

REVIEWER NOTES:

1. THE CONCEPTUAL CONSTRUCTION LIMITS SHOWN ON THE PLANS ARE REPRESENTATIVE OF THE TOE OF SLOPE LIMITS. THESE LIMITS WILL BE REVISED FOR PRELIMINARY PLANS.
2. SUPERELEVATION TRANSITION AT SOUTHERN APPROACH NEEDS TO BE REFINED TO MATCH EXISTING.
3. ADDITIONAL TOPOGRAPHICAL SURVEY WILL BE REQUIRED TO DETERMINE THE TEMPORARY CONSTRUCTION LIMITS FROM STA. 11+50 RT TO 13+50 RT +/-.

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF WORCESTER

COUNTY OF WASHINGTON

ROUTE NO: VERMONT ROUTE 12 (MAJOR COLLECTOR)

BRIDGE NO: 87

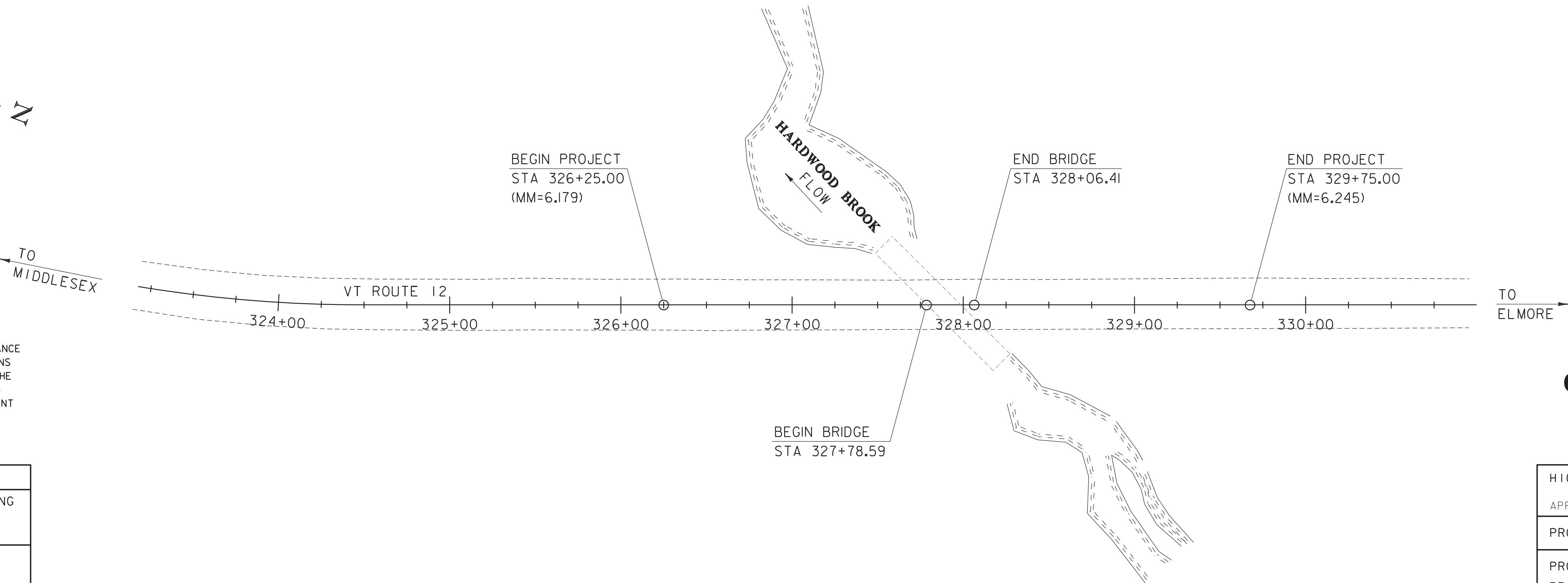
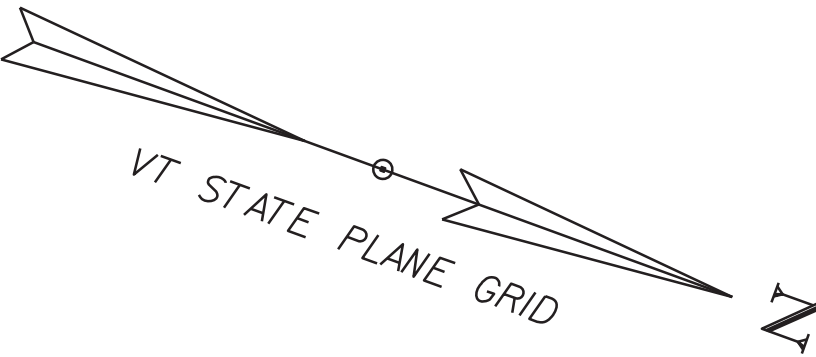
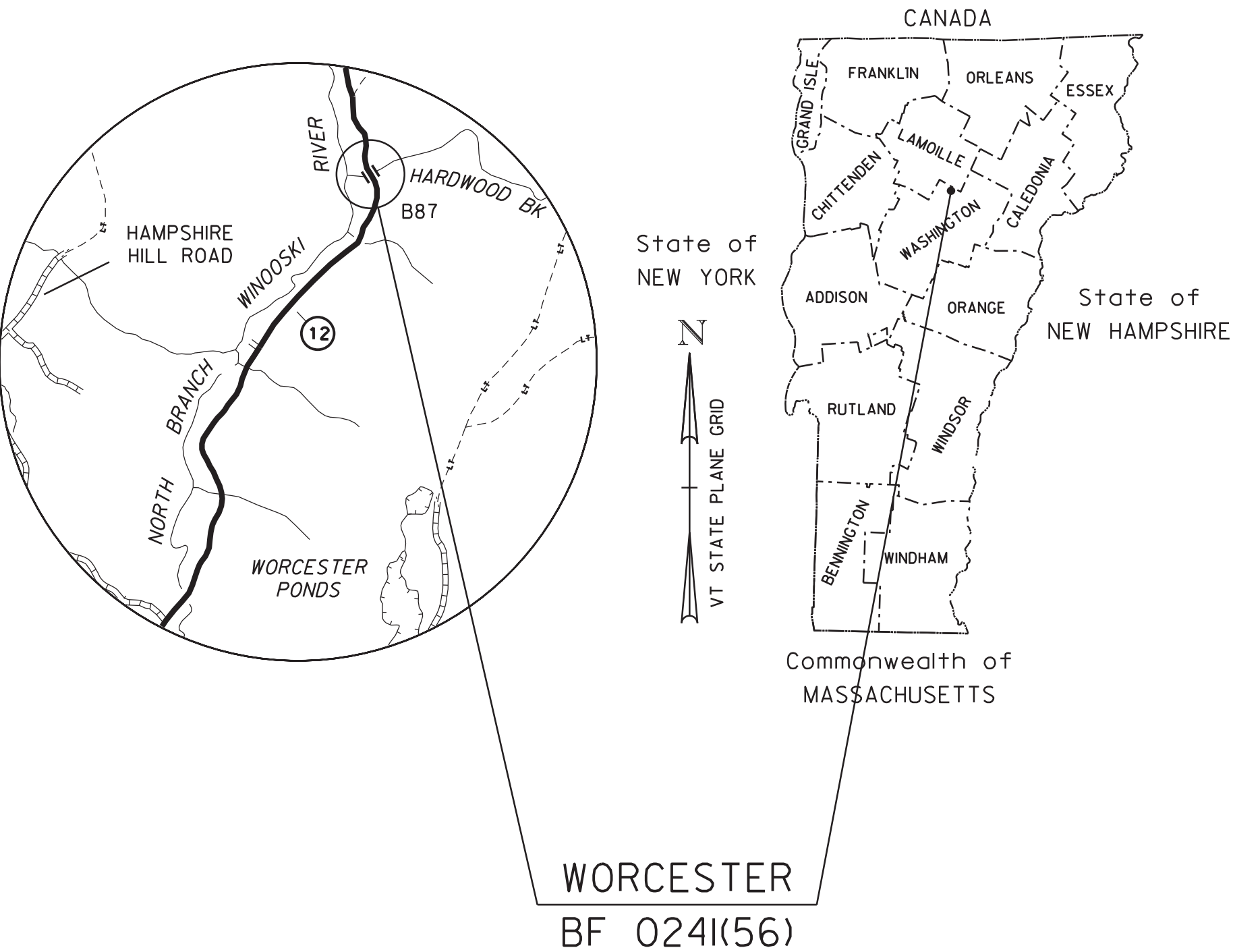
PROJECT LOCATION: BEGINNING ON VT ROUTE 12 APPROXIMATELY 4.5 MILES NORTH OF THE JUNCTION WITH CALAIS ROAD AND EXTENDING NORTHERLY APPROXIMATELY 0.062 MILES

PROJECT DESCRIPTION: REPLACE CULVERT WITH PRECAST CONCRETE BOX

LENGTH OF BRIDGE: 27.82 FEET

LENGTH OF ROADWAY: 322.18 FEET

LENGTH OF PROJECT: 350.00 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 :	R. GILMAN, B. HERRING AND H. MCGOWAN
SURVEYED DATE :	7/30/2019
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (2011)

SCALE 1" = 40' - 0"

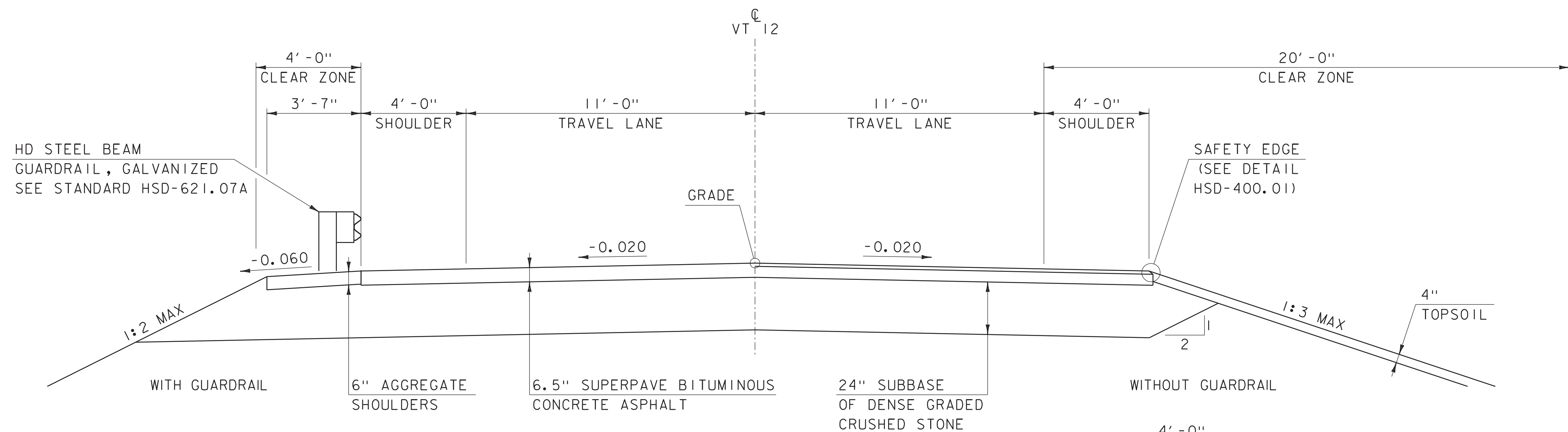
CONCEPTUAL PLANS

4/29/2021

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : L. STONE	
PROJECT NAME :	WORCESTER
PROJECT NUMBER :	BF 0241 (56)
SHEET 1 OF 23 SHEETS	

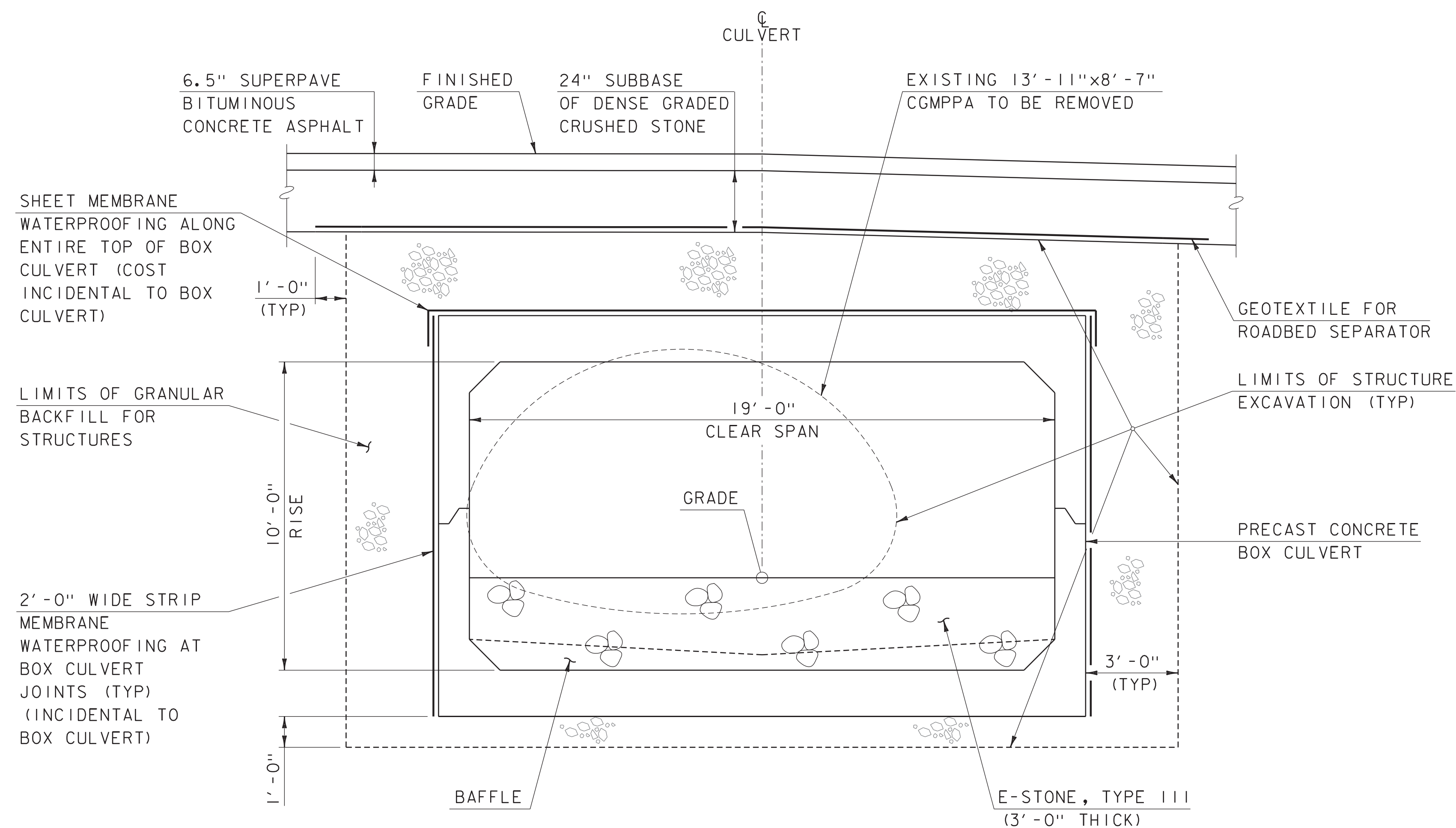
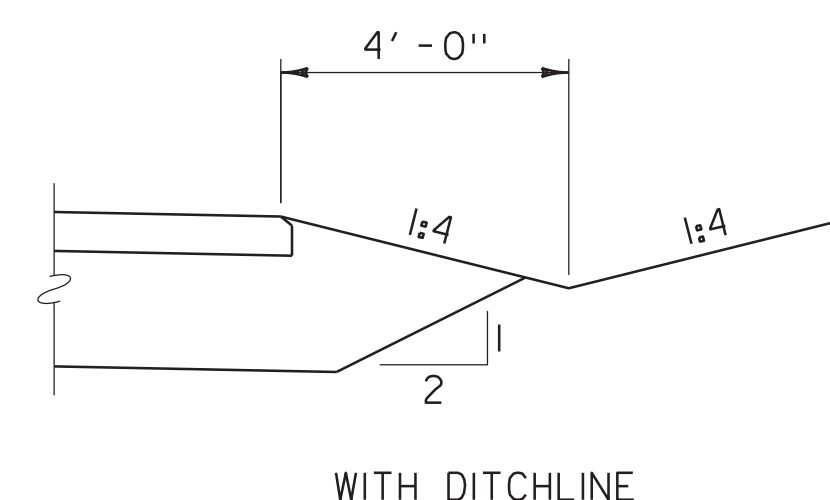
PRELIMINARY INFORMATION SHEET (CULVERT)

[illegible]



PROPOSED VT 12 TYPICAL SECTION

SCALE: $\frac{3}{8}" = 1'-0"$



CULVERT TYPICAL SECTION

SCALE: $\frac{3}{8}" = 1'-0"$

MATERIAL TOLERANCES

(IF USED ON PROJECT)

MATERIAL TOLERANCES	
(IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

NOTES

- ROADWAY TYPICAL SECTION IS A GENERAL REPRESENTATION OF TYPICAL ROADWAY MATERIALS AND SLOPES. REFER TO THE ROADWAY PLANS FOR LOCATION OF GUARDRAIL AND SLOPE TIE IN LOCATIONS.
- 6.5" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT SHALL CONSIST OF THE FOLLOWING:
 - 1.5" TYPE IVS WEARING COURSE OVER
 - 1.5" TYPE IVS BINDER COURSE
 - 3.5" TYPE IIS BASE COURSE
- EMULSIFIED ASPHALT IS TO BE APPLIED AT A RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE COURSES OF NEW PAVEMENT AND 0.08 GAL/SY ON COLD PLANED SURFACES AS DIRECTED BY THE ENGINEER.

PROJECT NAME: WORCESTER

PROJECT NUMBER: BF 024I(56)

FILE NAME: z19b213typ.dgn

PROJECT LEADER: L.STONE

DESIGNED BY: J.RIPLEY

TYPICAL SECTIONS

PLOT DATE: 4/29/2021

DRAWN BY: P.DUSTIN

CHECKED BY: J.BICJA

SHEET 3 OF 23

Hoyle, Tanner
& Associates, Inc.

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 — BF — x — x —	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
— $\frac{P}{L}$ — — $\frac{P}{L}$ —	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 SYMBOLOLOGY

EPSC MEASURES	
ONNNNOONNNNO	FILTER CURTAIN
— x — x — x — x —	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
—— HAZ ———	THREATENED & ENDANGERED SPECIES
—— AG ———	HAZARDOUS WASTE AREA
—— HABITAT ———	AGRICULTURAL LAND
—— FLOOD PLAIN ———	FISH & WILDLIFE HABITAT
— OHW —	FLOOD PLAIN
— — — — —	ORDINARY HIGH WATER (OHW)
— — — — —	STORM WATER
— — — — —	USDA FOREST SERVICE LANDS
— — — — —	WILDLIFE HABITAT SUIT/CONN

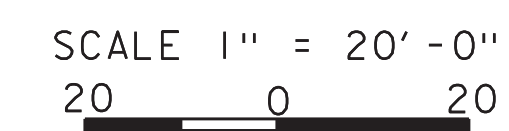
ARCHEOLOGICAL & HISTORIC	
—— ARCH ———	ARCHEOLOGICAL BOUNDARY
—— HISTORIC DIST ———	HISTORIC DISTRICT BOUNDARY
—— HISTORIC ———	HISTORIC AREA
Ⓜ	HISTORIC STRUCTURE

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
○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○○○○○○○○○○○○○○○○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
~~~~~	BODY OF WATER EDGE
~~~~~	LEDGE EXPOSED

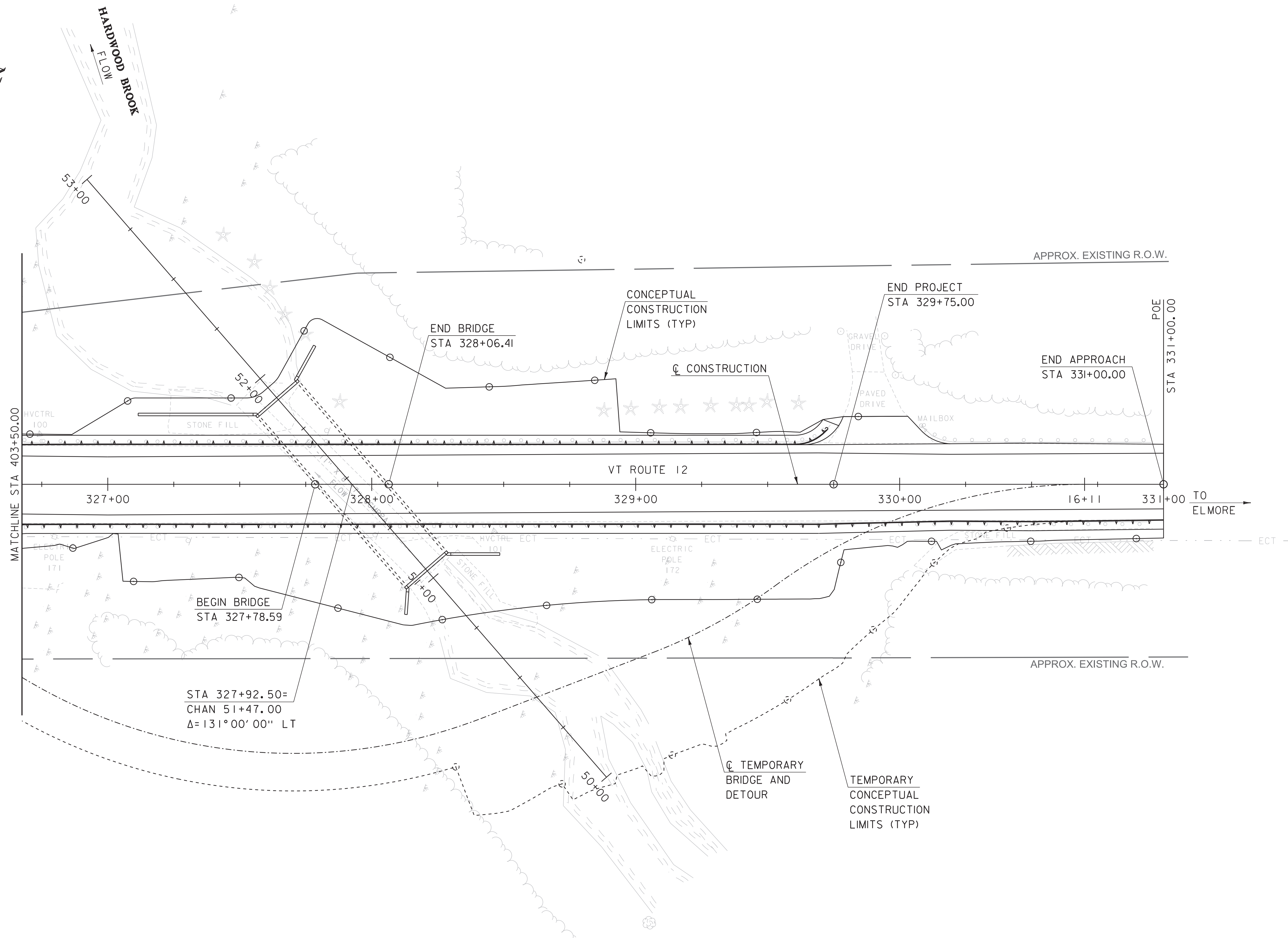
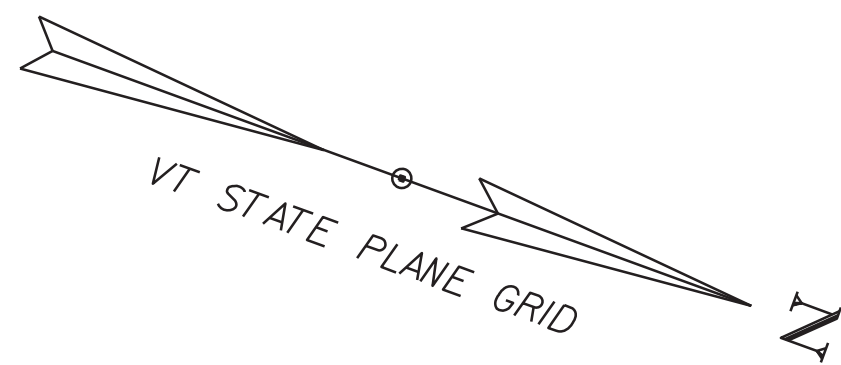
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PROJECT NUMBER:	BF 024I(56)
FILE NAME: z19b213leg.dgn	PLOT DATE: 4/29/2021
PROJECT LEADER: L.STONE	DRAWN BY: P.DUSTIN
DESIGNED BY: J.RIPLEY	CHECKED BY: J.BICJA
CONVENTIONAL SYMBOLOLOGY LEGEND	SHEET 4 OF 23





PLOT DATE: 4/29/2021  
DRAWN BY: P.DUSTIN  
CHECKED BY: S.HAAS  
SHEET 5 OF 23





EXISTING CULVERT INFORMATION  
13'-11" x 8'-7" CGMPPA, 96' LONG  
BUILT 1961  
6.5' AVERAGE COVER  
93 SQ.FT. WATERWAY AREA

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

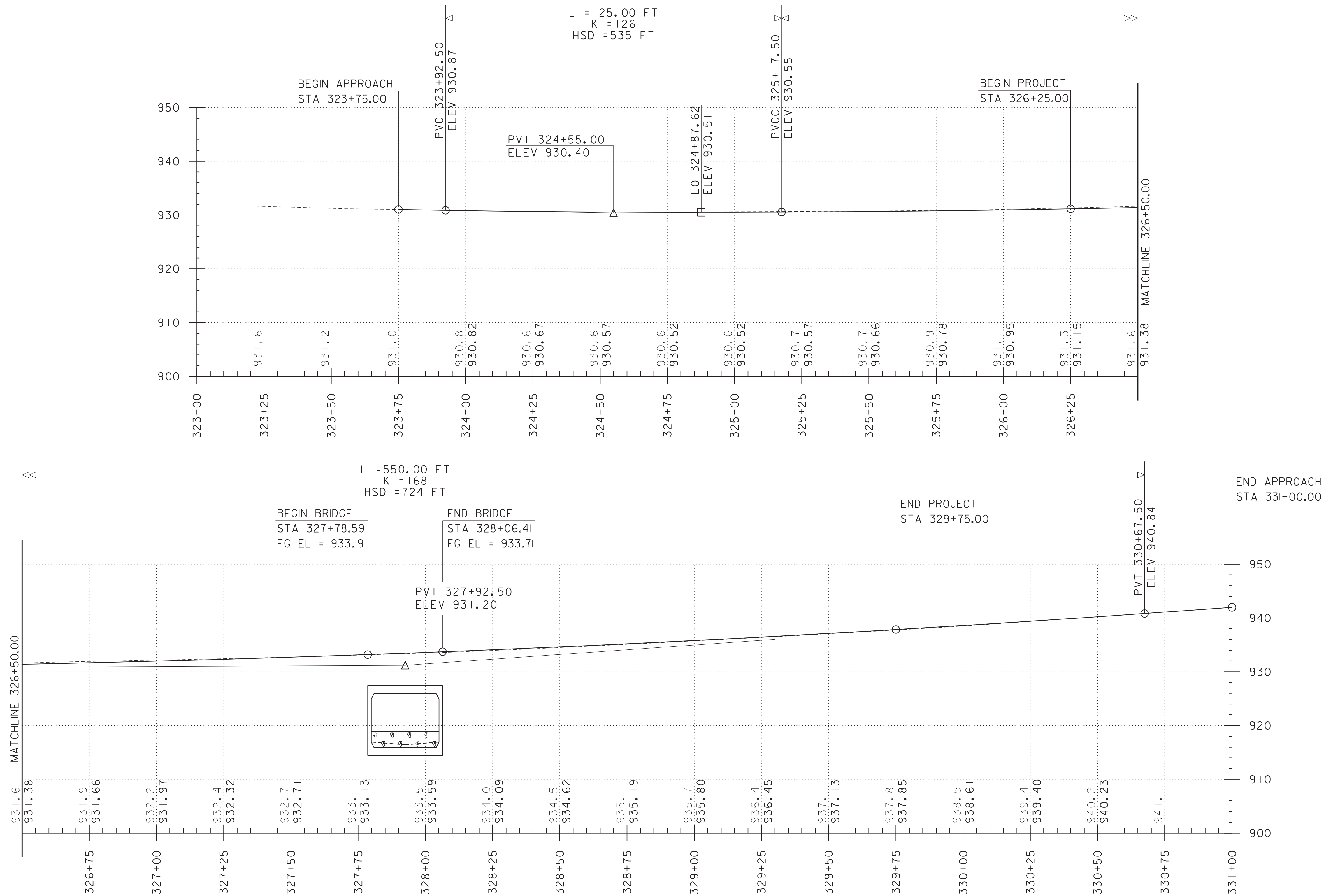
Hoyle, Tanner  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213bdr_lay.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
LAYOUT SHEET 2

PLOT DATE: 4/29/2021  
DRAWN BY: P.DUSTIN  
CHECKED BY: S.HAAS  
SHEET 6 OF 23





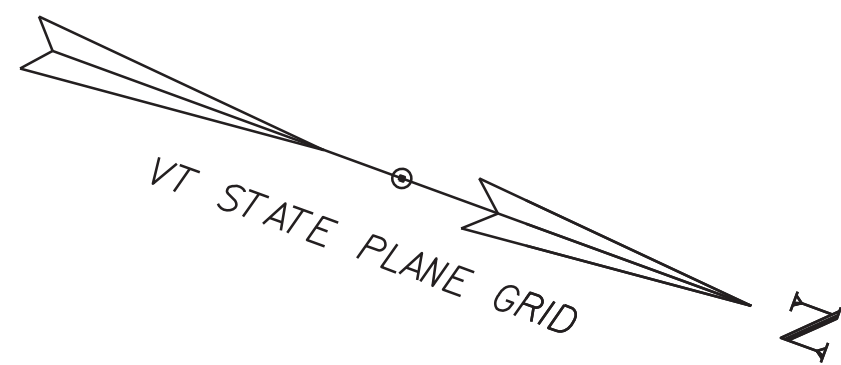
VT ROUTE 12 PROFILE  
SCALE: HORIZONTAL 1" = 20'-0"  
VERTICAL 1" = 10'-0"

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

Hoyle, Tanner  
& Associates, Inc.

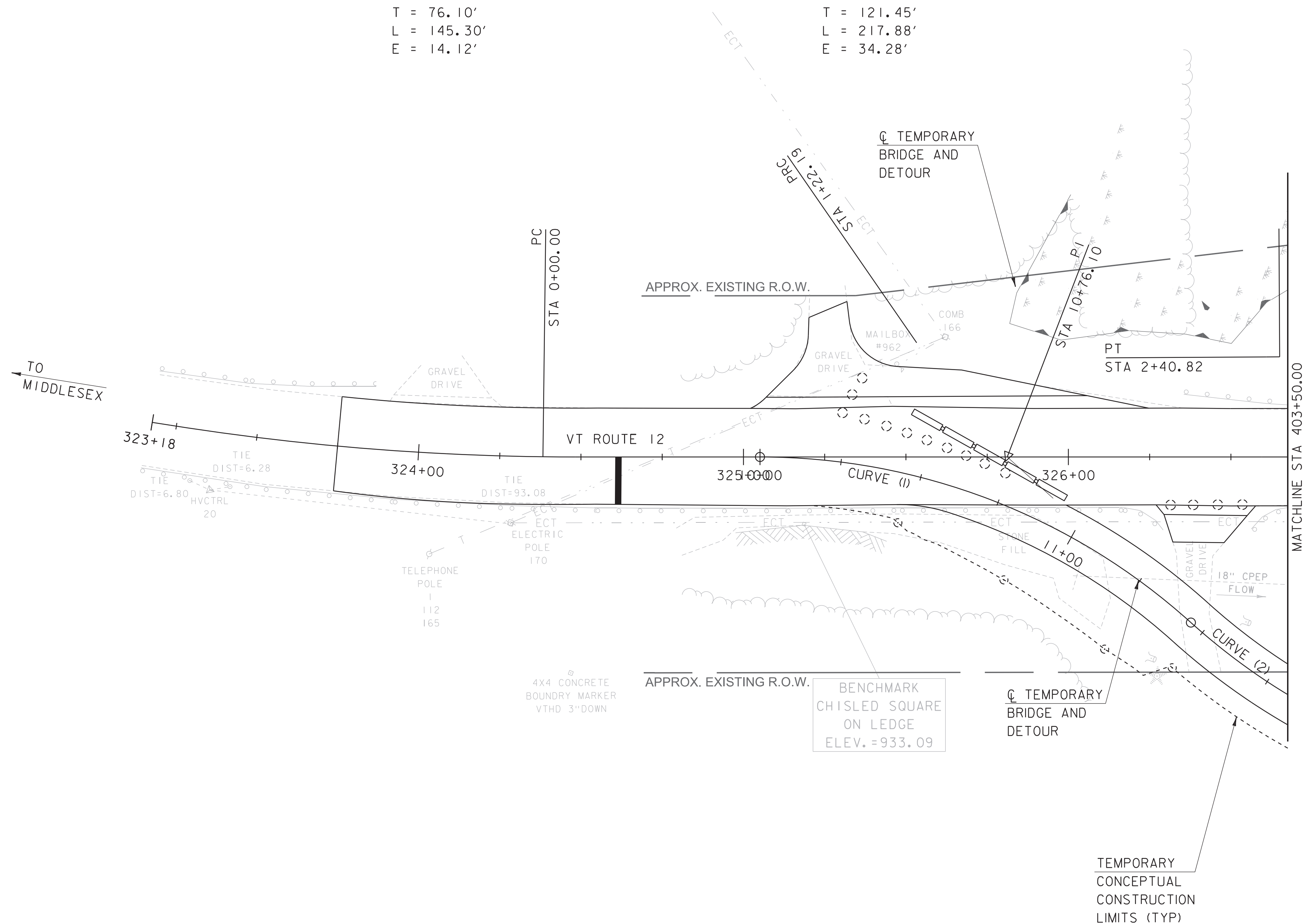
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PROJECT NUMBER:	BF 0241(56)	PROJECT LEADER:	L.STONE	DRAWN BY:	N.CENTERBAR
		DESIGNED BY:	N.CENTERBAR	CHECKED BY:	S.HAAS
		PROFILE SHEET		SHEET	7 OF 23





CURVE (1)  
DELTA = 42°02'43"  
D = 28°56'14"  
R = 198.00'  
T = 76.10'  
L = 145.30'  
E = 14.12'

CURVE (2)  
DELTA = 63°02'52"  
D = 28°56'14"  
R = 198.00'  
T = 121.45'  
L = 217.88'  
E = 34.28'



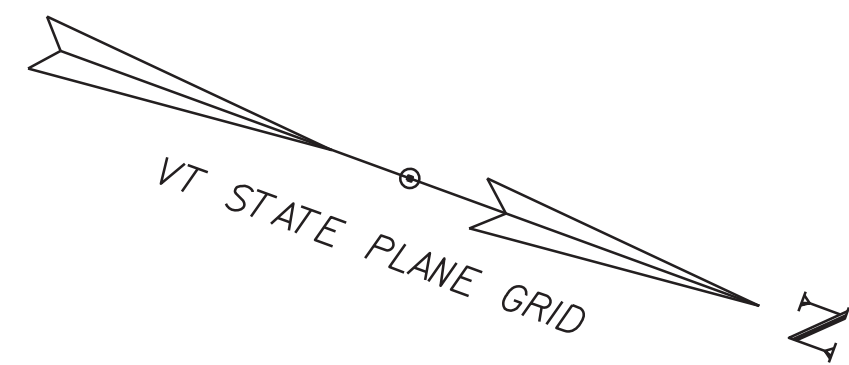
Hoyle, Tanner  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213bdr_tcp.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
TRAFFIC CONTROL SHEET 1

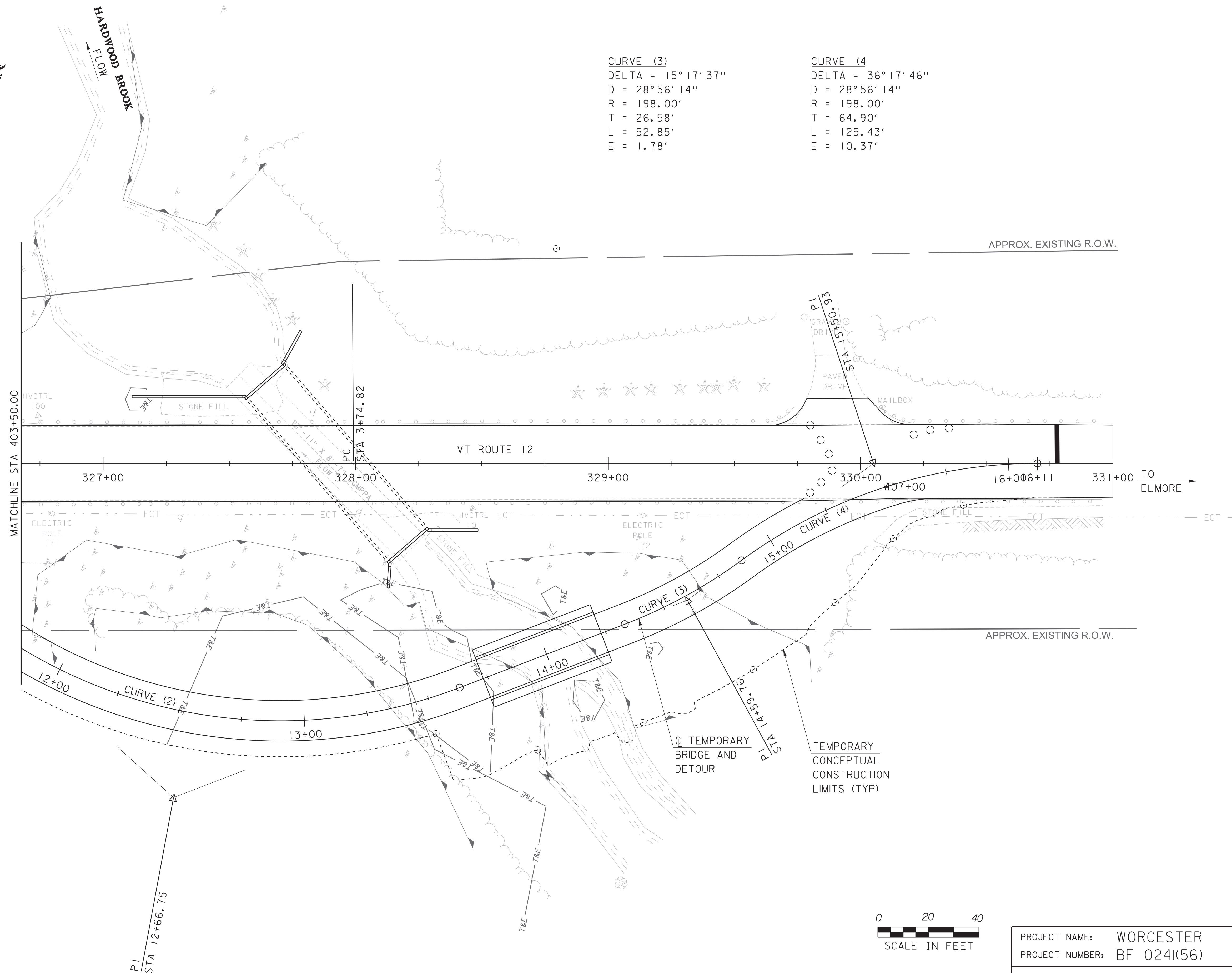
PLOT DATE: 4/29/2021  
DRAWN BY: P.DUSTIN  
CHECKED BY: S.HAAS  
SHEET 8 OF 23





CURVE (3)  
DELTA = 15° 17' 37"  
D = 28° 56' 14"  
R = 198.00'  
T = 26.58'  
L = 52.85'  
E = 1.78'

CURVE (4)  
DELTA = 36° 17' 46"  
D = 28° 56' 14"  
R = 198.00'  
T = 64.90'  
L = 125.43'  
E = 10.37'



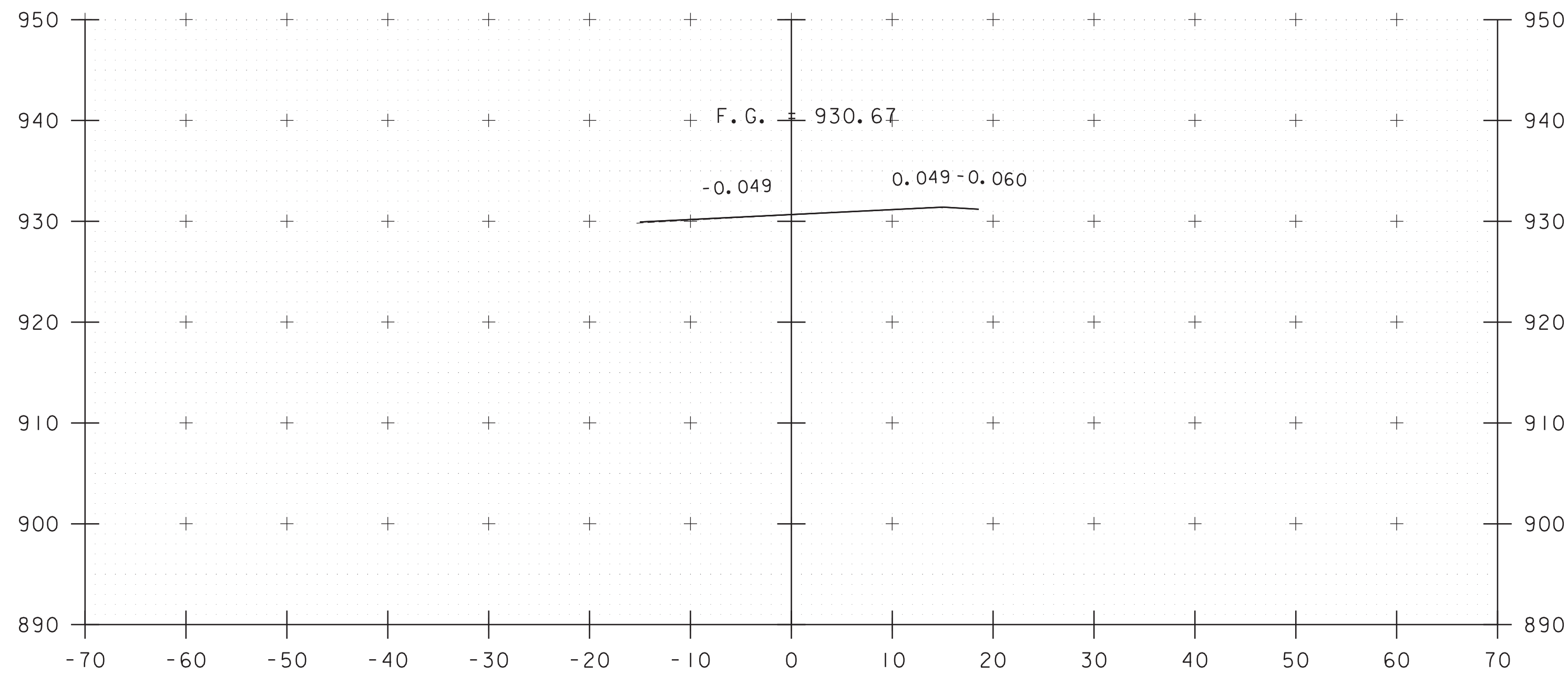
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 024I(56)

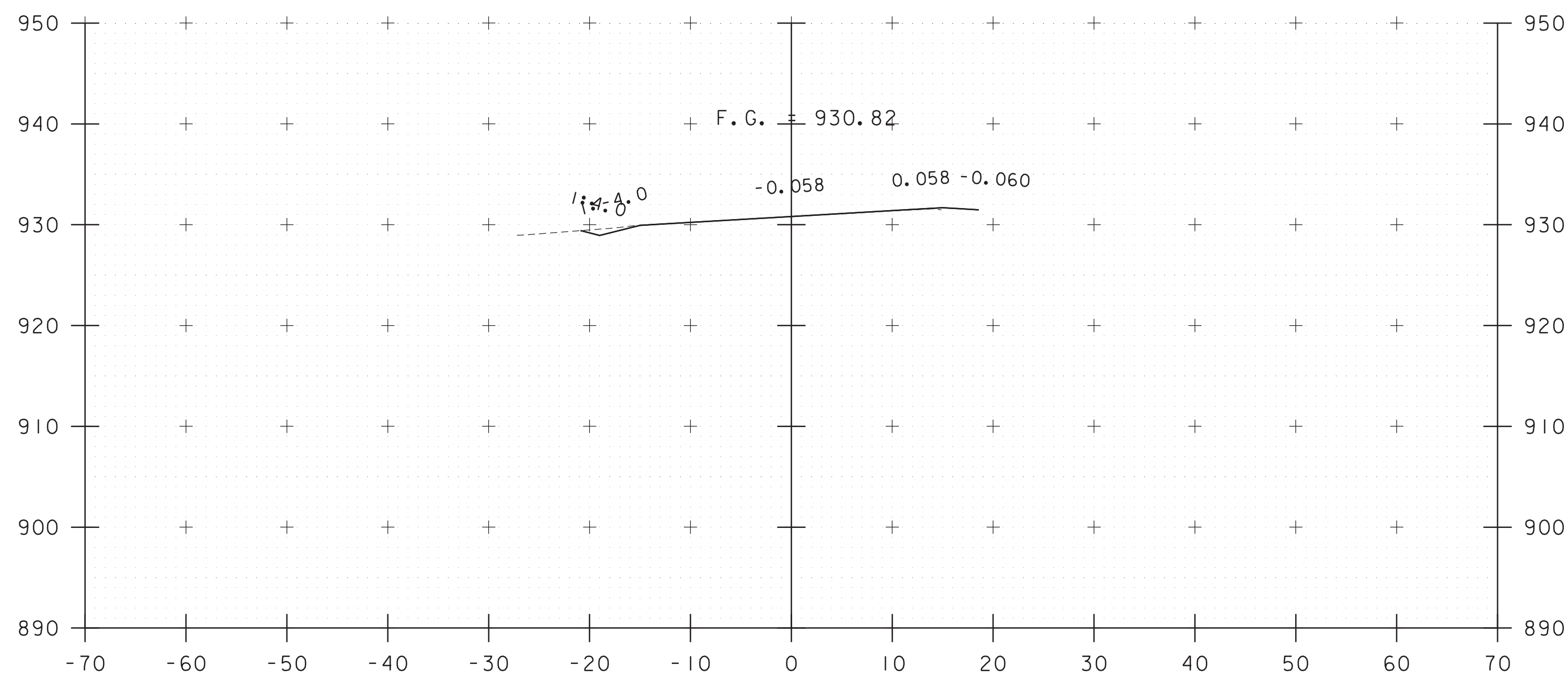
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PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
TRAFFIC CONTROL SHEET 2

PLOT DATE: 4/29/2021  
DRAWN BY: P.DUSTIN  
CHECKED BY: S.HAAS  
SHEET 9 OF 23



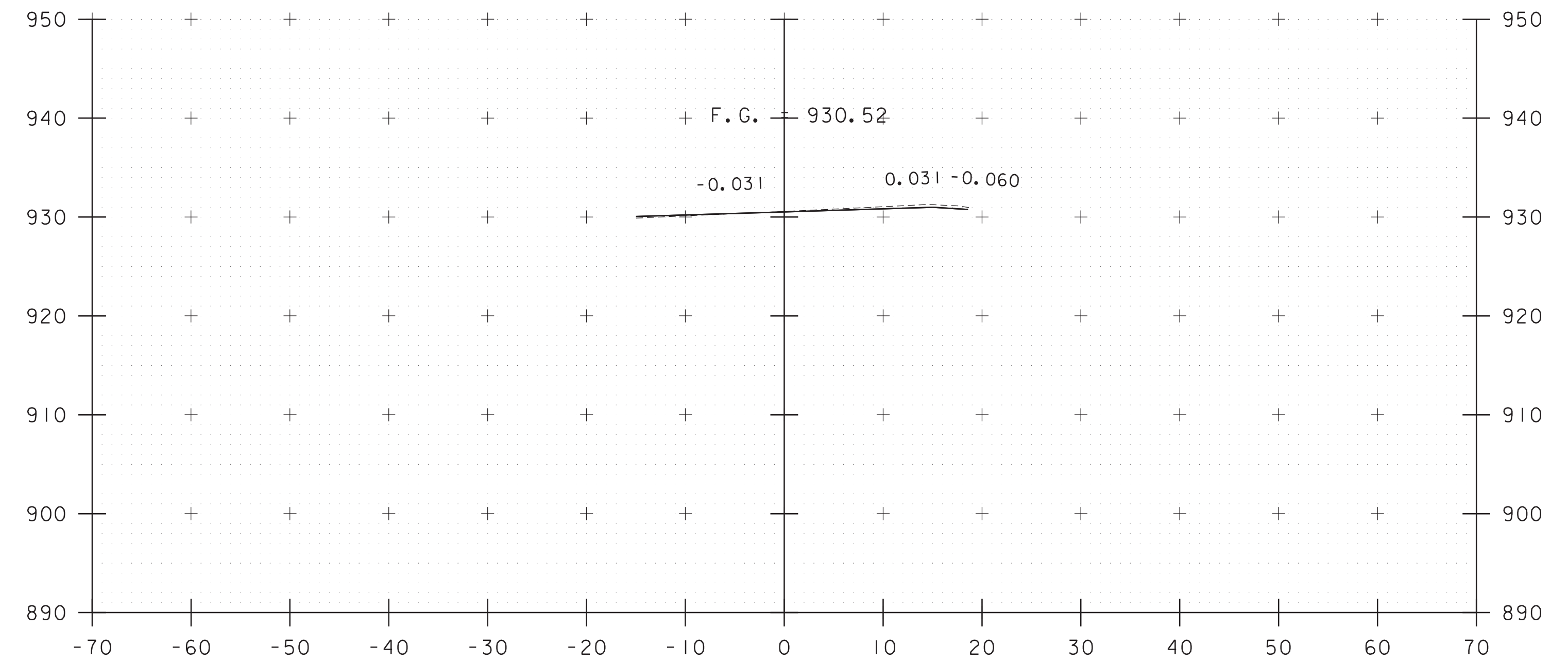


324+25

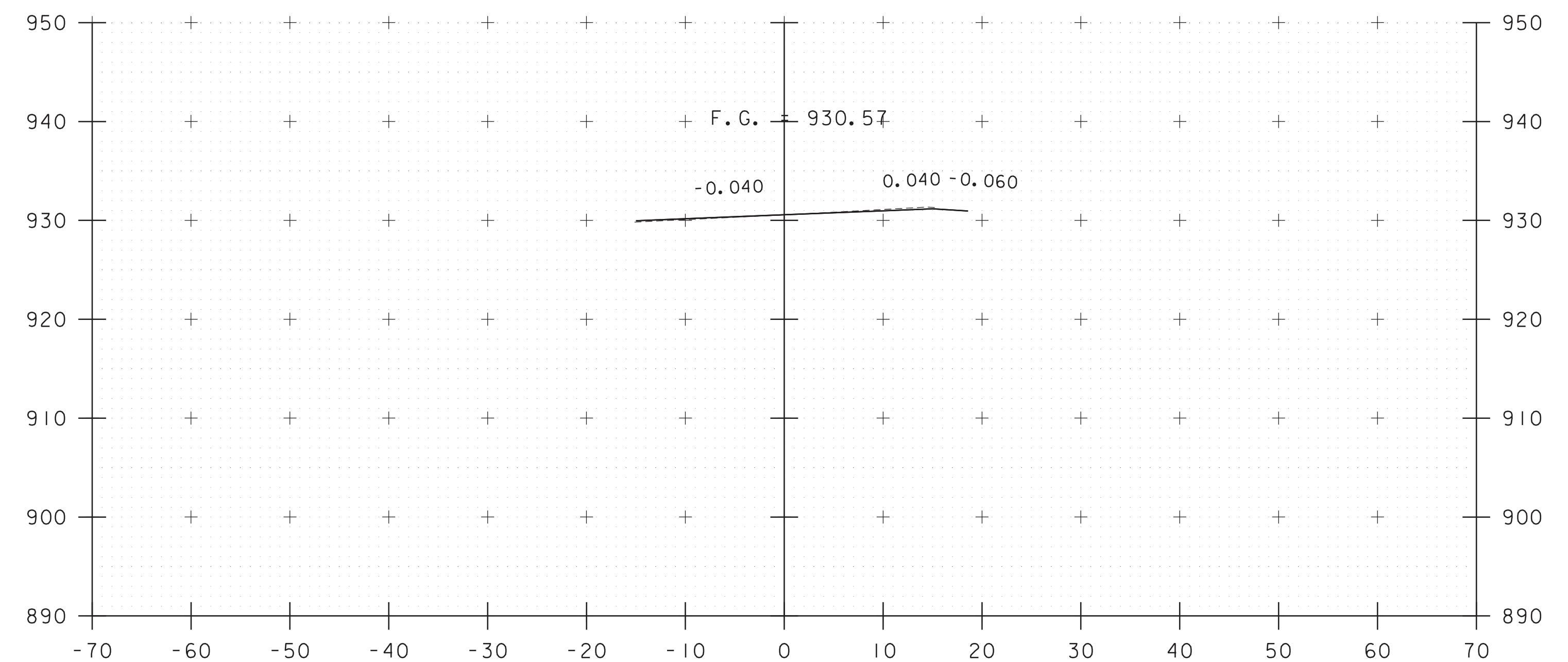


324+00

BEGIN APPROACH  
STA 323+75.00  
MATCH EXISTING



324+75



324+50

STA. 324+00 TO STA. 324+75

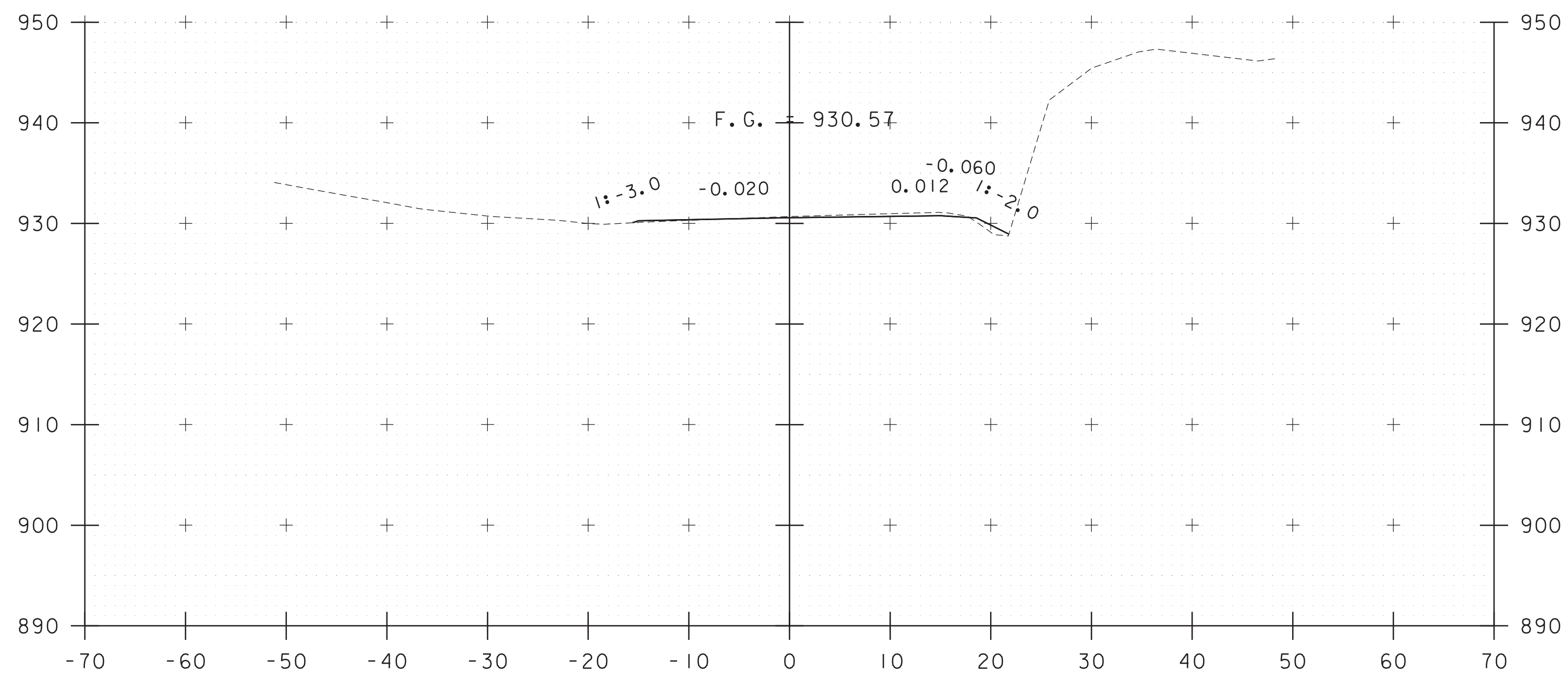
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

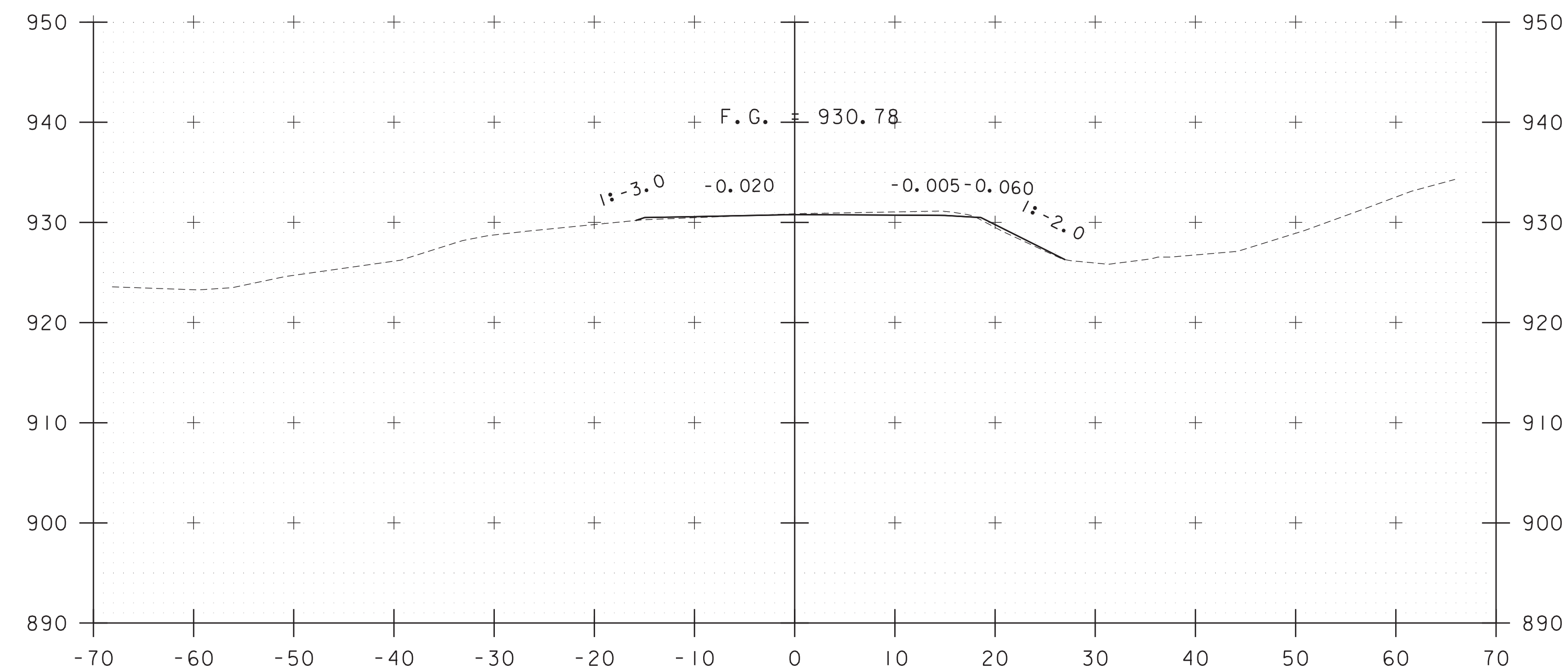
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS I

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 10 OF 23

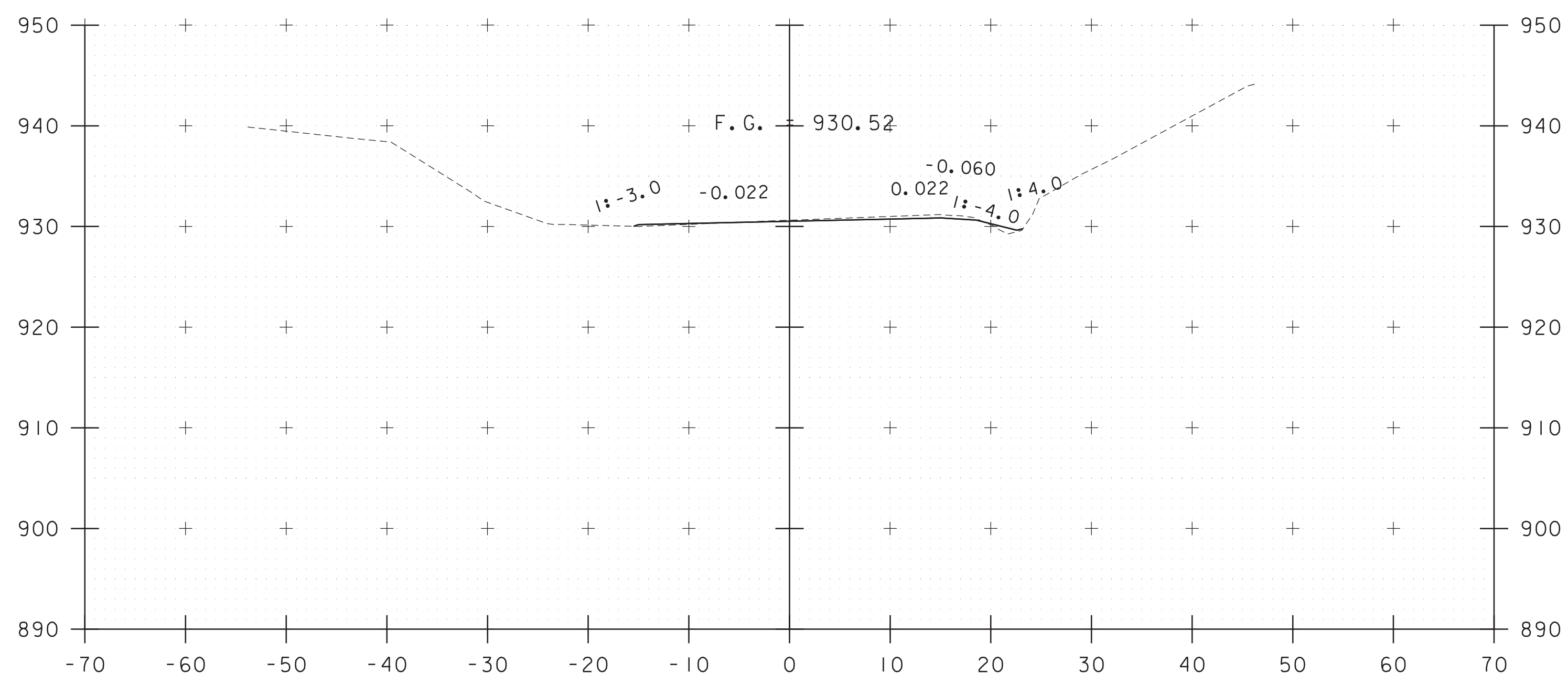




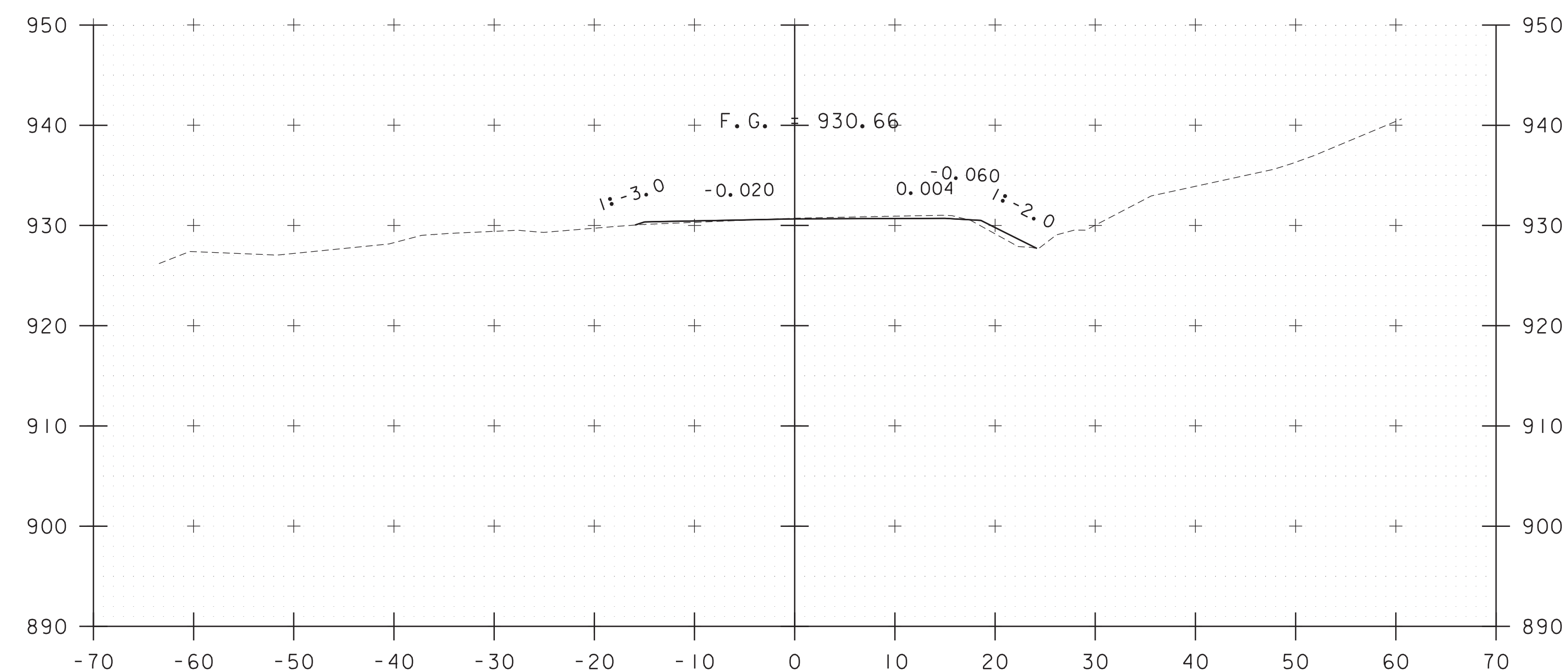
325+25



325+75



325+00



325+50

STA. 325+00 TO STA. 325+75

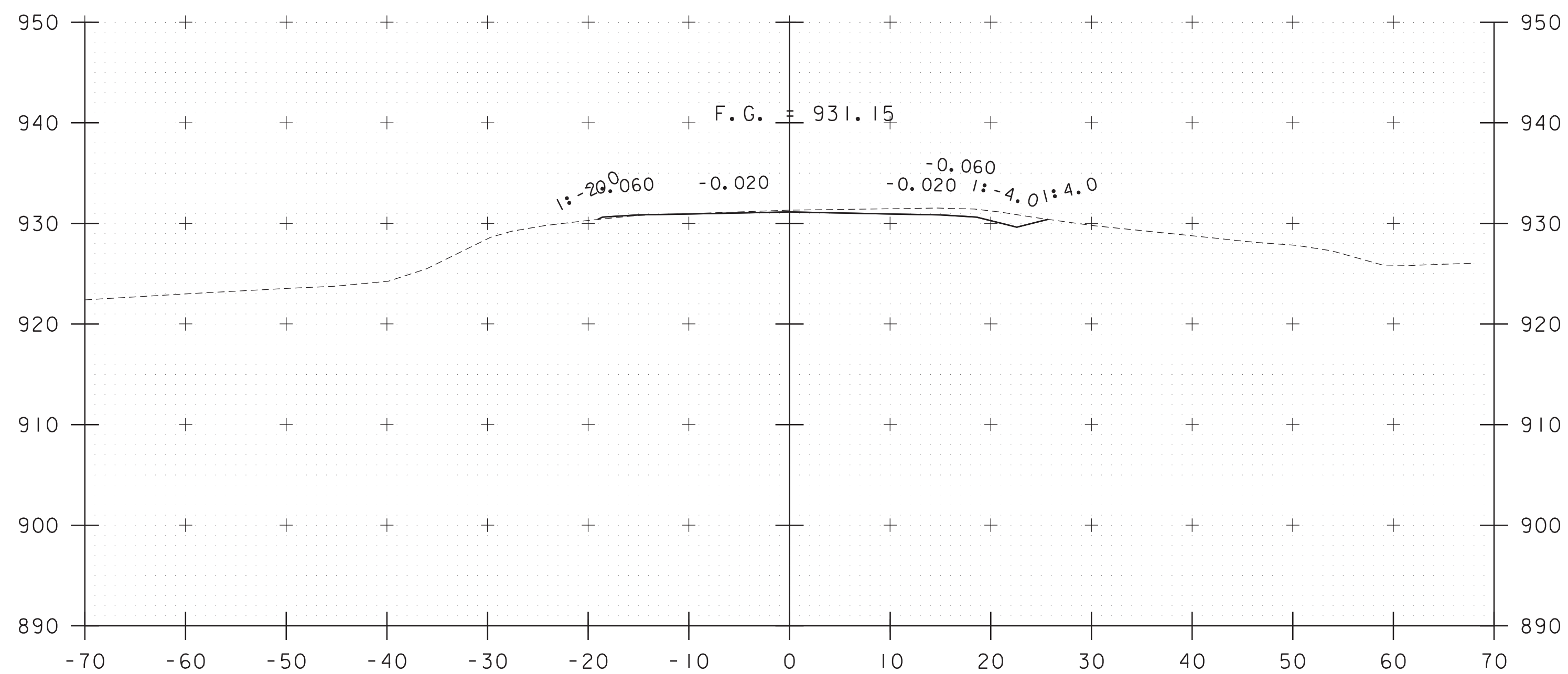
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS 2

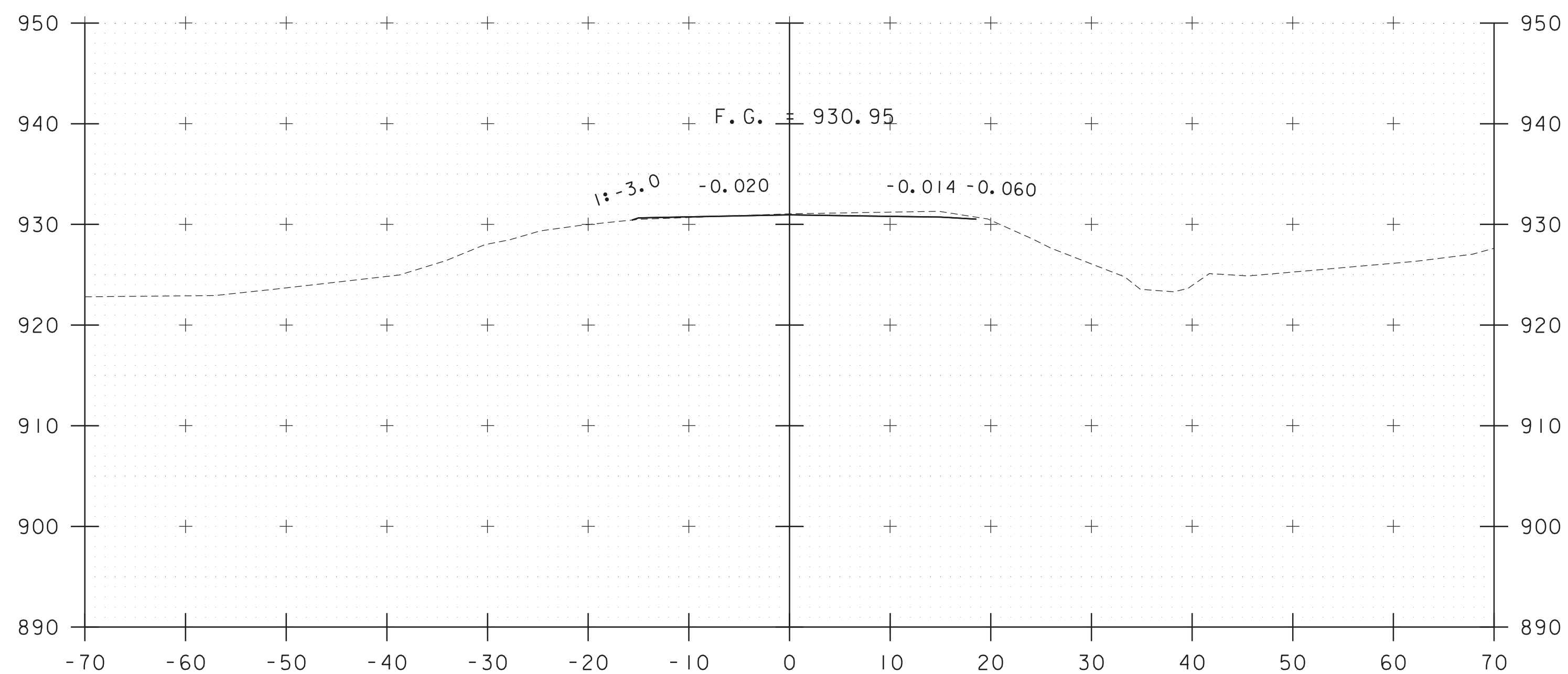
PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET II OF 23



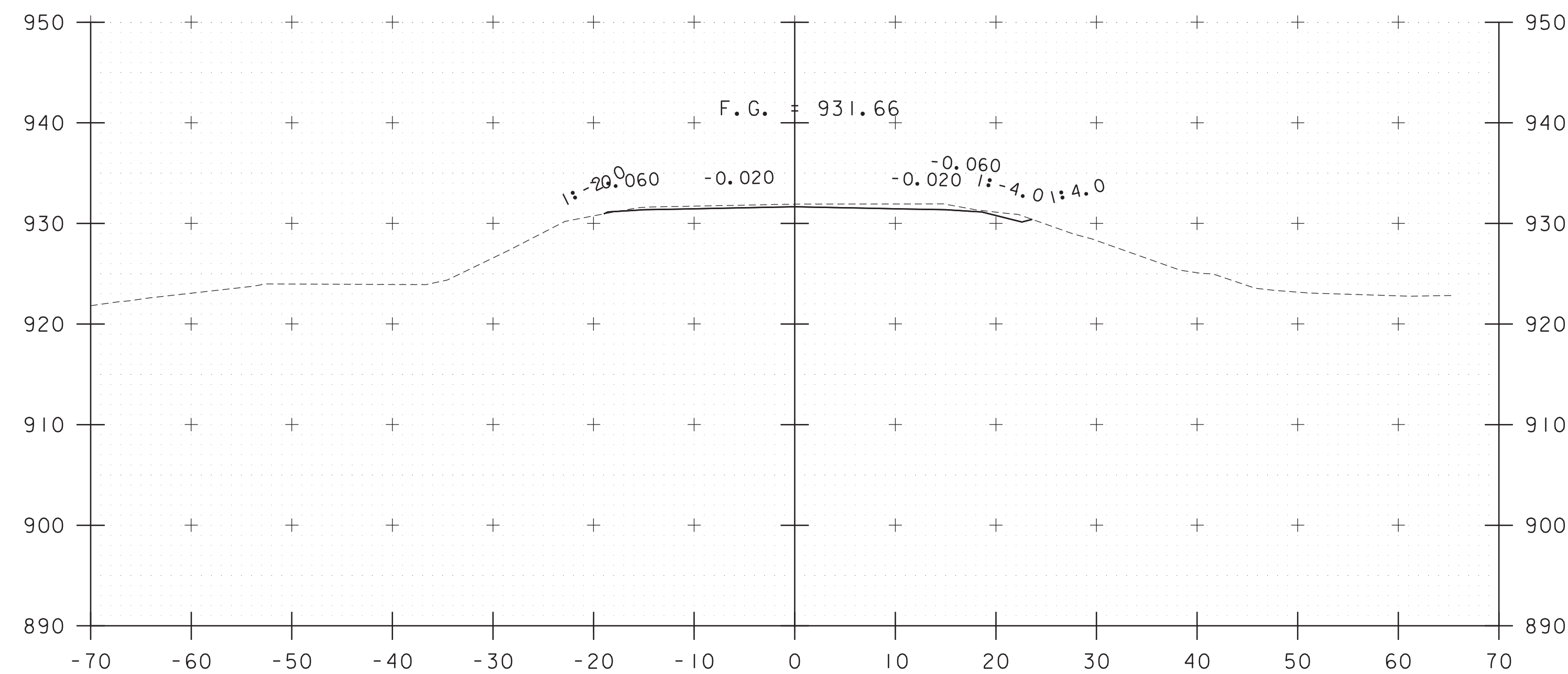


BEGIN PROJECT  
STA 326+25.00

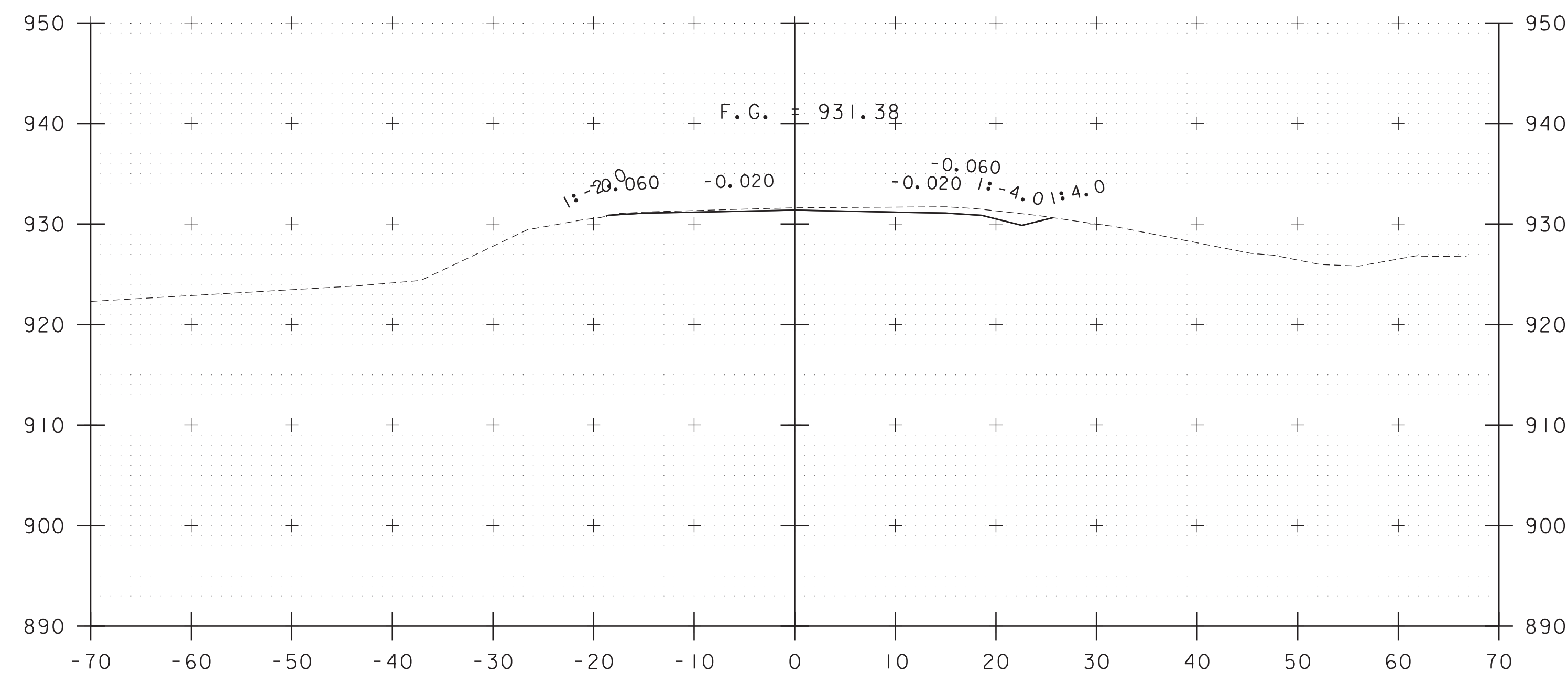
326+25



326+00



326+75



326+50

STA. 326+00 TO STA. 326+75

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& Associates, Inc.

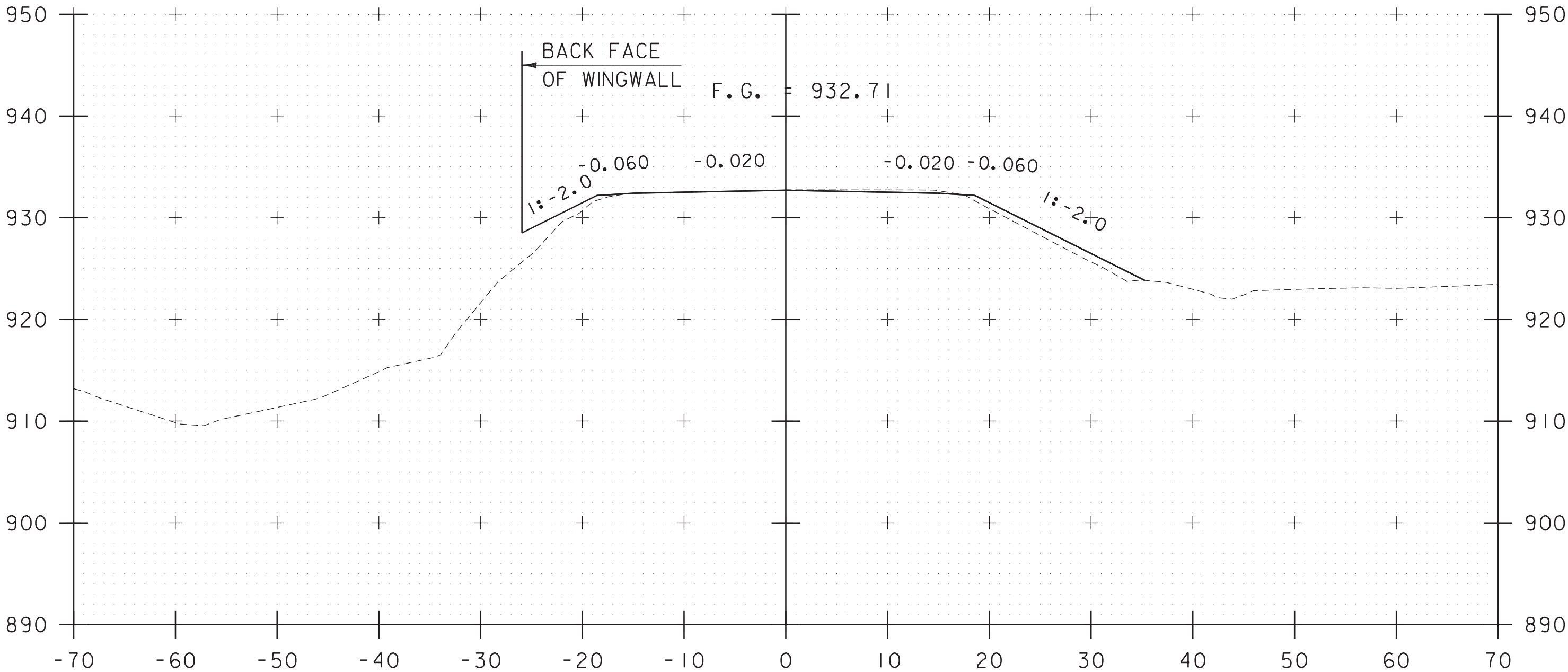
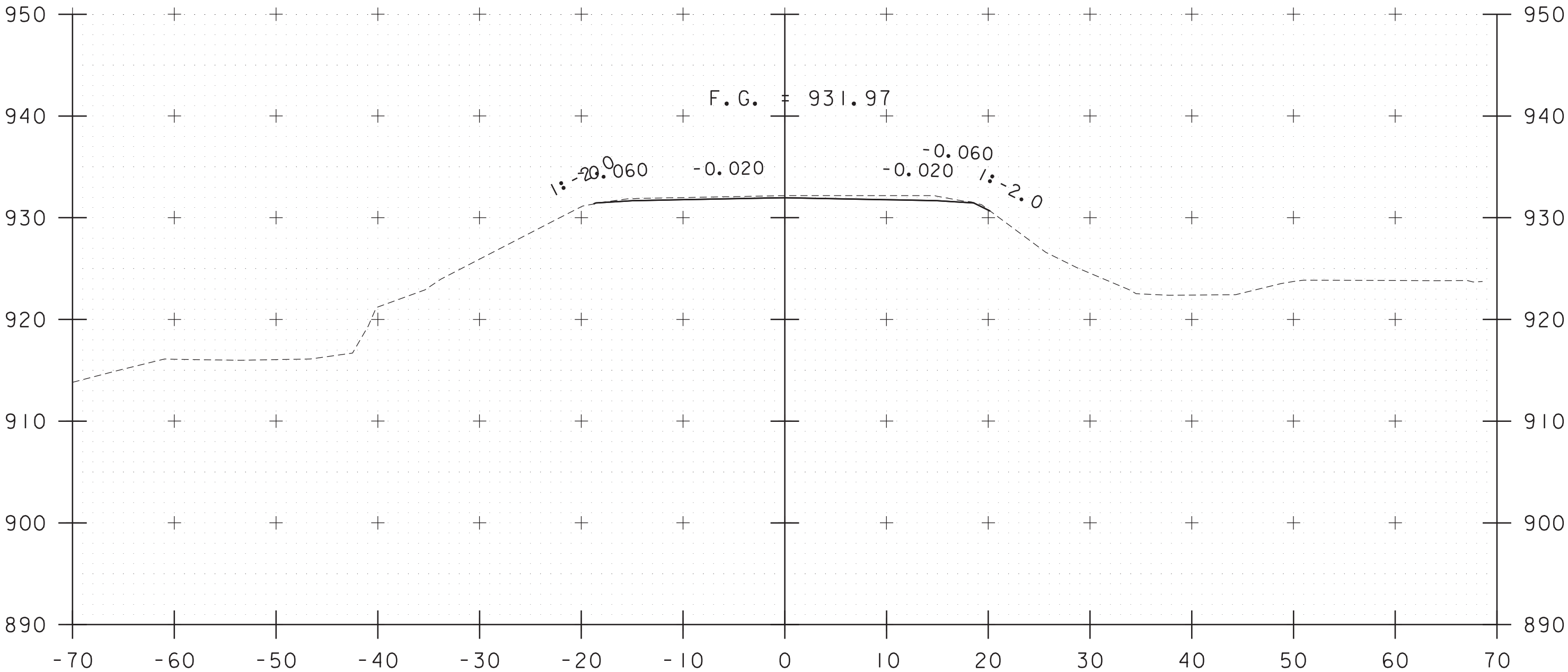
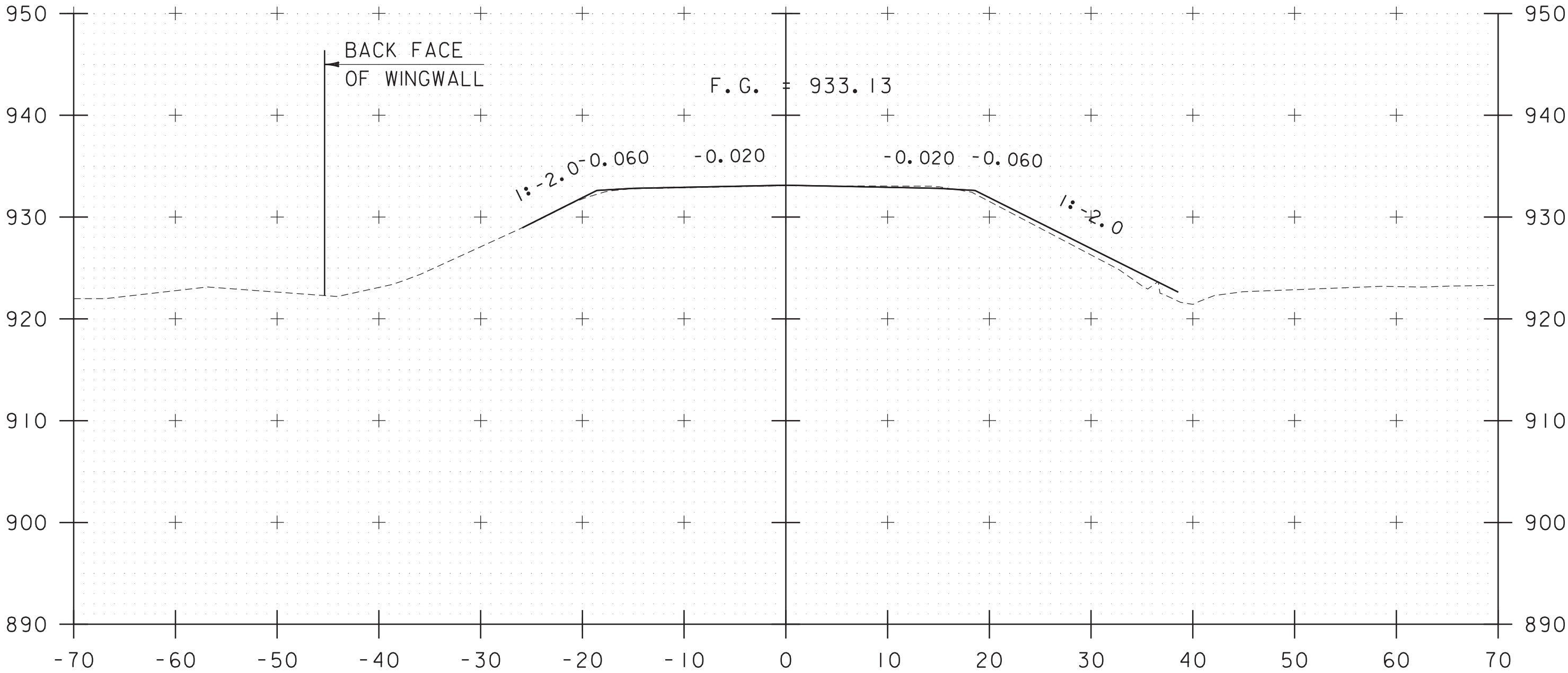
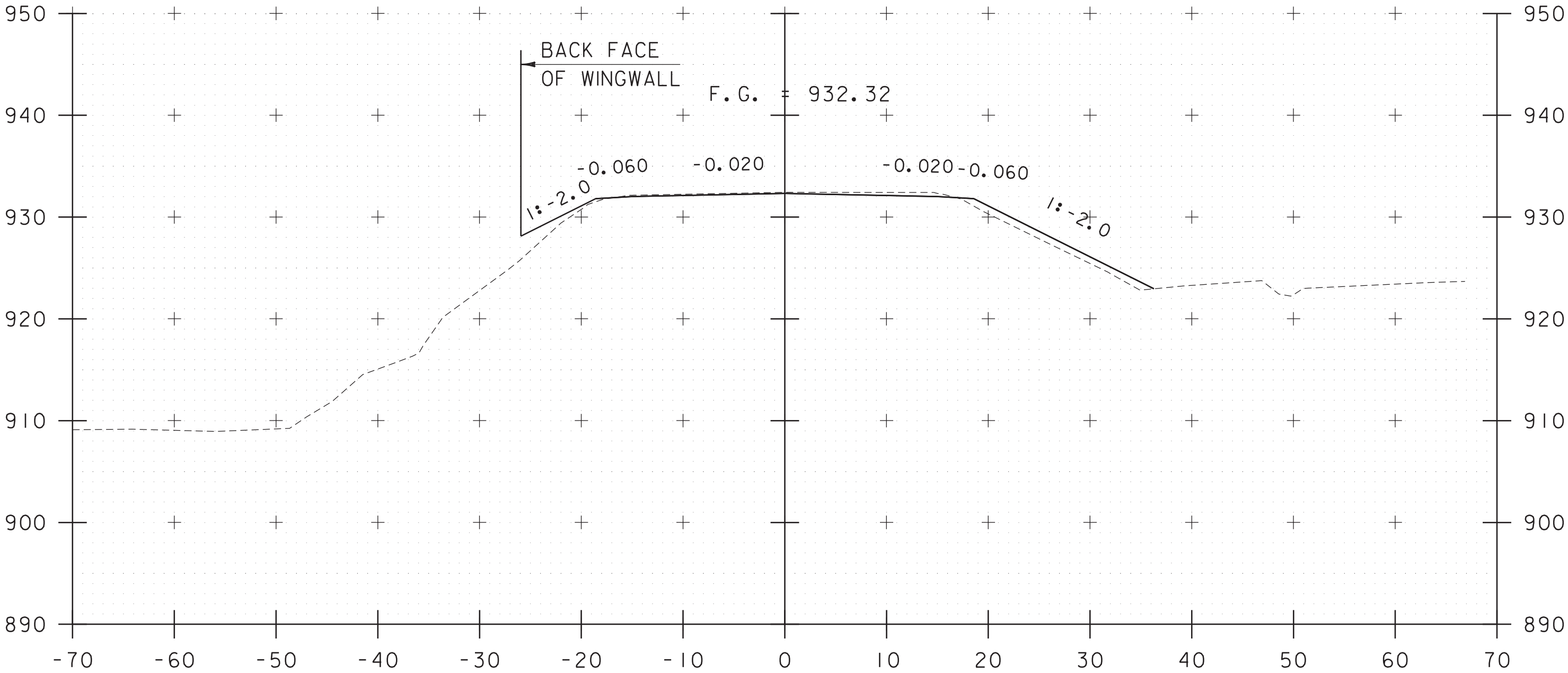
PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS 3

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 12 OF 23



BEGIN BRIDGE  
STA 327+78.59



STA. 327+00 TO STA. 327+75

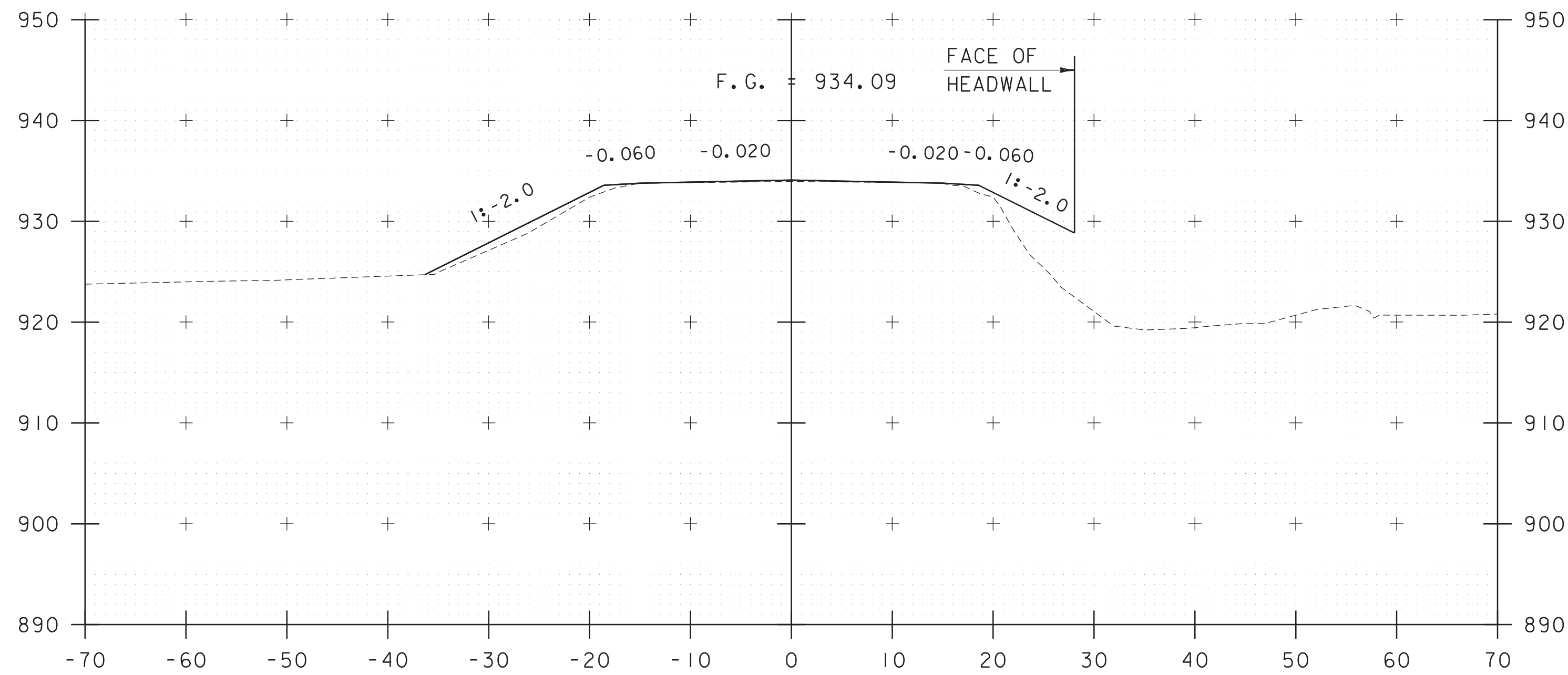
Hoyle, Tanner  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS 4

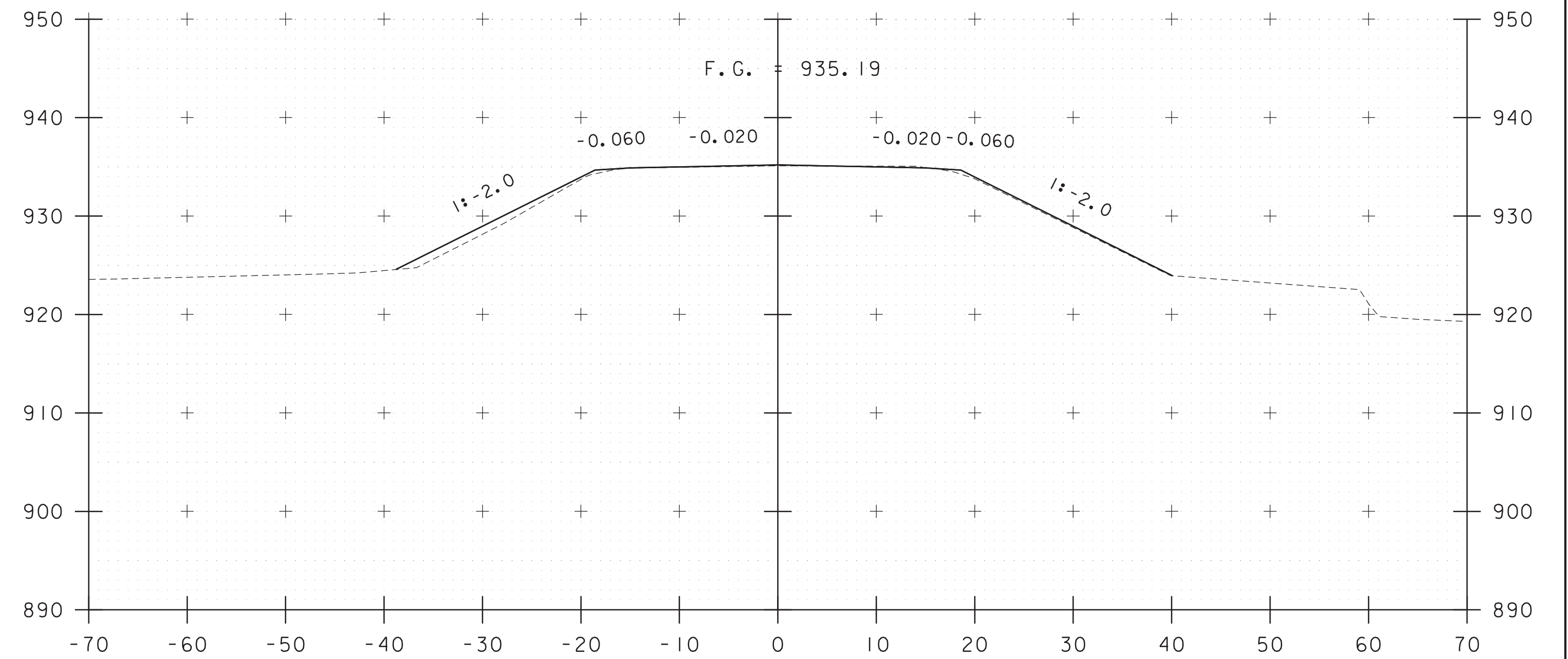
PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 13 OF 23



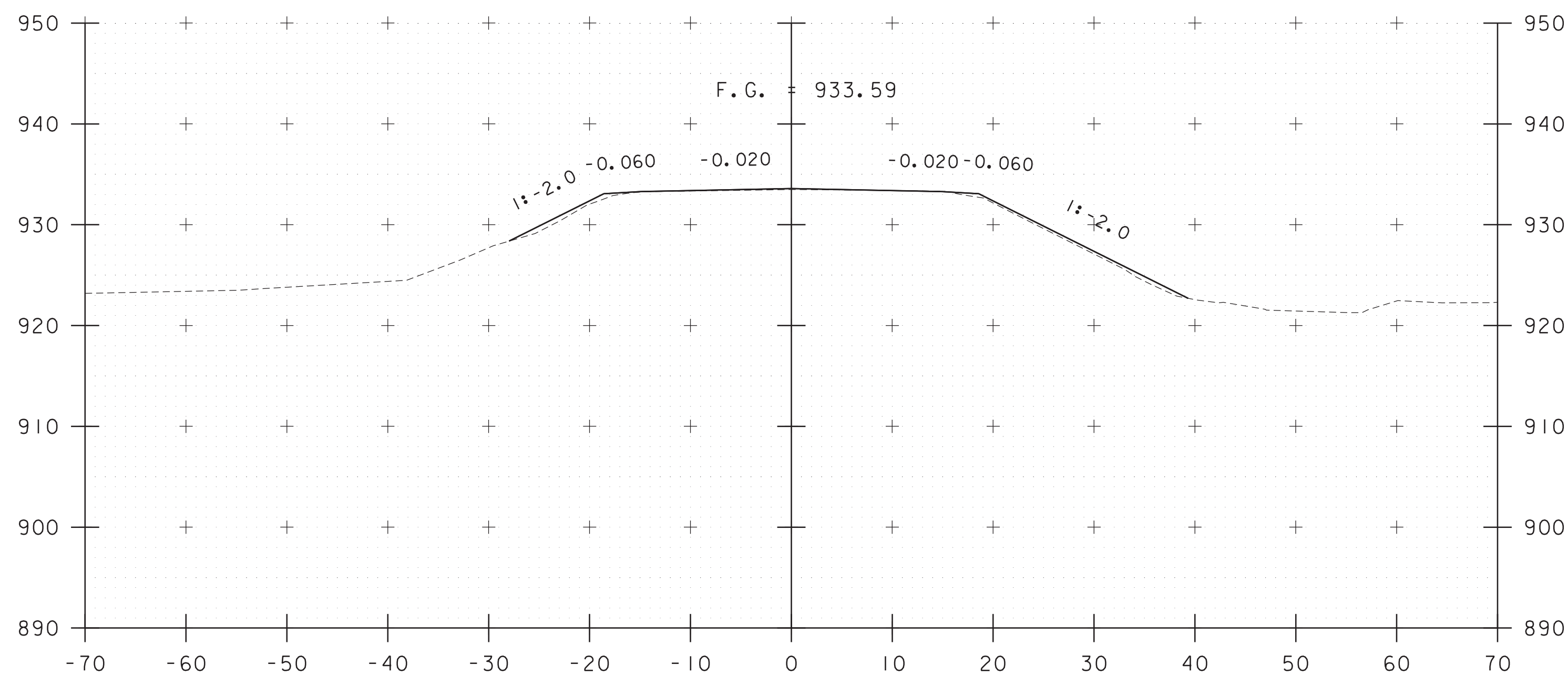


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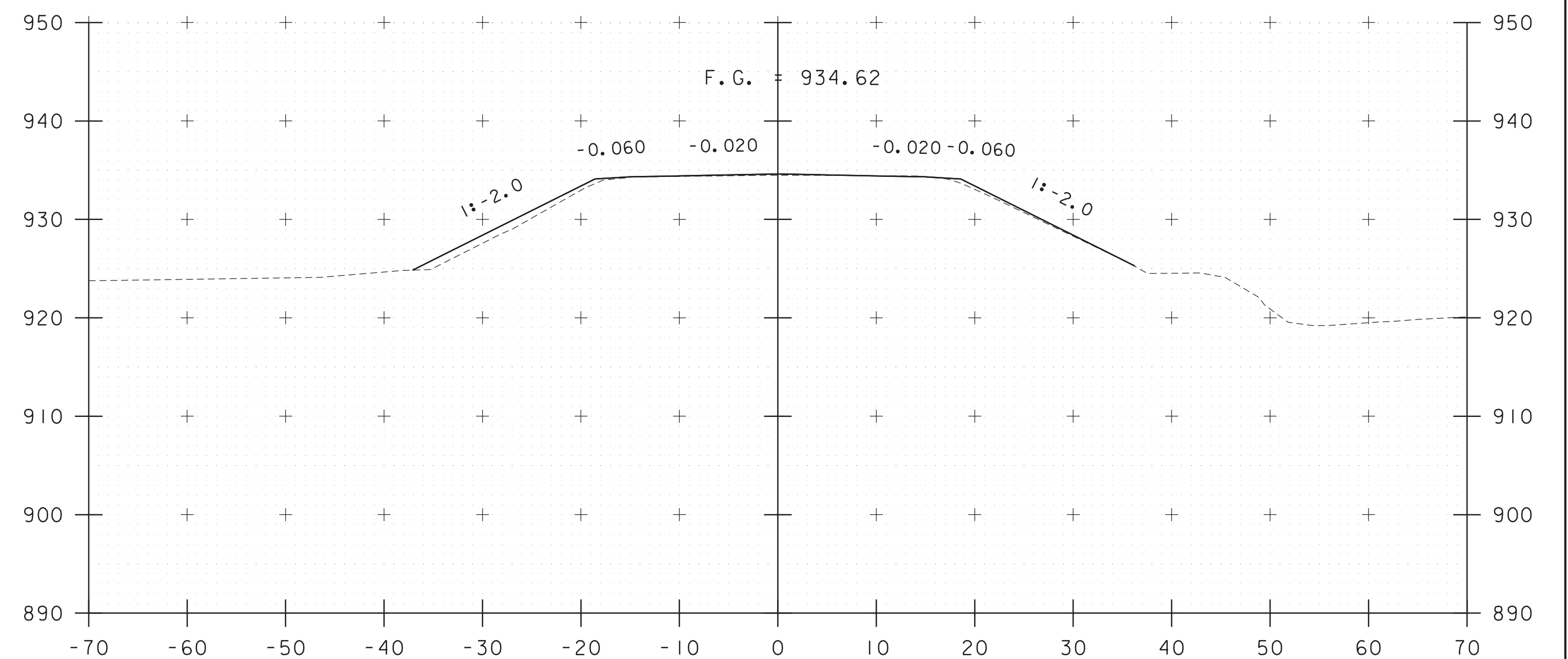
328+25



328+75



328+00



328+50

STA. 328+00 TO STA. 328+75

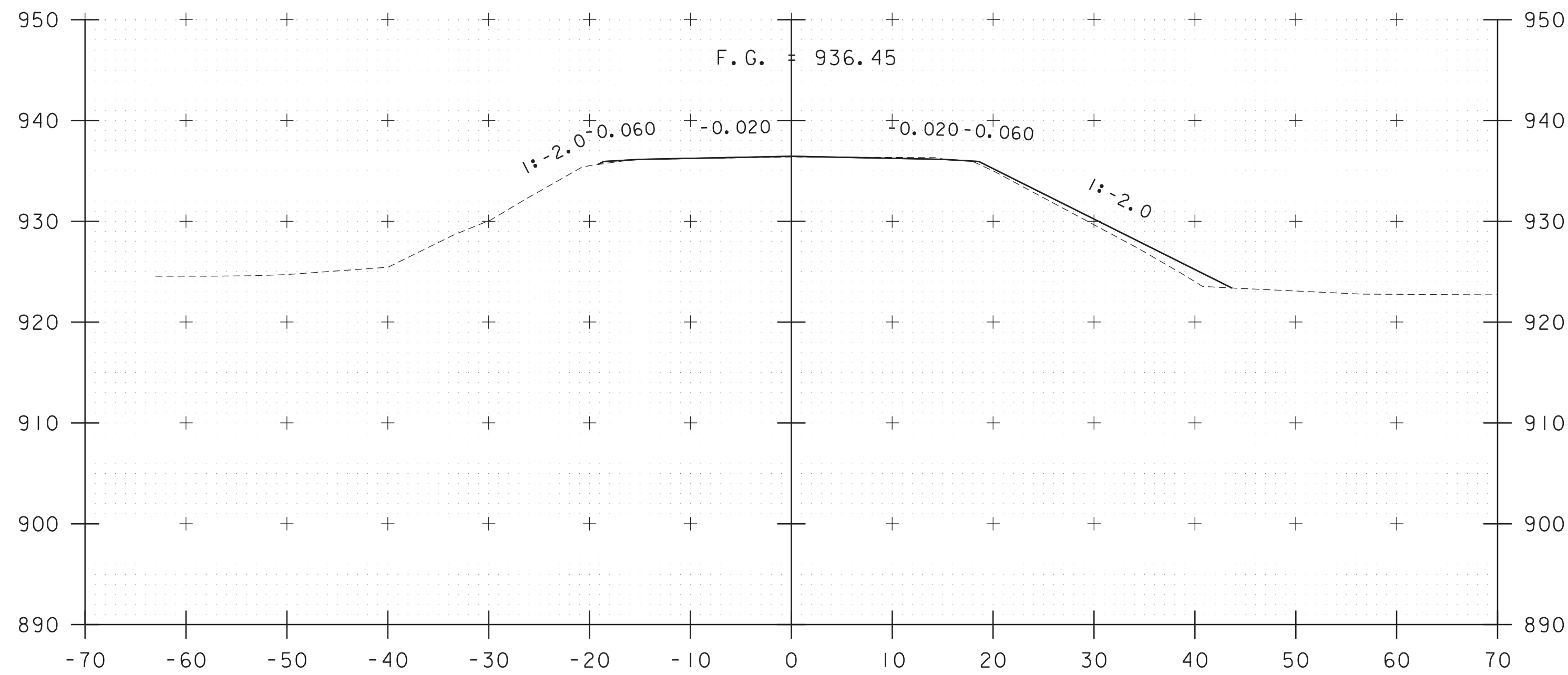
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

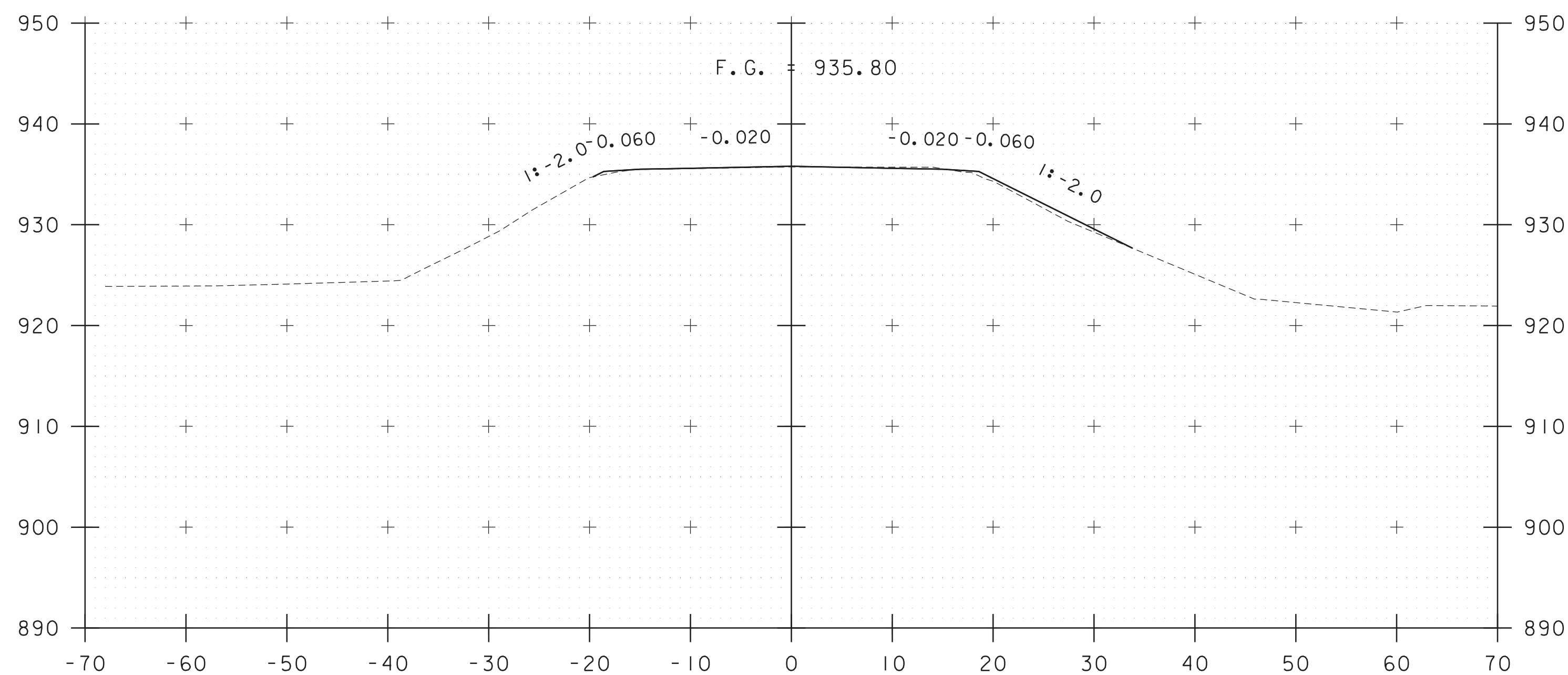
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS 5

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 14 OF 23

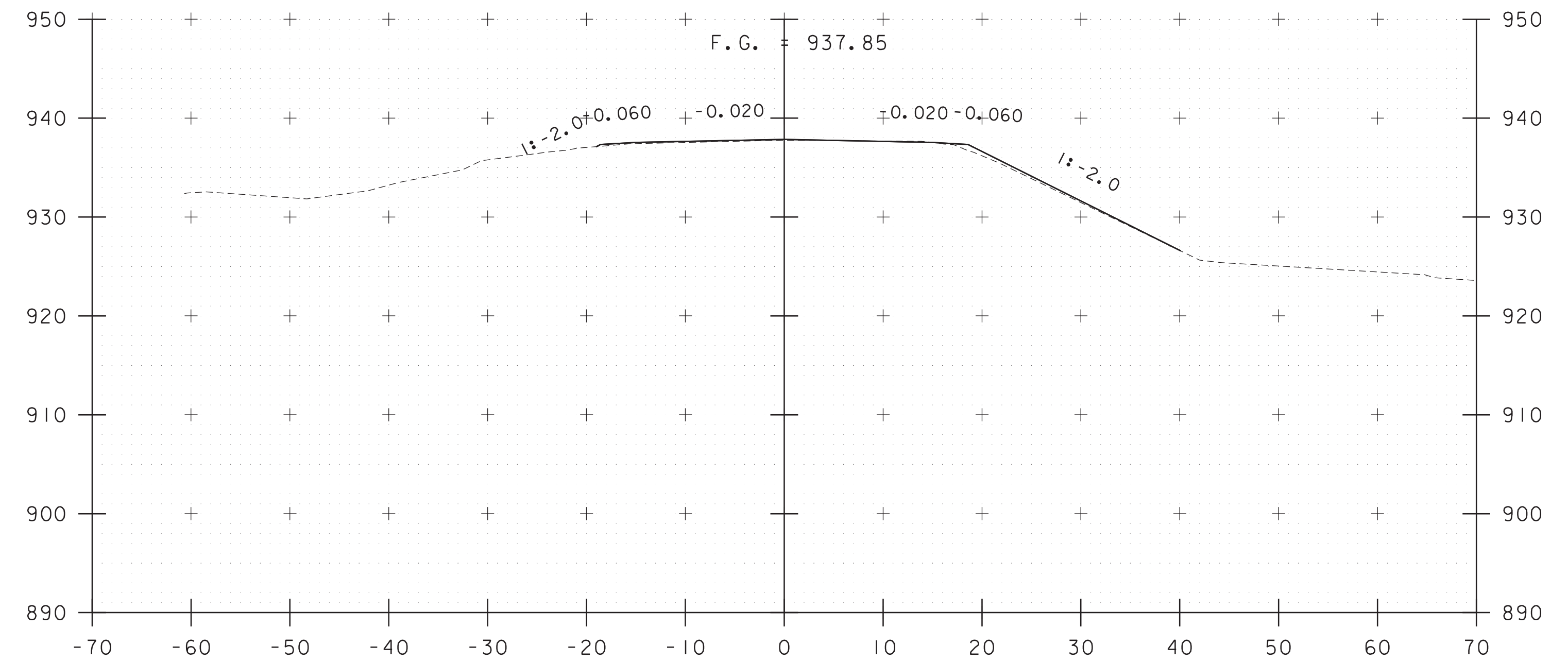




329+25

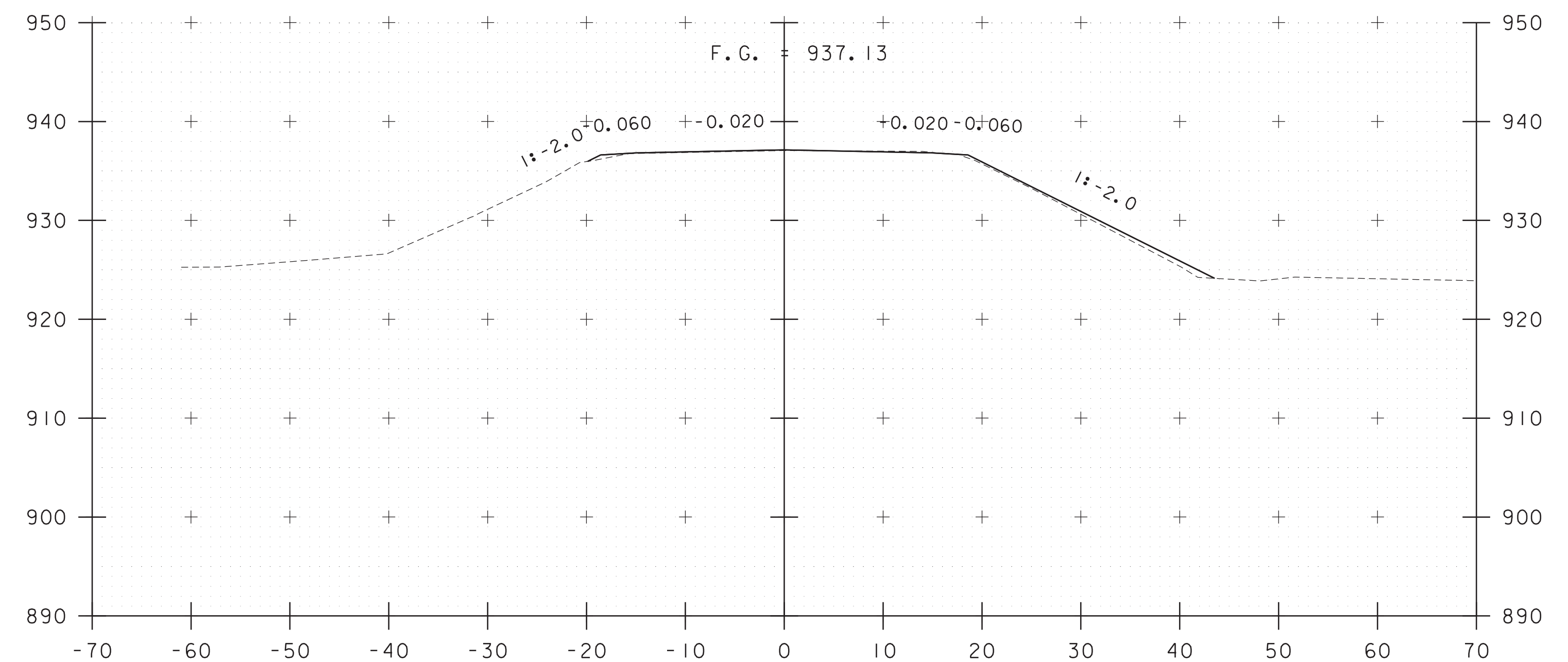


329+00



END PROJECT  
STA 329+75.00

329+75



329+50

STA. 329+00 TO STA. 329+75

Hoyle, Tanner  
& Associates, Inc.

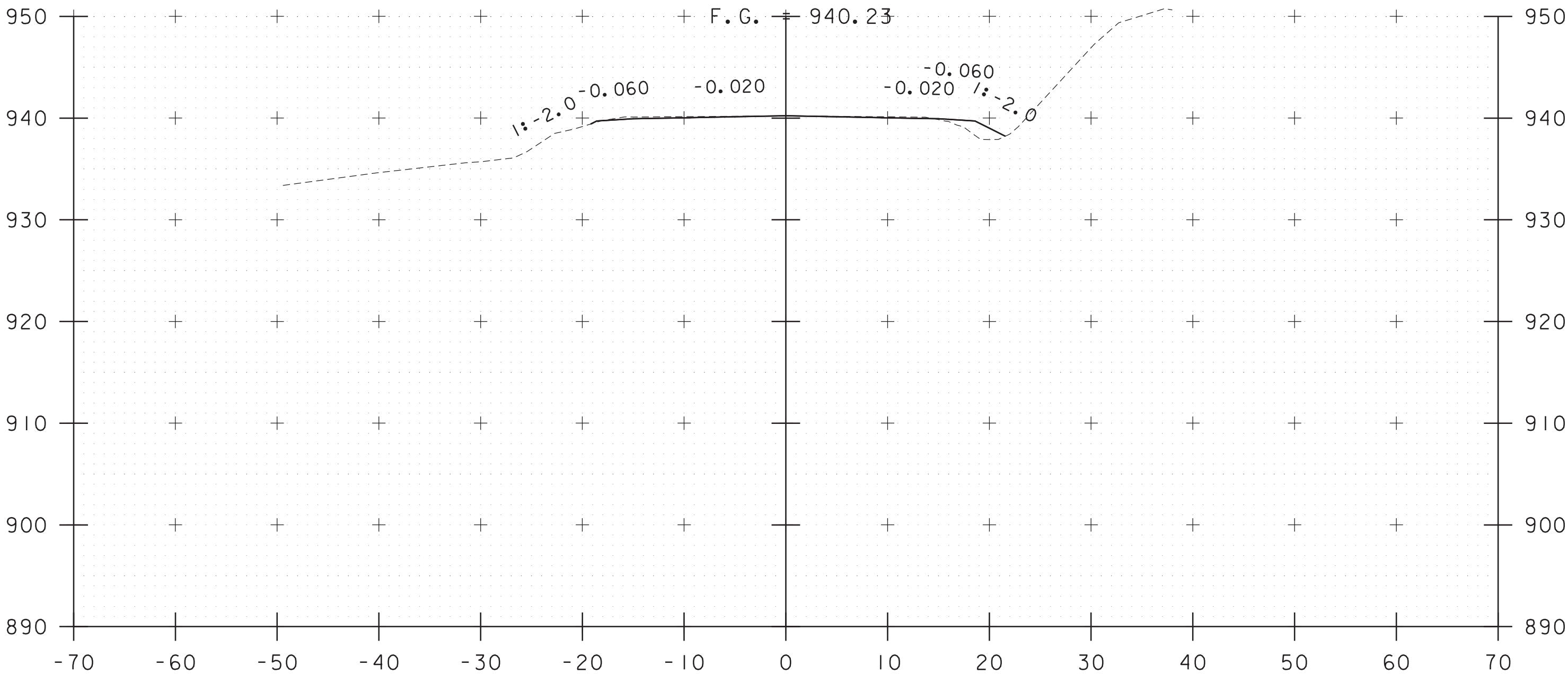
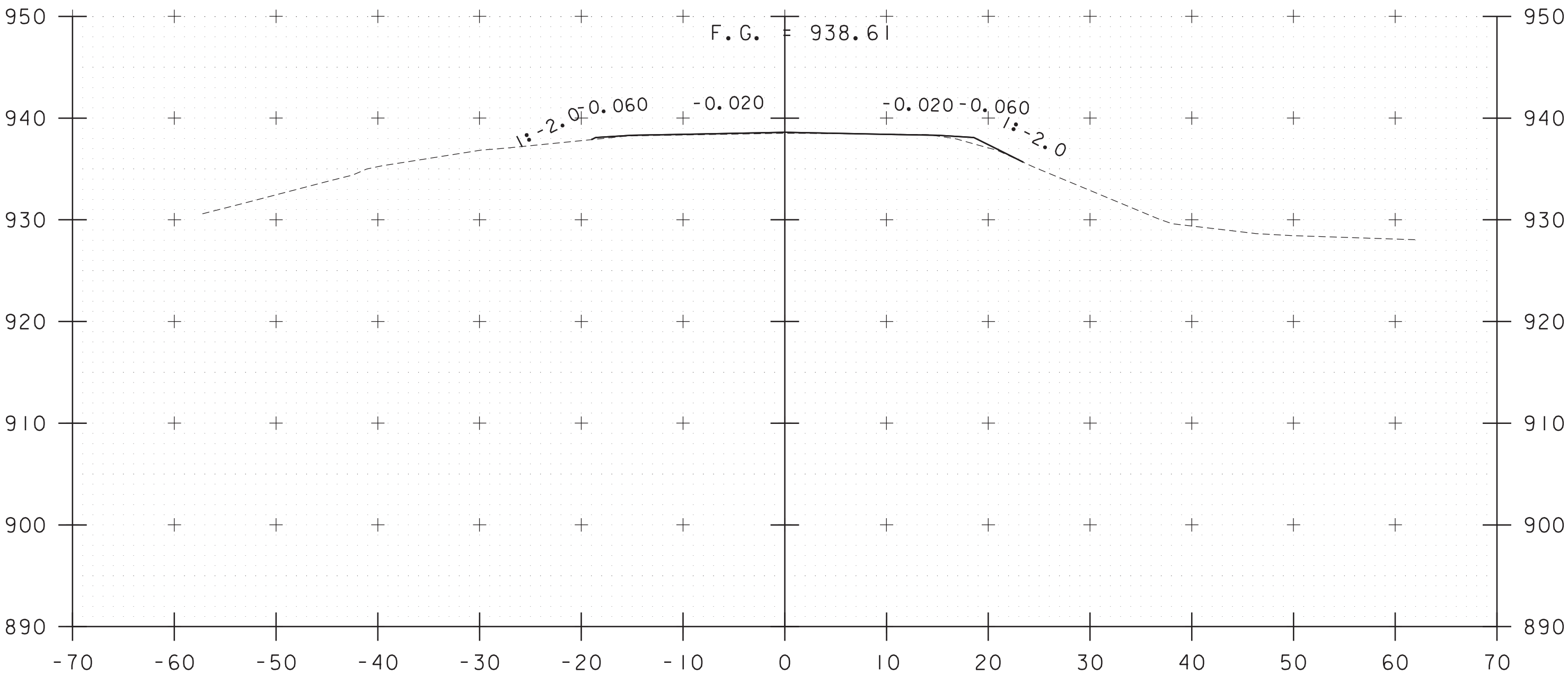
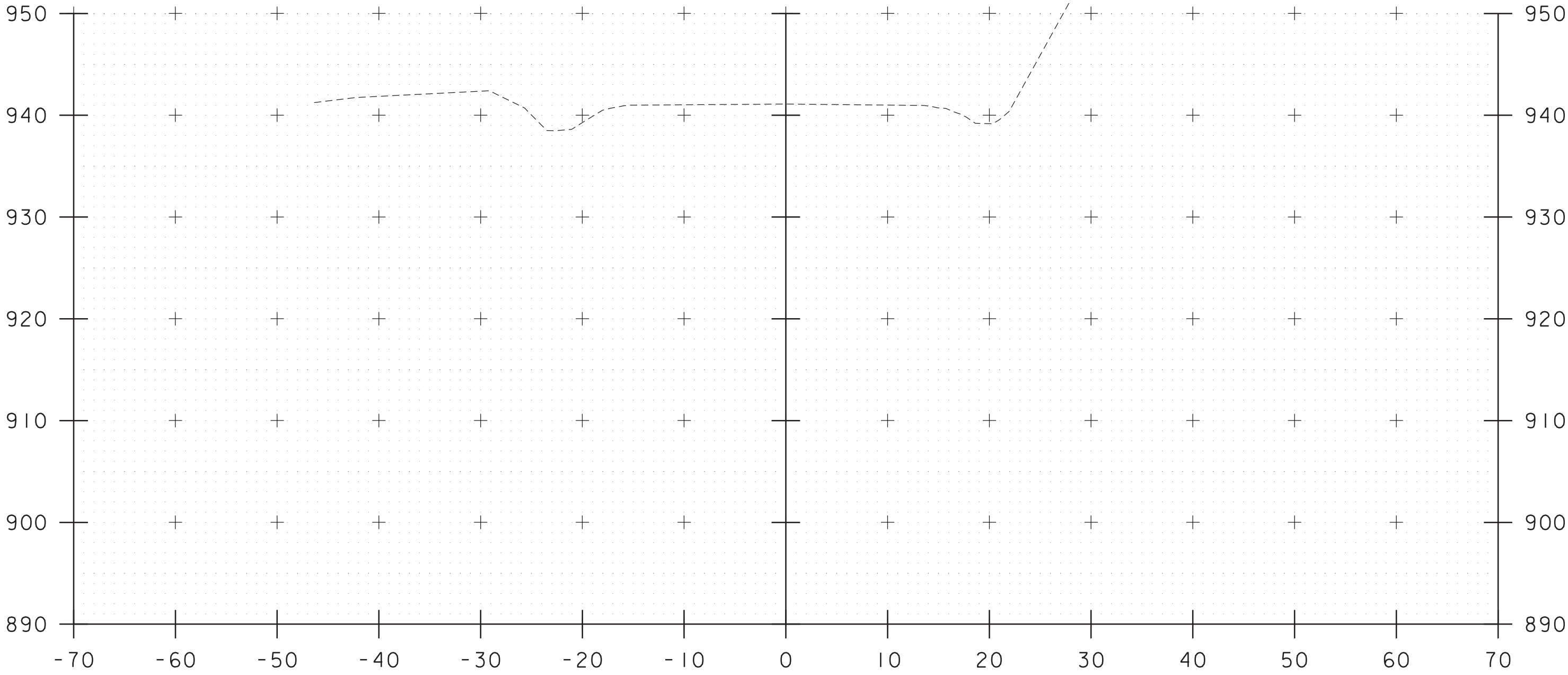
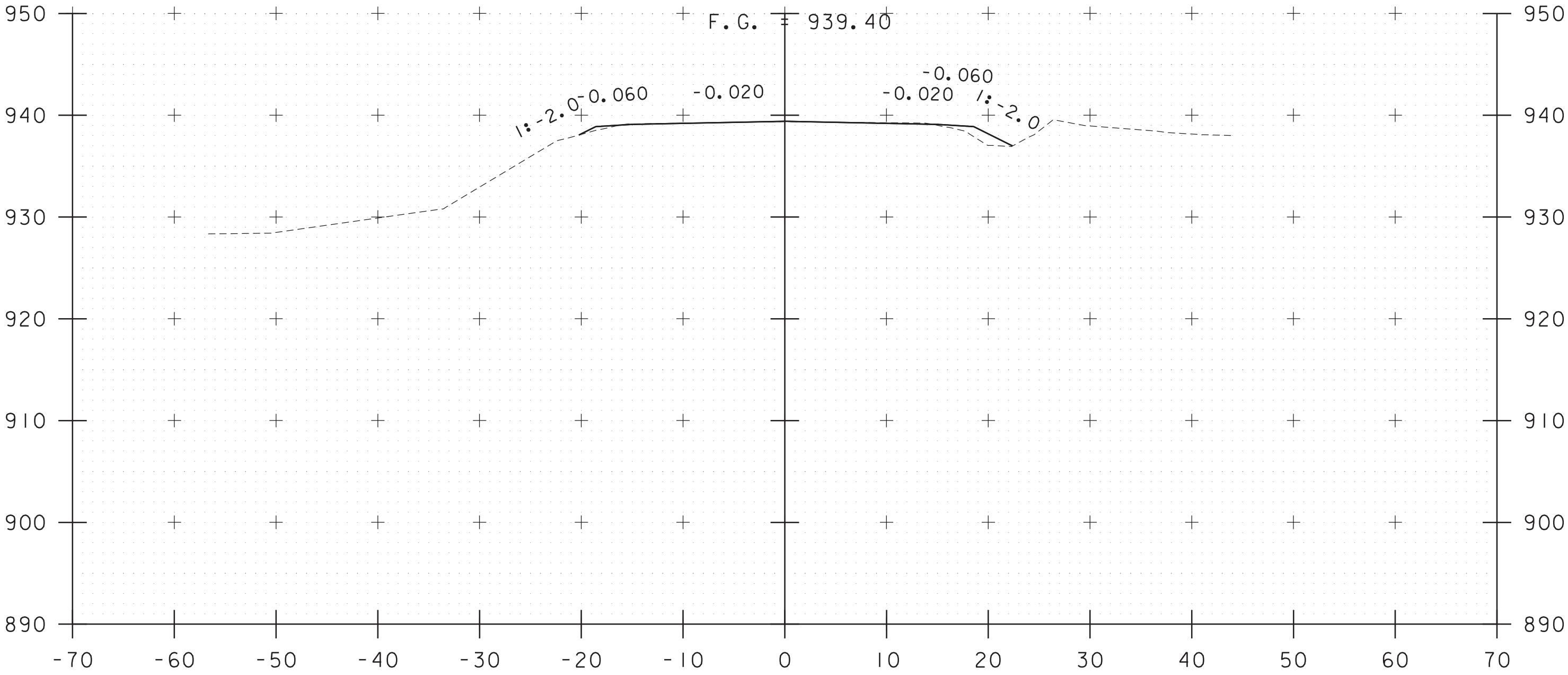
PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS 6

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 15 OF 23



END APPROACH  
STA 331+00.00  
MATCH EXISTING



STA. 330+00 TO STA. 330+75

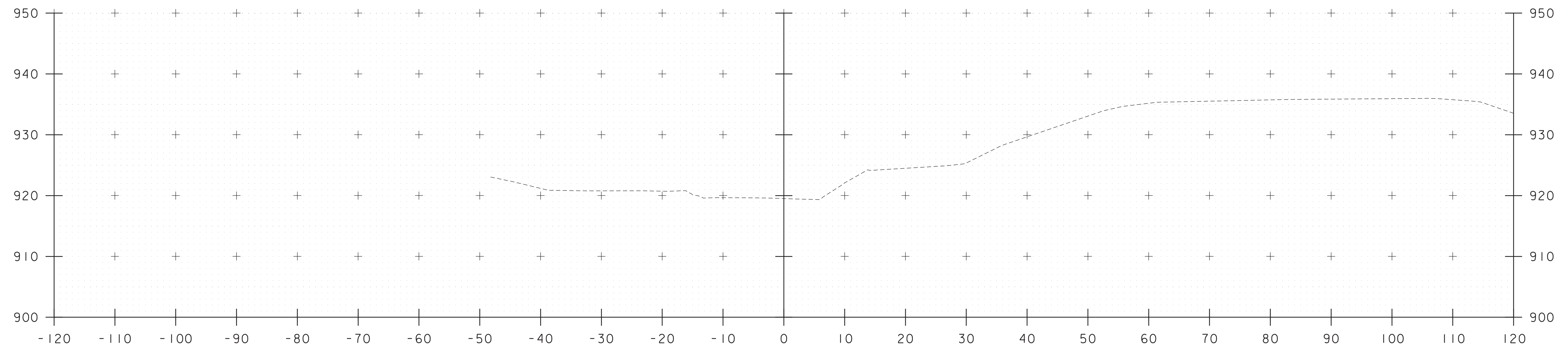
Hoyle, Tanner  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

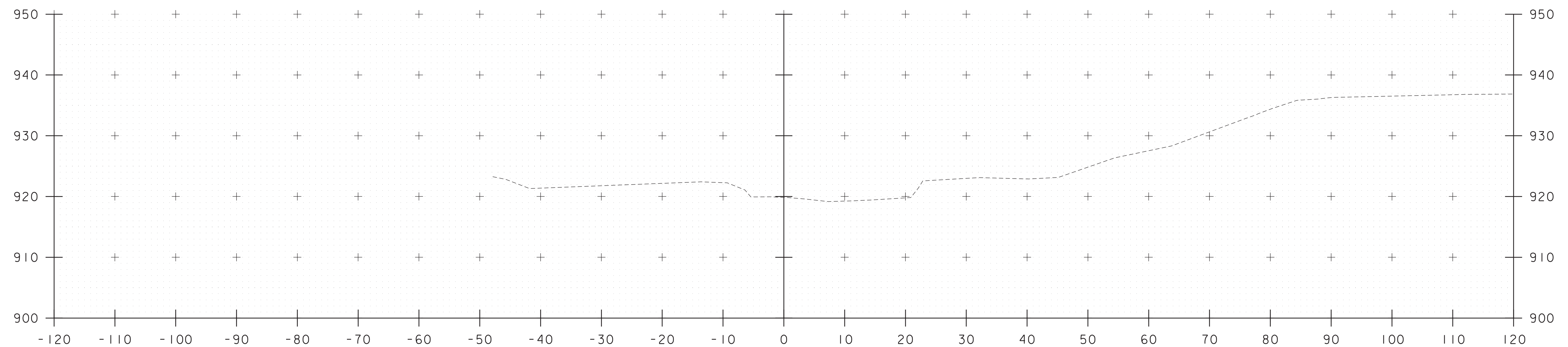
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
ROADWAY CROSS SECTIONS 7

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 16 OF 23





50+75



50+50

STA. 50+50 TO STA. 50+75

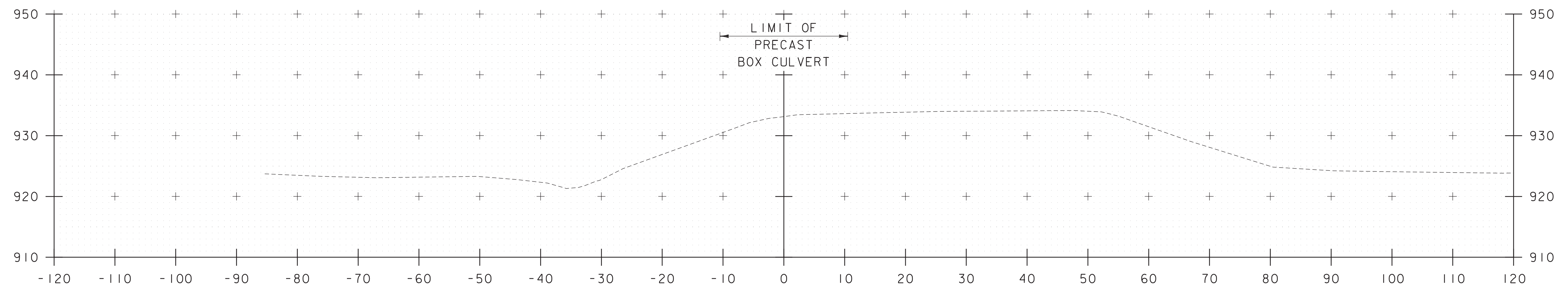
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

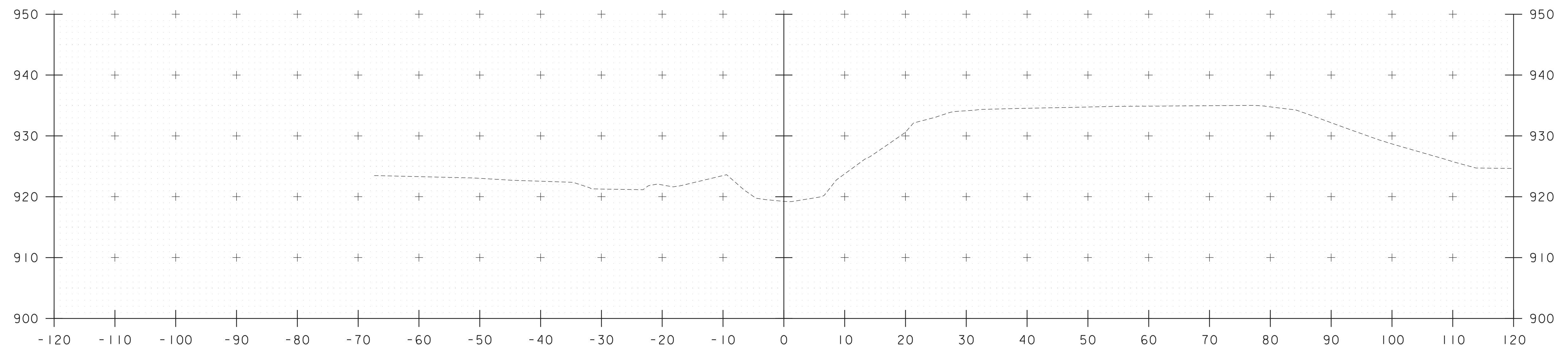
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
CHANNEL CROSS SECTIONS 1

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 17 OF 23





51+25



51+00

STA. 51+00 TO STA. 51+25

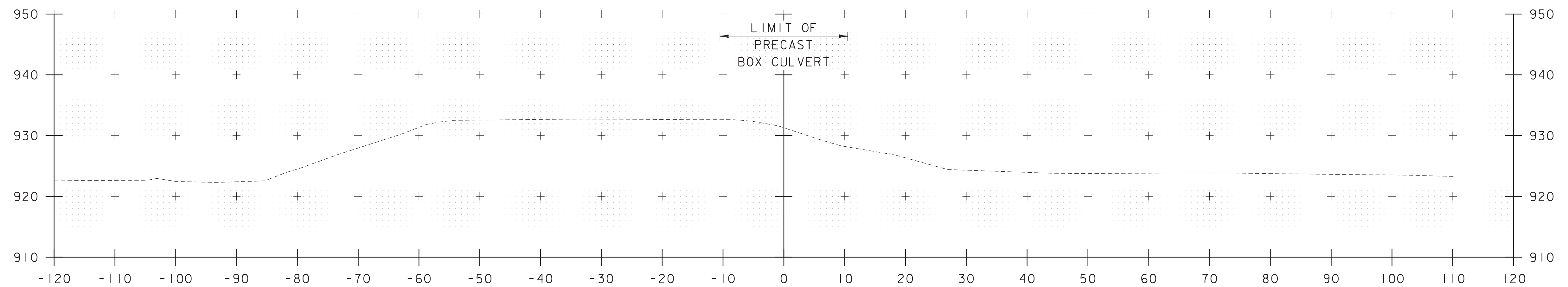
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

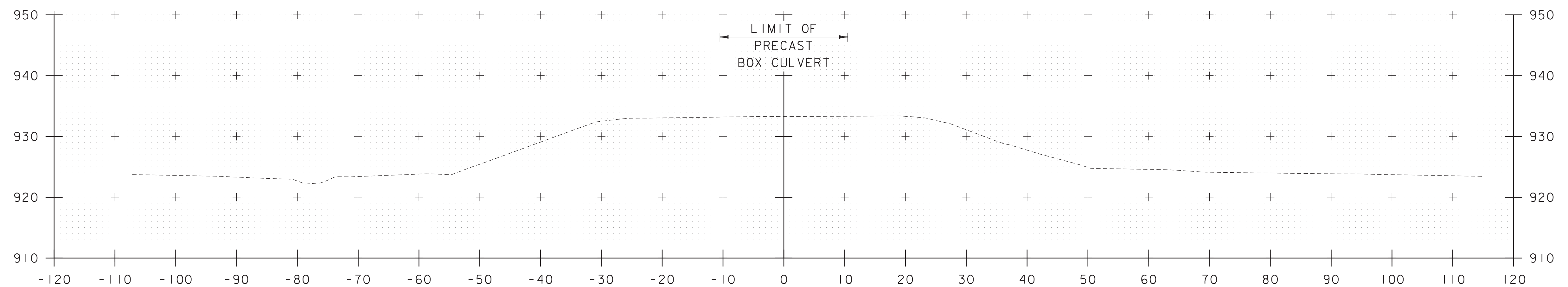
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
CHANNEL CROSS SECTIONS 2

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 18 OF 23





51+75



51+50

STA. 51+50 TO STA. 51+75

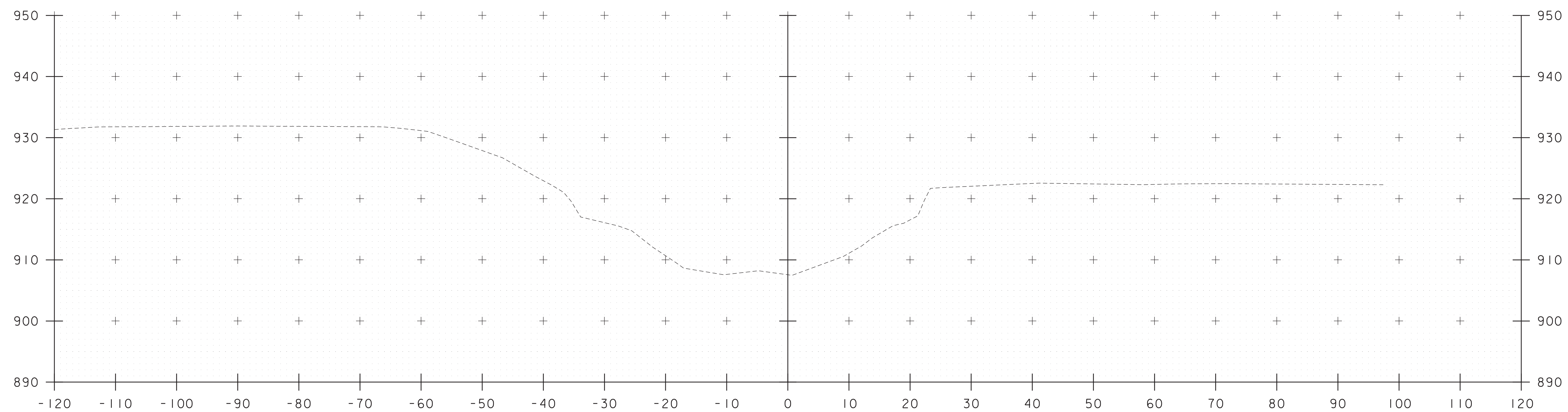
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

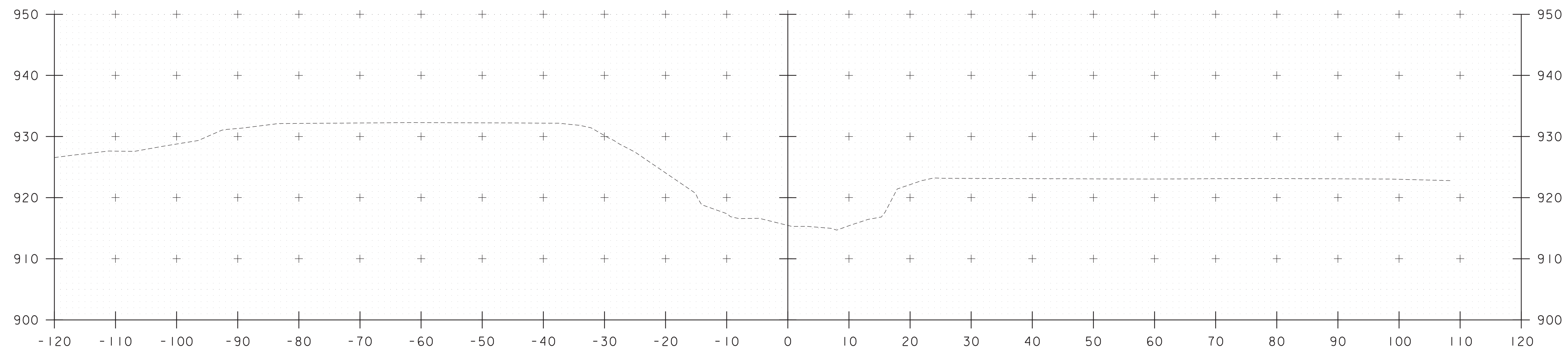
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
CHANNEL CROSS SECTIONS 3

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 19 OF 23





52+25



52+00

STA. 52+00 TO STA. 52+25

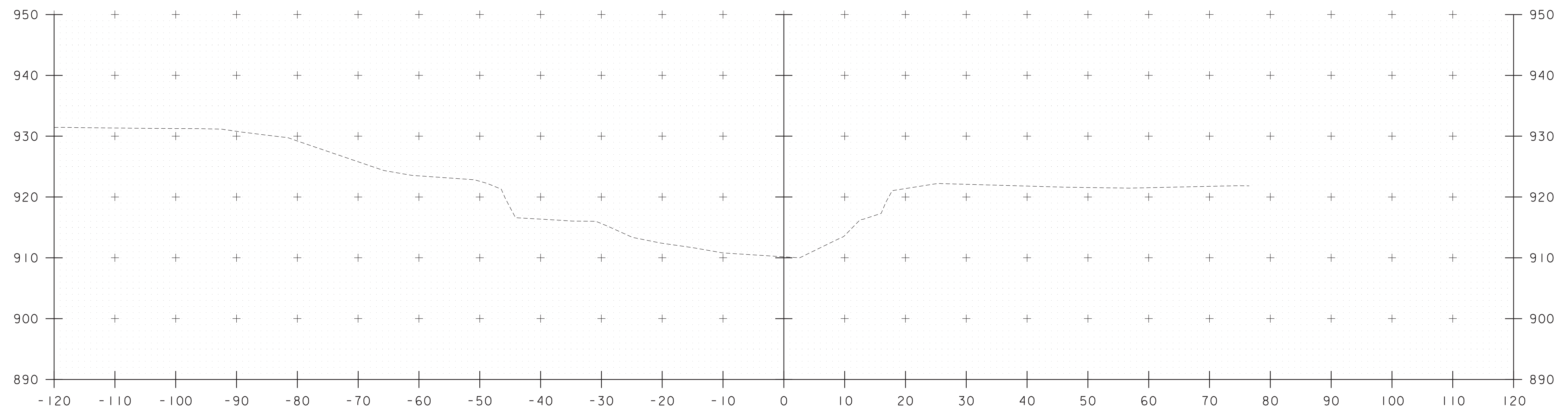
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
CHANNEL CROSS SECTIONS 4

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 20 OF 23





52+50

STA. 52+50

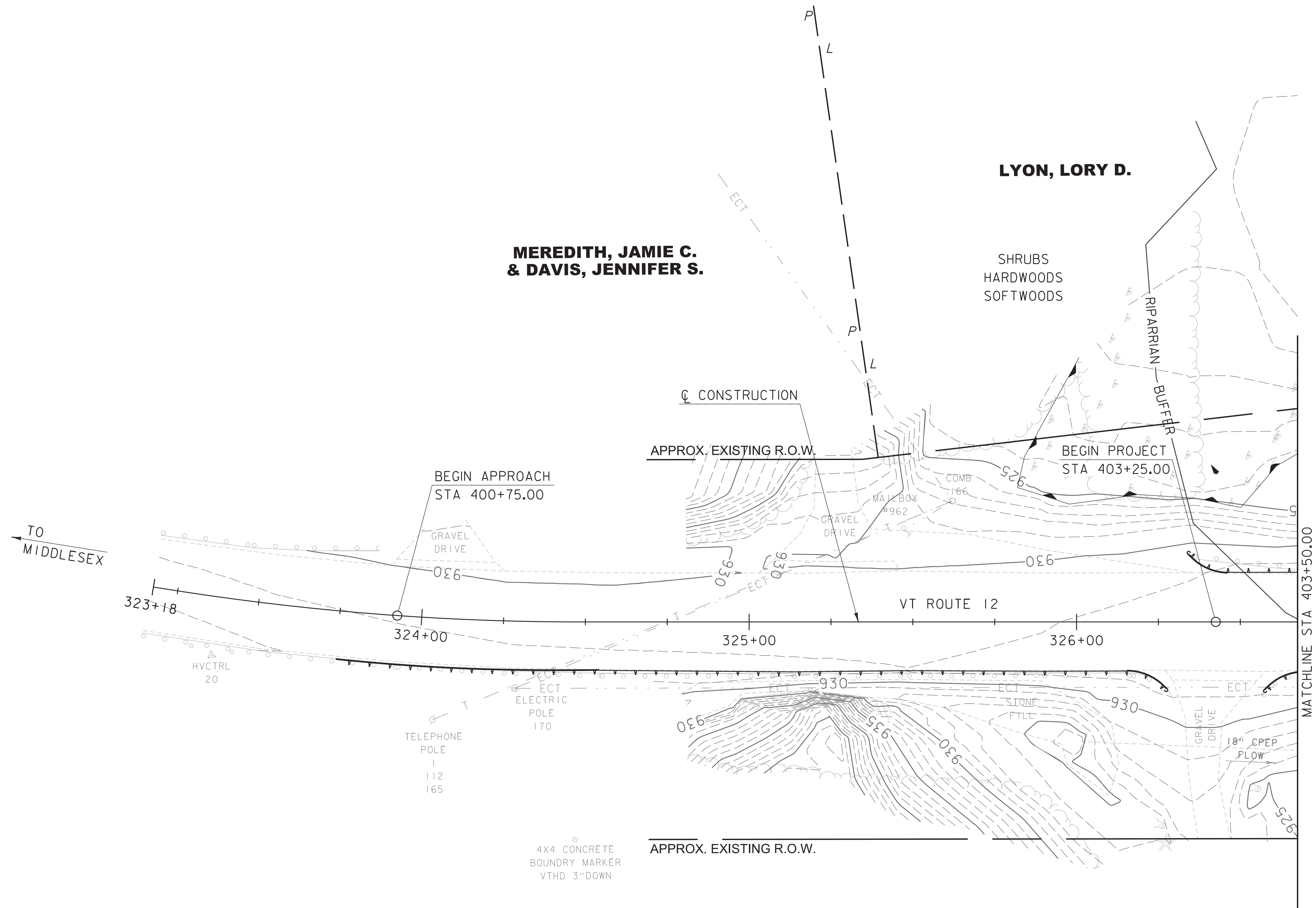
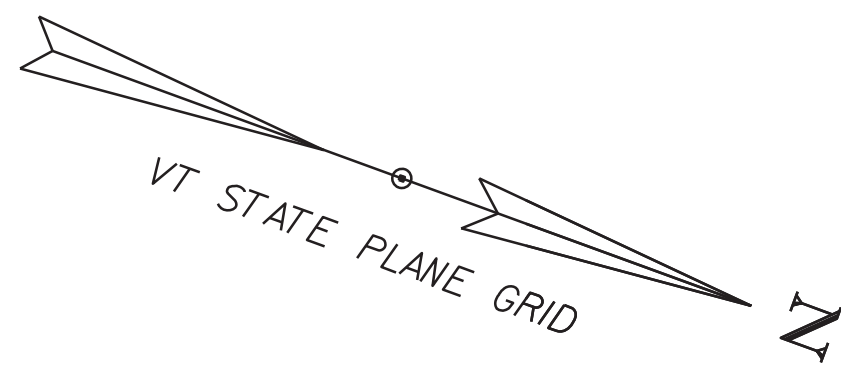
**Hoyle, Tanner**  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 024I(56)

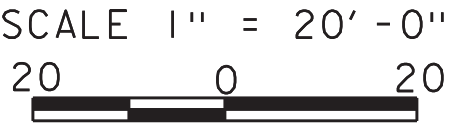
FILE NAME: z19b213xs.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
CHANNEL CROSS SECTIONS 5

PLOT DATE: 4/29/2021  
DRAWN BY: N.CENTERBAR  
CHECKED BY: S.HAAS  
SHEET 21 OF 23





ENVIRONMENTAL RESOURCE TABLE				
ENVIRONMENTAL RESOURCE	LEVEL	LINESTYLE NAME	CHECKED BY	DATE
WETLANDS	EWFS	wetland-lt or rt	VTRANS	6/30/2020
RARE, THREATENED AND ENDANGERED SPECIES	EHA	thr. & end. spec.	VTRANS	6/30/2020

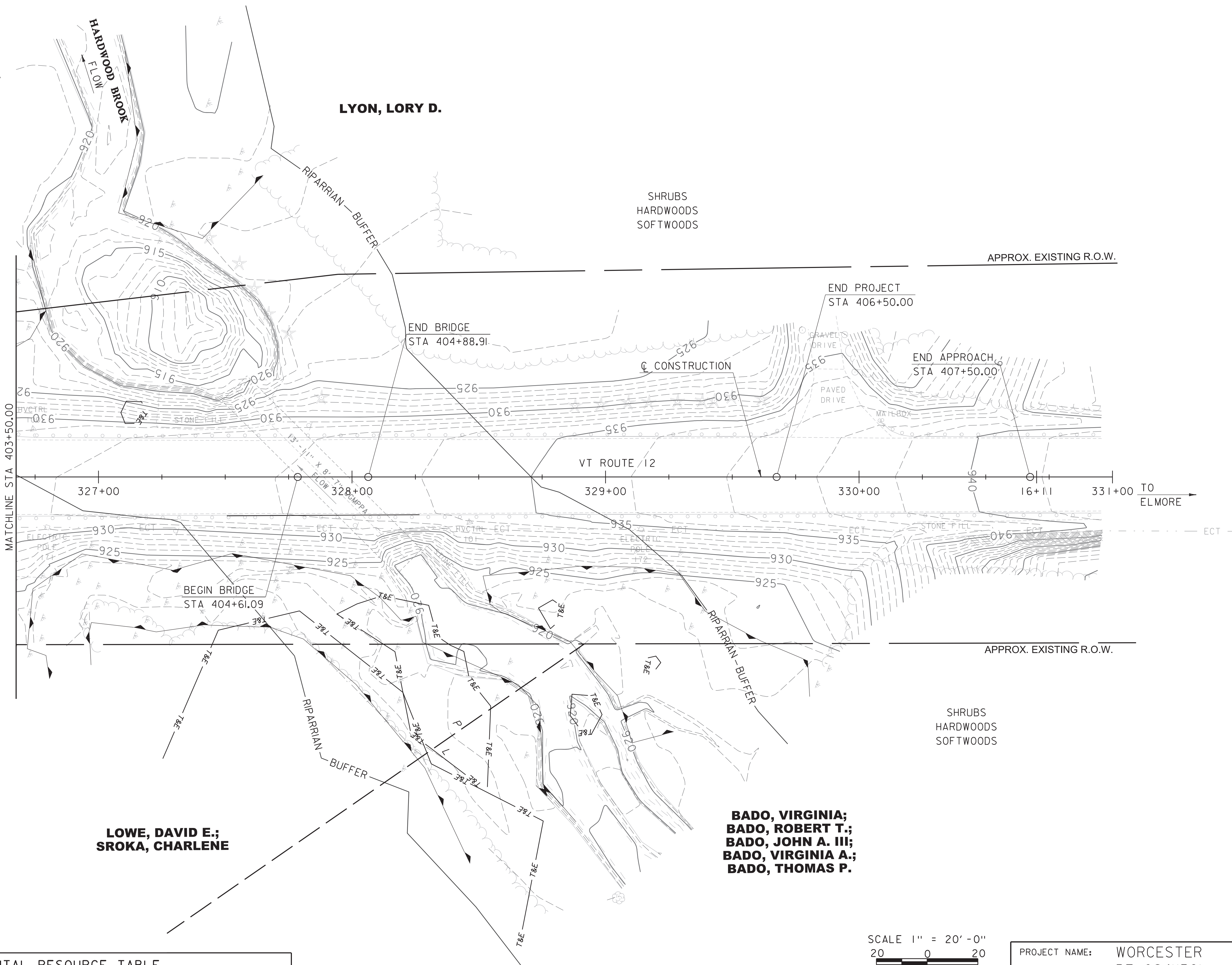
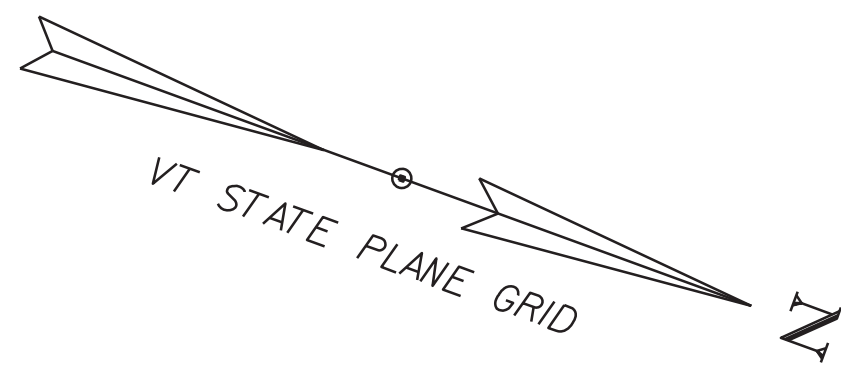


Hoyle, Tanner  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213res.dgn	PLOT DATE: 4/29/2021
PROJECT LEADER: L.STONE	DRAWN BY: P.DUSTIN
DESIGNED BY: N.CENTERBAR	CHECKED BY: S.HAAS
RESOURCE SITE PLAN I	SHEET 22 OF 23





ENVIRONMENTAL RESOURCE TABLE				
ENVIRONMENTAL RESOURCE	LEVEL	LINETYPE NAME	CHECKED BY	DATE
WETLANDS	EWFS	wetland-lt or rt	VTRANS	6/30/2020
RARE, THREATENED AND ENDANGERED SPECIES	EHA	thr. & end. spec.	VTRANS	6/30/2020

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

Hoyle, Tanner  
& Associates, Inc.

PROJECT NAME: WORCESTER  
PROJECT NUMBER: BF 0241(56)

FILE NAME: z19b213res.dgn  
PROJECT LEADER: L.STONE  
DESIGNED BY: N.CENTERBAR  
RESOURCE SITE PLAN 2

PLOT DATE: 4/29/2021  
DRAWN BY: P.DUSTIN  
CHECKED BY: S.HAAS  
SHEET 23 OF 23