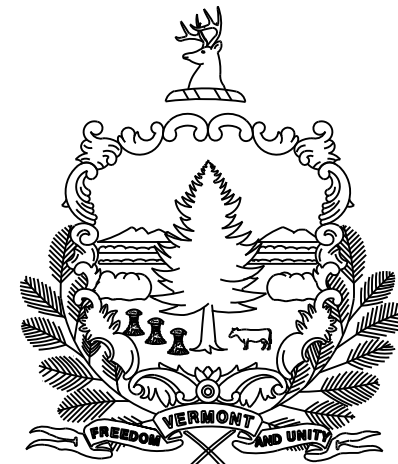


PROJECT NOTES:

1. A 3 DAY BRIDGE CLOSURE PERIOD IS ANTICIPATED WITH A SIGNED DETOUR.
2. TEMPORARY DRIVEWAYS WILL BE CONSTRUCTED DURING INSTALLATION OF THE NEW STRUCTURE.
3. TRUCKS WILL NOT BE ABLE TO MAKE IT THROUGH THE US 5/VT 105 INTERSECTION ON THE SIGNED DETOUR. A UTO WILL BE POSITIONED AT THIS LOCATION DURING THE CLOSURE TO PREVENT TRUCKS FROM ATTEMPTING THIS TURN. TRUCKS WILL NEED TO DETOUR TO VT 58 BETWEE IRASBURG AND LOWELL. THERE WILL BE STATIC SIGNS AT CRITICAL INTERSECTIONS NOTIFYING TRUCKS OF THE DETOUR, BUT THE TRUCK DETOUR WILL NOT BE SIGNED. ADDITIONAL NOTIFICATION TO THE TRUCKING COMMUNITY WILL BE PROVIDED THROUGH OUTREACH PROIR TO THE 3 DAY CLOSURE.
4. THERE WILL BE NO UTILITY RELOCATION. THERE ARE AREIAL LINES ON THE WESTERN SIDE OF VT 14, INCLUDING HIGH VOLTAGE TRANSMISSION LINES THAT THE CONTRACTOR WILL NEED TO WORK AROUND.
5. ALL WORK WILL BE PERFORMED WITHIN THE EXISTING ROW.
6. PROJECT LIMITS HAVE BEEN DETERMINED, BUT THE CROSS SECTIONS ARE STILL BEING REFINED.
7. THE BOX CULVERT WILL HAVE A 6"X6" BEVEL ON THE OPENING AT THE INLET END.

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

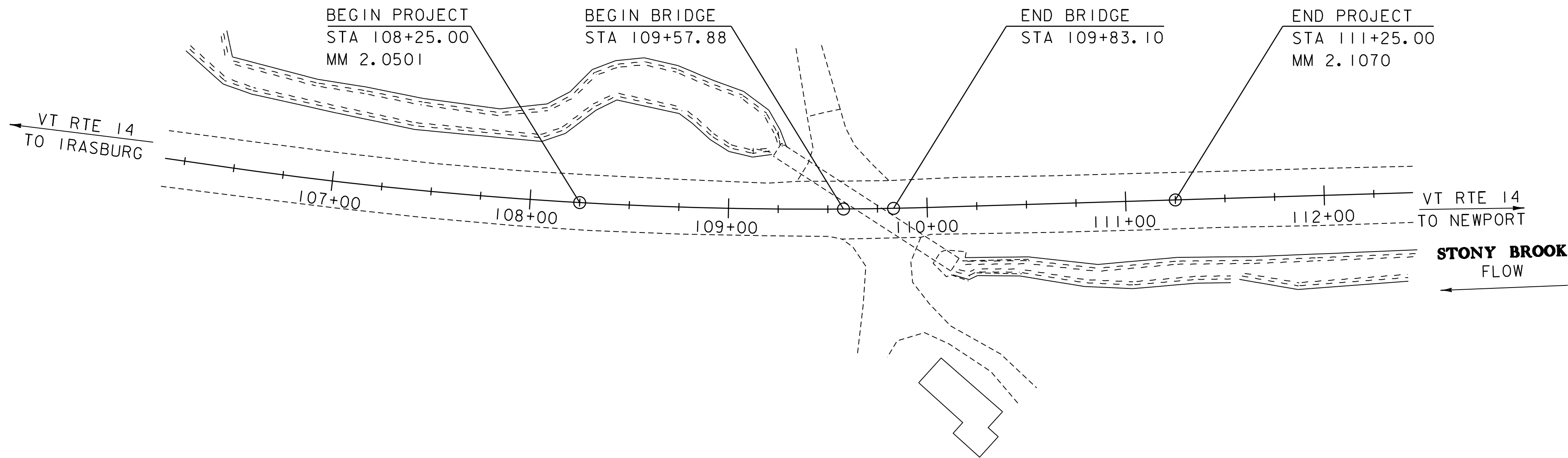
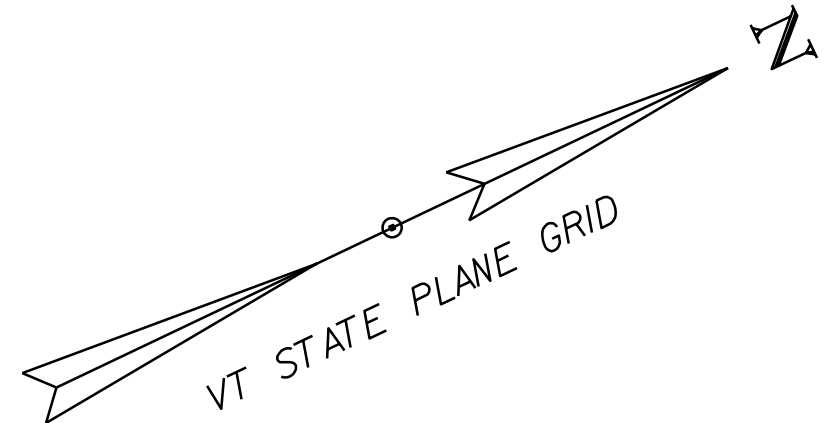
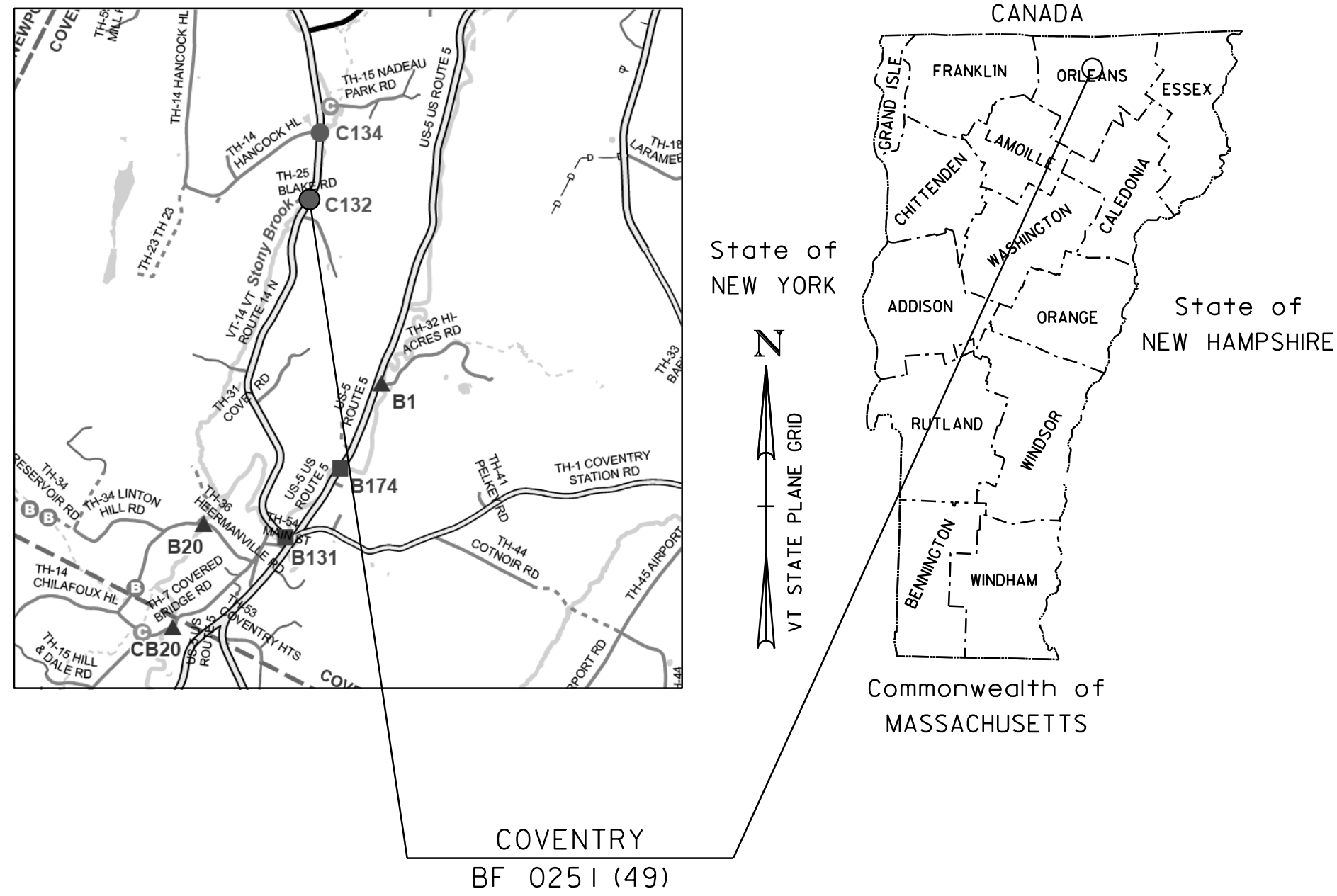
TOWN OF COVENTRY
COUNTY OF ORLEANS

ROUTE NO : VT ROUTE 14 , MAJOR COLLECTOR BRIDGE NO: 132

PROJECT LOCATION: IN THE TOWN OF COVENTRY ON VT ROUTE 14 OVER STONY BROOK ,
APPROXIMATELY 2.7 MILES SOUTH OF THE JUNCTION WITH VT ROUTE 100.

PROJECT DESCRIPTION: REMOVAL AND REPLACEMENT OF BRIDGE NO. 132 WITH RELATED APPROACH
ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 25.22 FEET
LENGTH OF ROADWAY: 274.78 FEET
LENGTH OF PROJECT: 300.00 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 :	05/2021
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (2011)

PRELIMINARY PLANS

9/5/2023

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : ROBERT KLINEFELTER, P.E.	
PROJECT NAME : COVENTRY	
PROJECT NUMBER : BF 025I(49)	
SHEET 1 OF 29 SHEETS	

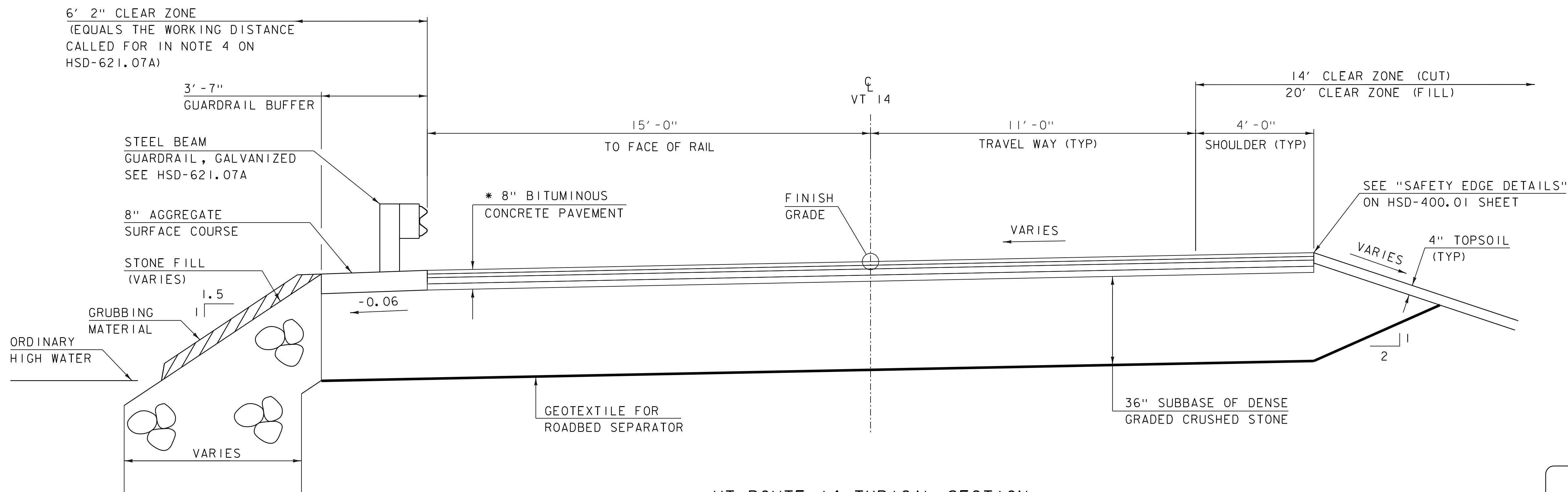
SCALE 1" = 40' - 0"
40 0 40

PRELIMINARY INFORMATION SHEET (CULVERT)

INDEX OF SHEETS	
PLAN SHEETS	
1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET
3 - 4	TYPICAL SECTIONS 1-2
5	LEGEND SHEET
6	TIE SHEET
7	ALIGNMENT SHEET
8	EXISTING CONDITIONS
9	LAYOUT SHEET
10 - 11	VT 14 PROFILE SHEET 1-2
12	MATERIAL TRANSITION & BANKING DIAGRAM
13	UTILITY LAYOUT SHEET
14	REGIONAL DETOUR
15	REGIONAL DETOUR DETAILS
16	BORING INFORMATION SHEET
17	BORING LOGS
18	RAIL LAYOUT SHEET
19	MOMENT SLAB
20	BOX CULVERT PLAN AND ELEVATION
21	BOX CULVERT END DETAILS
22 - 26	VT 14 CROSS SECTIONS 1-5
27 - 29	CHANNEL CROSS SECTIONS 1-3
DETAIL SHEETS	

TRAFFIC DATA						AS BUILT "REBAR" DETAIL		
YEAR	ADT	DHV	% D	% T	ADTT	20 year ESAL for flexible pavement from 2025 to 2045 : 2563000	LEVEL I	LEVEL II
2025	2200	250	58	12.2	250	40 year ESAL for flexible pavement from 2025 to 2065 : 5470000	TYPE:	TYPE:
2045	2400	270	58	14.9	340	Design Speed : 50 mph	GRADE:	GRADE:

FINAL HYDRAULICS REPORT			
TOWN:	Coventry	COUNTY:	Orleans
PROJECT NO.:	BF 0251(49)	STREAM:	Stoney Brook
HIGHWAY NO.:	Vermont Route 14	STRUCTURE NO.:	Bridge 132
STRUCTURE AND CHANNEL INFORMATION:			
DRAINAGE AREA:	4.66 mi ²		
DESIGN FLOW FREQUENCY:	2% AEP (Q50)		
STRUCTURE SPAN:	12-ft		
STRUCTURE HEIGHT:	8-ft		
STRUCTURE EMBEDMENT:	2-ft		
STRUCTURE INFILL MATERIAL:	E-Stone Fill Type II		
STRUCTURE WATERWAY AREA:	72 ft ²		
STRUCTURE INLET INVERT ELEVATION:	779.42-ft		
STRUCTURE OUTLET INVERT ELEVATION:	777.55-ft		
STRUCTURE LENGTH:	93.5-ft		
FLOW FREQUENCY:	FLOW:	HEADWATER ELEVATION:	OUTLET VELOCITY:
AEP 50% (Q2):	140 cfs	784.15-ft	6.43-fps
AEP 10% (Q10):	220 cfs	785.78-ft	9.04-fps
AEP 4% (Q25):	280 cfs	786.14-ft	10.06-fps
AEP 2% (Q50):	370 cfs	786.74-ft	10.75-fps
AEP 1% (Q100):	530 cfs	787.51-ft	11.53-fps
TAILWATER ELEVATION @ DESIGN FLOW:	Normal Depth		
ROADWAY OVERTOPPING FREQUENCY:	>Q100		
DISCHARGE OVER ROAD @ Q100:	None		
REQUIRED CHANNEL BANK PROTECTION:	Type II Stone Fill		
	TRAFFIC MAINTENANCE NOTES		
	1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR. 2. TRAFFIC SIGNALS ARE NOT NECESSARY. 3. SIDEWALKS ARE NOT NECESSARY		
	DESIGN VALUES		
	1. DESIGN LIVE LOAD	HL-93	
	2. FUTURE PAVEMENT	dp:	3.0 INCH
	3. CULVERT OPENING	D:	12.00 FT
	4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	---
	5. PRESTRESSING STRAND	fy:	---
	6. PRESTRESSED CONCRETE STRENGTH	f'c:	---
	7. PRESTRESSED CONCRETE RELEASE STRENGTH	f'cl:	---
	8. HIGH PERFORMANCE CONCRETE, CLASS PCD	f'c:	---
	9. HIGH PERFORMANCE CONCRETE, CLASS PCS	f'c:	---
	10. CONCRETE HIGH PERFORMANCE, CLASS SCC	f'c:	---
	11. CONCRETE, CLASS C	f'c:	---
	12. REINFORCING STEEL	fy:	60 KSI
	13. STRUCTURAL STEEL AASHTO M270 (WEATHERING)	fy:	50 KSI
	14. NOMINAL BEARING RESISTANCE OF SOIL	qn:	---
15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ:	---	
16. NOMINAL BEARING RESISTANCE OF ROCK	qn:	---	
17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	φ:	---	
LRFR LOAD RATING FACTORS			
LOADING LEVELS	TRUCK		
	H-20	HL-93	352
TONNAGE	20	36	36
INVENTORY			
POSTING			
OPERATING			
COMMENTS:	TABLE TO BE COMPLETED BY CONTRACTOR'S DESIGNER		
CULVERT DESIGN CRITERIA			
1. PROPOSED CULVERT IS A PRECAST CONCRETE STRUCTURE (12'-0" X 8'-0" X 93'-6" BOX).			
2. CULVERT ENDS ARE NOT SKEWED.			
3. CULVERT WILL BE SET AT A SLOPE OF 12.00 IN. ON 50 FT.			
4. CULVERT WILL REQUIRE FISH PASSAGE ACCOMODATIONS			
5. CULVERT CONSTRUCTION WILL REQUIRE A TEMPORARY PIPE			
6. CULVERT WILL HAVE A 6"X6" BEVEL ON THE OPENING AT THE INLET END			
PROJECT NAME:			COVENTRY
PROJECT NUMBER:			BF 0251(49)
FILE NAME:			s21b025Pl.dgn
PROJECT LEADER:			R. KLINEFELTER
DESIGNED BY:			S. COLEY
PRELIMINARY INFORMATION SHEET			
PLOT DATE:			9/5/2023
DRAWN BY:			S. COLEY
CHECKED BY:			R. KLINEFELTER
SHEET			2 OF 29



- * 1 1/2" BITUMINOUS CONCRETE PAVEMENT, TYPE IVS OVER
1 1/2" BITUMINOUS CONCRETE PAVEMENT, TYPE IVS OVER
2 1/2" BITUMINOUS CONCRETE PAVEMENT, TYPE IIS OVER
2 1/2" BITUMINOUS CONCRETE PAVEMENT, TYPE IIS

DESIGN LANE	1,486,540
PERFORMANCE GRADE ASPHALT BINDER	70-28
DESIGN NUMBER OF GYRATIONS	65

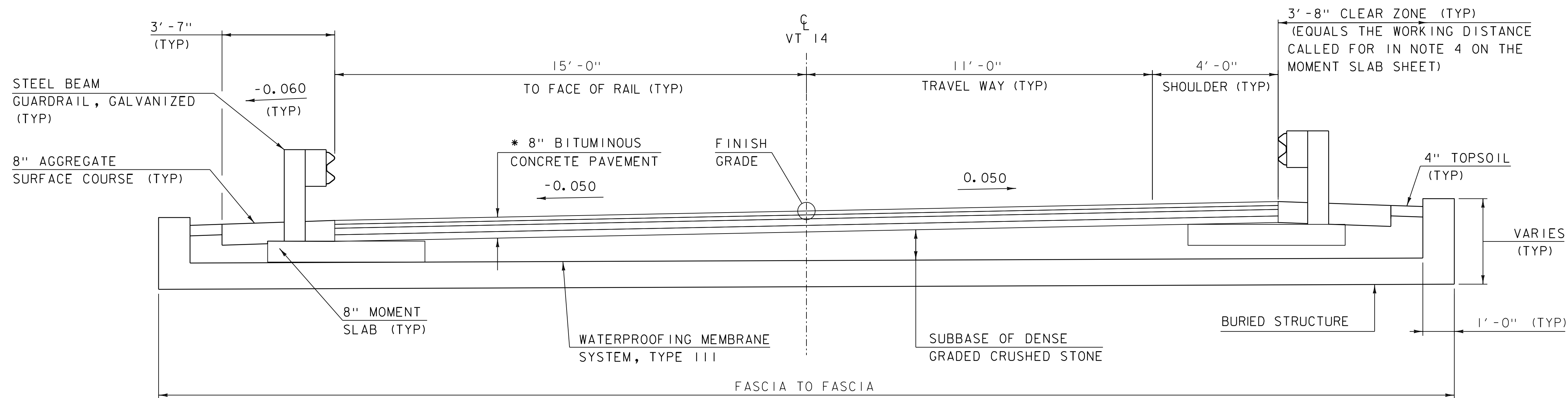
VT ROUTE 14 TYPICAL SECTION

SCALE: 1/2" = 1'-0"

MATERIAL TOLERANCES

(IF USED ON PROJECT)

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



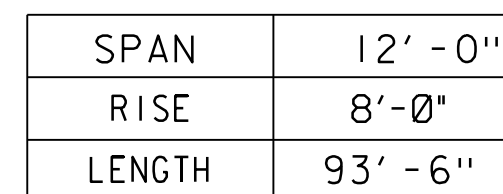
VT ROUTE 14 BURIED STRUCTURE TYPICAL SECTION

SCALE: 1/2" = 1'-0"

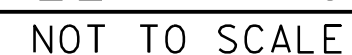
PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

FILE NAME: S21b025typ.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
TYPICAL SECTIONS 1

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 3 OF 29

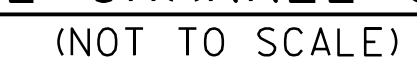


NOT TO SCALE



THE CUTOFF WALL MAY BE OMITTED IF THE DEPTH OF STONE FILL, STREAM BED MATERIAL PLUS THE THICKNESS TO THE BOTTOM OF THE BOX MEETS OR EXCEEDS THE LISTED SCOUR DEPTH.

	DIMENSION
SCOUR DEPTH	4' - 0"
RETENTION SILL HEIGHT	1' - 0"
UNDERCUT	1' - 0"



- 1) WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
- 2) THE CONTRACTOR SHALL CREATE A LOW FLOW CHANNEL IN THE STREAM BED MATERIAL AS DIRECTED BY THE ENGINEER.
- 3) GRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED UNDERNEATH DOWNSPOUTS. SEE THE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

	THICKNESS	TYPE
STONE FILL	3' - 0"	TYPE III
STONE FILL, STREAM BED MATERIAL	2'-0"	E-STONE TYPE II

FILE NAME: s2lb025+yp.dgn	PLOT DATE: 9/5/2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
TYPICAL SECTIONS 2	SHEET 4 OF 29

SYMBOL OGY LEGEND NOTE

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

■	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

POINT	CODE	DESCRIPTION
-------	------	-------------

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

CODE	DESCRIPTION
------	-------------

CB CHORD BEARING

UNDERGROUND UTILITIES

ABOVE GROUND UTILITIES (AERIAL)

PROJECT CONSTRUCTION SYMBOLOLOGY

_____ CZ _____ CLEAR ZONE
 _____ PLAN LAYOUT MATCHLINE

	TOP OF CUT SLOPE
	TOE OF FILL SLOPE
	STONE FILL
	BOTTOM OF DITCH
	CULVERT PROPOSED
	STRUCTURE SUBSURFACE
	PROJECT DEMARCATION FENCE
	BARRIER FENCE
	TREE PROTECTION ZONE (TPZ)
	STRIPING LINE REMOVAL
	SHEET PILES

BOUNDARY LINES

SR SR SR SLOPE RIGHTS

6F PROPERTY BOUNDARY

4F PROPERTY BOUNDARY

HAZARDOUS WASTE

EPSC MEASURES

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLLOGY

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

—— ARCH ——	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
—— HISTORIC ——	HISTORIC AREA
(H)	HISTORIC STRUCTURE

EXISTING FEATURES

A cross-section diagram of a railroad track and its surrounding infrastructure. The diagram shows a series of vertical lines representing railroad tracks at the top. Below the tracks are several horizontal lines representing different layers or structures. The labels on the right side of the diagram are: RAILROAD TRACKS, CULVERT (EXISTING), STONE WALL, WALL, WOOD LINE, BRUSH LINE, HEDGE, BODY OF WATER EDGE, and LEDGE EXPOSED.

RAILROAD TRACKS

CULVERT (EXISTING)

STONE WALL

WALL

WOOD LINE

BRUSH LINE

HEDGE

BODY OF WATER EDGE

LEDGE EXPOSED

FILE NAME: s2lb025legend.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
LEGEND SHEET	SHEET 5 OF 29

PRIMARY CONTROL

HVCTRL #1
NORTH = 868800.2690
EAST = 1701687.5590
ELEV. = 762.0100

TO REACH FROM THE NORTHERLY INTERSECTION OF ROUTES 5 AND 14 IN COVENTRY, GO NORTH ON ROUTE 14 FOR 1.25 MI (2.01 KM) TO THE SITE OF THE MARK ON THE LEFT, ABOUT 20 M (65.6 FT) SOUTHWEST OF A WOODS ROAD.

THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED PLASTIC CAP SET 4 CM (2 INCHES) BELOW GROUND SURFACE.

IT IS 6.5 M (21.3 FT) NORTHWEST OF THE CENTERLINE OF ROUTE 14, 16.5 M (54.1 FT) NORTH-NORTHWEST OF A 12 CM (5 INCHES) SPRUCE AND 21.2 M (69.6 FT) WEST OF A 20 CM (8 INCHES) SPRUCE.

HVCTRL #2
NORTH = 871888.3040
EAST = 1702649.4520
ELEV. = 789.5800

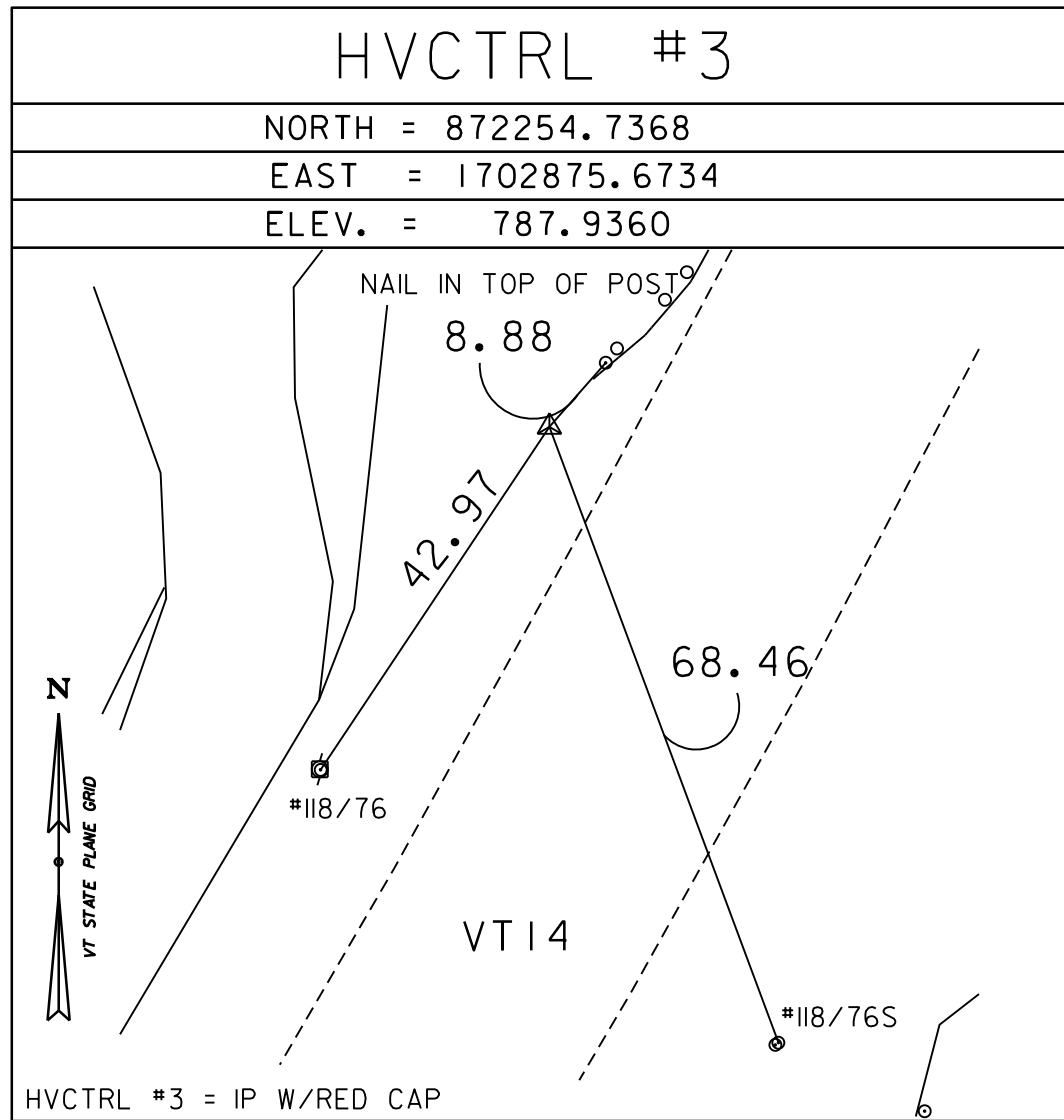
TO REACH FROM THE NORTHERLY INTERSECTION OF ROUTES 5 AND 14 IN COVENTRY, GO NORTH ALONG ROUTE 14 FOR 1.9 MI (3.1 KM) TO THE SITE OF THE MARK ON THE LEFT, ABOUT 15 M (49.2 FT) SOUTHWEST OF SPENCER HILL ROAD.

THE MARK IS A 3/4 INCH (19 MM) REBAR WITH RED CAP SET 4 CM (2 INCHES) BELOW GROUND SURFACE.

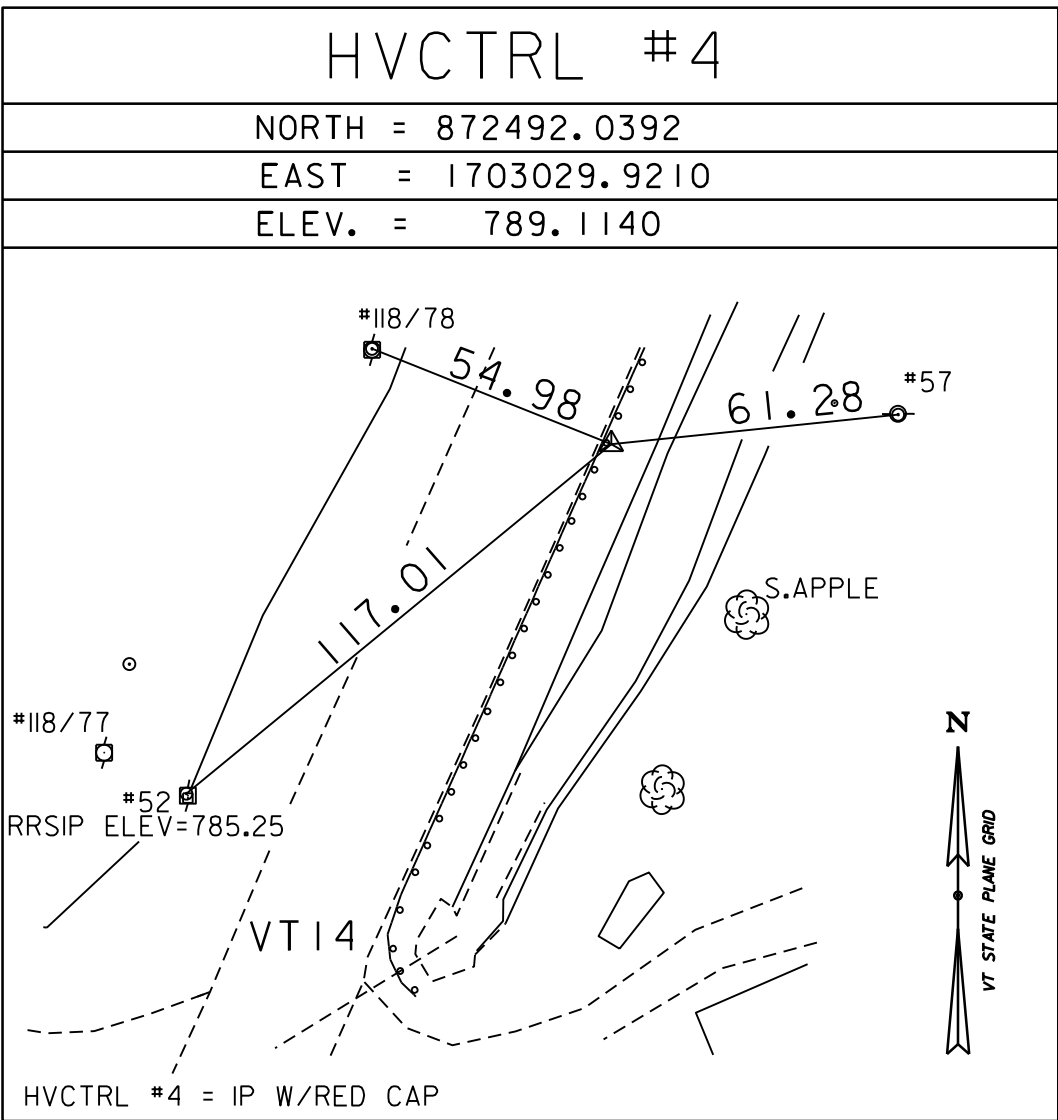
IT IS 8.1 M (26.6 FT) NORTHWEST OF THE CENTERLINE OF ROUTE 14, 21.7 M (71.2 FT) NORTHWEST OF A 20 CM (8 INCHES) SPRUCE AND 31.8 M (104.3 FT) SOUTHWEST OF POLE 118/75.

PT'S 1 AND 2 COORDINATES WERE DERIVED FROM OPUS RS USING THE RAPID EPHEMERIS

SECONDARY CONTROL



*TRAVERSE COMPLETED ON 5/11/2021 BY R.GILMAN H.MCGOWAN



NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

ALIGNMENT TIES

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

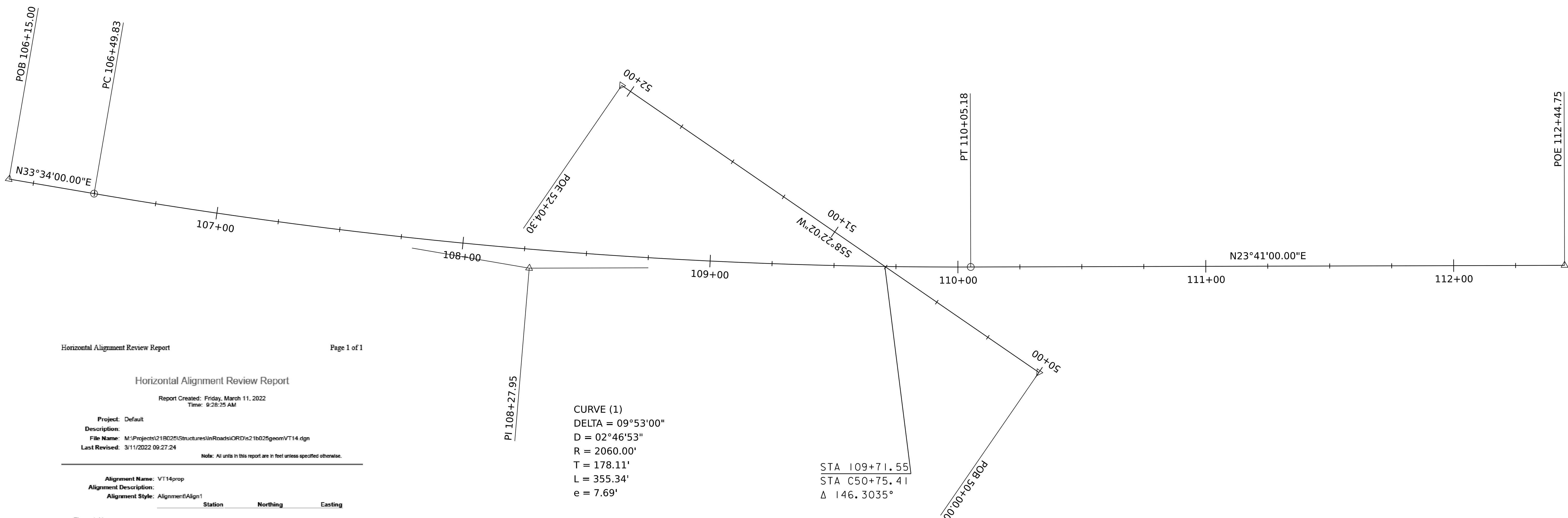
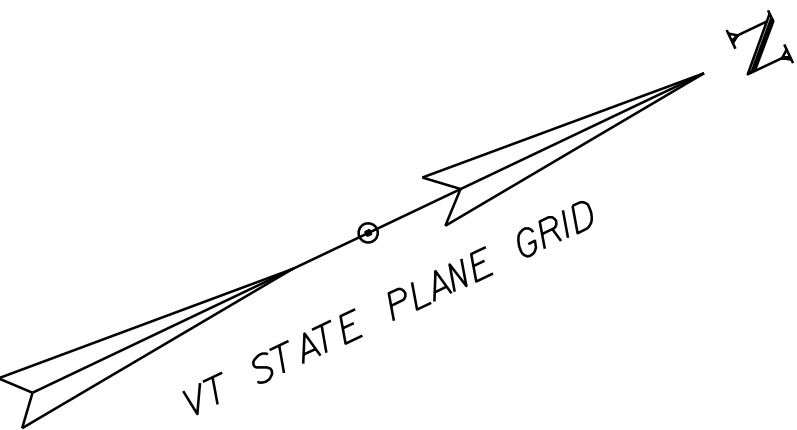
NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

NORTH =
EAST =
ELEV. =

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	COVENTRY
PROJECT NUMBER:	BF 0251(49)
FILE NAME: X21B0251.DGN	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: H.MCGOWAN
DESIGNED BY: VTRANS	CHECKED BY: R. GILMAN
TIE SHEET	SHEET 6 OF 29



Horizontal Alignment Review Report Page 1 of 1

Horizontal Alignment Review Report

Report Created: Friday, March 11, 2022
Time: 9:28:25 AM

Project: Default
Description:
File Name: M:\Projects\21B025\Structures\inRoads\ORD\s21b025geom\VT14.dgn
Last Revised: 3/11/2022 09:27:24

Note: All units in this report are in feet unless specified otherwise.

Alignment Name: VT14prop				
Alignment Description:				
Alignment Style: Alignment\Align1				
		Station	Northing	Easting
Element: Linear				
POB	()	10615.000	872051.310	1702777.881
PC	()	10649.832	872080.334	1702797.140
Tangential Direction:		N33.507°E		
Tangential Length:		34.832		
Element: Circular				
PC	()	10649.832	872080.334	1702797.140
PI	()	10827.940	872228.740	1702896.820
CC	()	11006.178	873216.322	1701080.859
PT	()	11006.178	872301.858	1702987.166
Radius:		2060.000		
Delta:		9.682° Left		
Degree of Curvature (Arc):		2.781°		
Length:		355.343		
Tangent:		178.113		
Chord:		354.903		
Middle Ordinate:		7.857		
External:		7.686		
Back Tangent Direction:		N33.567°E		
Back Radial Direction:		S68.439°E		
Chord Direction:		N28.826°E		
Ahead Radial Direction:		S68.317°E		
Ahead Tangent Direction:		N23.083°E		
Element: Linear				
PT	()	11006.178	872301.858	1702987.166
POE	()	11244.748	872611.254	1703063.397
Tangential Direction:		N23.083°E		
Tangential Length:		239.573		

Horizontal Alignment Review Report Page 1 of 1

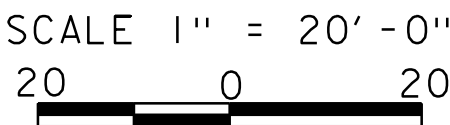
Horizontal Alignment Review Report

Report Created: Monday, May 1, 2023
Time: 3:20:31 PM

Project: Default
Description:
File Name: C:\Users\scoley\Desktop\Coventry\ORD\s21b025geom\channel.dgn
Last Revised: 5/1/2023 15:12:12

Note: All units in this report are in feet unless specified otherwise.

Alignment Name: CL3_				
Alignment Description:				
Alignment Style: Alignment\Align3				
	Station	Northing	Easting	
Element: Linear				
POB	()	5000.000	872306.820	1703017.198
POE	()	5204.303	872292.888	1702943.250
Tangential Direction:		S68.307°W		
Tangential Length:		204.303		



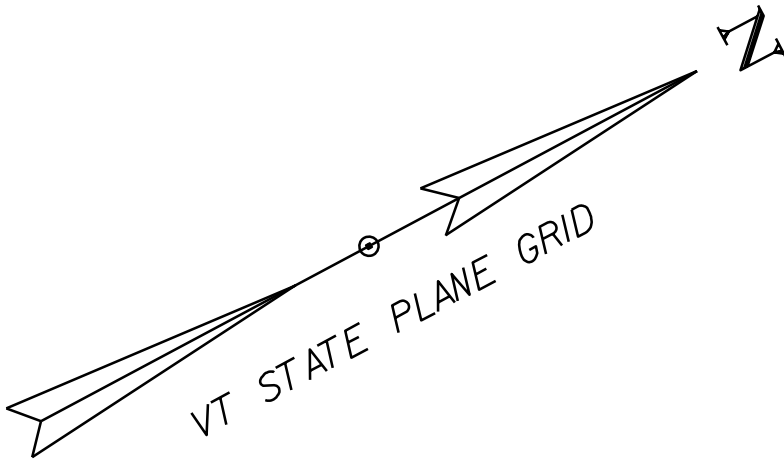
PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

FILE NAME: s21b025bdr.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
ALIGNMENT SHEET

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 7 OF 29

SOIL INFORMATION:
RUMNEY FINE SANDY LOAM
KfactWS = 0.20, 0% TO 3% SLOPES
HYDROLOGICAL SOIL GROUP: B/D

SOIL INFORMATION:
COLTON-DUXBURY COMPLEX
25% TO 60% SLOPES
HYDROLOGICAL SOIL GROUP: A



N/F
PIKE INDUSTRIES, INC.

N/F
BLAKE, APRIL M.

N/F
DROWN, CHARLES W. SR.

N/F
SANVILLE, ISRAEL B. & DENISE S.

N/F
DROWN, CHARLES W. SR.

SOIL INFORMATION:
ADAMS LOAMY SAND
KfactWS = 0.15, 15% TO 25% SLOPES
HYDROLOGICAL SOIL GROUP: A

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

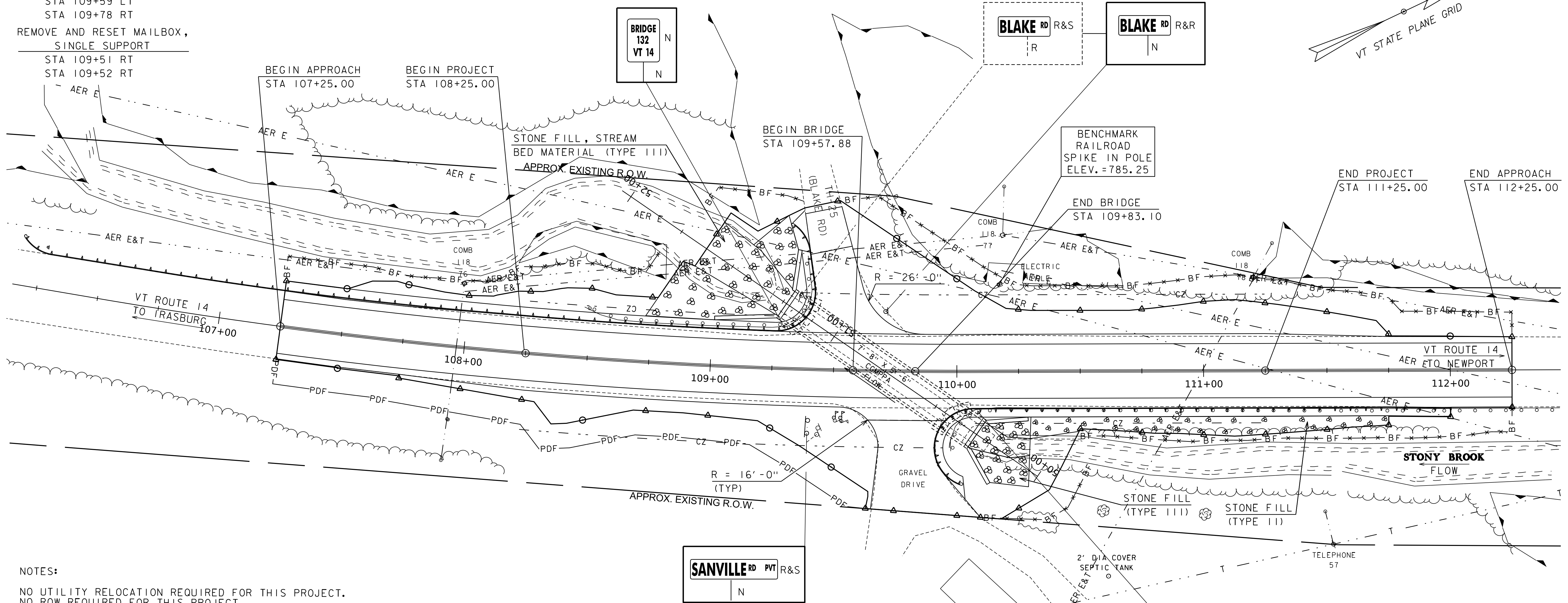
PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

FILE NAME: 21b025ero.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
EXISTING CONDITIONS

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 8 OF 29

CONSTRUCT 5' PAVED APRON
STA 109+78 RT
CONSTRUCT PAVED DRIVE
STA 109+59 LT
STA 109+78 RT
CONSTRUCT GRAVEL DRIVE
STA 109+59 LT
STA 109+78 RT
REMOVE AND RESET MAILBOX,
SINGLE SUPPORT
STA 109+51 RT
STA 109+52 RT

4" YELLOW LINE, WATERBORNE (DOUBLE)
STA 107+25 - 112+25
4" WHITE LINE, WATERBORNE
STA 107+25 - 112+25 LT AND RT



NOTES:
NO UTILITY RELOCATION REQUIRED FOR THIS PROJECT.
NO ROW REQUIRED FOR THIS PROJECT.

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS		NEW SIGN "A"	EXIST POST RE TAIN ER	S A L V A G E	NO. OF P O S T S	NEW SIGN POSTS					REMARKS	SIGN DETAIL	
								SQUARE STEEL (in)			A N C H O R	S L E E V E		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
		WIDTH (in)	HEIGHT (in)					1.75	2.0	2.5					
								1.88	2.42	3.35					
109+29 LT	BRIDGE 132 VT 14	6	10	0.42			1	10					VD-701		T-42
110+09 RT	BRIDGE 132 VT 14	6	10	0.42			1	10					VD-701		T-42
109+71 LT	BLAKE RD						1	15					D3-1		
109+40 RT	SANVILLE RD PVT						2	30					D3-1		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."								FT 65	FT	FT		EA	SHS = STANDARD HIGHWAY SIGNS (MUTCD)		
				TOTALS	SF 0.84		FT 35								

SIGN LEGEND

N = NEW
R = REMOVE
R&S = REMOVE & SALVAGE
R&R = REMOVE & RESET

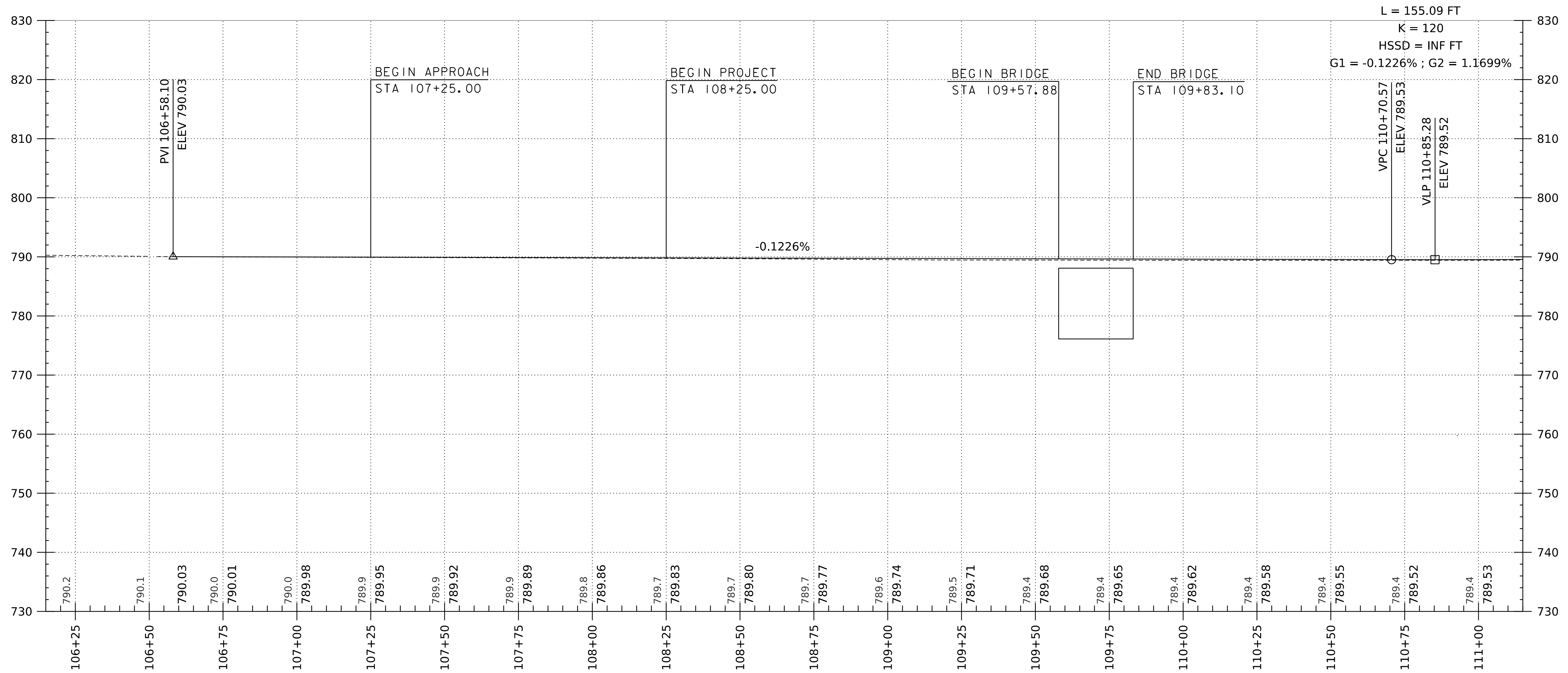
SCALE 1" = 20' -0"
20 0 20

EXISTING BRIDGE INFORMATION
7'-8" X 5'-6" X 108' CGMPA
BUILT 1959
24 SF WATERWAY AREA
4' AVERAGE COVER

PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

FILE NAME: s2b025bdr.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
LAYOUT SHEET

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 9 OF 29

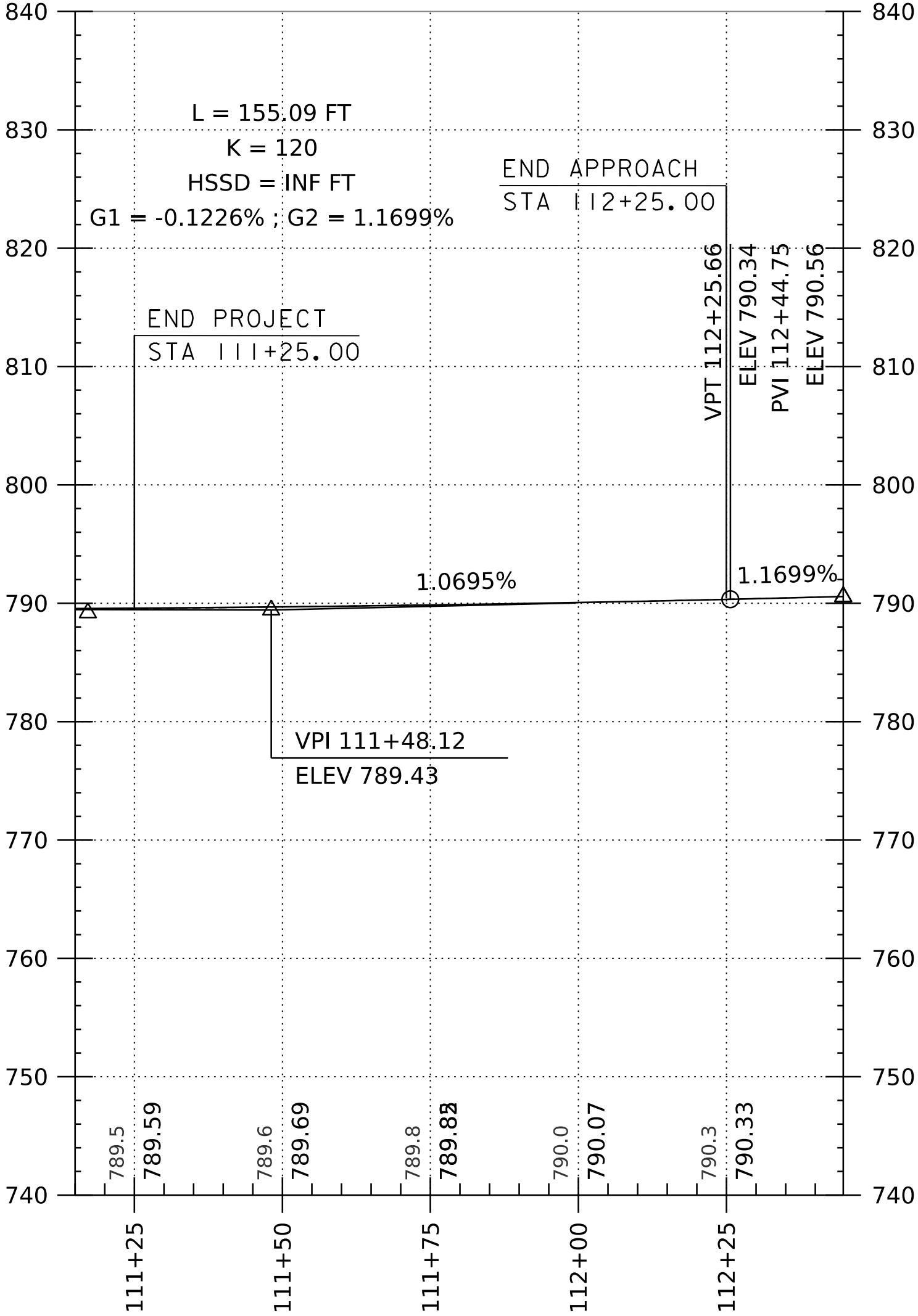


HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 025I(49)

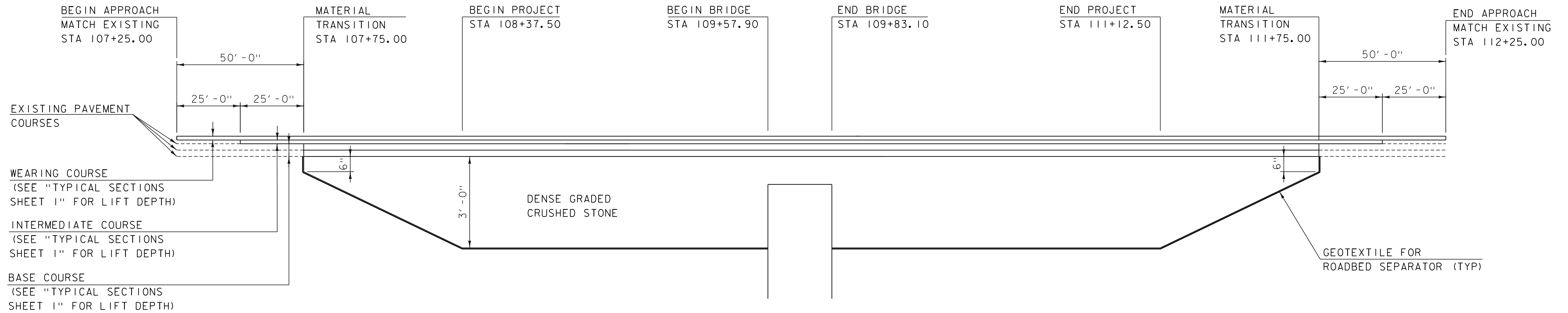
FILE NAME: s2lb025pro.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
VT I4 PROFILE SHEET I

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 10 OF 29

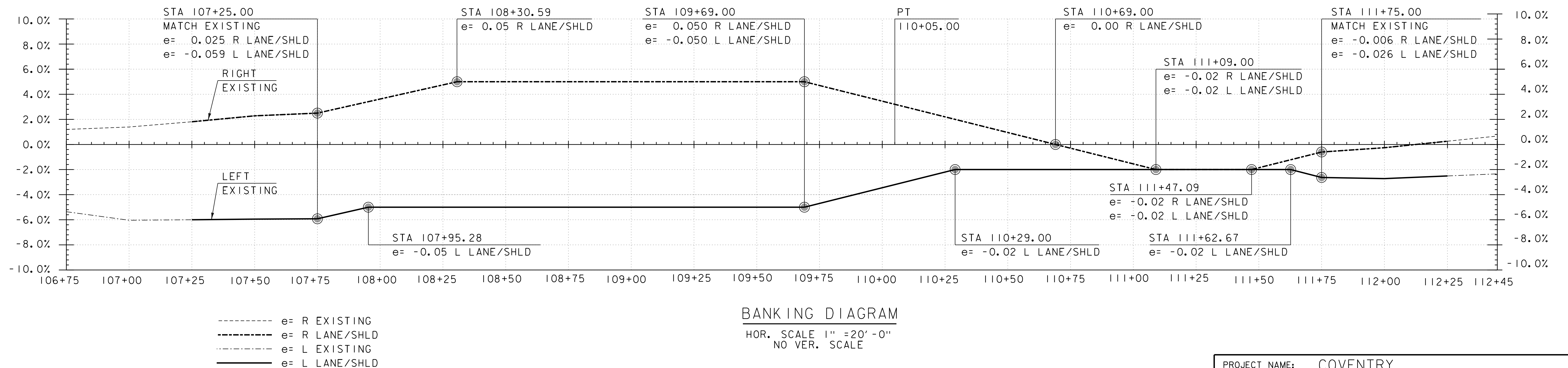


HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 10'-0"

PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 0251(49)	
FILE NAME: s2lb025pro.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
VT 14 PROFILE SHEET 2	SHEET 11 OF 29

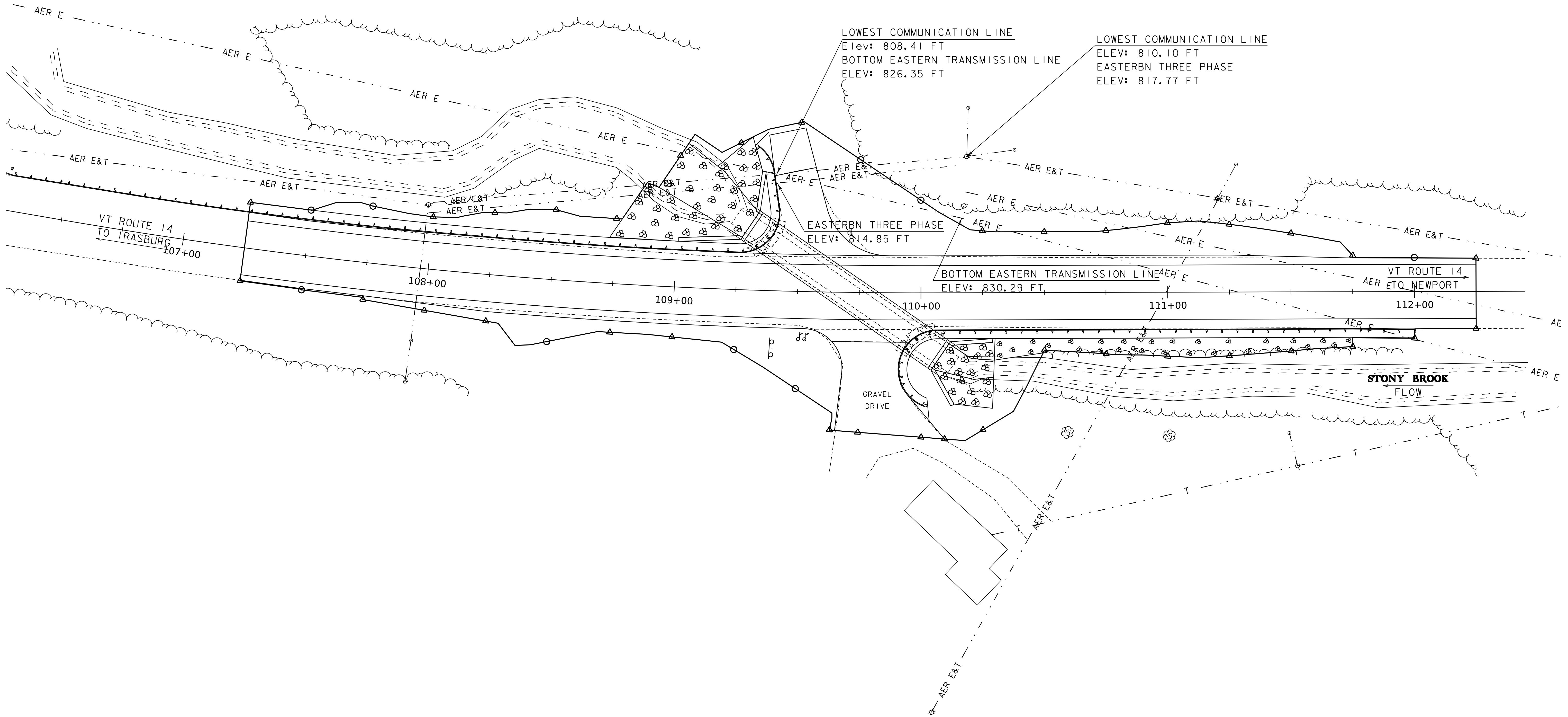
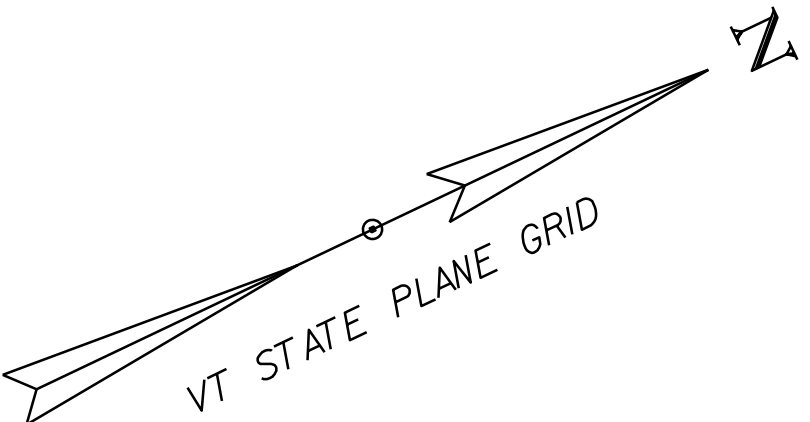


MATERIAL TRANSITION
NOT TO SCALE



PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 025I(49)	
FILE NAME: s2lb025superelevation.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
MATERIAL TRANSITION & BANKING DIAGRAM	SHEET 12 OF 29

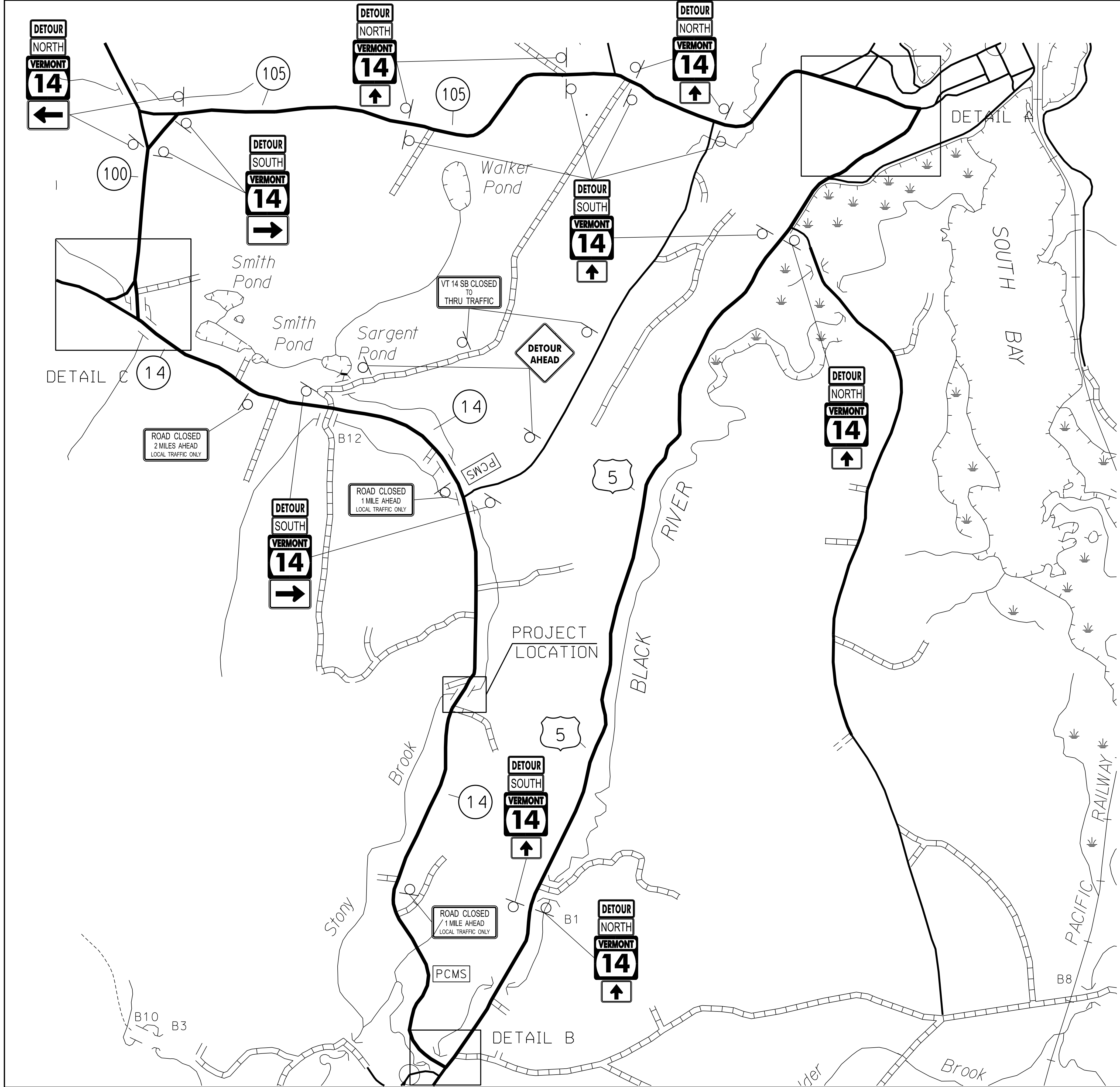
UTILITY ELEVATIONS WERE SURVEYED ON 05/25/2023.



SCALE 1" = 20'-0"

20 0 20

PROJECT NAME:	COVENTRY	PLOT DATE:	26-JUN-2023
PROJECT NUMBER:	BF 0251(49)	DRAWN BY:	S. COLEY
FILE NAME:	s2b025bdr_util.dgn	CHECKED BY:	R. KLINEFELTER
PROJECT LEADER:	R. KLINEFELTER	SHEET \$\$\$ OF \$T#\$	
DESIGNED BY:	S. COLEY		
UTILITY LAYOUT SHEET			



PCMS
MESSAGES FOR PORTABLE
CHANGEABLE
MESSAGE SIGNS (PCMS)

MESSAGE 1	MESSAGE 2
VT 14	**DATE**
ROAD	THRU
CLOSED	**DATE**

SEE CONTRACT DOCUMENTS FOR
CLOSURE DATES.
LOCATIONS ARE ON THIS SHEET
AND REGIONAL DETOUR DETAILS
SHEET.

VT 14 ROAD CLOSED IN
COVENTRY, TRUCKS USE
VT 58 TO VT 100

PLACE AT INTERSECTIONS OF US
5/VT 58, VT 14/VT 58, VT
101/VT 100

VT 14 ROAD CLOSED IN
COVENTRY, TRUCKS USE
VT 100 TO VT 58

PLACE AT INTERSECTIONS OF VT
101/VT 100, VT 100/VT 105

DETOUR ROUTE SIGNS



DETOUR
SOUTH



DETOUR
NORTH

N

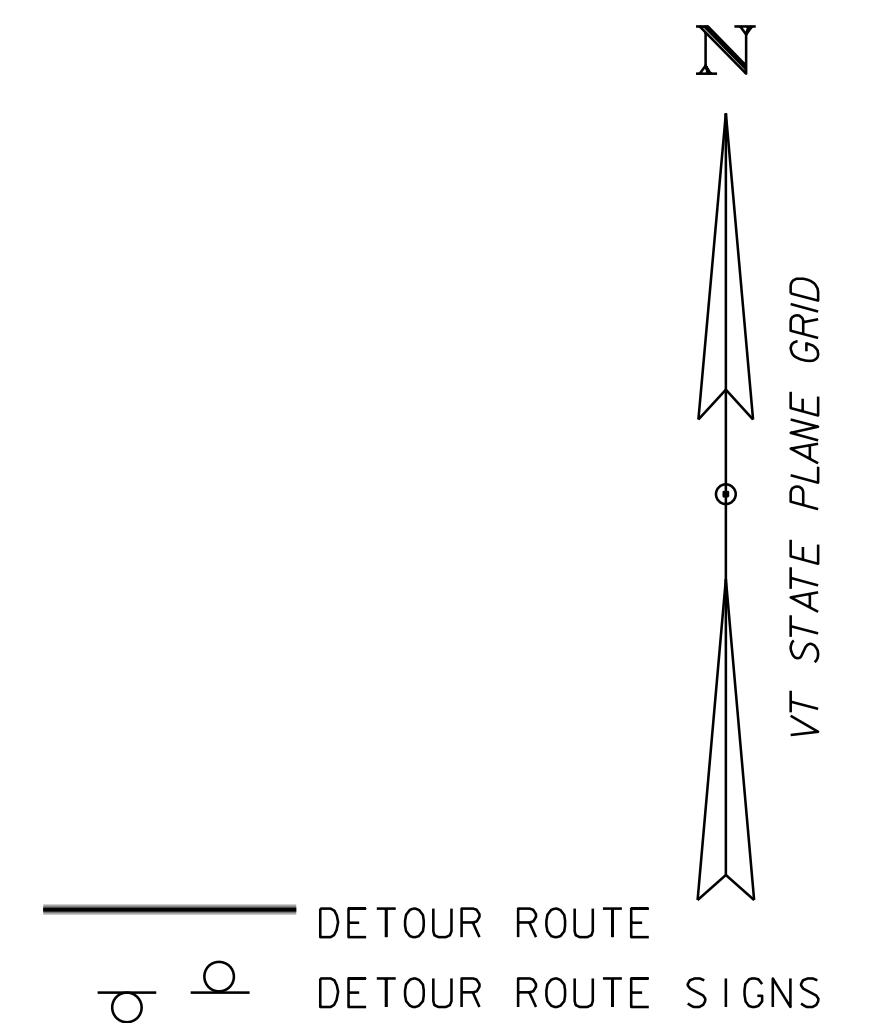
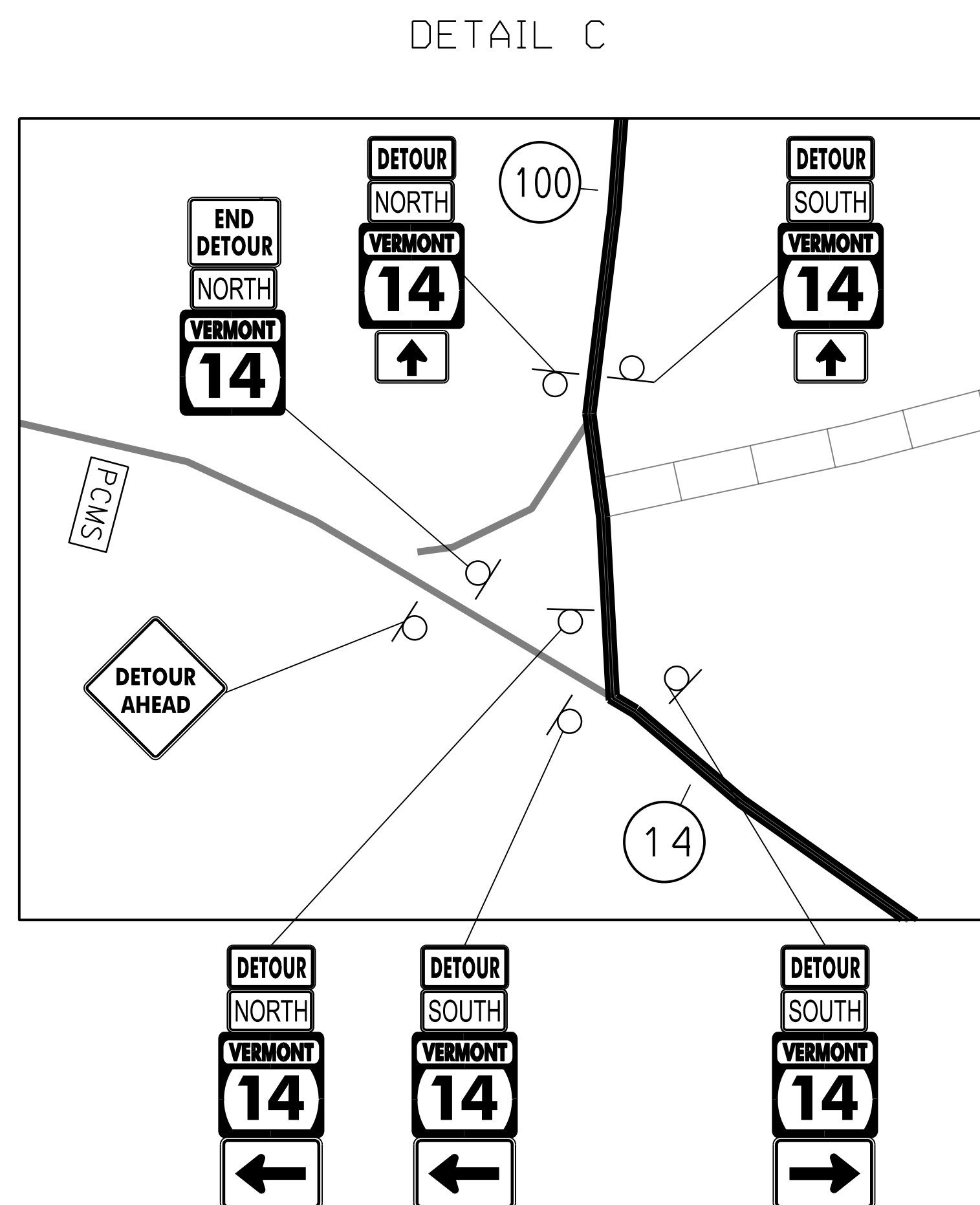
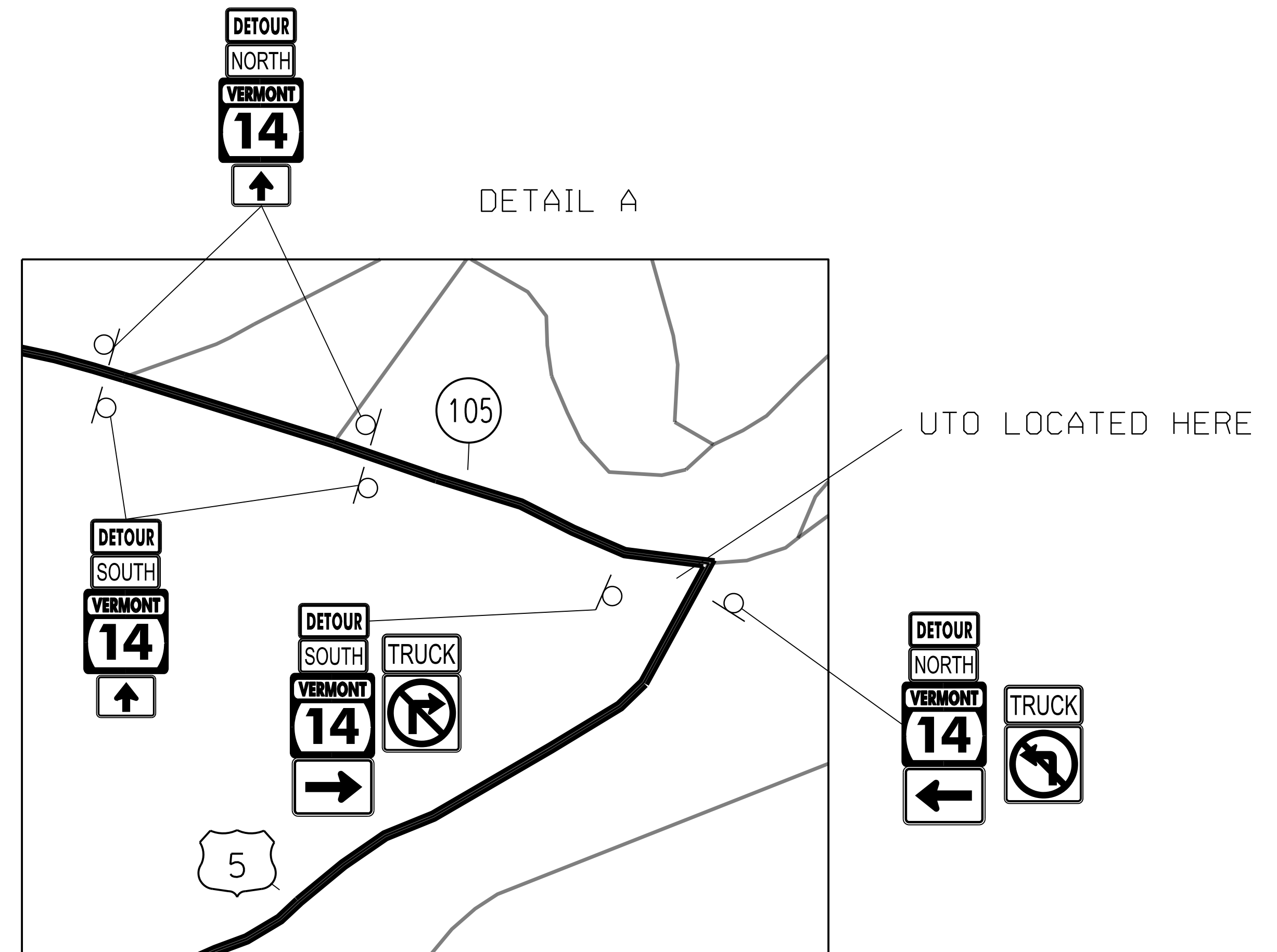
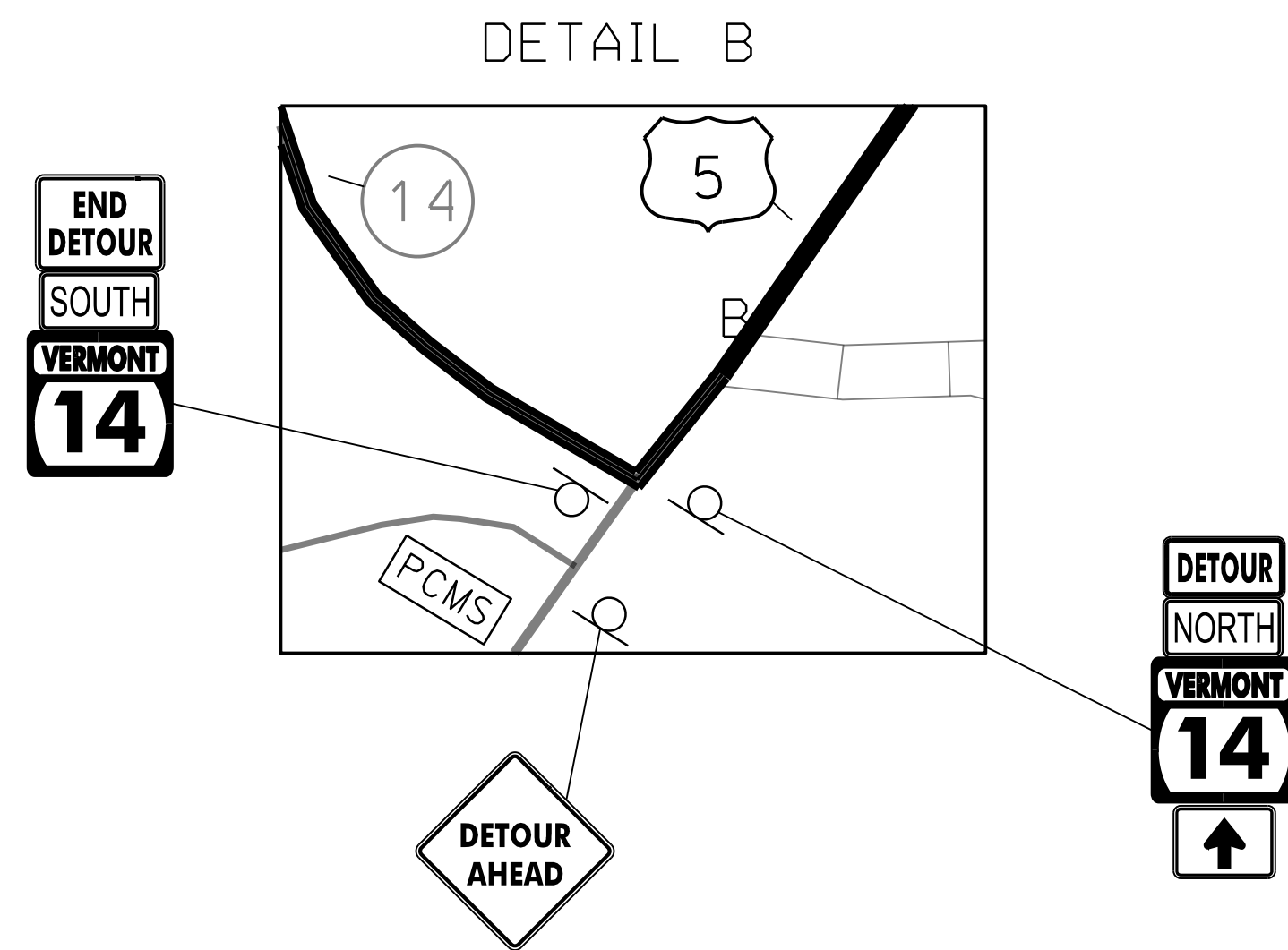
VT STATE PLANE GRID

DETOUR ROUTE
DETOUR ROUTE SIGNS

PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 025I(49)

FILE NAME: s2ib025detour.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
REGIONAL DETOUR

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 14 OF 29



PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 0251(49)	
FILE NAME: s21b025detour.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
REGIONAL DETOUR DETAILS	SHEET 15 OF 29

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

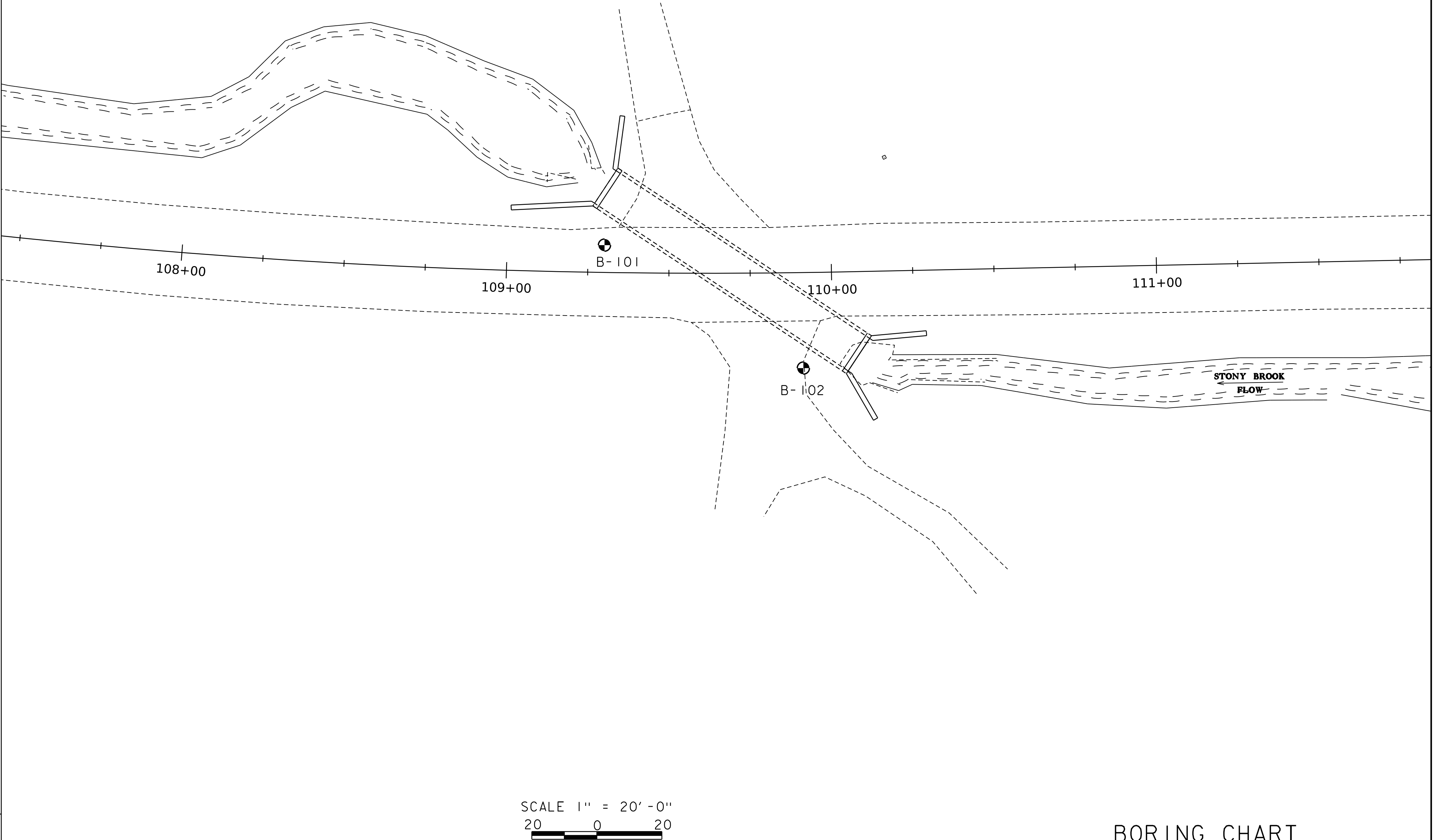
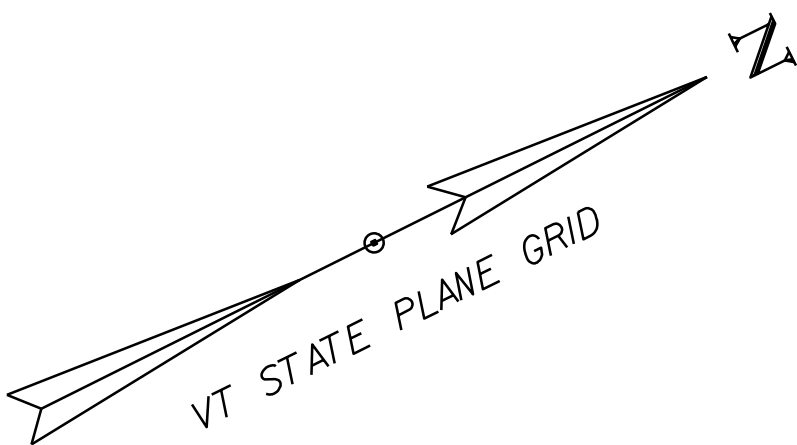
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

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
RQD	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
gr'y	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



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

BORING CHART

HOLE NO.	SURV. STATION	OFFSET	NORTHING	EASTING
B-101	109+30.05	8.42' LT	1702928.16	872327.29
B-102	109+90.95	29.39' RT	1702988.24	872366.86

PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

FILE NAME: s21b025bor.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
BORING INFORMATION SHEET

PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 16 OF 29

GENERAL NOTES

- The subsurface explorations shown herein were made between 6/14/2021 and 6/15/2021 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.

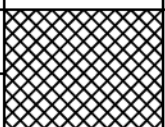
MUCK - Soft organic soil (containing > 10% organic material).

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

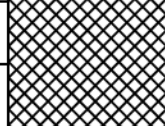
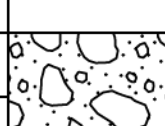
FLOWING SAND - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

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

DIP - Inclination of bed with a horizontal plane.

 STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-101						
		Coventry BF 0251(49) VT 14 Bridge No. 132		Page No.: 1 of 1 Pin No.: 21b025 Checked By: AJA						
Boring Crew: Judkins, Arles, Emerson, Brochu		Casing Sampler Type: WASH BORE SS		Groundwater Observations						
Date Started: 6/14/21 Date Finished: 6/14/21		I.D.: 4 in 1.5 in		Date	Depth (ft)	Notes				
VTSPG NAD83: N 872327.29 ft E 1702928.16 ft		Hammer Wt: N.A. 140 lb.		06/14/21	5.1	WT After Drilling				
Station: 109+26 Offset: 8.4 LT		Hammer Fall: N.A. 30 in.								
Ground Elevation: 788.7 ft		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK C _E = 1.52								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)				Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Field Note, Asphalt 0.0'-0.2'				12-10-16 (22)	8.6	46.9	39.2	13.9
		Visual Description:, SaGr, brn, Moist, Rec. = 0.5 ft, Field Note: NXDC Cleanout 1.3'-2.0'. Rock in end of sampler				20-15-18-12 (33)				
		Visual Description:, SaGr, brn, Moist, Rec. = 0.6 ft, Field Note: NXDC Cleanout 3.0'-4.0'. Rock in end of sampler				11-10-16-12 (26)				
		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft, Field Note: NXDC Cleanout 5.1'-6.0'				8-9-8-12 (17)				
10		Visual Description:, SaGr, brn, Moist, Rec. = 0.6 ft, Field Note: NXDC Cleanout 7.2'-8.0'				21-10-17-19 (27)	10.3	53.2	43.6	3.2
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, Field Note: NXDC Cleanout 9.1'-10.0'				28-30-27-R@5" (57)				
		Visual Description:, Gr, brn, Moist, Rec. = 0.4 ft, Field Note: Refusal @ 11.9' 100 blows. NXDC Cleanout 10.9'-12.0'. Rock in end of sampler				30-31-28-R@1" (59)				
		A-1-b, GrSa, brn, Moist, Rec. = 0.8 ft, Field Note: Refusal @ 13.6' 100 blows. NXDC Cleanout 12.9'-14.0'				18-26-5-13 (31)				
15		A-1-a, SaGr, brn, Moist, Rec. = 0.8 ft, Field Note: NXDC Cleanout 18.9'-20.0'				14-16-16-18 (32)	9.3	48.8	41.2	10.0
20		Field Note, No Recovery, NXDC Cleanout 4.2'-25.0'								
25		A-1-b, SaGr, brn, Moist, Rec. = 0.8 ft								
		Hole stopped @ 27.0 ft								
30		Remarks: Hole Collapsed @ 5.8'.								
Notes:		1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _E is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.								

BORING LOG COVENTRY BF 0251(49) GPJ VERMONT AOT GDT 9/13/21

 STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: B-102						
		Coventry BF 0251(49) VT 14 Bridge No. 132		Page No.: 1 of 1 Pin No.: 21b025 Checked By: AJA						
Boring Crew: Judkins, Arles, Emerson		Casing Sampler Type: WASH BORE SS		Groundwater Observations						
Date Started: 6/15/21 Date Finished: 6/15/21		I.D.: 4 in 1.5 in		Date	Depth (ft)	Notes				
VTSPG NAD83: N 872366.86 ft E 1702988.24 ft		Hammer Wt: N.A. 140 lb.		06/15/21	7.3	WT After Drilling				
Station: 109+87 Offset: 29.2 RT		Hammer Fall: N.A. 30 in.								
Ground Elevation: 789.05 ft		Hammer/Rod Type: Auto/AWJ								
		Rig: CME 55 TRACK C _E = 1.52								
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)				Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Visual Description:, Sa, brn, Dry, Rec. = 0.7 ft				4-7-8-9 (15)	9.3	44.7	40.9	14.4
		Visual Description:, GrSa, brn, Dry, Rec. = 0.8 ft, Field Note: NXDC Cleanout 2.8'-4.0'				14-14-8-7 (22)				
		A-1-b, SaGr, brn, Moist, Rec. = 0.6 ft, Field Note: NXDC Cleanout 5.0'-6.0'				8-10-15-19 (25)				
		Field Note, No Recovery, NXDC Cleanout 7.0'-8.0'. Rock in end of sampler				14-12-15-18 (27)				
10		Field Note, No Recovery, Refusal @ 8.4'. NXDC Cleanout 8.4'-10.0'. Cobbles and Boulders 8.4'-10.0'. Rock in end of sampler				R@5" (R)	13.0	40.5	53.4	6.1
		Visual Description:, SaGr, brn, Moist, Rec. = 0.3 ft, Field Note: Refusal @ 10.4' 100 blows no movement. NXDC Cleanout 10.3'-12.0'. Rock in end of sampler				R@5" (R)				
		A-1-b, GrSa, brn, Moist, Rec. = 0.6 ft, Field Note: NXDC Cleanout 13.0'-14.0'				24-13-7-8 (20)				
		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft, Field Note: NXDC Cleanout 19.1'-20.0'				8-12-15-12 (27)				
15							10.1	49.0	40.4	10.6
20		A-1-b, SaGr, brn, Moist, Rec. = 0.9 ft, Field Note: NXDC Cleanout 23.7'-25.0'				9-14-13-19 (27)	9.6	49.1	41.0	9.9
25		A-1-b, SaGr, brn, Moist, Rec. = 0.5 ft				23-24-20-20 (44)				
		Hole stopped @ 27.0 ft								
30		Remarks: Hole Collapsed @ 7.2'								
Notes:		1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. C _E is the hammer energy correction factor. 3. Water level readings have been made at times and under conditions stated. Fluctuations may occur due to other factors than those present at the time measurements were made.								

BORING LOG COVENTRY BF 0251(49) GPJ VERMONT AOT GDT 9/13/21

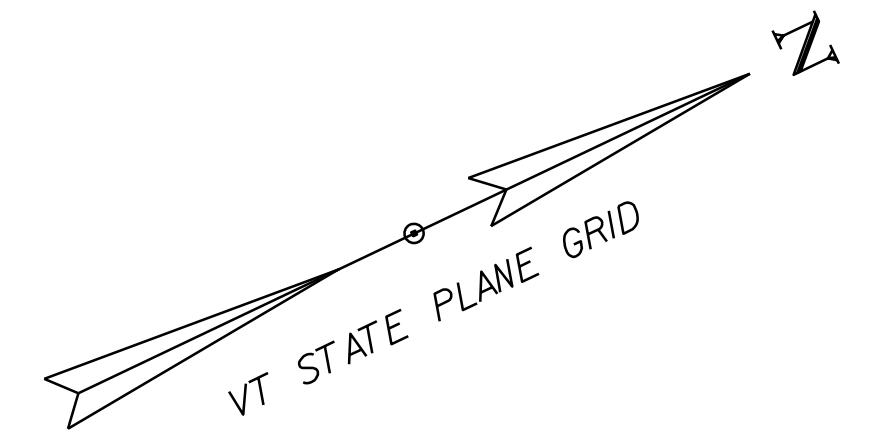
STA 108+47.5 TO 109+40.4 LT
STA 109+97.5 TO 112+00.0 RT

STA 106+16.6	TO 109+42.0	LT
STA 109+90.9	TO 112+00.0	RT

STA	106+24.0	LT
STA	109+37.0	LT
STA	109+96.0	RT

STA 109+33.5	LT
STA 109+38.3	LT
STA 109+41.3	LT
STA 109+93.3	RT
STA 109+97.6	RT
STA 110+03.3	RT

STA 106+26.8	LT	(GREEN)
STA 109+29.3	LT	(BLUE)
STA 110+08.9	RT	(GREEN)



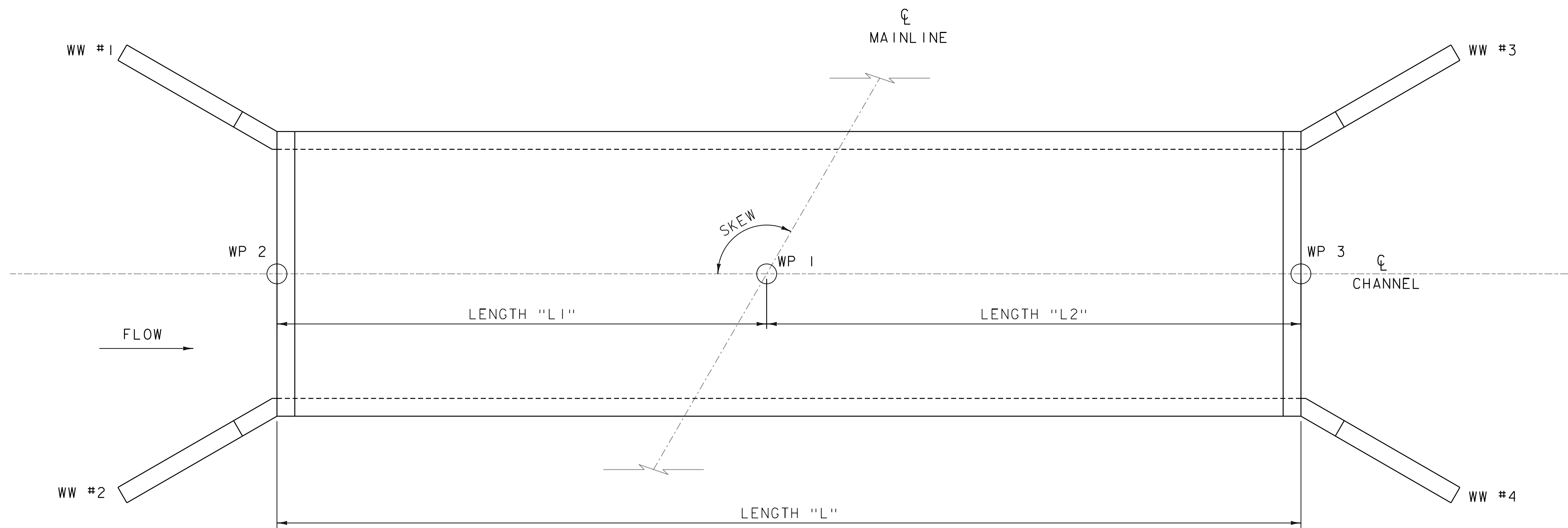
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FILE NAME: s21b025bdr_rail.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
RAIL LAYOUT SHEET

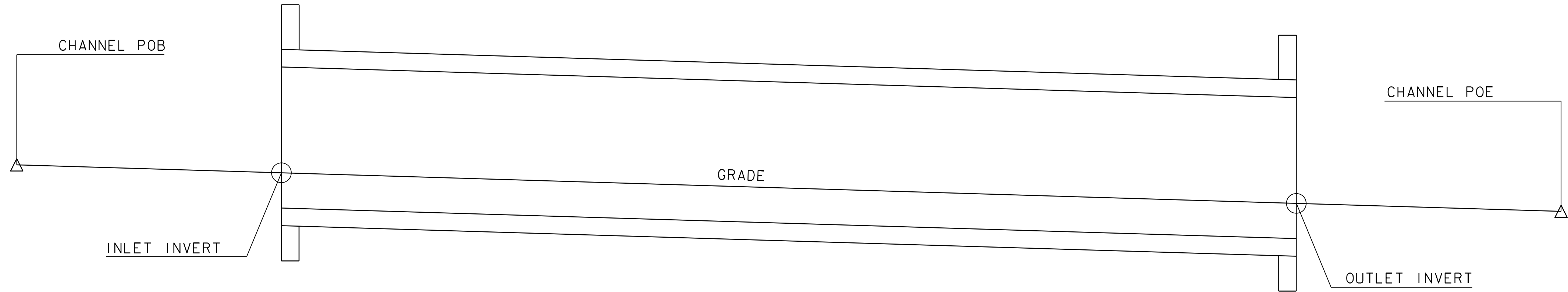
PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 18 OF 29



- PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 19 OF 29



CULVERT PLAN VIEW
NOT TO SCALE



CULVERT ELEVATION VIEW
NOT TO SCALE

DESIGN INFORMATION

CULVERT SKEW	146.3°
LENGTH "L"	93' - 6"
LENGTH "L1"	45' - 5"
LENGTH "L2"	48' - 1"

WORKING POINTS

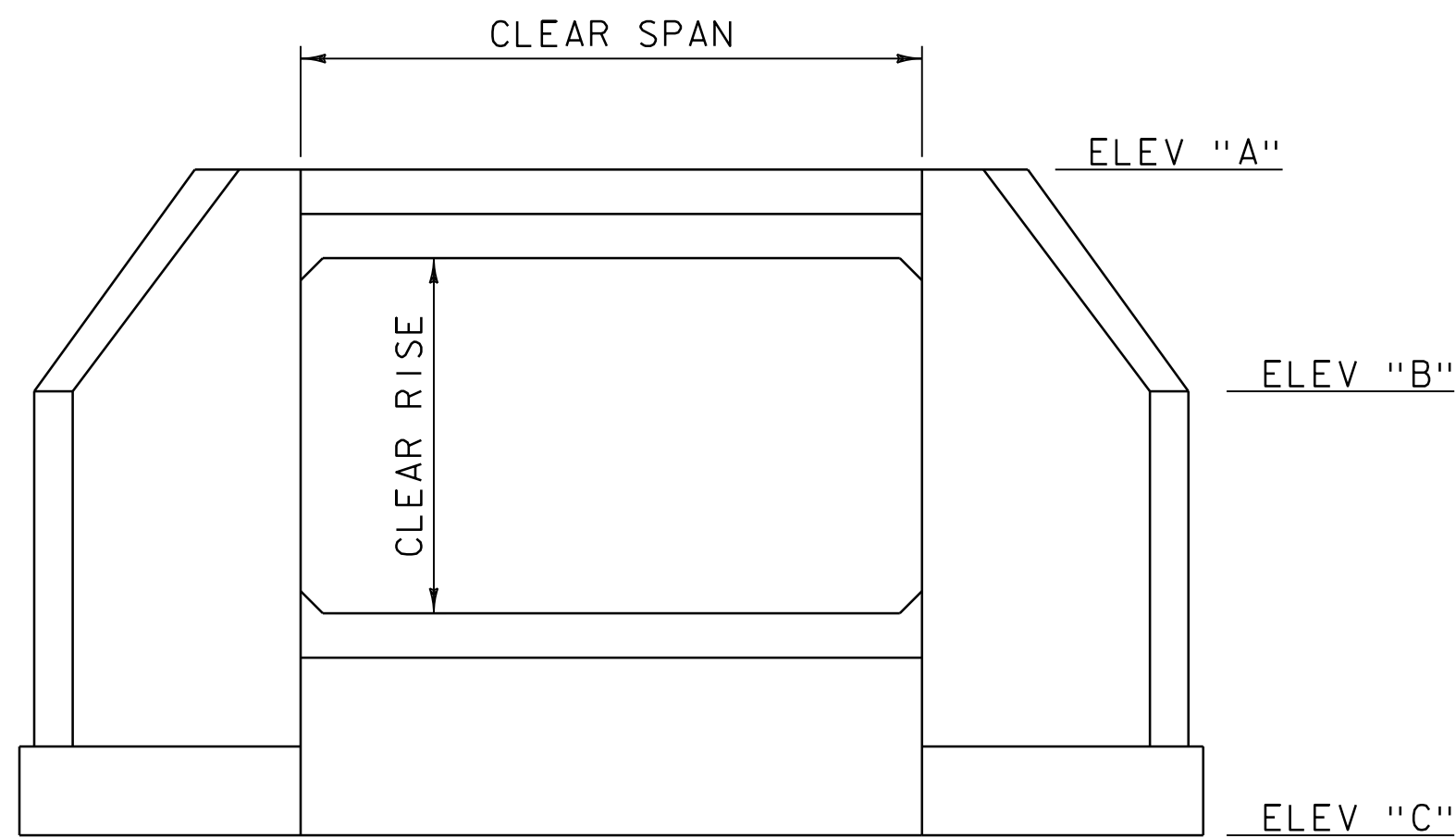
	NORTHING	EASTING	STATION	OFFSET
WP 1	872384.10	1702991.69	110+07.93	25.57' RT
WP 2	872360.27	1702952.99	109+70.55	0.00'
WP 3	872335.05	1702912.06	109+30.04	26.30' LT

CHANNEL ALIGNMENT

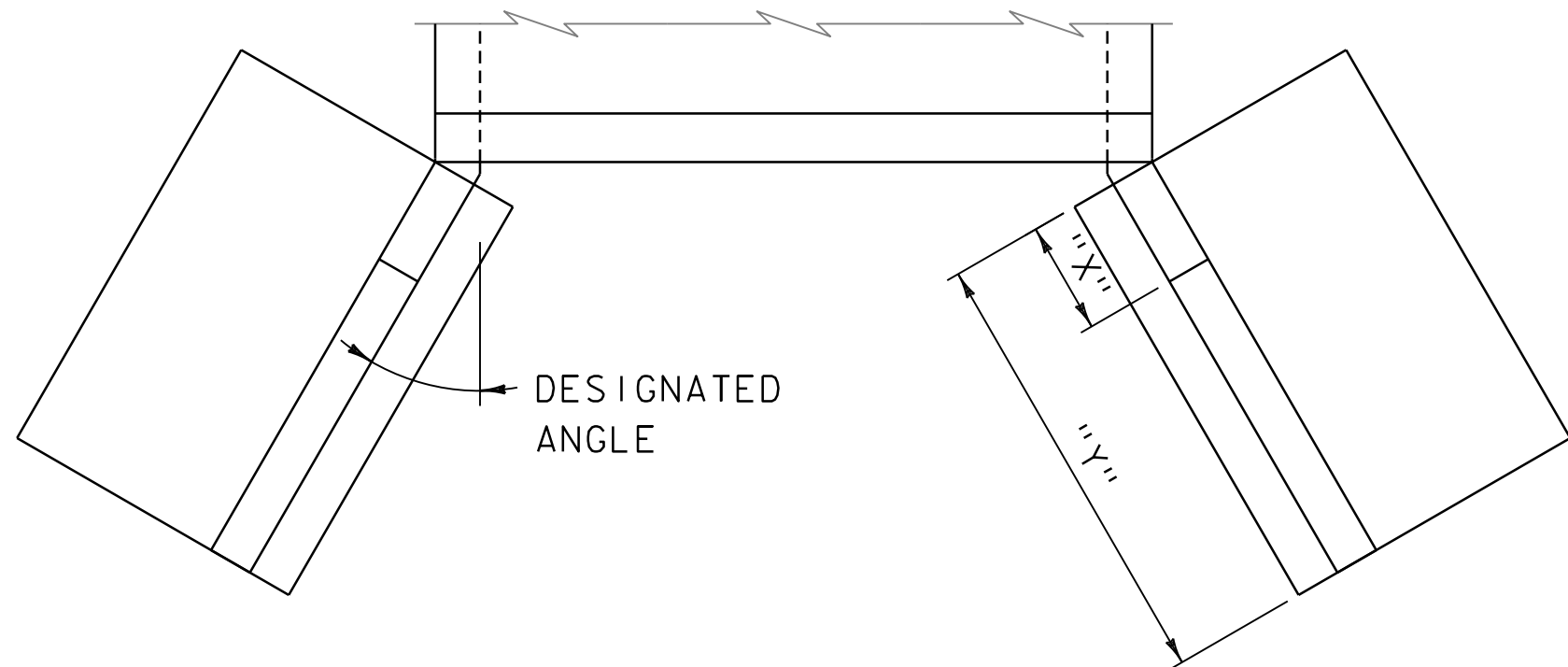
	STATION	ELEVATION
CHANNEL POB	50+13.30	781.75
INLET INVERT	50+29.96	781.42
OUTLET INVERT	51+23.49	779.55
CHANNEL POE	51+64.30	778.73
GRADE	-0.020	

- NOTES:
1. PLAN AND ELEVATION VIEWS ARE SCHEMATIC DRAWINGS USED TO REFERENCE INFORMATION PROVIDED IN THE TABLES. THESE VIEWS DO NOT DEPICT THE ACTUAL LAYOUT OF THE STRUCTURE.
 2. SEE THE BOX CULVERT END DETAILS SHEET FOR MORE INFORMATION.

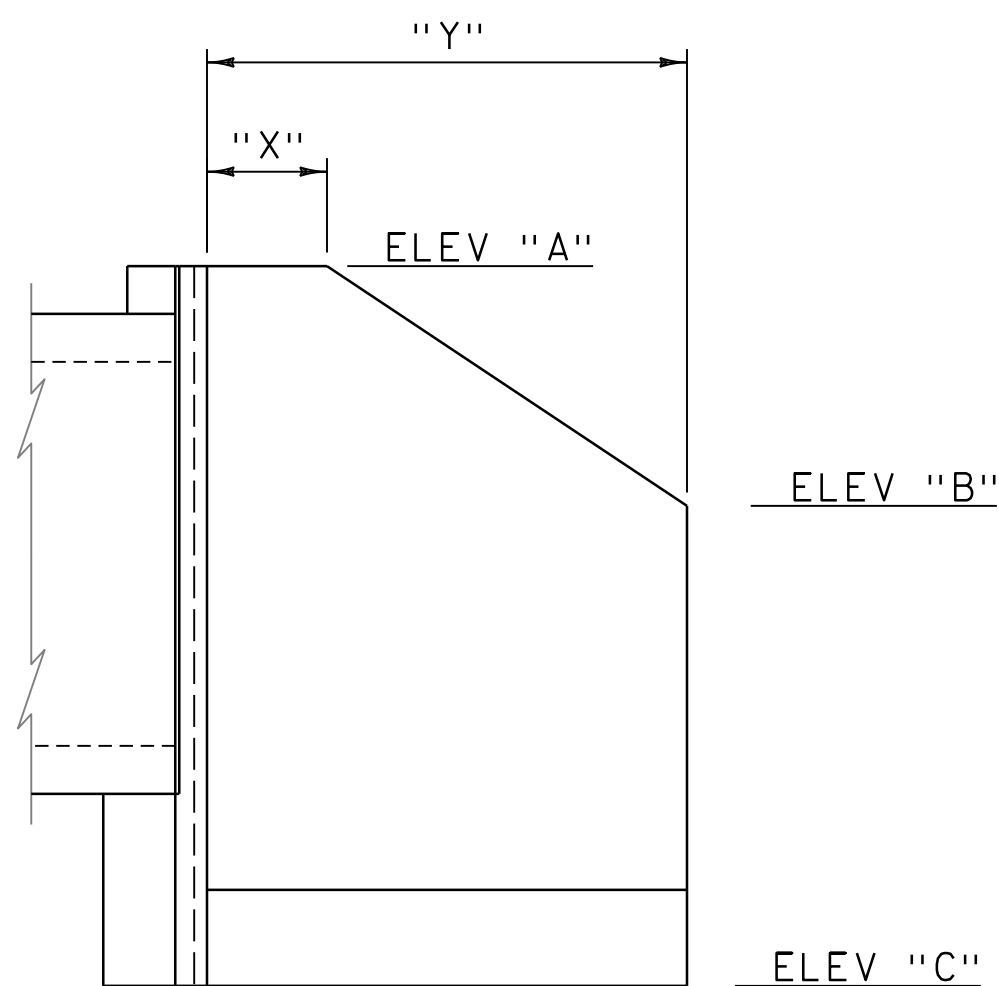
PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 0251(49)	
FILE NAME: s21b005culvert.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
BOX CULVERT PLAN AND ELEVATION	SHEET 20 OF 29



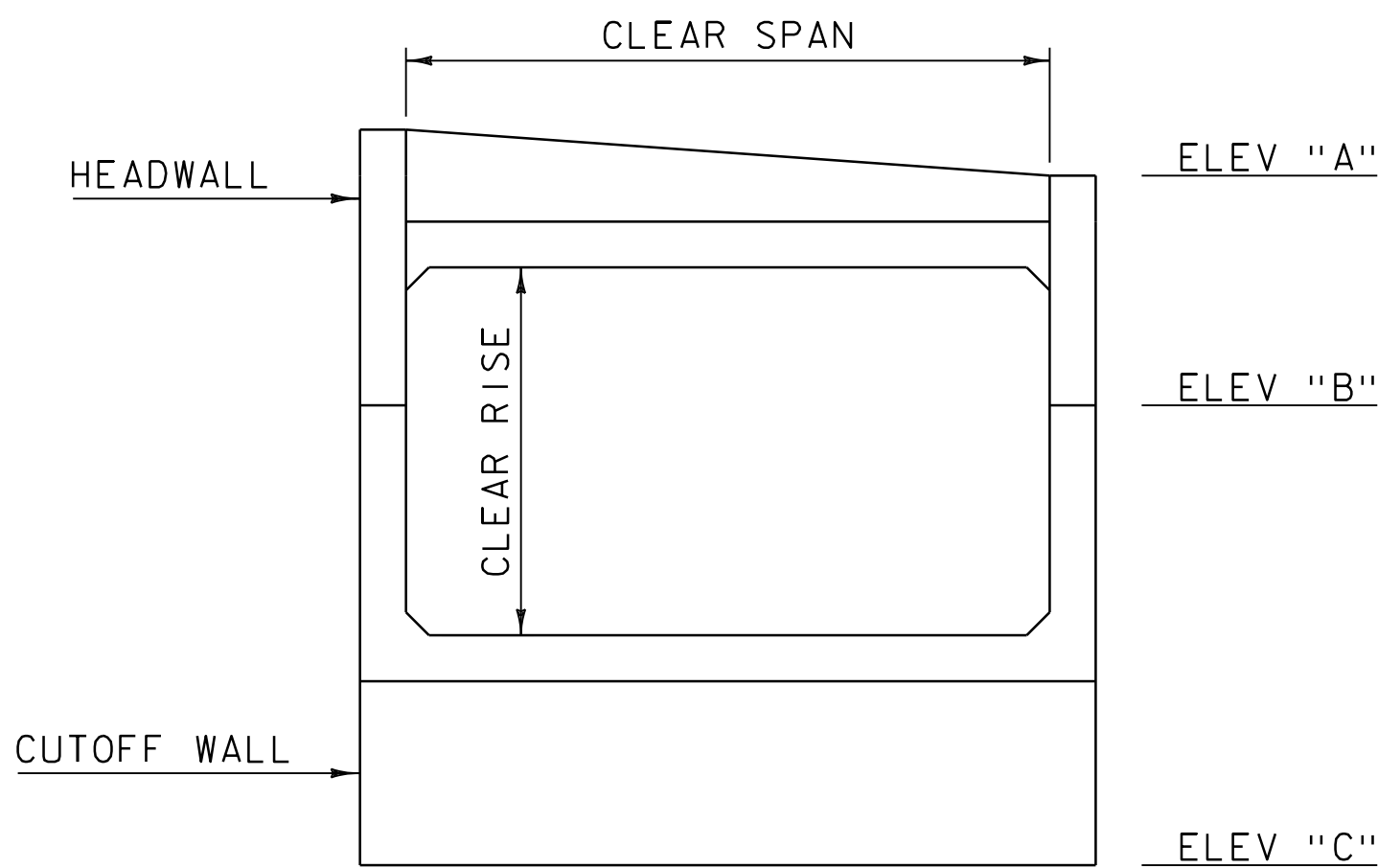
FLARED END SECTION
NOT TO SCALE



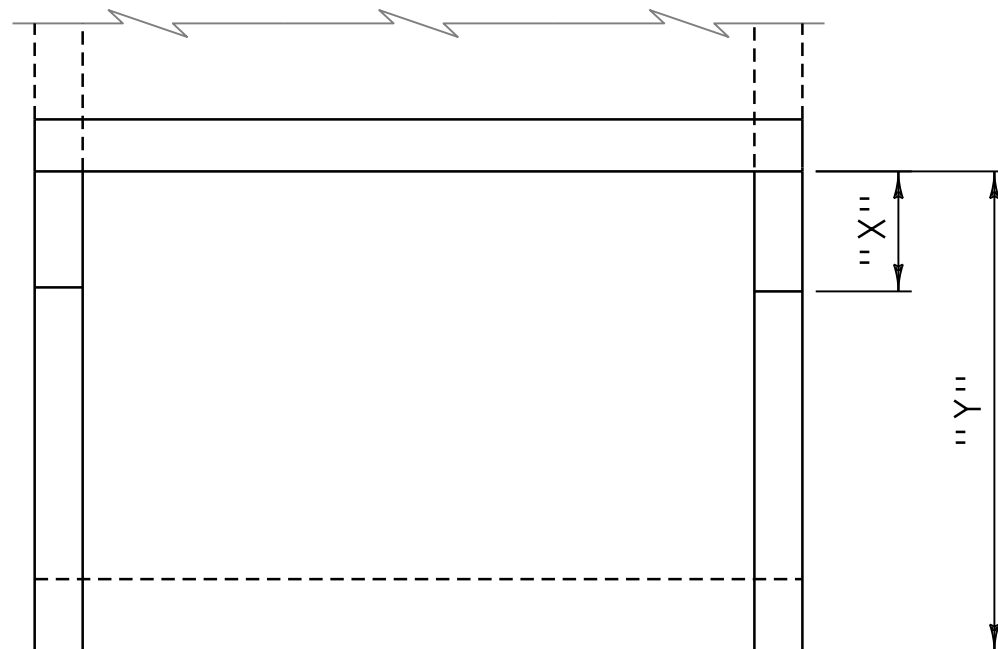
FLARED END PLAN
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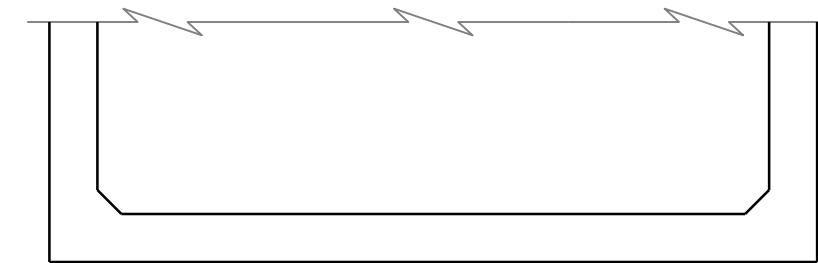
FLARED END ELEVATION
NOT TO SCALE



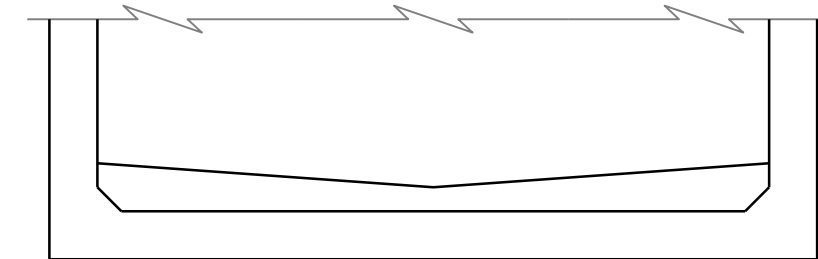
STRAIGHT END SECTION
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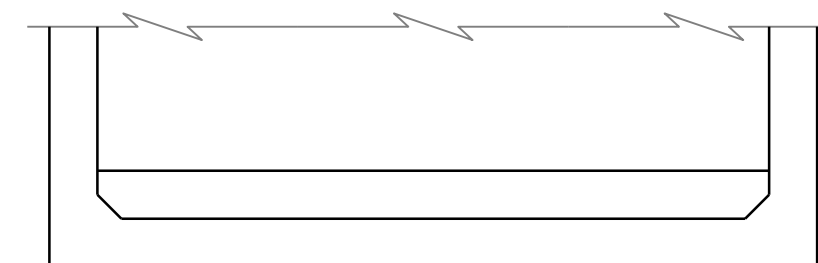
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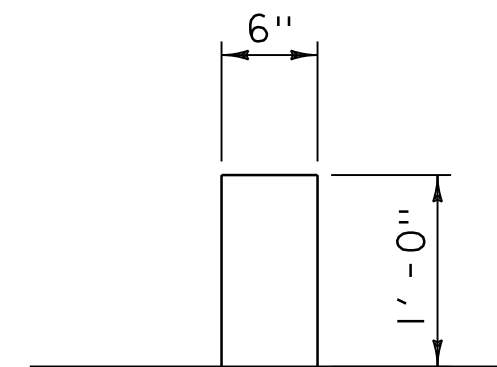
BOTTOM TYPE "A" - FLAT
NOT TO SCALE



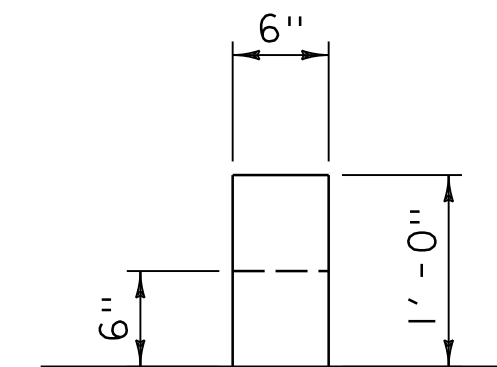
BOTTOM TYPE "B" - LOW FLOW BAFFLE
NOT TO SCALE



BOTTOM TYPE "C" - STANDARD BAFFLE
NOT TO SCALE



STANDARD BAFFLE
NOT TO SCALE



LOW FLOW BAFFLE
NOT TO SCALE

DESIGN INFORMATION

CLEAR SPAN	12' - 0"
CLEAR RISE	8' - 0"
END TYPE (INLET)	FLARED
END TYPE (OUTLET)	FLARED
BOTTOM TYPE	TYPE "C"

WINGWALL INFORMATION

LOCATION	ANGLE	ELEV "A"	ELEV "B"	ELEV "C"	DIM "X"	DIM "Y"
WW #1	26°	789.70	788.80	777.42	2' - 0"	16' - 7"
WW #2	37°	790.10	789.90	777.42	2' - 0"	16' - 1"
WW #3	36°	789.00	789.00	775.55	2' - 0"	25' - 1"
WW #4	64°	788.20	787.80	775.55	2' - 0"	16' - 1"

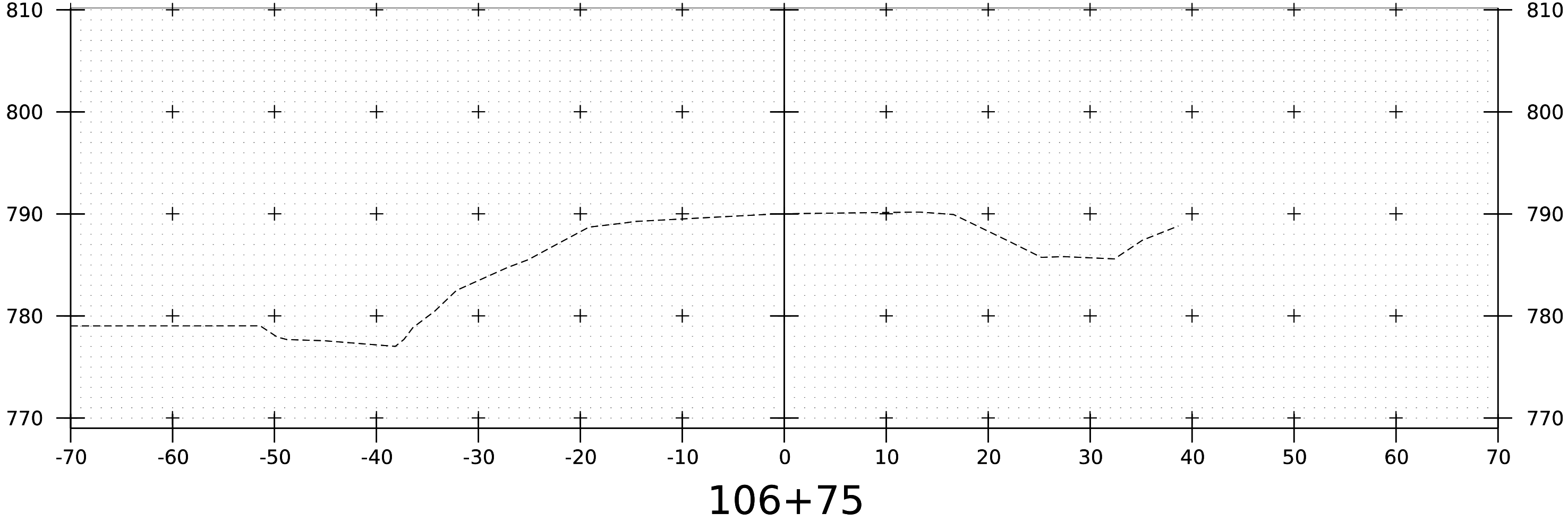
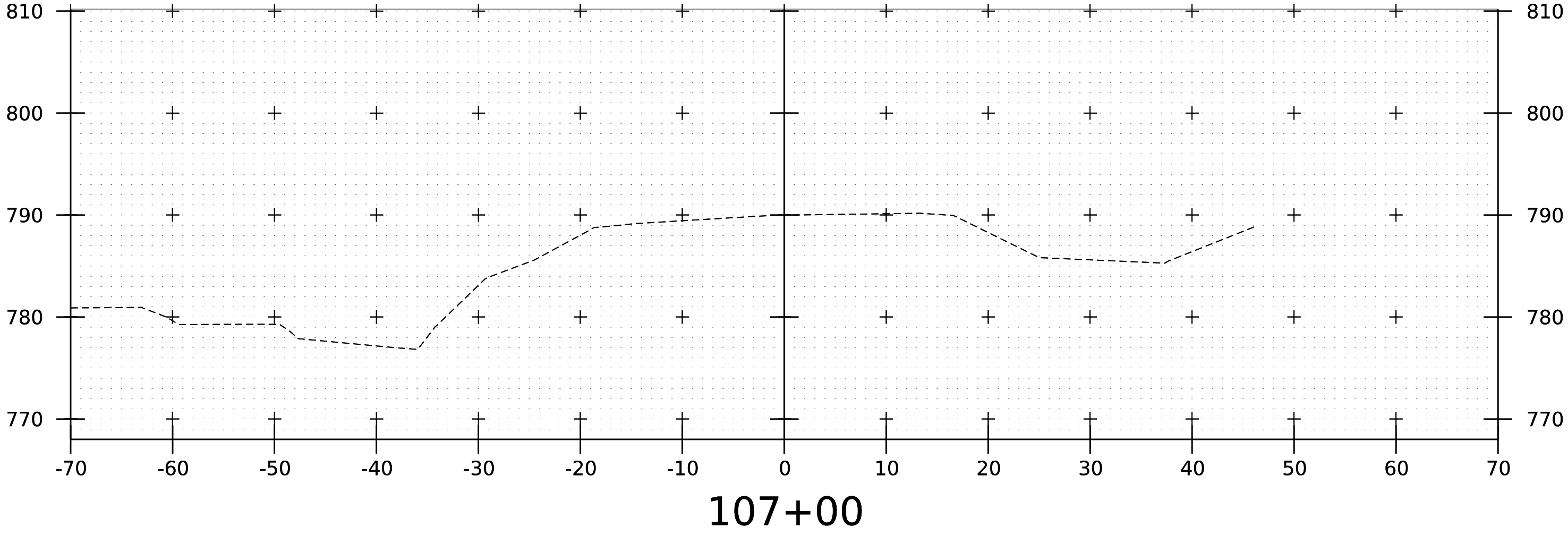
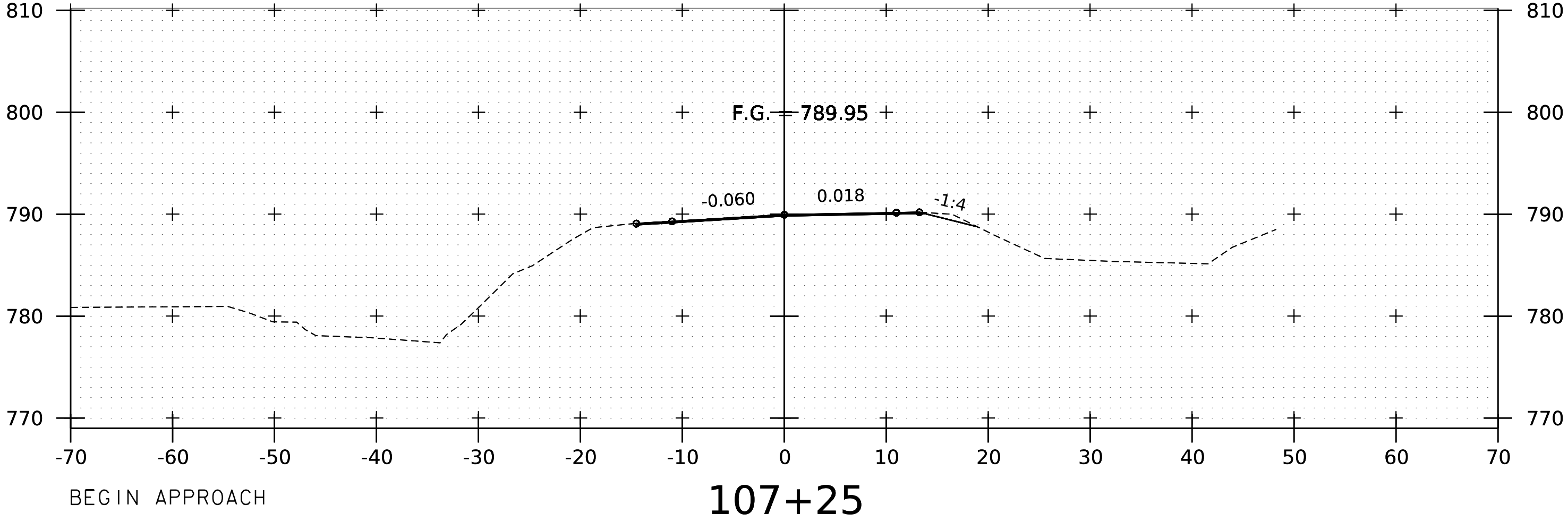
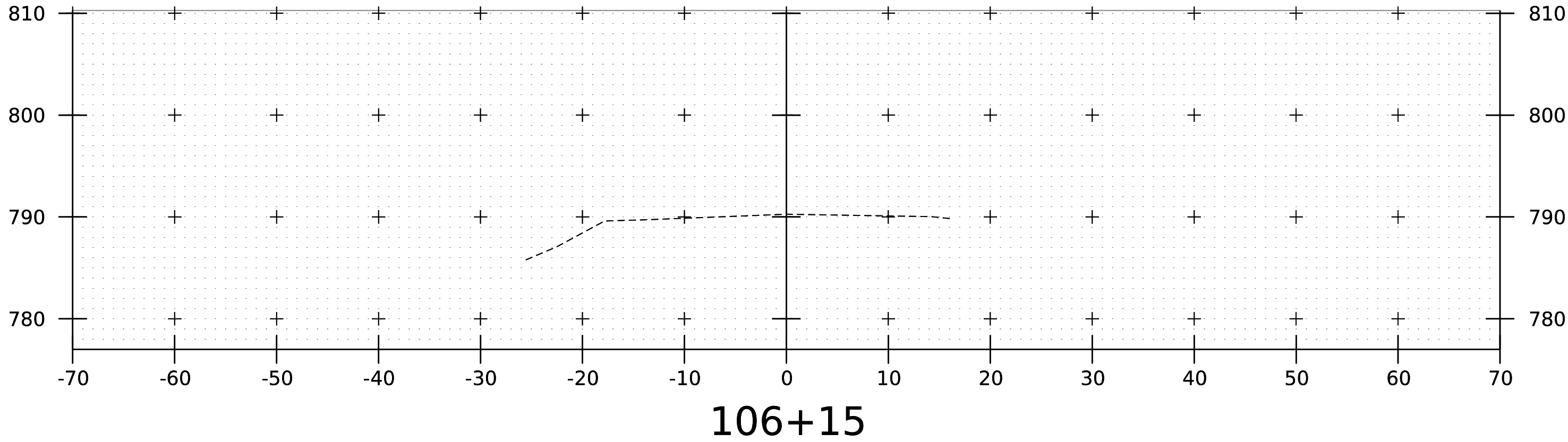
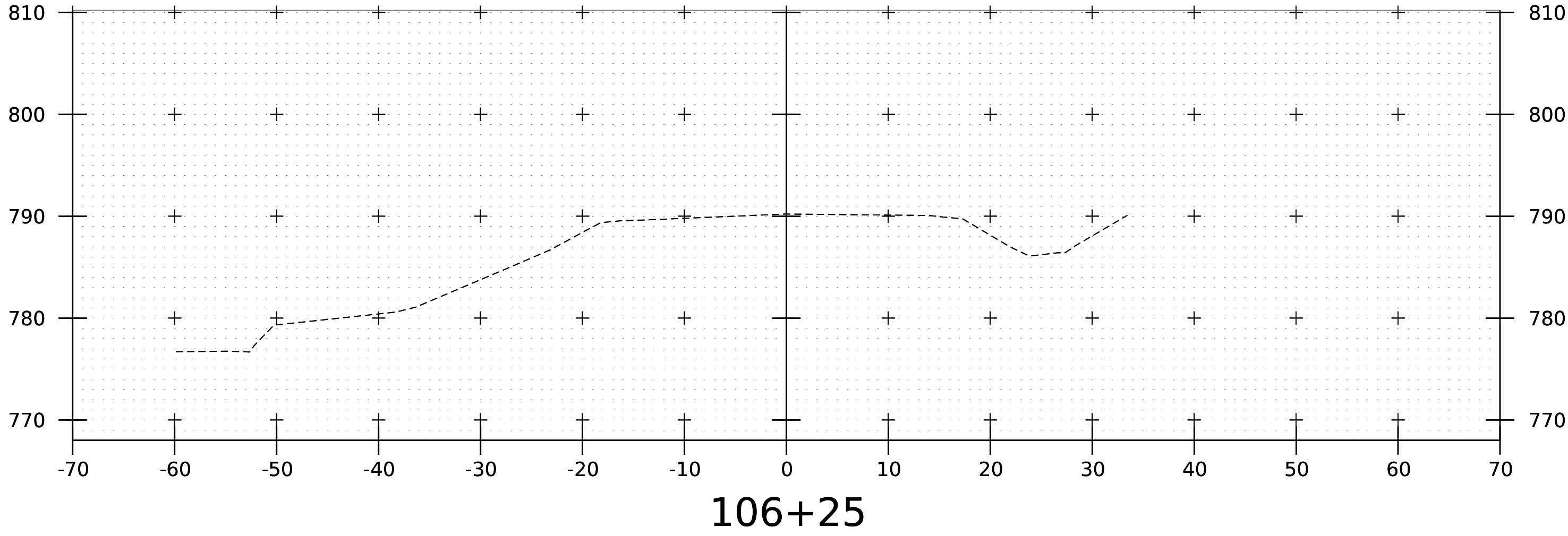
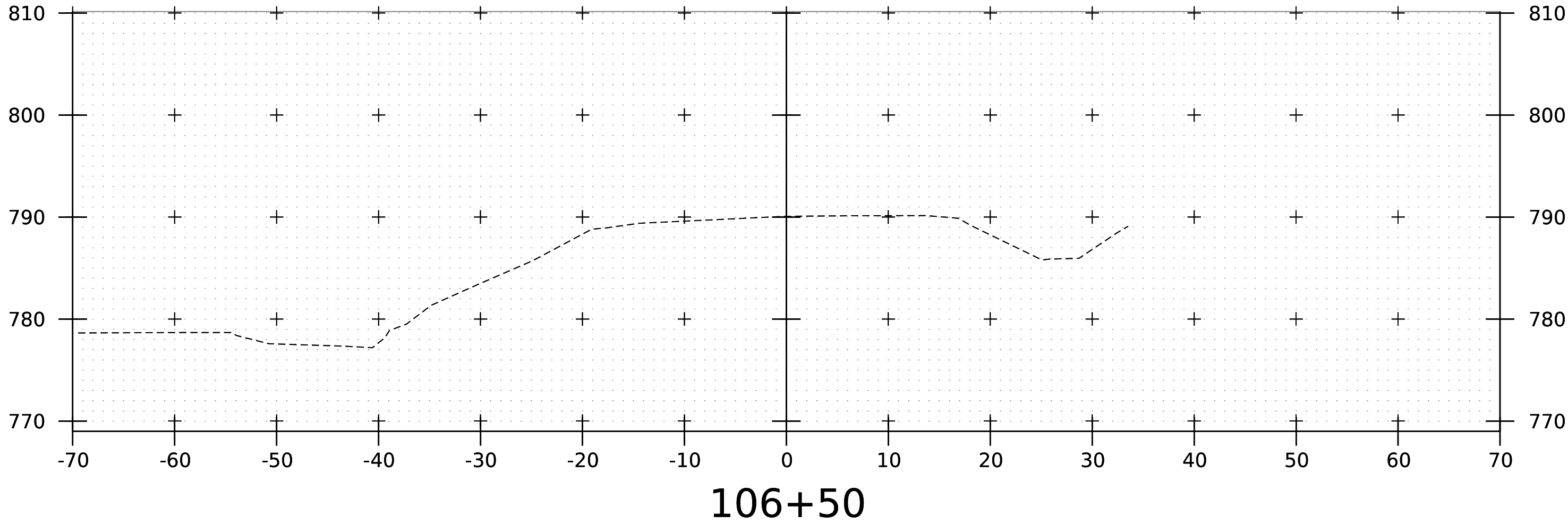
DIMENSIONS MEASURED ALONG FRONT FACE OF WINGWALL.

NOTES:

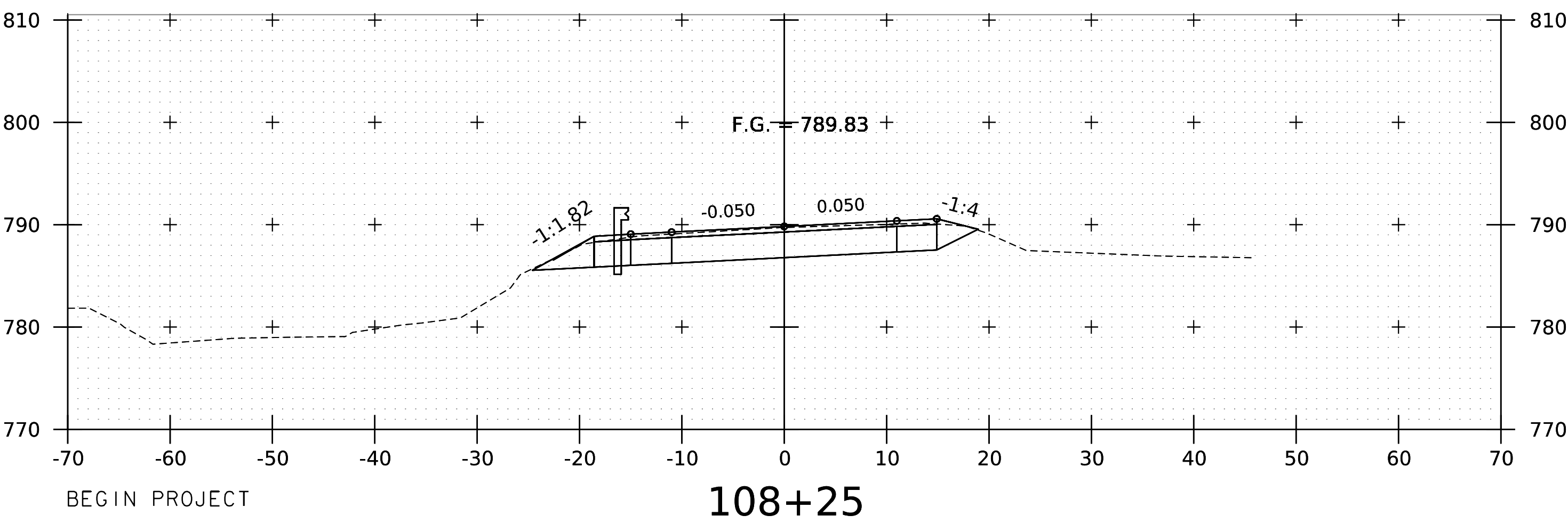
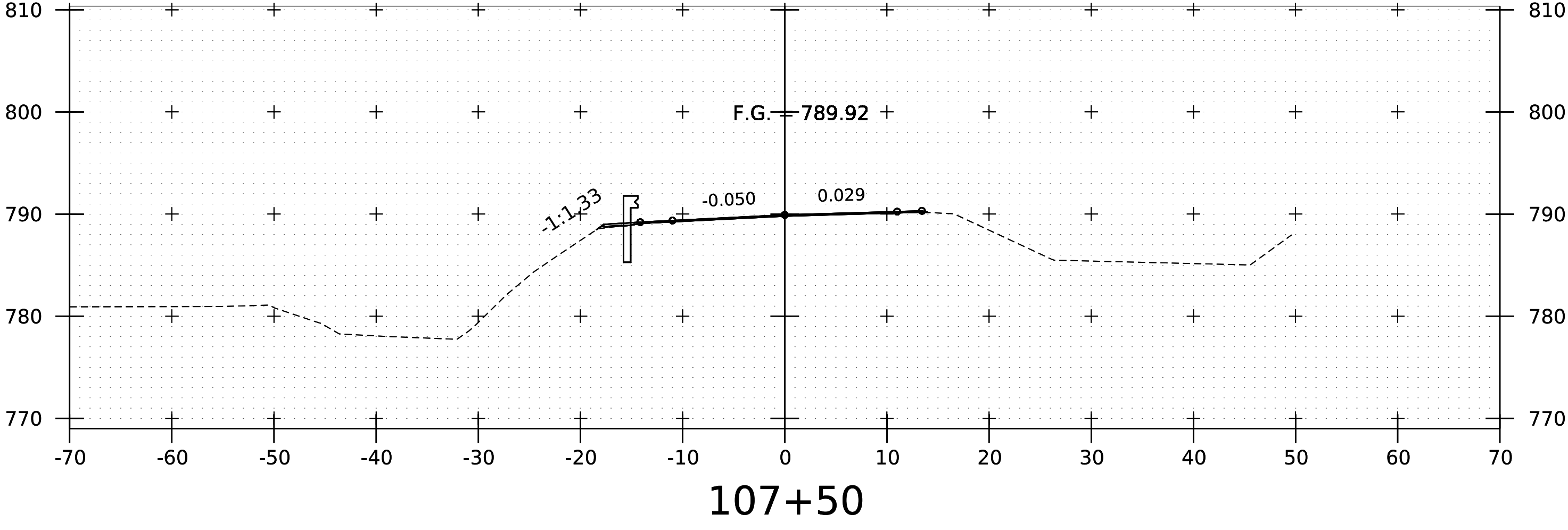
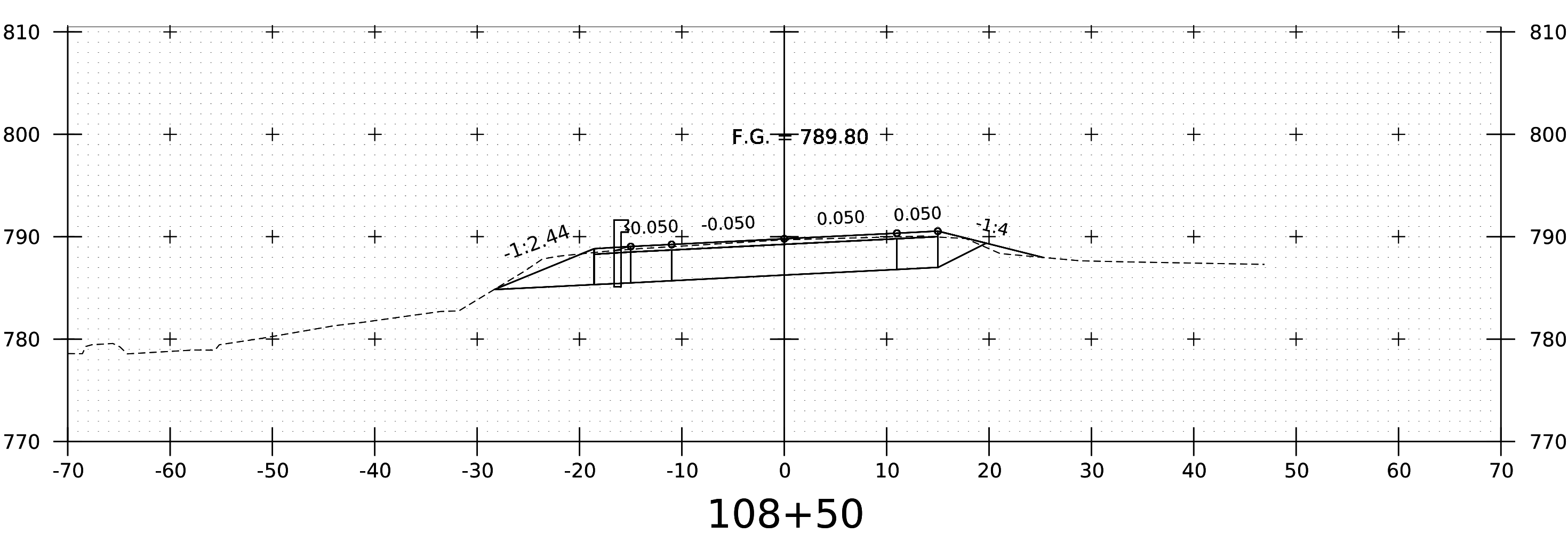
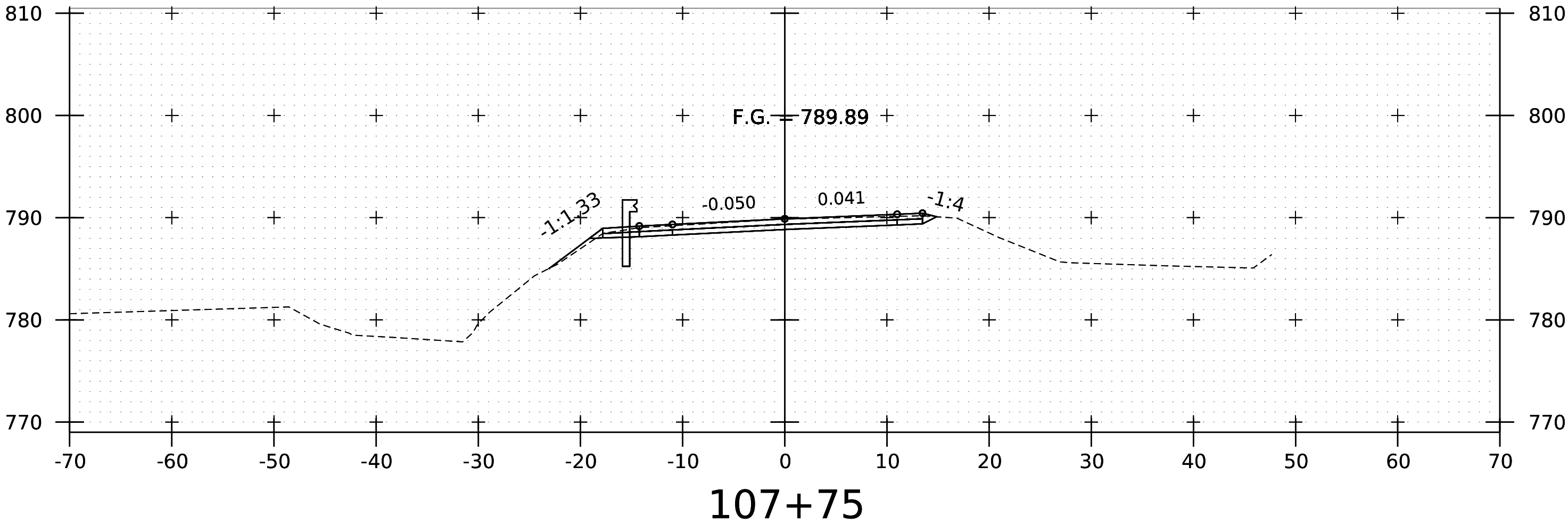
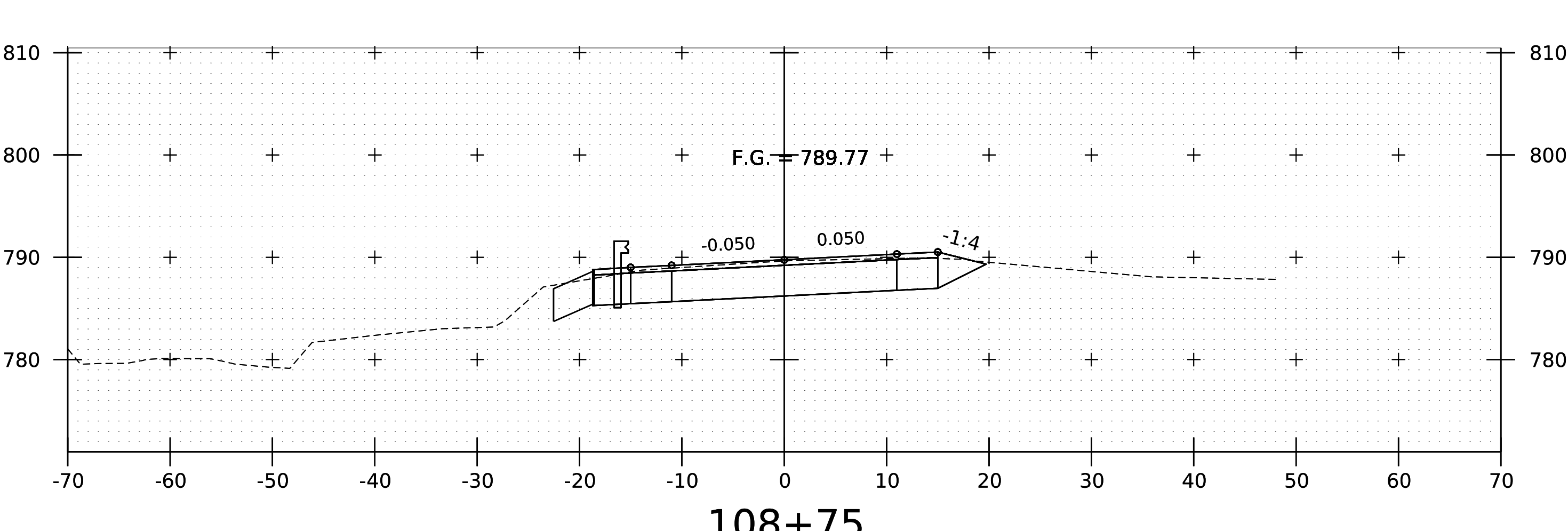
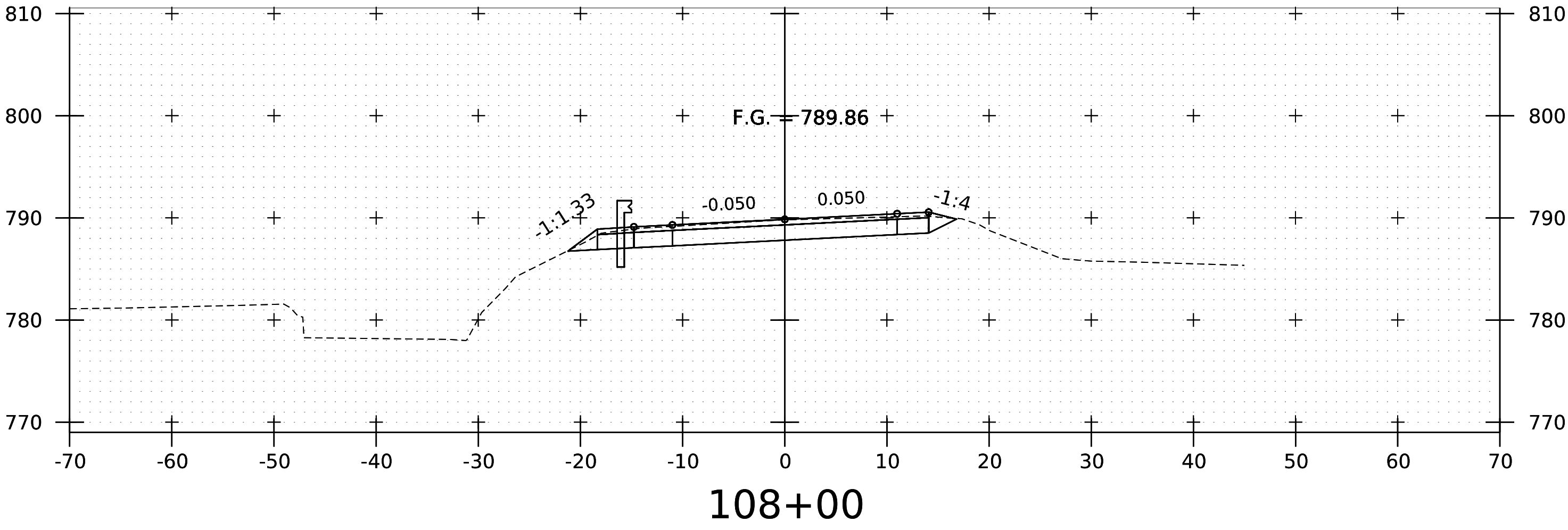
- SECTION, PLAN AND ELEVATION VIEWS ARE SCHEMATIC DRAWINGS USED TO REFERENCE INFORMATION PROVIDED IN THE TABLES. THESE VIEWS DO NOT DEPICT THE ACTUAL LAYOUT OF THE STRUCTURE.
- SEE THE BOX CULVERT PLAN AND ELEVATION SHEET FOR MORE INFORMATION.

PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

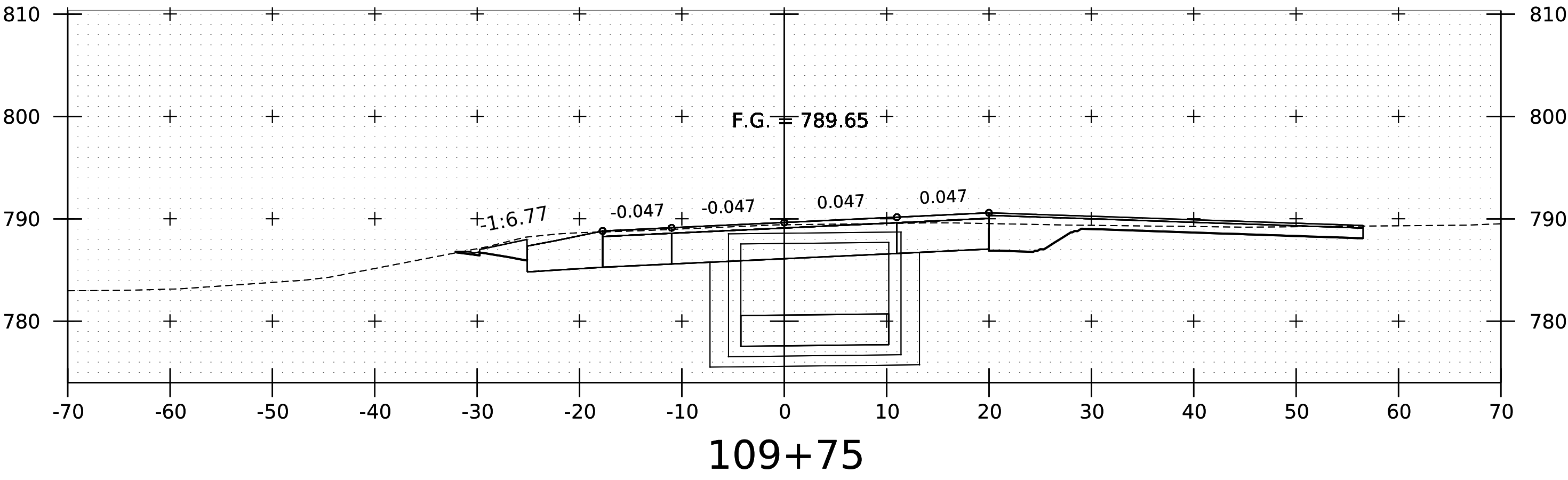
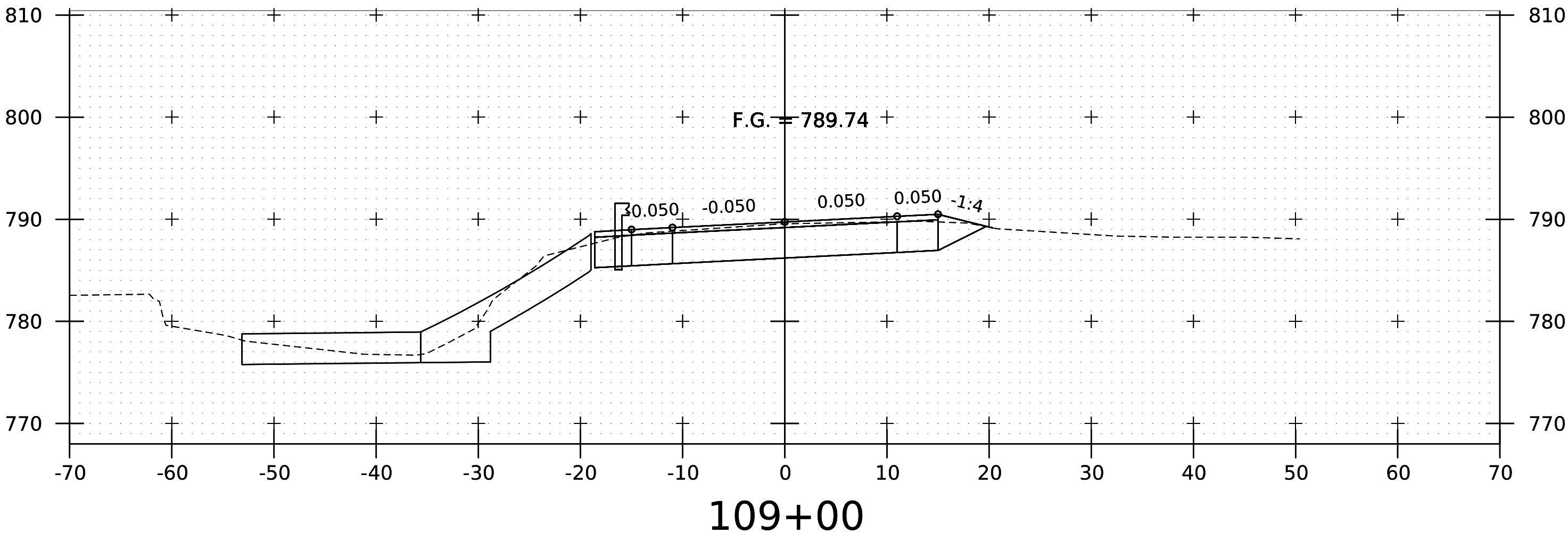
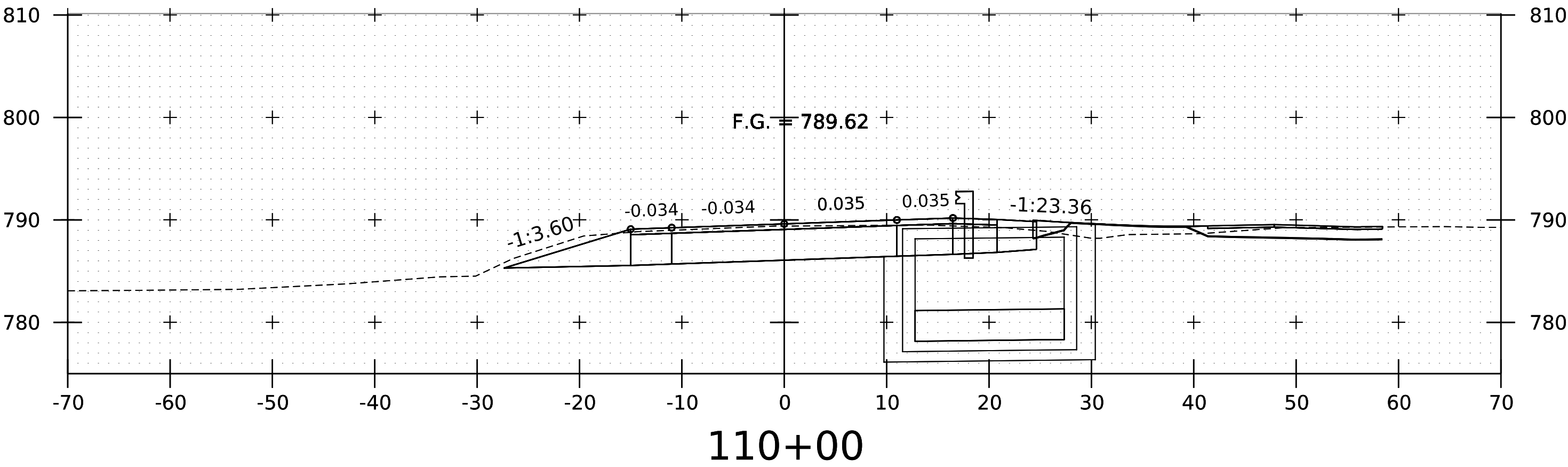
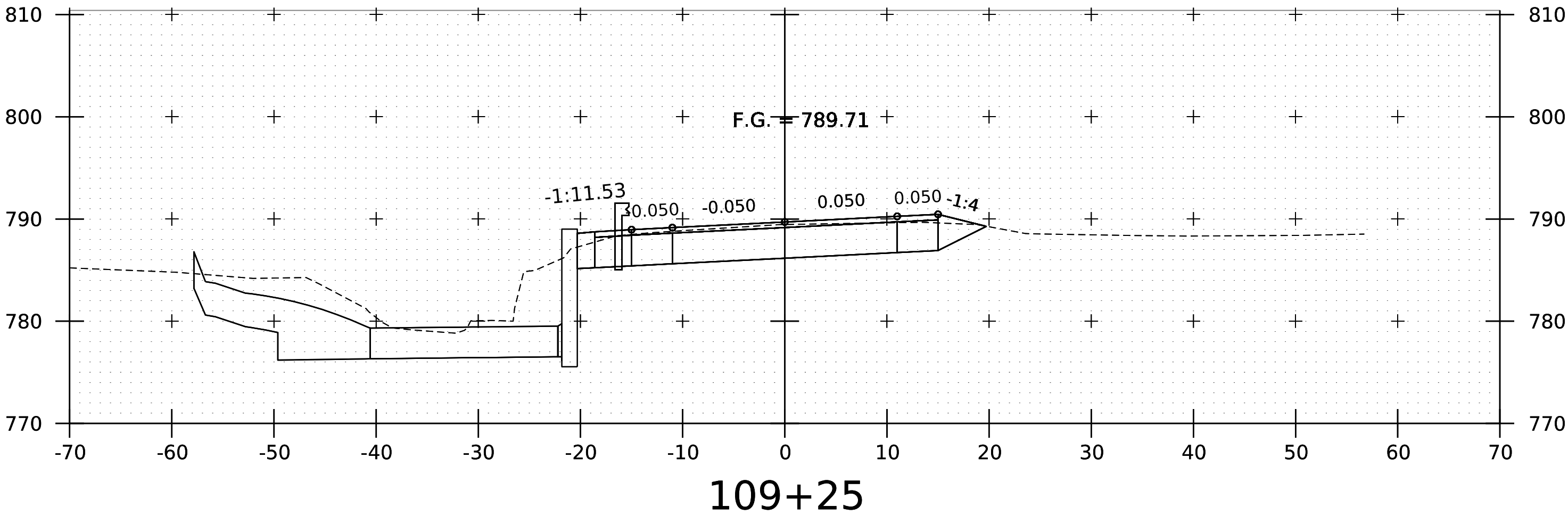
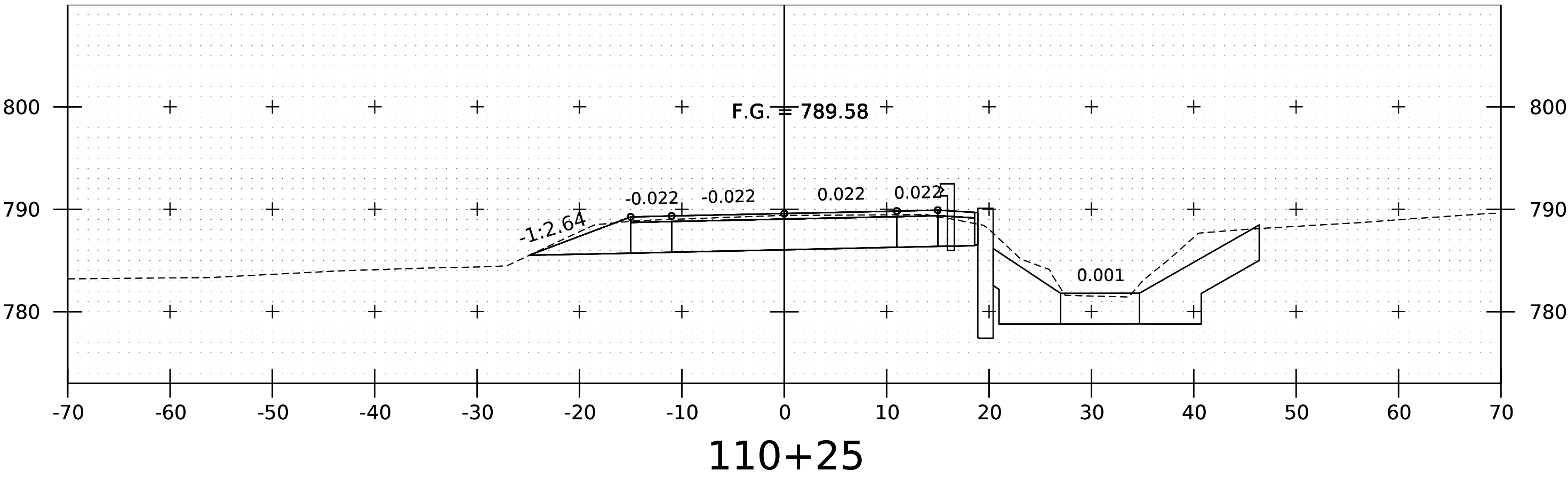
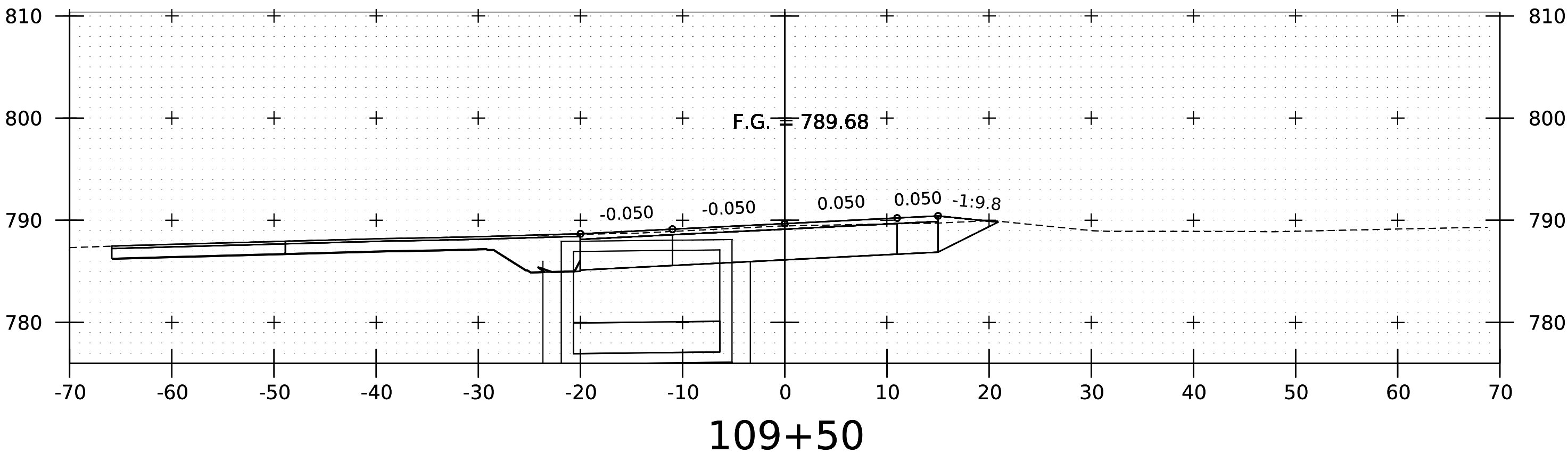
FILE NAME: s2lb025culvert.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
BOX CULVERT END DETAILS
PLOT DATE: 9/5/2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 21 OF 29



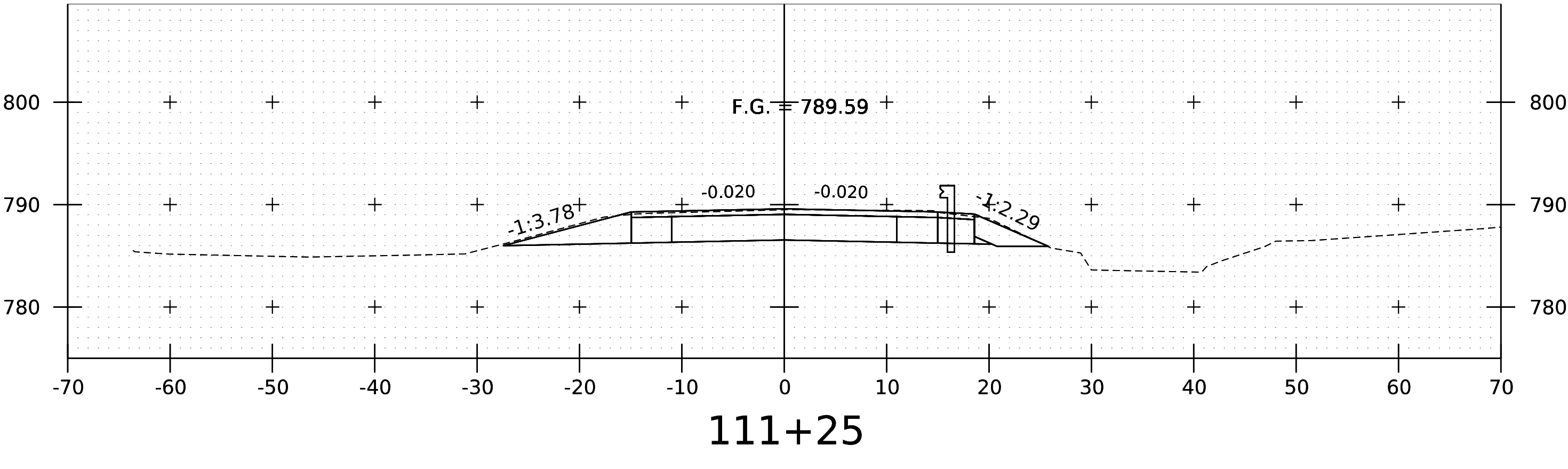
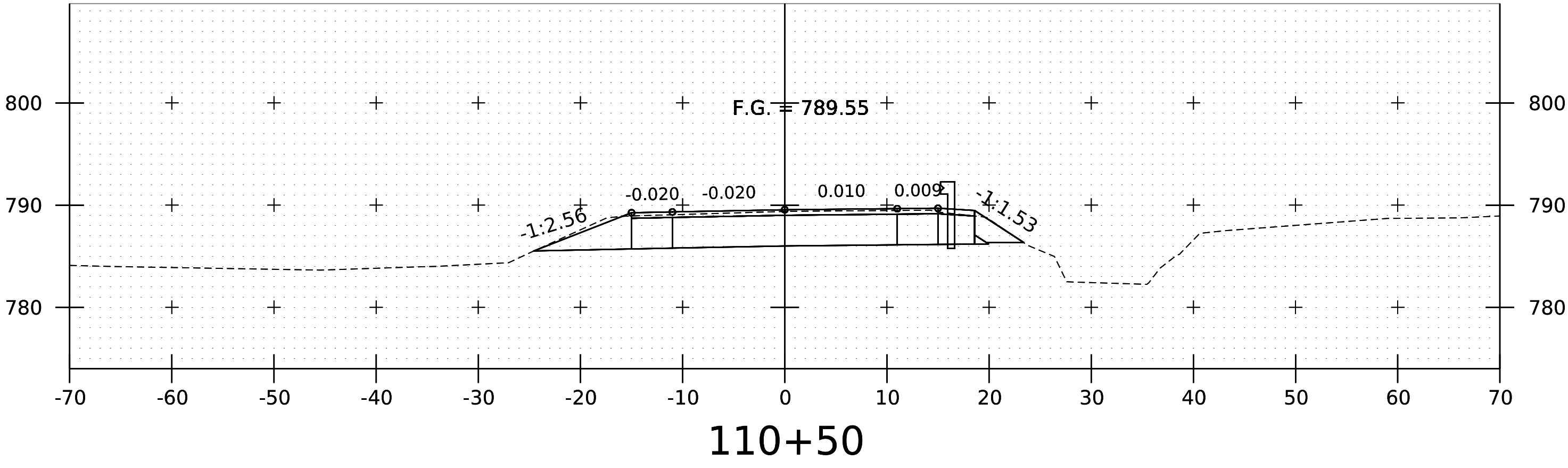
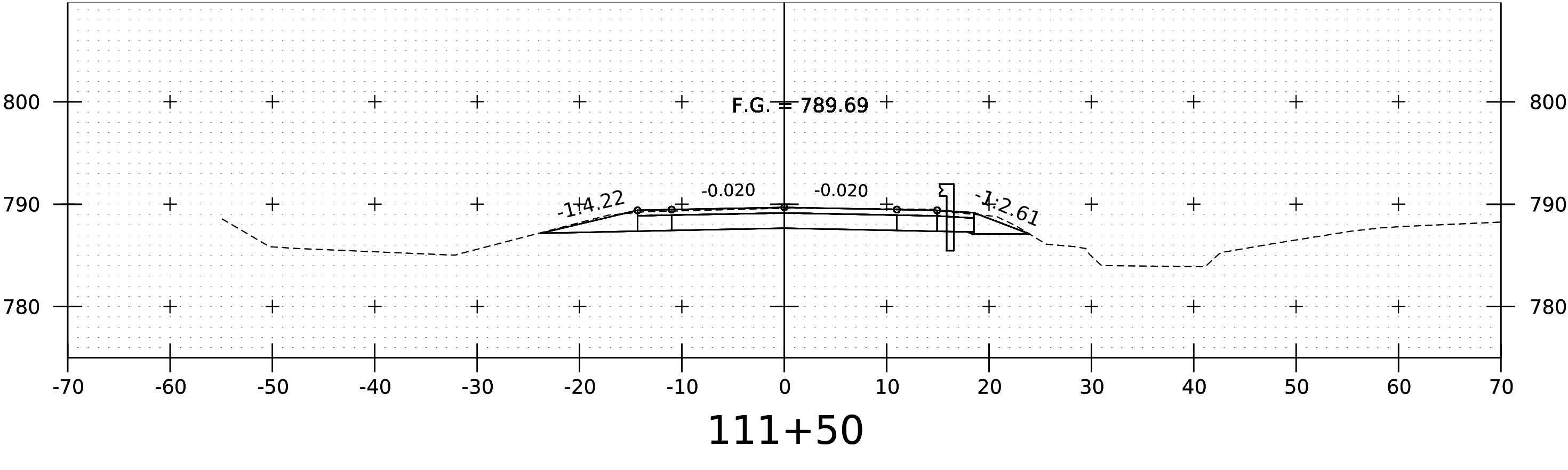
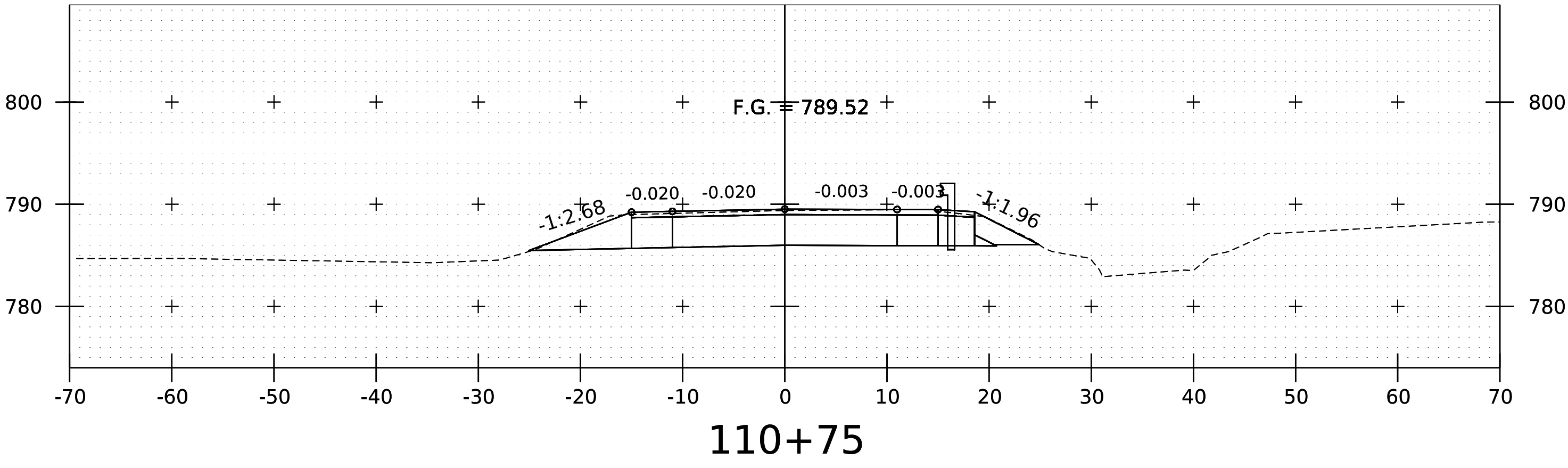
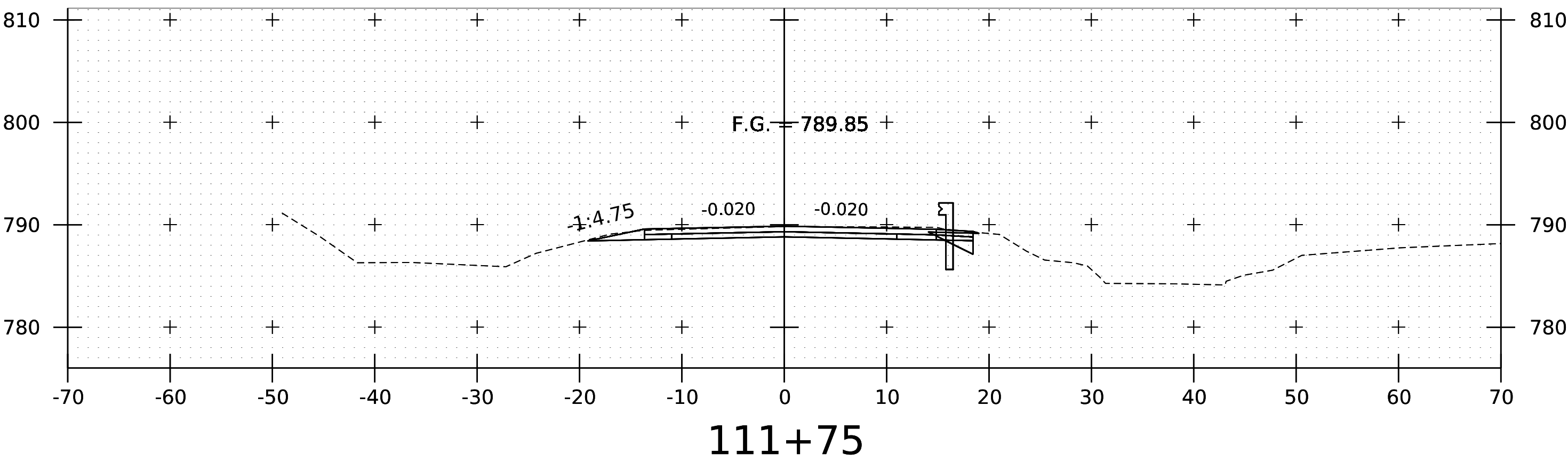
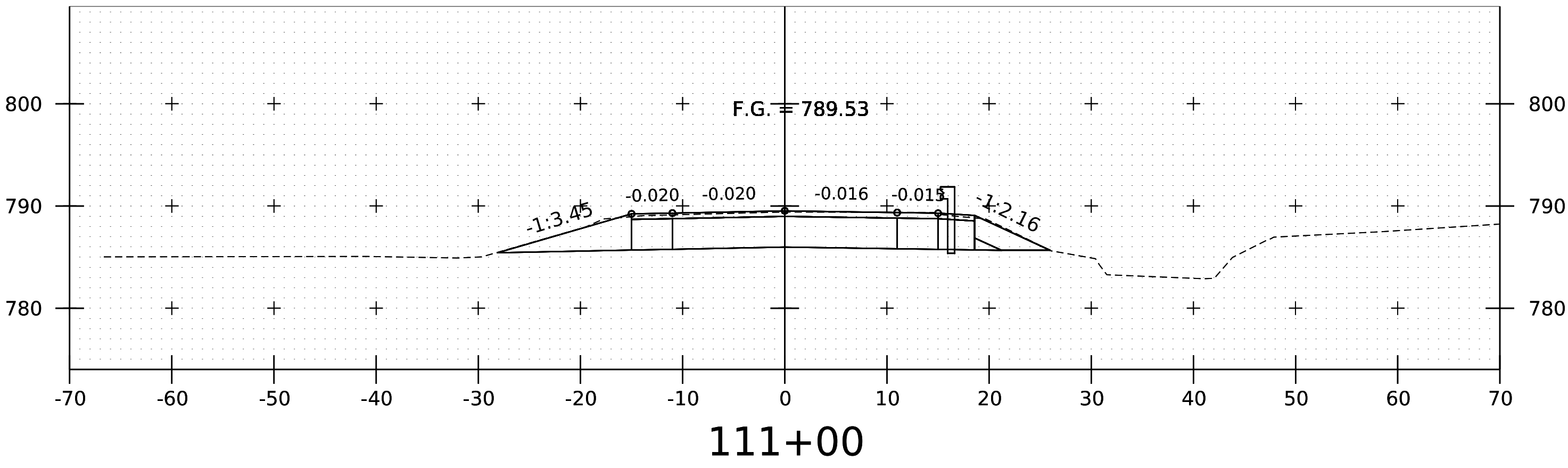
PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 025I(49)	
FILE NAME: s2b025mainlinexs.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
VT I4 CROSS SECTIONS I	SHEET 22 OF 29



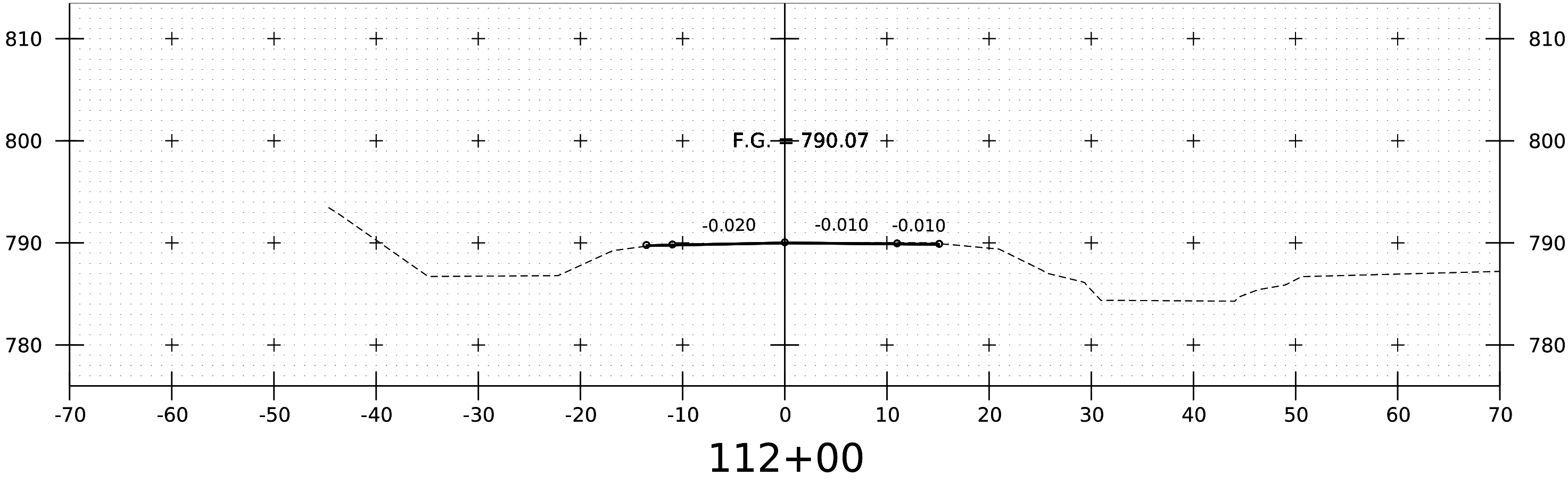
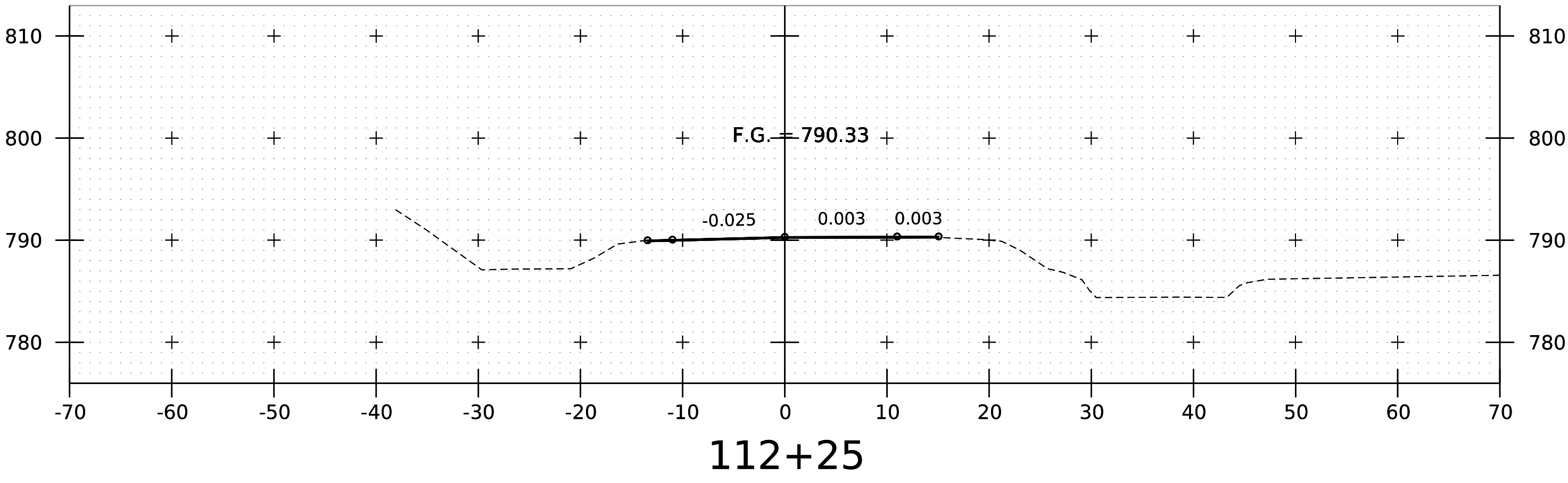
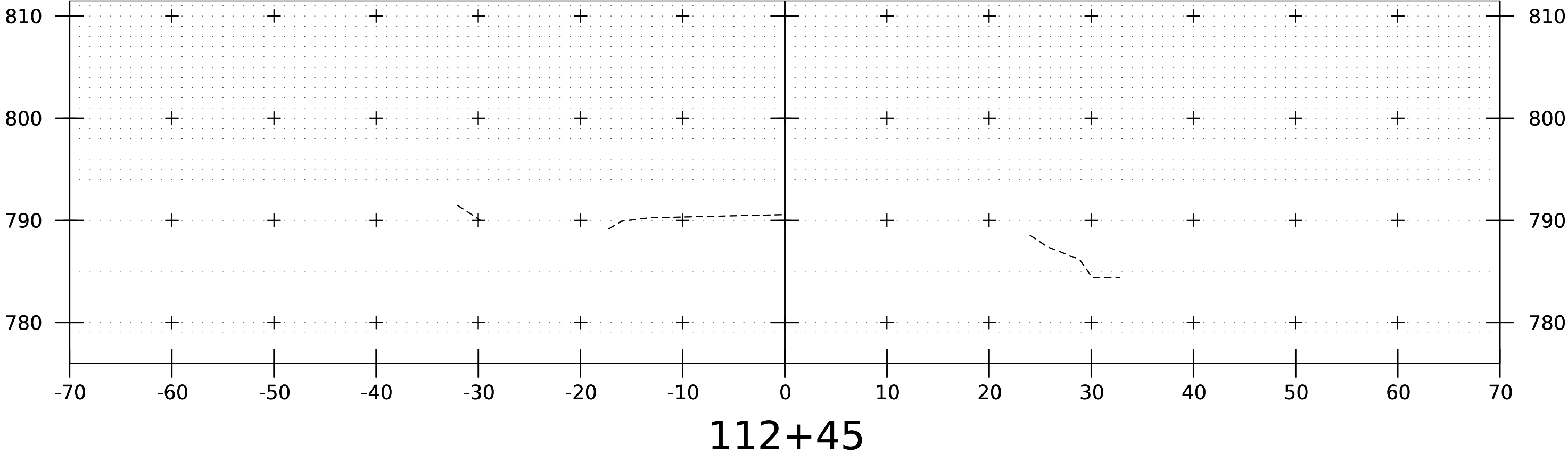
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PROJECT NUMBER: BF 025I(49)	
FILE NAME: s2b025mainlinexs.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
VT I4 CROSS SECTIONS 2	SHEET 23 OF 29



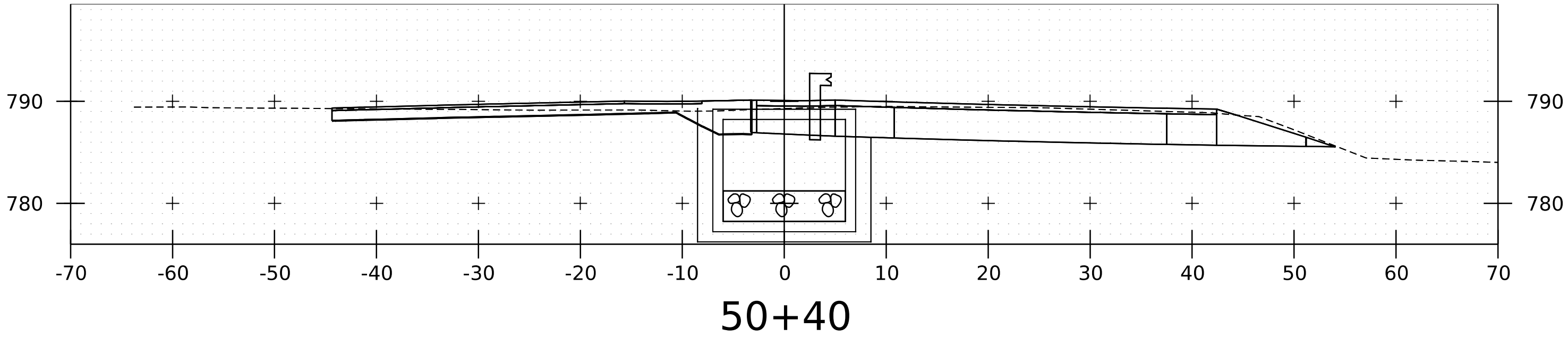
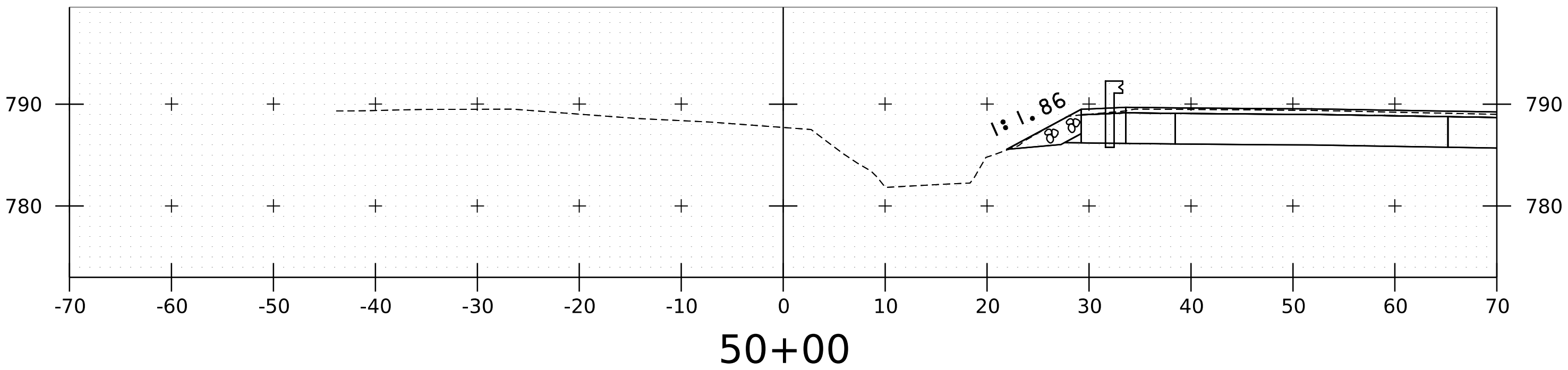
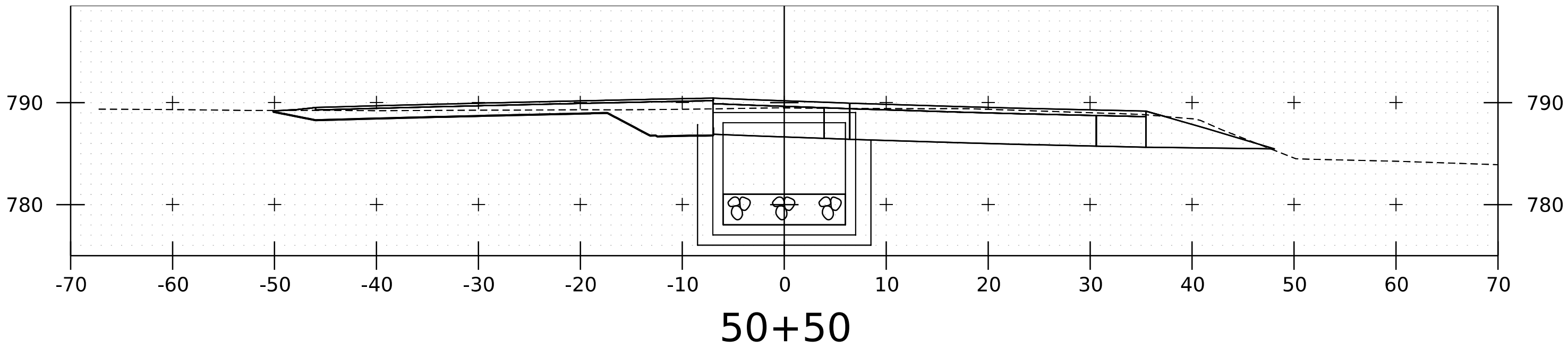
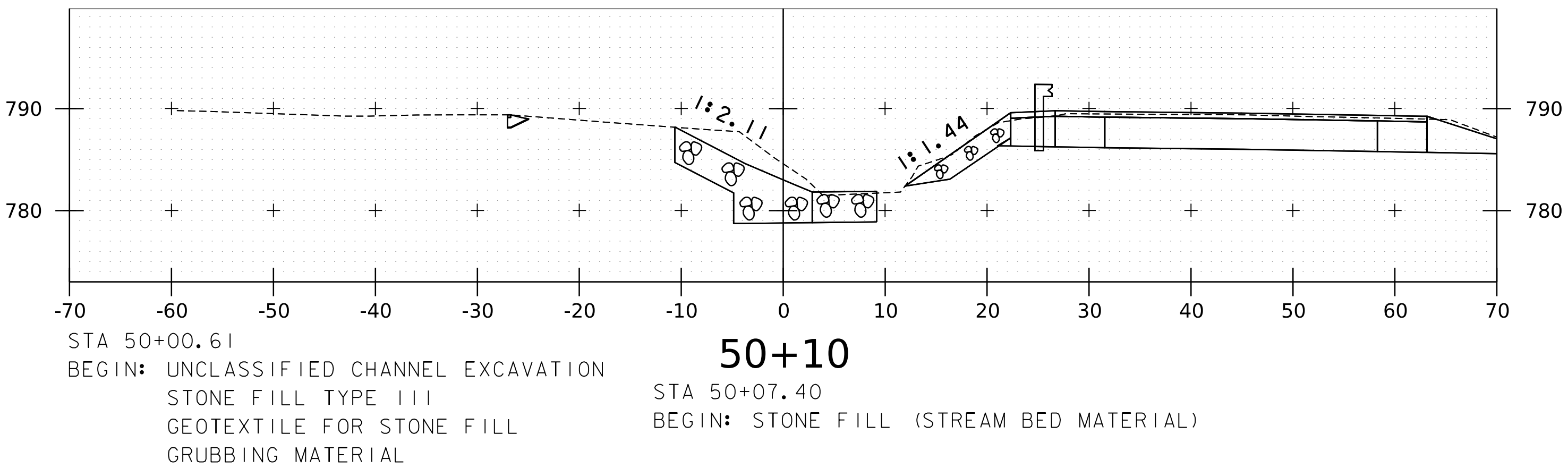
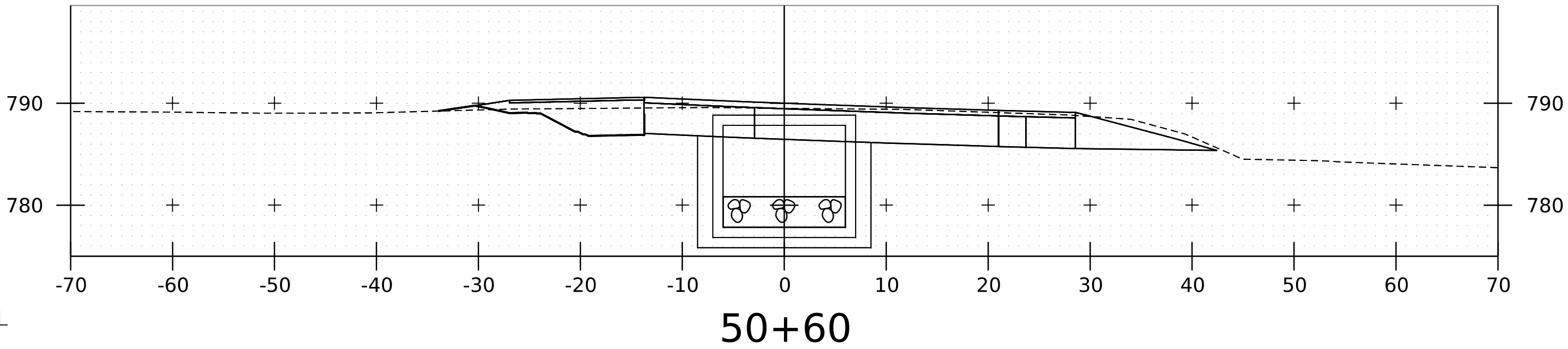
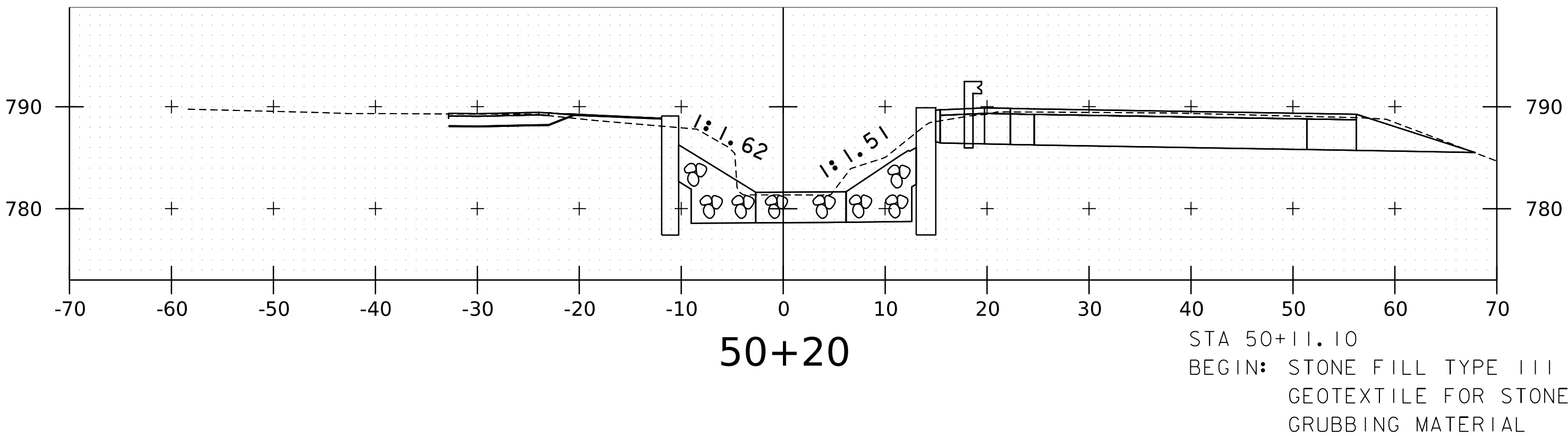
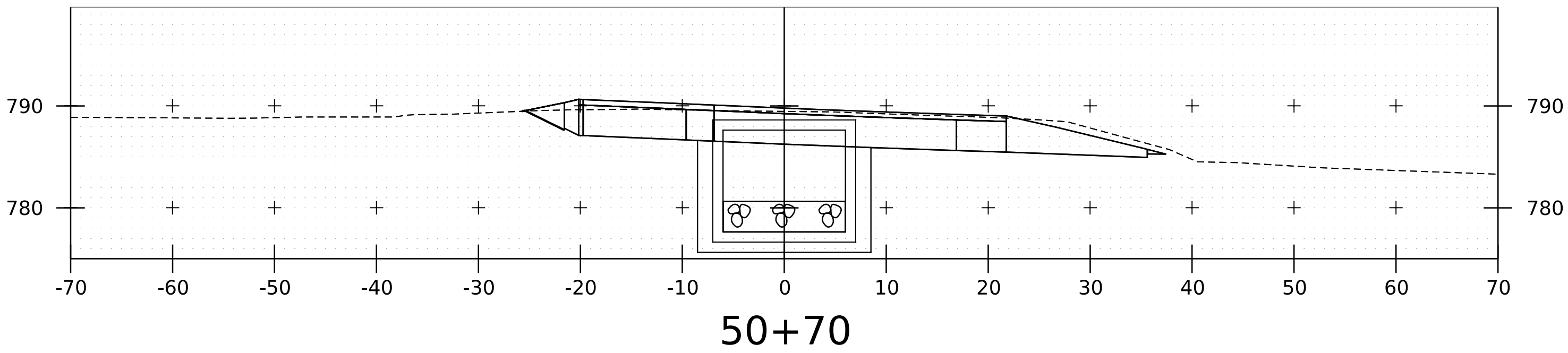
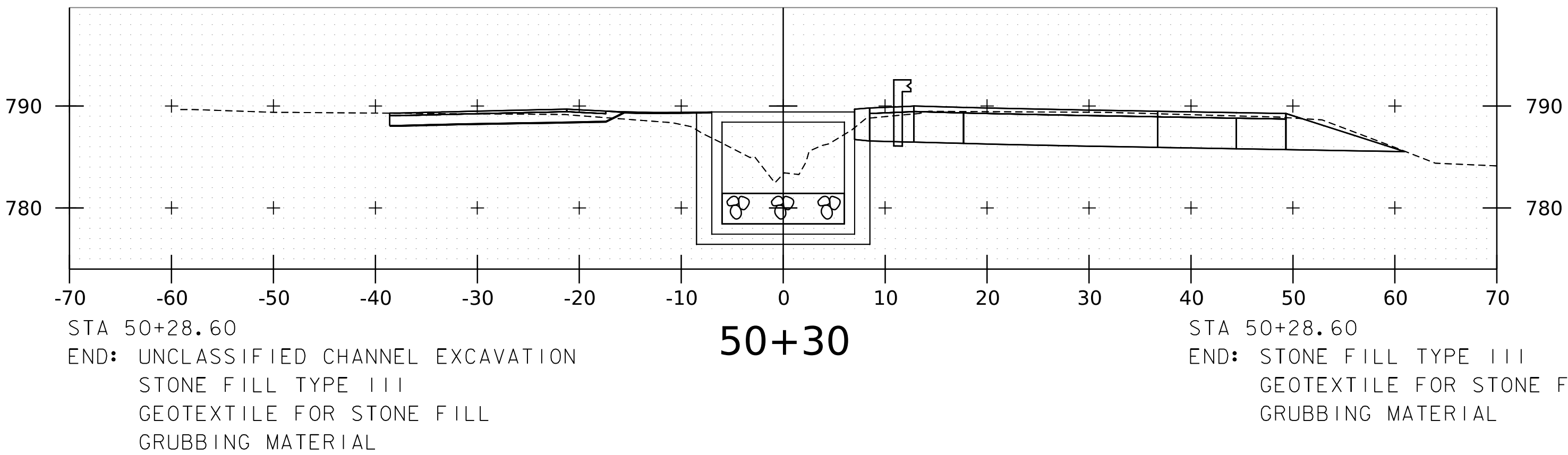
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PROJECT NUMBER: BF 025I(49)	
FILE NAME: s2lb025mainlinexs.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
VT I4 CROSS SECTIONS 3	SHEET 24 OF 29



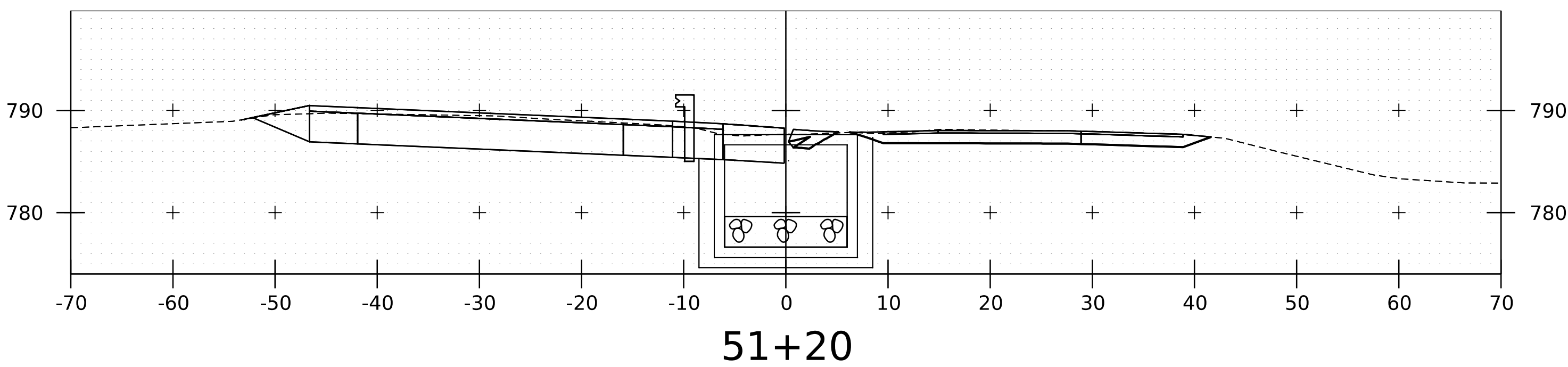
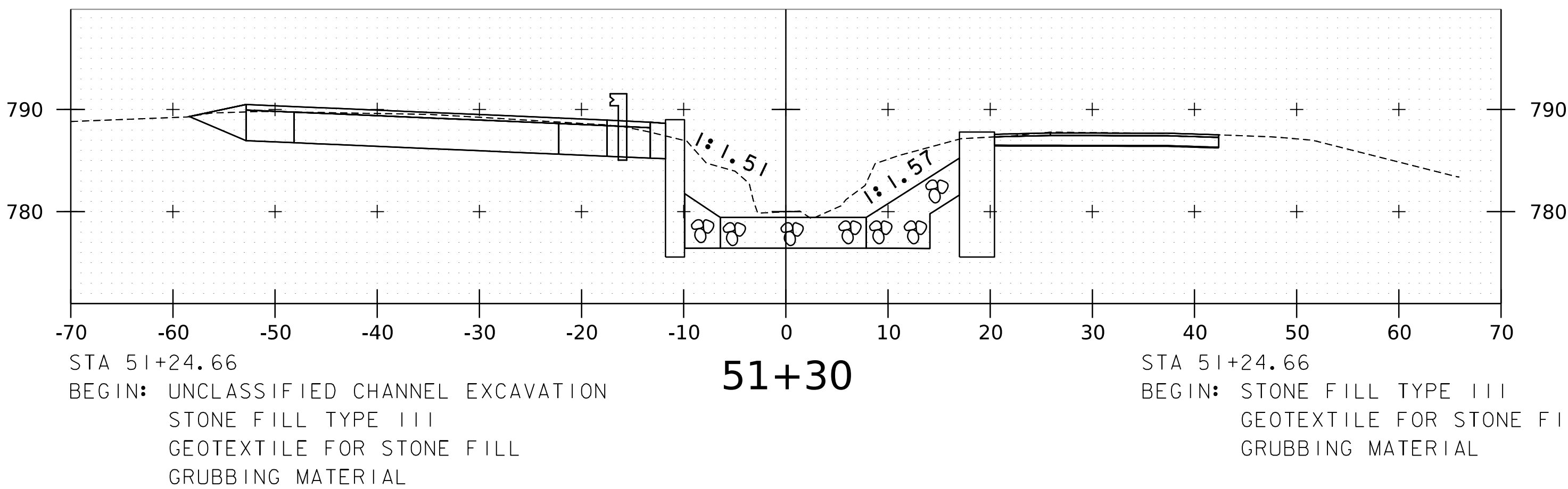
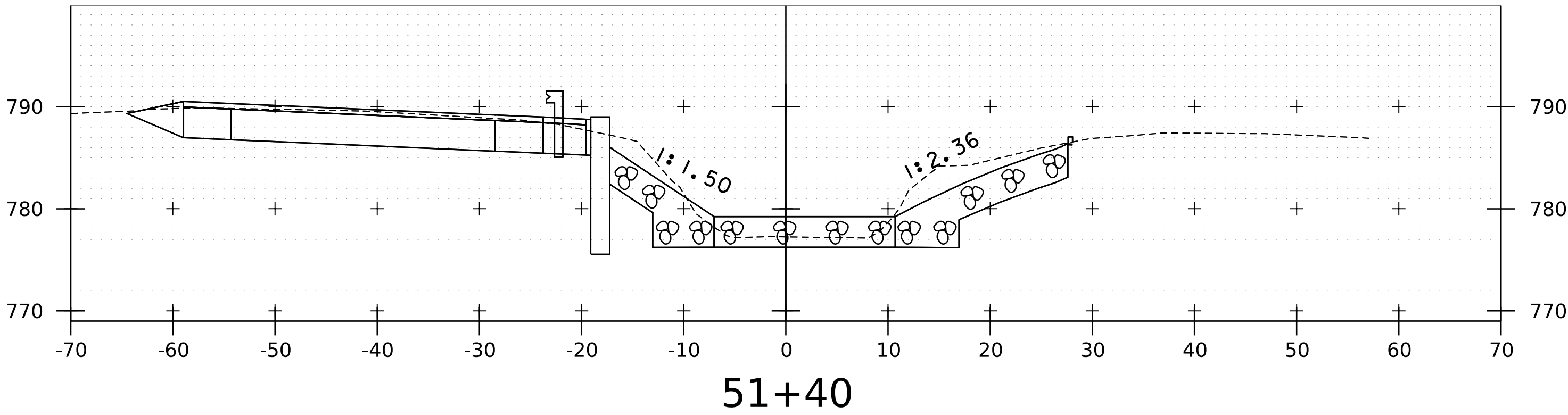
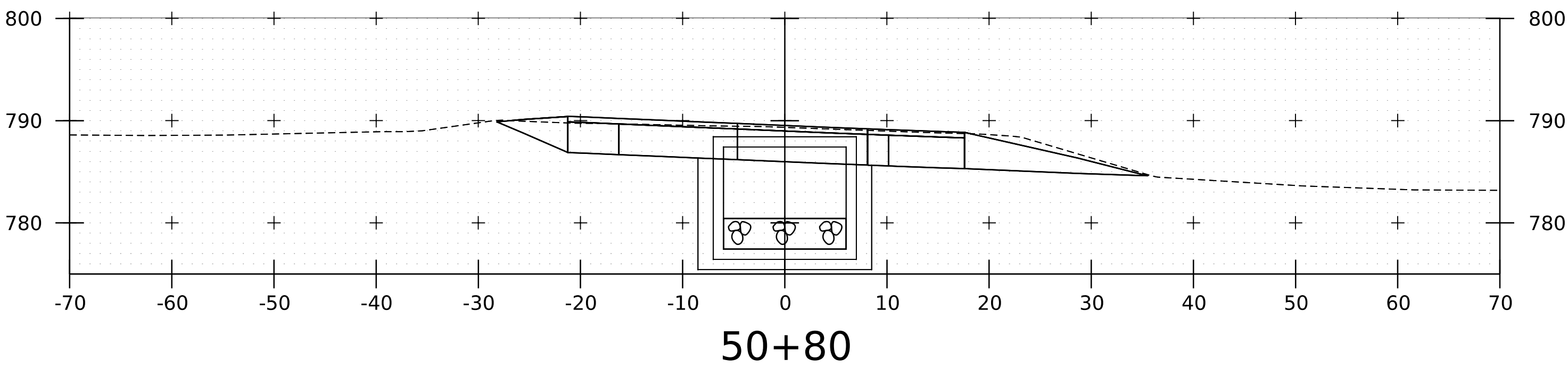
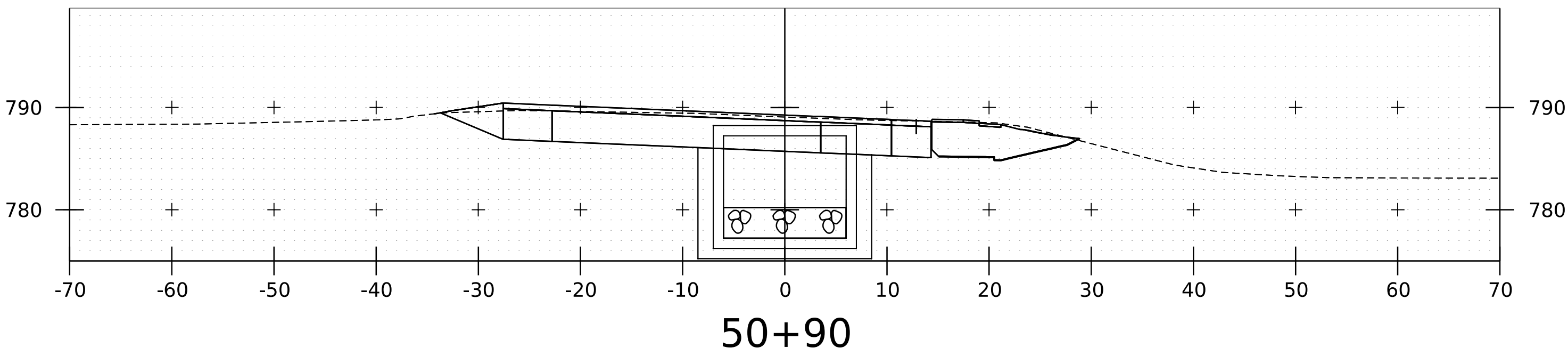
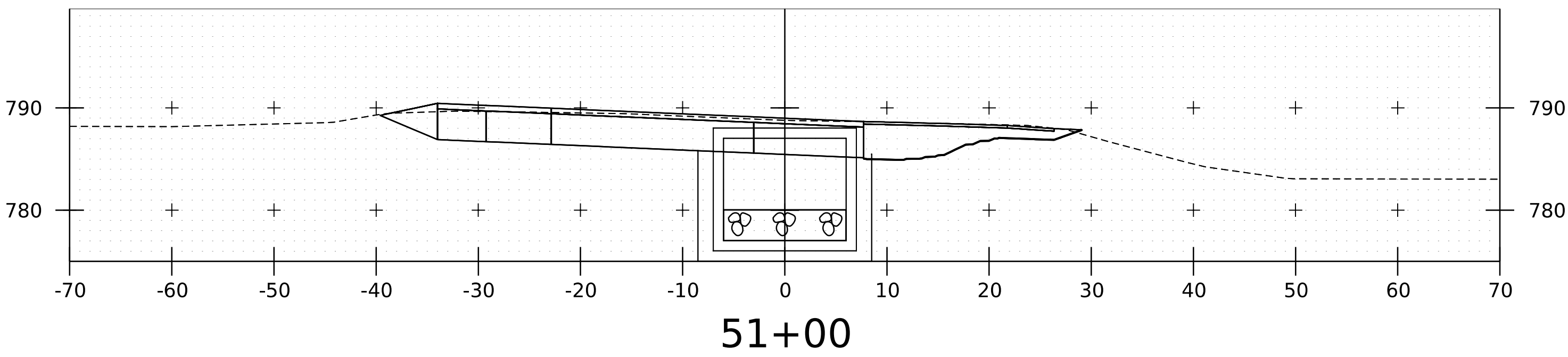
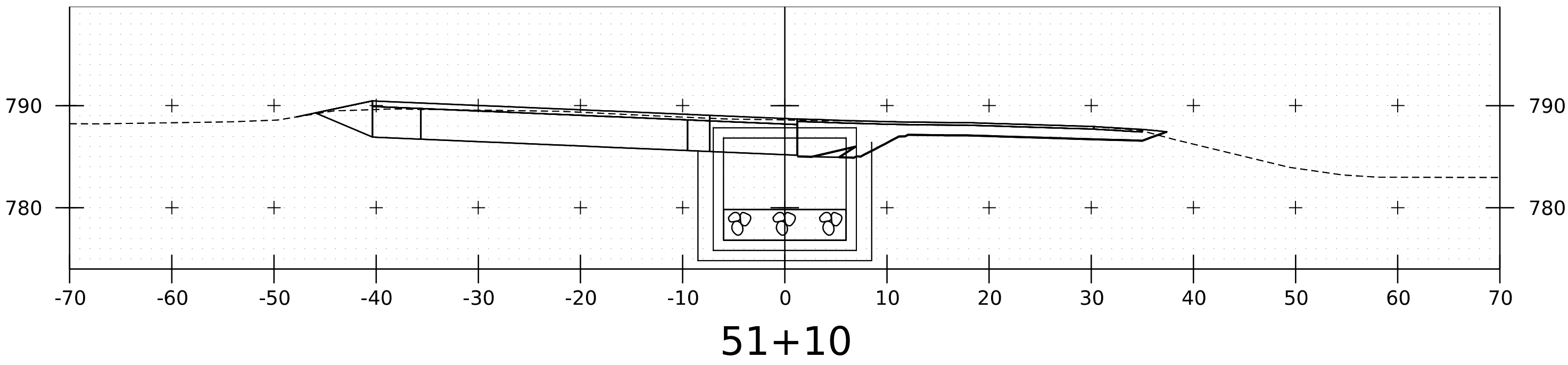
PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 025I(49)	
FILE NAME: s2b025mainlinexs.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
VT I4 CROSS SECTIONS 4	SHEET 25 OF 29



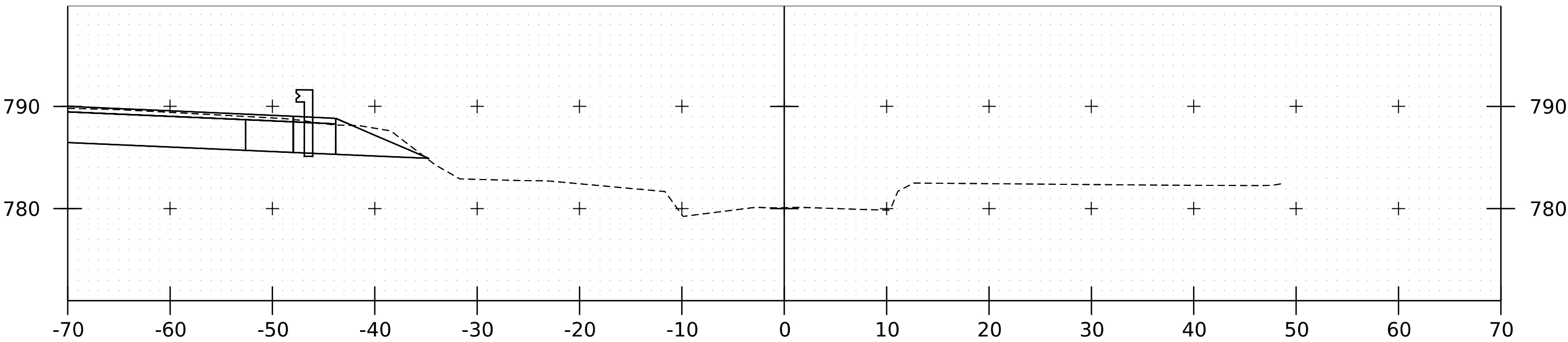
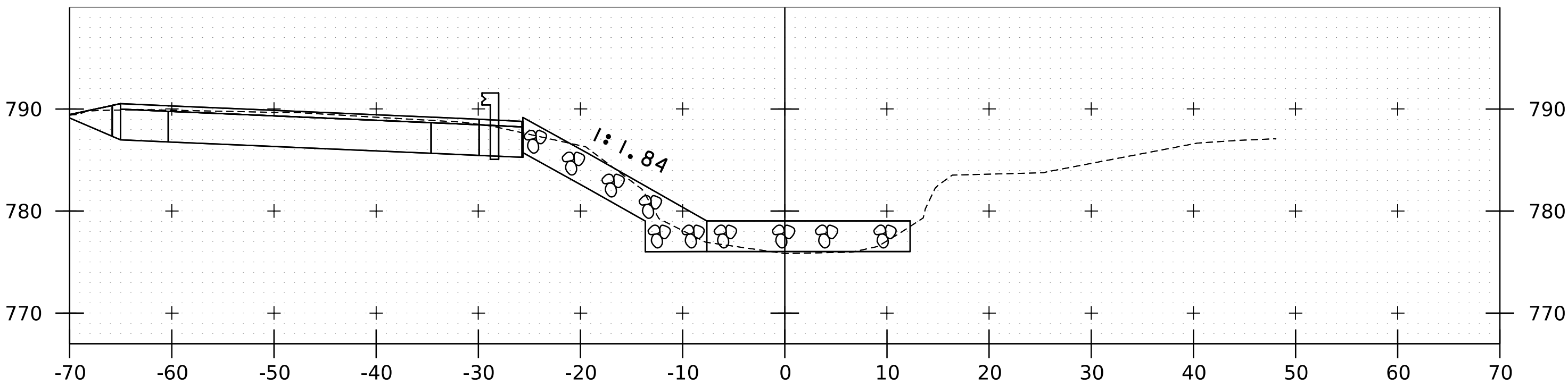
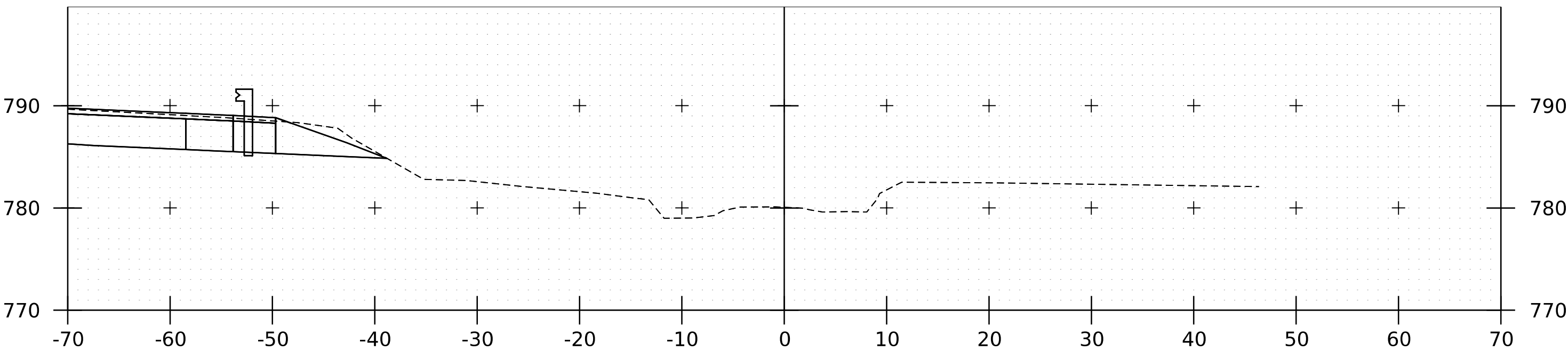
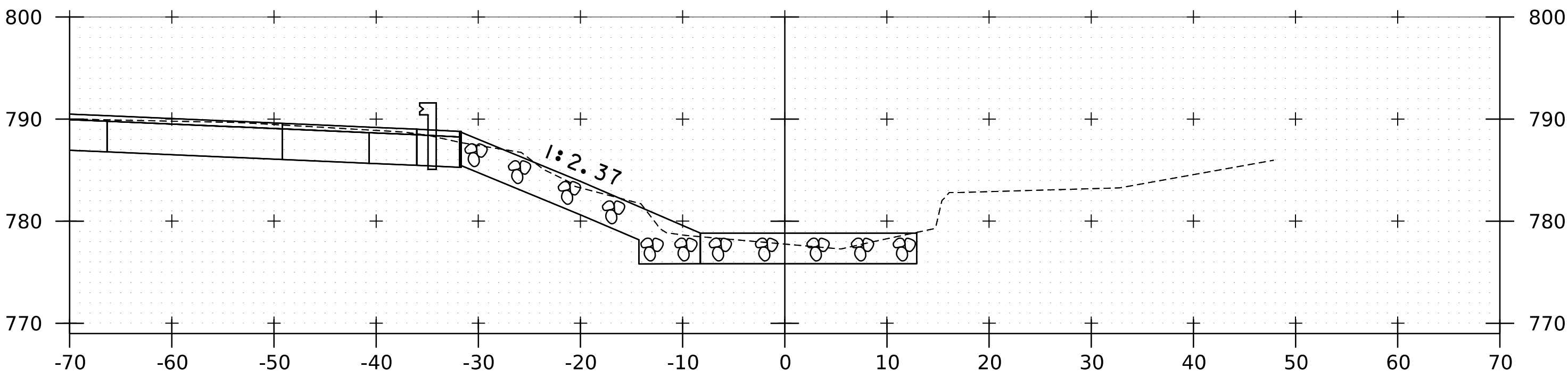
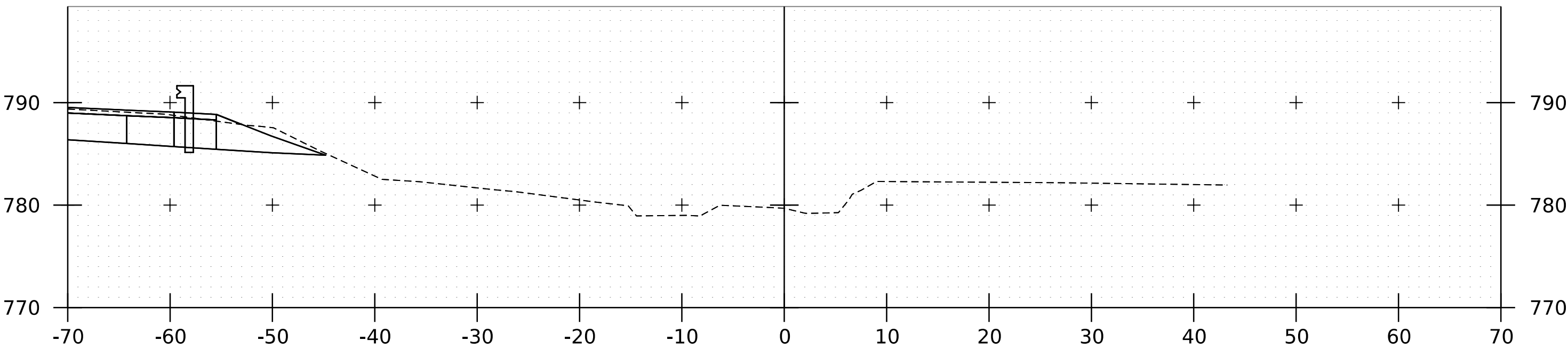
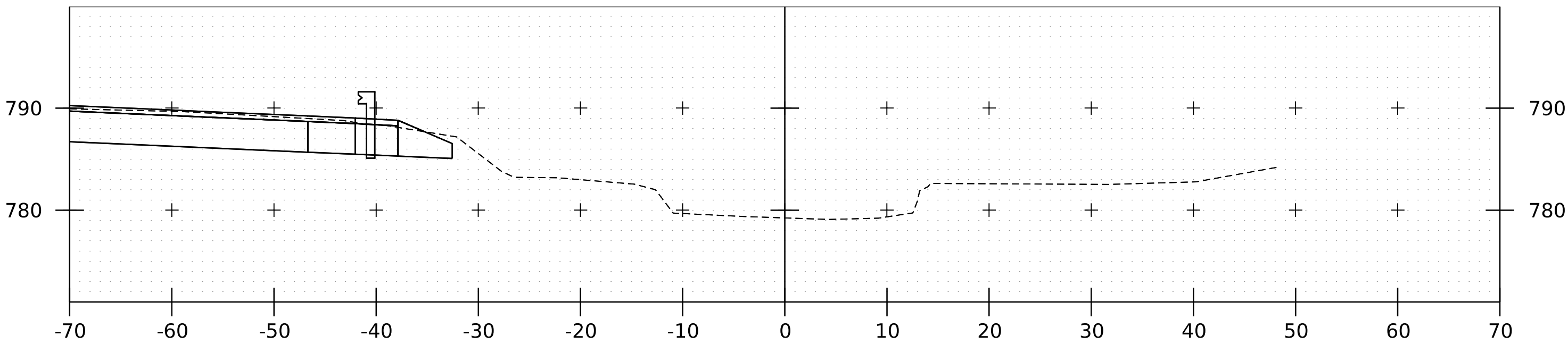
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PROJECT NUMBER: BF 025I(49)	
FILE NAME: s2lb025mainlinexs.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
VT I4 CROSS SECTIONS 5	SHEET 26 OF 29



PROJECT NAME: COVENTRY	
PROJECT NUMBER: BF 0251(49)	
FILE NAME: s2lb025channelxs.dgn	PLOT DATE: 26-JUN-2023
PROJECT LEADER: R. KLINEFELTER	DRAWN BY: S. COLEY
DESIGNED BY: S. COLEY	CHECKED BY: R. KLINEFELTER
CHANNEL CROSS SECTIONS I	SHEET 27 OF 29



PROJECT NAME:	COVENTRY
PROJECT NUMBER:	BF 025I(49)
FILE NAME:	s2lb025channelxs.dgn
PROJECT LEADER:	R. KLINEFELTER
DESIGNED BY:	S. COLEY
CHANNEL CROSS SECTIONS 2	
PLOT DATE:	26-JUN-2023
DRAWN BY:	S. COLEY
CHECKED BY:	R. KLINEFELTER
SHEET	28 OF 29



51+70

52+00

51+60

51+90

51+50

51+80

PROJECT NAME: COVENTRY
PROJECT NUMBER: BF 0251(49)

FILE NAME: s2lb025channelxs.dgn
PROJECT LEADER: R. KLINEFELTER
DESIGNED BY: S. COLEY
CHANNEL CROSS SECTIONS 3
PLOT DATE: 26-JUN-2023
DRAWN BY: S. COLEY
CHECKED BY: R. KLINEFELTER
SHEET 29 OF 29