

# STATE OF VERMONT AGENCY OF TRANSPORTATION



## PROPOSED IMPROVEMENT BRIDGE PROJECT

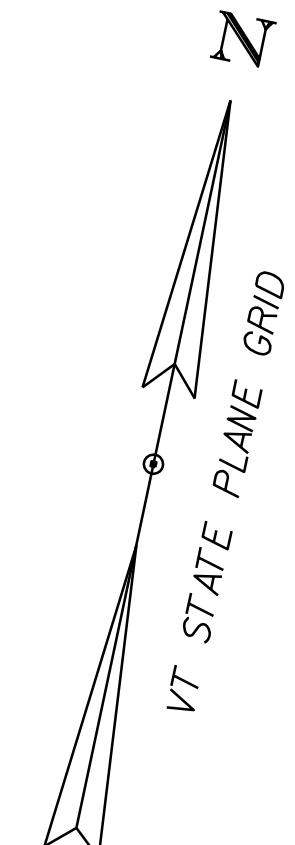
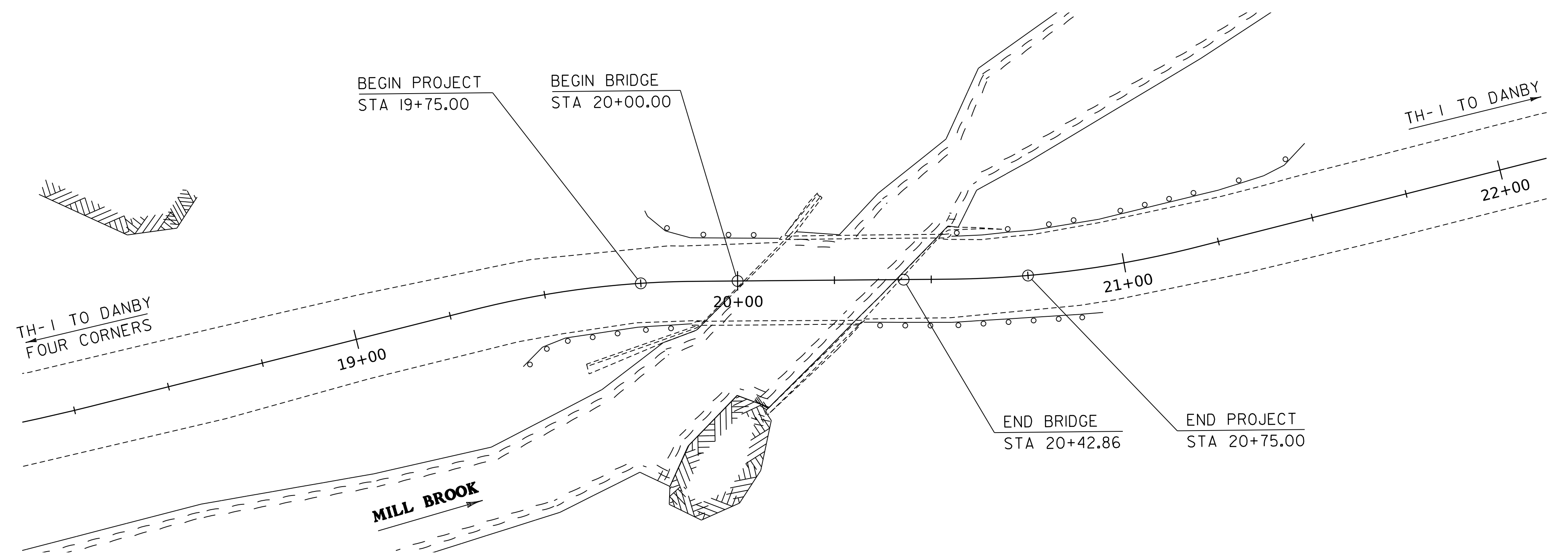
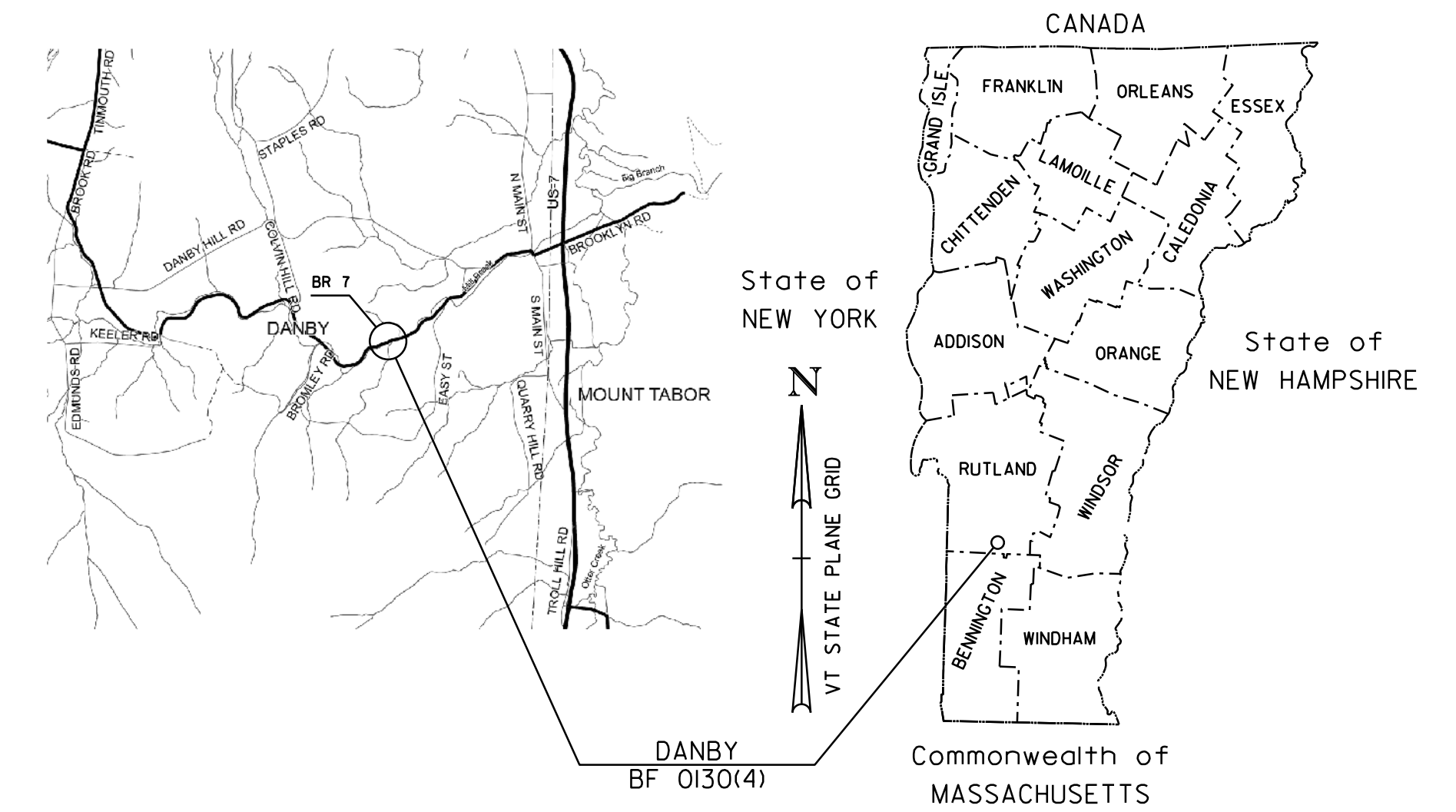
TOWN OF DANBY  
COUNTY OF RUTLAND

ROUTE NO : TOWN HIGHWAY I, MAJOR COLLECTOR, (FAS ROUTE 0130)      BRIDGE NO : 7

PROJECT LOCATION : LOCATED APPROXIMATELY 1.0 MILES WEST OF THE JUNCTION WITH SOUTH MAIN ST, CROSSING THE MILL BROOK.

PROJECT DESCRIPTION : WORK TO BE PERFORMED INCLUDES SUPERSTRUCTURE REPLACEMENT AND RELATED ROADWAY APPROACH WORK.

LENGTH OF STRUCTURE:    42.86 FEET  
LENGTH OF ROADWAY:    57.14 FEET  
LENGTH OF PROJECT:    100.00 FEET

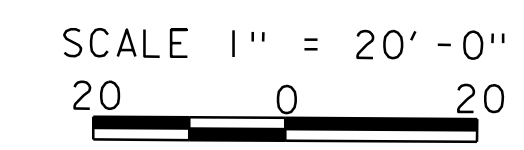


CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS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

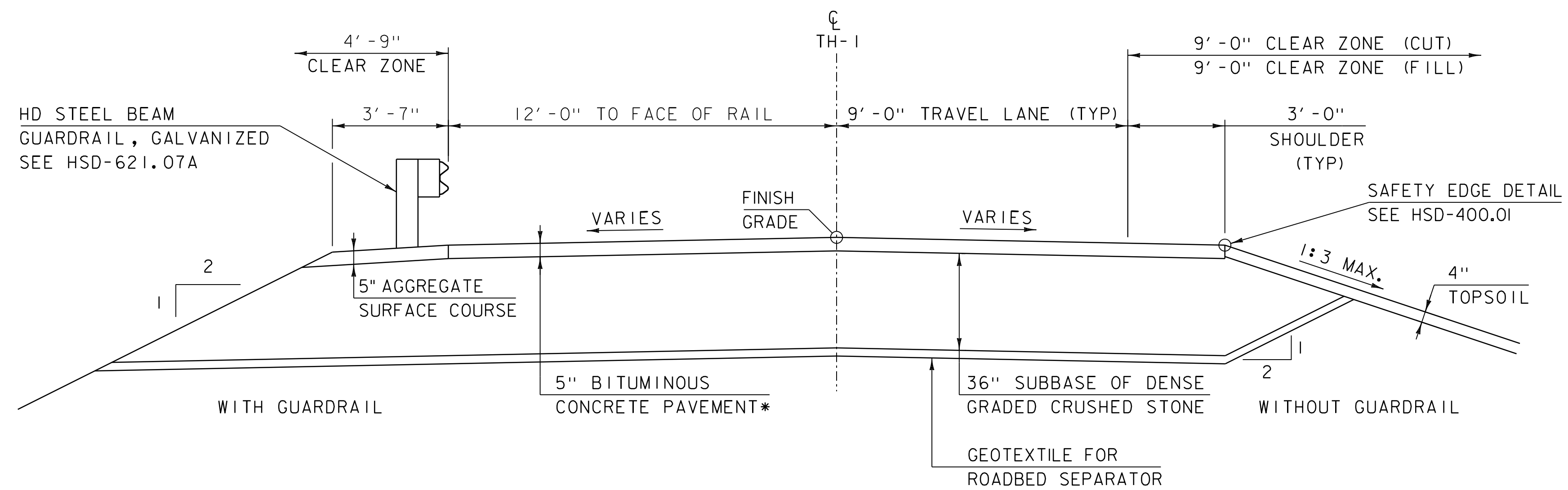
QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	DUBOIS & KING
SURVEYED DATE :	06-23-2021
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83(2011)

### CONCEPTUAL PLANS 24-MAR-2023

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER :	ADAM GOUDREAU, P.E.
PROJECT NAME :	DANBY
PROJECT NUMBER :	BF 0130(4)
SHEET 1 OF 17 SHEETS	



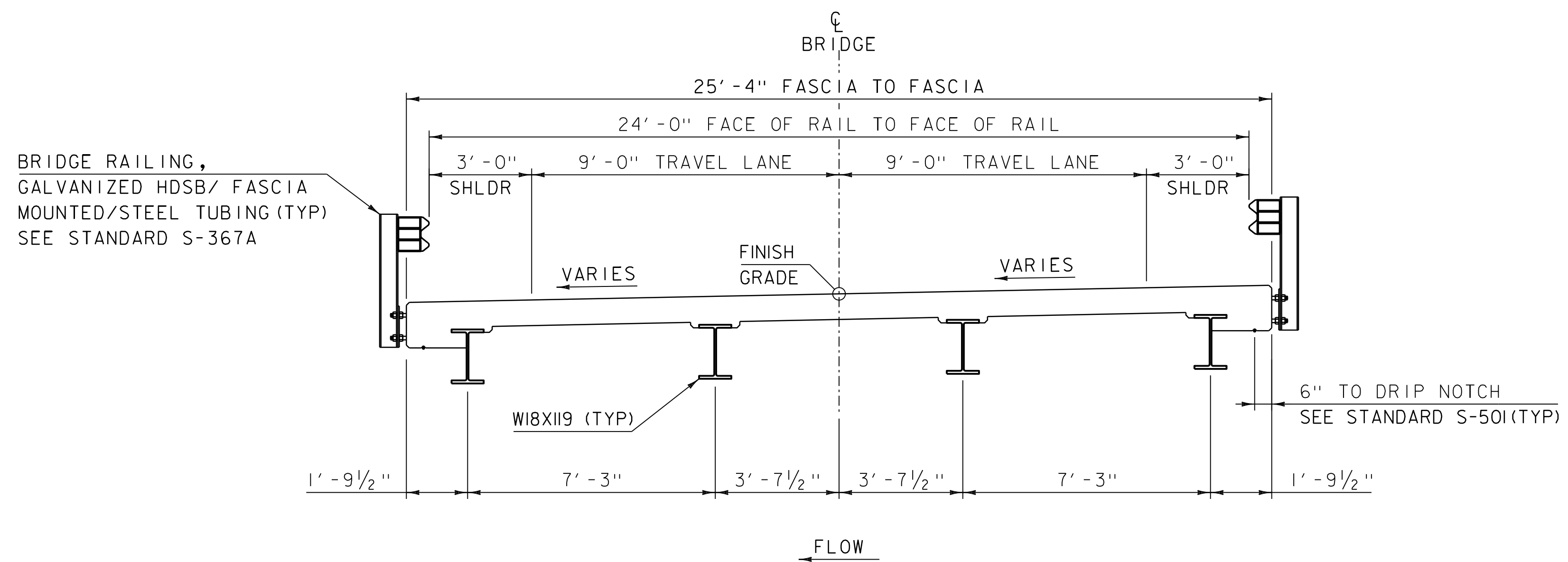




**PROPOSED TH-1 TYPICAL SECTION**

SCALE 3/8" = 1'-0"

\*(2) 1/2" LIFTS TYPE IVS OVER  
(1) 2" LIFT TYPE IIIS



**PROPOSED BRIDGE TYPICAL SECTION**

SCALE 3/8" = 1'-0"

**MATERIAL TOLERANCES**  
(IF USED ON PROJECT)

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

PROJECT NAME: DANBY  
PROJECT NUMBER: BF 0130(4)

FILE NAME: sl2j618typ.dgn  
PROJECT LEADER: A. GOUDREAU  
DESIGNED BY: R. HOOD  
TYPICAL SECTIONS

PLOT DATE: 24-MAR-2023  
DRAWN BY: R. HOOD  
CHECKED BY: A. LEMIEUX  
SHEET 3 OF 17

**GENERAL INFORMATION**

**SYMBOLGY LEGEND NOTE**

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY 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. SYMBOLGY 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 SYMBOLGY**

**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 SYMBOLGY**

**PROJECT DESIGN & LAYOUT SYMBOLGY**

— — — — 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 SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN BOUNDARY LINE
—————	COUNTY BOUNDARY 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	PROPERTY LINE (P/L)
SR — SR — SR	SLOPE RIGHTS
6f — 6f —	6F PROPERTY BOUNDARY
4f — 4f —	4F PROPERTY BOUNDARY
HAZ — HAZ —	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**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 SYMBOLGY

**ENVIRONMENTAL RESOURCES**

— — — — —	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
(H)	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

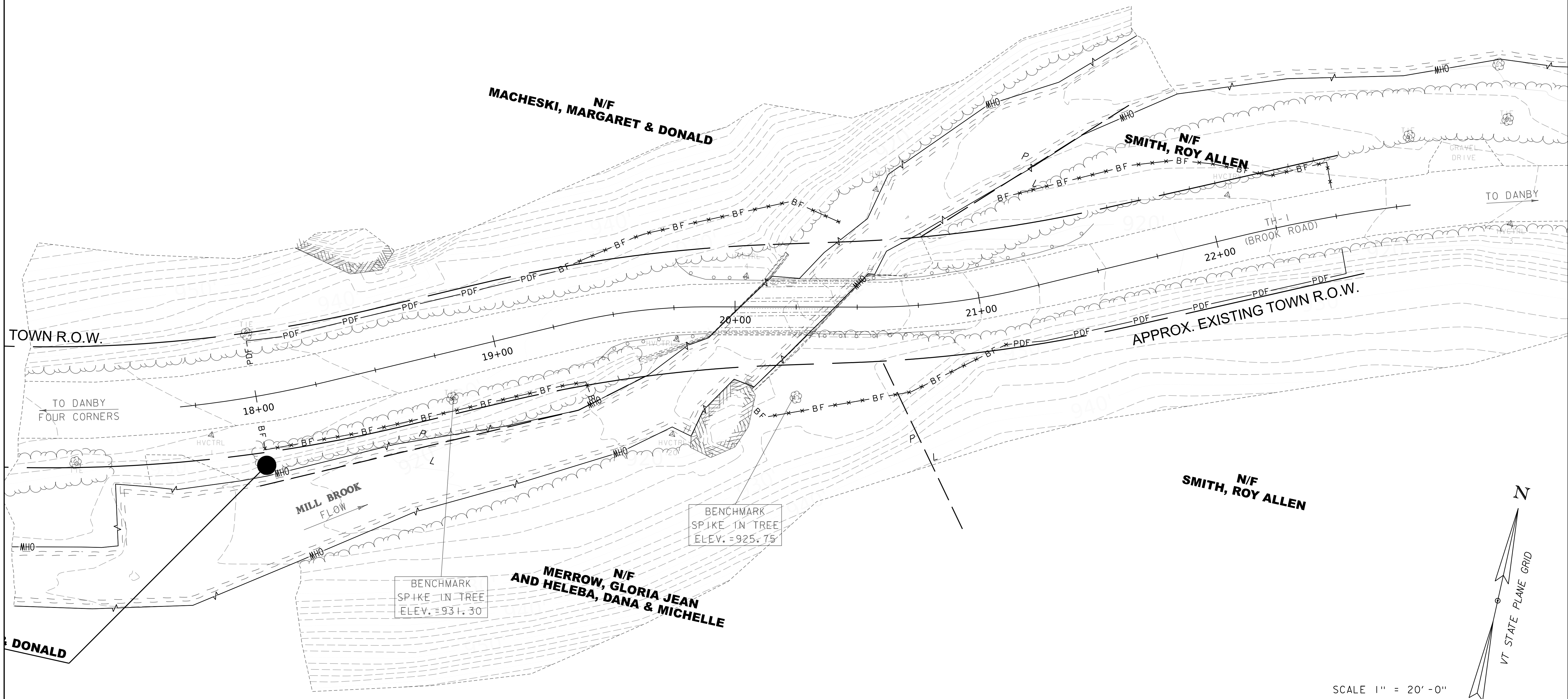
**EXISTING FEATURES**

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

PROJECT NAME: DANBY  
PROJECT NUMBER: BF 0130(4)

FILE NAME: sl2j618legend.dgn PLOT DATE: 24-MAR-2023  
PROJECT LEADER: A. GOUDREAU DRAWN BY: R. HOOD  
DESIGNED BY: R. HOOD CHECKED BY: A. LEMIEUX  
LEGEND SHEET SHEET 4 OF 17

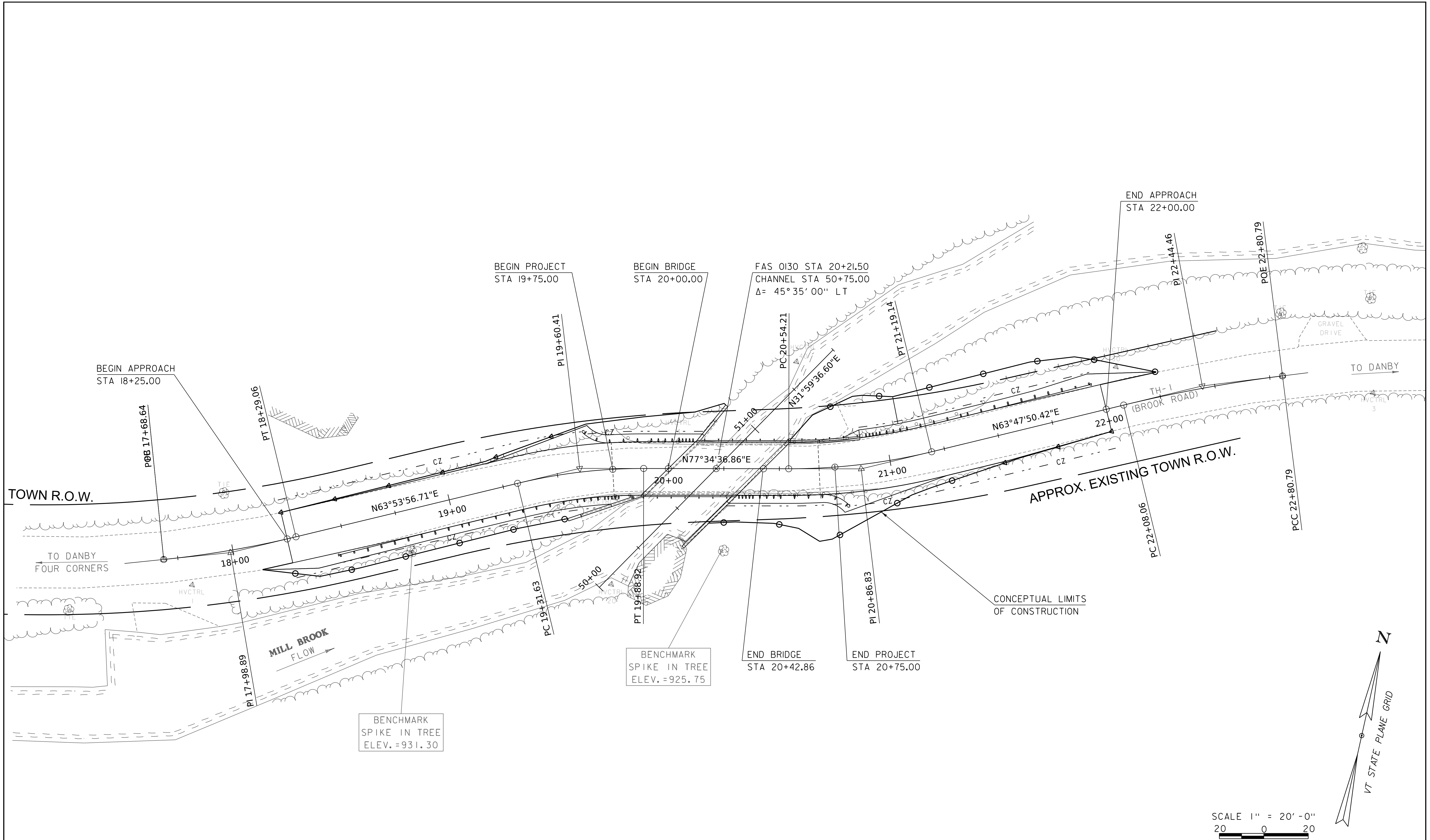
SOIL INFORMATION:  
 FARMINGTON-GALWAY-GALLOO COMPLEX  
 MODERATE EROSION POTENTIAL  
 K-FACTOR =0.32, 25%-50%  
 HYDROLOGIC SOIL GROUP: D



EXISTING BRIDGE INFORMATION:  
 SINGLE SPAN CONCRETE T-BEAM  
 BUILT 1928  
 40' CLEAR SPAN

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

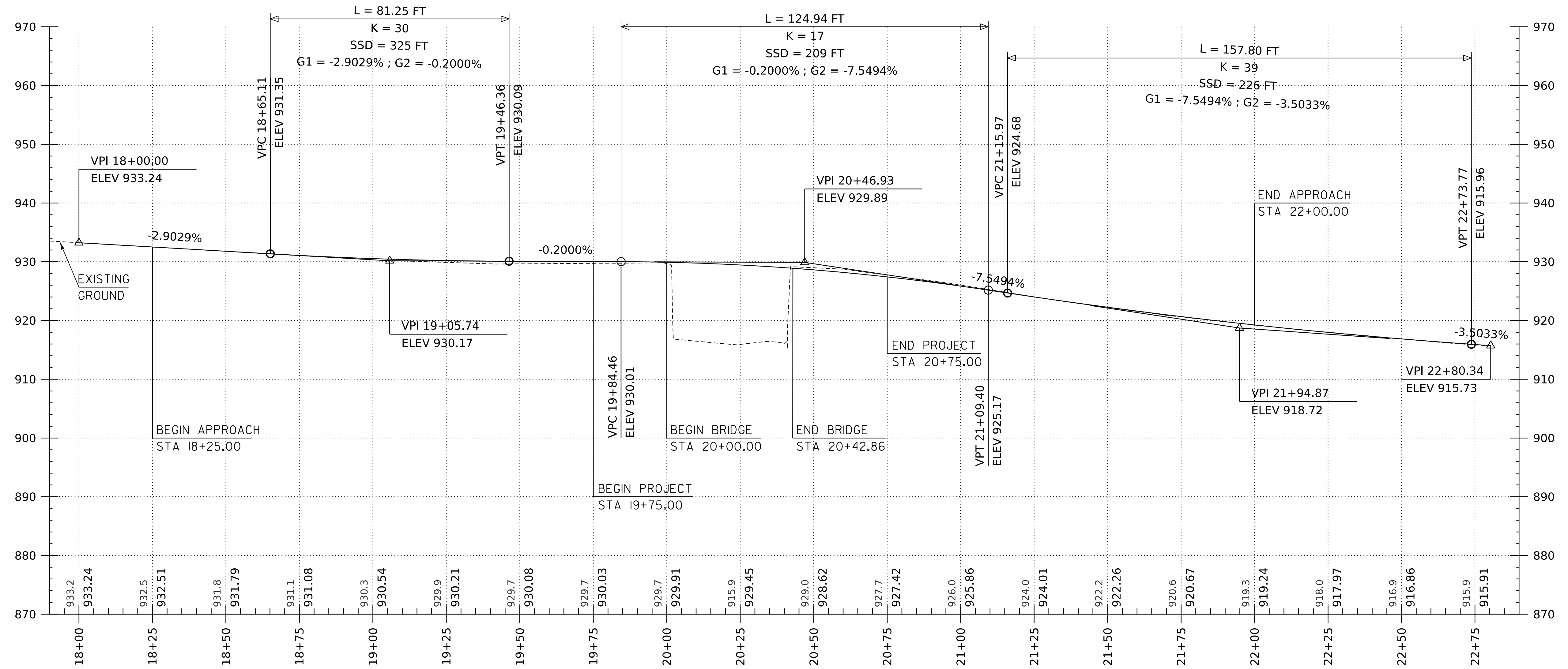
PROJECT NAME: DANBY	PLOT DATE: 24-MAR-2023
PROJECT NUMBER: BF 0130(4)	DRAWN BY: A. LEMIEUX
FILE NAME: sl2j618BDR.Existing.dgn	CHECKED BY: R. HOOD
PROJECT LEADER: A. GOUDREAU	SHEET 5 OF 17
DESIGNED BY: A. LEMIEUX	
EXISTING CONDITIONS	



EXISTING BRIDGE INFORMATION:  
 SINGLE SPAN CONCRETE T-BEAM  
 BUILT 1928  
 40' CLEAR SPAN

CURVE (1)	CURVE (2)	CURVE (3)	CURVE (4)
DELTA = 07°41'37"	DELTA = 13°40'40"	DELTA = 13°46'46"	DELTA = 06°30'38"
D = 12°43'57"	D = 23°52'24"	D = 21°13'14"	D = 08°57'09"
R = 450.00'	R = 240.00'	R = 270.00'	R = 640.00'
T = 30.26'	T = 28.78'	T = 32.62'	T = 36.40'
L = 60.43'	L = 57.29'	L = 64.93'	L = 72.72'
e = 1.02'	e = 1.72'	e = 1.96'	e = 1.03'

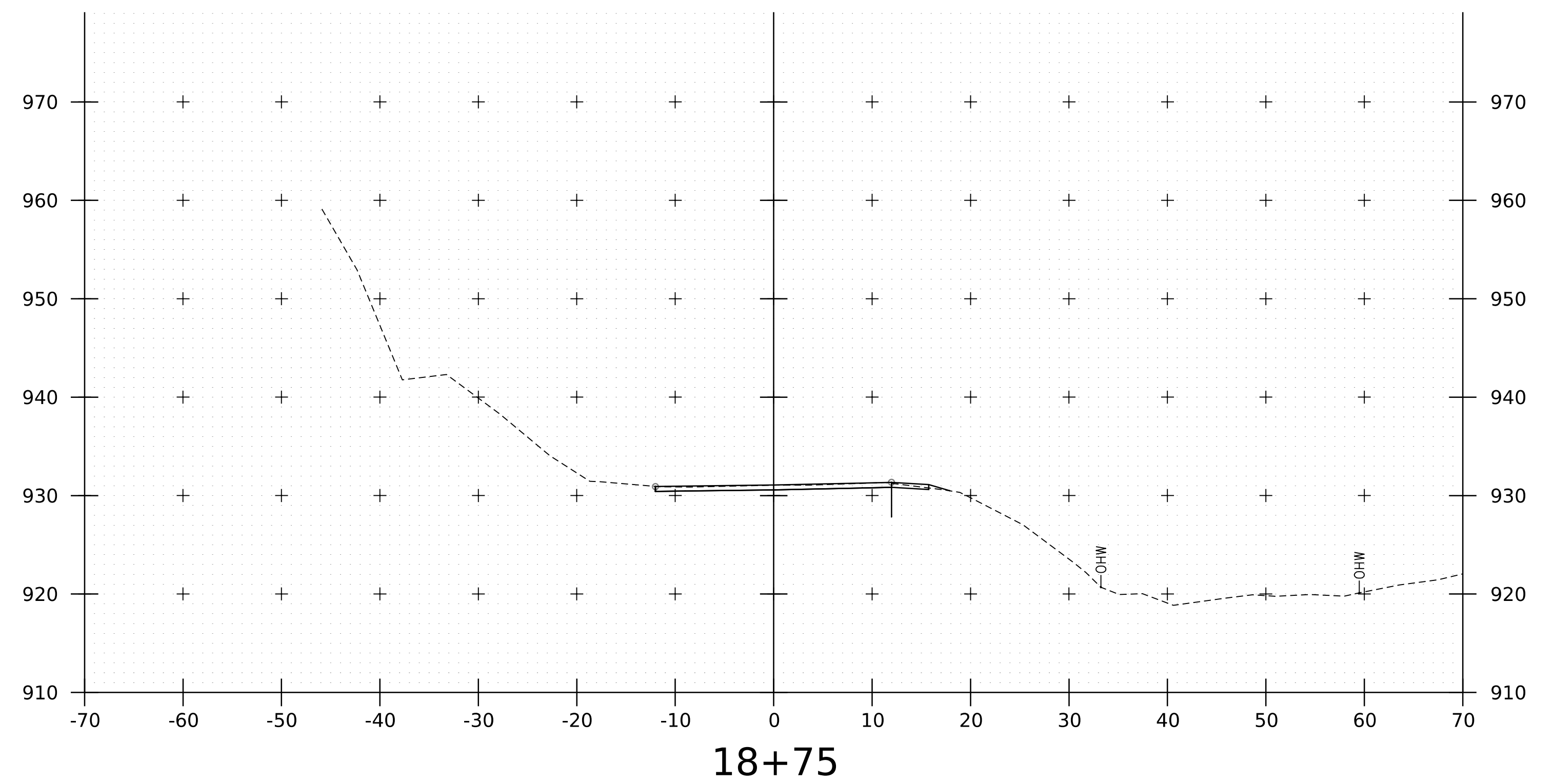
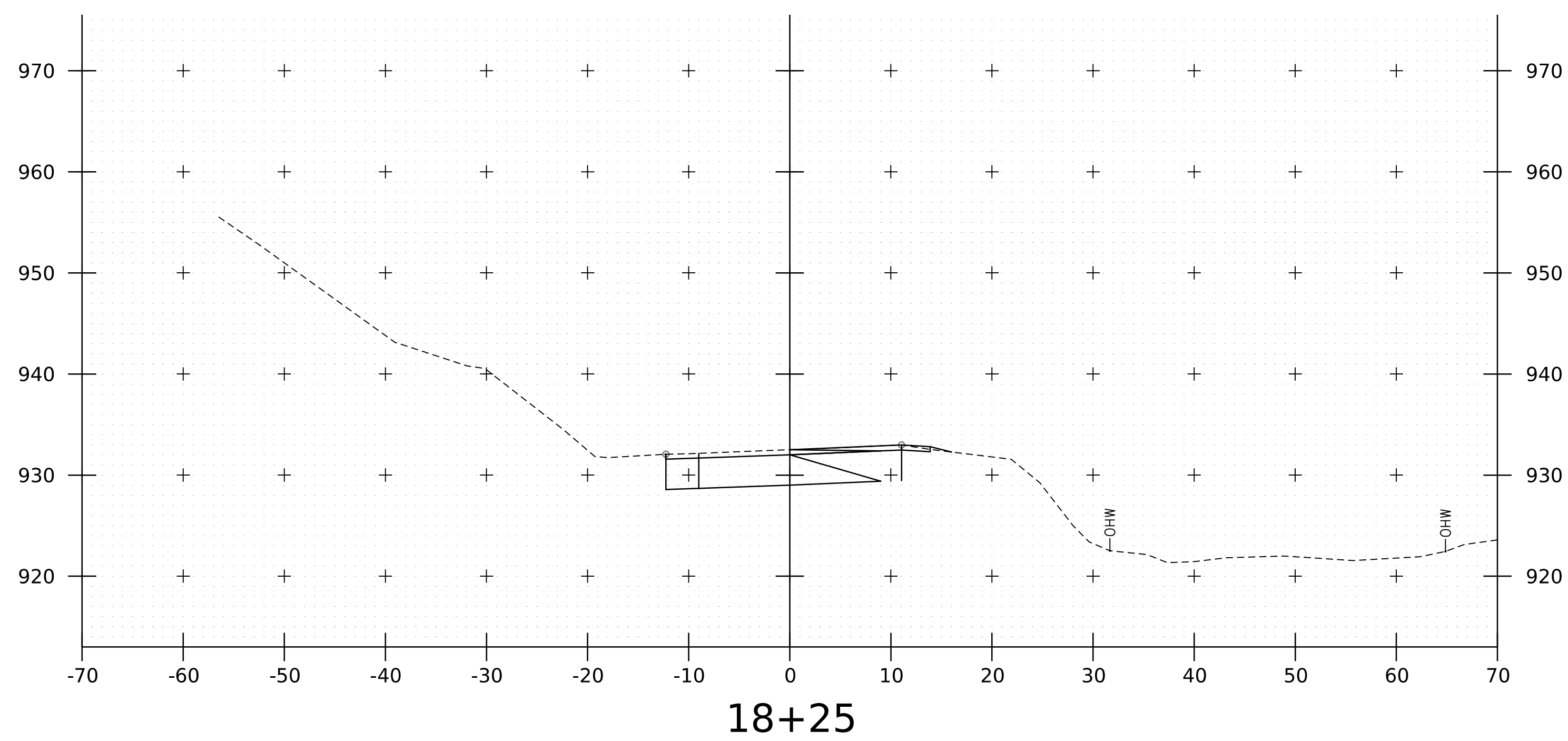
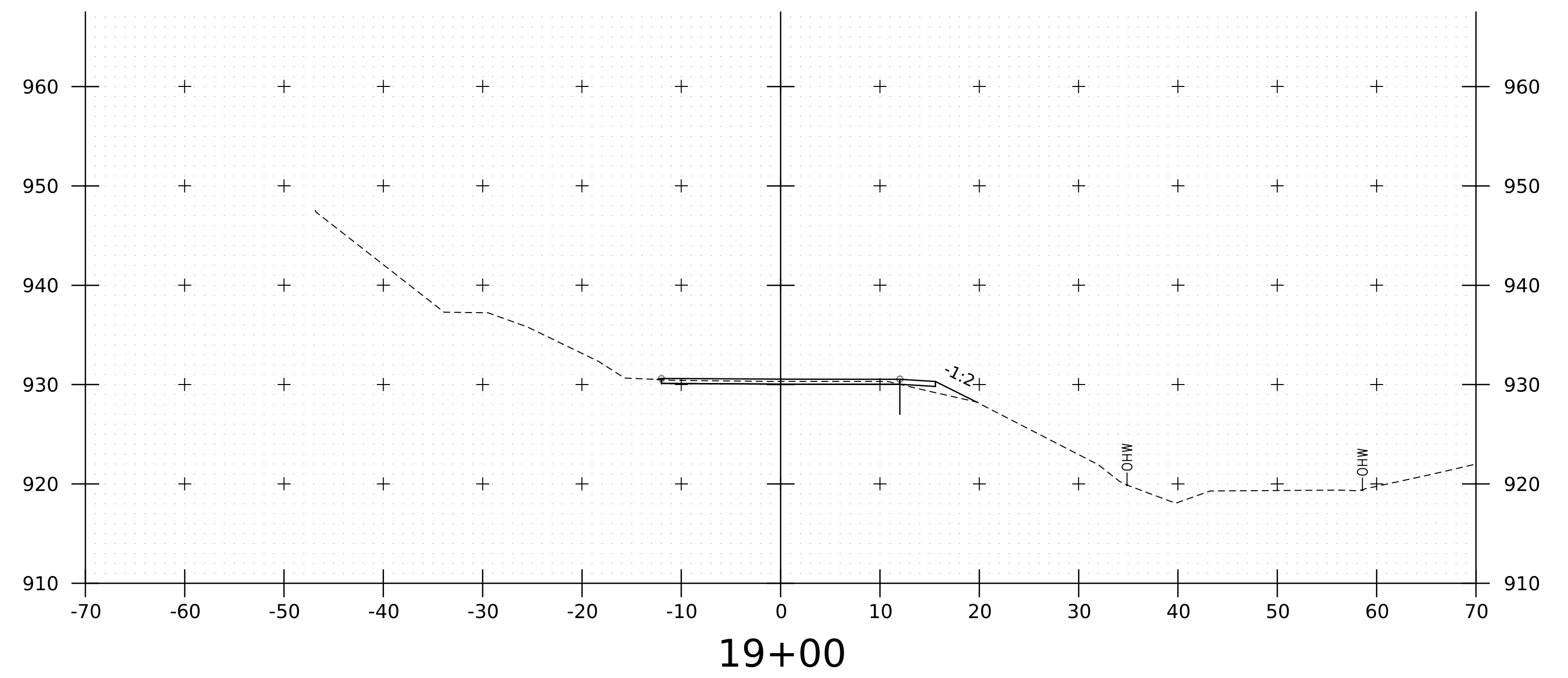
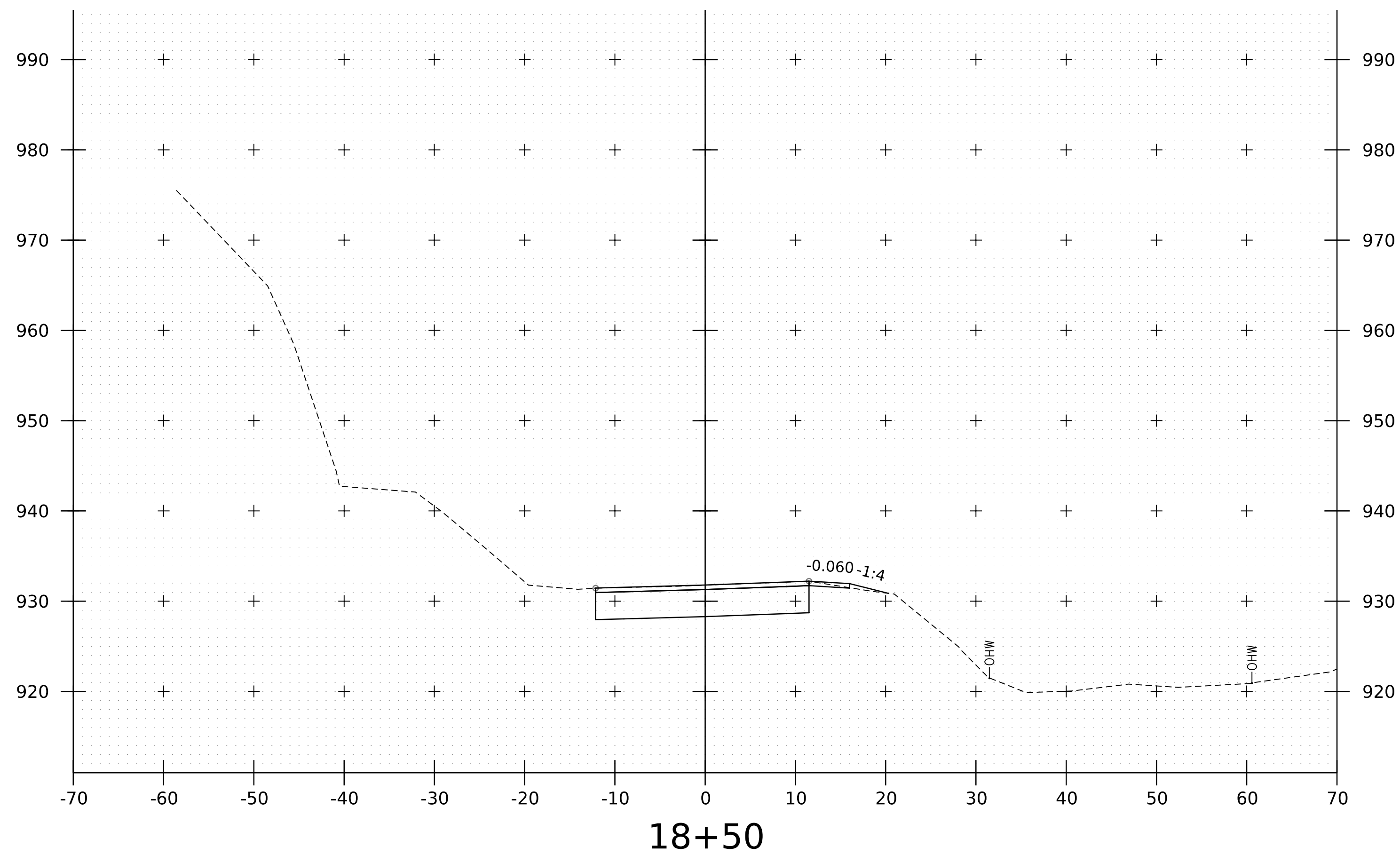
PROJECT NAME: DANBY	PLOT DATE: 24-MAR-2023
PROJECT NUMBER: BF 0130(4)	DRAWN BY: A. LEMIEUX
FILE NAME: sl2j618bdr.dgn	CHECKED BY: R. HOOD
PROJECT LEADER: A. GOURDREAU	SHEET 6 OF 17
DESIGNED BY: A. LEMIEUX	
LAYOUT	



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

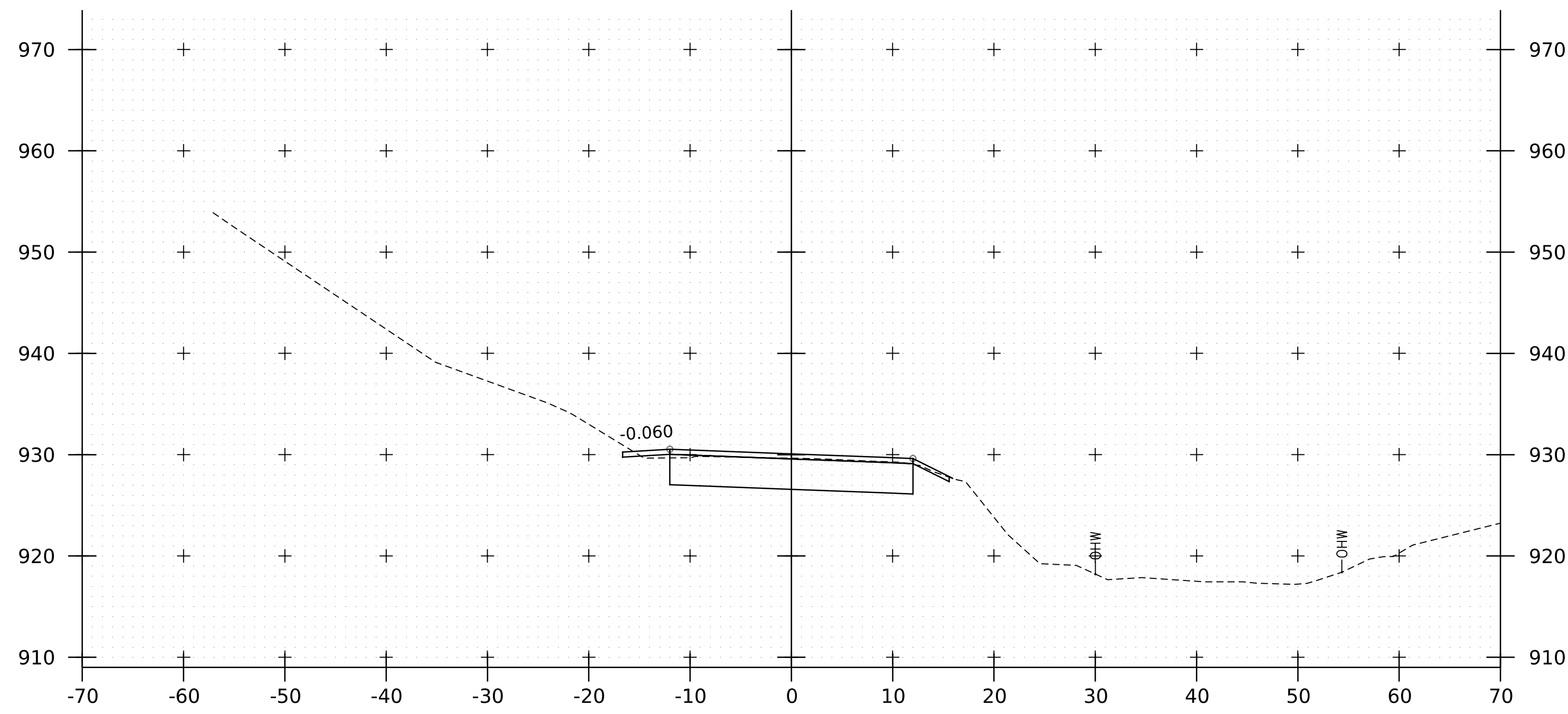
**NOTE:**  
 GRADES SHOWN TO THE NEAREST TENTH  
 ARE EXISTING GROUND ALONG @  
 GRADES SHOWN TO THE NEAREST  
 HUNDREDTH ARE FINISH GRADE ALONG @

PROJECT NAME: DANBY	
PROJECT NUMBER: BF 0130(4)	
FILE NAME: sl2j618_profile.dgn	PLOT DATE: 24-MAR-2023
PROJECT LEADER: A. GOUDREAU	DRAWN BY: A. LEMIEUX
DESIGNED BY: A. LEMIEUX	CHECKED BY: R. HOOD
PROFILE	SHEET 7 OF 17

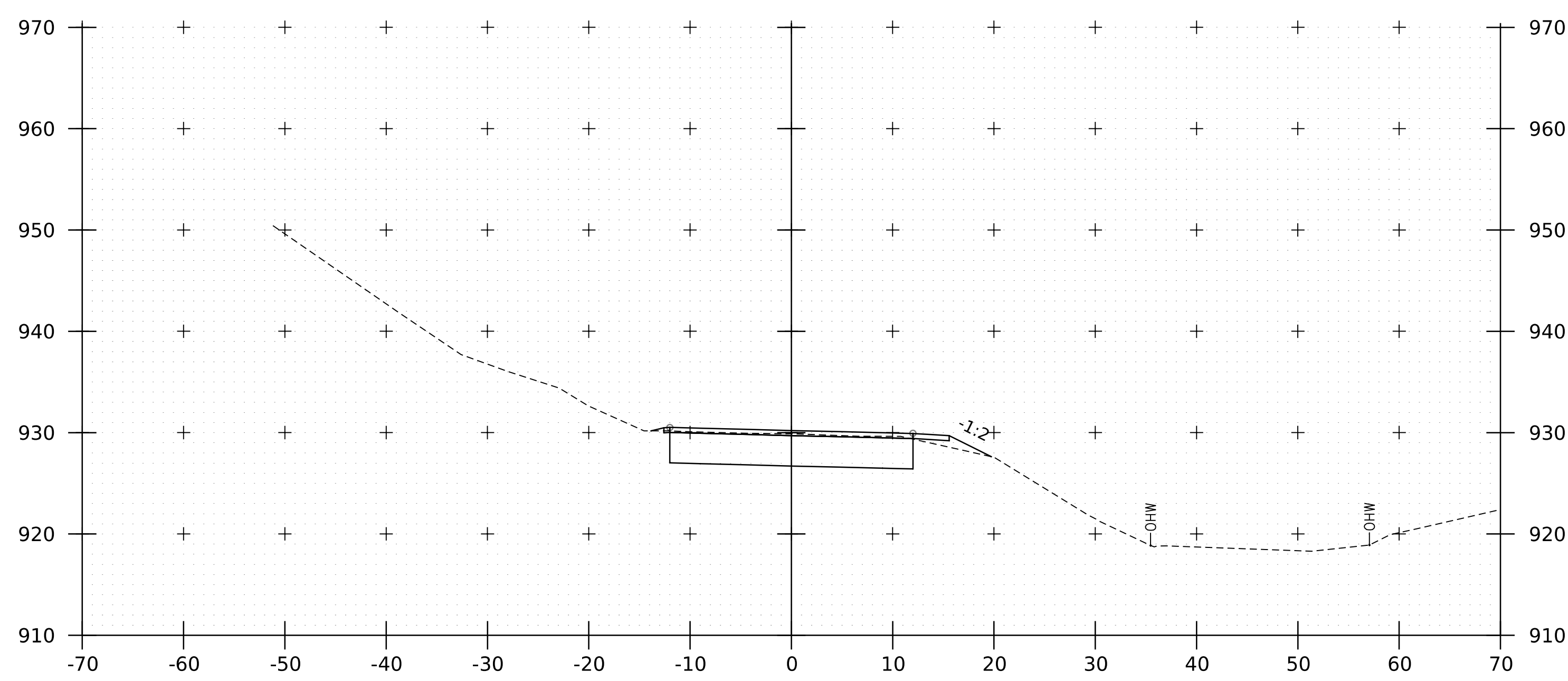


PROJECT NAME:	DANBY	PLOT DATE:	24-MAR-2023
PROJECT NUMBER:	BF 0130(4)	DRAWN BY:	A. LEMIEUX
FILE NAME:	sl2j618xs.dgn	CHECKED BY:	R. HOOD
PROJECT LEADER:	A. GOUDREAU	SHEET	8 OF 17
DESIGNED BY:	A. LEMIEUX		
CROSS SECTIONS	1		

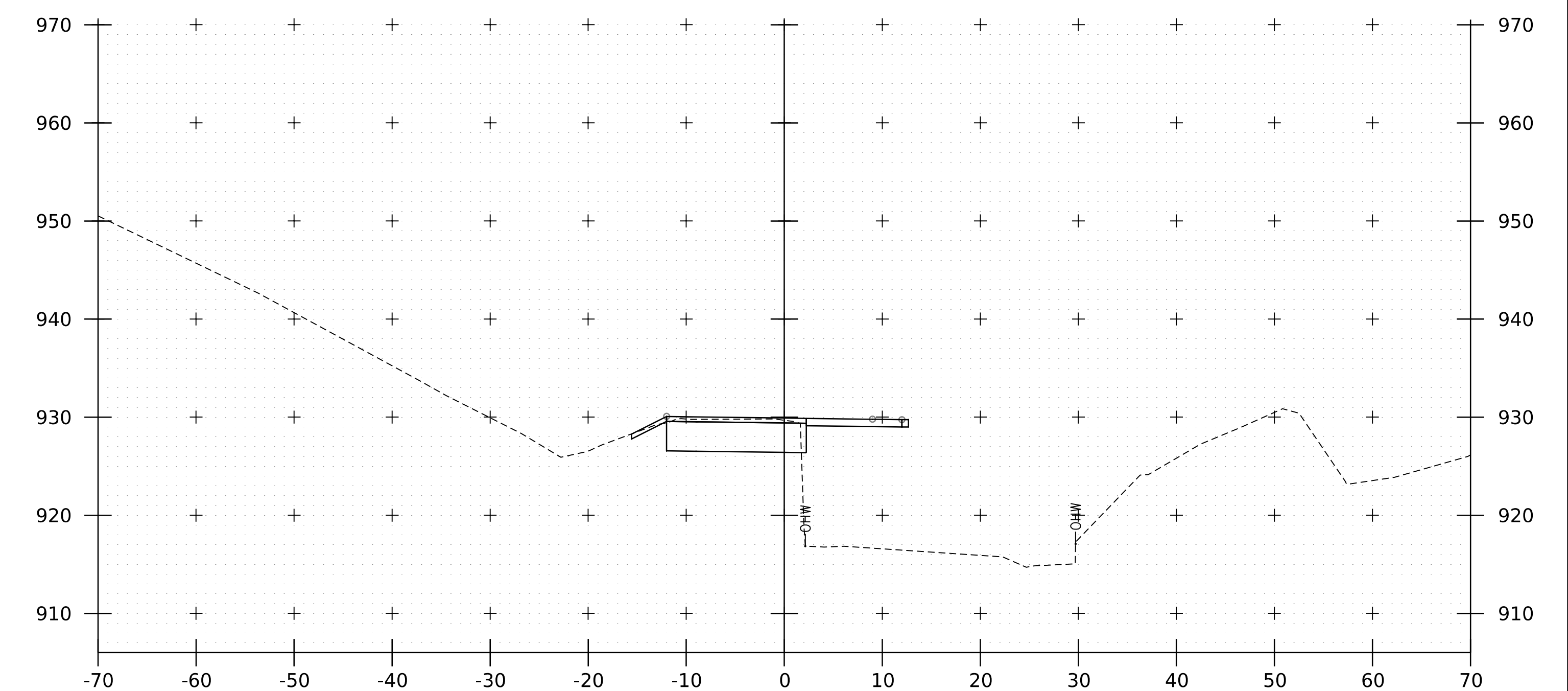




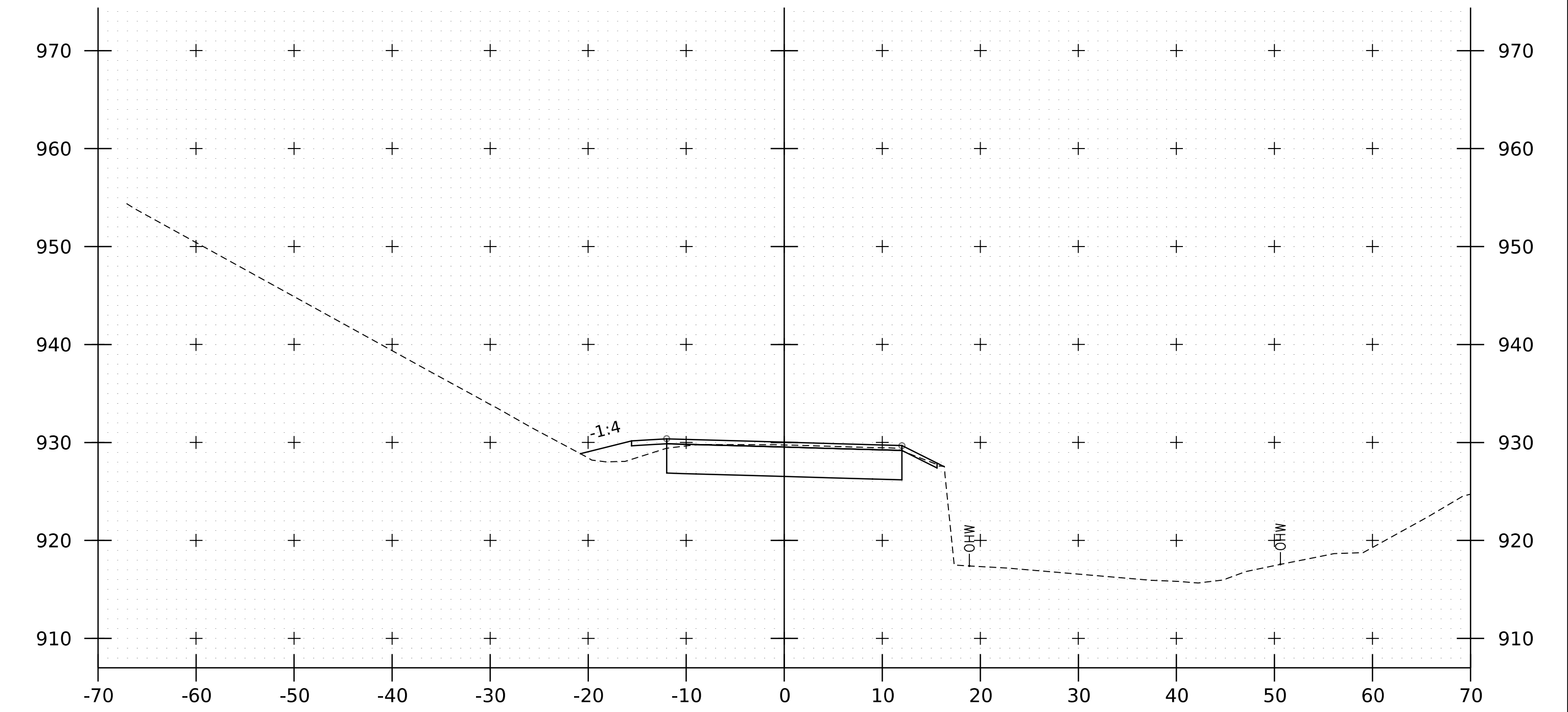
19+50



19+25

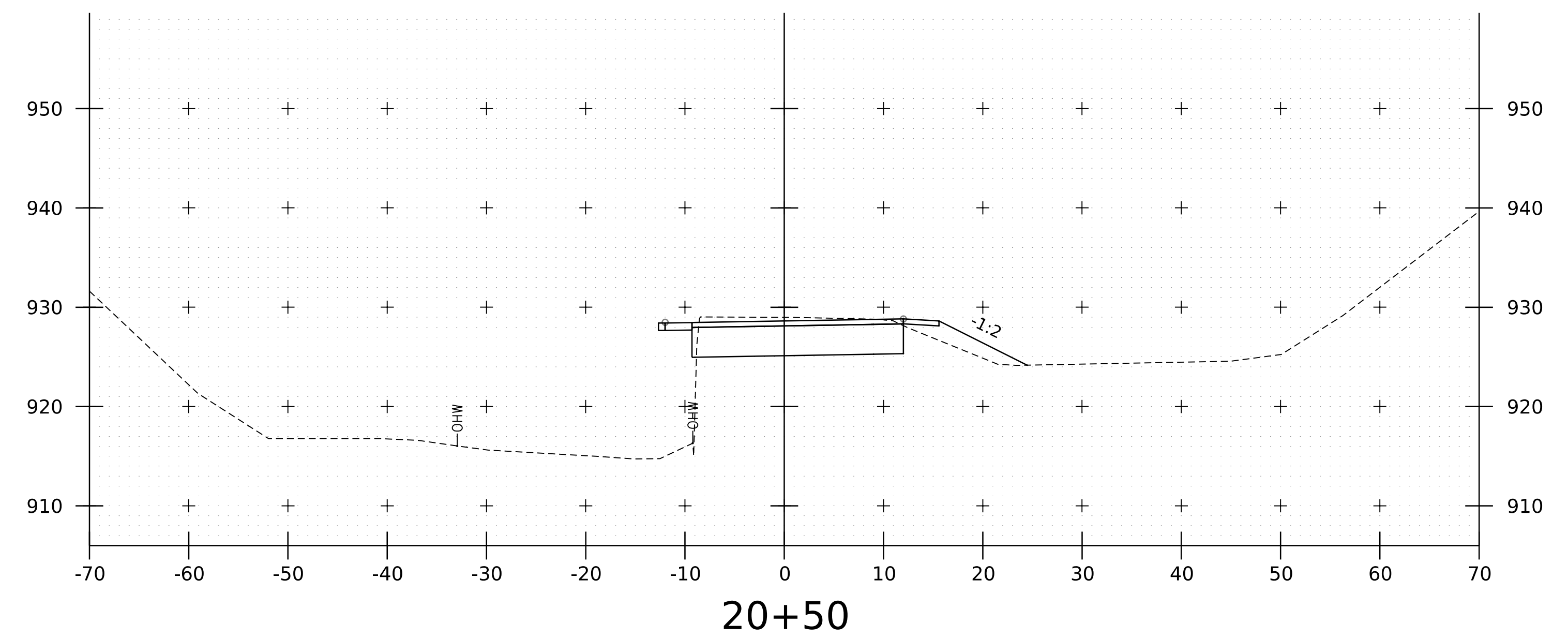
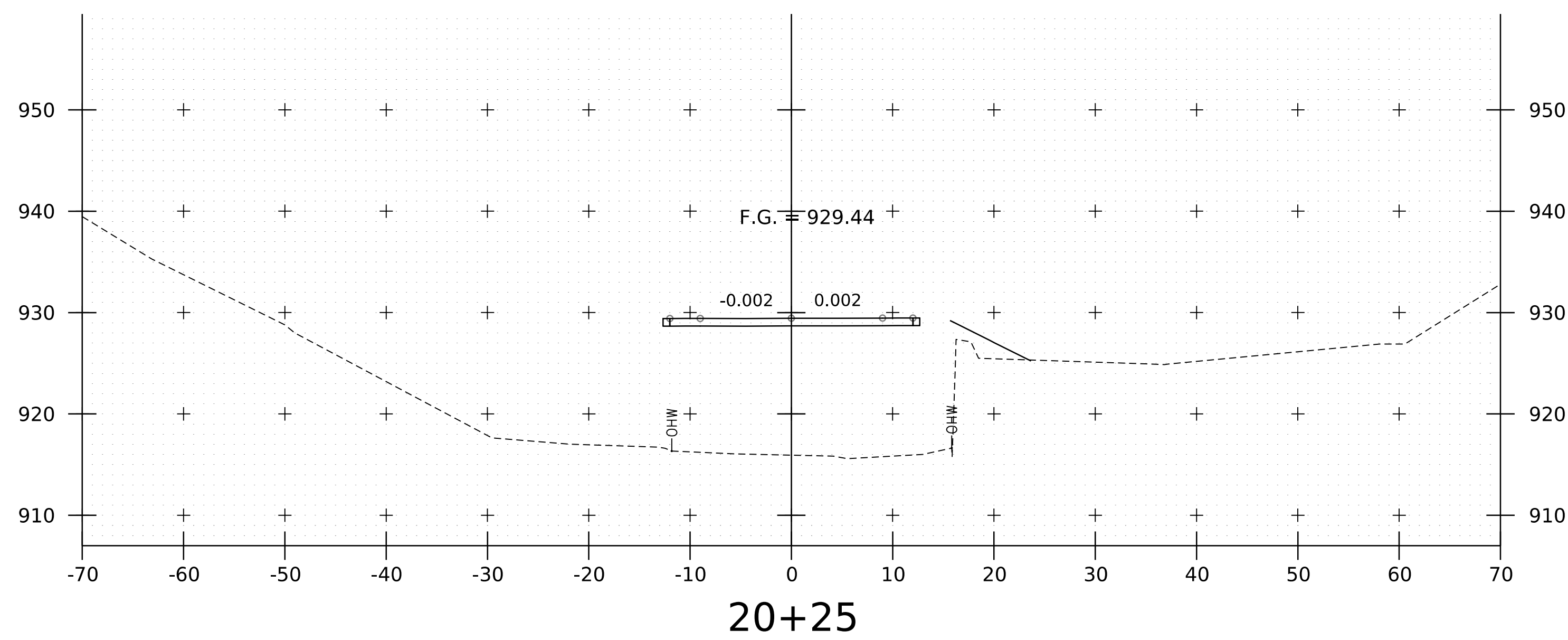
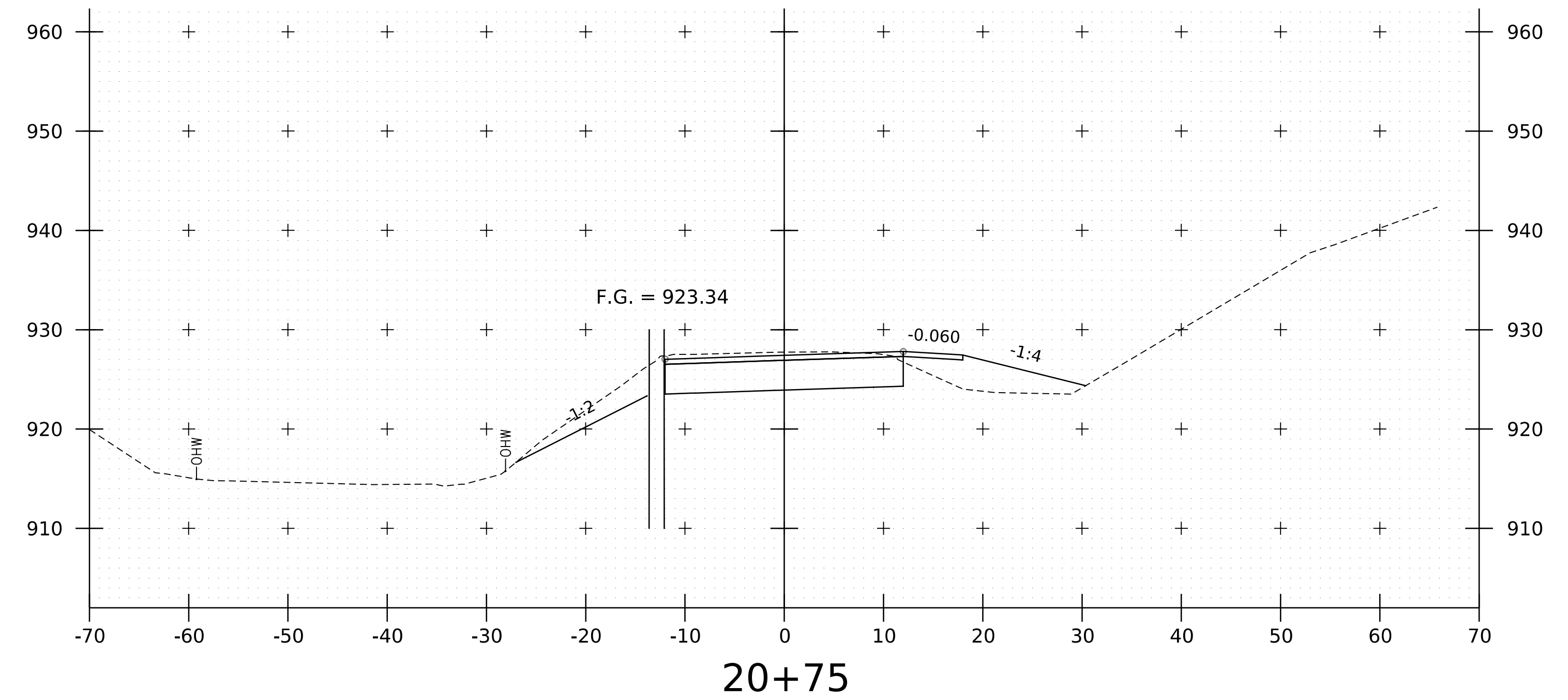
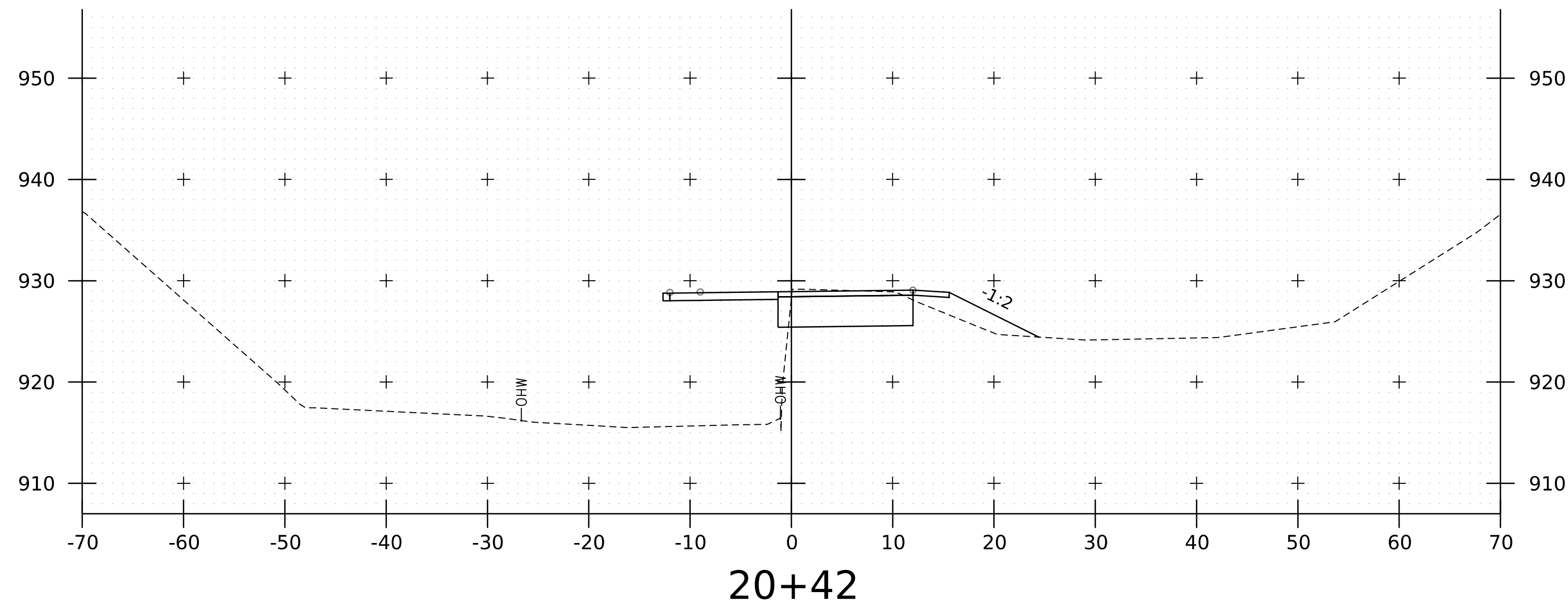


20+00

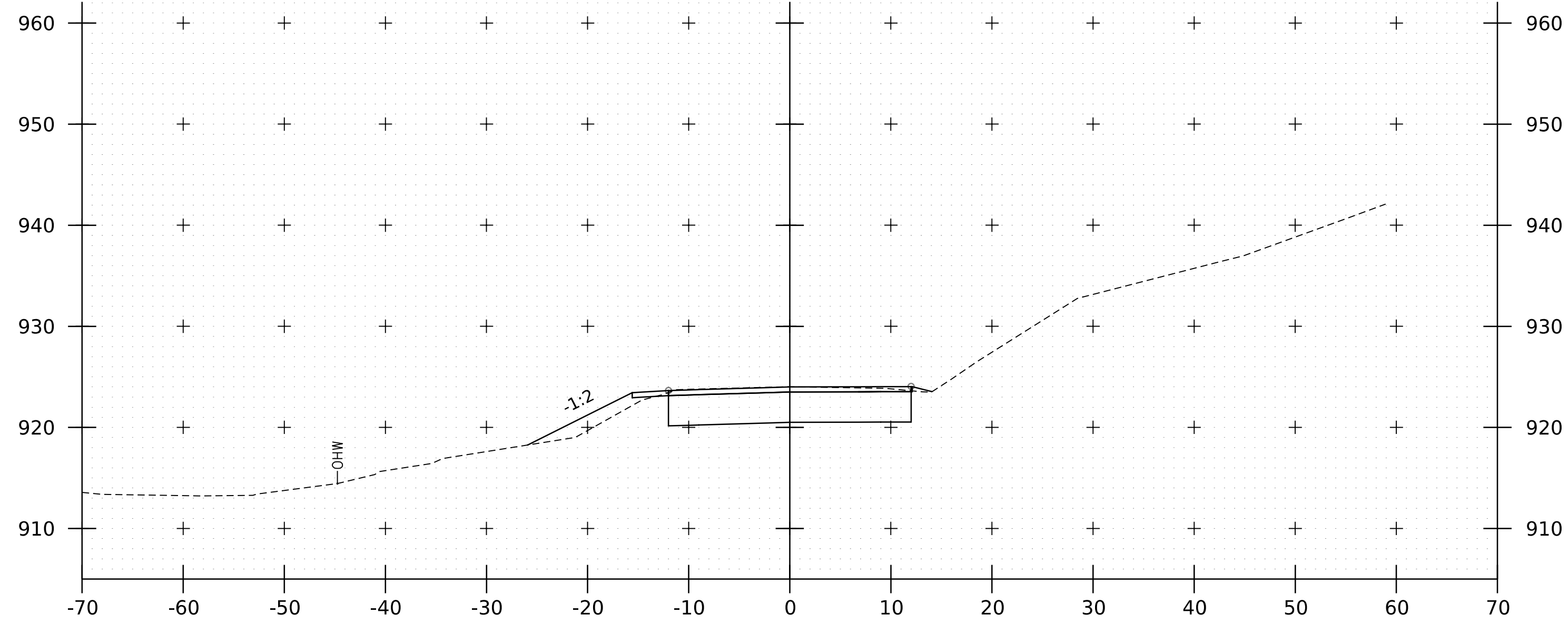


19+75

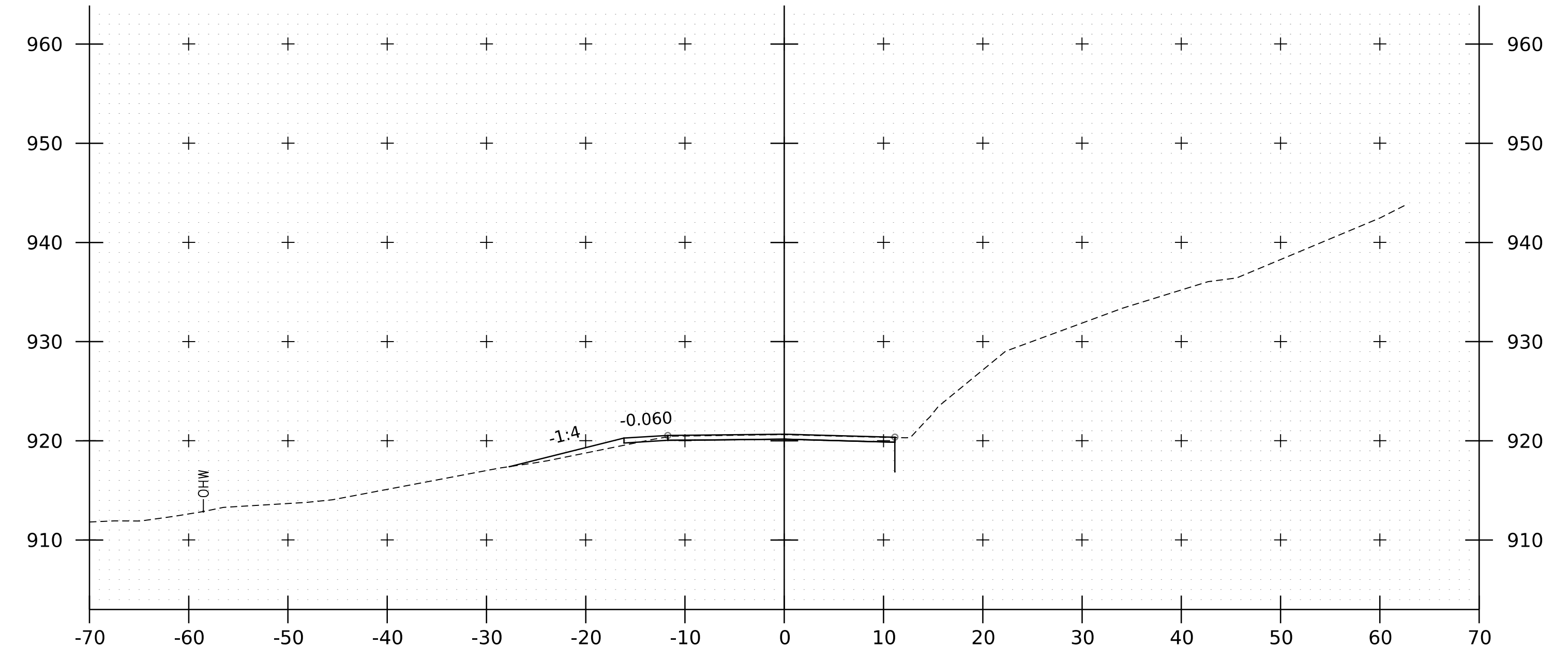
PROJECT NAME:	DANBY	PLOT DATE:	24-MAR-2023
PROJECT NUMBER:	BF 0130(4)	DRAWN BY:	A. LEMIEUX
FILE NAME:	sl2j618XS.DGN	DESIGNED BY:	A. LEMIEUX
PROJECT LEADER:	A. GOUDREAU	CHECKED BY:	R. HOOD
CROSS SECTIONS	2	SHEET	9 OF 17



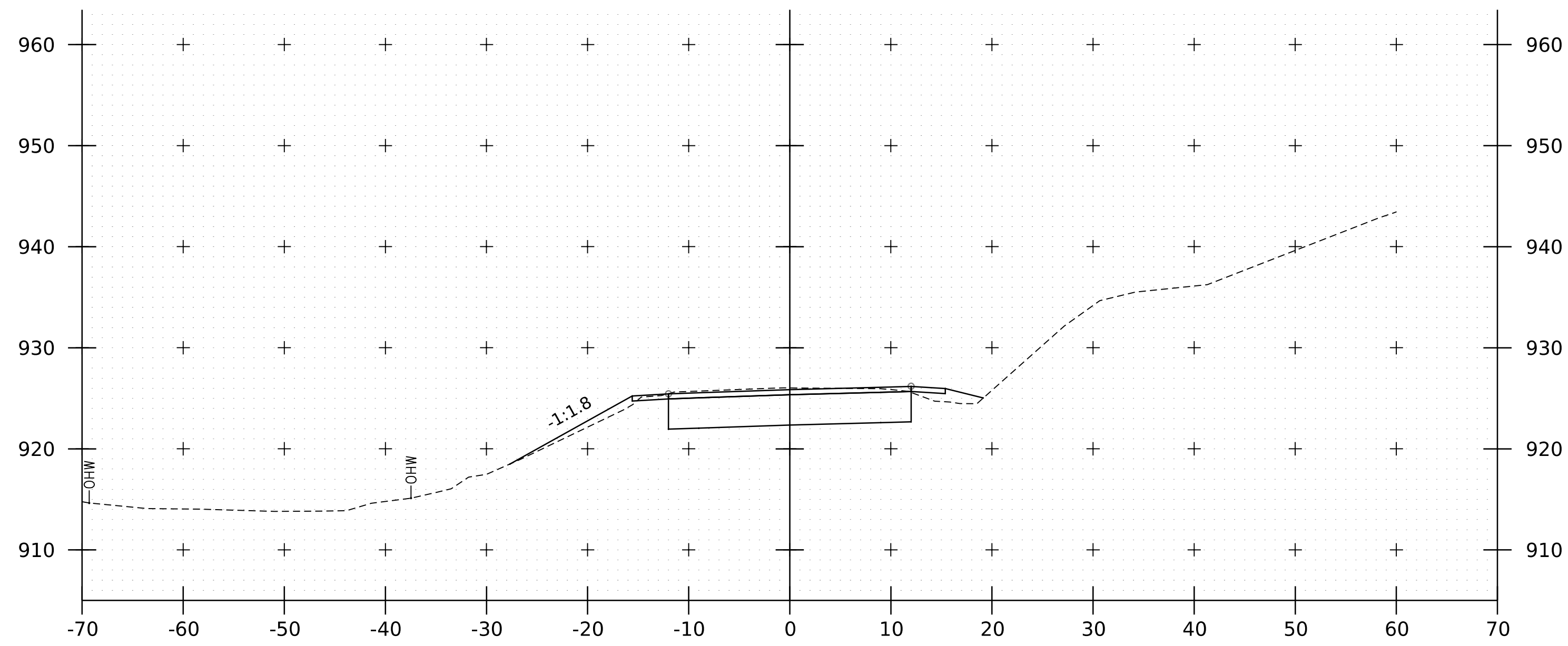
PROJECT NAME: DANBY	
PROJECT NUMBER: BF 0130(4)	
FILE NAME: sl2j618xs.dgn	PLOT DATE: 24-MAR-2023
PROJECT LEADER: A. GOUDREAU	DRAWN BY: A. LEMIEUX
DESIGNED BY: A. LEMIEUX	CHECKED BY: R. HOOD
CROSS SECTIONS 3	SHEET 10 OF 17



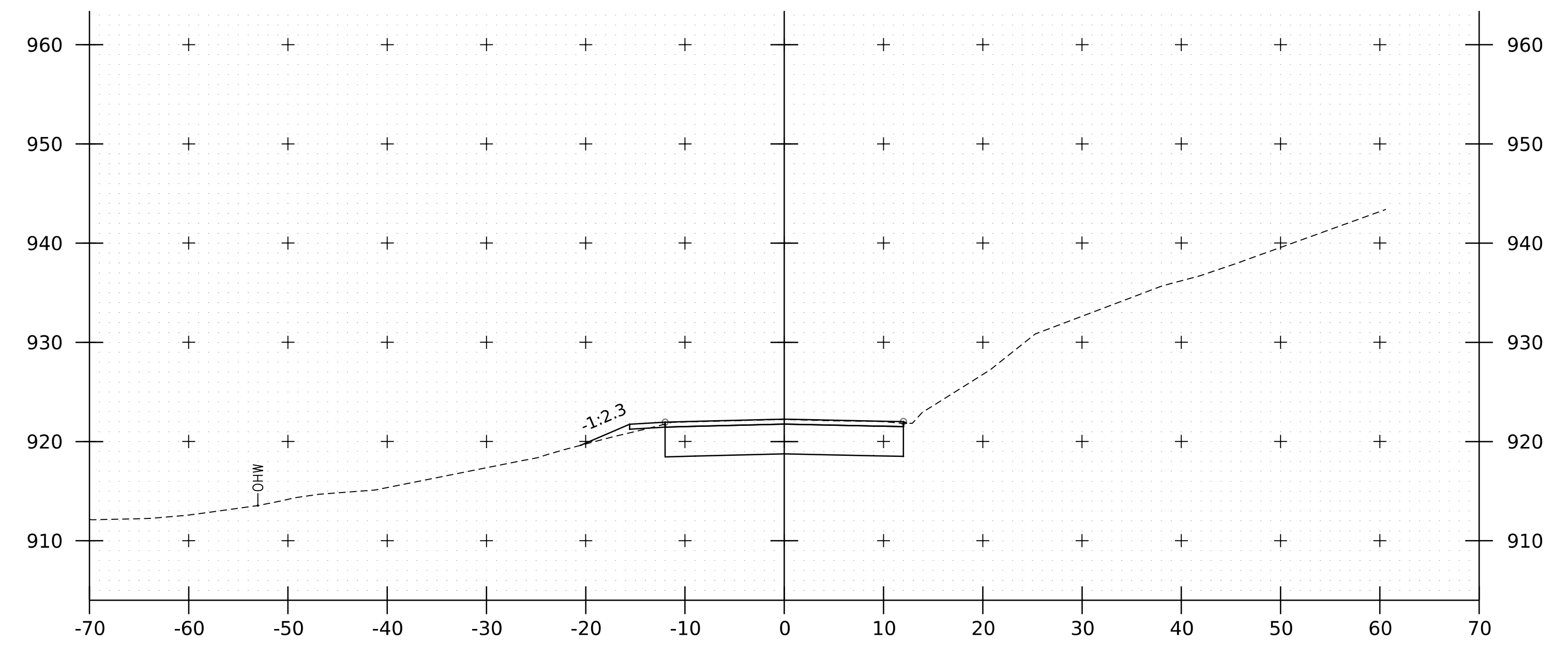
21+25



21+75

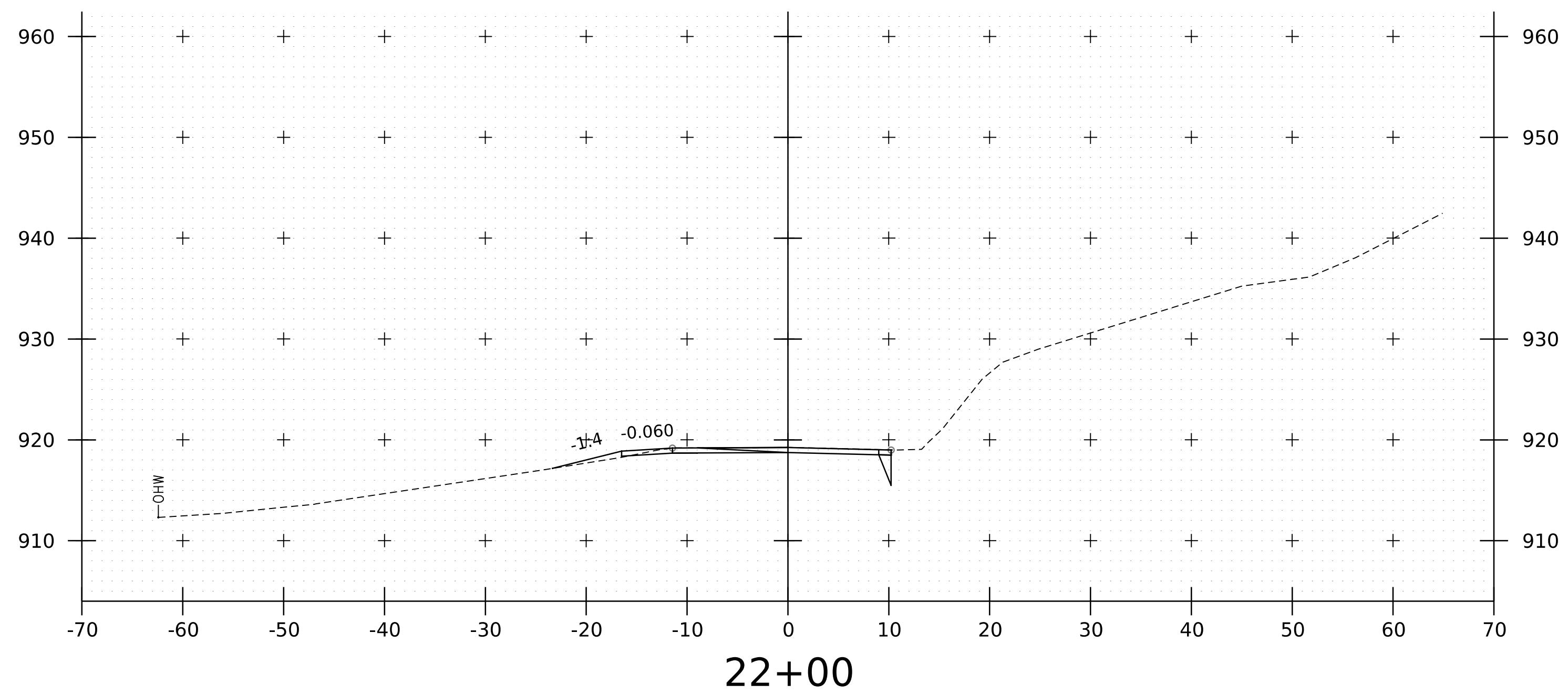


21+00



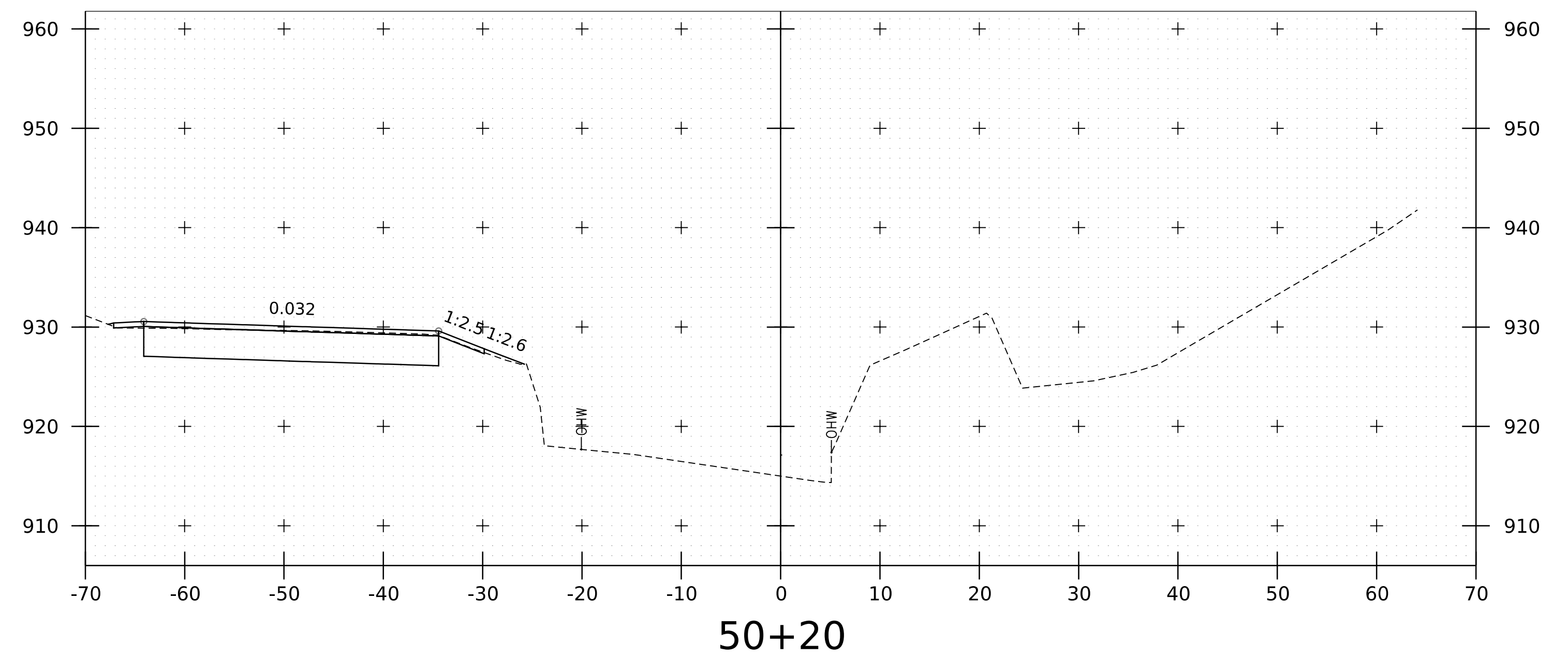
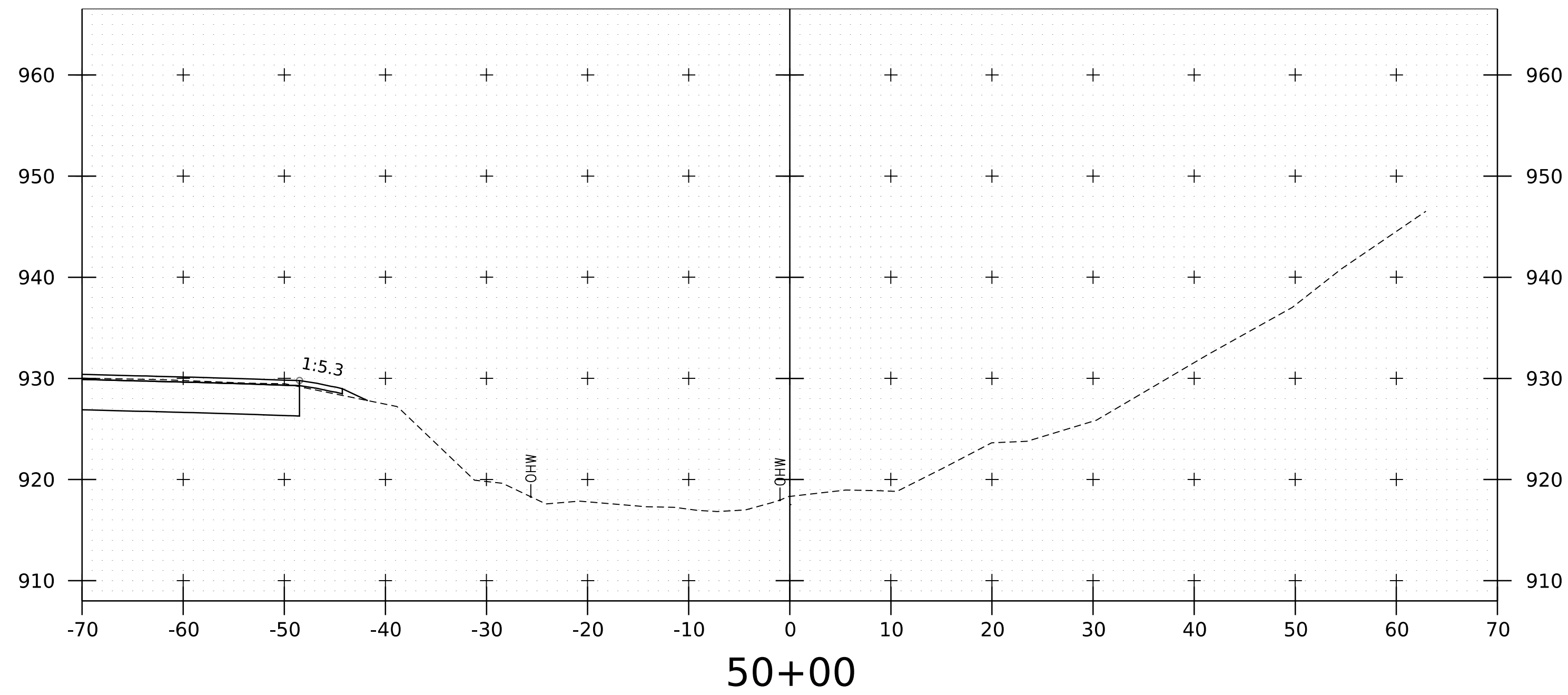
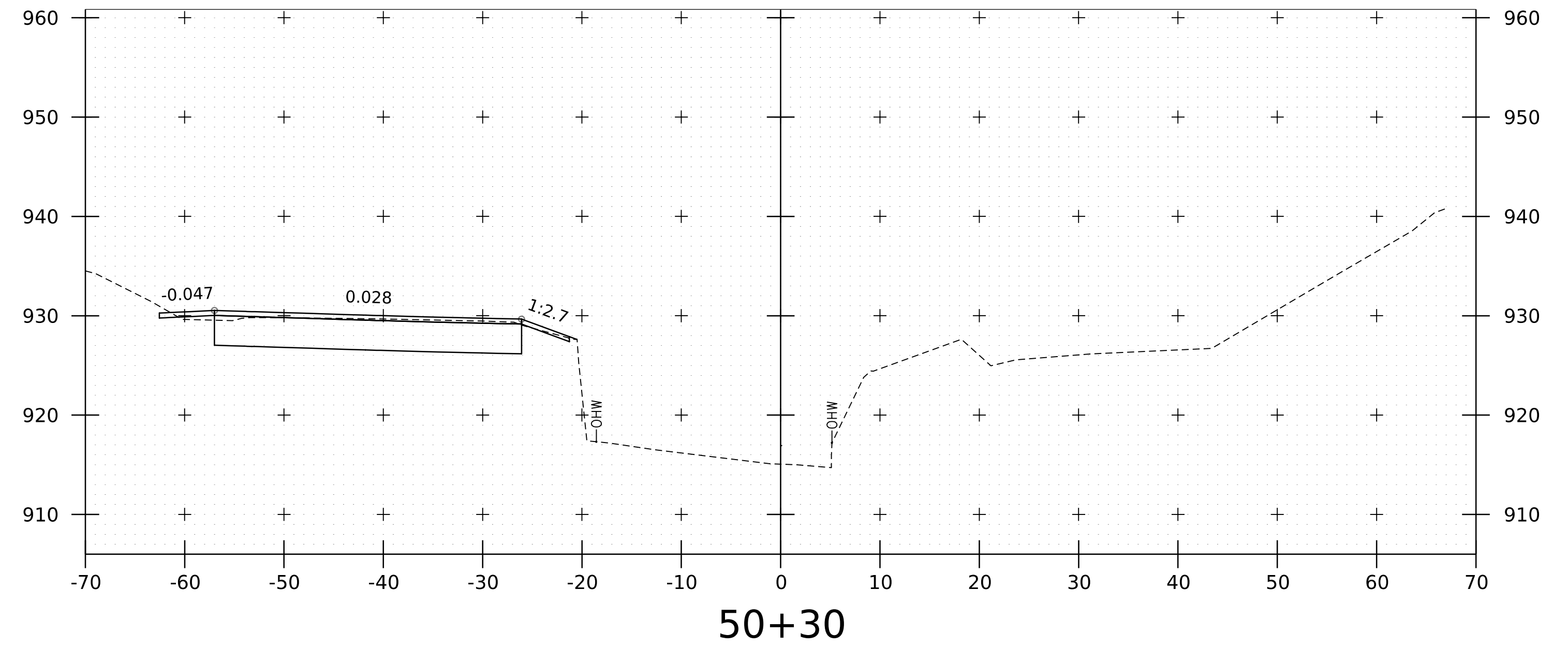
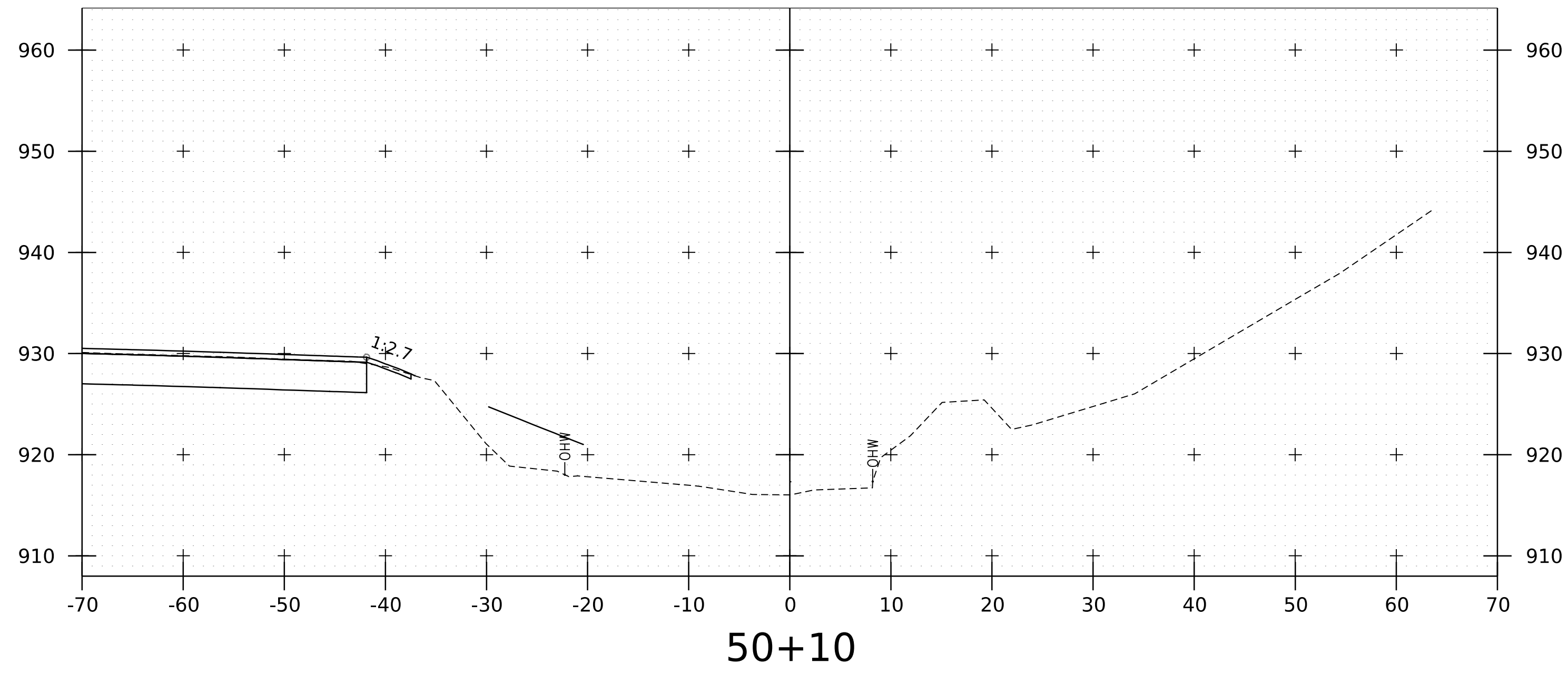
21+50

PROJECT NAME:	DANBY	PLOT DATE:	24-MAR-2023
PROJECT NUMBER:	BF 0130(4)	DRAWN BY:	A. LEMIEUX
FILE NAME:	sl2j618xs.dgn	CHECKED BY:	R. HOOD
PROJECT LEADER:	A. GOUDREAU	SHEET	II OF 17
DESIGNED BY:	A. LEMIEUX		
CROSS SECTIONS	4		

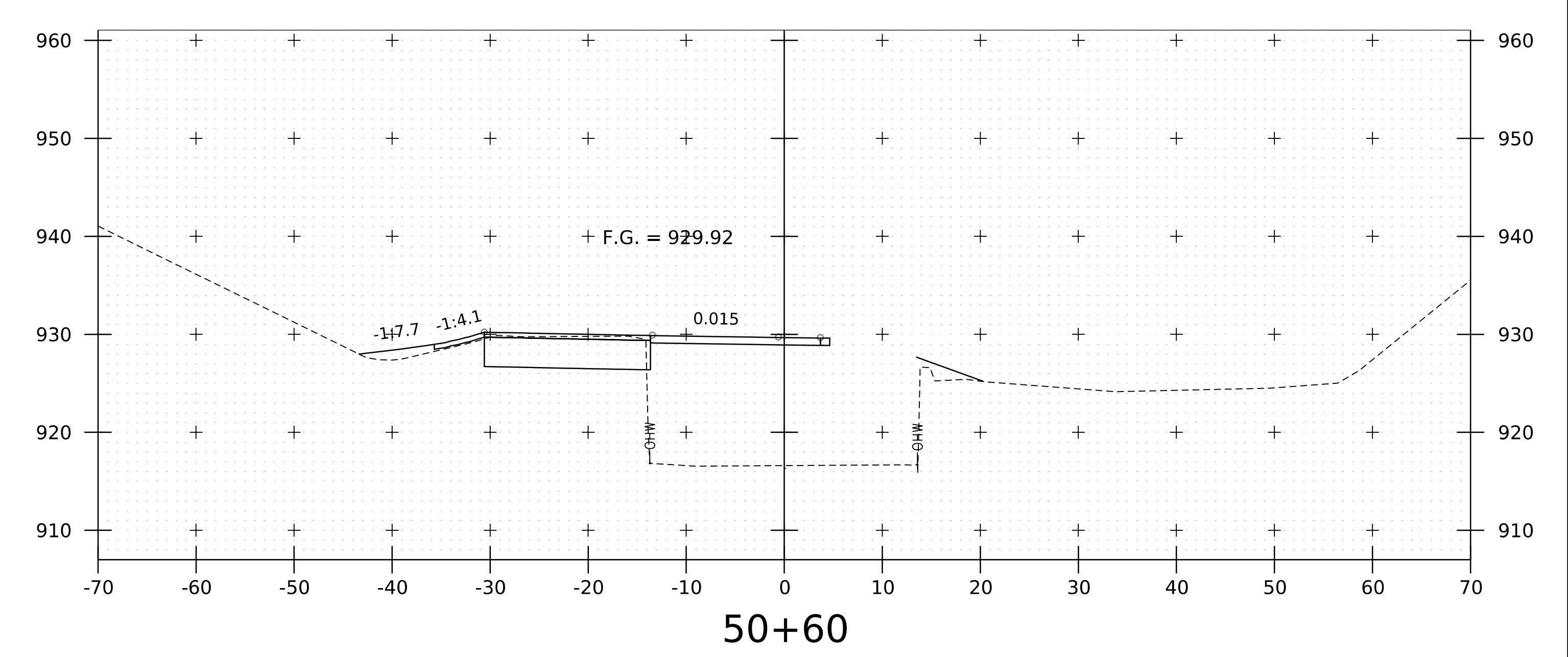
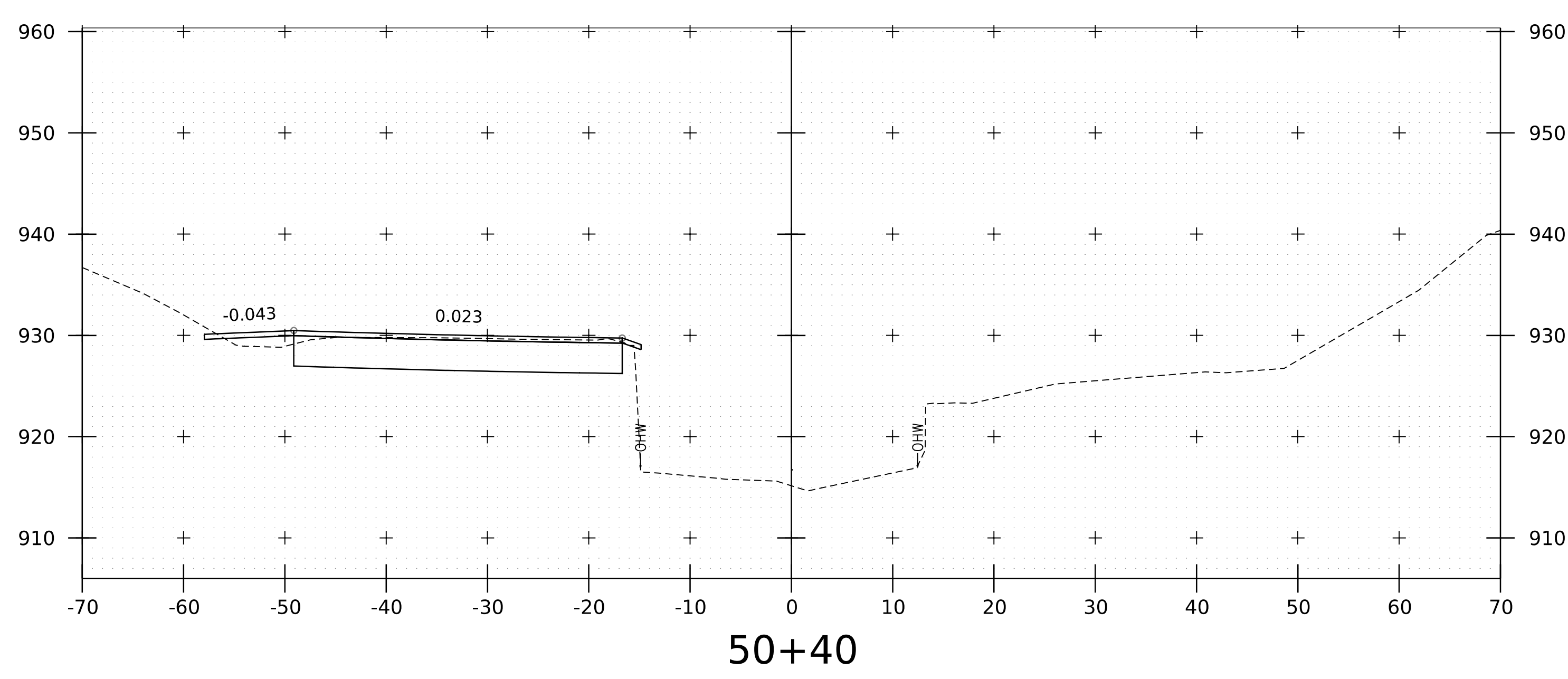
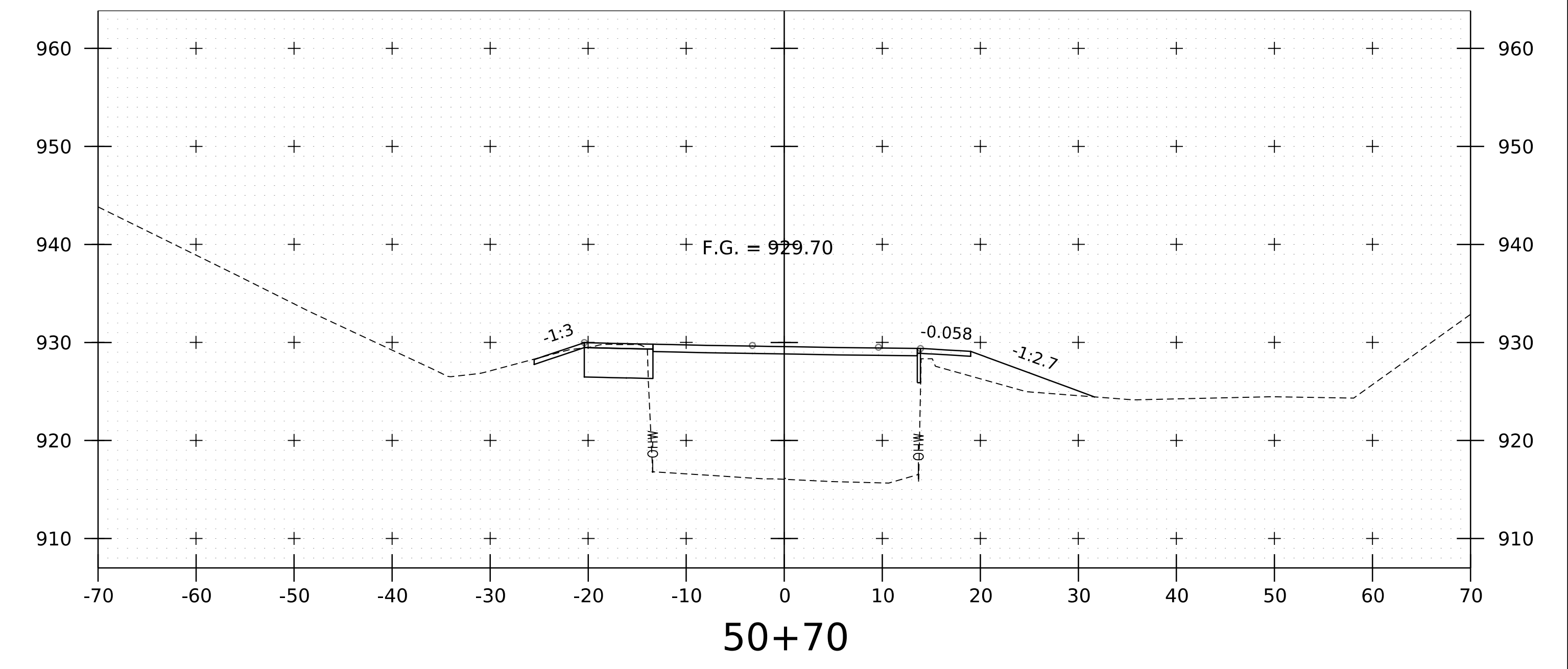
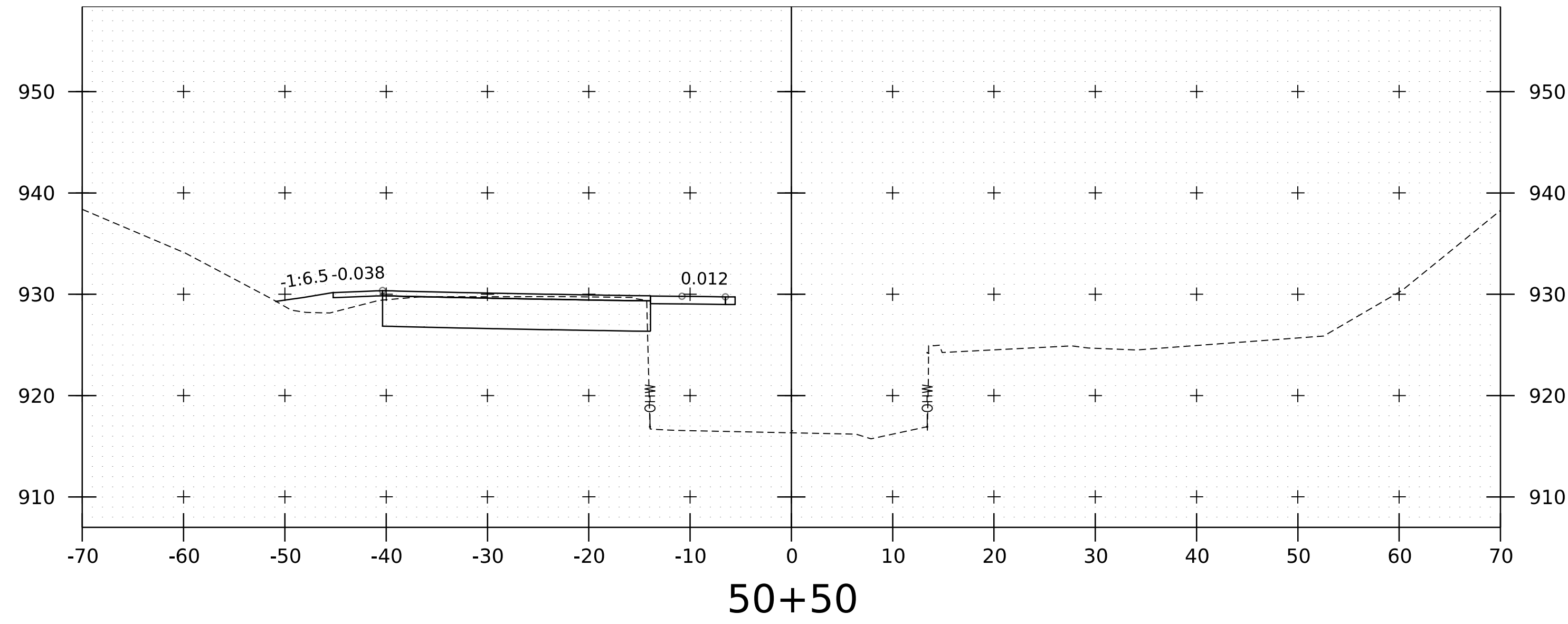


PROJECT NAME: DANBY  
 PROJECT NUMBER: BF 0130(4)

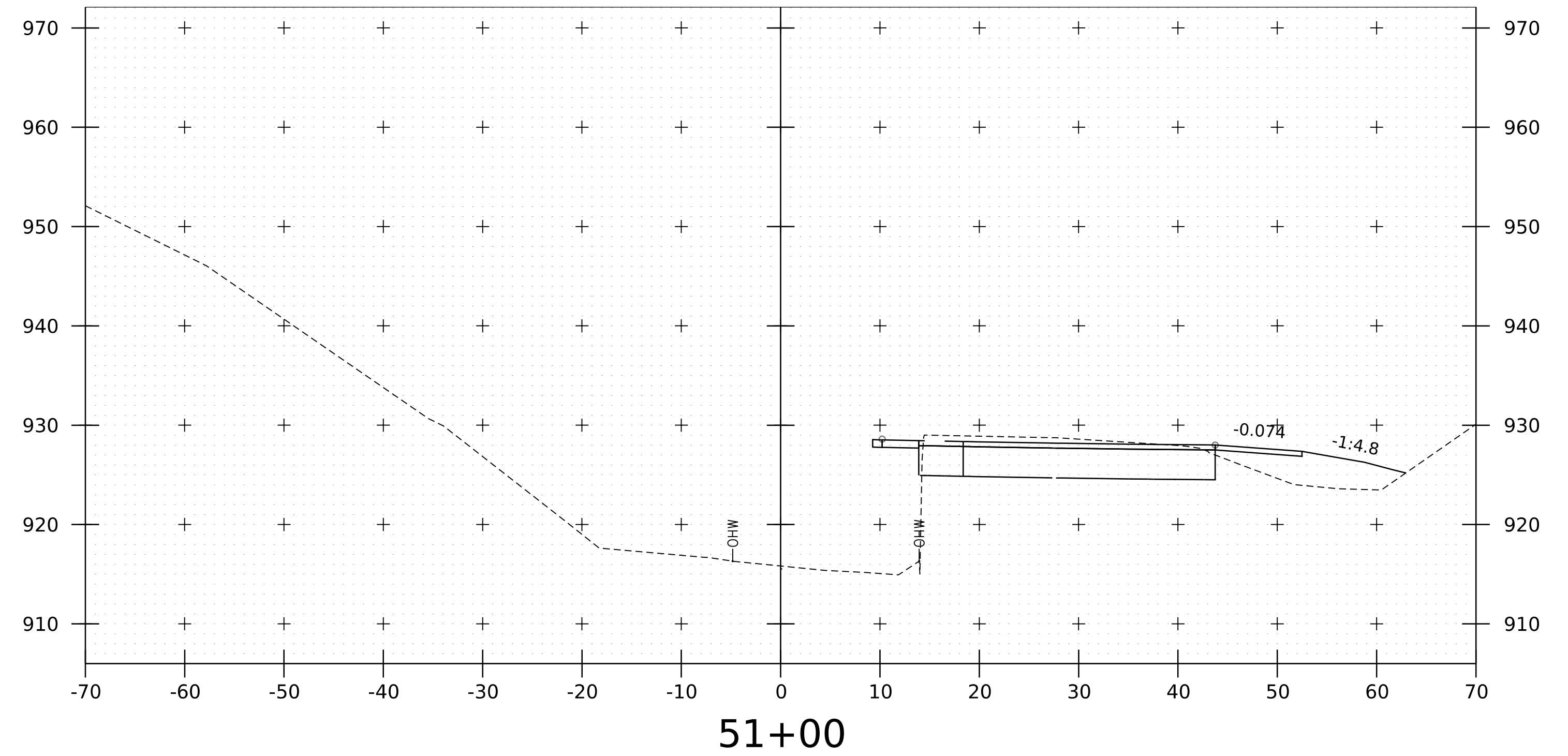
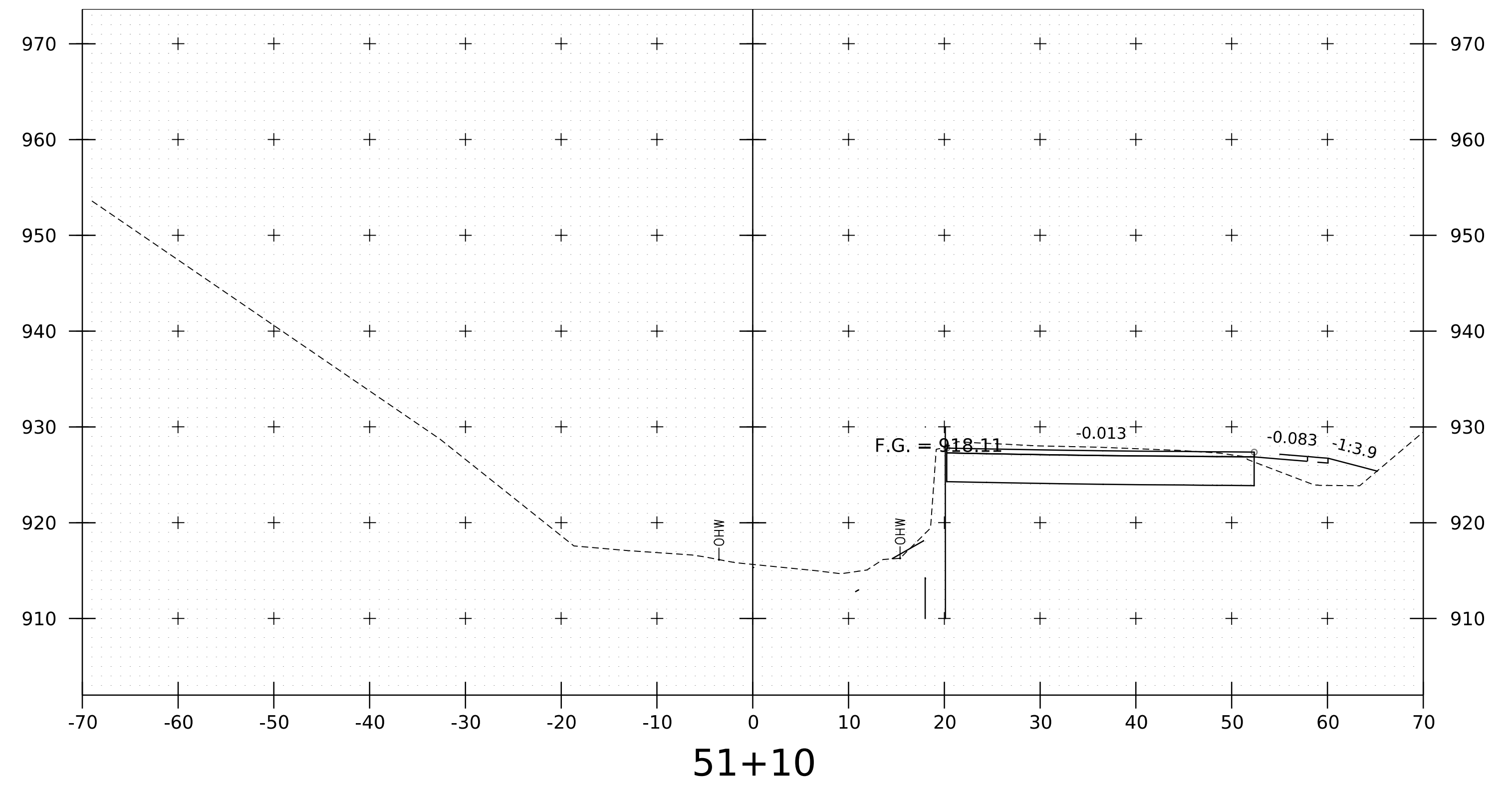
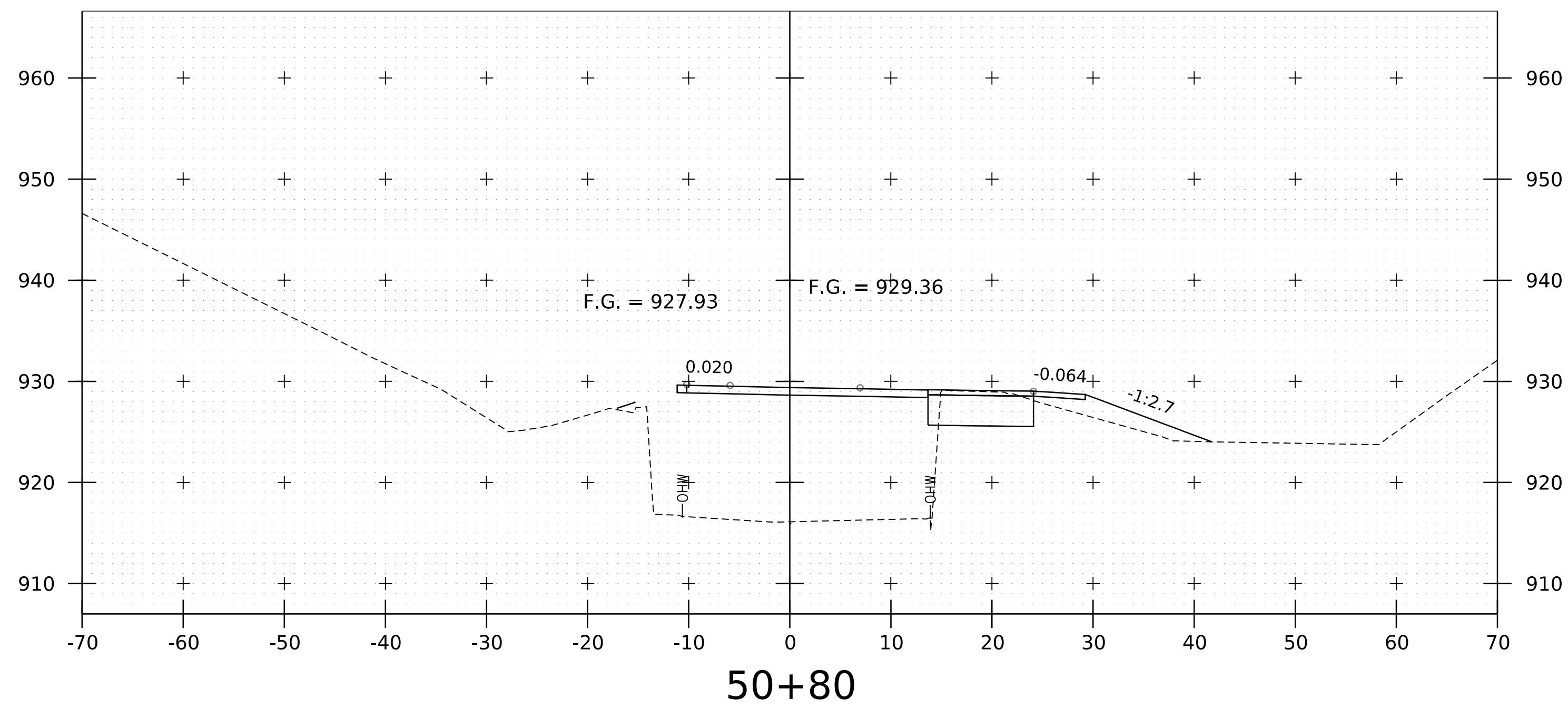
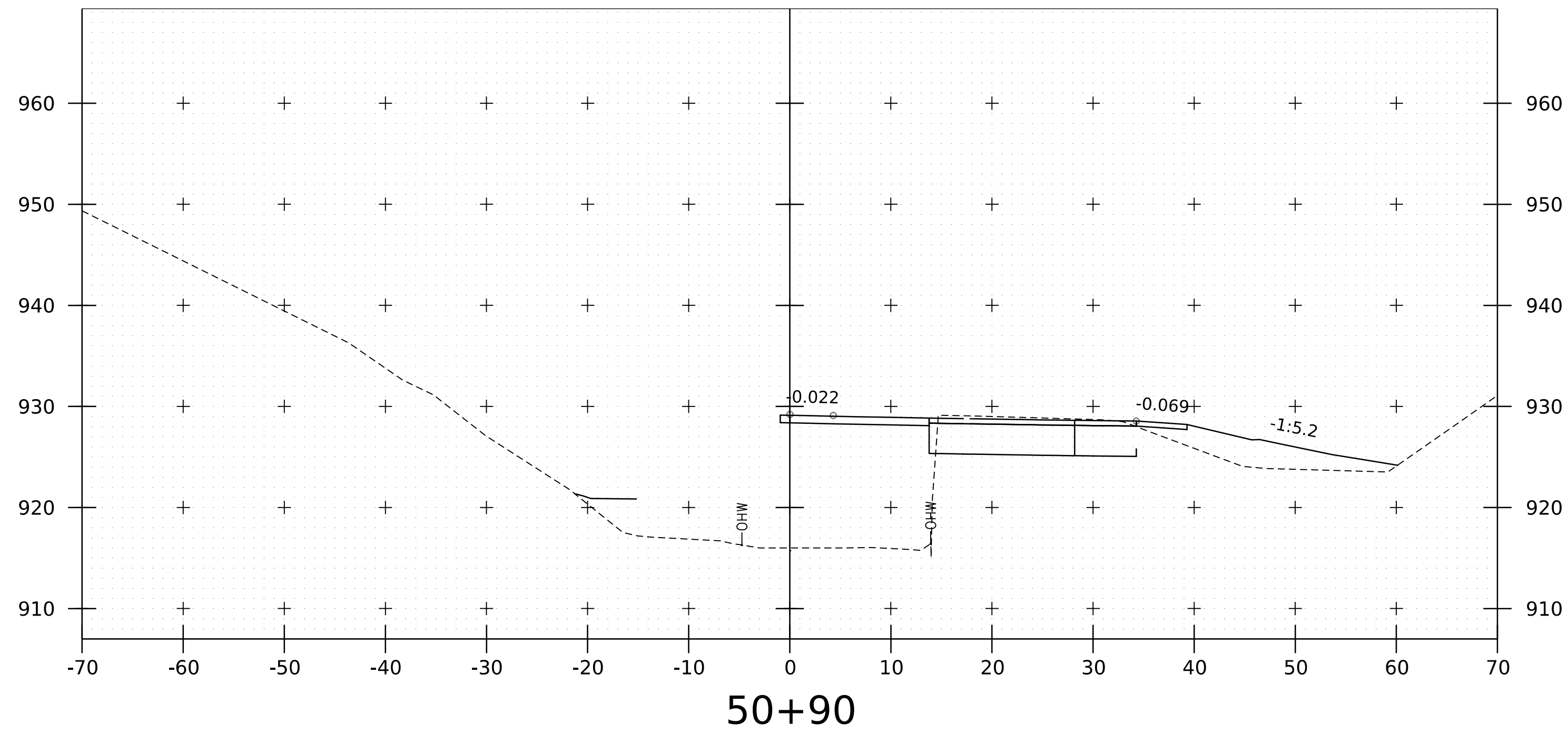
FILE NAME: sl2j618xs.dgn	PLOT DATE: 24-MAR-2023
PROJECT LEADER: A. GOUDREAU	DRAWN BY: A. LEMIEUX
DESIGNED BY: A. LEMIEUX	CHECKED BY: R. HOOD
CROSS SECTIONS 5	SHEET 12 OF 17



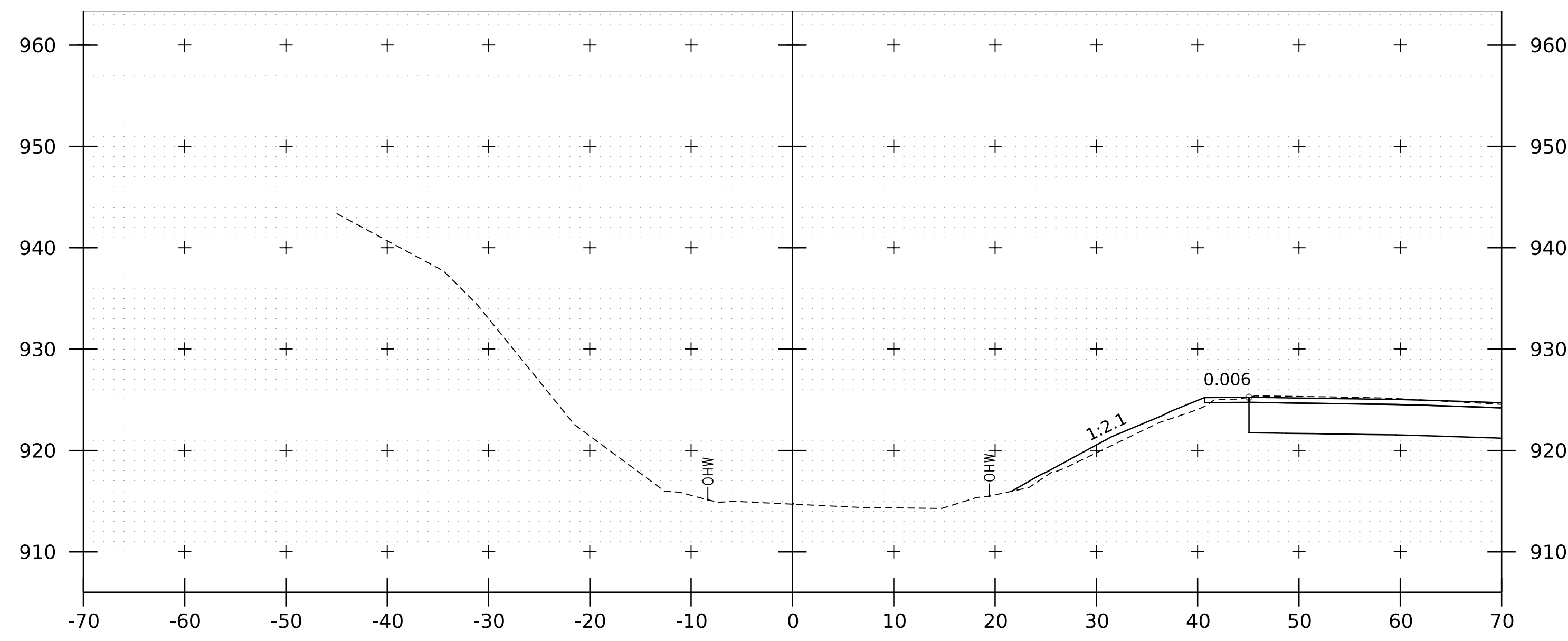
PROJECT NAME:	DANBY	PLOT DATE:	24-MAR-2023
PROJECT NUMBER:	BF 0130(4)	DRAWN BY:	A. LEMIEUX
FILE NAME:	sl2j618xs.dgn	DESIGNED BY:	A. LEMIEUX
PROJECT LEADER:	A. GOUDREAU	CHECKED BY:	R. HOOD
CHANNEL CROSS SECTIONS 1		SHEET	13 OF 17



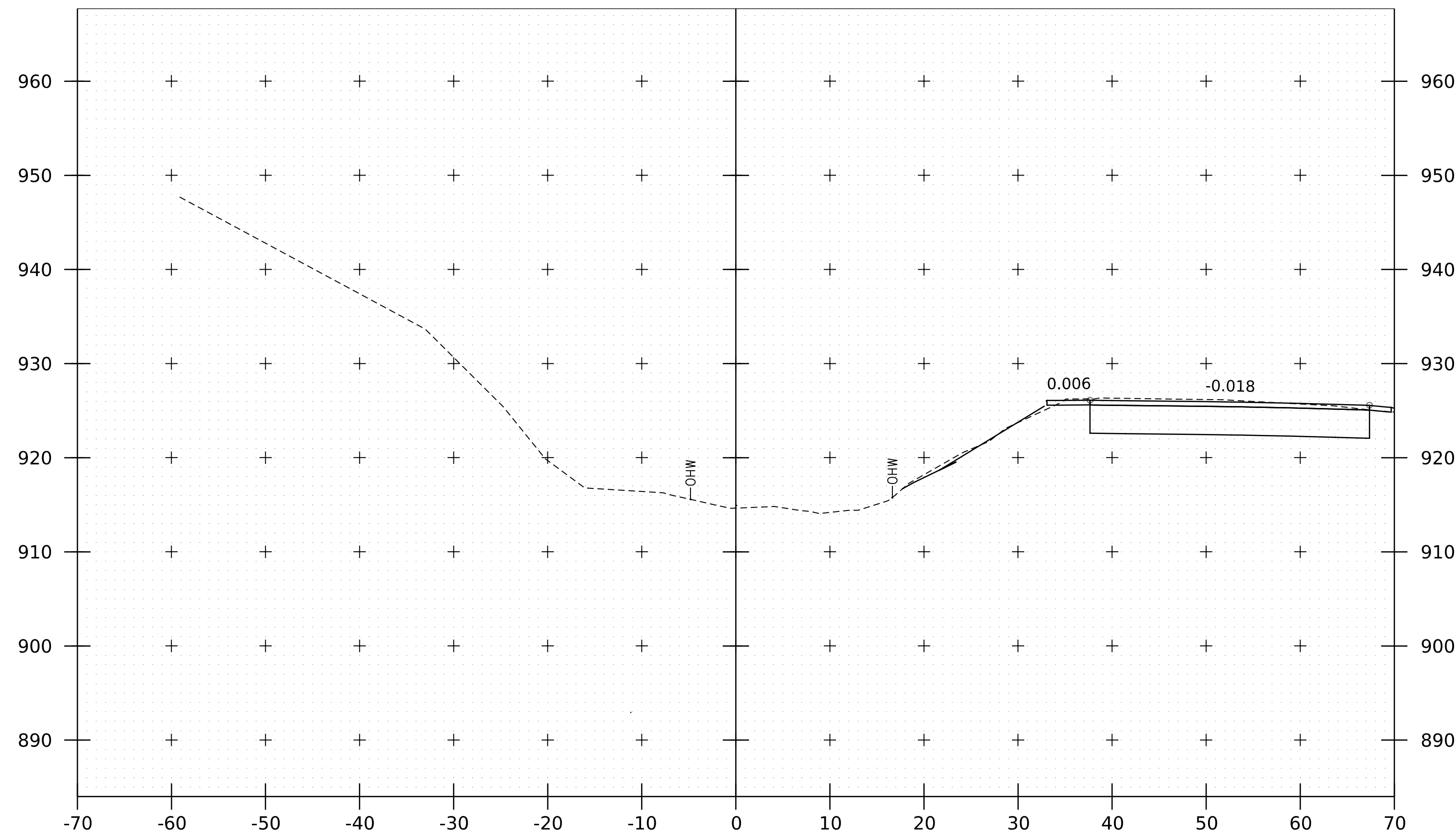
PROJECT NAME:	DANBY
PROJECT NUMBER:	BF 0130(4)
FILE NAME:	sl2j618xs.dgn
PROJECT LEADER:	A. GOUDREAU
DESIGNED BY:	A. LEMIEUX
CHANNEL CROSS SECTIONS 2	
PLOT DATE:	24-MAR-2023
DRAWN BY:	A. LEMIEUX
CHECKED BY:	R. HOOD
SHEET	14 OF 17



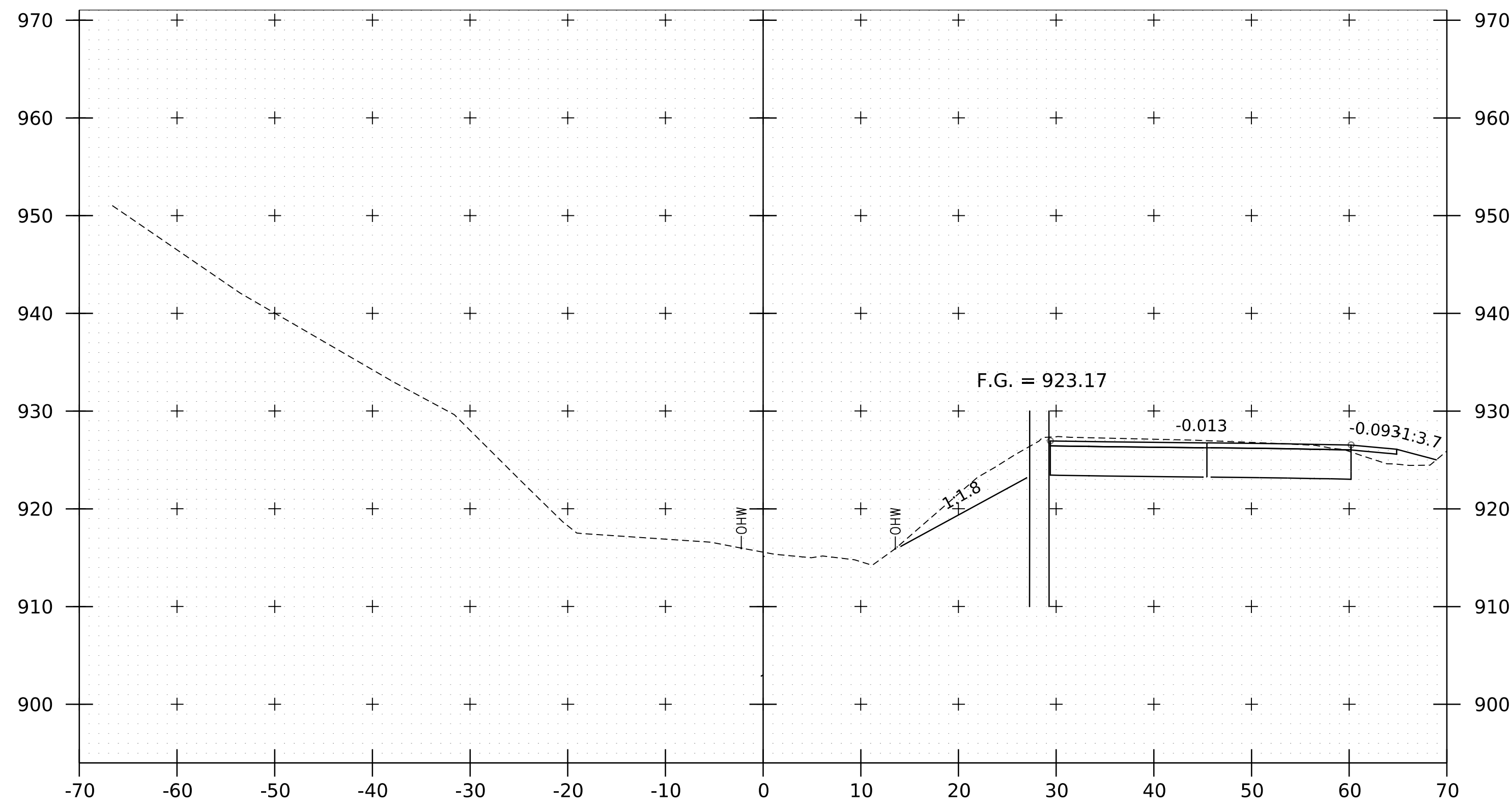
PROJECT NAME:	DANBY
PROJECT NUMBER:	BF 0130(4)
FILE NAME:	sl2j618xs.dgn
PROJECT LEADER:	A. GOUDREAU
DESIGNED BY:	A. LEMIEUX
CHANNEL CROSS SECTIONS	3
PLOT DATE:	24-MAR-2023
DRAWN BY:	A. LEMIEUX
CHECKED BY:	R. HOOD
SHEET	15 OF 17



51+40



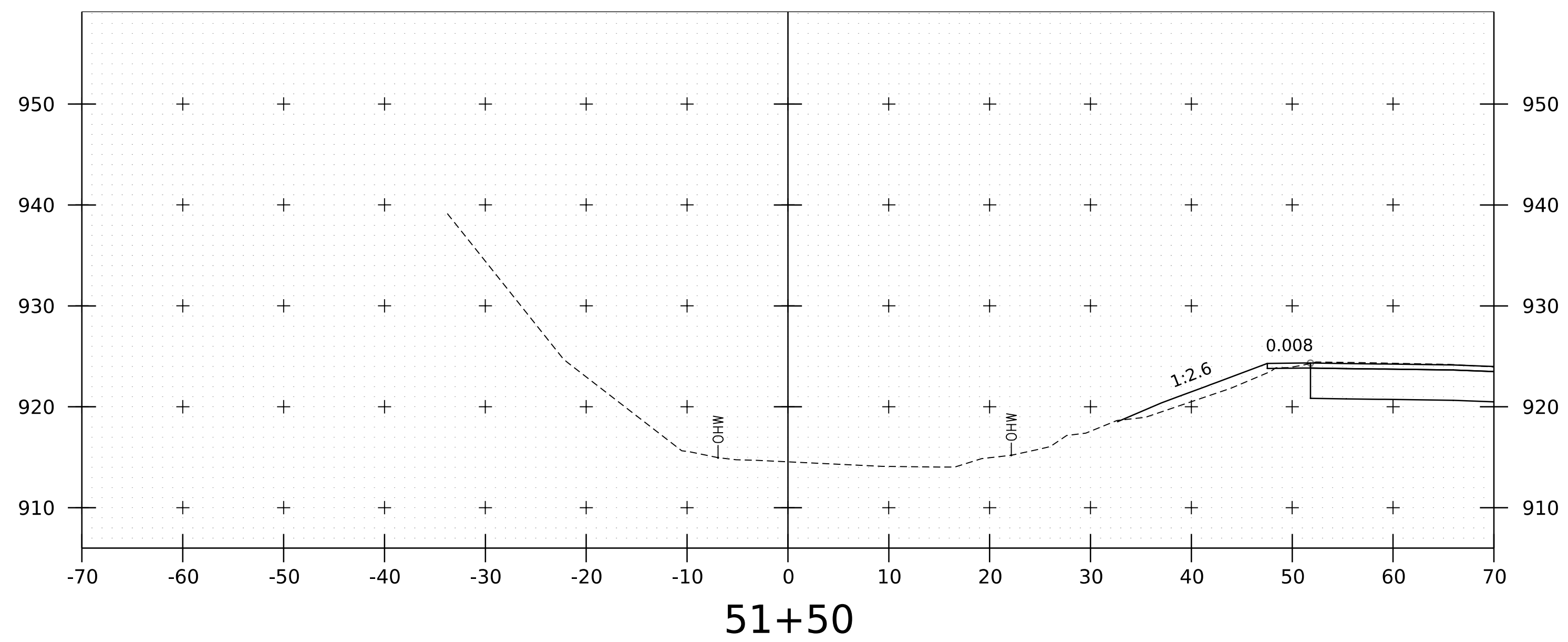
51+30



51+20

PROJECT NAME:	DANBY	PLOT DATE:	24-MAR-2023
PROJECT NUMBER:	BF 0130(4)	DRAWN BY:	A. LEMIEUX
FILE NAME:	sl2j618xs.dfn	CHECKED BY:	R. HOOD
PROJECT LEADER:	A. GOUDREAU	SHEET	16 OF 17
DESIGNED BY:	A. LEMIEUX		
CHANNEL CROSS SECTIONS	4		





PROJECT NAME: DANBY  
 PROJECT NUMBER: BF 0130(4)

FILE NAME: sl2j618xs.dgn	PLOT DATE: 24-MAR-2023
PROJECT LEADER: A. GOUDREAU	DRAWN BY: A. LEMIEUX
DESIGNED BY: A. LEMIEUX	CHECKED BY: R. HOOD
CHANNEL CROSS SECTIONS 5	SHEET 17 OF 17