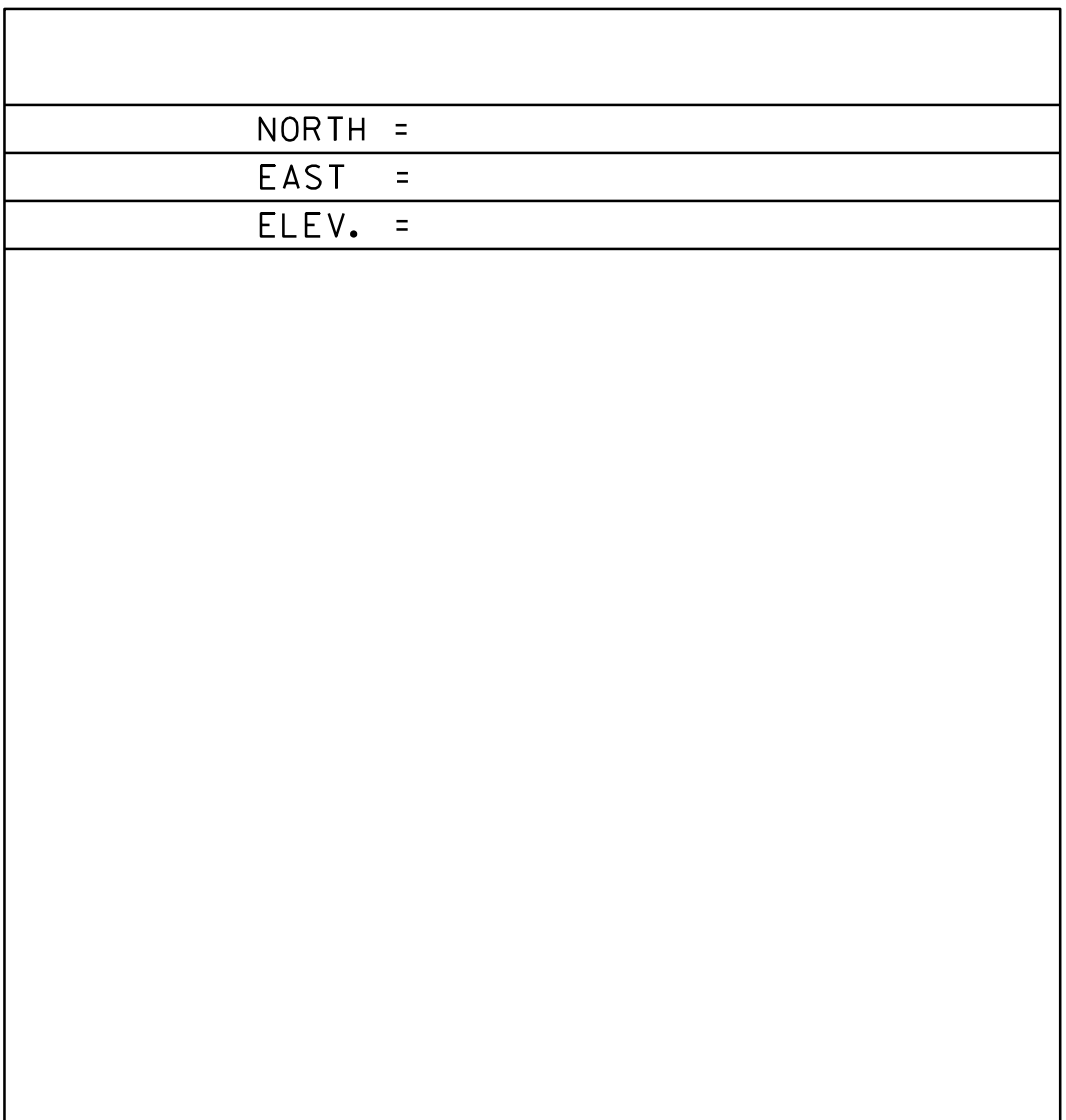
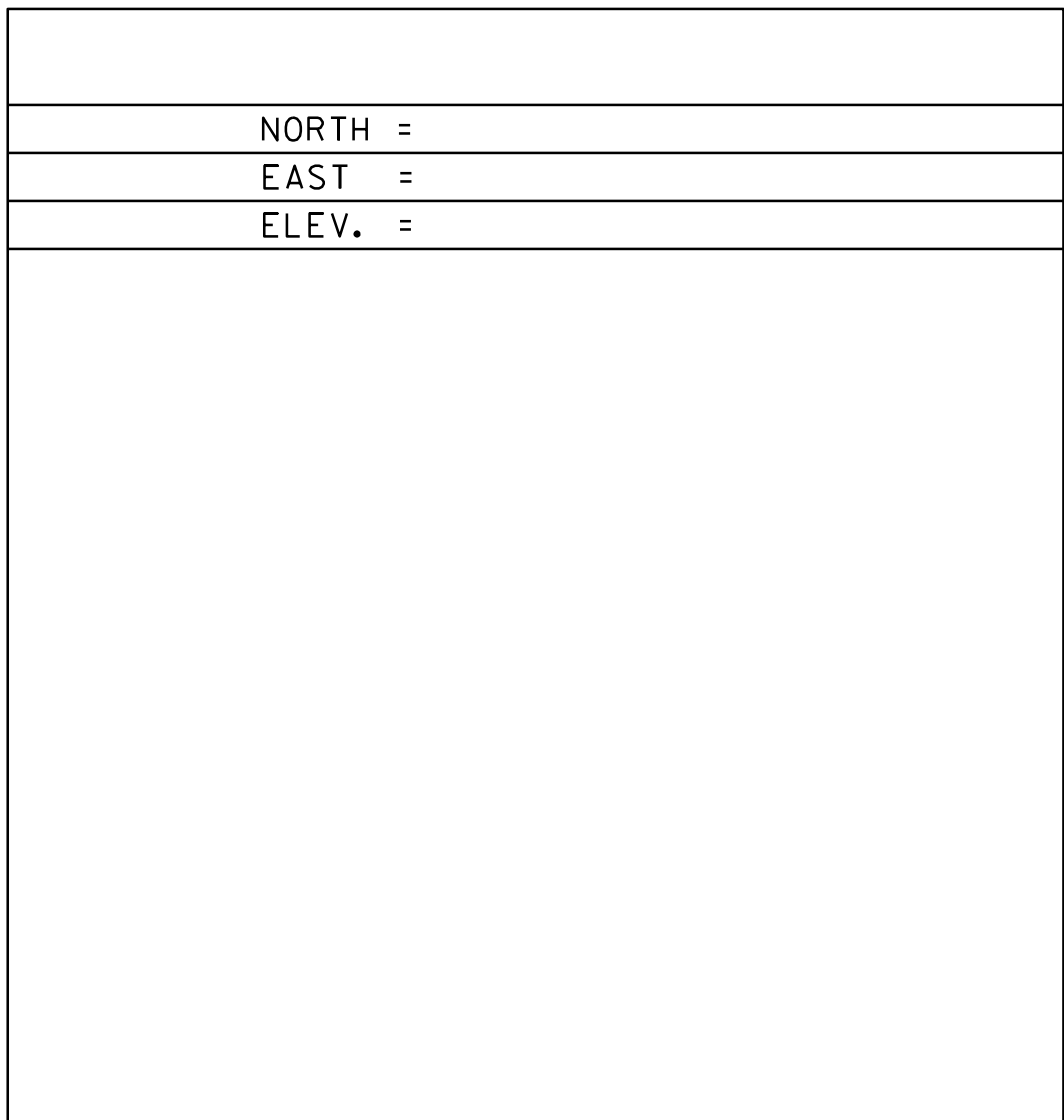
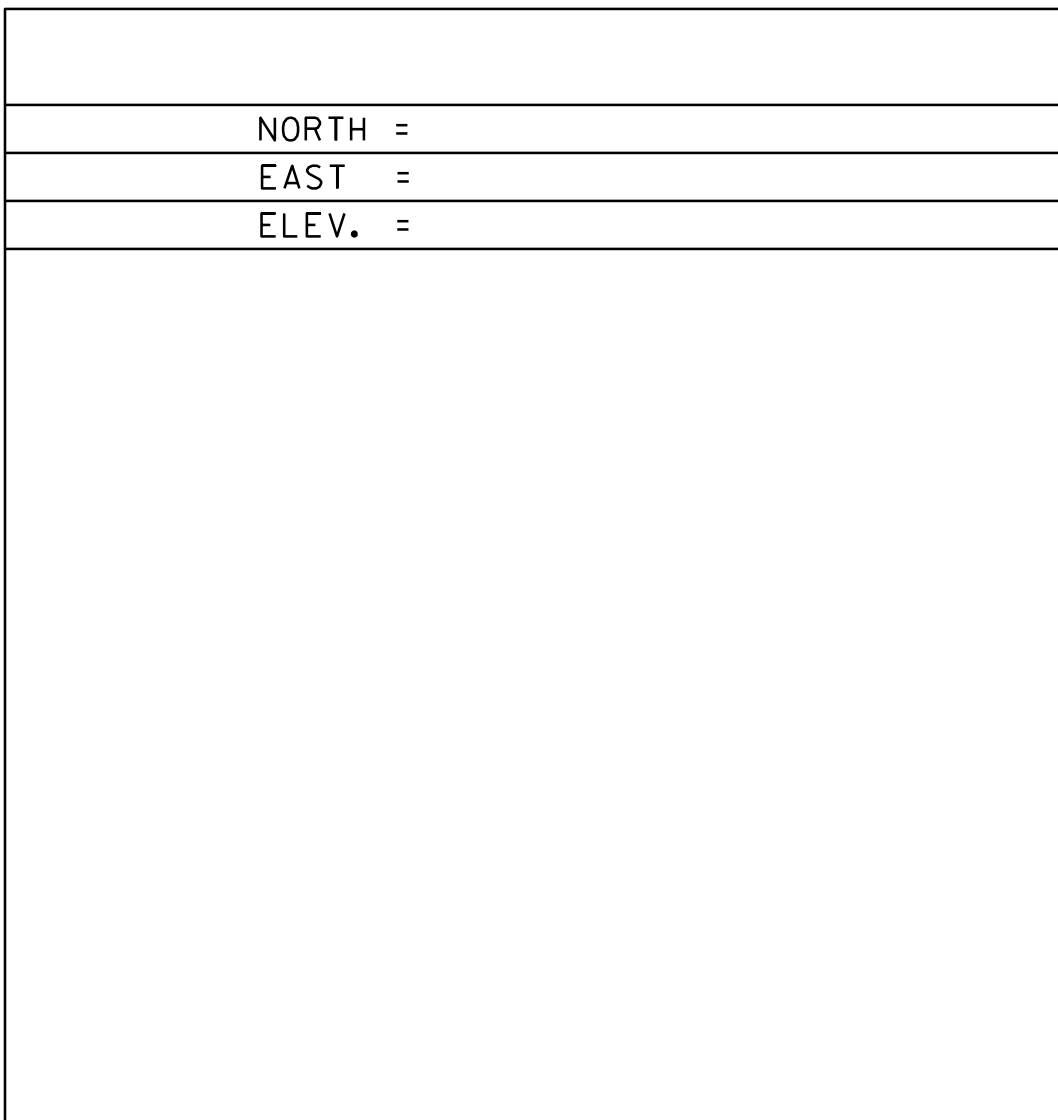
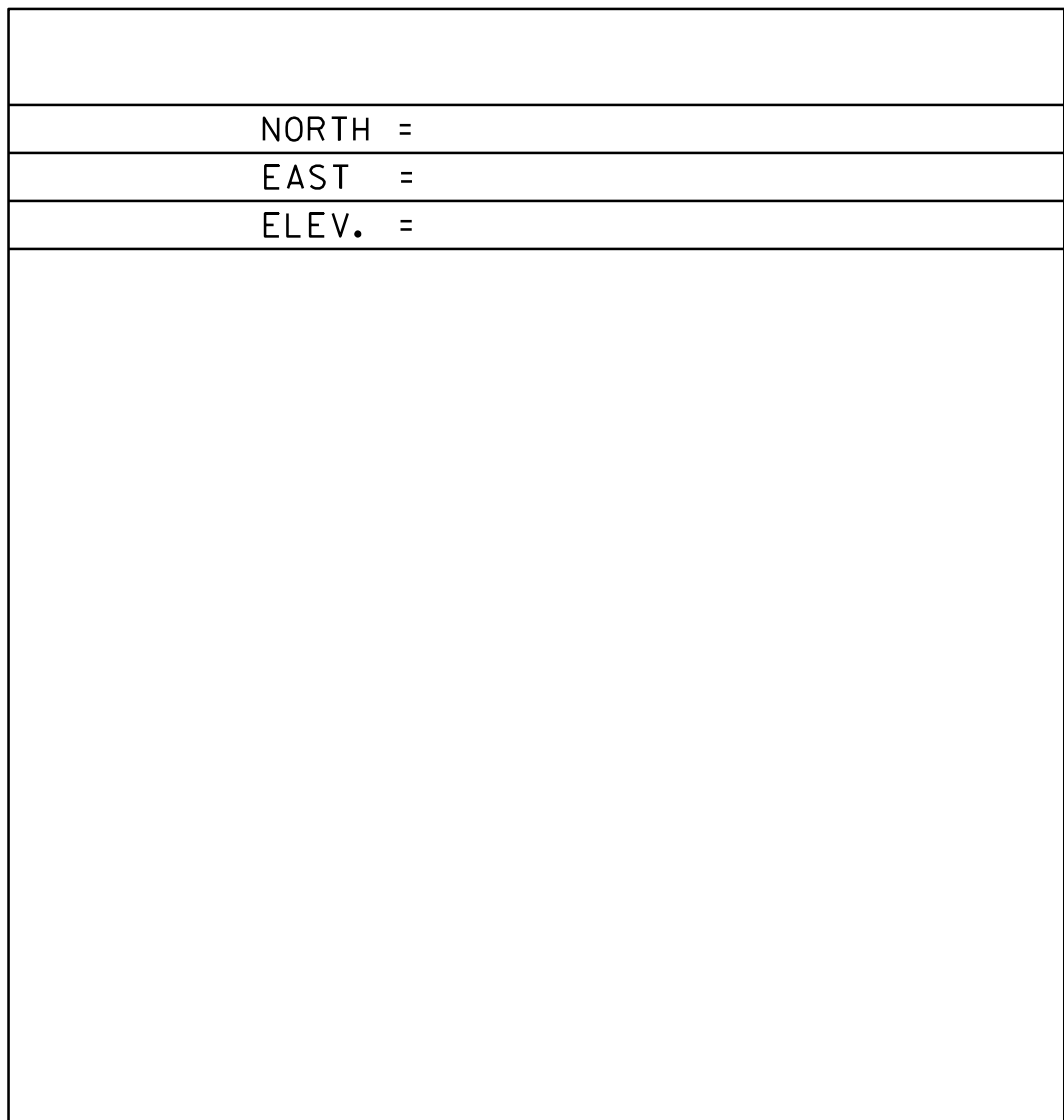
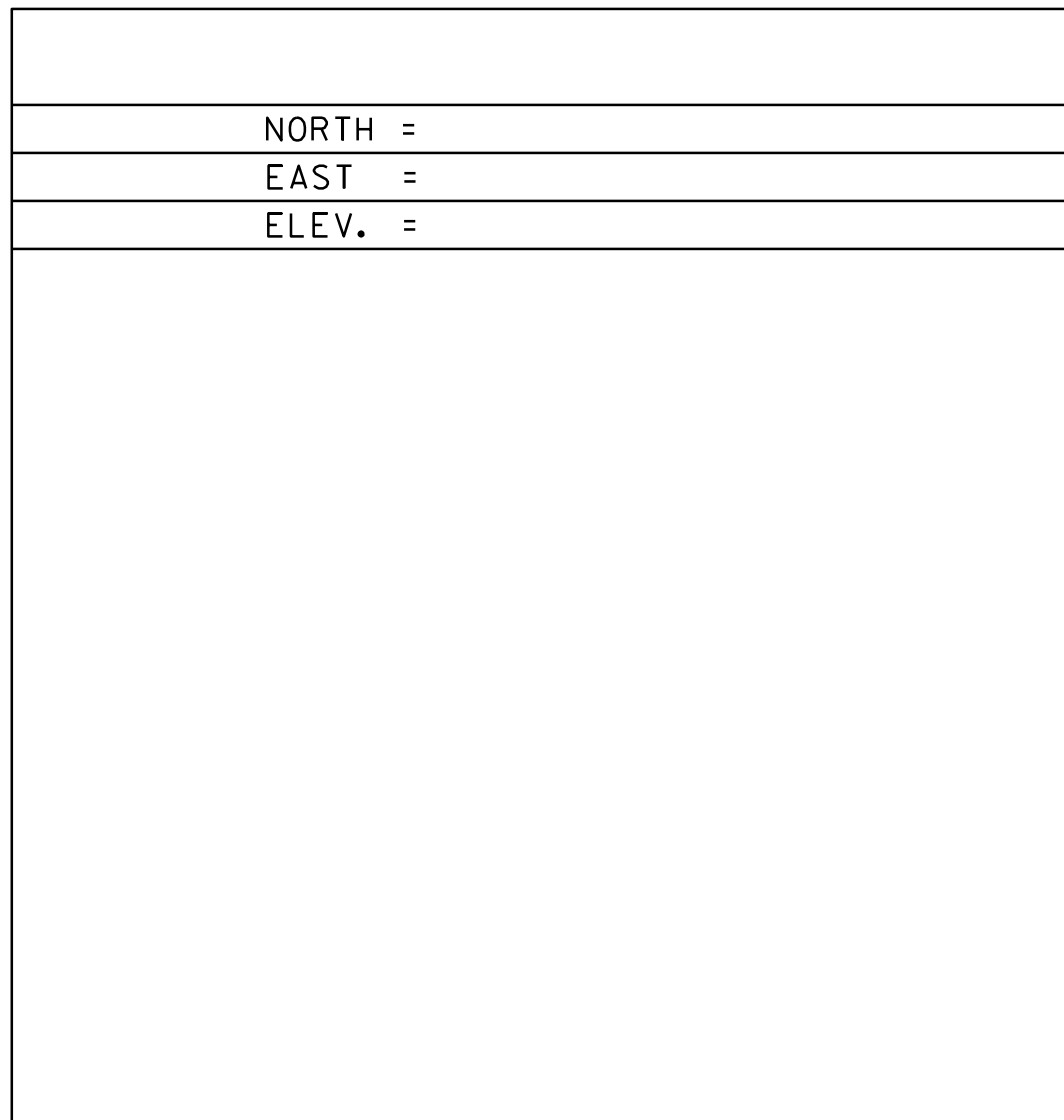
BUELS GORE, VT.  
THE STATION IS ABOUT 0.15 MI WEST OF THE LARGE PARKING AREA NEAR THE COMMUNICATIONS TOWER AT THE CREST OF THE MCCULLOUGH TURNPIKE (VT ROUTE 17). THE MARK IS SET FLUSH WITH GROUND SURFACE IN THE TOP OF A MASSIVE ROCK OUTCROP. IT IS 8.8 M WEST OF AND LEVEL WITH THE CENTERLINE OF ROUTE 17, 14.1 M SOUTHWEST OF A SPEED LIMIT SIGNPOST, 41.5 M NORTH OF THE WESTERLY SIGNPOST FOR A LEFT TURN ARROW AND ABOUT 15 M SOUTHWEST OF A PAINTED SIGN FOR THE GREEN MOUNTAIN STAGE RACE (GMSR 500M).

SECONDARY CONTROL



\*TRAVERSE COMPLETED ON 5/19/2021 BY J.WANTUCH & H.MCGOWAN

ALIGNMENT TIES



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	BUELS GORE
PROJECT NUMBER:	BF 0200 (II)
FILE NAME:	X2IB027TI.DGN
PROJECT LEADER:	R. KLINEFELTER
DESIGNED BY:	VTRANS
TIE SHEET	
PLOT DATE:	20-APR-2023
DRAWN BY:	H.MCGOWAN
CHECKED BY:	R. GILMAN
SHEET	5 OF 16



STONE FILL TYPE IV  
STA 83+10.00 - STA 83+32.00 LT  
STA 82+41.00 - STA 83+44.00 RT

STONE FILL TYPE I  
STA 83+43.00 - STA 84+00.00 LT  
STA 82+82.00 - STA 84+00.00 RT

4 IN WHITE LINE  
STA 82+25.00 - STA 83+75.00 LT  
STA 82+25.00 - STA 83+75.00 RT

4 IN YELLOW LINE  
STA 82+25.00 - STA 83+75.00 CL

REMOVE AND RESET GUARDRAIL  
STA 82+75.00 - STA 83+25.00 LT  
STA 82+75.00 - STA 83+25.00 RT

CURVE (2)  
DELTA = 92°48'41"  
D = 36°57'54"  
R = 155.00'  
T = 162.80'  
L = 251.08'  
e = 69.79'

END PROJECT  
STA 83+75.00

END BRIDGE  
STA 83+04.60

BEGIN BRIDGE  
STA 82+95.32

BEGIN PROJECT  
STA 82+25.00

BEGIN APPROACH  
STA 81+75.00

END APPROACH  
STA 84+25.00

MANLINE STA 83+00.00  
CHANNEL STA 51+00.00  
DELTA = 59.33 DEGREES

BENCHMARK  
RAILROAD SPIKE  
IN TRUNK  
ELEV=1875.63

CURVE (3)  
DELTA = 50°54'40"  
D = 22°02'13"  
R = 260.00'  
T = 123.77'  
L = 231.03'  
e = 27.96'

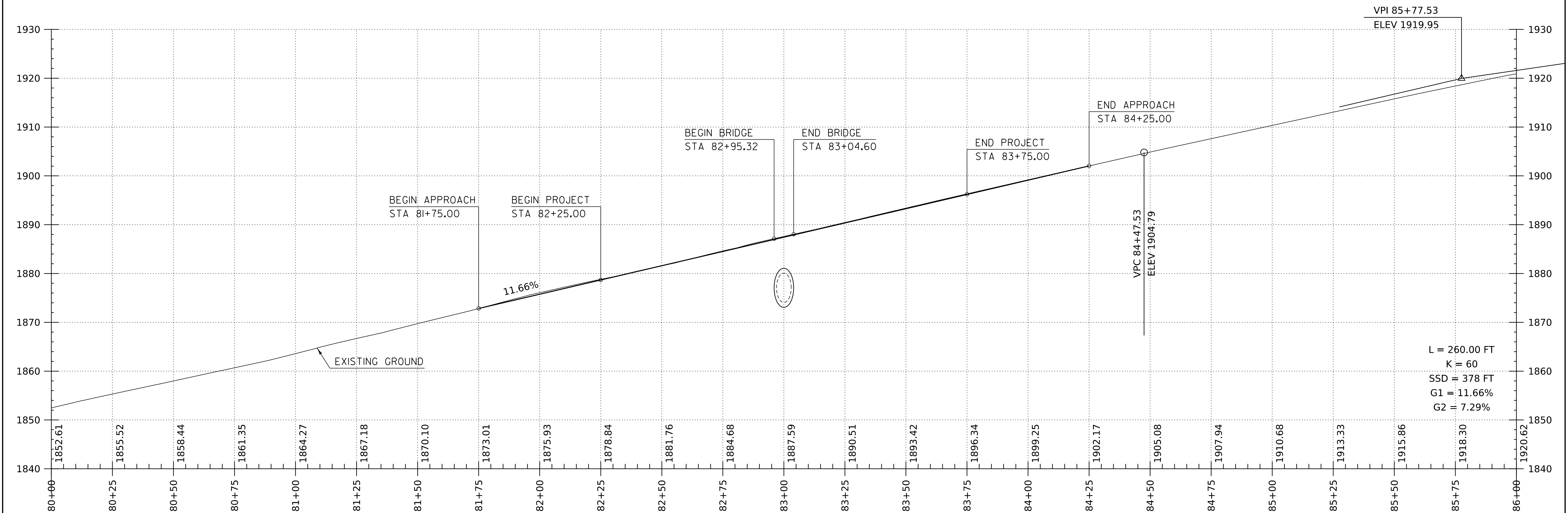
SCALE 1" = 20' - 0"  
20 0 20

CURVE (1)  
DELTA = 12°33'07"  
D = 07°15'09"  
R = 790.00'  
T = 86.88'  
L = 173.07'  
e = 4.76'

EXISTING BRIDGE INFORMATION  
6' x 72' ACCGMPP  
BUILT 1957  
7' AVERAGE COVER OVER PIPE

PROJECT NAME: BUEL'S GORE  
PROJECT NUMBER: BF 0200(II)

FILE NAME: s21b027BDR\_New Culvert.dgn  
PROJECT LEADER: R KLINEFELTER  
DESIGNED BY: HISALLS  
LAYOUT SHEET  
PLOT DATE: 20-APR-2023  
DRAWN BY: HISALLS  
CHECKED BY: R KLINEFELTER  
SHEET 6 OF 16

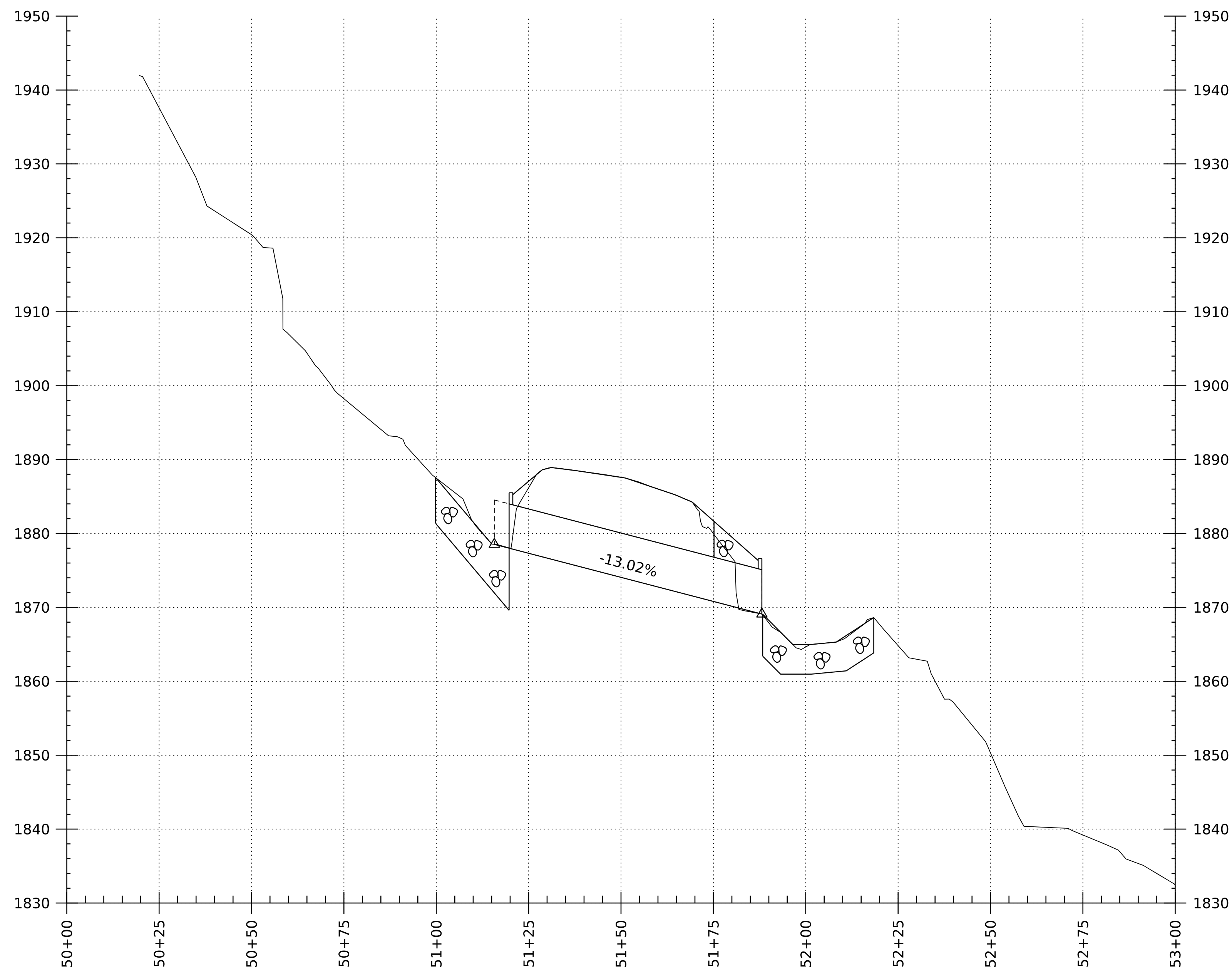


### VT ROUTE 17 PROFILE

SCALE: HORIZONTAL 1"=20'-0"  
VERTICAL 1"=10'-0"

NOTE:  
GRADES SHOWN TO THE NEAREST  
TENTH ARE EXISTING GROUND ALONG ☐  
GRADES SHOWN TO THE NEAREST  
HUNDREDTH ARE FINISH GRADE ALONG ☐

PROJECT NAME: BUEL'S GORE	
PROJECT NUMBER: BF 0200(II)	
FILE NAME: s2b027profile.dgn	PLOT DATE: 20-APR-2023
PROJECT LEADER: R KLINEFELTER	DRAWN BY: HISALLS
DESIGNED BY: HISALLS	CHECKED BY: R KLINEFELTER
ROADWAY PROFILE SHEET	SHEET 7 OF 16



CHANNEL PROFILE

SCALE: HORIZONTAL 1"=20'-0"  
VERTICAL 1"=10'-0"

PROJECT NAME: BUEL'S GORE	
PROJECT NUMBER: BF 0200(II)	
FILE NAME: s2lb027profile.dgn	PLOT DATE: 20-APR-2023
PROJECT LEADER: R KLINEFELTER	DRAWN BY: HISALLS
DESIGNED BY: HISALLS	CHECKED BY: R KLINEFELTER
CHANNEL PROFILE SHEET	SHEET 8 OF 16



SOIL CLASSIFICATION

AASHTO	
A1	Gravel and Sand
A3	Fine Sand
A2	Silty or Clayey Gravel and Sand
A4	Silty Soil - Low Compressibility
A5	Silty Soil - Highly Compressible
A6	Clayey Soil - Low Compressibility
A7	Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

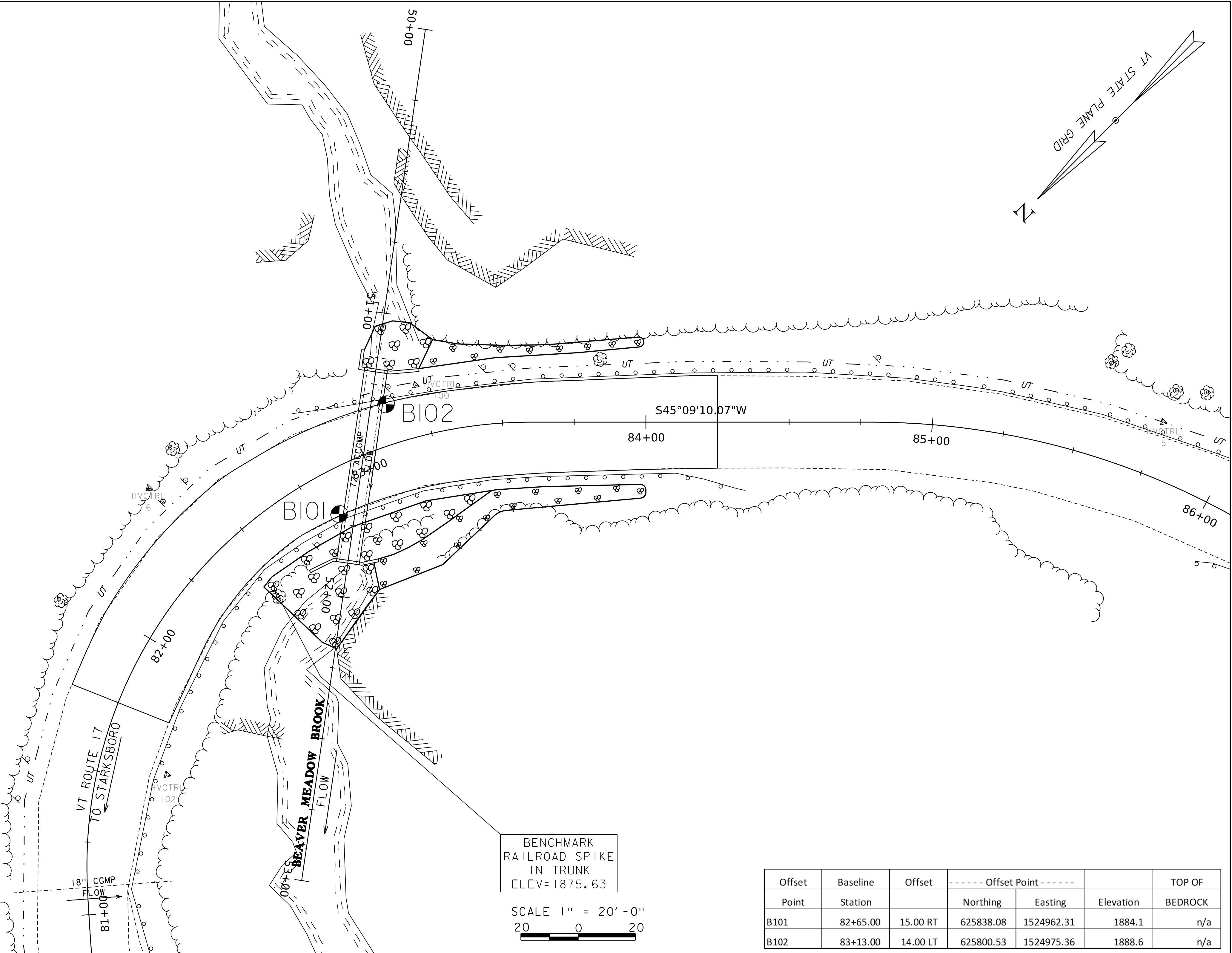
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊕	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt.Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
ROD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



GENERAL NOTES

- The subsurface explorations shown herein were made between ??/?/?/20?? and ??/?/?/20?? by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

DEFINITIONS (AASHTO)

**BEDROCK (LEDGE)** - Rock in its native location of indefinite thickness.

**BOULDER** - A rock fragment with an average dimension > 12 inches.

**COBBLE** - Rock fragments with an average dimension between 3 and 12 inches.

**GRAVEL** - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

**SAND** - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

**SILT** - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

**CLAY** - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

**VARVED** - Alternate layers of silt and clay.

**HARDPAN** - Extremely dense soil, cemented layer, not softened when wet.

**MUCK** - Soft organic soil (containing > 10% organic material).

**MOISTURE CONTENT** - Weight of water divided by dry weight of soil.

**FLOWING SAND** - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

**STRIKE** - Angle from magnetic north to line of intersection of bed with a horizontal plane.

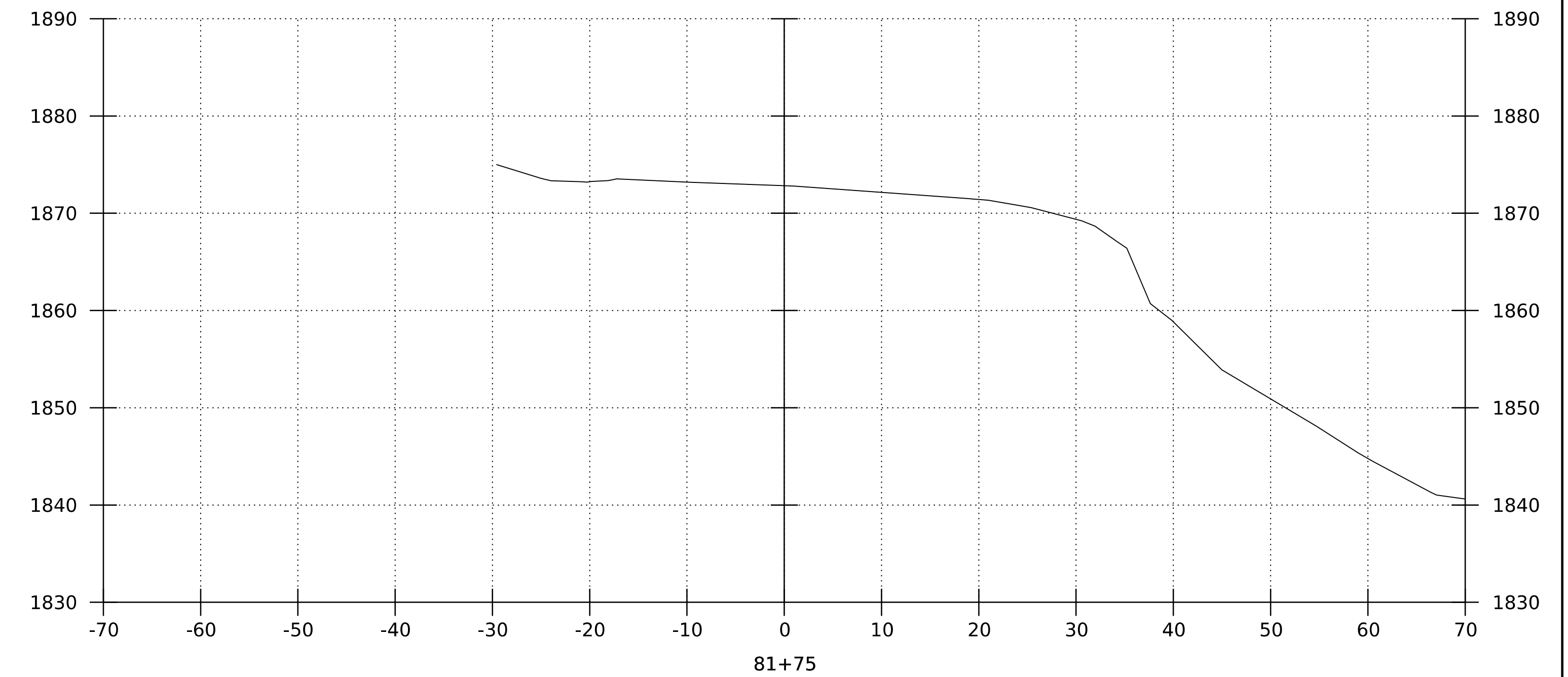
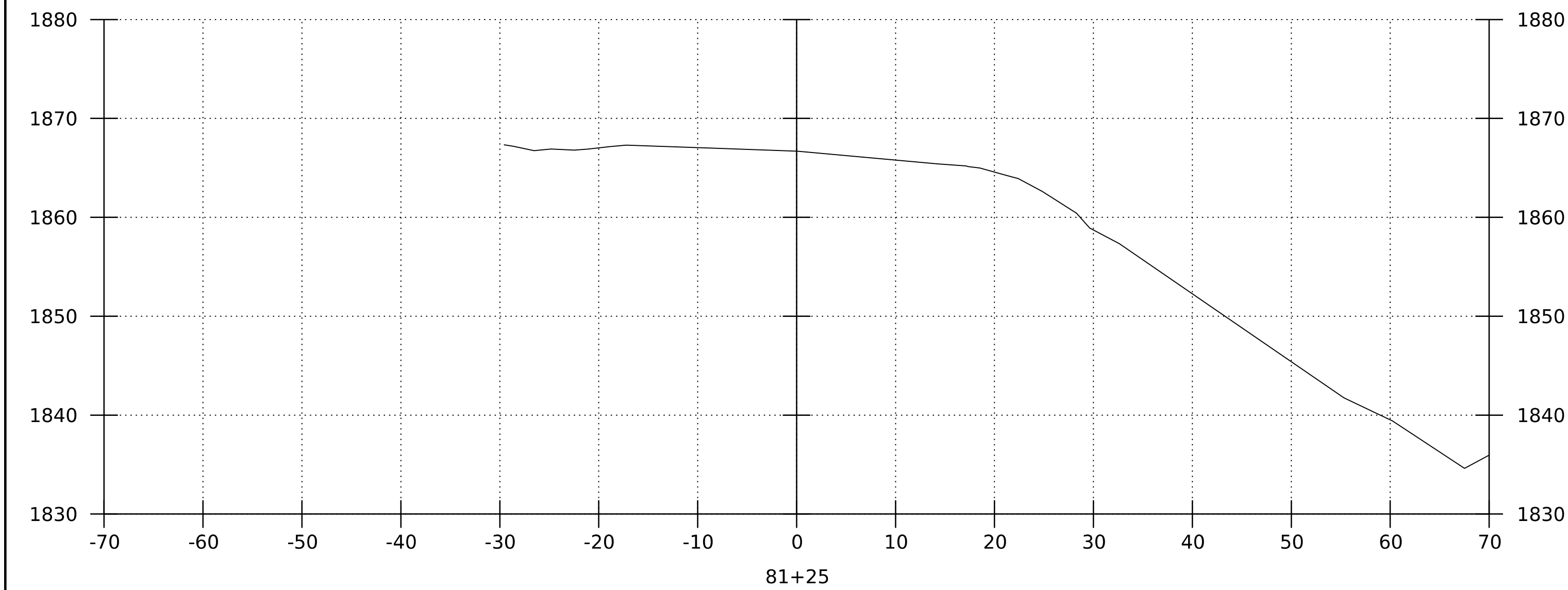
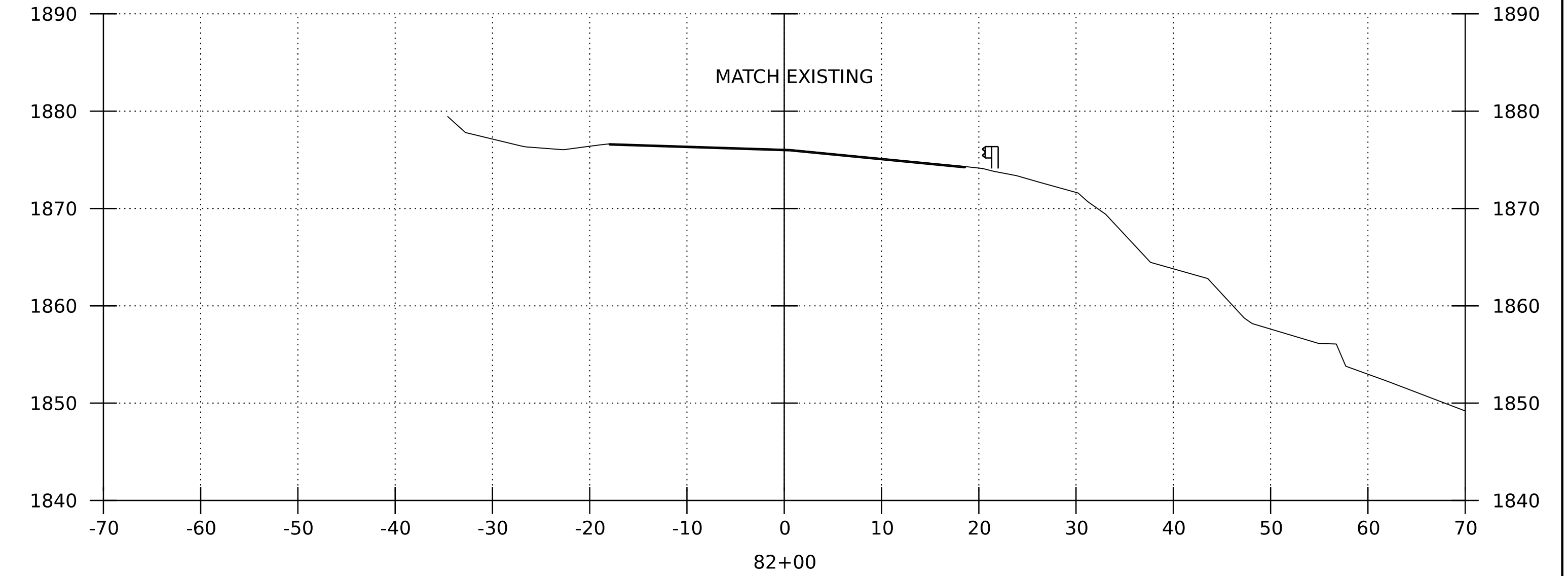
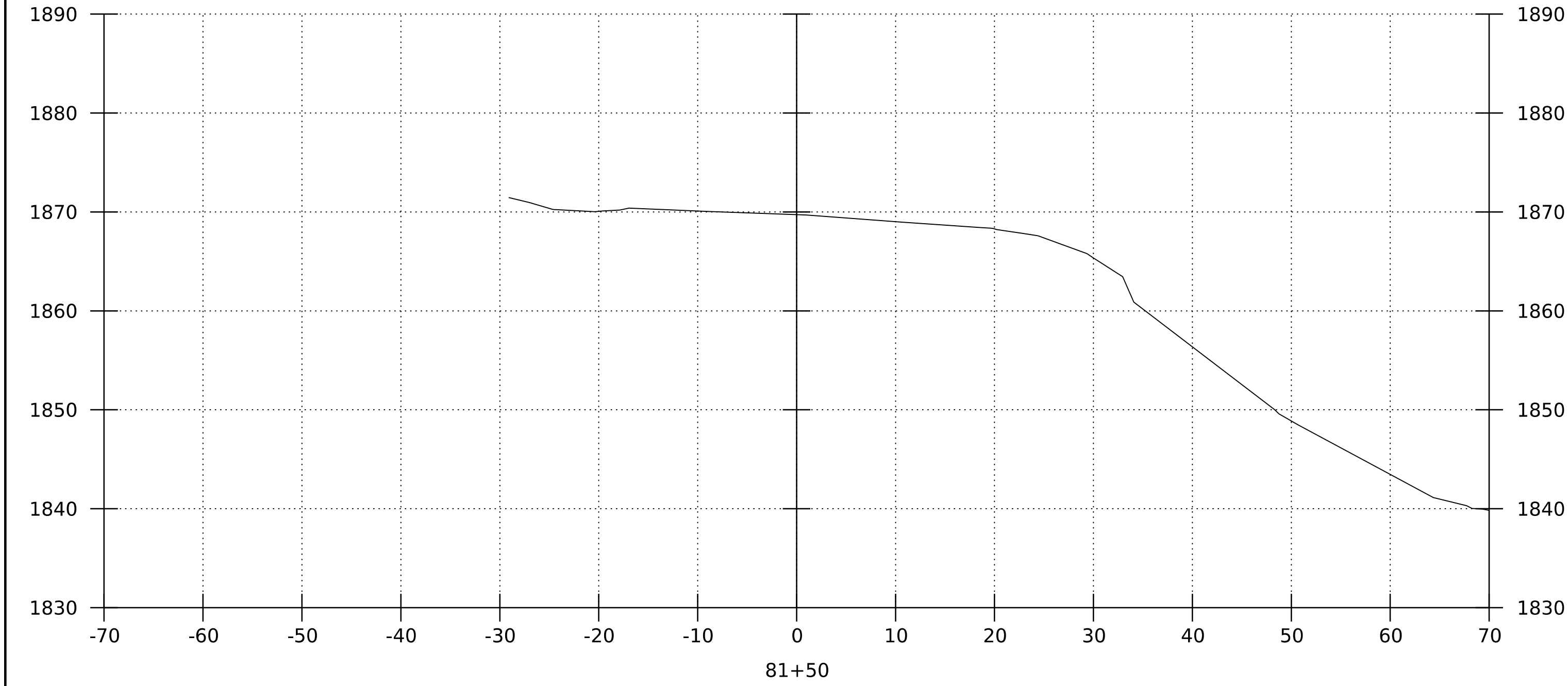
**DIP** - Inclination of bed with a horizontal plane.

PROJECT NAME: BUEL'S GORE

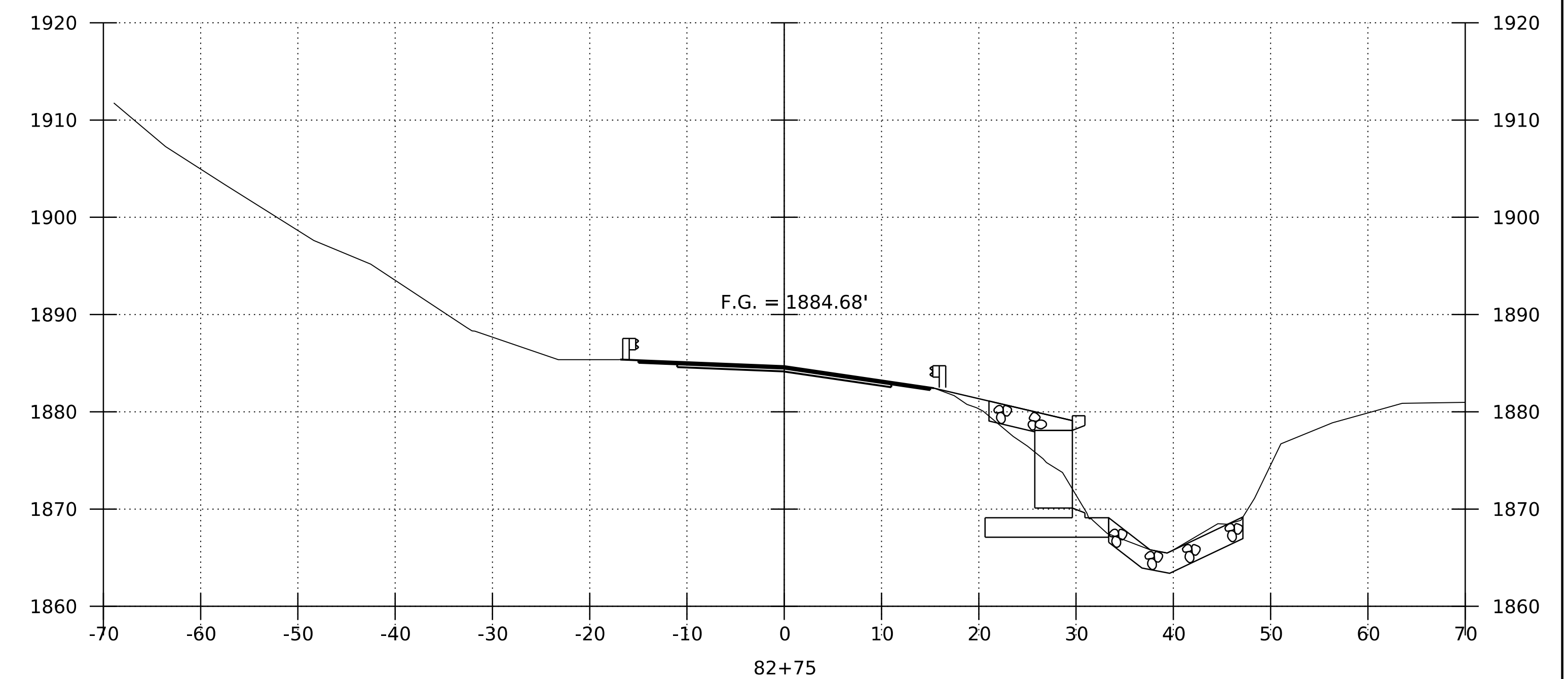
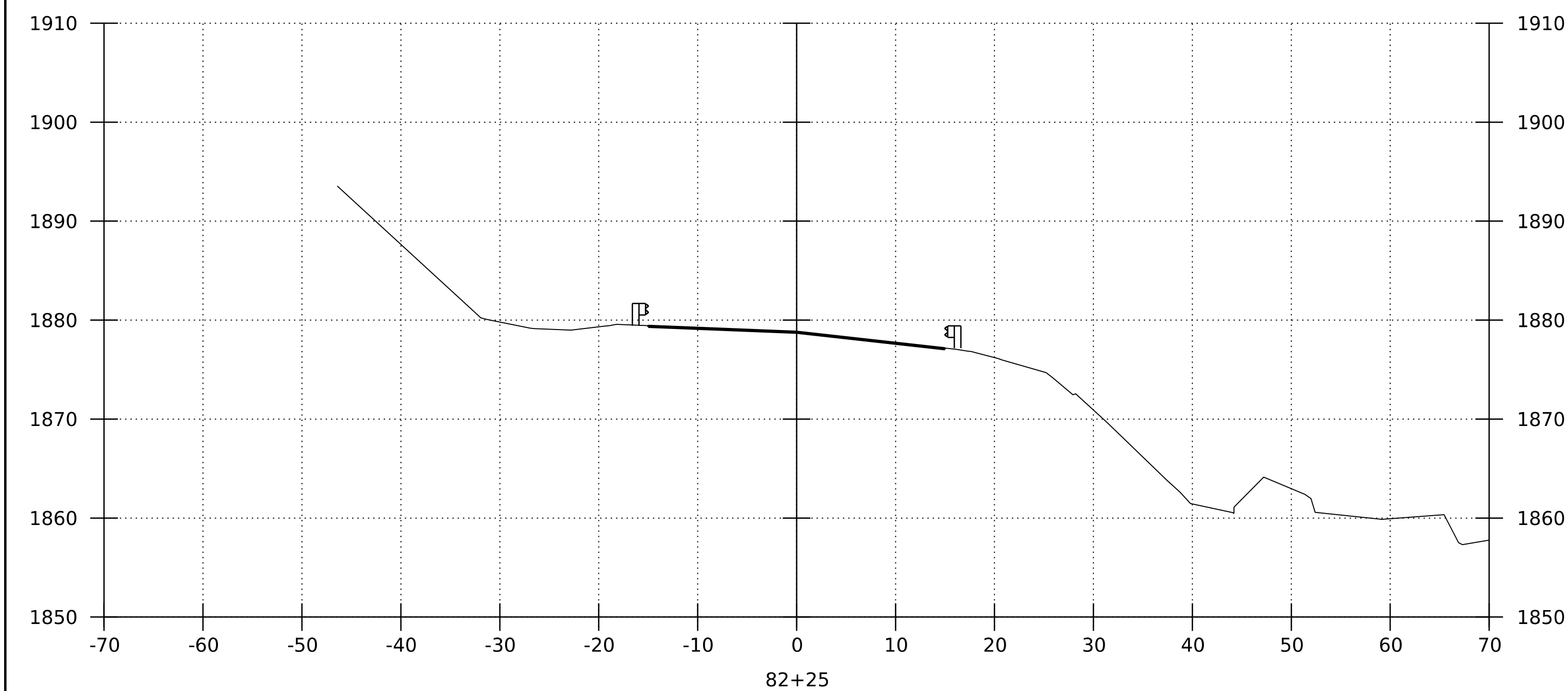
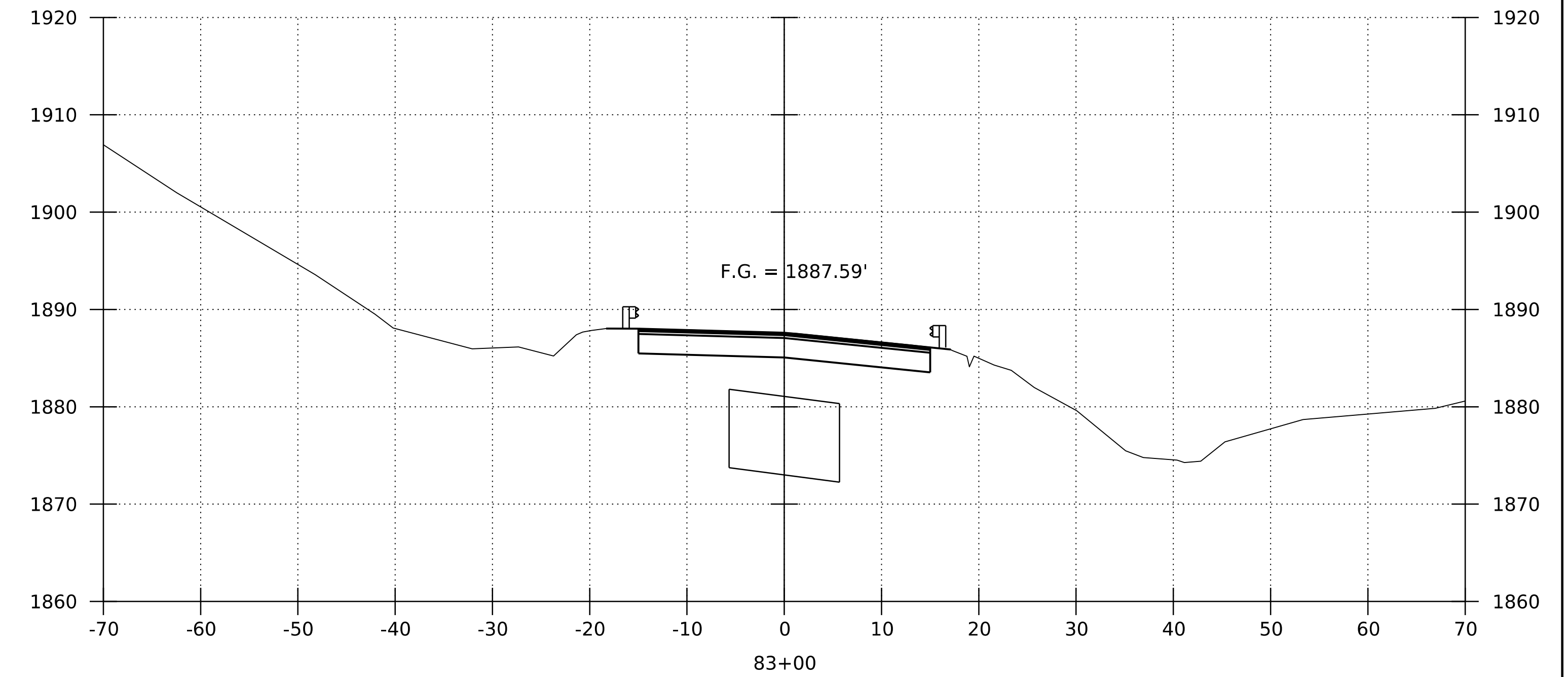
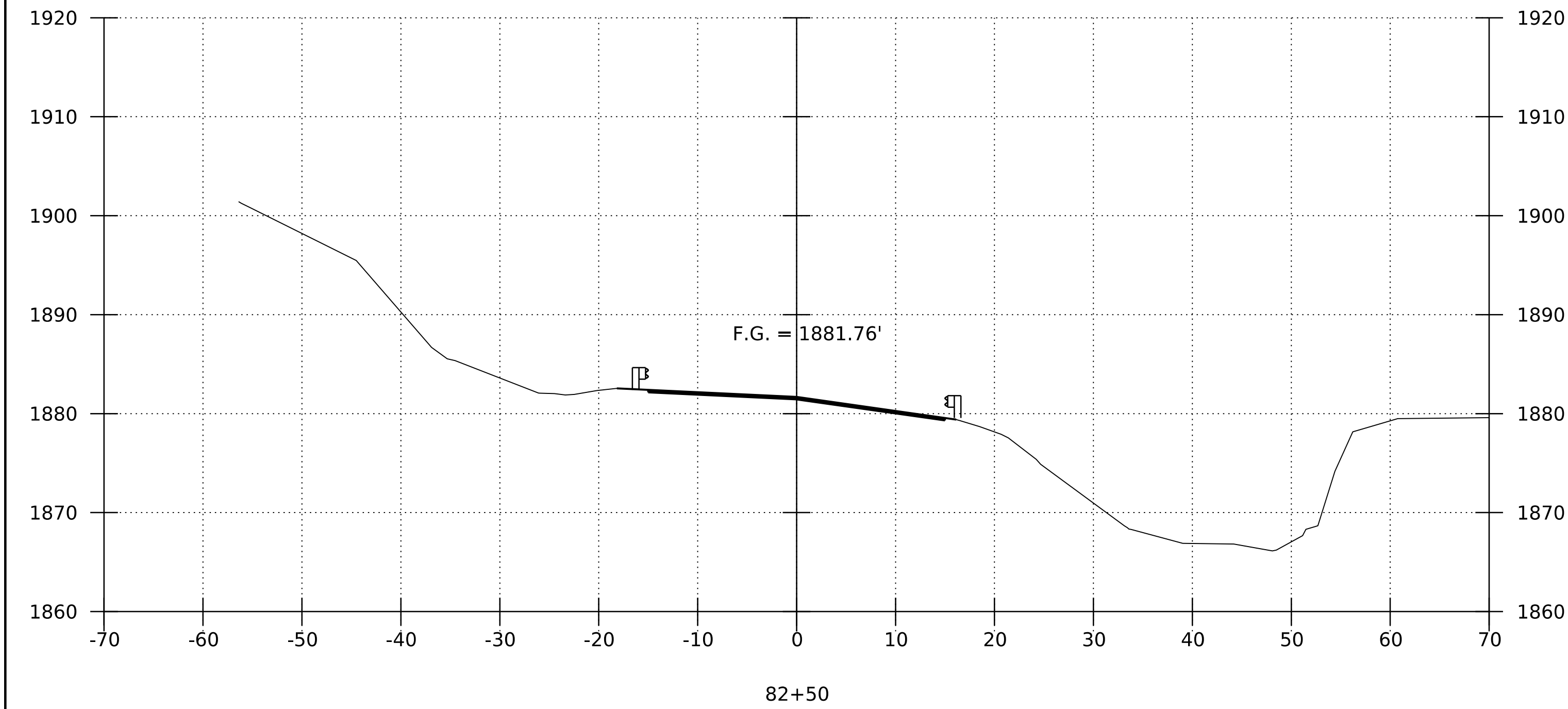
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BORING INFORMATION SHEET

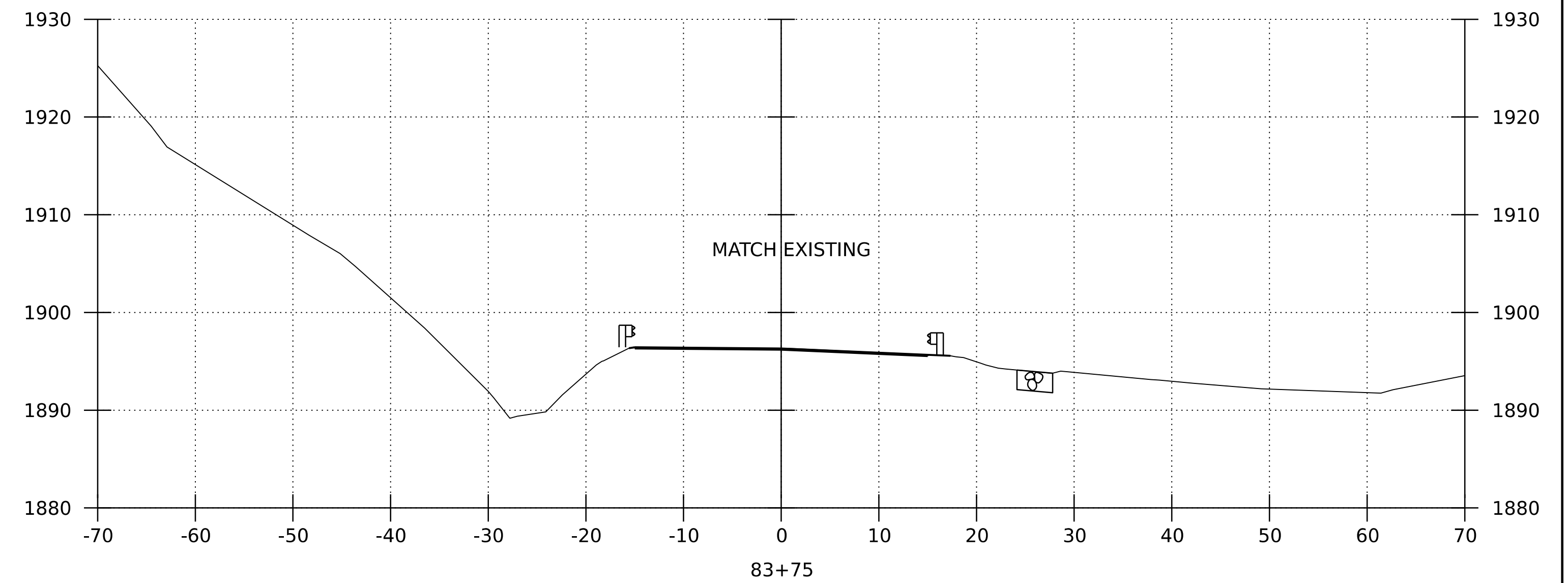
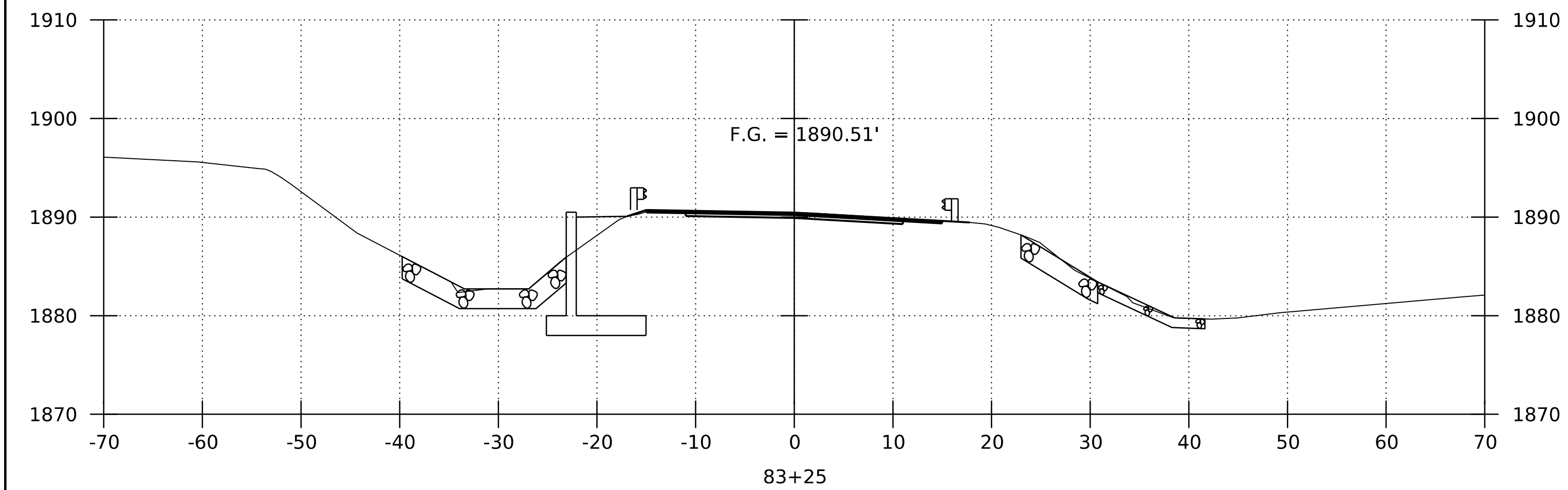
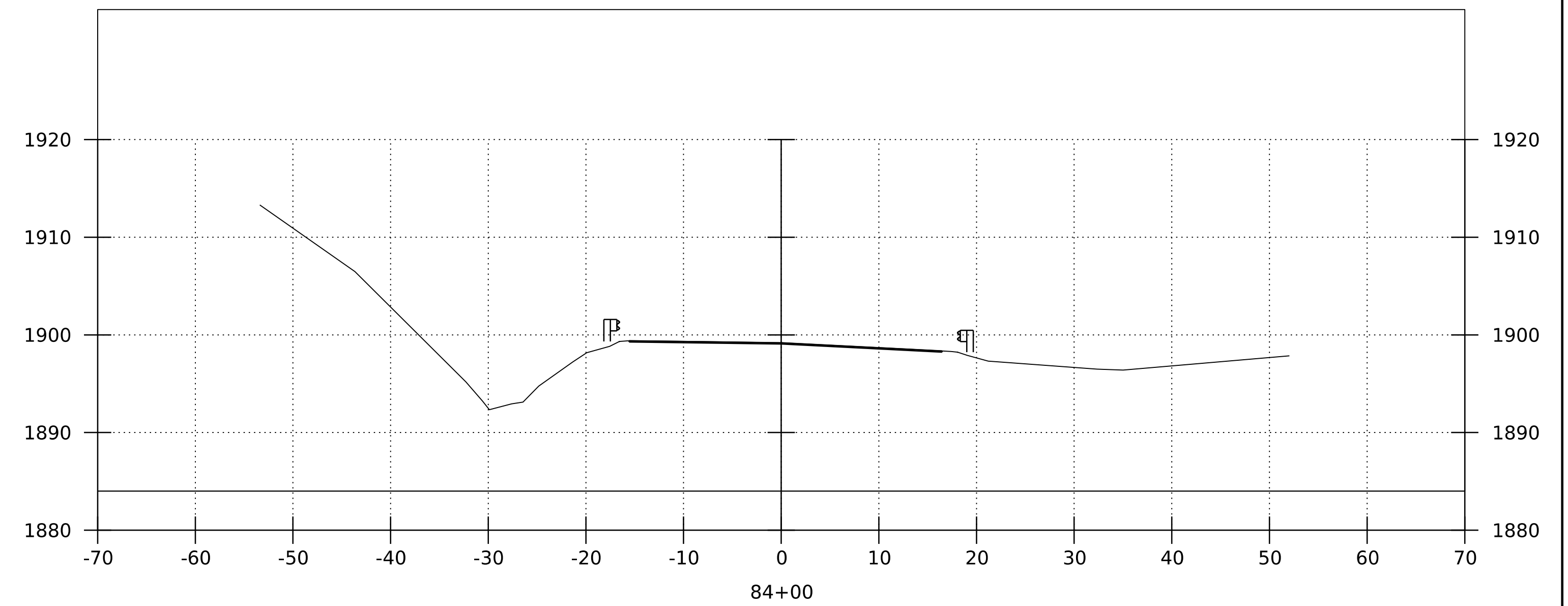
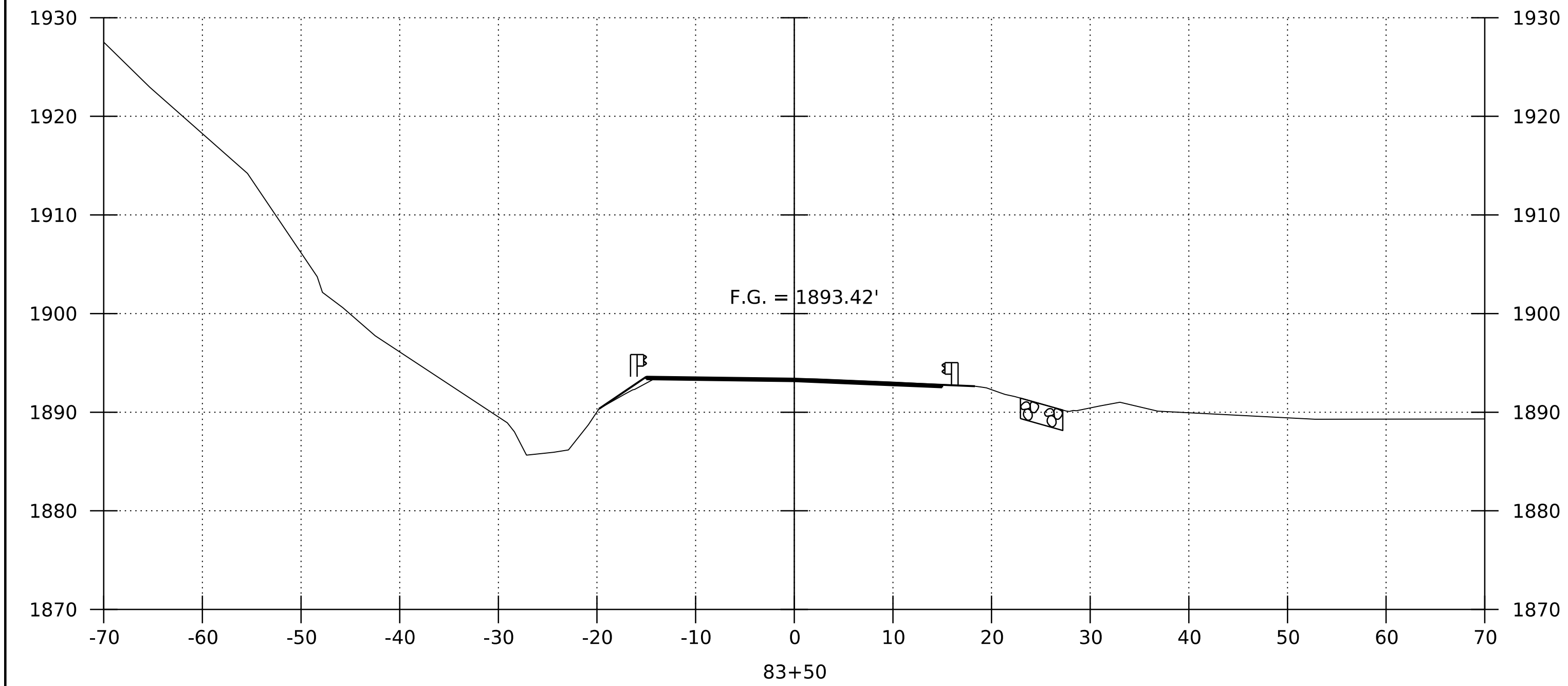
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SHEET 9 OF 16



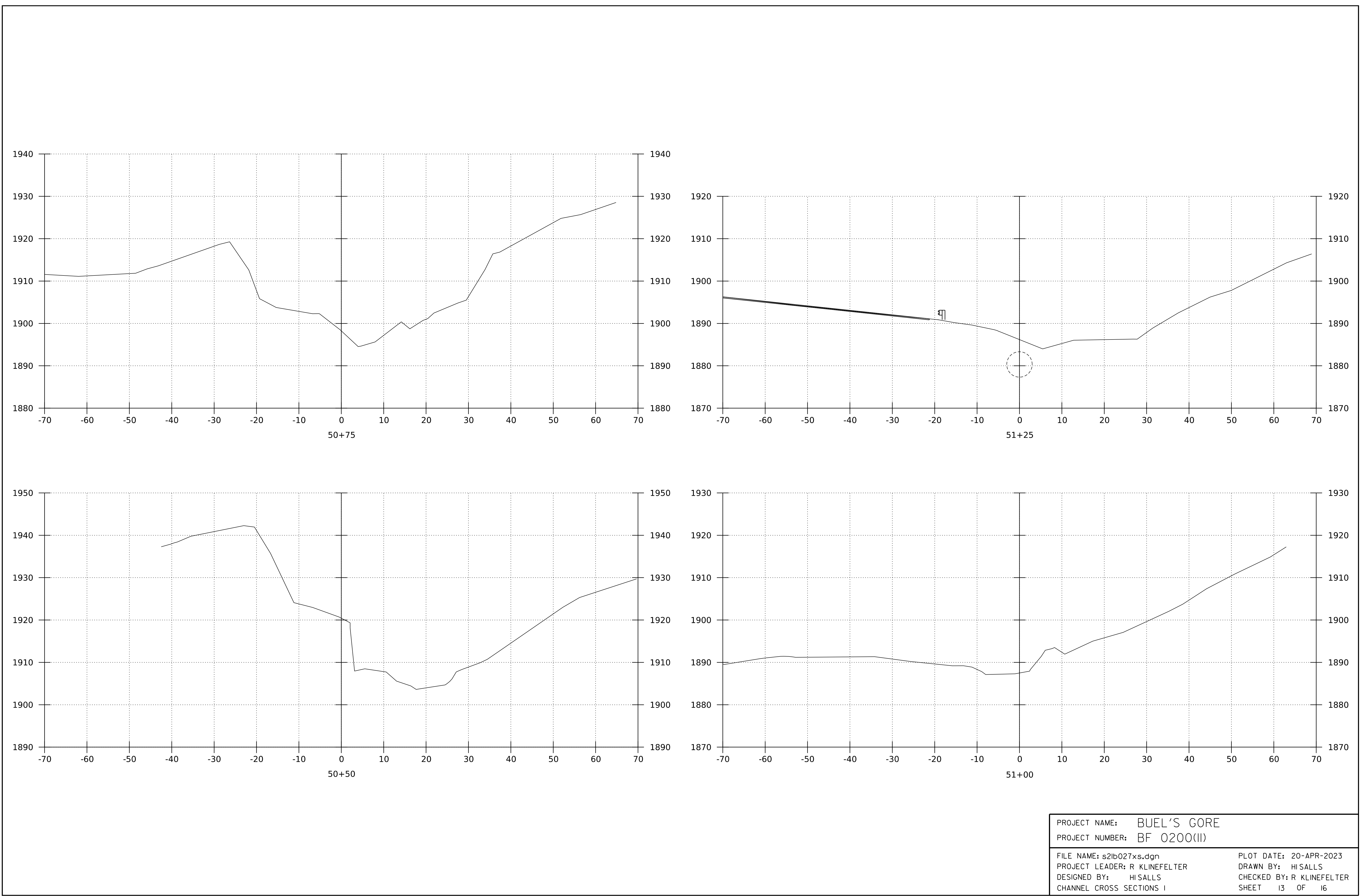
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ROADWAY CROSS SECTIONS I	SHEET 10 OF 16

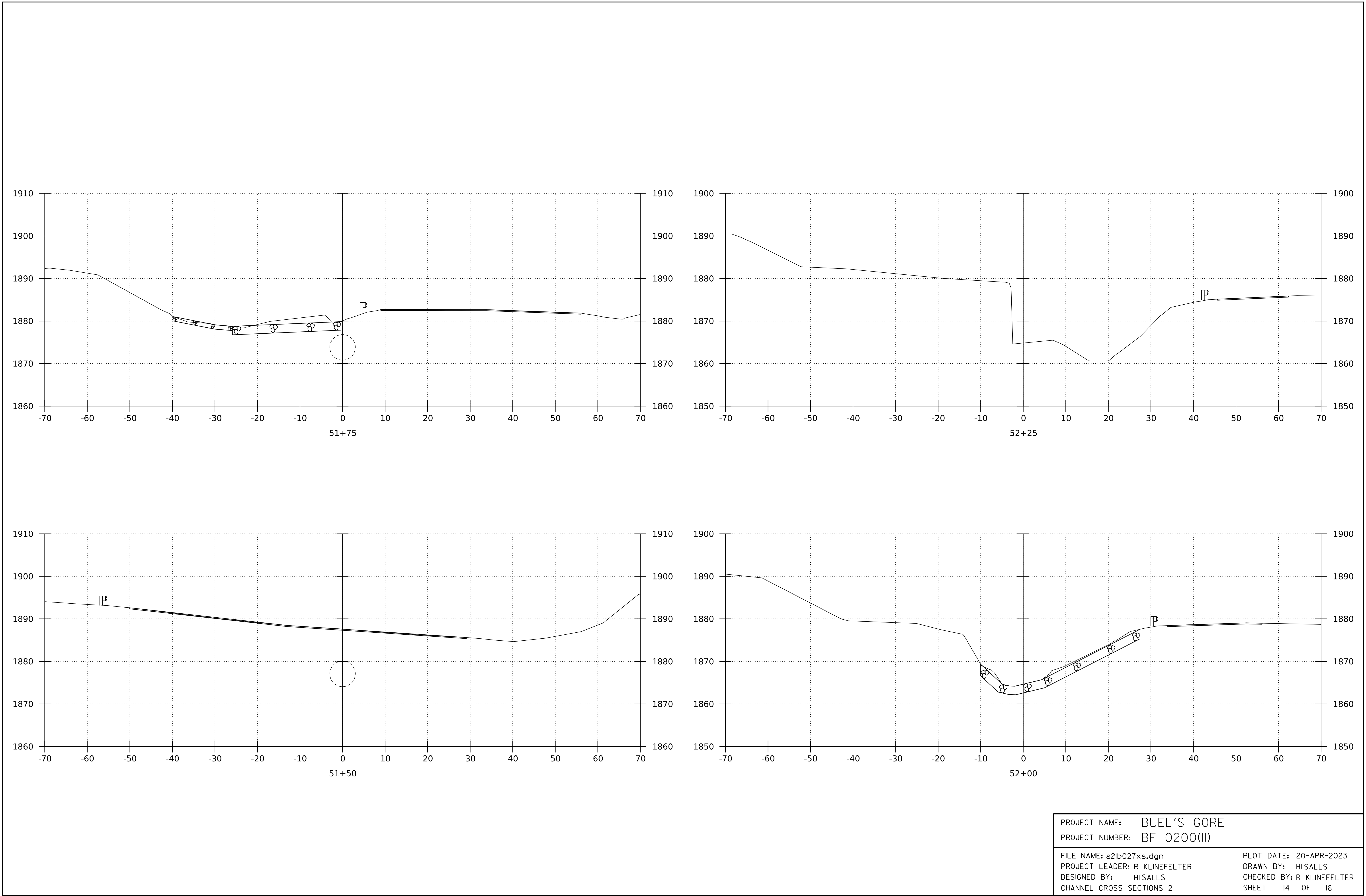


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DESIGNED BY: HISALLS	CHECKED BY: R KLINEFELTER
ROADWAY CROSS SECTIONS 2	SHEET II OF 16



PROJECT NAME: BUEL'S GORE	
PROJECT NUMBER: BF 0200(II)	
FILE NAME: s2lb027xs.dgn	PLOT DATE: 20-APR-2023
PROJECT LEADER: R KLINEFELTER	DRAWN BY: HISALLS
DESIGNED BY: HISALLS	CHECKED BY: R KLINEFELTER
ROADWAY CROSS SECTIONS 3	SHEET 12 OF 16





PROJECT NAME: BUEL'S GORE

PROJECT NUMBER: BF 0200(II)

FILE NAME: s2lb027xs.dgn

PROJECT LEADER: R KLINEFELTER

DESIGNED BY: HISALLS

CHANNEL CROSS SECTIONS 2

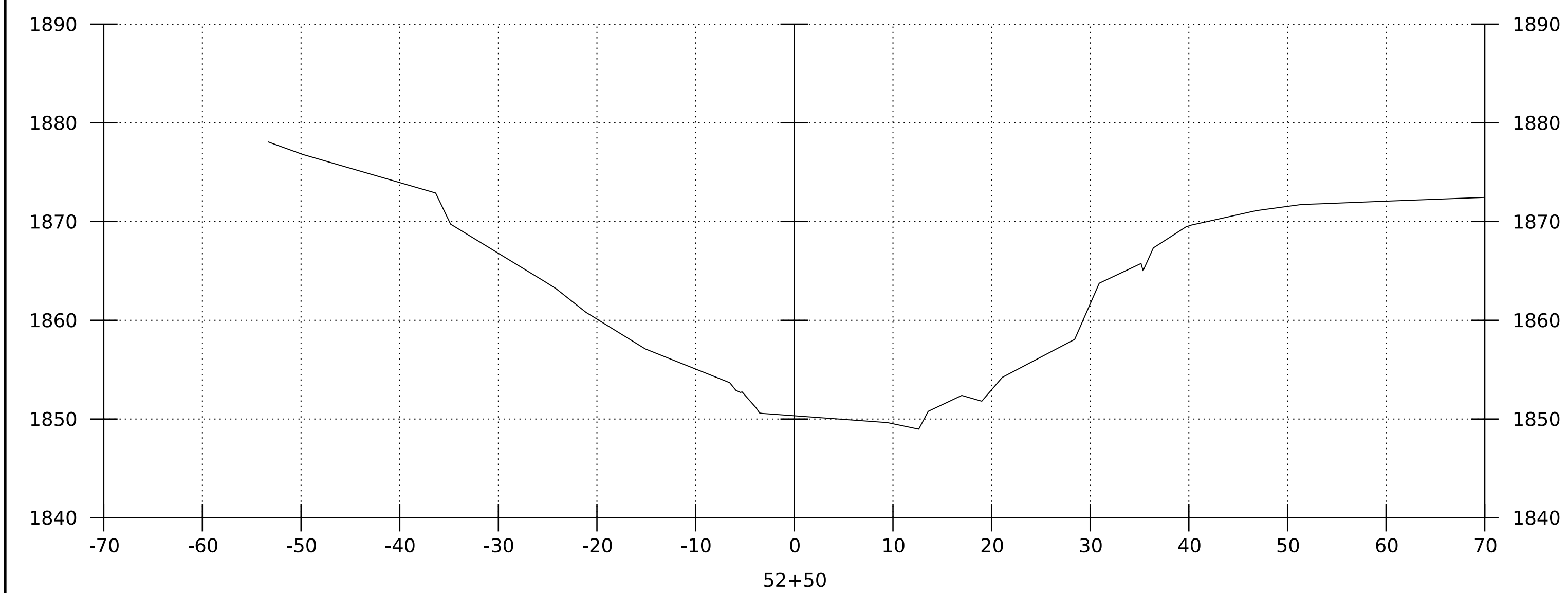
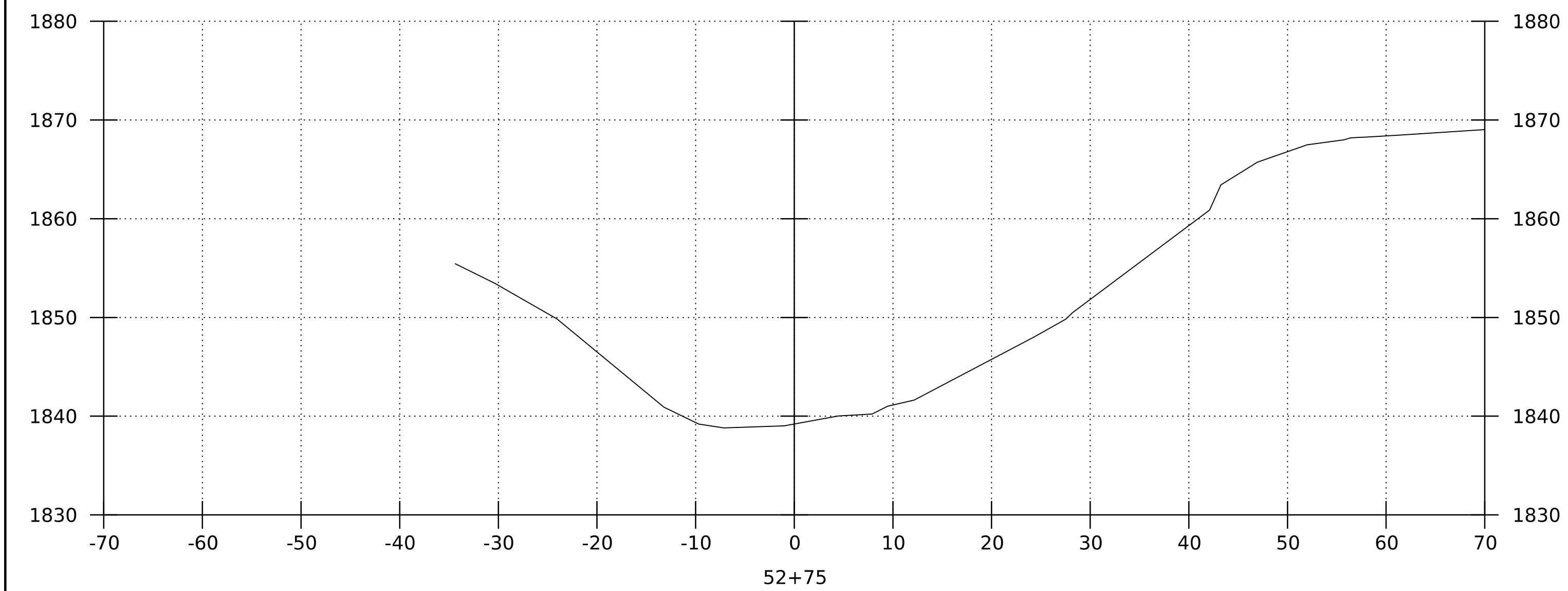
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SHEET 14 OF 16

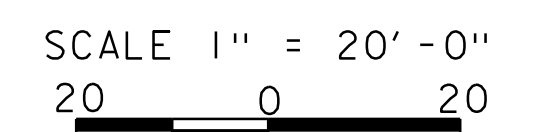
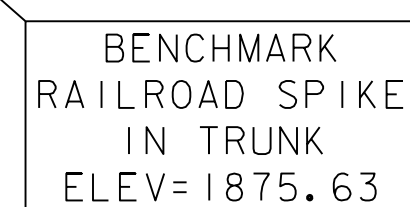




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DESIGNED BY: HISALLS  
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PLOT DATE: 20-APR-2023  
DRAWN BY: HISALLS  
CHECKED BY: R KLINEFELTER  
SHEET 15 OF 16



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PROJECT LEADER:	R. KLINEFELTER	DRAWN BY: HISALLS
DESIGNED BY:	HISALLS	CHECKED BY: R. KLINEFELTER
RESOURCE SITE PLAN	SHEET 16	OF 16