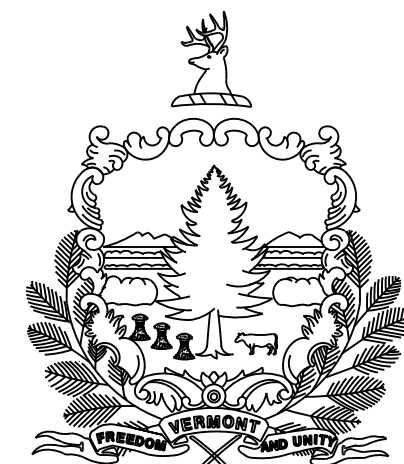


STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

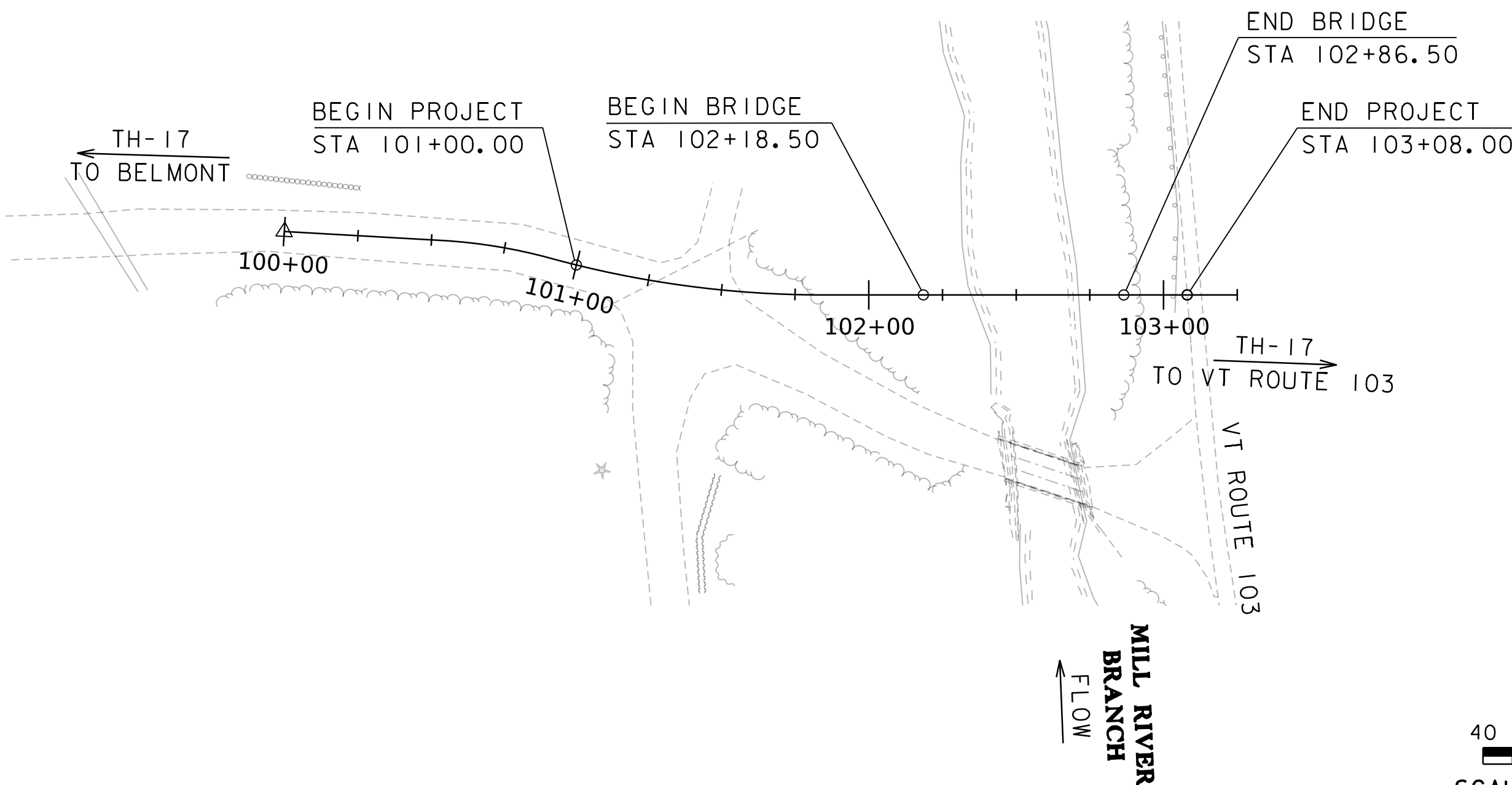
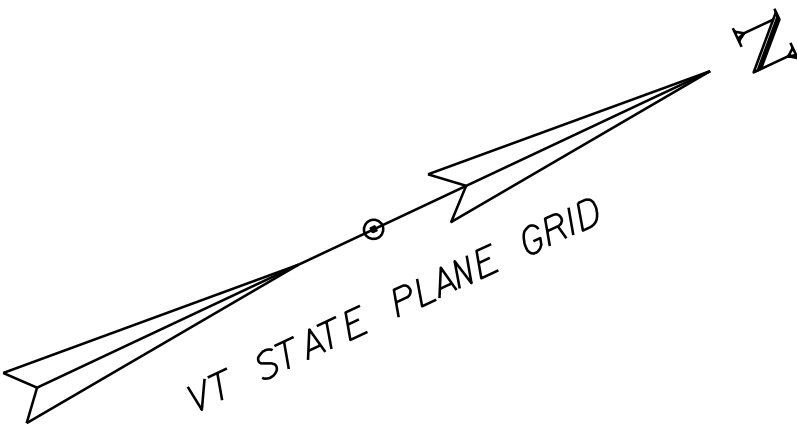
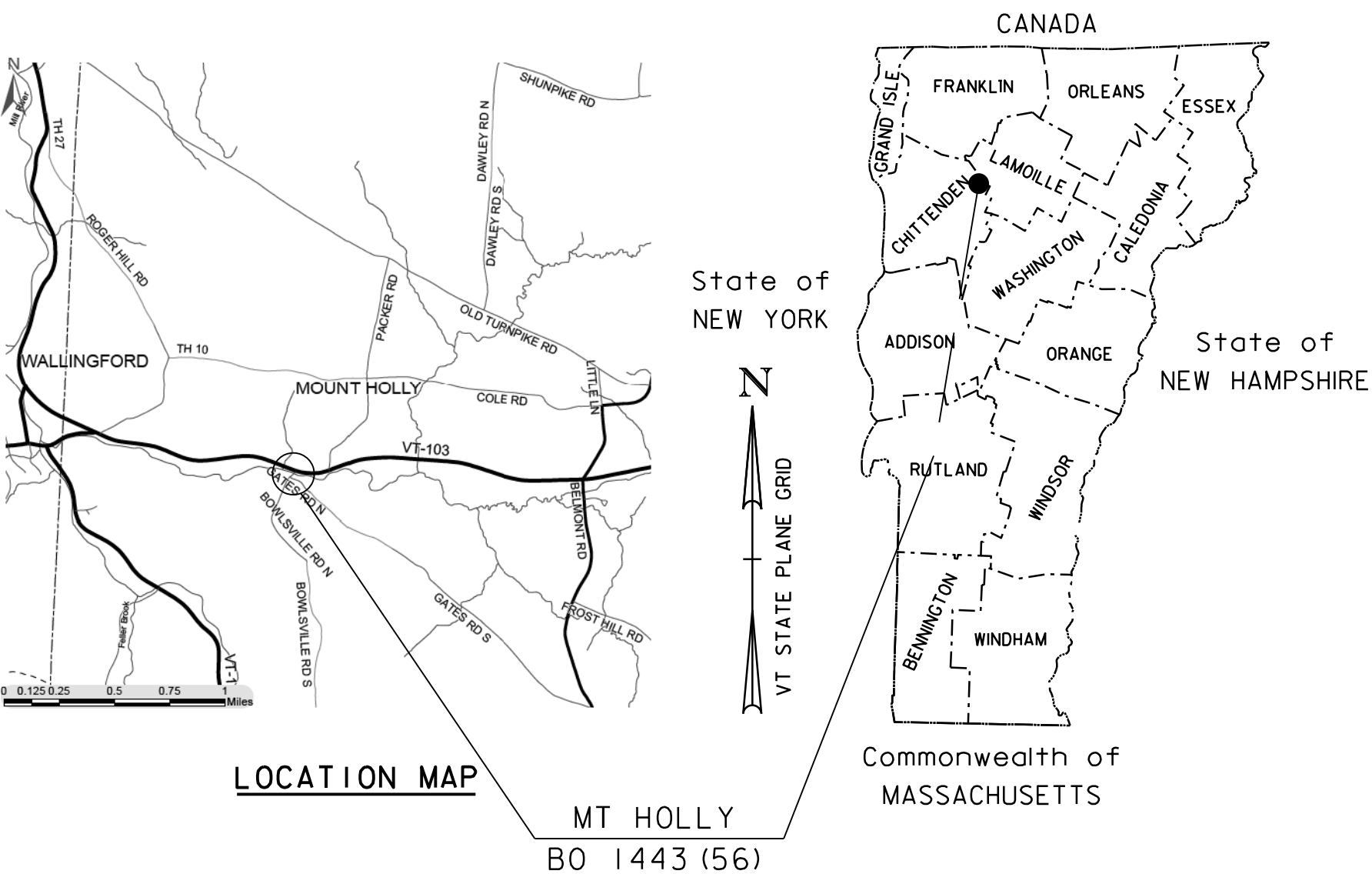
TOWN OF MT HOLLY
COUNTY OF RUTLAND

ROUTE NO : TOWN HIGHWAY 17 (NORTH BOWLSVILLE ROAD) BRIDGE NO : 64

PROJECT LOCATION : LOCATED ON NORTH BOWLSVILLE ROAD (TOWN HIGHWAY 17) OVER
THE MILL RIVER BRANCH ABOUT 50 FEET SOUTHWEST FROM THE INTERSECTION OF
BOWLSVILLE ROAD AND VT ROUTE 103.

PROJECT DESCRIPTION : NEW ALIGNMENT OF TH-17 INCLUDING THE REALIGNMENT OF TWO SIDE ROADS AND NEW
BRIDGE NO. 64 ON TH 17 (NORTH BOWLSVILLE ROAD) IN MT HOLLY, OVER MILL RIVER
BRANCH.

LENGTH OF STRUCTURE : 68.00 FEET.
LENGTH OF ROADWAY : 140.00 FEET.
LENGTH OF PROJECT : 208.00 FEET.

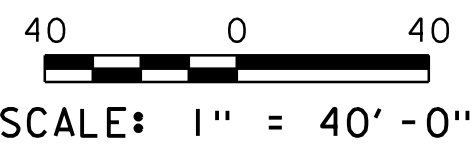


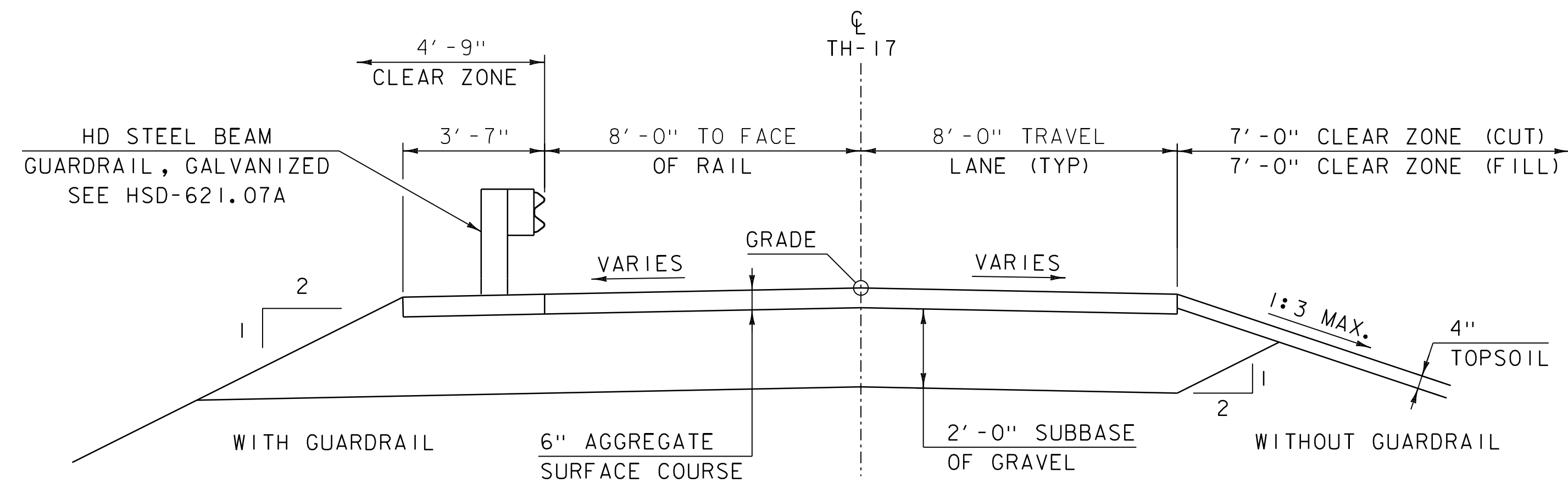
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS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

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	VTRANS
SURVEYED DATE :	6.22.2021
DATUM	NAVD 88
VERTICAL	NAD 83 (2011)
HORIZONTAL	

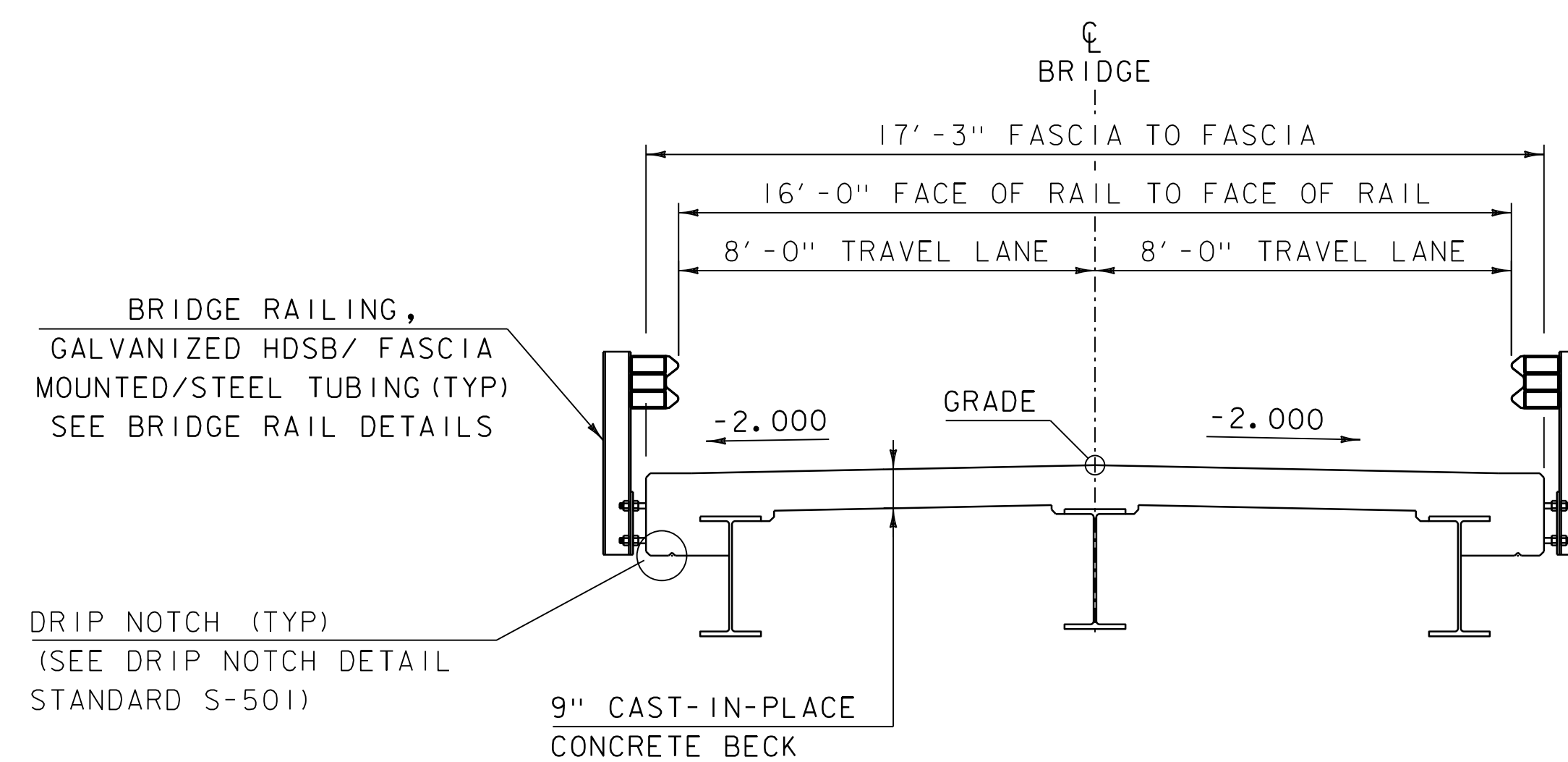
CONCEPTUAL PLANS

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : D. PETERSON	
PROJECT NAME :	MT HOLLY
PROJECT NUMBER :	BO 1443 (56)
SHEET 1 OF 14 SHEETS	





TH-17 TYPICAL SECTION
SCALE $\frac{3}{8}" = 1'-0"$



BRIDGE TYPICAL SECTION
SCALE $\frac{3}{8}" = 1'-0"$

MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- $\frac{1}{4}"$
- AGGREGATE SURFACE COURSE	+/- $\frac{1}{2}"$
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

PROJECT NAME: MT. HOLLY
PROJECT NUMBER: BO 1443(56)

FILE NAME: I2J642\sl2J642typ.dgn
PROJECT LEADER: D. PETERSON
DESIGNED BY: D. PETERSON
BRIDGE TYPICAL SECTION

PLOT DATE: 24-AUG-2023
DRAWN BY: G. ROKES
CHECKED BY: D. PETERSON
SHEET 3 OF 14

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
■	BNDNS	BOUND SET
▣	BNDNS	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 — x — x — x — BF — x — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	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 — △ — 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
▣ x ▣ x ▣ x ▣ x	SILT FENCE WOVEN WIRE
▶ —▶ —▶ —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOLOGY

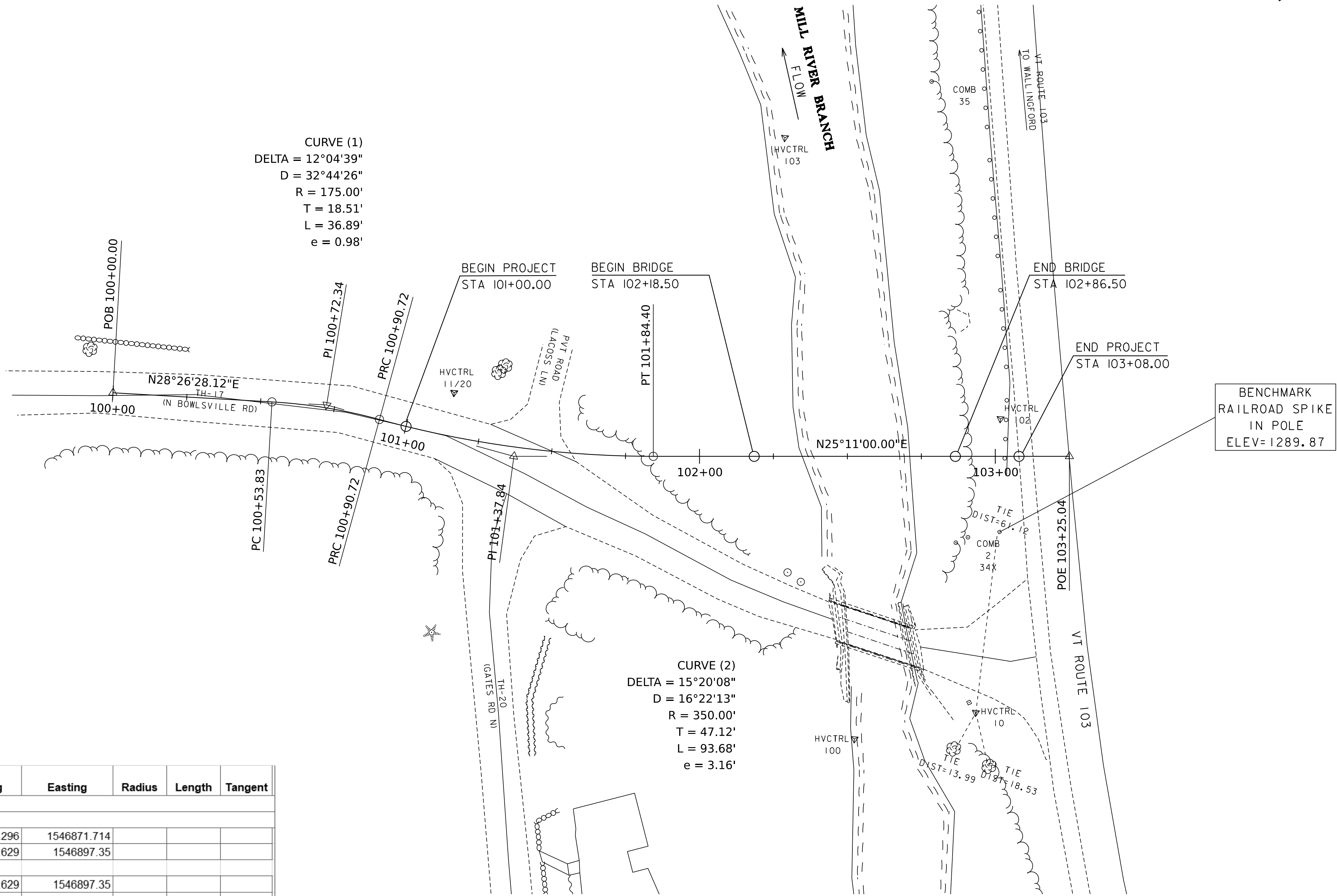
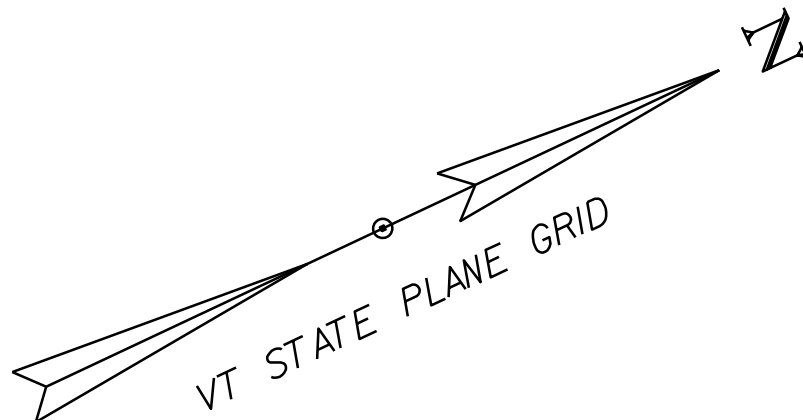
ENVIRONMENTAL RESOURCES	
——— T&E ———	WETLAND BOUNDARY
-----	RIPARIAN BUFFER ZONE
-----	WETLAND BUFFER ZONE
-----	SOIL TYPE BOUNDARY
——— T&E ———	THREATENED & ENDANGERED SPECIES
HAZ ——— HAZ ———	HAZARDOUS WASTE AREA
——— AG ———	AGRICULTURAL LAND
——— HABITAT ———	FISH & WILDLIFE HABITAT
——— FLOOD PLAIN ———	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
x — x — x — x —	FENCE (EXISTING)
▣ — ▣ — ▣ — ▣ —	FENCE WOOD POST
○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~~	GARDEN
— o — o — o — o —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
o — o — o — o — o — o —	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
=====	BODY OF WATER EDGE
=====	LEDGE EXPOSED

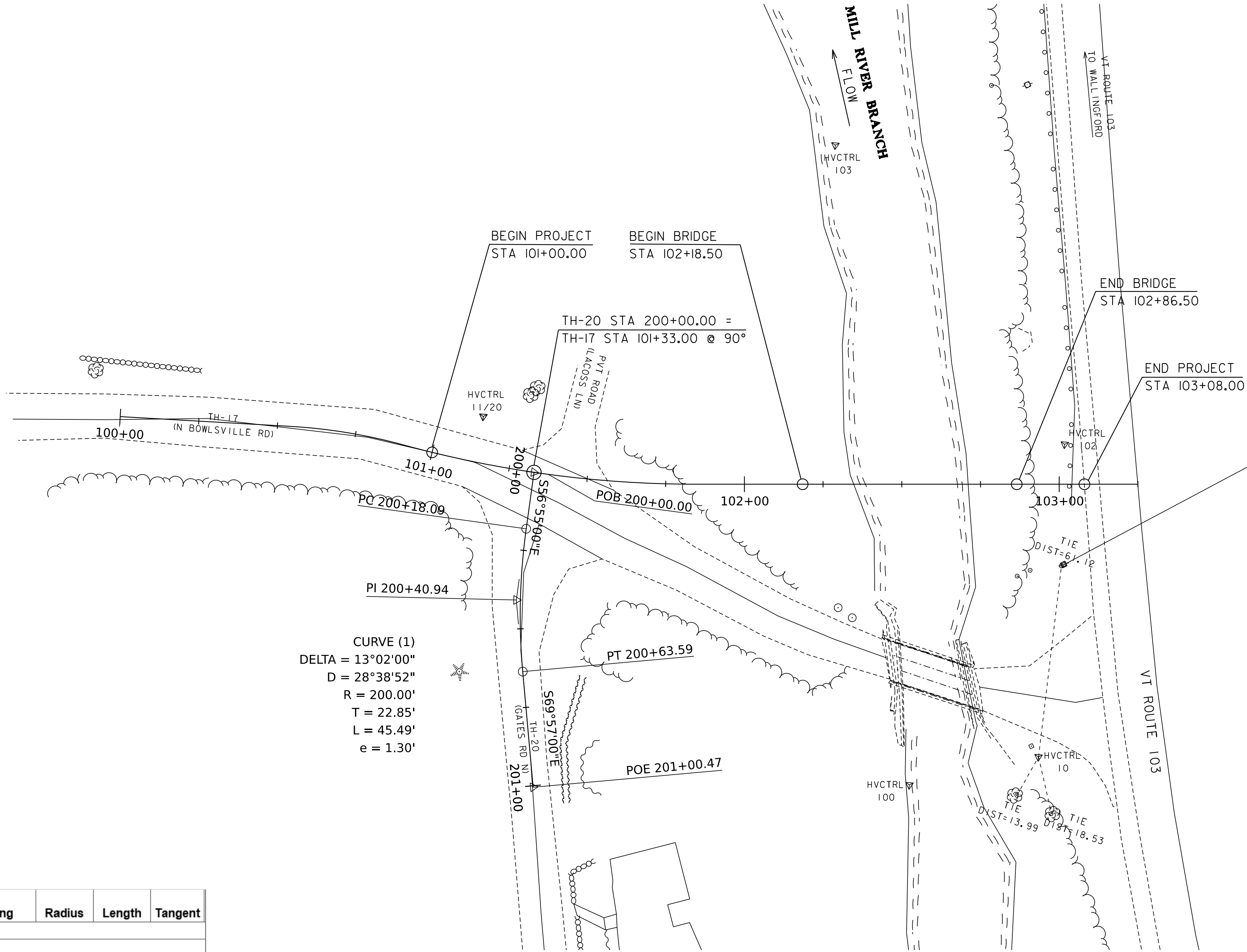
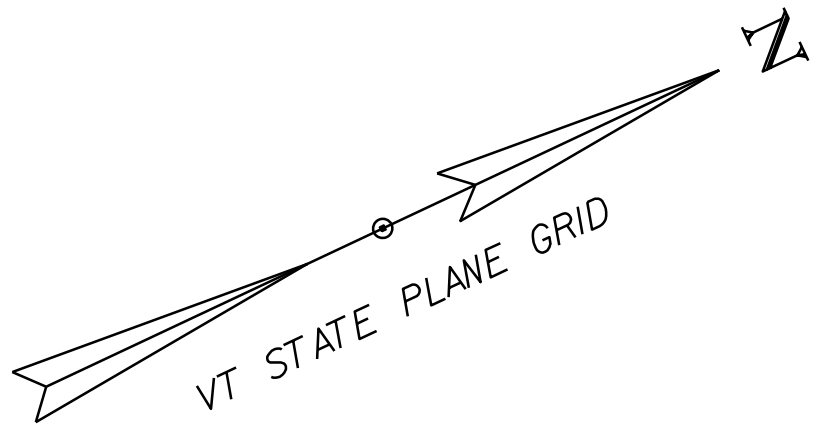
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PROJECT NUMBER:	BO 1442(56)
FILE NAME: I2J642\STR\sl2J642legend.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D.PETERSON	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: D.PETERSON
CONVENTIONAL LEGEND SHEET	SHEET 4 OF 14



Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name:		TH-17				
Description:						
POB	10000	345456.296	1546871.714			
PC	10053.83	345503.629	1546897.35			
PC	10053.83	345503.629	1546897.35			
PI	10072.343	345519.907	1546906.167	175	36.889	18.513
PRC	10090.719	345533.981	1546918.195			
PRC	10090.719	345533.981	1546918.195			
PI	10137.84	345569.802	1546948.81	350	93.679	47.121
PT	10184.398	345612.444	1546968.86			
PT	10184.398	345612.444	1546968.86			
POE	10325.035	345739.714	1547028.704			

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

PROJECT NAME: MT. HOLLY	
PROJECT NUMBER: BO 1443 (56)	
FILE NAME: s12j642TH-17 alg Layout.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D.PETERSON	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: D.PETERSON
TH-17 ALIGNMENT	SHEET 5 OF 14



CURVE (1)  
DELTA = 13°02'00"  
D = 28°38'52"  
R = 200.00'  
T = 22.85'  
L = 45.49'  
e = 1.30'

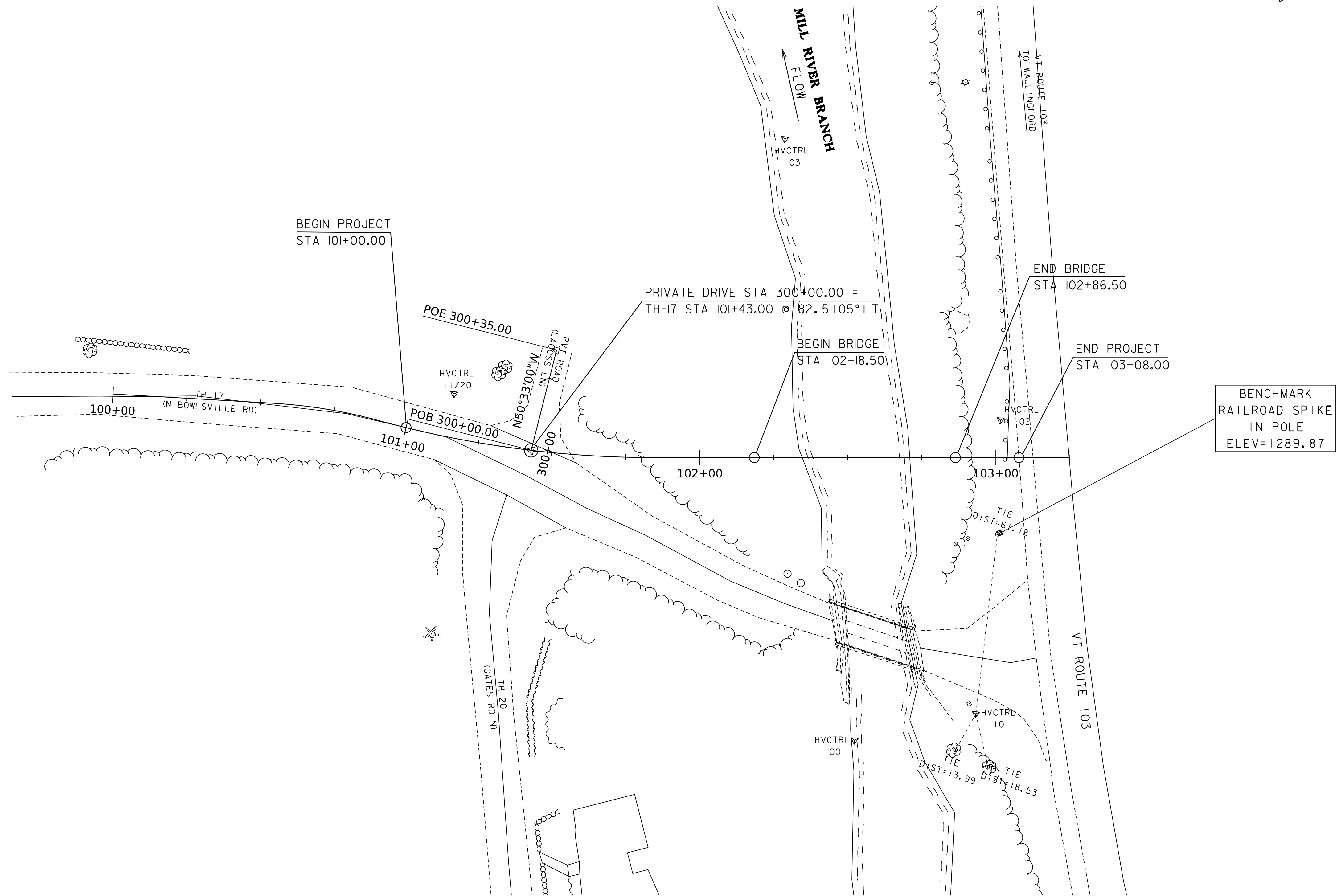
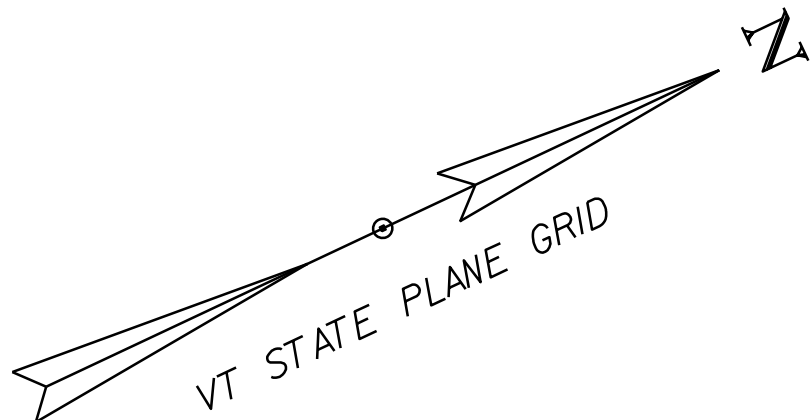
SCALE 1" = 20'-0"  
20 0 20

Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name:		TH-20				
Description:						
POB	20000	345567.703	1546943.66			
PC	20018.093	345557.827	1546958.82			
PC	20018.093	345557.827	1546958.82			
PI	20040.94	345545.356	1546977.963	200	45.495	22.846
PT	20063.588	345537.523	1546999.424			
PT	20063.588	345537.523	1546999.424			
POE	20100.467	345524.88	1547034.067			

PROJECT NAME: MT. HOLLY  
PROJECT NUMBER: BO 1443 (56)

FILE NAME: sl2j642TH-20 alg Layout.dgn  
PROJECT LEADER: D.PETERSON  
DESIGNED BY: G.ROKES  
TH-20 ALIGNMENT

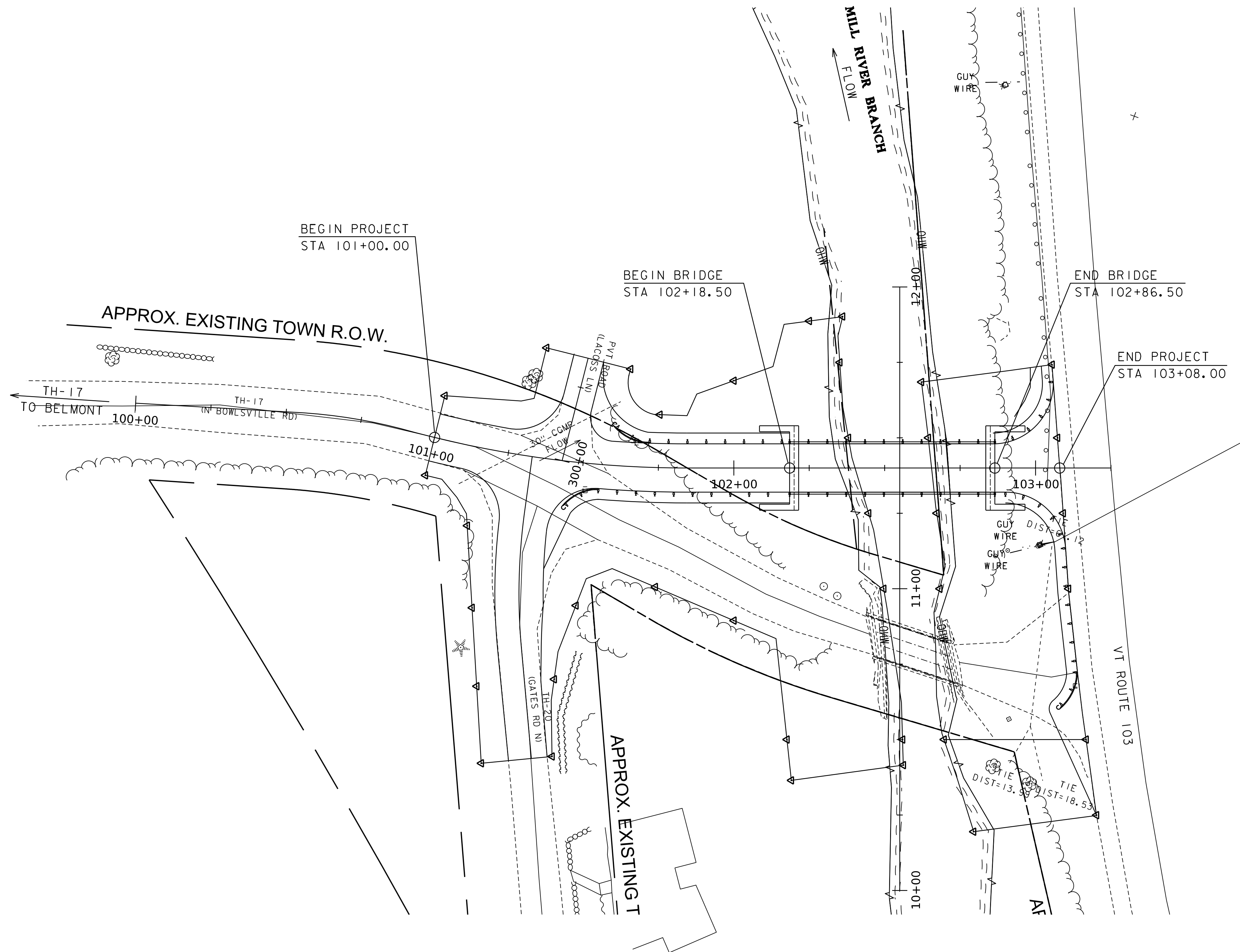
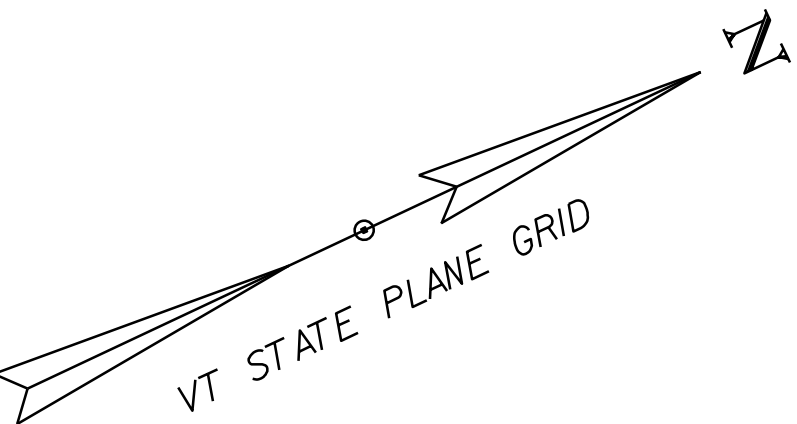
PLOT DATE: 24-AUG-2023  
DRAWN BY: G.ROKES  
CHECKED BY: D.PETERSON  
SHEET 6 OF 14



Point Type	Station	Northing	Easting	Radius	Length	Tangent
Alignment Name:		Private Drive				
Description:						
POB	30000	345576.107	1546949.072			
POE	30035	345598.347	1546922.046			

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

PROJECT NAME: MT. HOLLY	
PROJECT NUMBER: BO 1443 (56)	
FILE NAME: s12j642Private Drive alg.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D.PETERSON	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: D.PETERSON
PRIVATE DRIVE ALIGNMENT	SHEET 7 OF 14



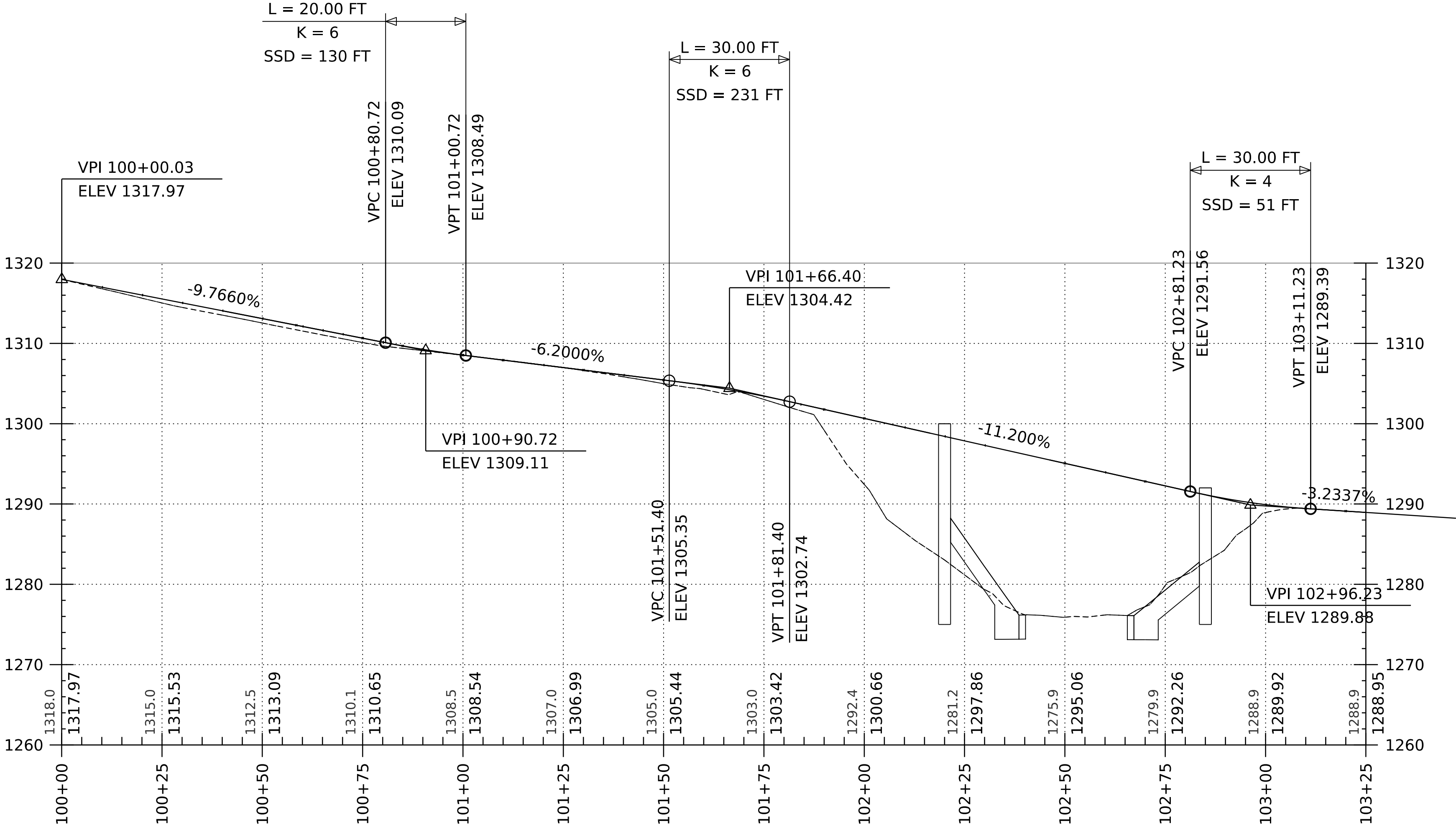
EXISTING BRIDGE INFORMATION  
BUILT 1934  
SINGLE SPAN ROLLED STEEL BEAM  
CONCRETE DECK W/ WIRE RAIL

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

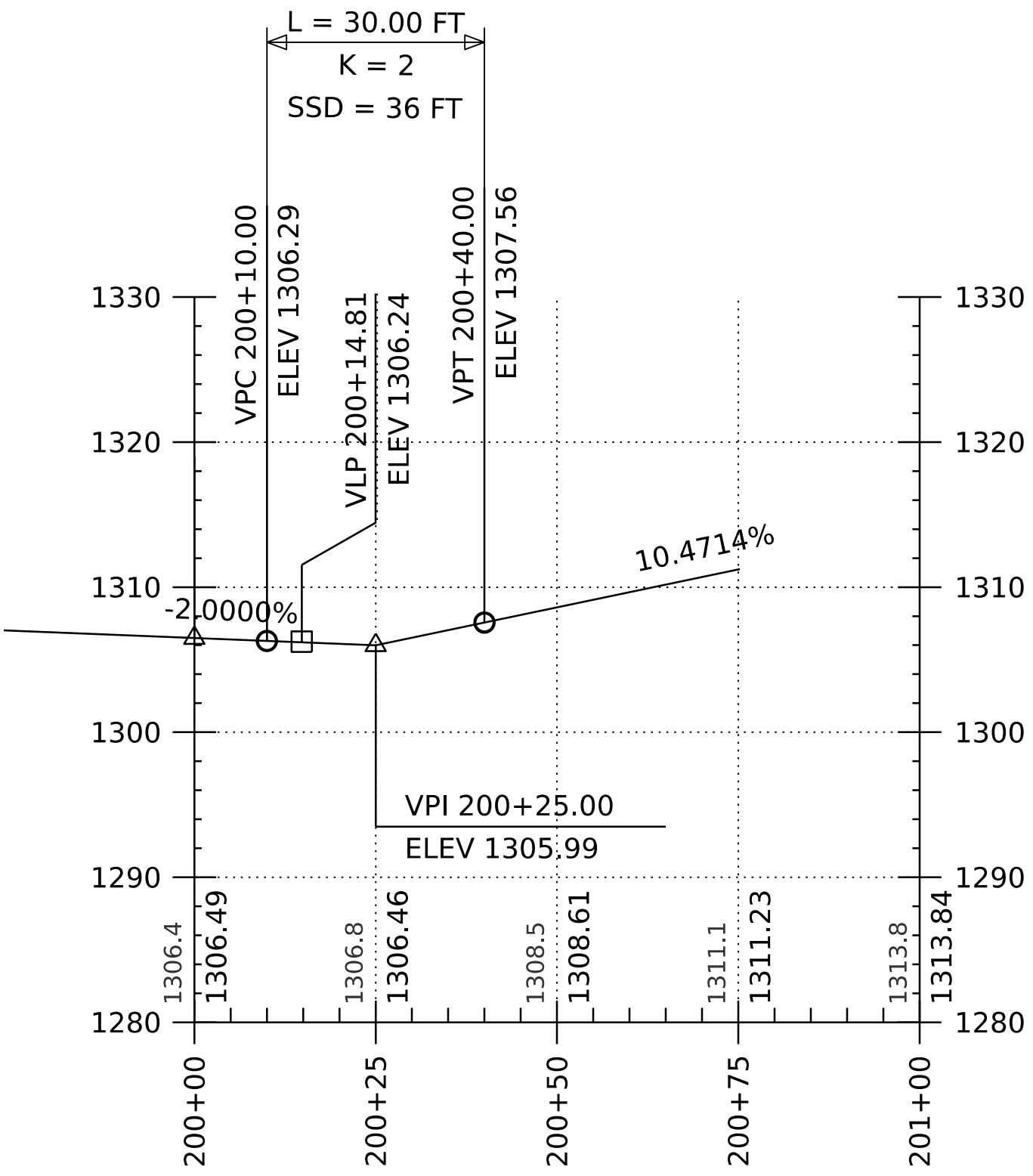
PROJECT NAME: MT. HOLLY  
PROJECT NUMBER: BO 1443 (56)

FILE NAME: sl2j642bdr.dgn  
PROJECT LEADER: D.PETERSON  
DESIGNED BY: G.ROKES  
LAYOUT

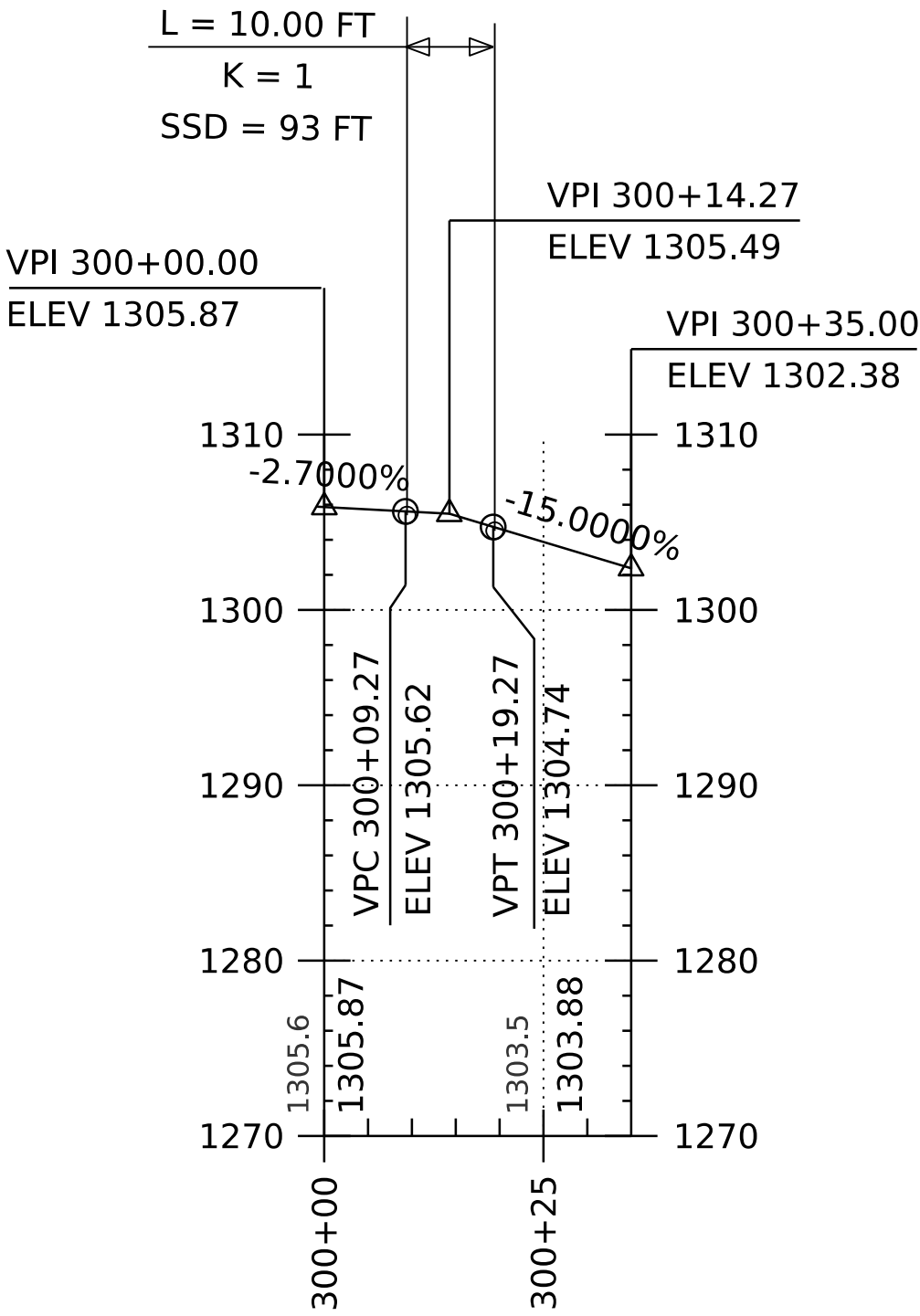
PLOT DATE: 24-AUG-2023  
DRAWN BY: G.ROKES  
CHECKED BY: D.PETERSON  
SHEET 8 OF 14



TH-17 MAINLINE PROFILE

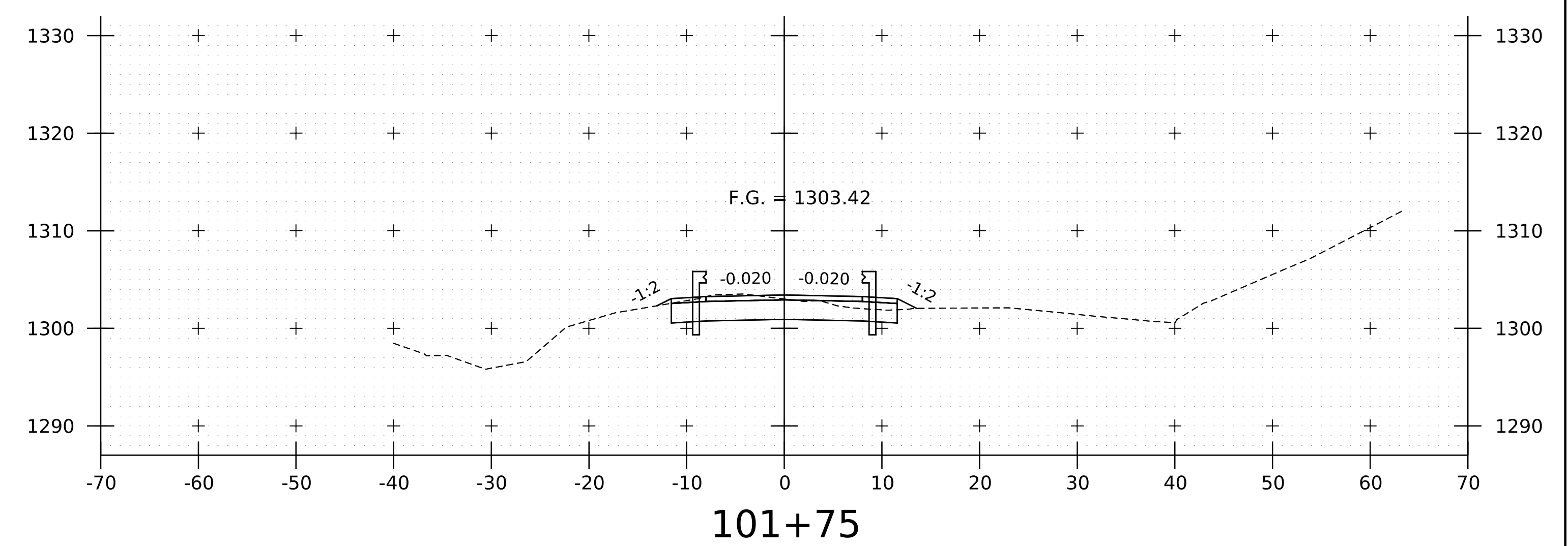
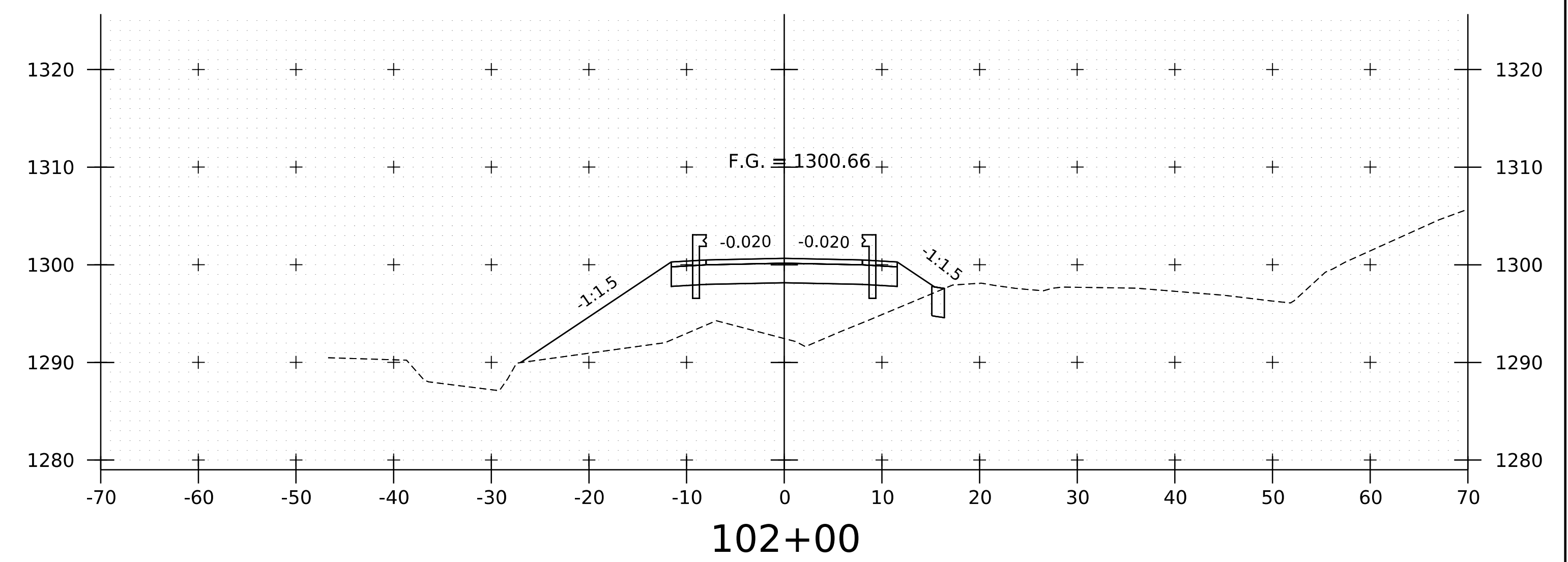
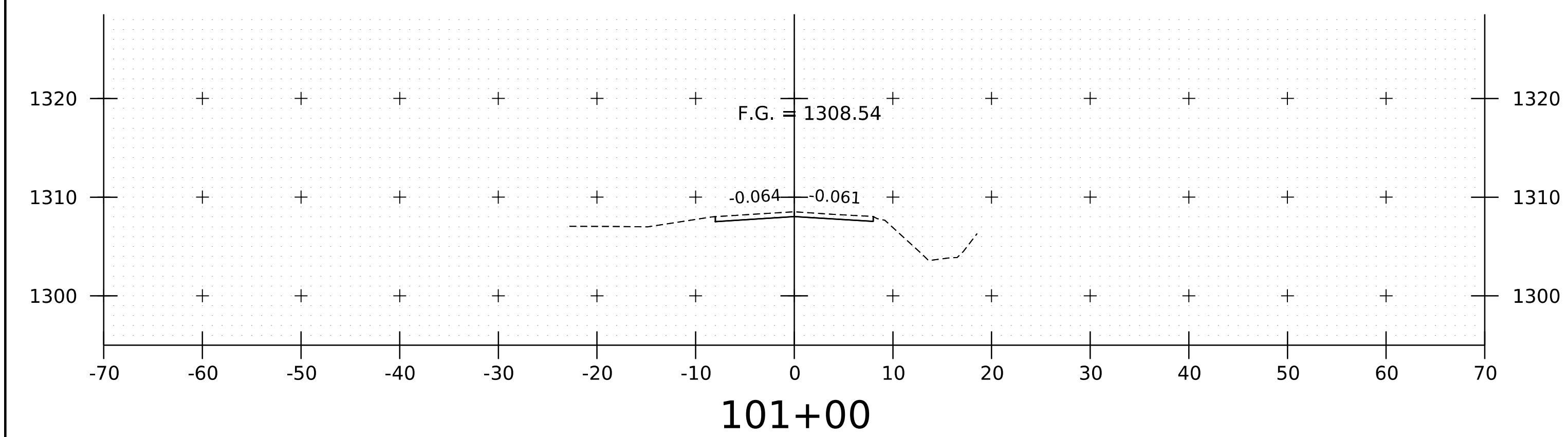
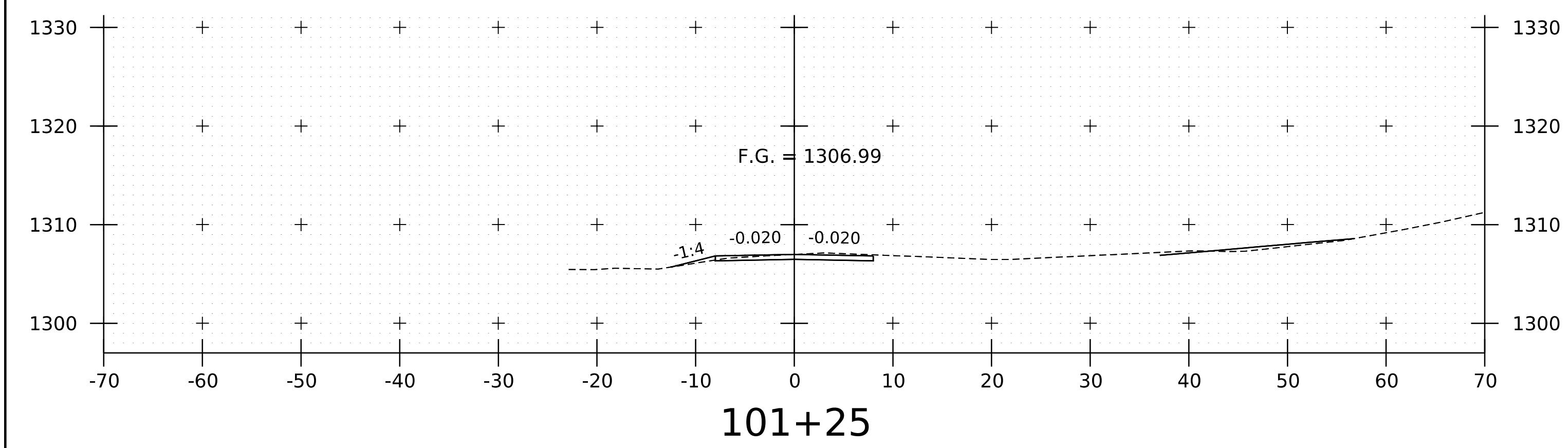
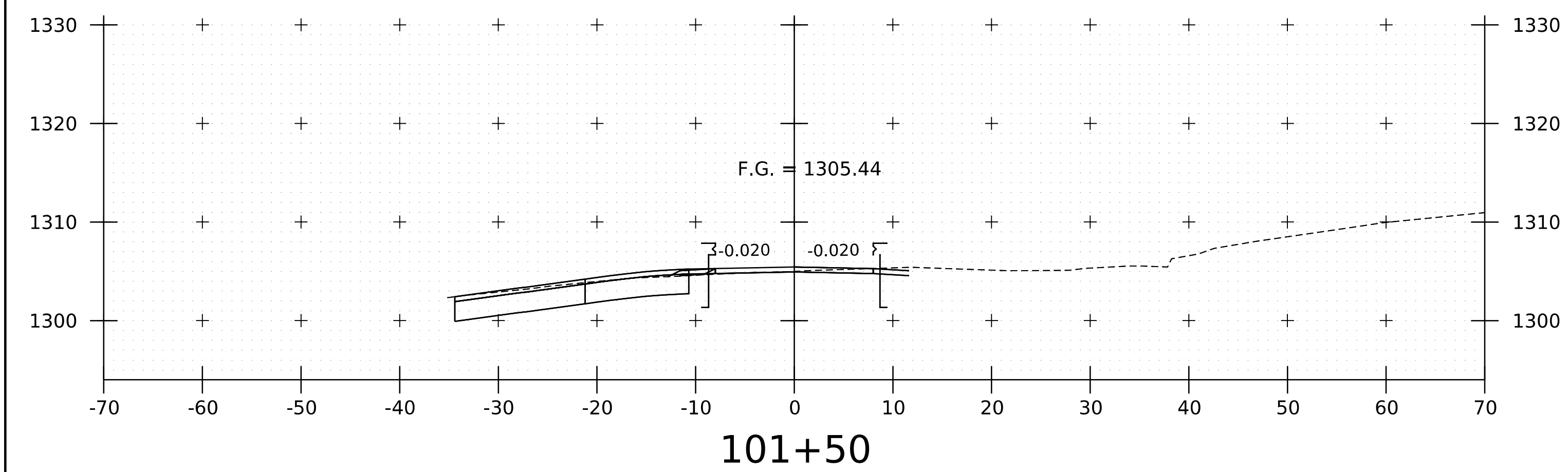


TH-20 PROFILE

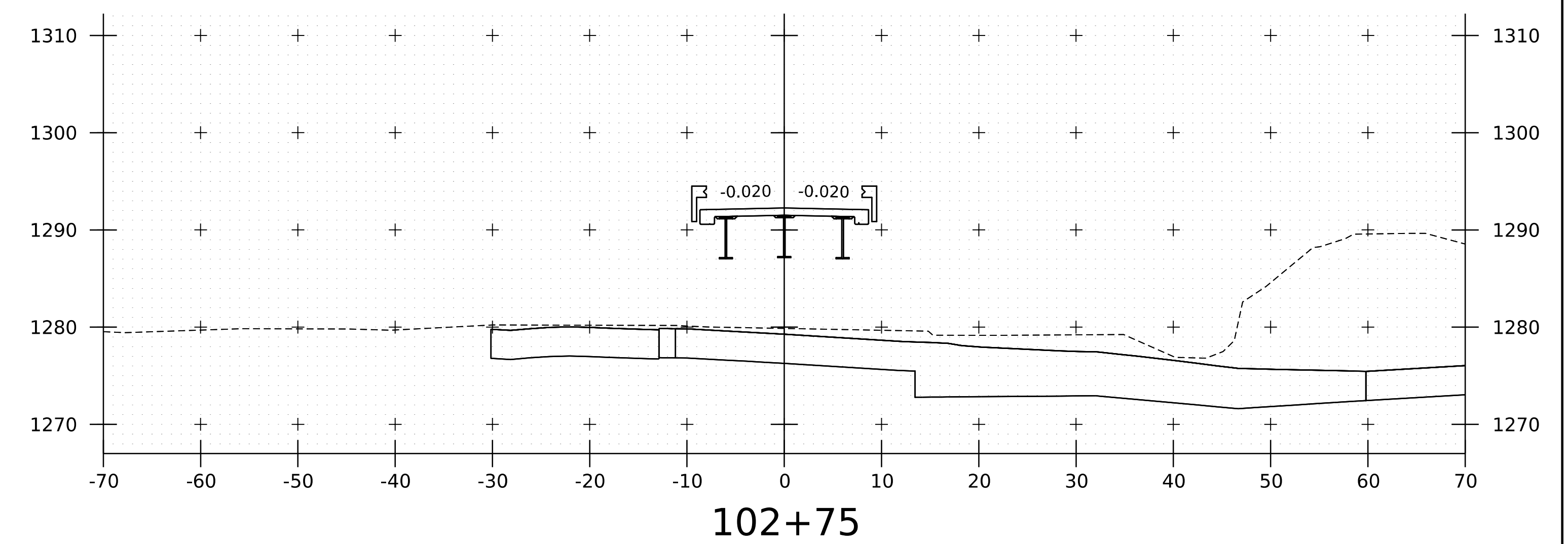
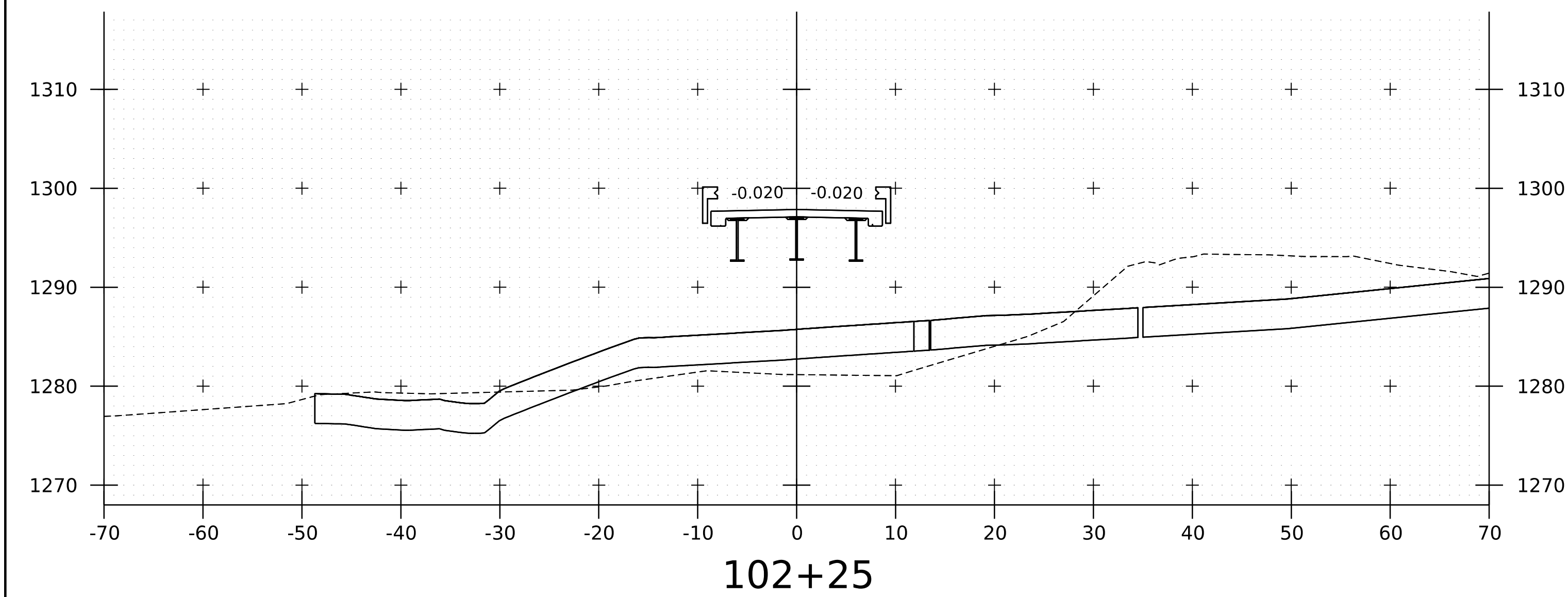
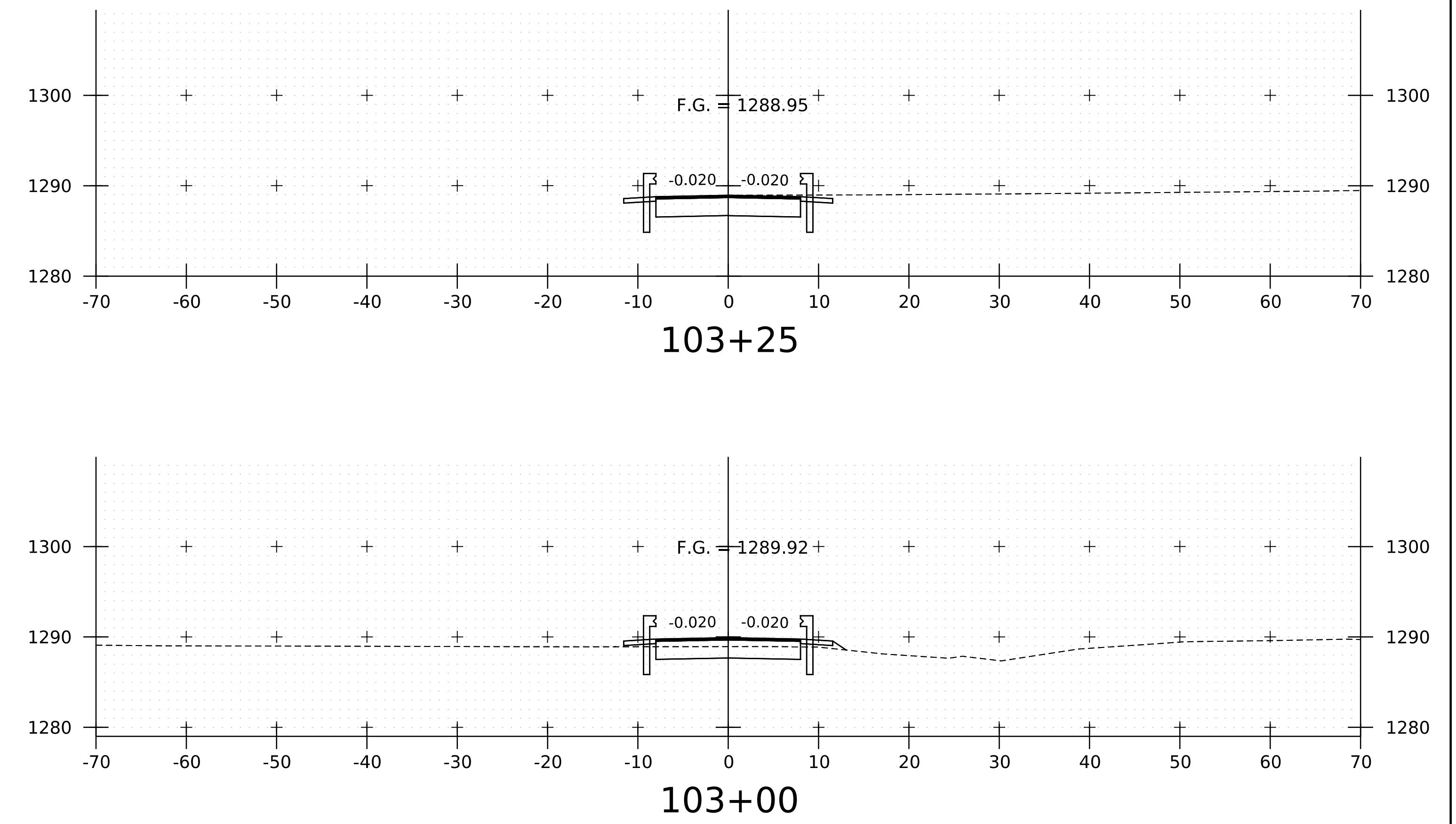
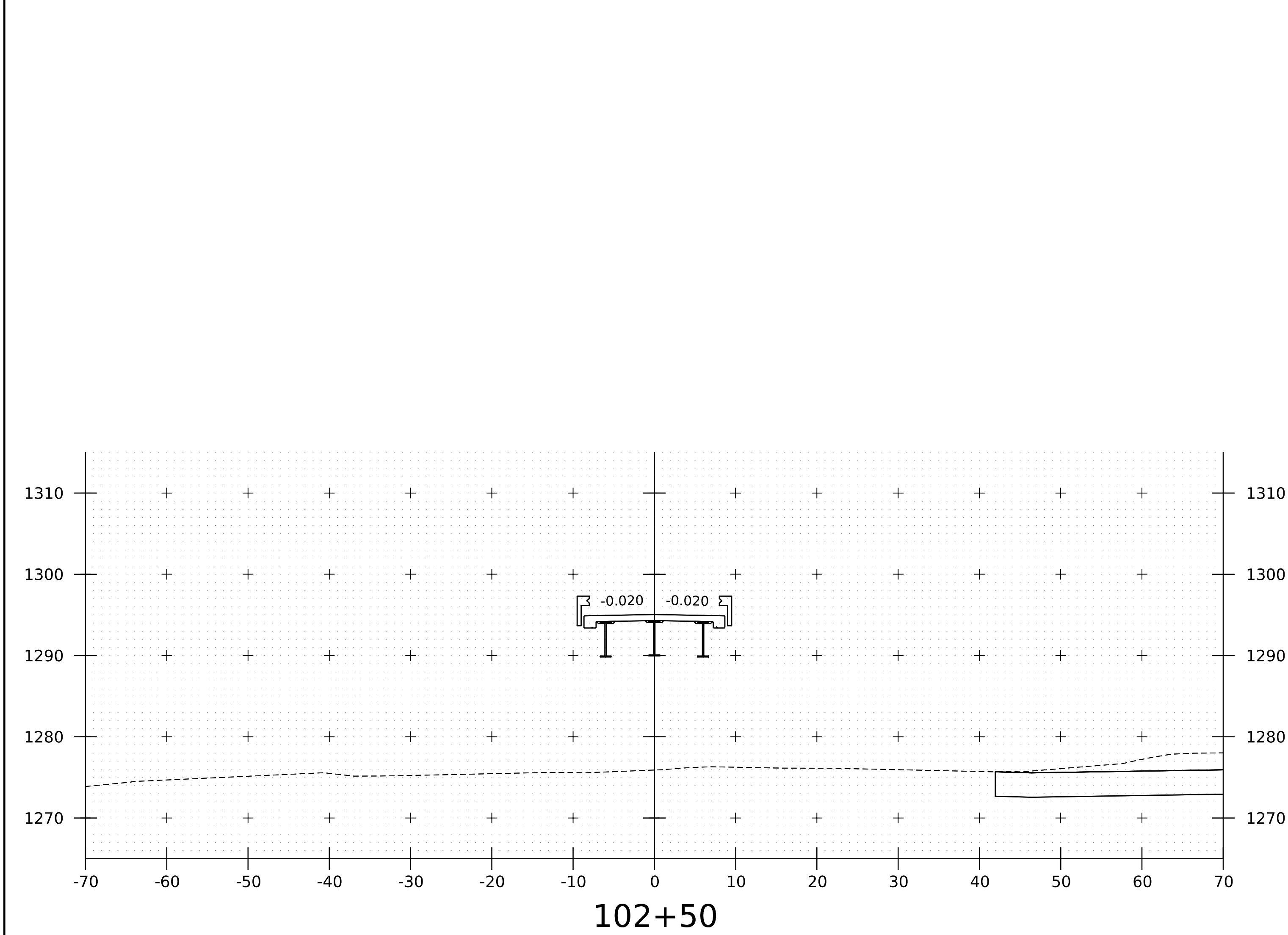


PRIVATE DRIVE PROFILE

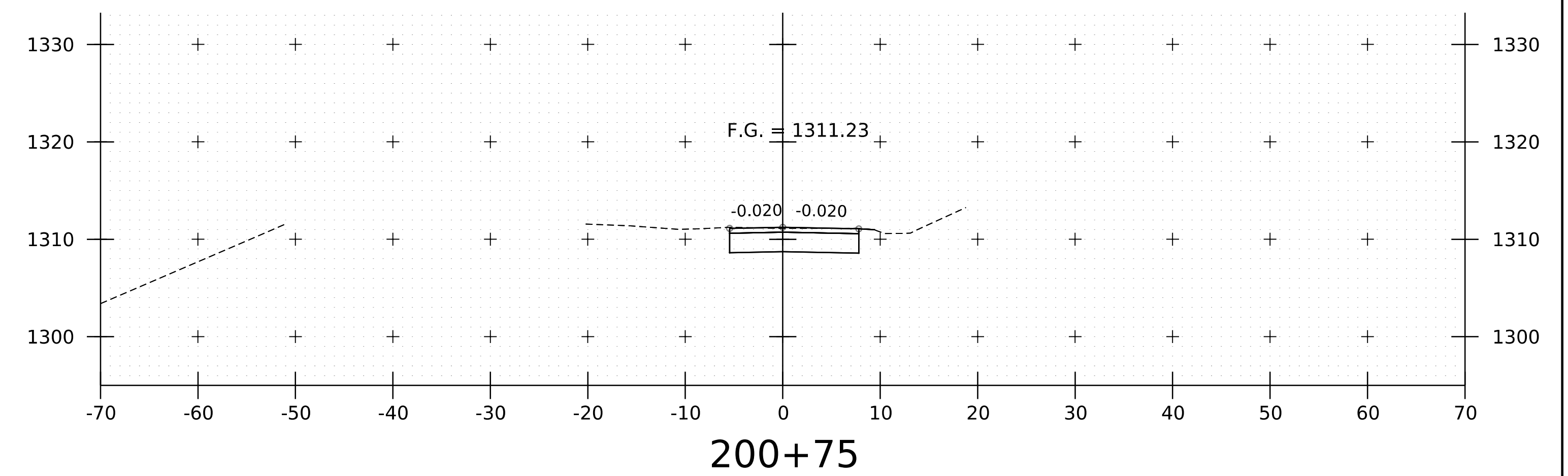
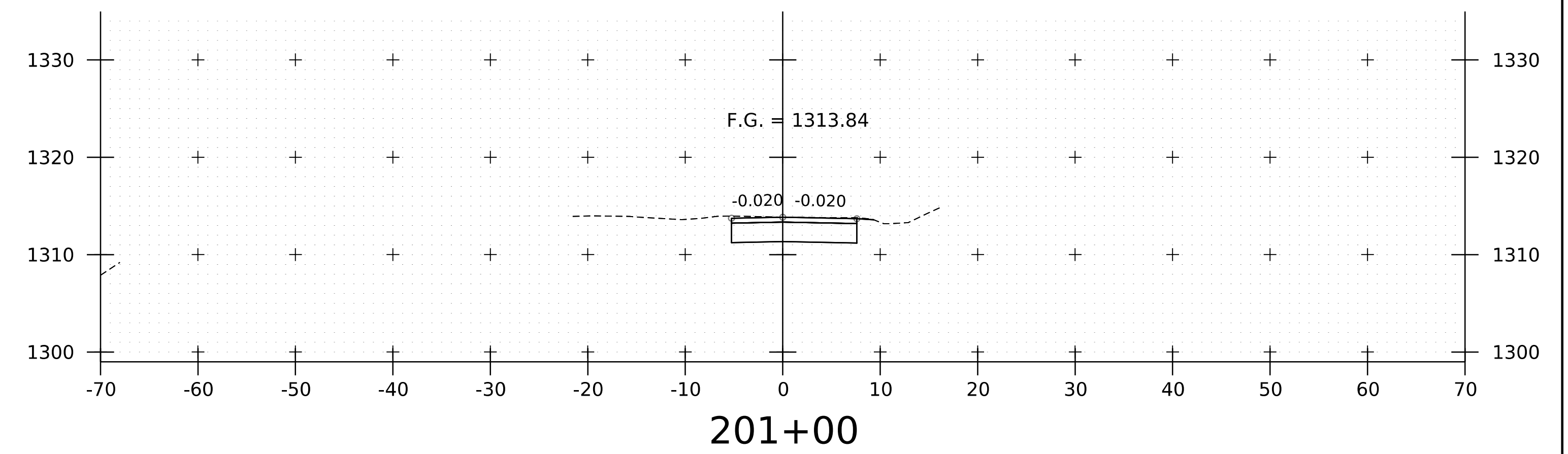
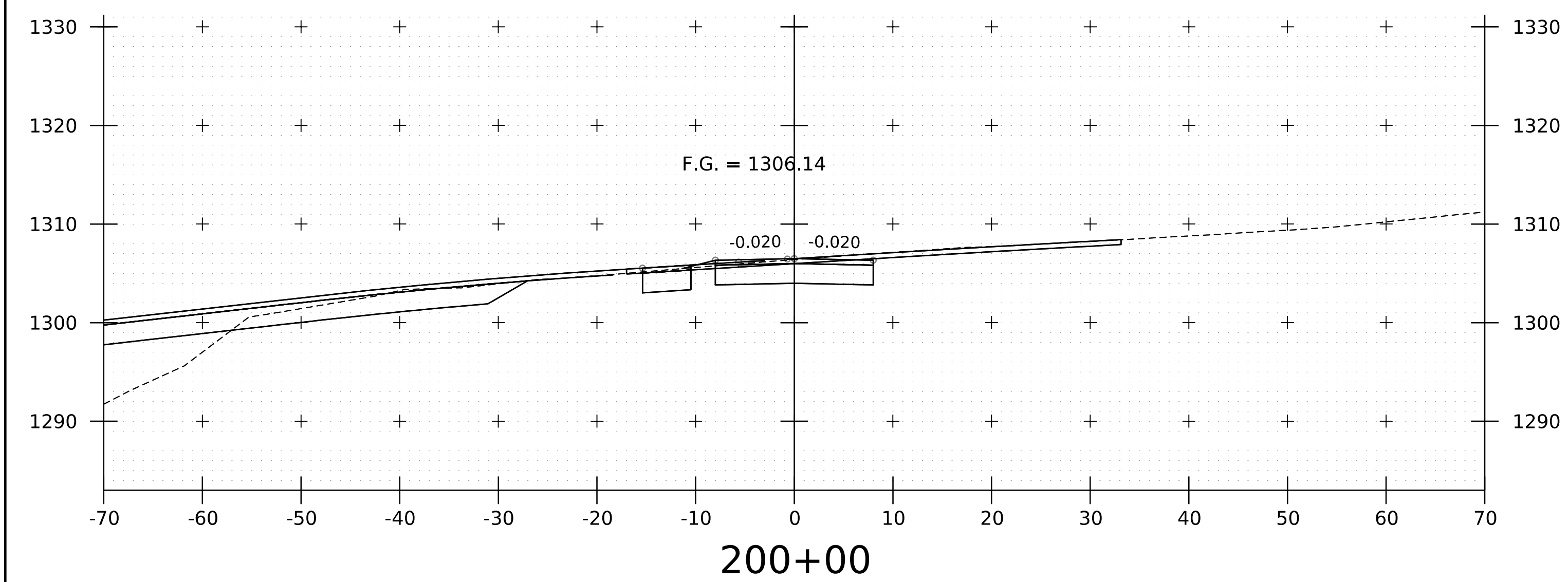
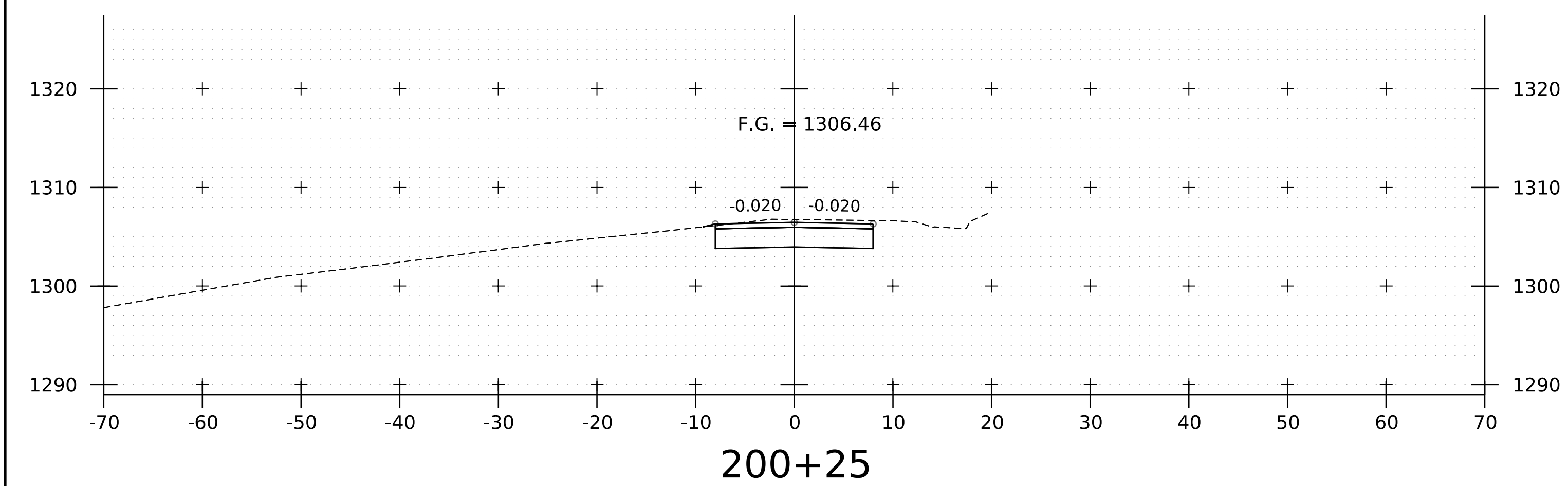
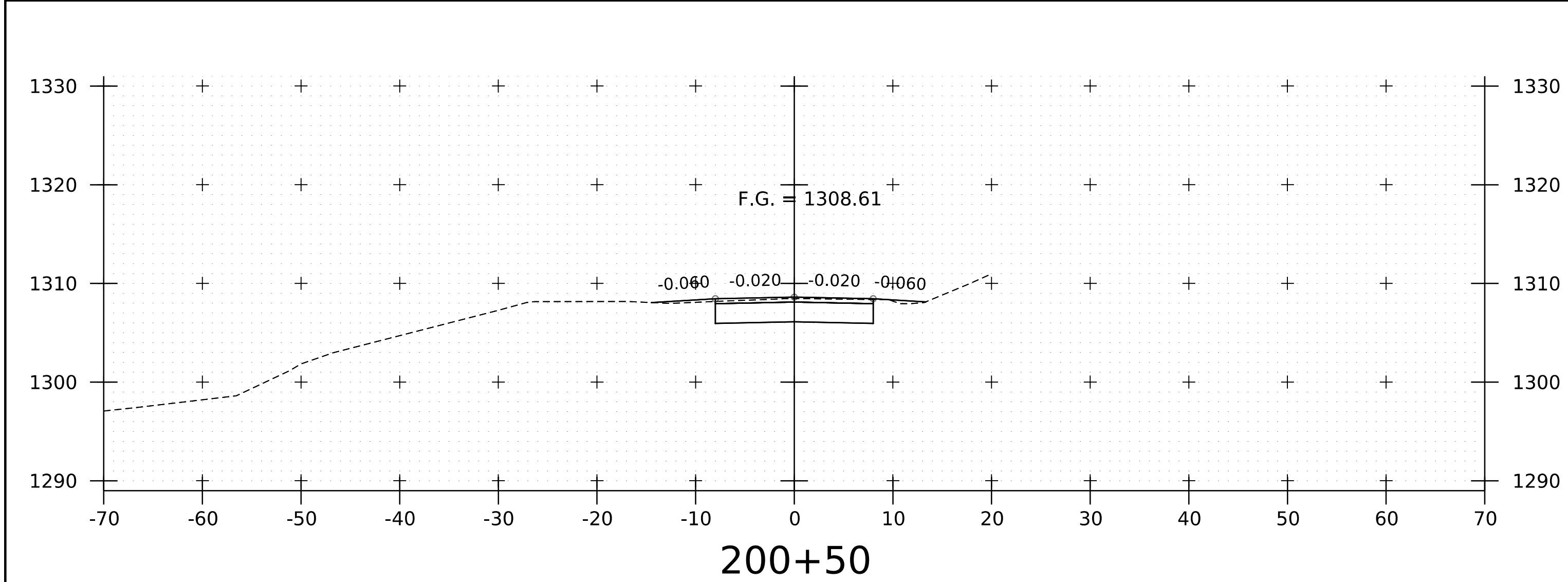
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PROJECT NUMBER: BO 1443 (56)	
FILE NAME: sl2j642Profile.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D.PETERSON	DRAWN BY: G.ROKES
DESIGNED BY: G.ROKES	CHECKED BY: D.PETERSON
PROFILE PROFILES	SHEET 9 OF 14



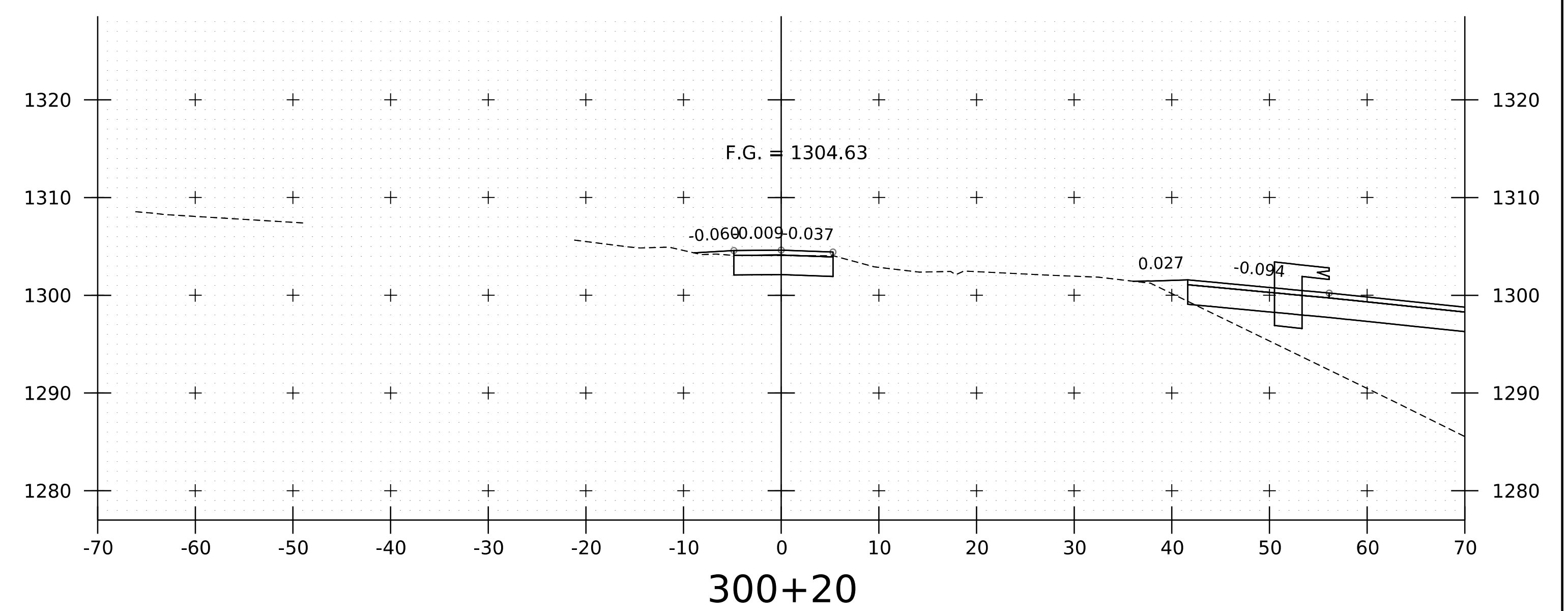
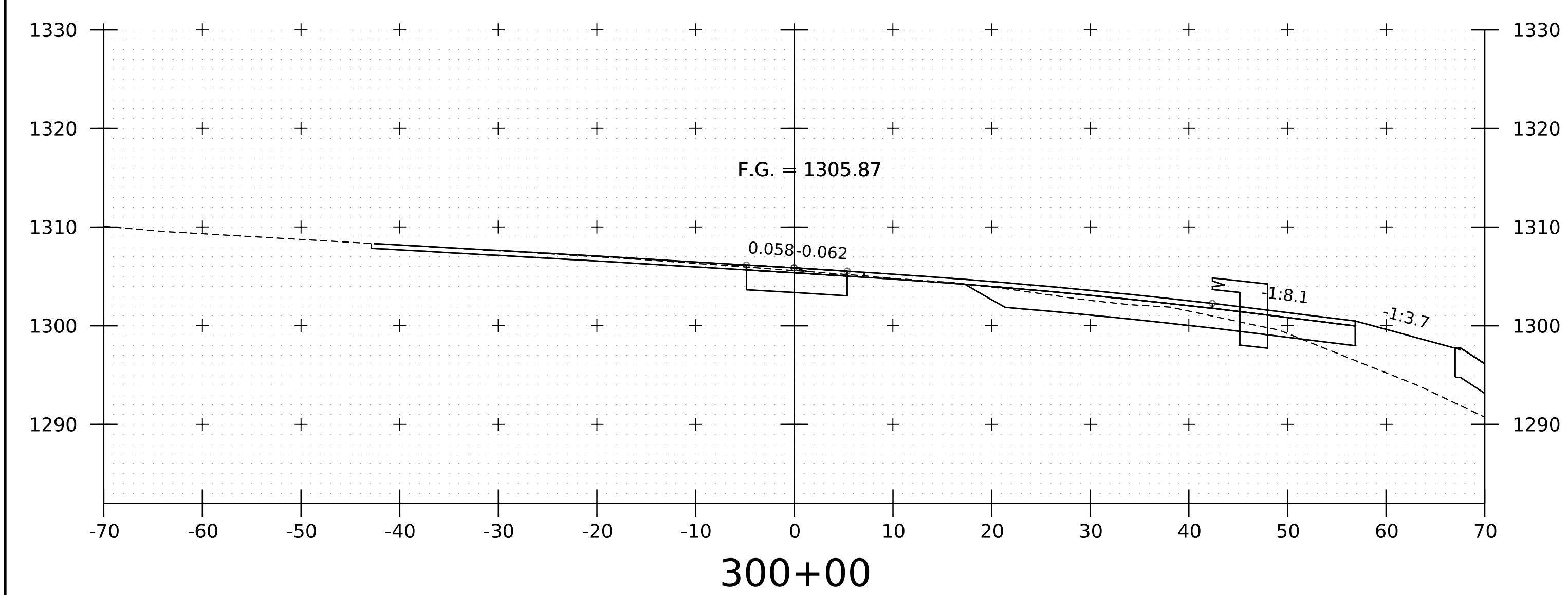
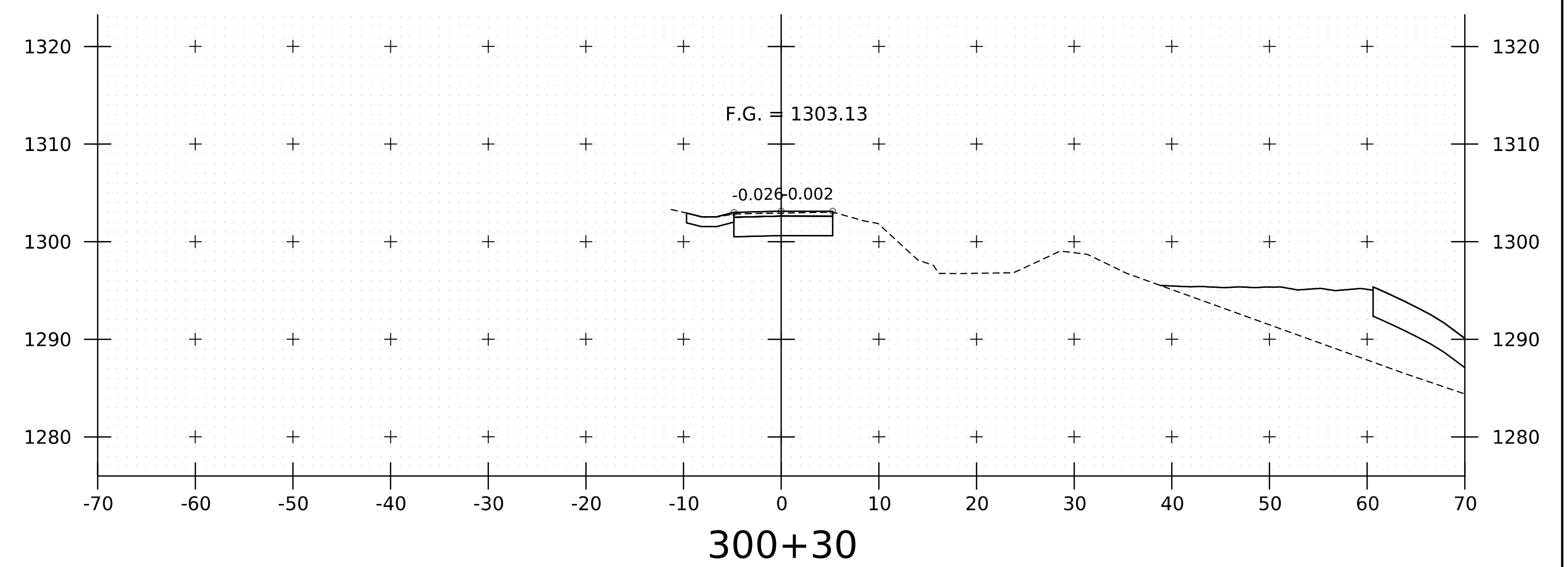
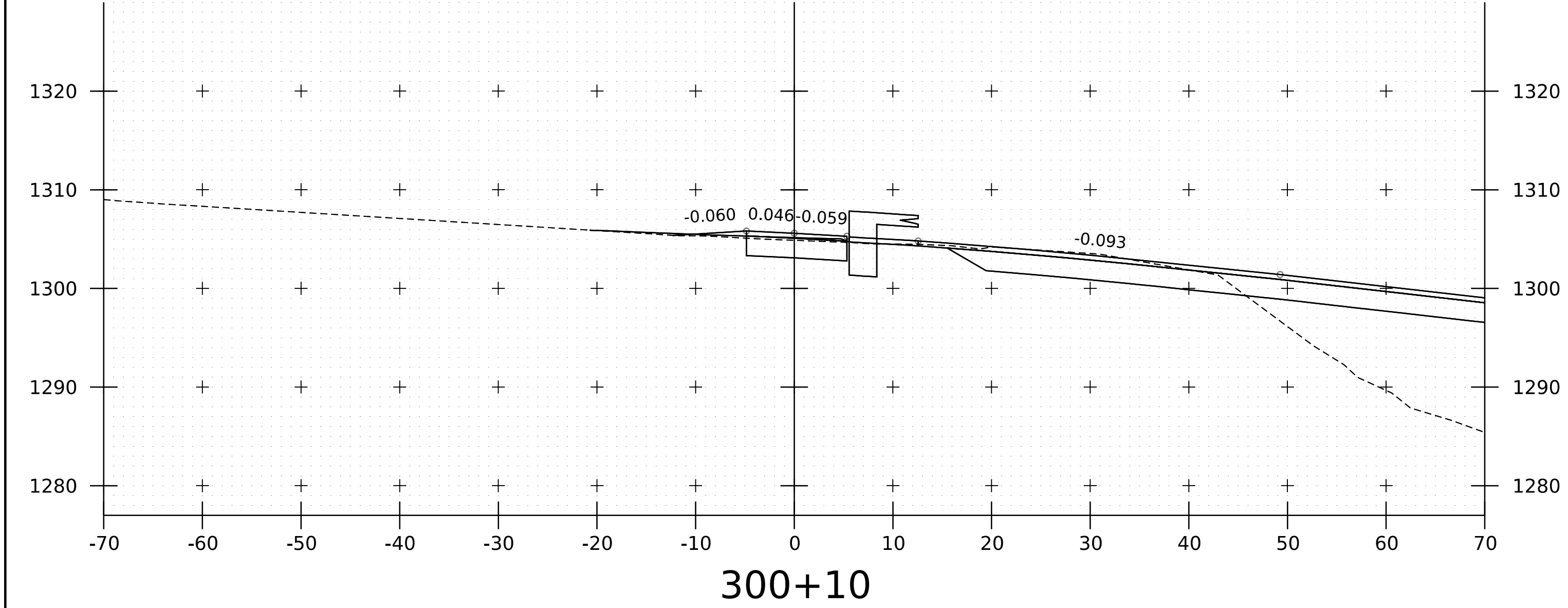
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PROJECT NUMBER: BO 1443(56)	
FILE NAME: I2J642\STR\sl2J642xs.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D. PETERSON	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: D. PETERSON
TH-17 SECTIONS SHEET 1	SHEET 10 OF 14



PROJECT NAME: MT. HOLLY	
PROJECT NUMBER: BO 1442(56)	
FILE NAME: I2J642\STR\sl2J642xs.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D. PETERSON	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: D. PETERSON
TH-17 SECTIONS SHEET 2	SHEET II OF 14



PROJECT NAME:	MT. HOLLY	PLOT DATE:	24-AUG-2023
PROJECT NUMBER:	BO 1442(56)	DRAWN BY:	G. ROKES
FILE NAME:	I2J642\STR\sl2J642xs.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	D. PETERSON	SHEET	12 OF 14
DESIGNED BY:	G. ROKES		
TH-20 SECTIONS			



PROJECT NAME: MT. HOLLY	
PROJECT NUMBER: BO 1442(56)	
FILE NAME: I2J642\STR\sl2J642xs.dgn	PLOT DATE: 24-AUG-2023
PROJECT LEADER: D. PETERSON	DRAWN BY: G. ROKES
DESIGNED BY: G. ROKES	CHECKED BY: D. PETERSON
PRIVATE DRIVE SECTIONS	SHEET 13 OF 14

