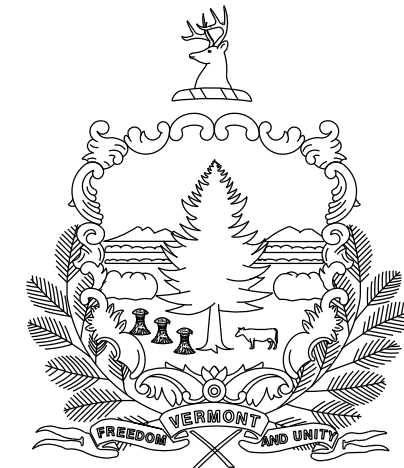


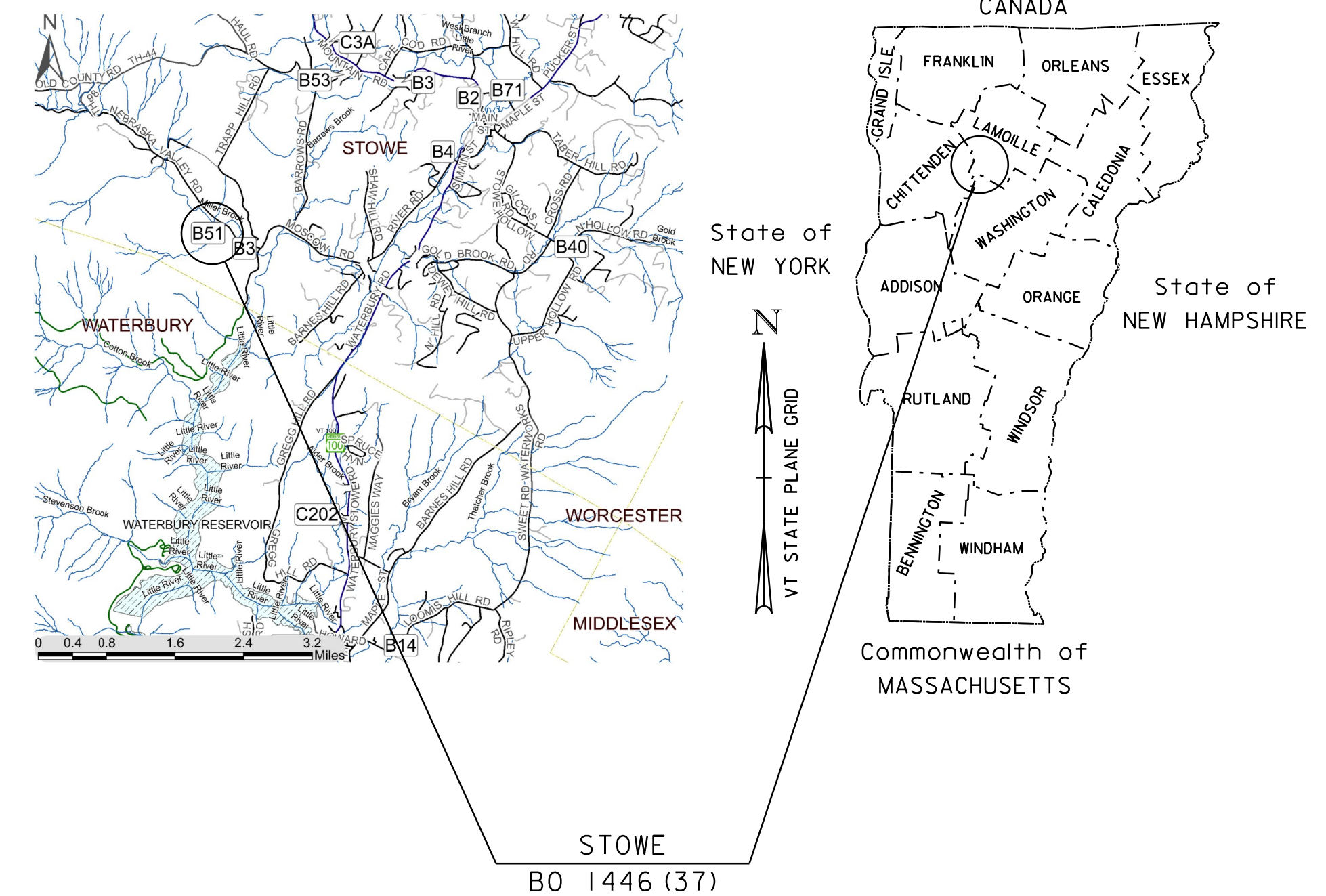
REVIEWER NOTES:

I. THE BRIDGE WILL BE CLOSED DURING CONSTRUCTION.
TRAFFIC WILL BE MAINTAINED ON AN UPSTREAM
TEMPORARY BRIDGE.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT



TOWN OF STOWE

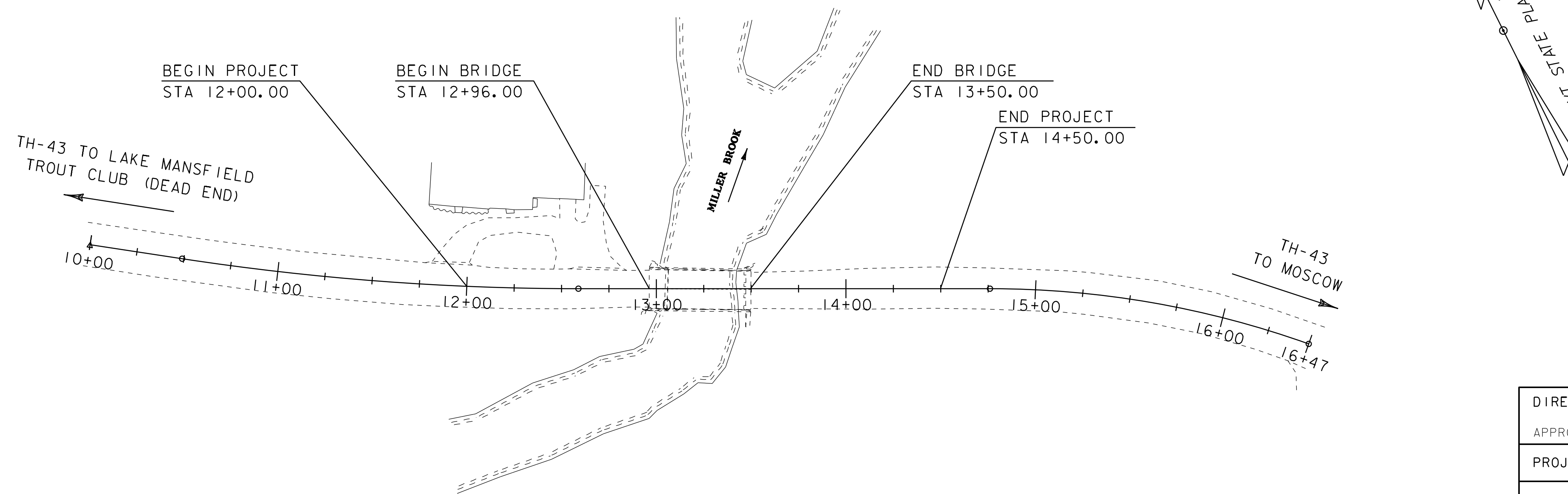
COUNTY OF LAMOILLE

ROUTE NO : TOWN HIGHWAY 43 (CLASS 3 TOWN HIGHWAY) BRIDGE NO : 5 I

PROJECT LOCATION : ON TH 43 (NEBRASKA VALLEY ROAD) APPROXIMATELY .5 MILES NORTHWEST FROM ITS INTERSECTION WITH TH 1(MOSCOW ROAD) AND EXTENDING EASTERLY .047 MILES.

PROJECT DESCRIPTION : REPLACEMENT OF THE EXISTING BRIDGE SUPERSTRUCTURE AND SUBSTRUCTURE, INCLUDING ROADWAY AND CHANNEL WORK RELATIVE TO PROJECT CONSTRUCTION.

LENGTH OF STRUCTURE : 54 FEET.
LENGTH OF ROADWAY : 196 FEET.
LENGTH OF PROJECT : 250 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
SURVEYED DATE :	9/21/2009
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (96)



DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : C. CARLSON, P. E.	
PROJECT NAME : STOWE	
PROJECT NUMBER : BO 1446 (37)	
SHEET 1 OF 13 SHEETS	

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
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
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 RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

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+TELEP.
— 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+TELEP.
—	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
— X — X — X — X —	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
Ⓜ	HISTORIC STRUCTURE

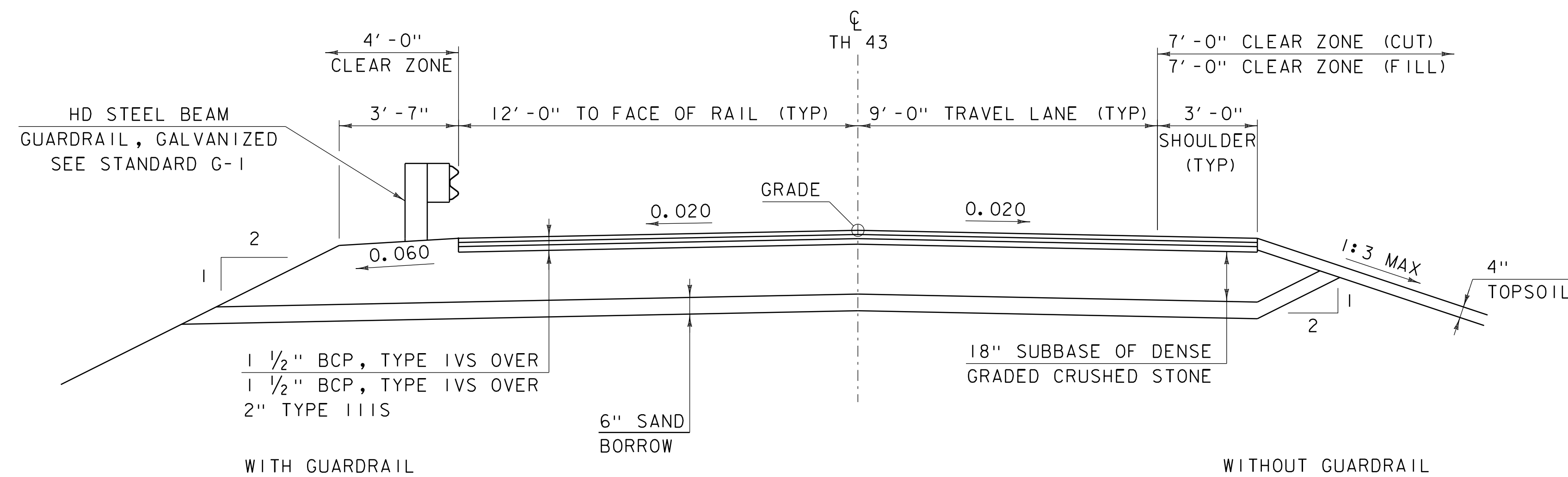
**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

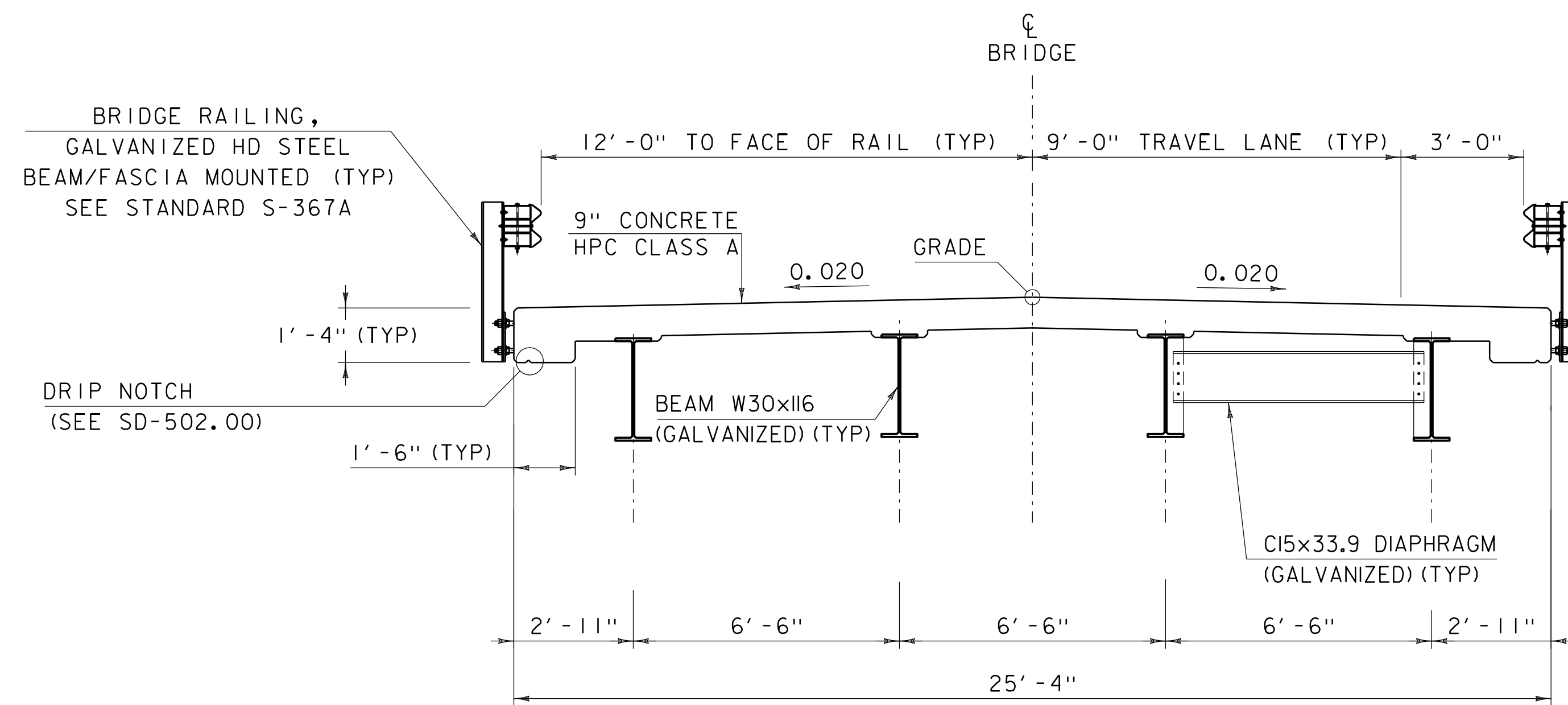
-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
-----	FOUNDATION
— X — X — X — X —	FENCE (EXISTING)
□ — □ — □ — □ —	FENCE WOOD POST
○ — ○ — ○ — ○ —	FENCE STEEL POST
-----	GARDEN
○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
-----	STONE WALL
-----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

PROJECT NAME: STOWE  
PROJECT NUMBER: BO 1446(37)

FILE NAME: sl2j660frm.dgn PLOT DATE: 22-AUG-2018  
PROJECT LEADER: C. CARLSON DRAWN BY: K. YELINEK  
DESIGNED BY: K. YELINEK CHECKED BY: -----  
CONVENTIONAL SYMBOLGY LEGEND SHEET 3 OF 13



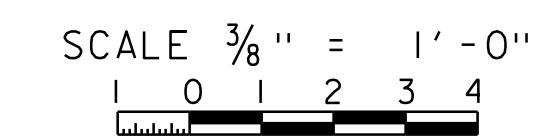
PROPOSED TH 43 TYPICAL SECTION  
SCALE 3/8" = 1'-0"



PROPOSED BRIDGE TYPICAL SECTION  
SCALE 3/8" = 1'-0"

MATERIAL TOLERANCES  
(IF USED ON PROJECT)

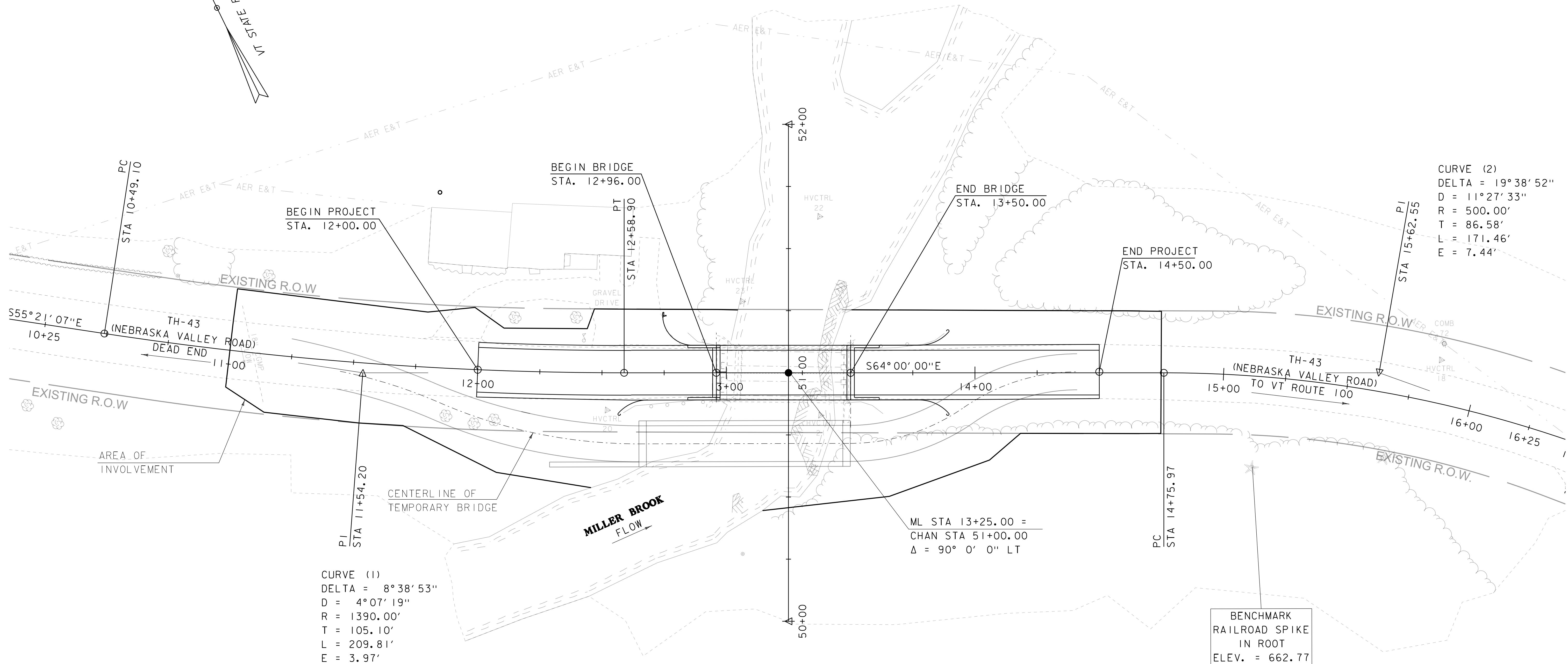
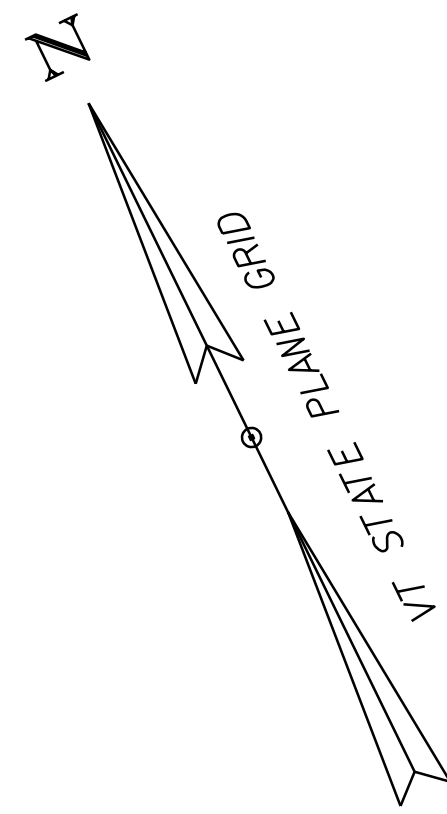
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"



PROJECT NAME: STOWE  
PROJECT NUMBER: BO 1446(37)

FILE NAME: I2J660\sl2j660+yp.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: K. YELINEK  
TYPICAL SECTIONS

PLOT DATE: 22-AUG-2018  
DRAWN BY: K. YELINEK  
CHECKED BY:  
SHEET 4 OF 13



CURVE (2)  
 DELTA = 19° 38' 52"  
 D = 11° 27' 33"  
 R = 500.00'  
 T = 86.58'  
 L = 171.46'  
 E = 7.44'

CURVE (1)  
 DELTA = 8° 38' 53"  
 D = 4° 07' 19"  
 R = 1390.00'  
 T = 105.10'  
 L = 209.81'  
 E = 3.97'

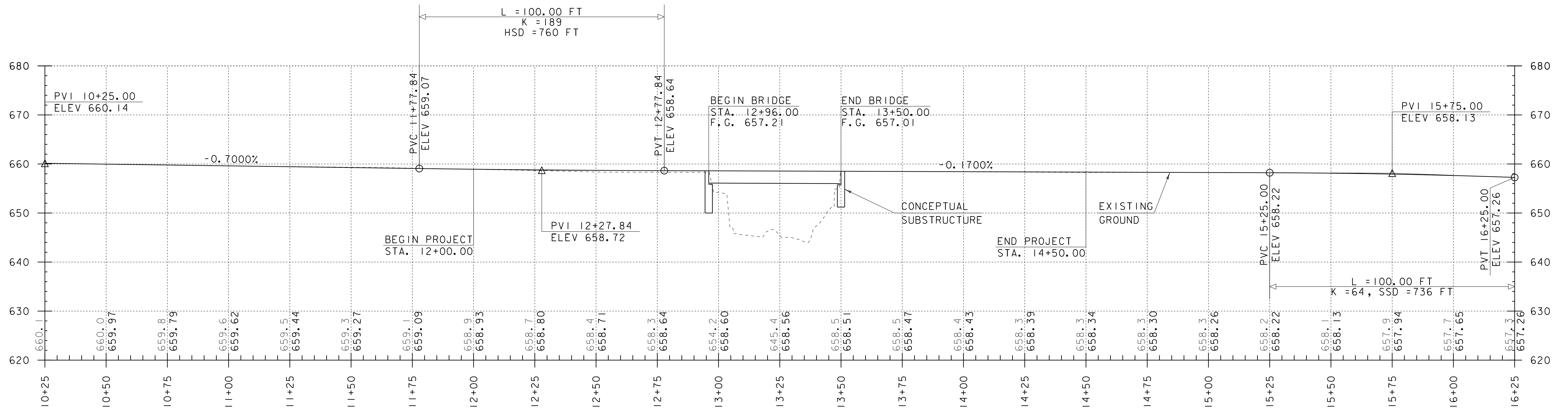
ML STA 13+25.00 =  
 CHAN STA 51+00.00  
 Δ = 90° 0' 0" LT

BENCHMARK  
 RAILROAD SPIKE  
 IN ROOT  
 ELEV. = 662.77

EXISTING BRIDGE INFORMATION  
 BUILT 1948  
 54' SINGLE SPAN ROLLED BEAM  
 CONCRETE CAST-IN-PLACE DECK

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

PROJECT NAME: STOWE	PLOT DATE: 22-AUG-2018
PROJECT NUMBER: BO 1446(37)	DRAWN BY: K. YELINEK
FILE NAME: sl2j660layout.dgn	CHECKED BY:
PROJECT LEADER: C. CARLSON	SHEET 5 OF 13
DESIGNED BY: K. YELINEK	
LAYOUT	

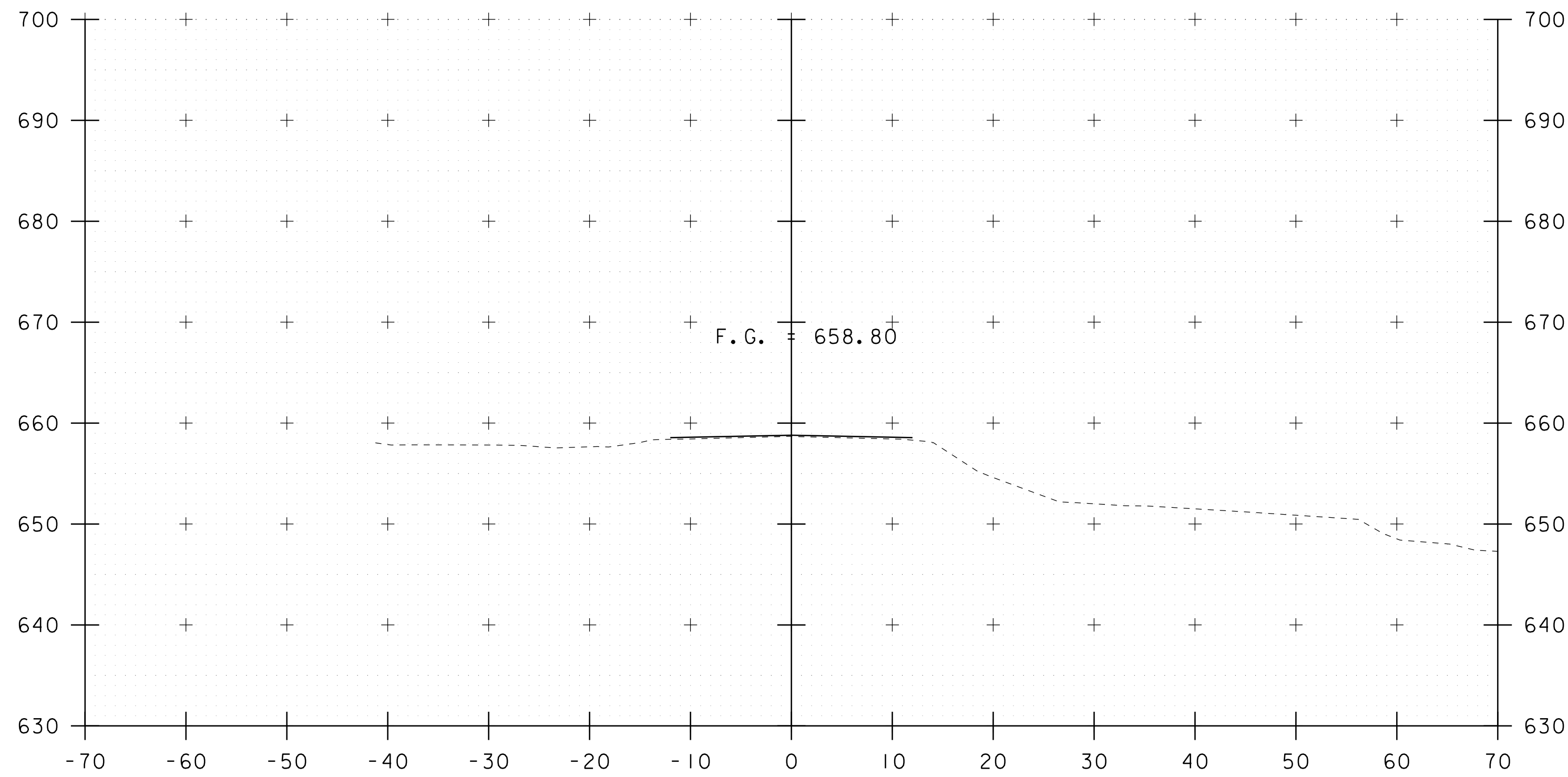


**TOWN HIGHWAY 43 PROFILE**

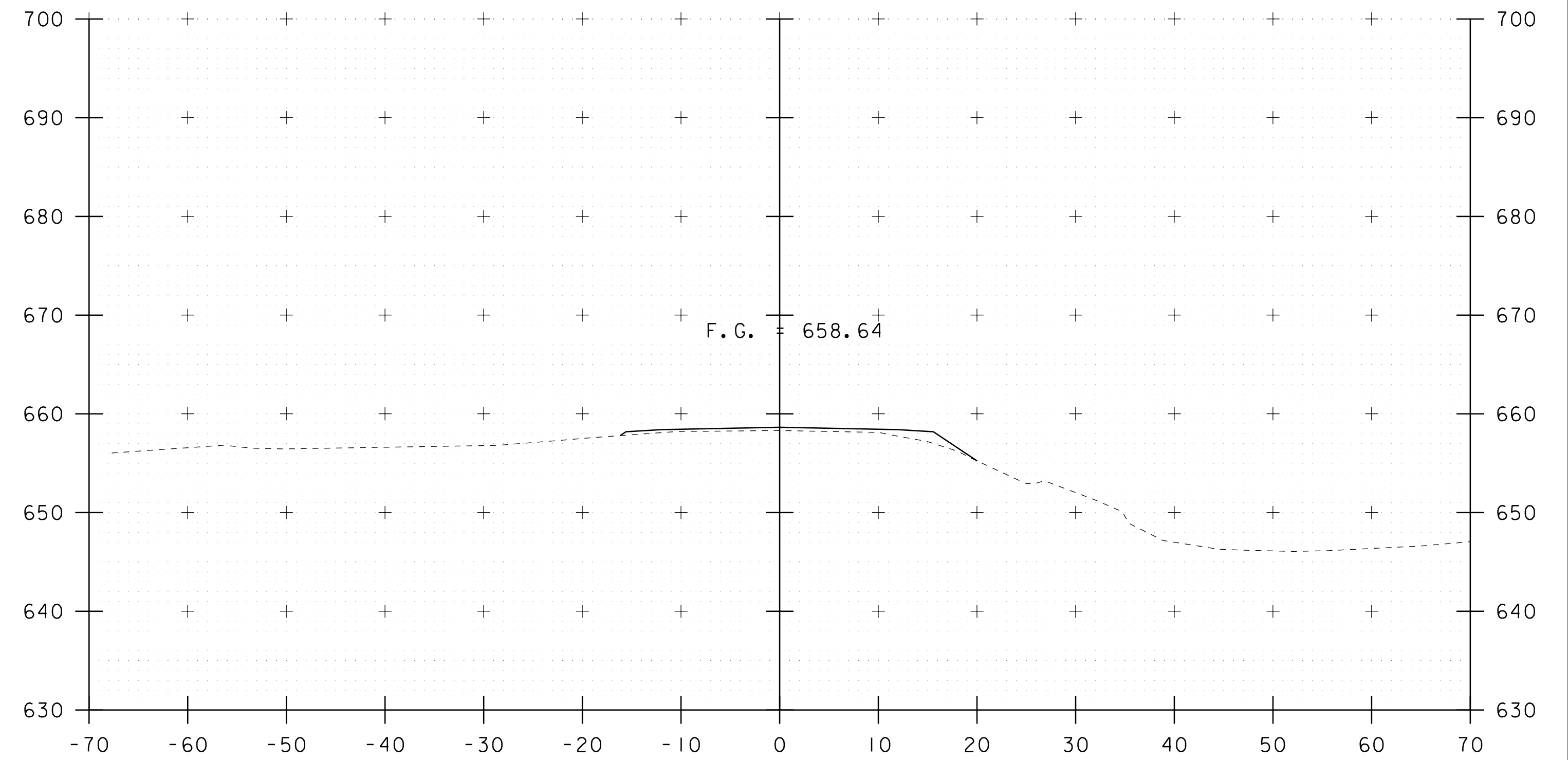
SCALE: HORIZONTAL 1"=20'-0"  
 VERTICAL 1"=10'-0"

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

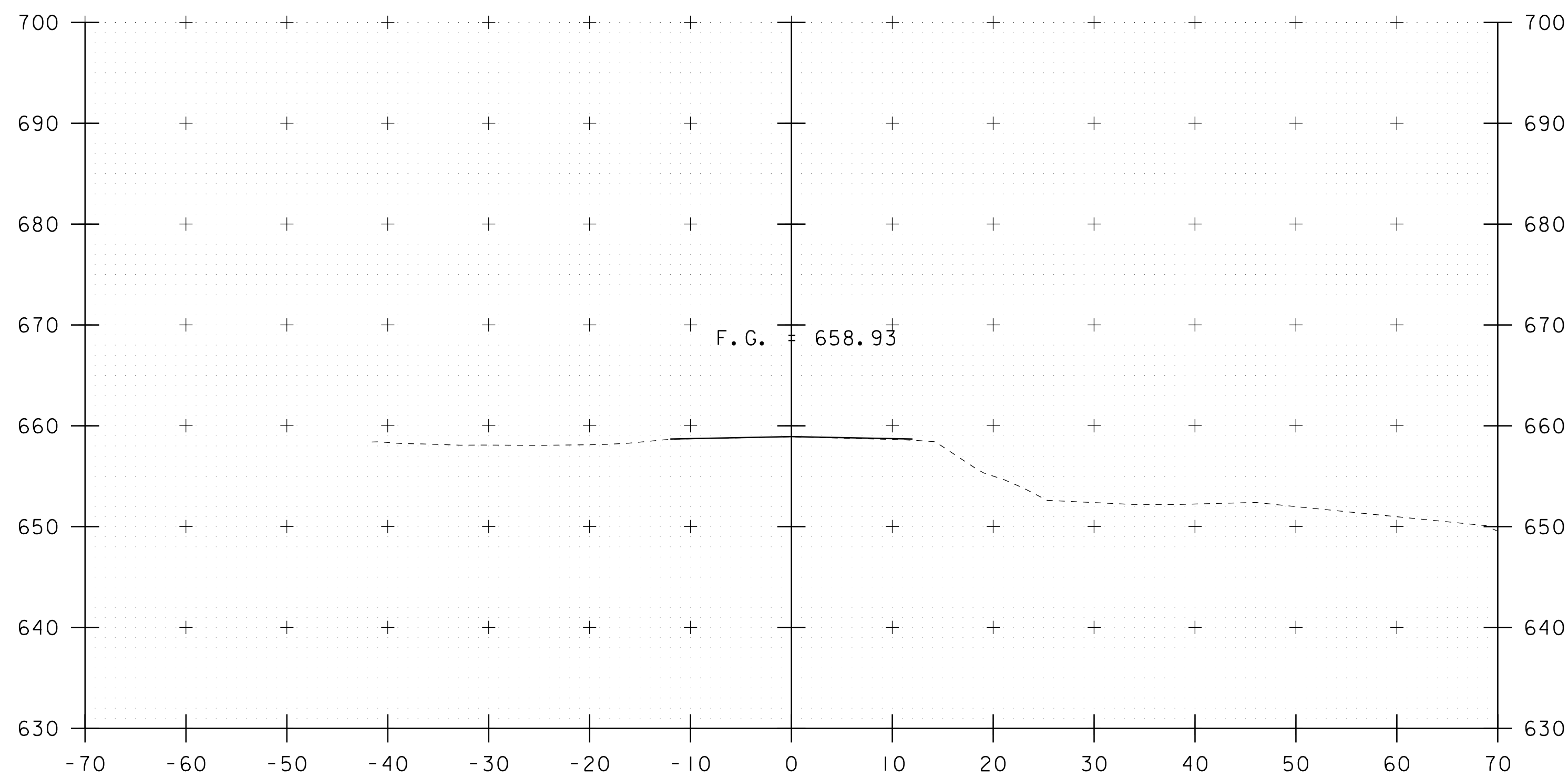
PROJECT NAME: STOWE	PLOT DATE: 22-AUG-2018
PROJECT NUMBER: BO 1446(37)	DRAWN BY: D.D.BEARD
FILE NAME: I2J660/si2j660profile.dgn	CHECKED BY:
PROJECT LEADER: C. CARLSON	SHEET 6 OF 13
DESIGNED BY: L.J.STONE	
PROFILE SHEET	



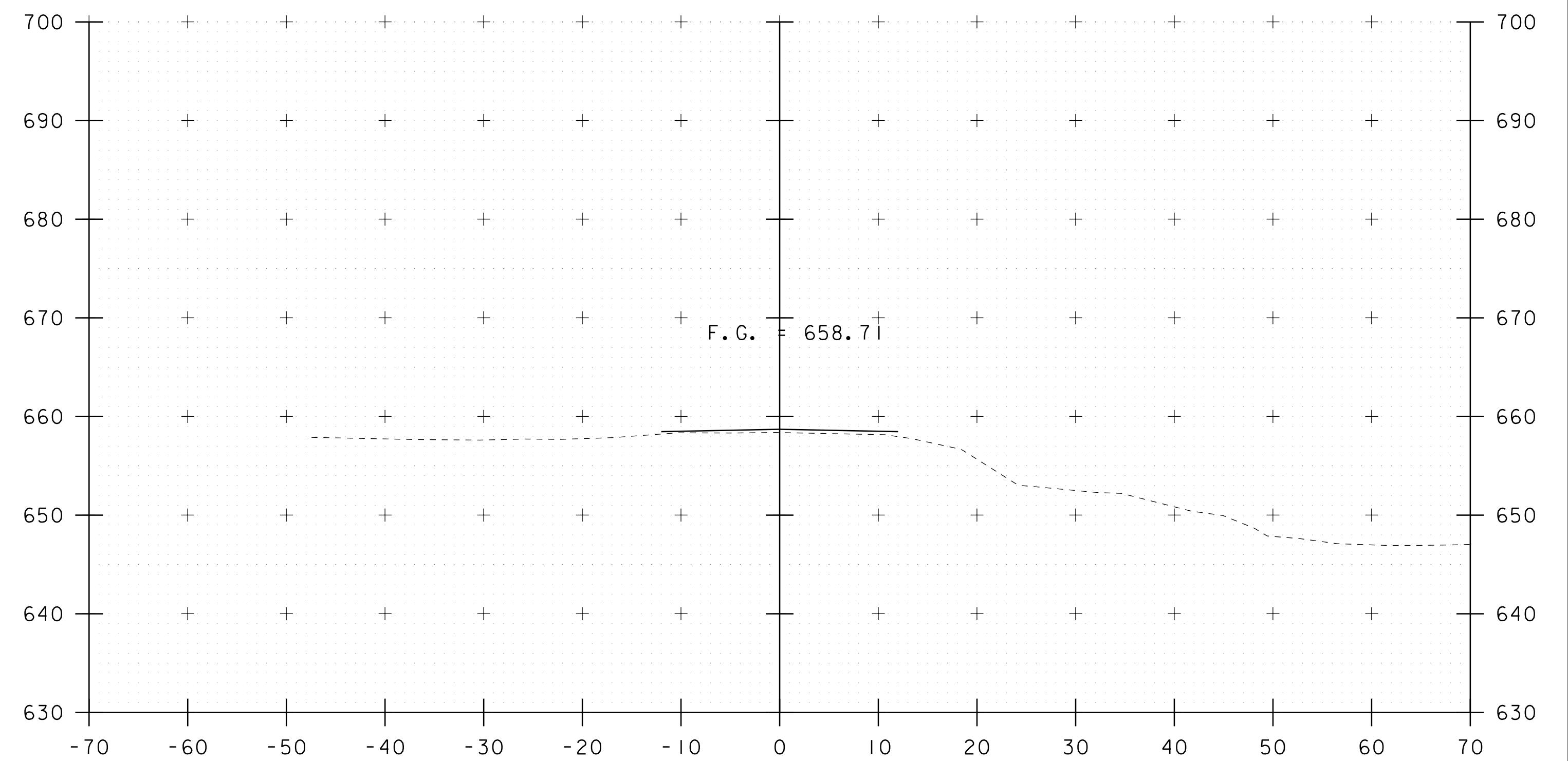
12+25



12+75



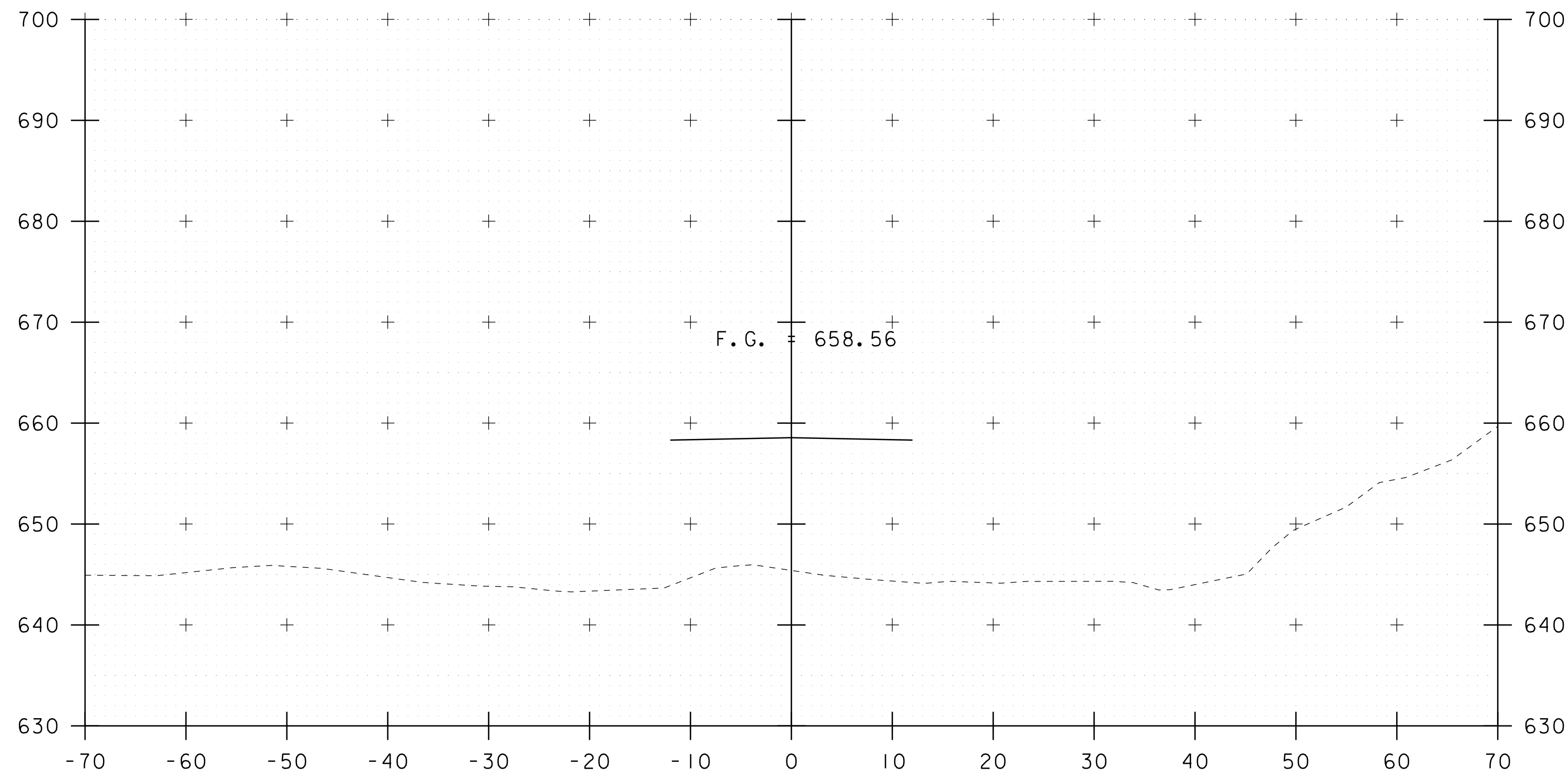
12+00



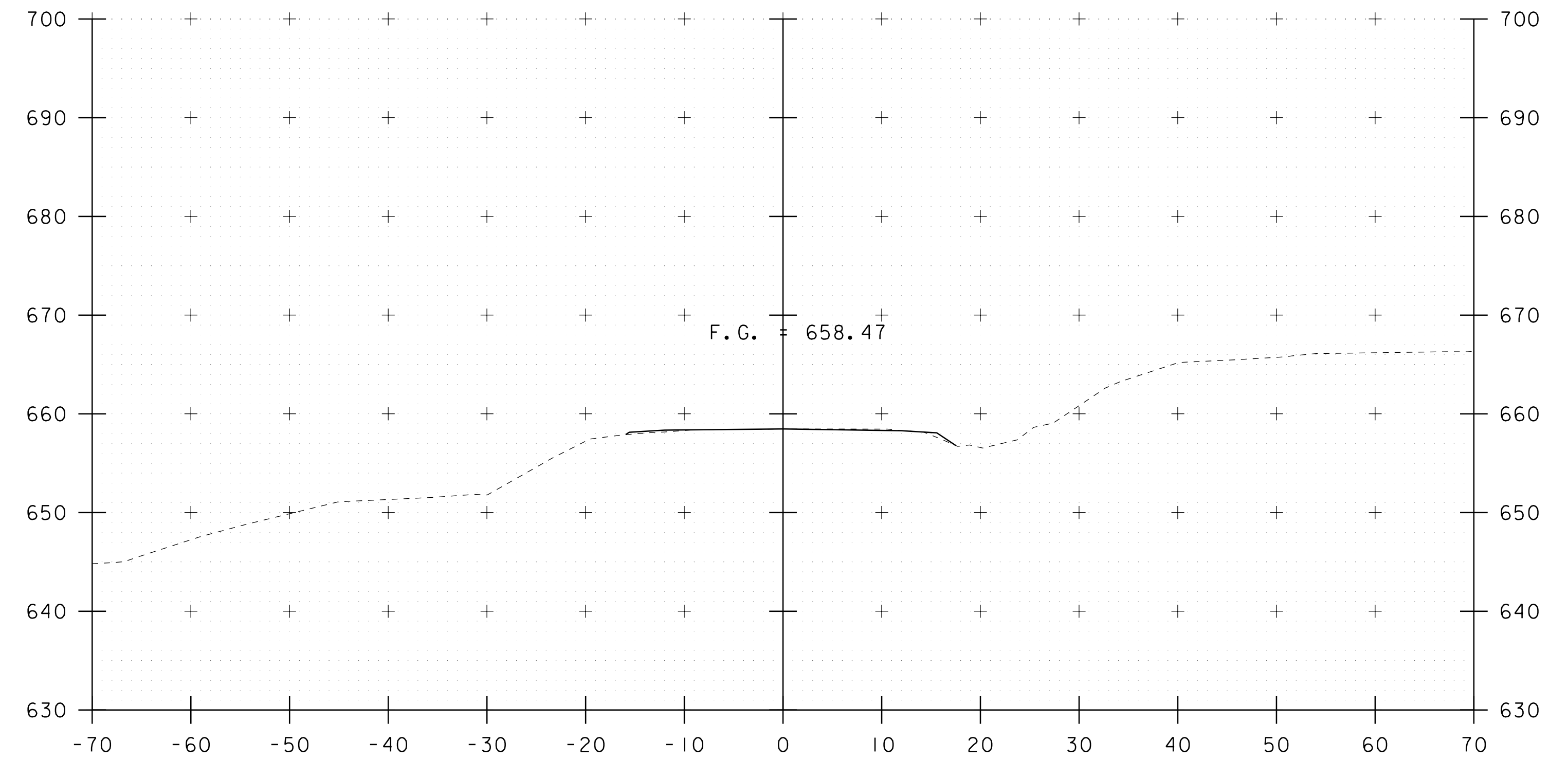
12+50

STA. 12+00 TO STA. 12+75

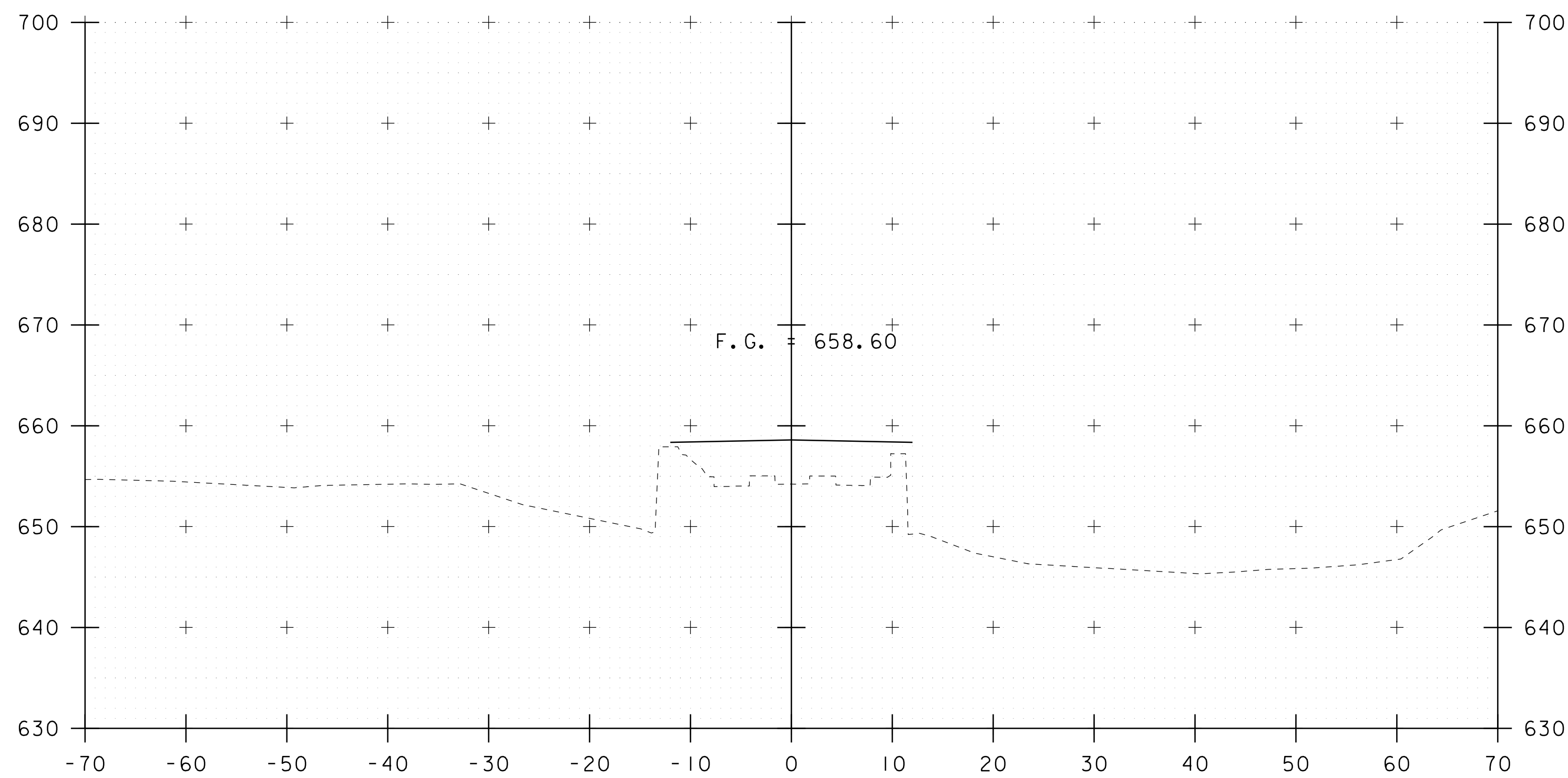
PROJECT NAME: STOWE	
PROJECT NUMBER: BO 1446(37)	
FILE NAME: sl2j660xs.dgn	PLOT DATE: 22-AUG-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: -----	CHECKED BY: -----
TH14 CROSS SECTIONS I	SHEET 7 OF 13



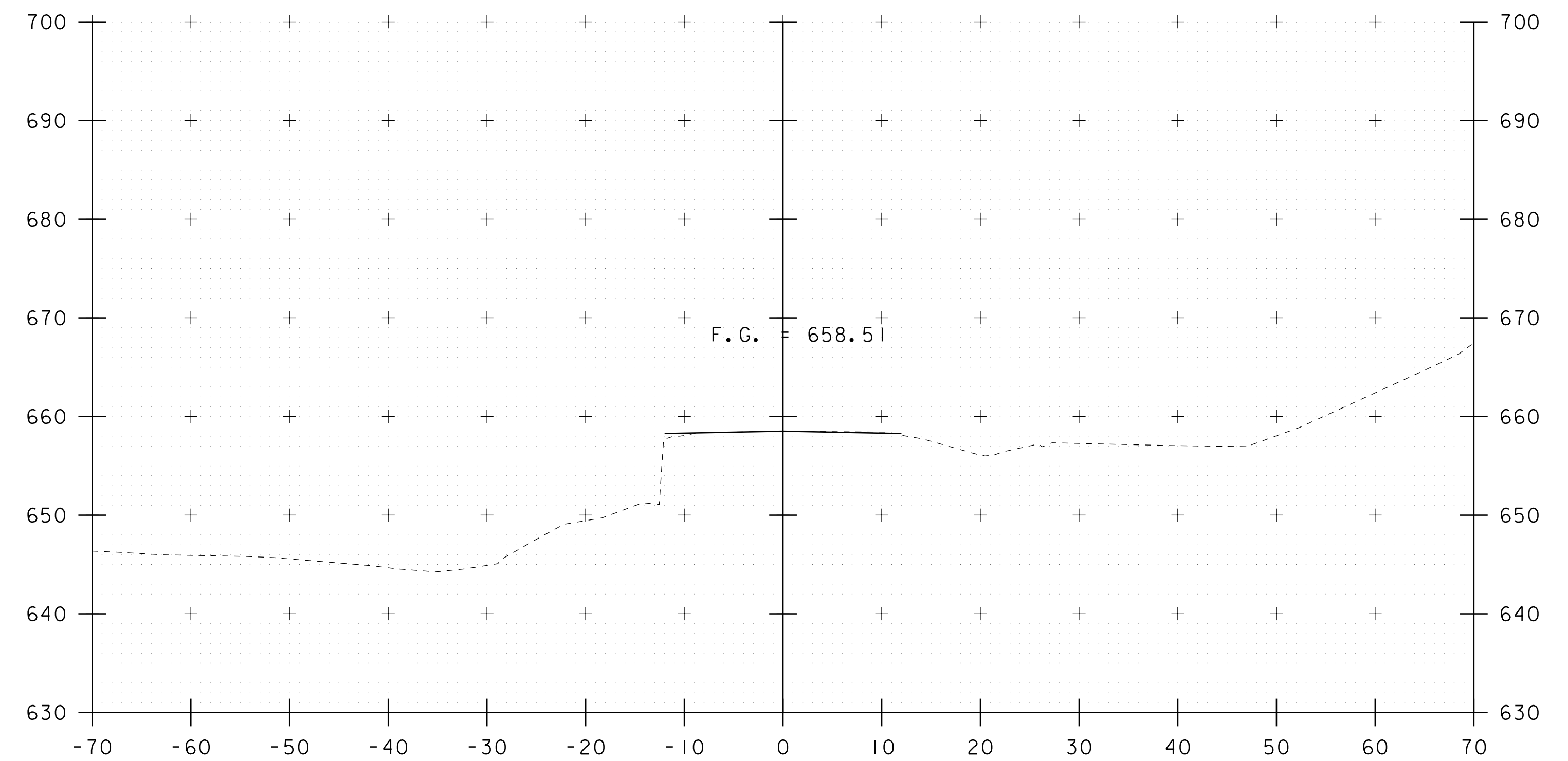
13+25



13+75



13+00

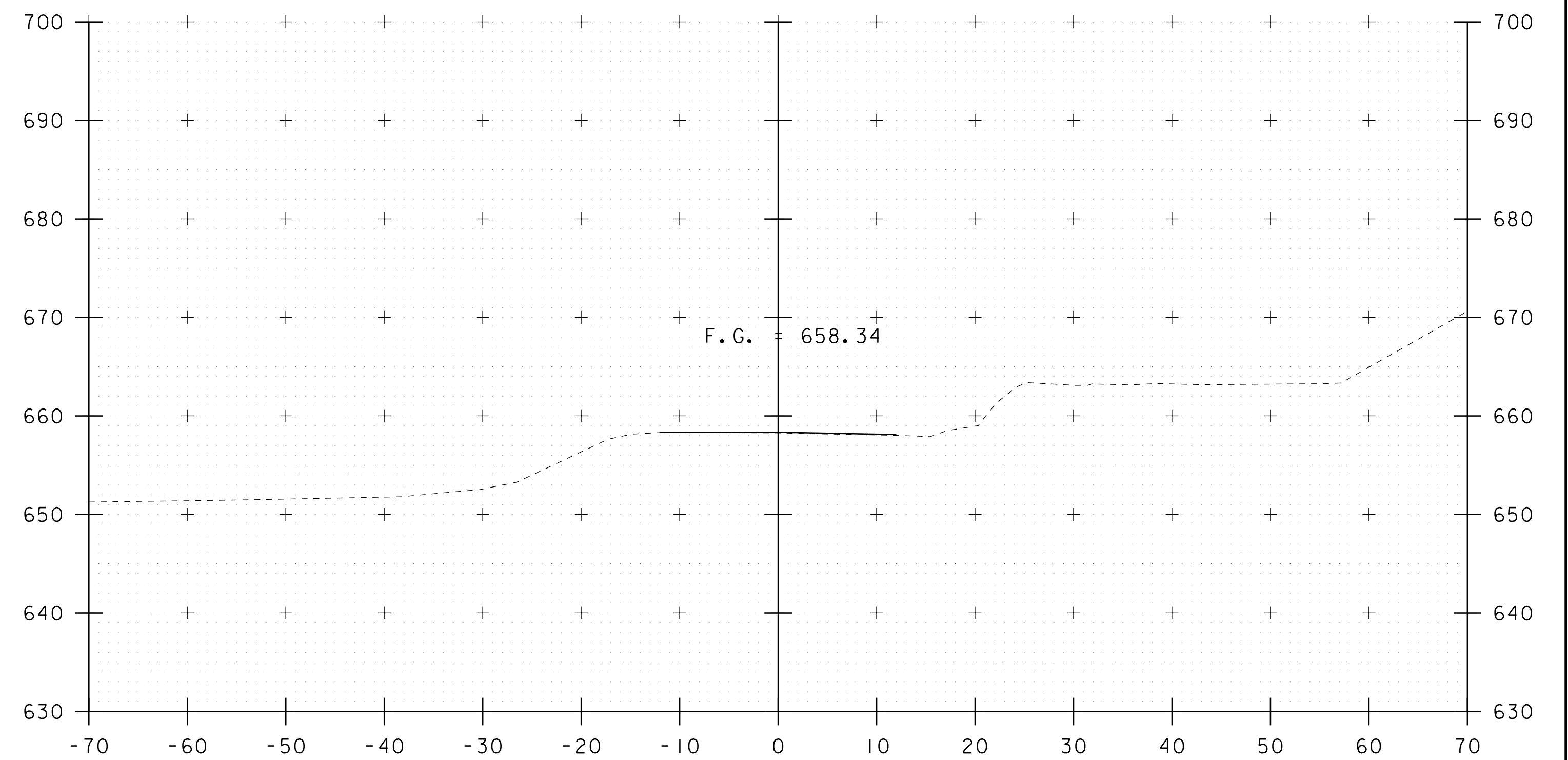
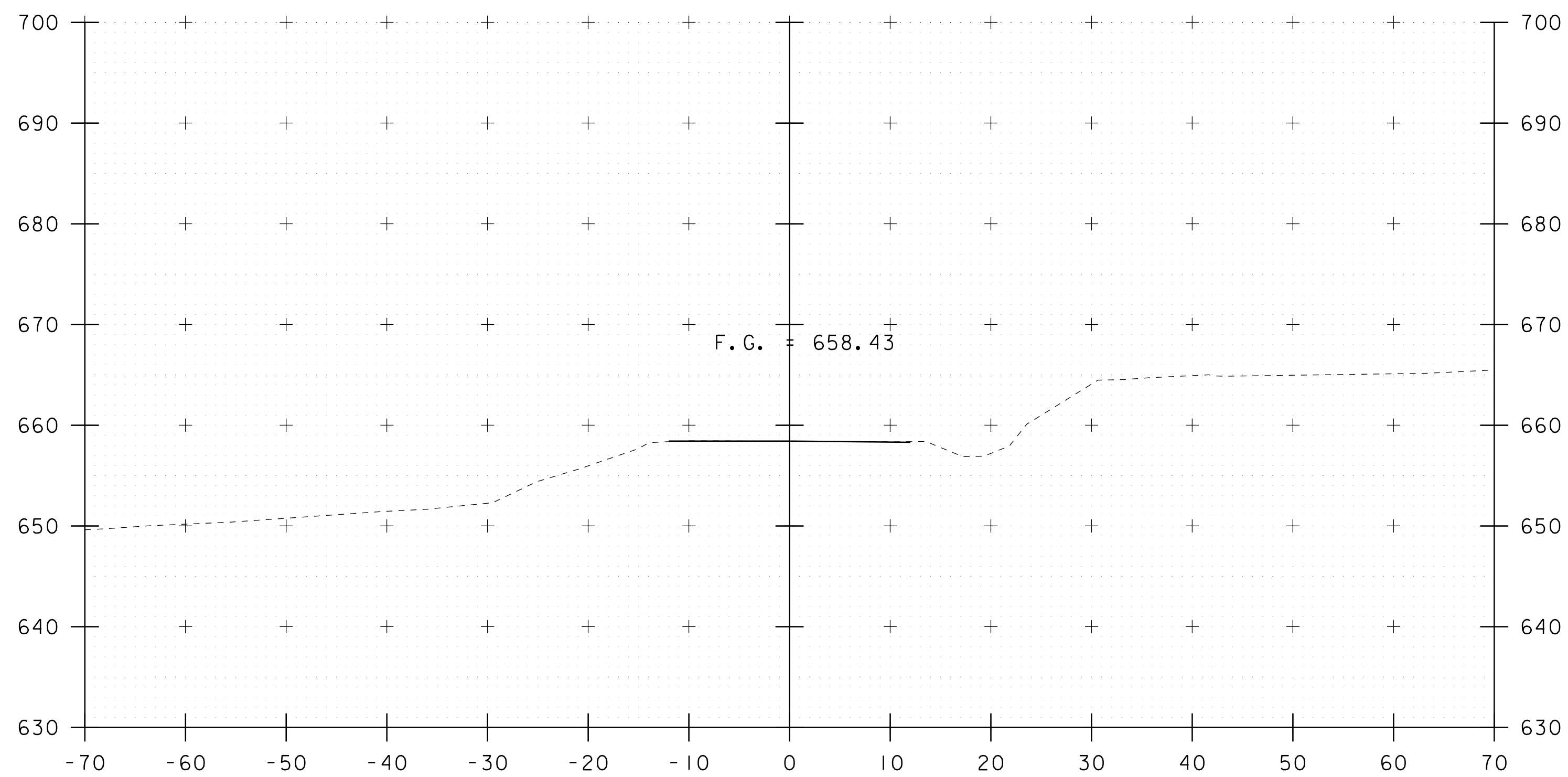
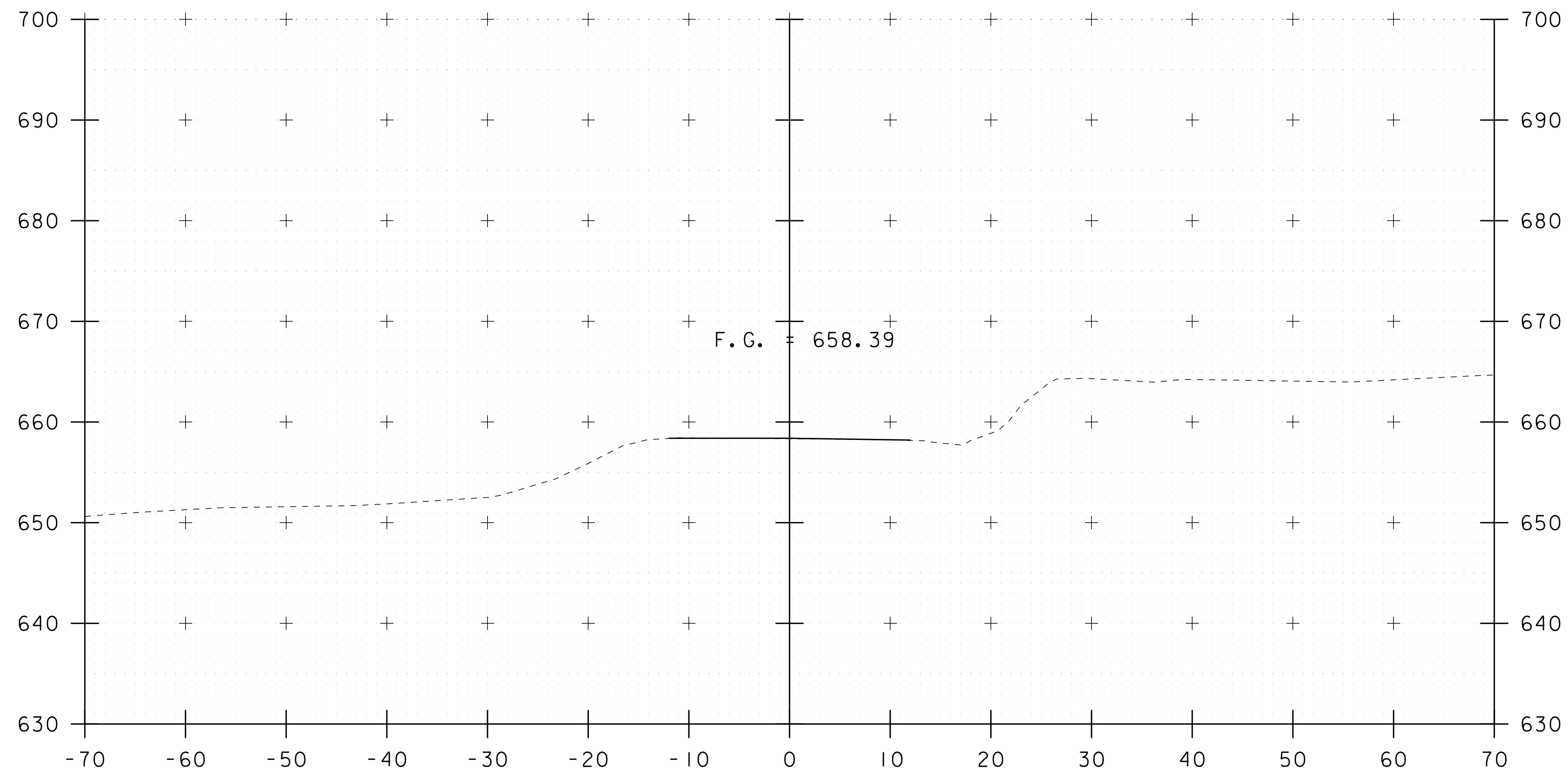


13+50

STA. 13+00 TO STA. 13+75

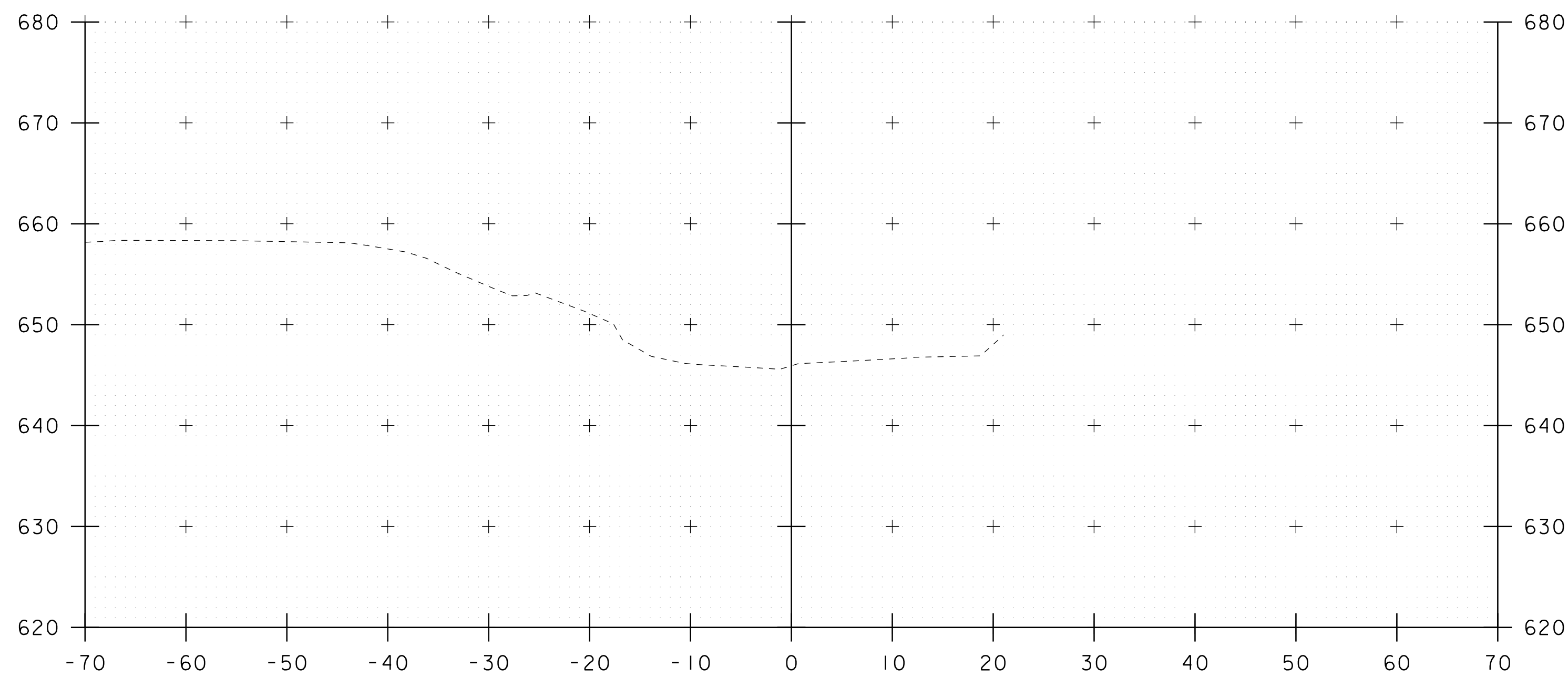
PROJECT NAME: STOWE	PLOT DATE: 22-AUG-2018
PROJECT NUMBER: BO 1446(37)	DRAWN BY: M.LONGSTREET
FILE NAME: sl2j660xs.dgn	DESIGNED BY: -----
PROJECT LEADER: C. CARLSON	CHECKED BY: -----
TH14 CROSS SECTIONS 2	SHEET 8 OF 13



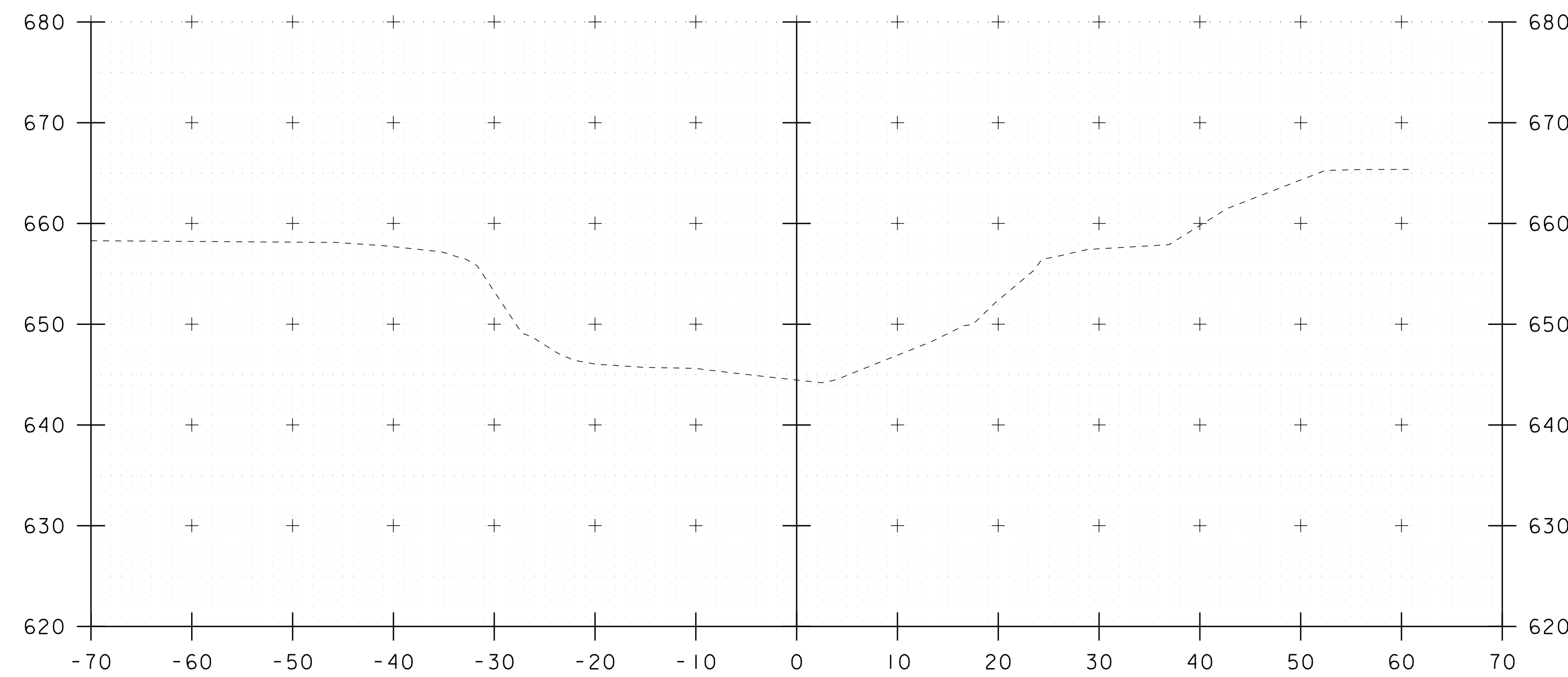


STA. 14+00 TO STA. 14+50

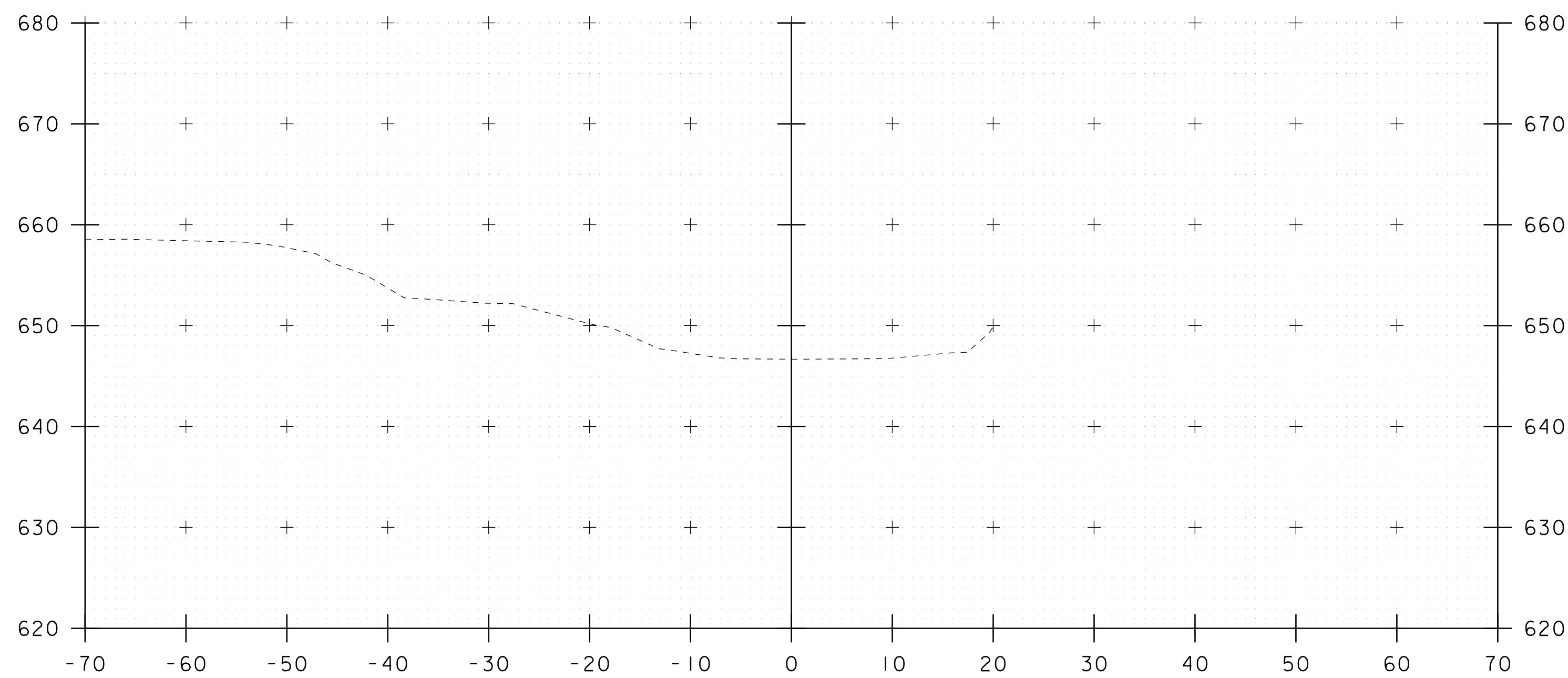
PROJECT NAME: STOWE	PLOT DATE: 22-AUG-2018
PROJECT NUMBER: BO 1446(37)	DRAWN BY: M.LONGSTREET
FILE NAME: sl2j660xs.dgn	DESIGNED BY: -----
PROJECT LEADER: C. CARLSON	CHECKED BY: -----
TH14 CROSS SECTIONS 3	SHEET 9 OF 13



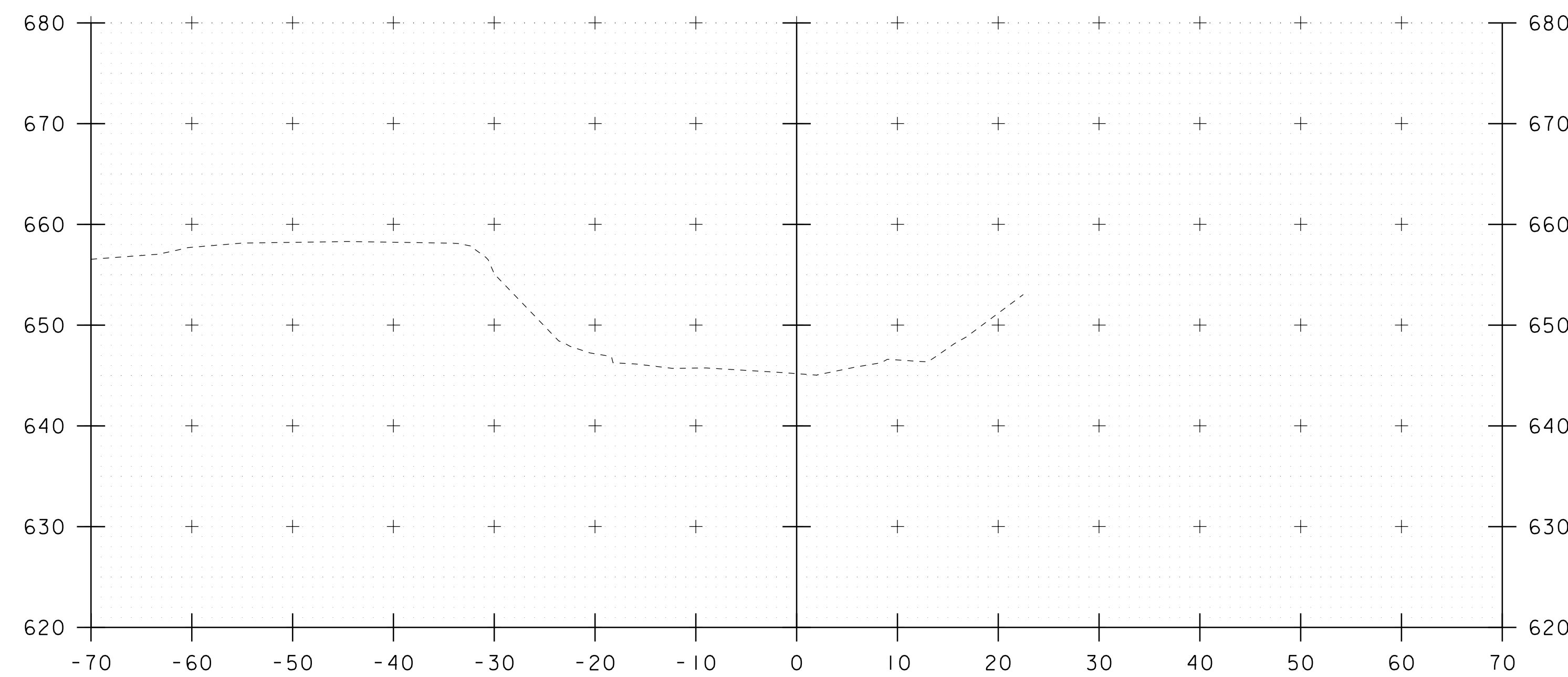
50+75



51+25



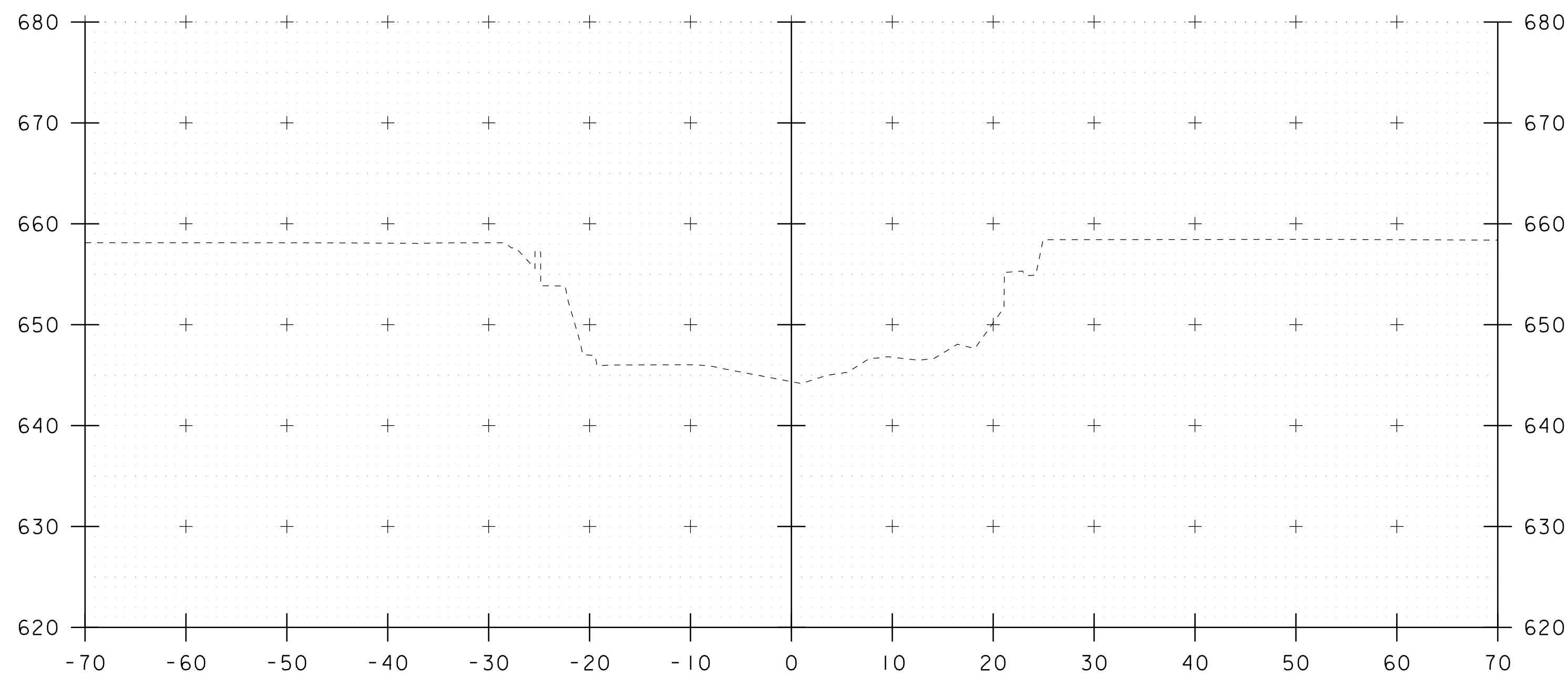
50+50



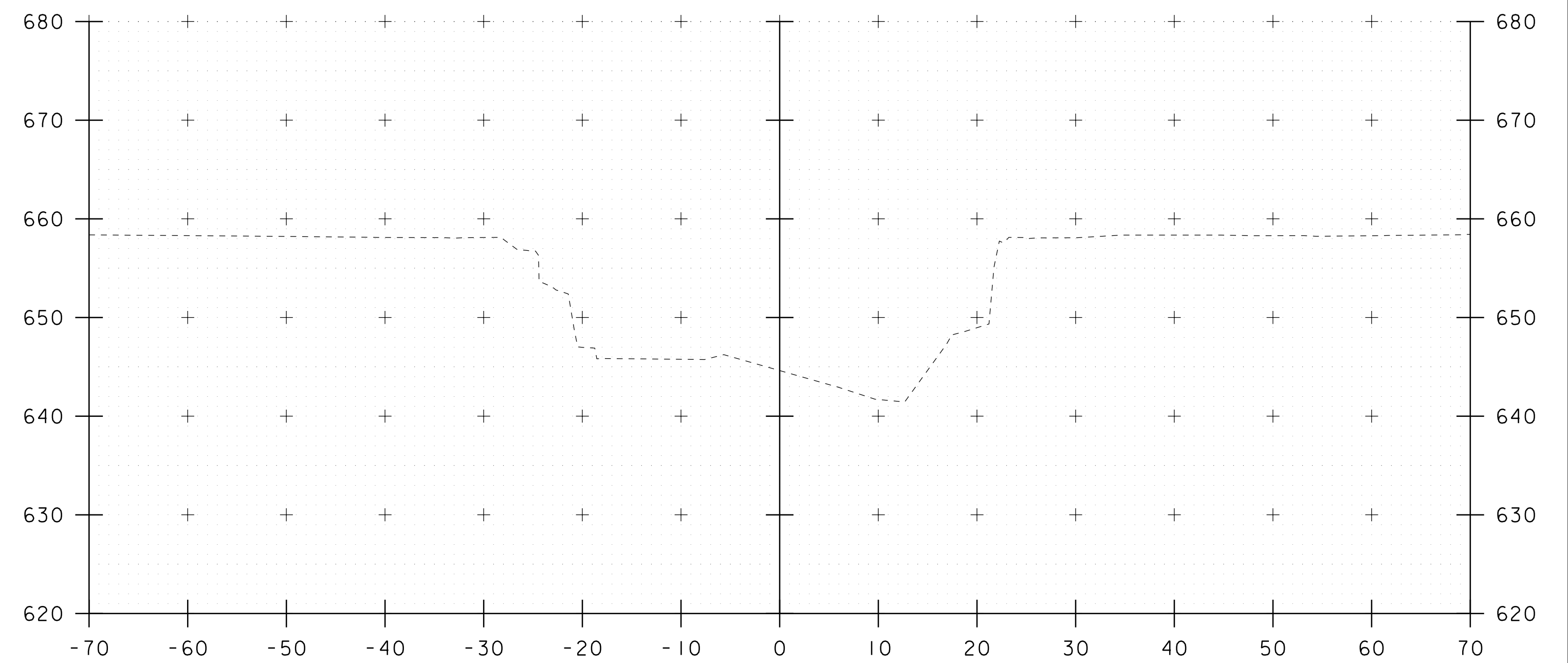
51+00

STA. 50+50 TO STA. 51+25

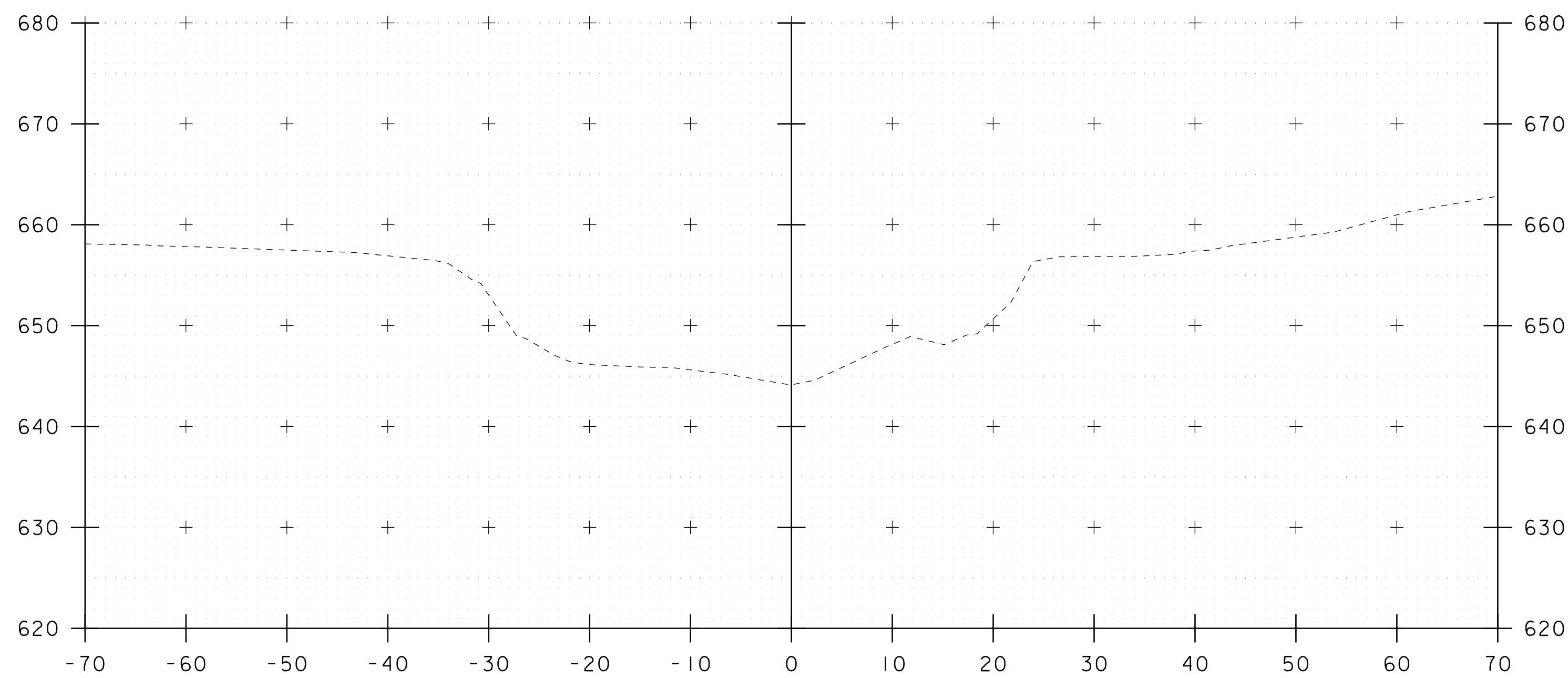
PROJECT NAME: STOWE	PLOT DATE: 22-AUG-2018
PROJECT NUMBER: BO 1446(37)	DRAWN BY: M.LONGSTREET
FILE NAME: sl2j660xs.dgn	DESIGNED BY: -----
PROJECT LEADER: C. CARLSON	CHECKED BY: -----
CHANNEL CROSS SECTIONS 1	SHEET 10 OF 13



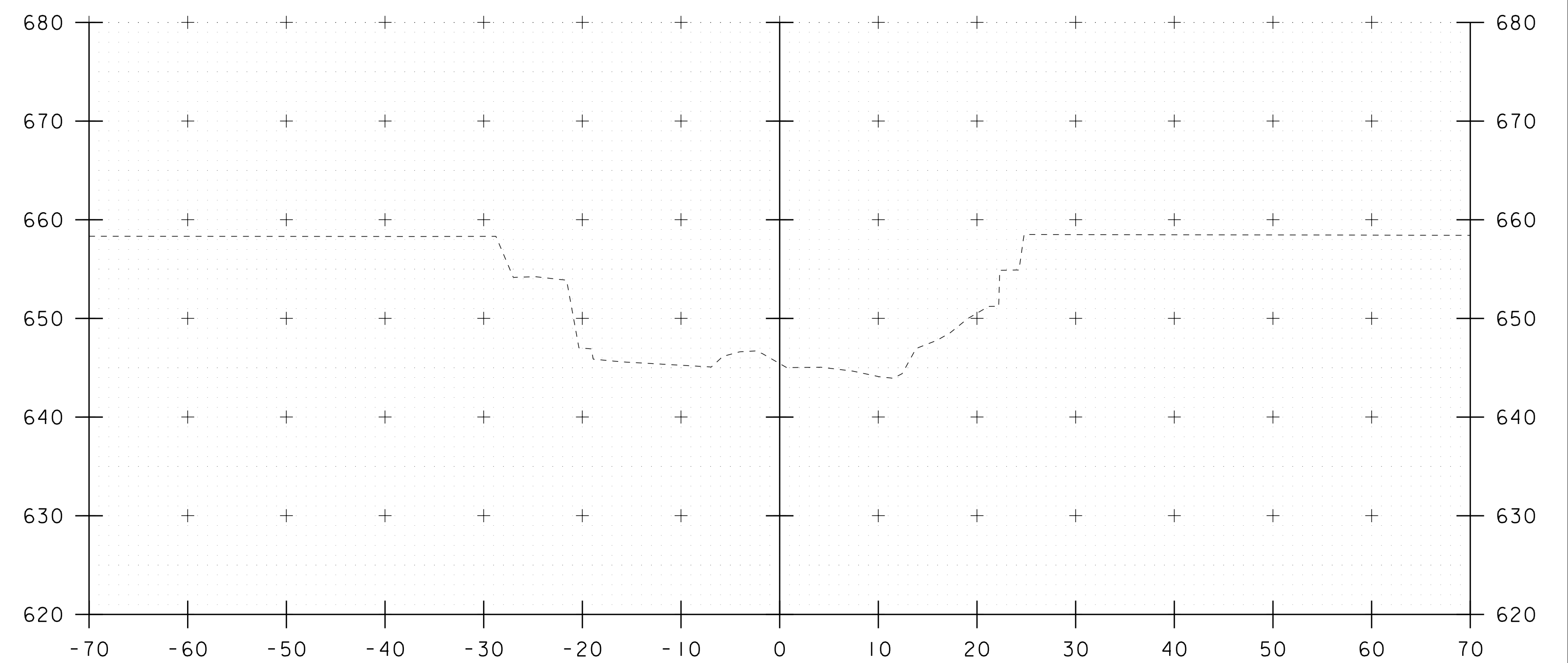
51+40



51+60



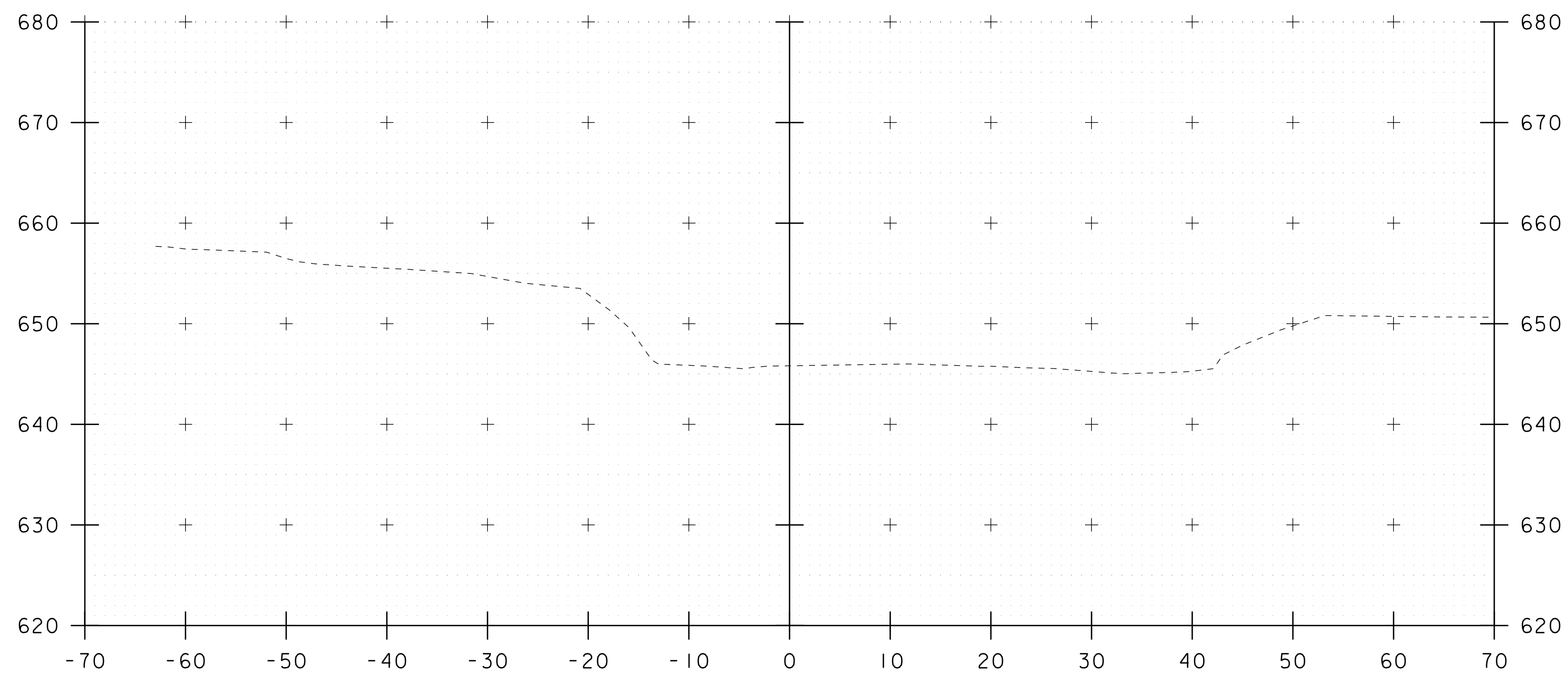
51+30



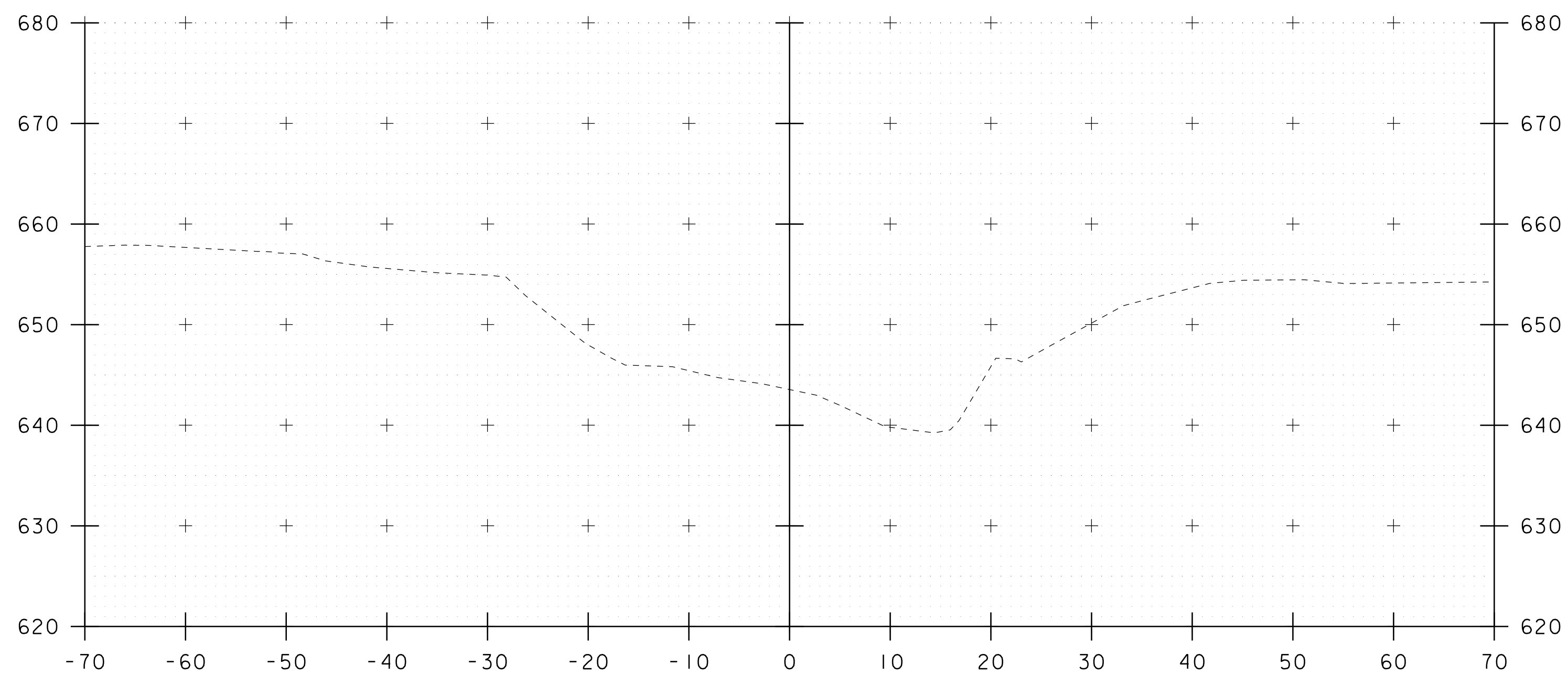
51+50

STA. 51+30 TO STA. 51+60

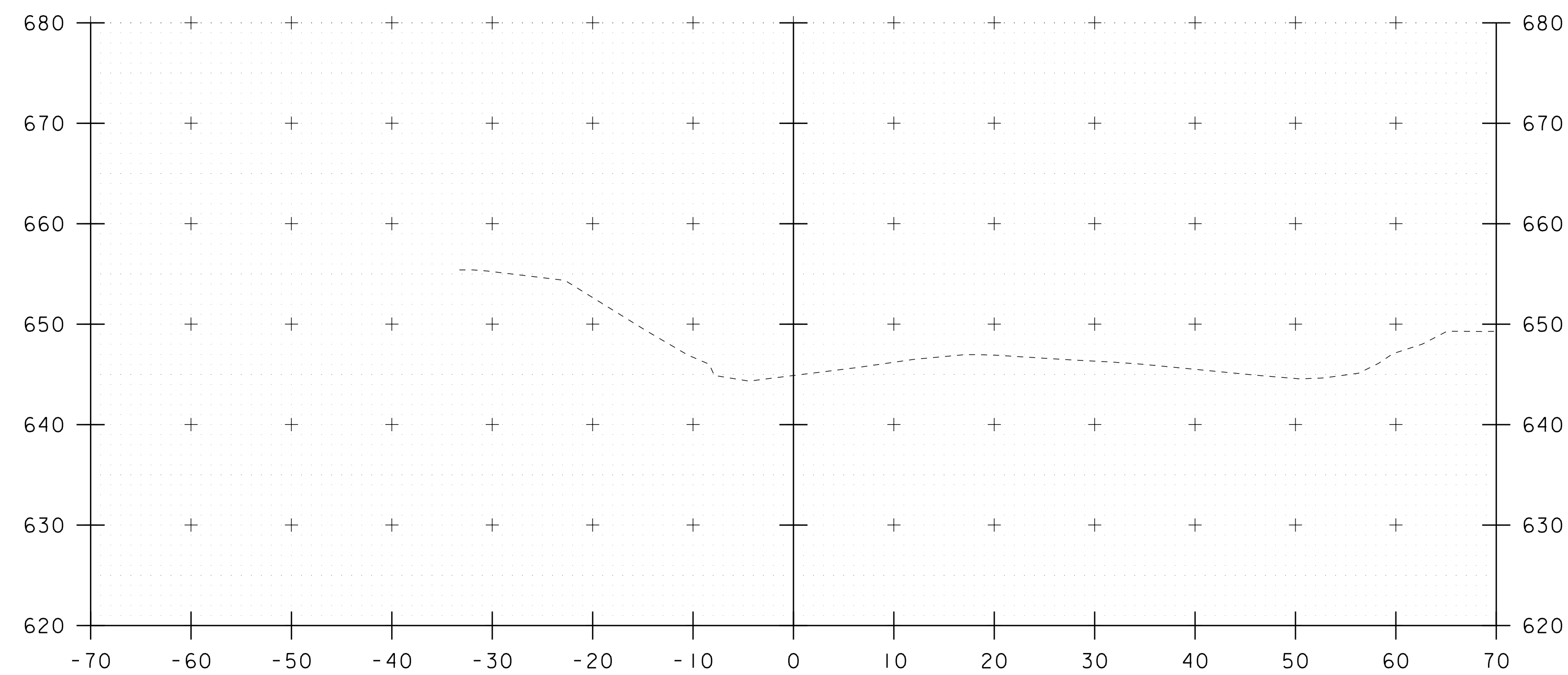
PROJECT NAME: STOWE	PLOT DATE: 22-AUG-2018
PROJECT NUMBER: BO 1446(37)	DRAWN BY: M.LONGSTREET
FILE NAME: sl2j660xs.dgn	DESIGNED BY: -----
PROJECT LEADER: C. CARLSON	CHECKED BY: -----
CHANNEL CROSS SECTIONS 2	SHEET 11 OF 13



52+00



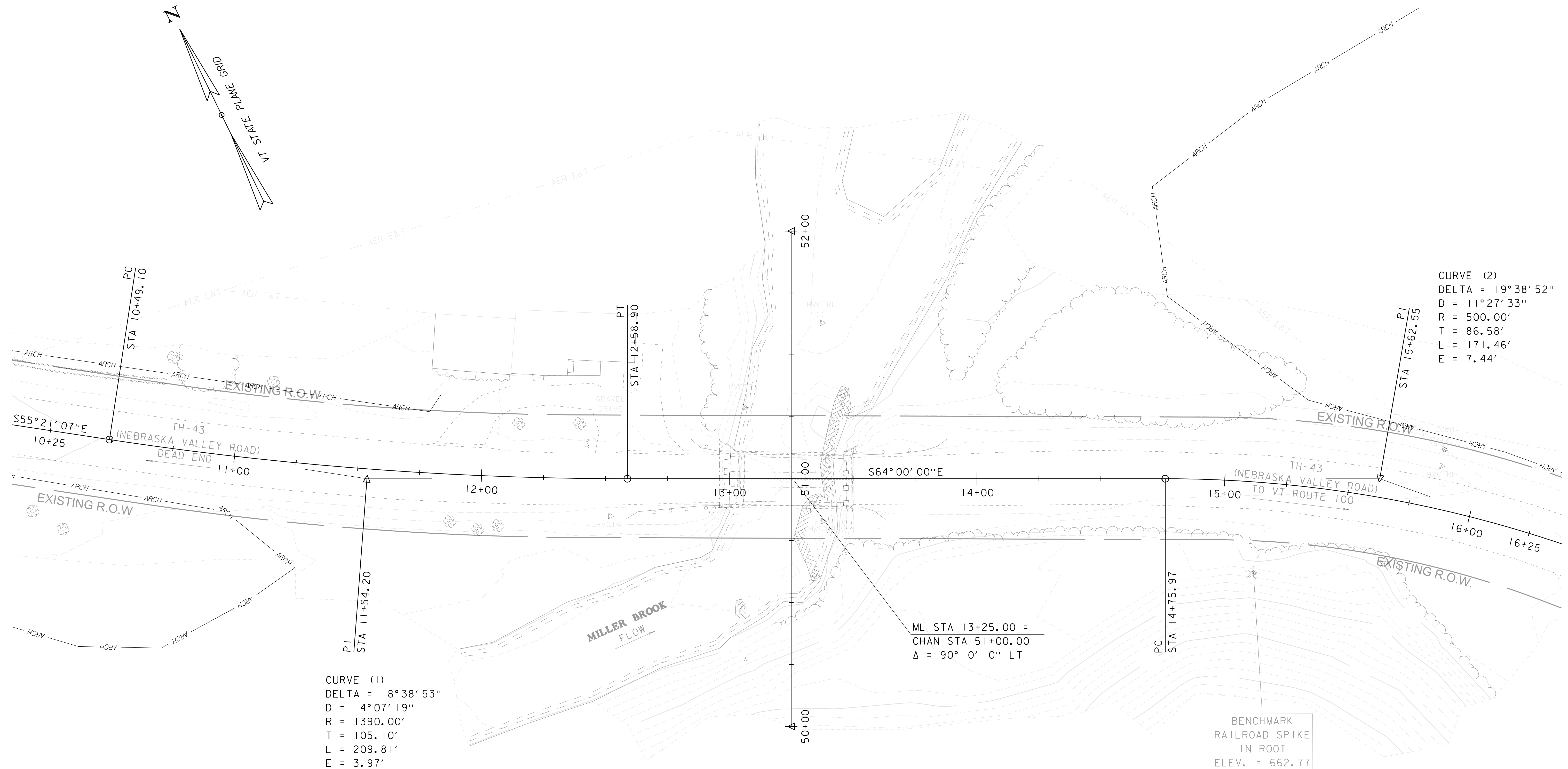
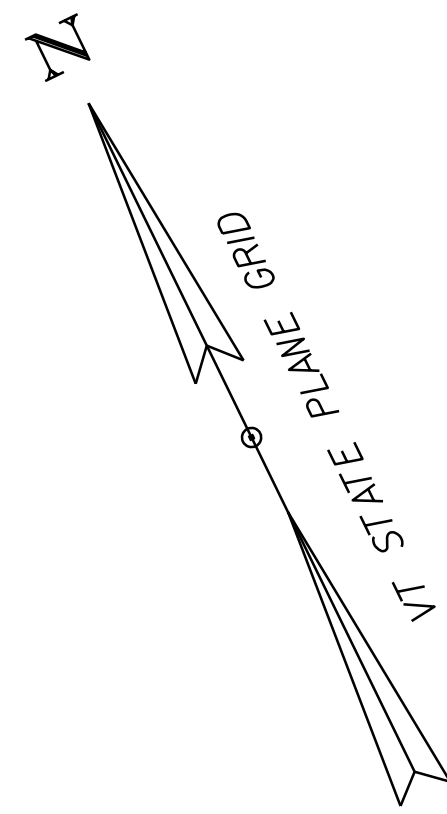
51+75



52+25

STA. 51+75 TO STA. 52+25

PROJECT NAME: STOWE	
PROJECT NUMBER: BO 1446(37)	
FILE NAME: sl2j660xs.dgn	PLOT DATE: 22-AUG-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: M.LONGSTREET
DESIGNED BY: -----	CHECKED BY: -----
CHANNEL CROSS SECTIONS 3	SHEET 12 OF 13



CURVE (2)  
 DELTA = 19° 38' 52"  
 D = 11° 27' 33"  
 R = 500.00'  
 T = 86.58'  
 L = 171.46'  
 E = 7.44'

CURVE (1)  
 DELTA = 8° 38' 53"  
 D = 4° 07' 19"  
 R = 1390.00'  
 T = 105.10'  
 L = 209.81'  
 E = 3.97'

ML STA 13+25.00 =  
 CHAN STA 51+00.00  
 Δ = 90° 0' 0" LT

BENCHMARK  
 RAILROAD SPIKE  
 IN ROOT  
 ELEV. = 662.77

EXISTING BRIDGE INFORMATION  
 BUILT 1948  
 54' SINGLE SPAN ROLLED BEAM  
 CONCRETE CAST-IN-PLACE DECK

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

PROJECT NAME: STOWE	
PROJECT NUMBER: BO 1446(37)	
FILE NAME: sl2j660border.dgn	PLOT DATE: 22-AUG-2018
PROJECT LEADER: C. CARLSON	DRAWN BY: K. YELINEK
DESIGNED BY: K. YELINEK	CHECKED BY:
BBSOURCE SITE PLAN	SHEET 13 OF 13