

REVIEWER NOTES:

1. BRIDGE HAS FAILED AND IS NO LONGER OPEN TO TRAFFIC. TRAFFIC WILL CONTINUE TO USE LOCAL DETOURS DURING CONSTRUCTION.
2. ANY STRUCTURAL ELEMENTS SHOWN IN THE PLANS ARE CONCEPTUAL IN NATURE AND HAVE NOT BEEN FULLY DESIGNED.
3. IMPACTS TO WETLANDS ARE ANTICIPATED AND AN ATTEMPT TO MINIMIZE THESE IMPACTS HAS BEEN MADE.
4. THE TOWN HAS REQUESTED THAT THE NEW BRIDGE BE DESIGNED FOR VEHICULAR TRAFFIC AS WELL AS PROVIDE SEASONAL / TEMPORARY BICYCLE AND PEDESTRIAN ACCOMODATION THROUGH THE USE OF REMOVAL (NON-STRUCTURAL) BARRIER. THE BRIDGE WILL BE CONSTRUCTED AS A TWO-LANE BRIDGE WITH 9 FOOT LANES AND 2 FOOT SHOULDERS, HOWEVER IT WILL BE LINE-STRIPED FOR ONE 9 FOOT LANE, 3 FOOT SHOULDERS, AND A 5½ FOOT SIDEWALK. SEE TYPICAL SECTIONS SHEET FOR MORE INFORMATION.

STATE OF VERMONT

AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF BURKE

COUNTY OF CALEDONIA

ROUTE NO : TOWN HIGHWAY 31 (HAYDEN CROSSING ROAD) , CLASS 3 TH

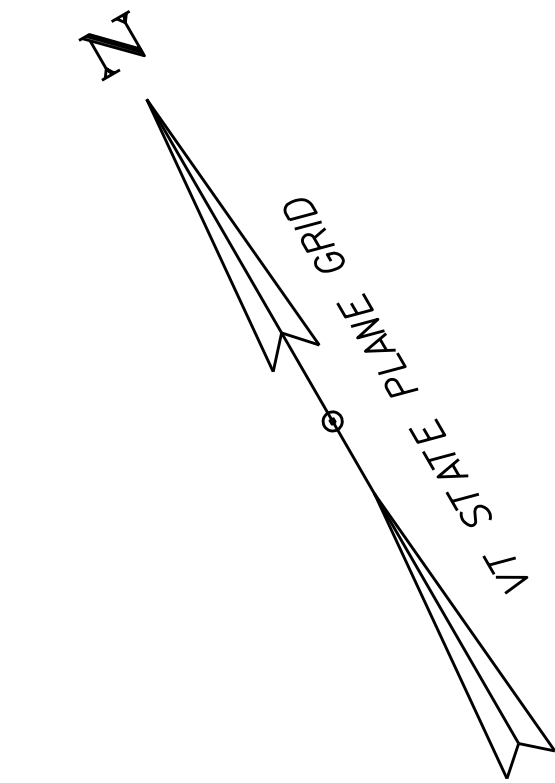
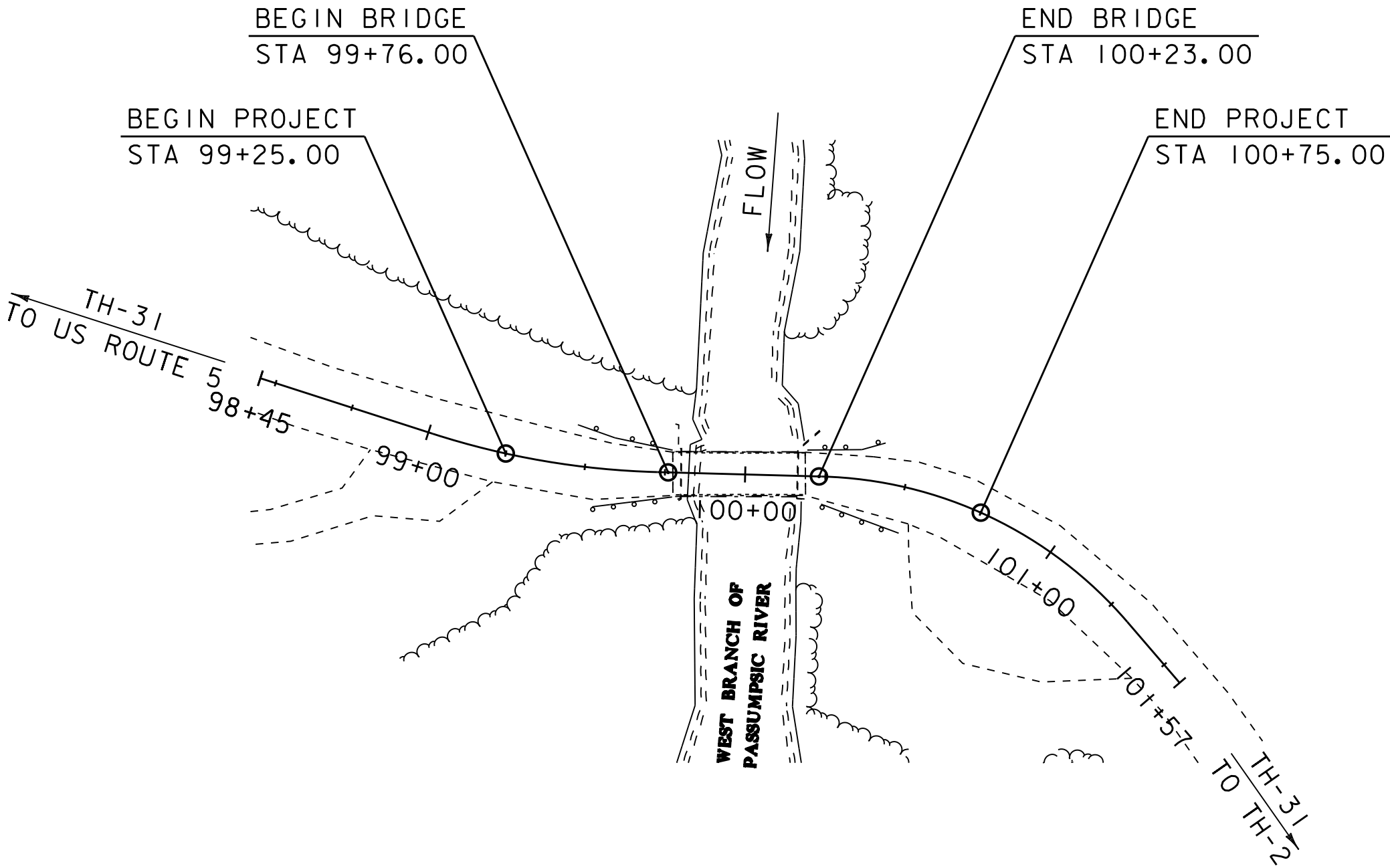
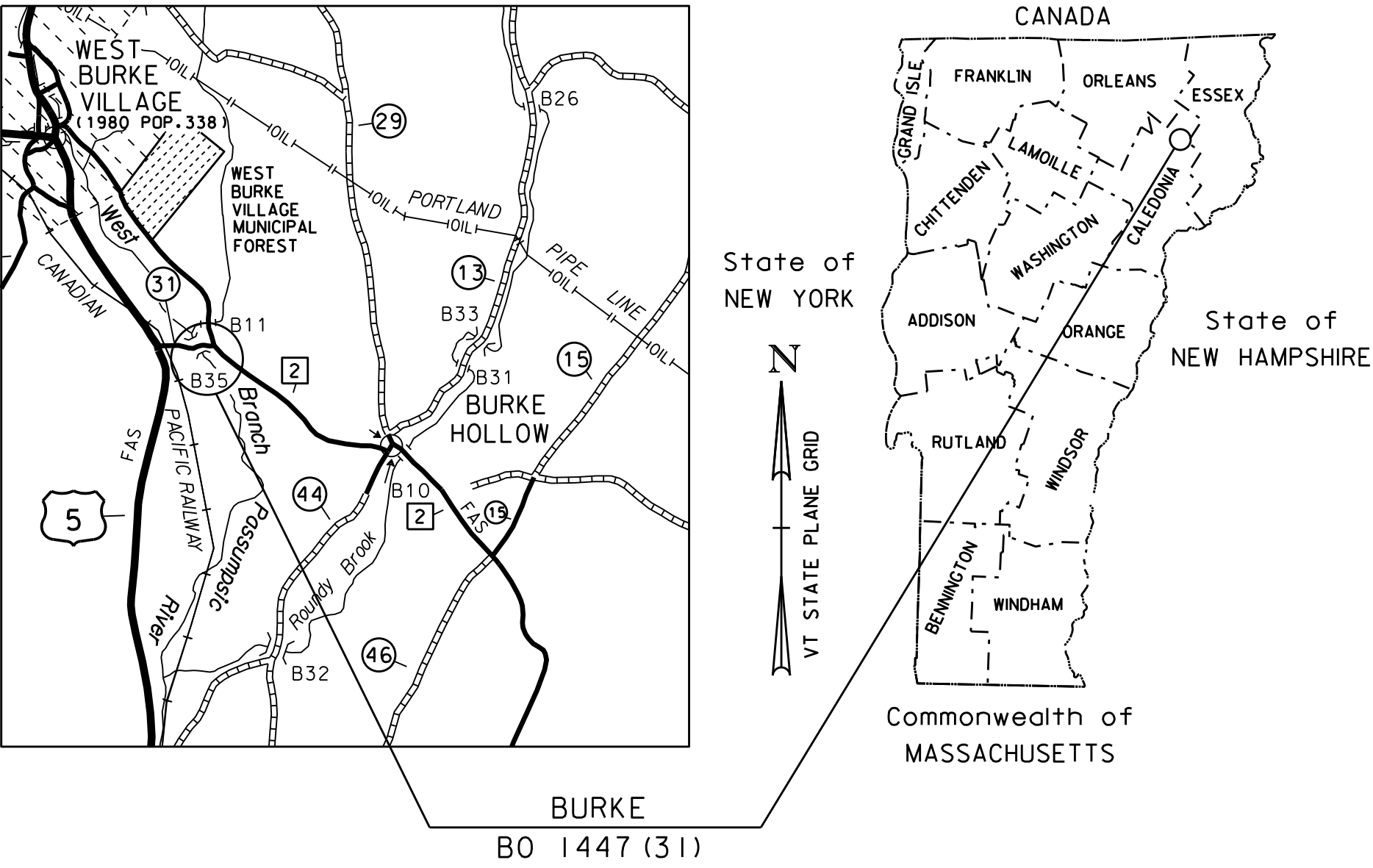
PROJECT LOCATION: LOCATED ON TH 31, BRIDGE 35 OVER THE WEST BRANCH OF THE PASSUMPSIC RIVER, APPROXIMATELY 0.2 MILES EAST OF THE JUNCTION WITH US 5.

PROJECT DESCRIPTION: REPLACEMENT OF EXISTING BRIDGE (BRIDGE No. 35) INCLUDING MINOR APPROACH WORK.

LENGTH OF STRUCTURE: 47.00 FEET (ALONG STATIONING)

LENGTH OF ROADWAY: 103.00 FEET

LENGTH OF PROJECT: 150.00 FEET

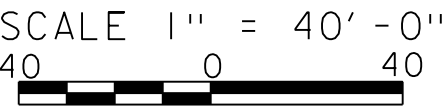


CONCEPTUAL PLANS

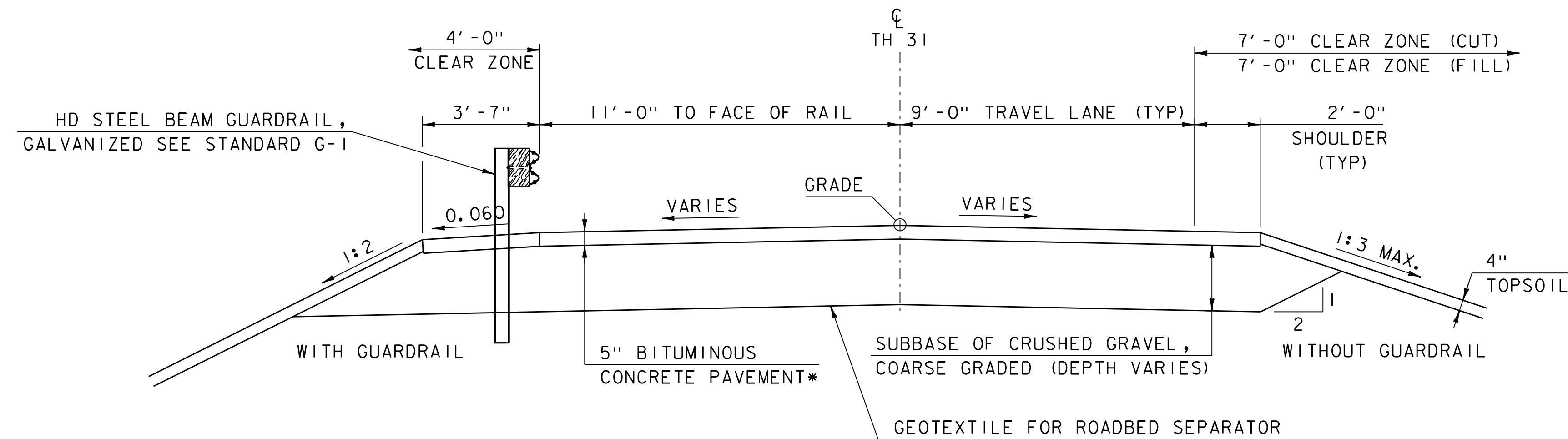
26-FEB-2019

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 :	05/2017
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD 83 (2011)



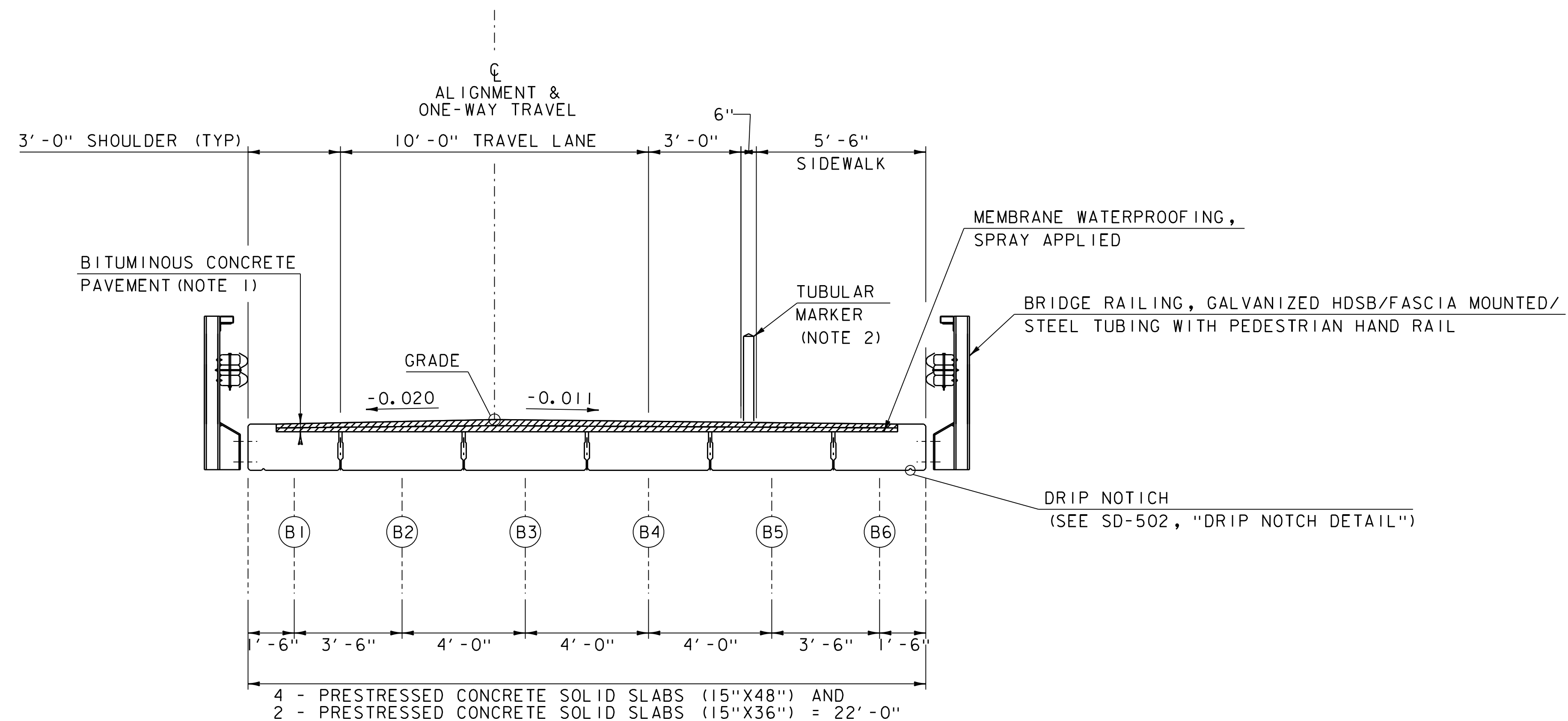
HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : CAROLYN CARLSON, P.E.	
PROJECT NAME : BURKE	
PROJECT NUMBER : BO 1447 (31)	
SHEET 1 OF 13 SHEETS	



TH 31 TYPICAL SECTION
SCALE $\frac{3}{8}" = 1'-0"$

*SPECIAL PROVISION
(BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY):
1½" WEARING COURSE, TYPE IVB
1½" BINDER COURSE, TYPE IVB
2" BASE COURSE, TYPE IIIS

- NOTES:
- PAVEMENT THICKNESS VARIES ACROSS THE BRIDGE WIDTH. FINAL THICKNESS SHALL BE 3 INCHES AT PAVEMENT EDGE AND 4.75 INCHES AT CENTERLINE OF ALIGNMENT, TO CREATE THE SPECIFIED CROSS SLOPES.
 - SPECIAL PROVISION (TUBULAR MARKER) SHALL BE USED AS A REMOVABLE BARRIER TO DELINEATE THE 5'-6" SIDEWALK FOR PEDESTRIAN ACCOMODATIONS WHEN USED AS A ONE-WAY BRIDGE



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

MATERIAL TOLERANCES

(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- ¼"
- AGGREGATE SURFACE COURSE	+/- ½"
SUBBASE	+/- 1"
SAND BORROW	+/- 1"

PROJECT NAME: BURKE
PROJECT NUMBER: BO 1447(31)

FILE NAME: sl2j610typ.dgn
PROJECT LEADER: C. CARLSON
DESIGNED BY: A. FLINN
TYPICAL SECTIONS

PLOT DATE: 26-FEB-2019
DRAWN BY: A. FLINN
CHECKED BY: D. PETERSON
SHEET 3 OF 13

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
■	BDNS	BOUND SET
▣	BDNS	BOUND TO BE SET
◎	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⌘	APL	BOUND APPARENT LOCATION
◻	BM	BENCHMARK
▣	BND	BOUND
▣	CB	CATCH BASIN
⌘	COMB	COMBINATION POLE
▣	DITHR	DROP INLET THROATED DNC
⌘	EL	ELECTRIC POWER POLE
◉	FPOLE	FLAGPOLE
○	GASFIL	GAS FILLER
○	GP	GUIDE POST
⌘	GSO	GAS SHUT OFF
◉	GUY	GUY POLE
◉	GUYW	GUY WIRE
⌘	GV	GATE VALVE
⌘	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
◉	IP	IRON PIN
◉	IPIPE	IRON PIPE
⌘	LI	LIGHT - STREET OR YARD
⌘	MB	MAILBOX
○	MH	MANHOLE (MH)
▣	MM	MILE MARKER
◉	PM	PARKING METER
▣	PMK	PROJECT MARKER
◉	POST	POST STONE/WOOD
⌘	RRSIG	RAILROAD SIGNAL
⌘	RRSL	RAILROAD SWITCH LEVER
⌘	S	TREE SOFTWOOD
⌘	SAT	SATELLITE DISH
⌘	SHRUB	SHRUB
⌘	SIGN	SIGN
⌘	STUMP	STUMP
⌘	TEL	TELEPHONE POLE
◉	TIE	TIE
⌘	TSIGN	SIGN W/DOUBLE POST
⌘	VCTRL	CONTROL VERTICAL
◉	WELL	WELL
⌘	WSO	WATER SHUT OFF

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

PROPOSED GEOMETRY CODES

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
CB	CHORD BEARING

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

— UGU —	UTILITY (GENERIC-UNKNOWN)
— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEPHONE
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)

ABOVE GROUND UTILITIES (AERIAL)

— AGU —	UTILITY (GENERIC-UNKNOWN)
— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEPHONE
—	UTILITY POLE GUY WIRE

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

— — — CZ — — —	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△ — △ — △ — △	TOP OF CUT SLOPE
○ — ○ — ○ — ○	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH
=====	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF — PDF —	PROJECT DEMARCATION FENCE
BF — — — BF — — —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxx	TREE PROTECTION ZONE (TPZ)
//////////	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLGY

BOUNDARY LINES

————— TOWN LINE —————	TOWN BOUNDARY LINE
————— COUNTY LINE —————	COUNTY BOUNDARY LINE
————— STATE LINE —————	STATE BOUNDARY LINE
——— ——— ——— ———	PROPOSED STATE R.O.W. (LIMITED ACCESS)
——— ——— ——— ———	PROPOSED STATE R.O.W.
——— ——— ——— ———	STATE ROW (LIMITED ACCESS)
——— ——— ——— ———	STATE ROW
——— ——— ——— ———	TOWN ROW
— — — — —	PERMANENT EASEMENT LINE (P)
— — — — —	TEMPORARY EASEMENT LINE (T)
— — — — —	SURVEY LINE
— P — — — — — P —	PROPERTY LINE (P/L)
— L — — — — — L —	
△ — SR — ○ — SR — △ — SR — ○ —	SLOPE RIGHTS
6f ————— 6f —————	6F PROPERTY BOUNDARY
4f ————— 4f —————	4F PROPERTY BOUNDARY
HAZ ————— HAZ —————	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLGY

EPSC MEASURES

ONNOONNOONNO	FILTER CURTAIN
▣	SILT FENCE
▣ × × × × ×	SILT FENCE WOVEN WIRE
▶ —▶ —▶ —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
▣	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

ENVIRONMENTAL RESOURCES

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

ARCHEOLOGICAL & HISTORIC

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

CONVENTIONAL TOPOGRAPHIC SYMBOLGY

EXISTING FEATURES

-----	ROAD EDGE PAVEMENT
-----	ROAD EDGE GRAVEL
-----	DRIVEWAY EDGE
-----	DITCH
—————	FOUNDATION
× — × — × — × —	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: BURKE

PROJECT NUMBER: BO 1447(31)

FILE NAME: sl2j6iofrm.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: A. FLINN  
CONVENTIONAL SYMBOLGY

PLOT DATE: 26-FEB-2019  
DRAWN BY: A. FLINN  
CHECKED BY: D. PETERSON  
SHEET 4 OF 13



NETWORK CONTROL

HVCTRL #1  
PATOINE  
NORTH = 777156.1020  
EAST = 1777564.9800  
ELEV. = 905.3800

GENERAL LOCATION, BURKE VT

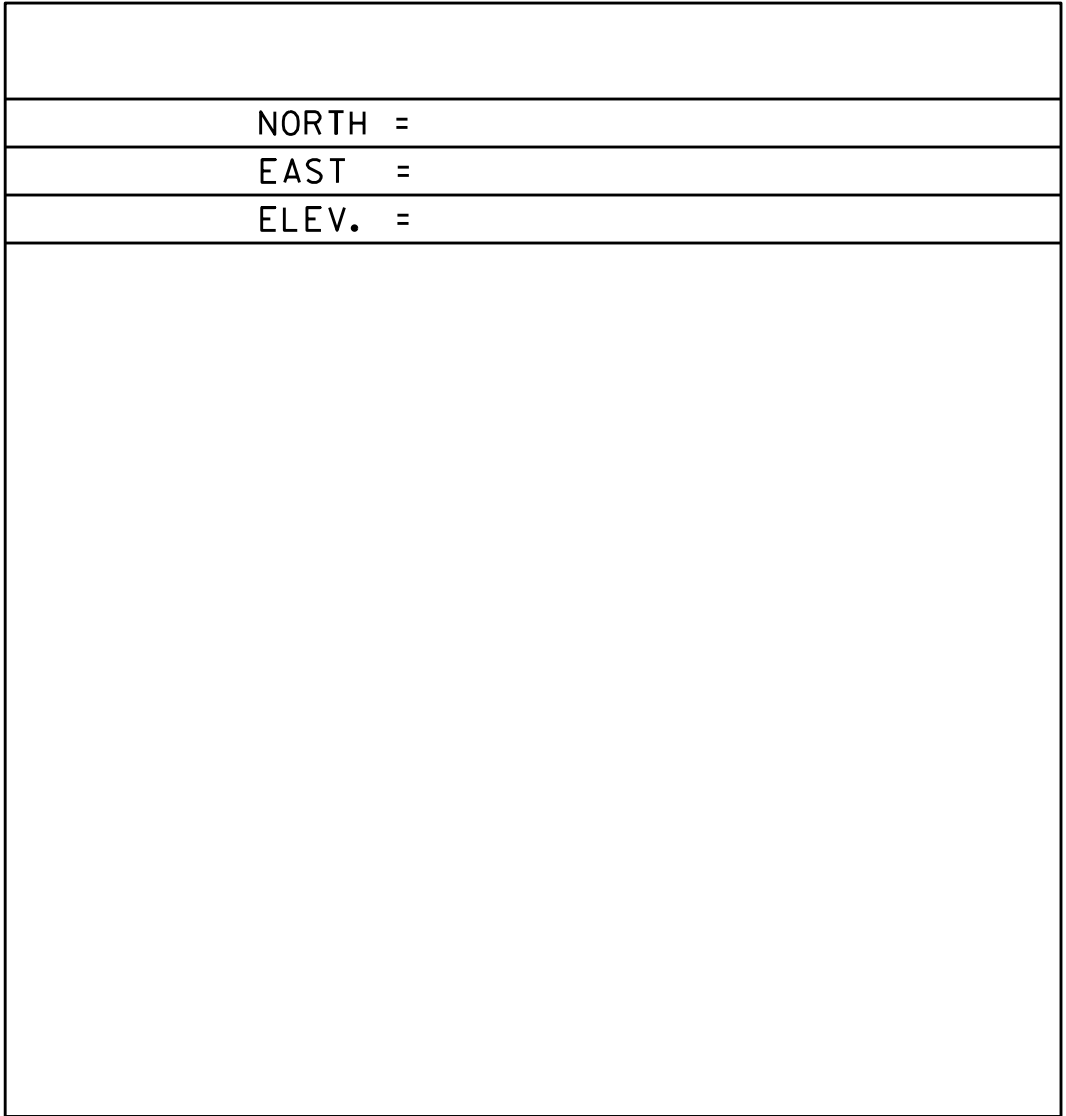
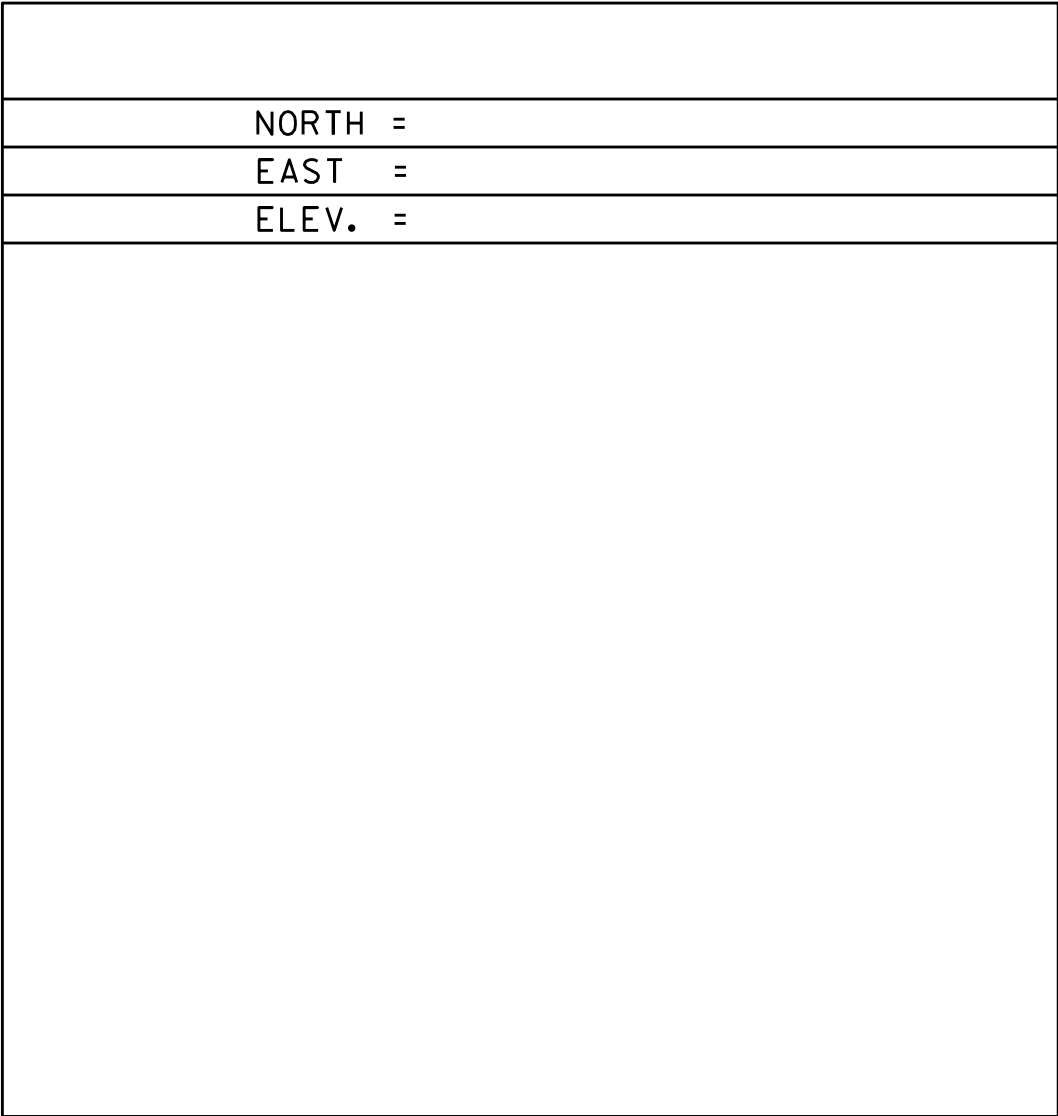
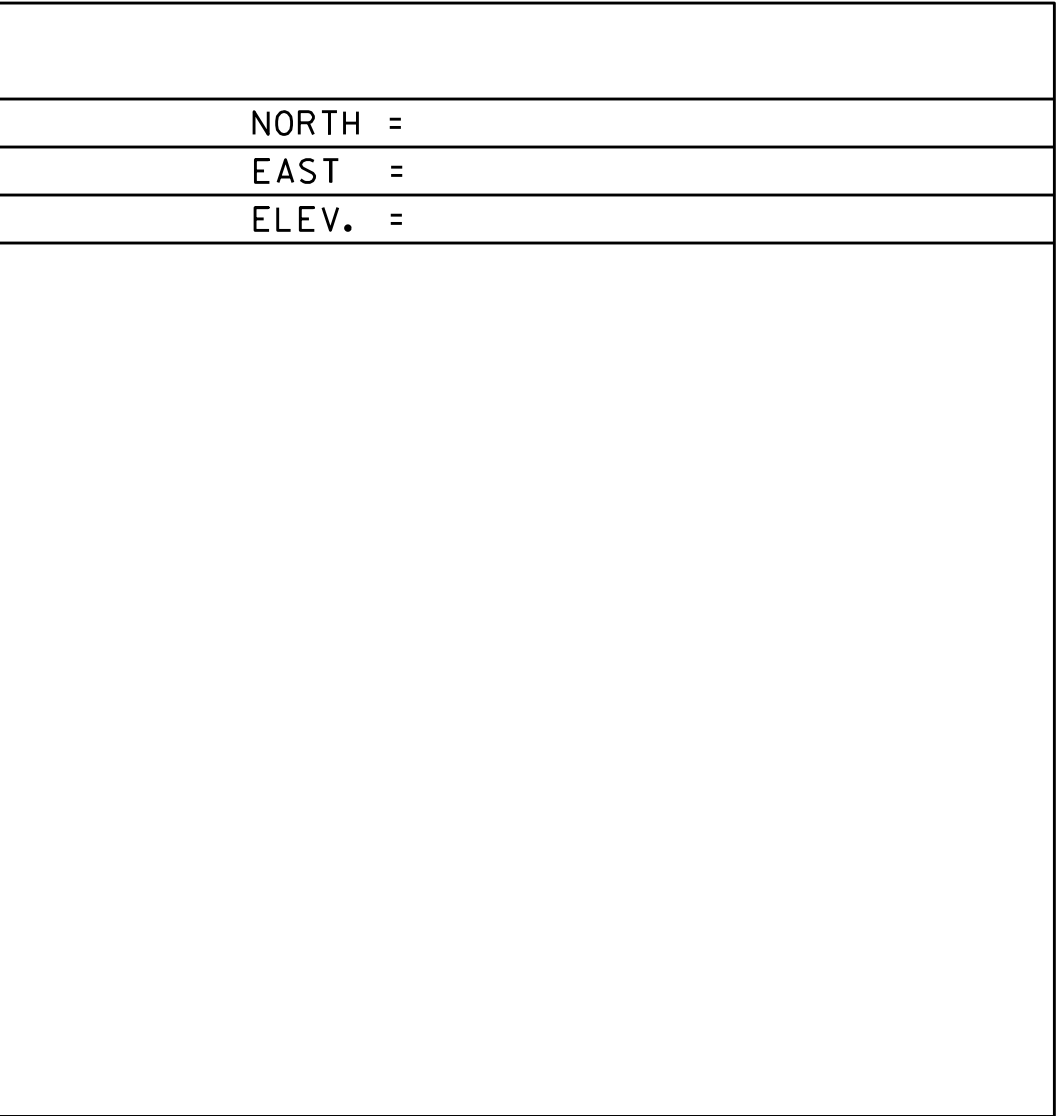
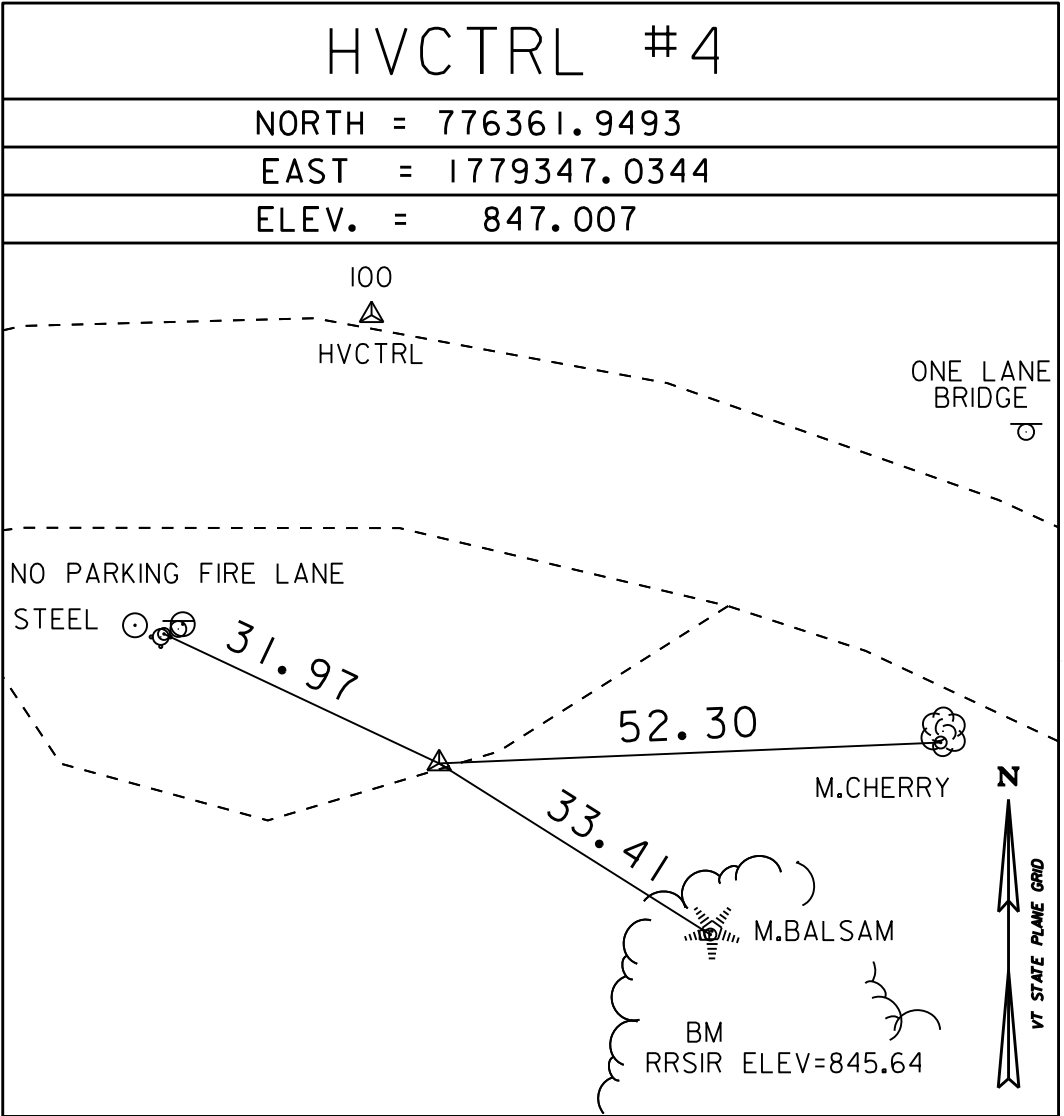
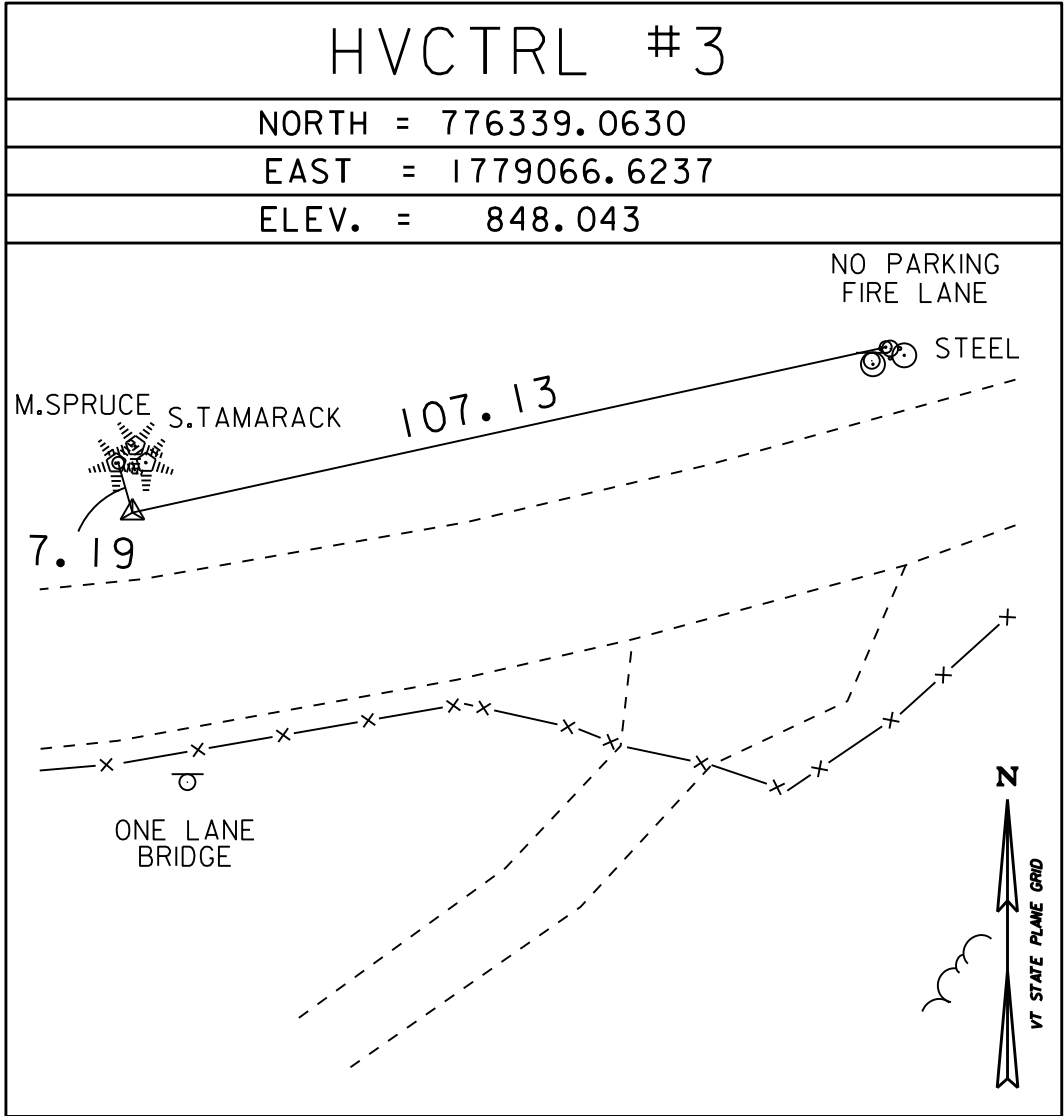
THE MARK IS SET 1 INCH BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT DRIVEN IN A BERM COMPRISED OF BALLAST AND EARTH. IT IS 36.7 FT WEST OF AND 1.3 FT HIGHER THAN THE CENTERLINE OF US ROUTE 5, 20.3 FT SW OF THE WASHINGTON COUNTY RAILROAD SW RAIL, 16.7 FT NORTH OF THE EASTERLY POST FOR THE WEST BURKE GRAVEL PIT SIGN, 90.2 FT NNW OF THE CENTERLINE OF A GATED GRAVEL DRIVE LEADING TO THE GRAVEL PIT, AND 0.7 FT SW OF A FIBERGLASS WITNESS POST.

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PATOINE AZ MK  
NORTH = 776311.5140  
EAST = 1778805.7100  
ELEV. = 877.8720

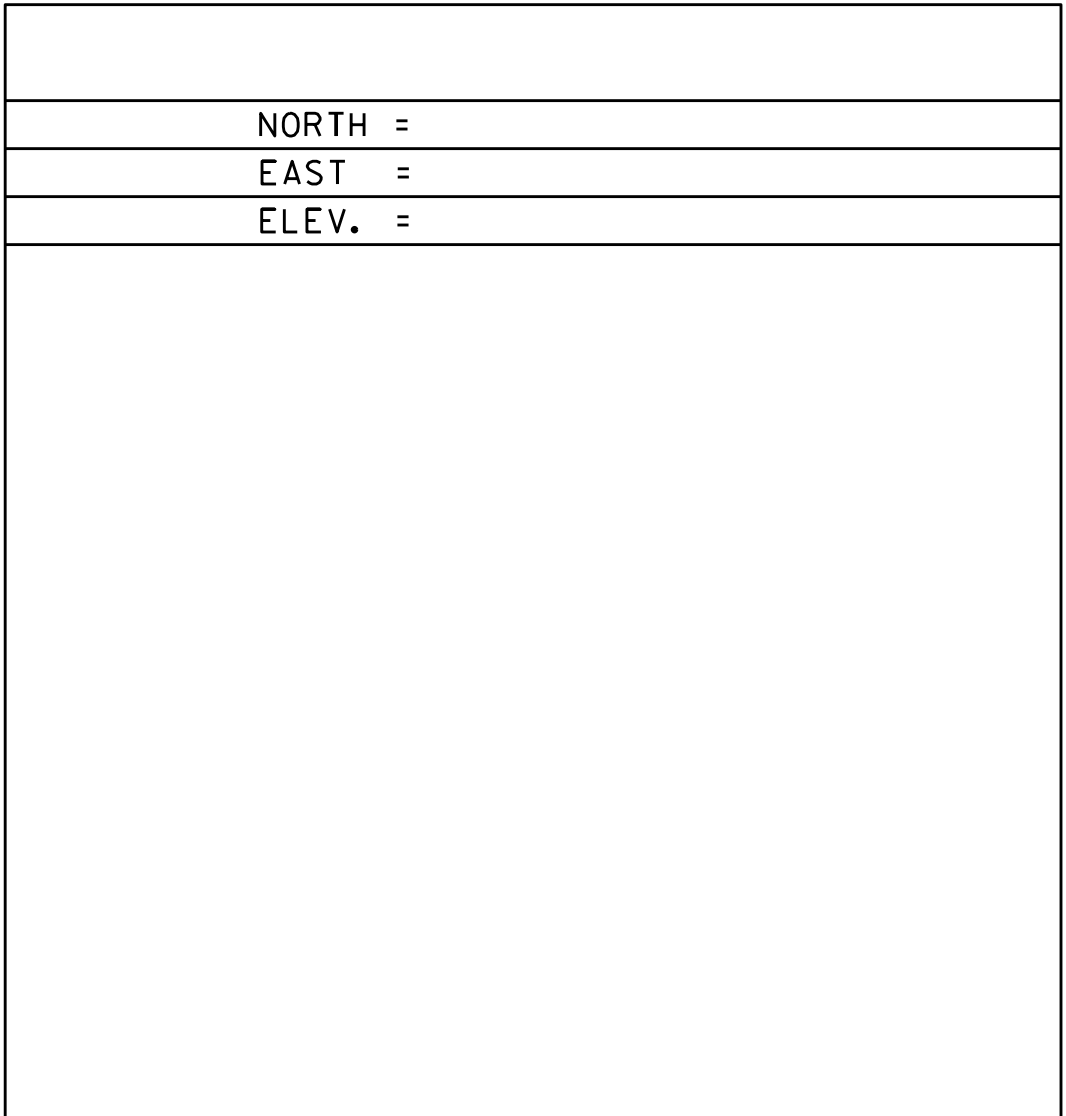
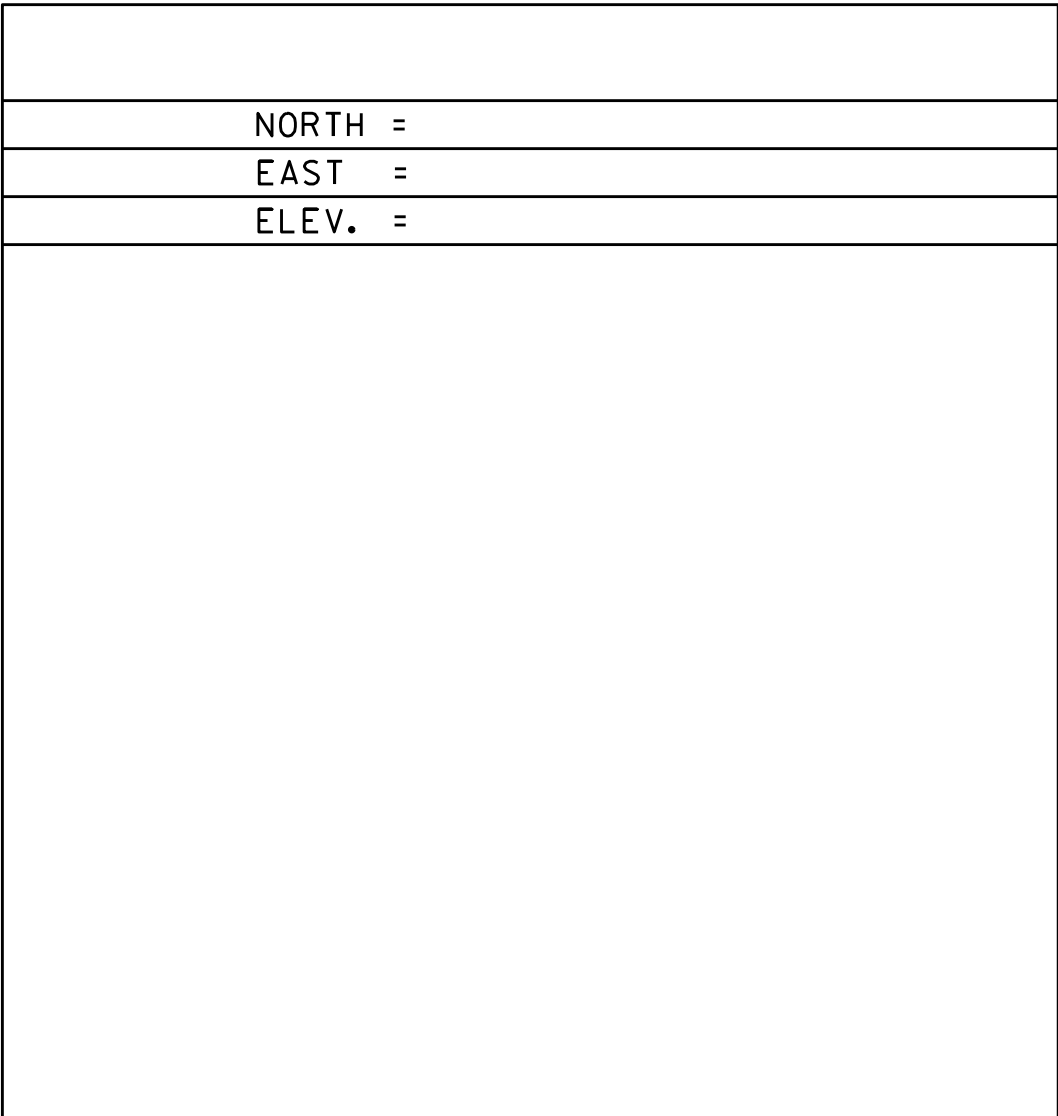
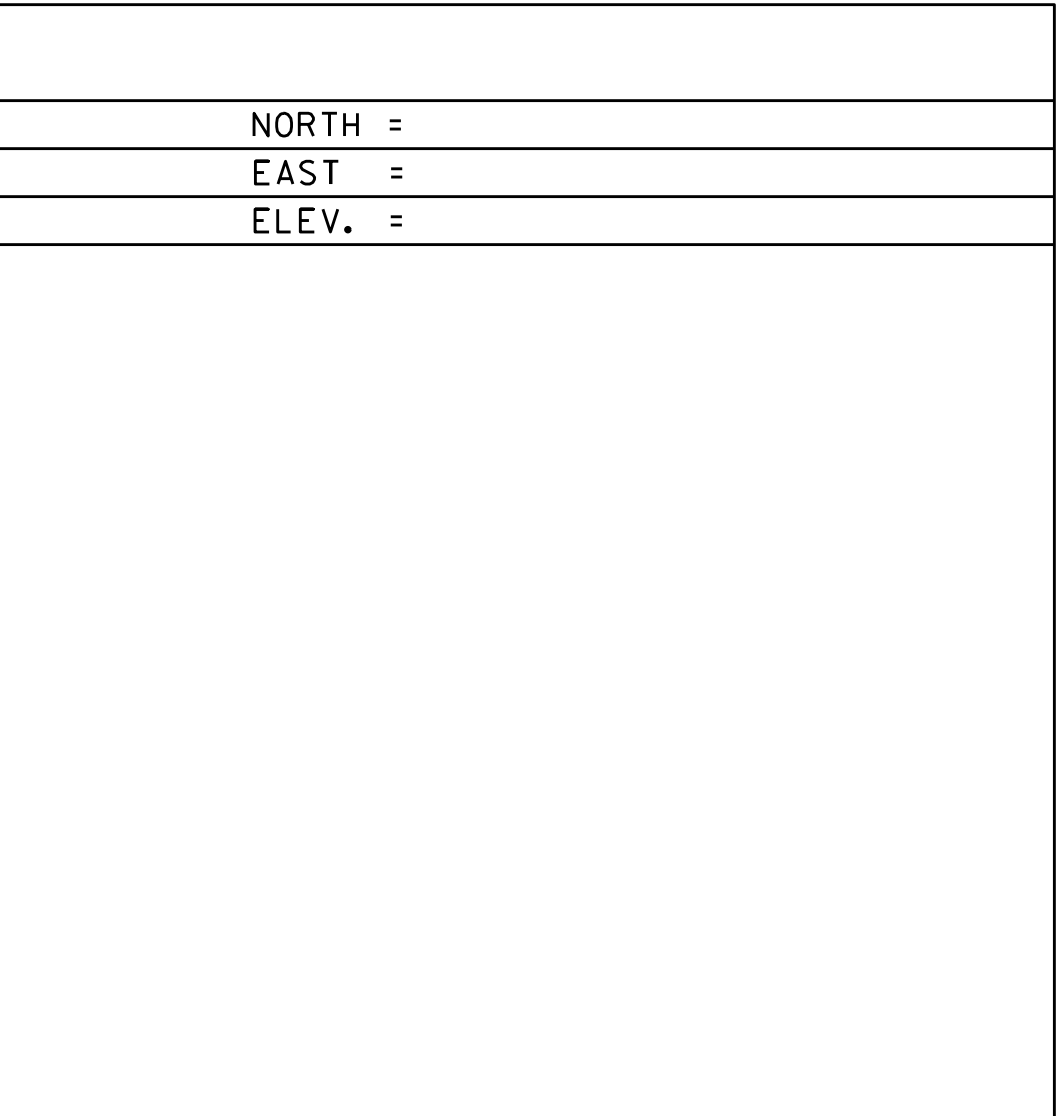
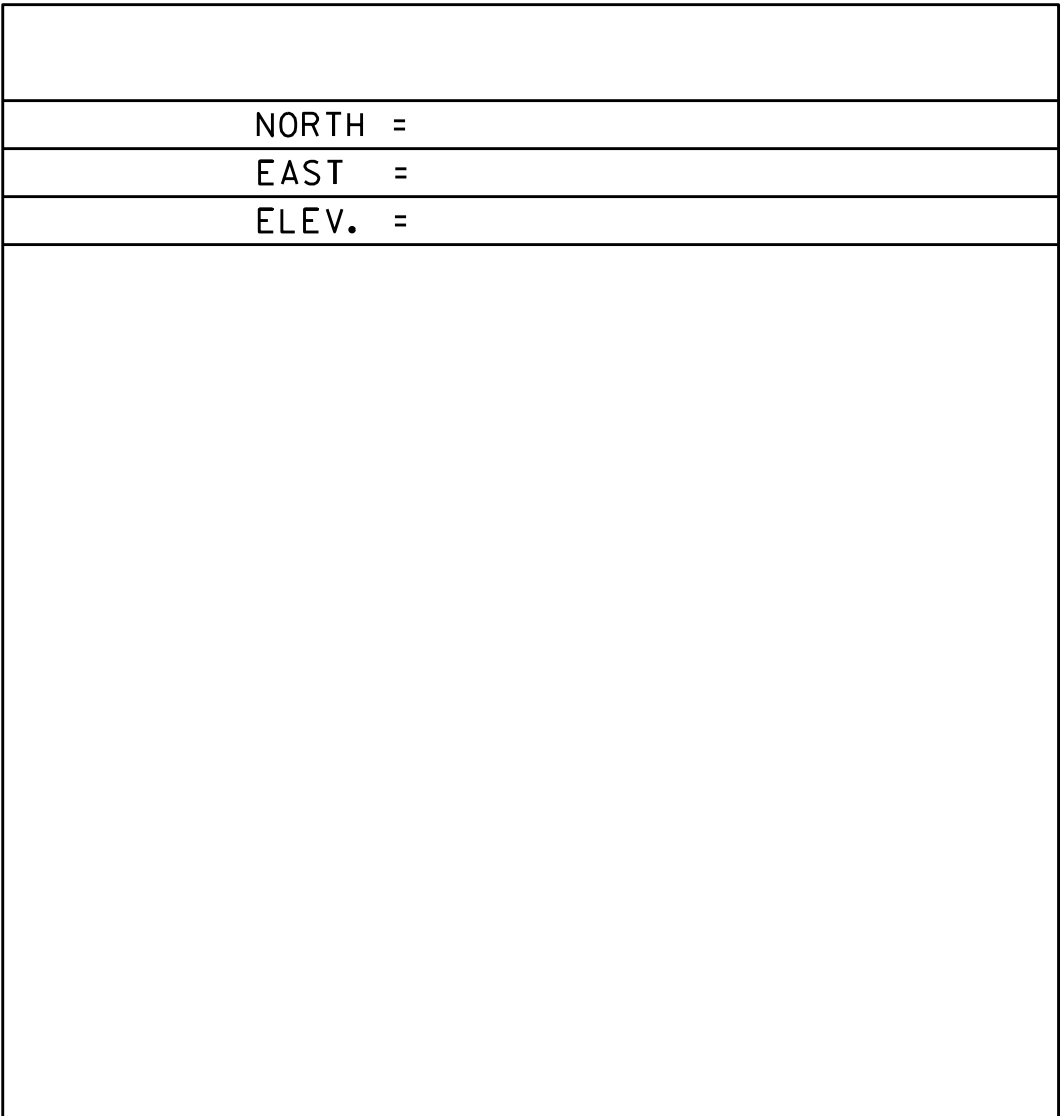
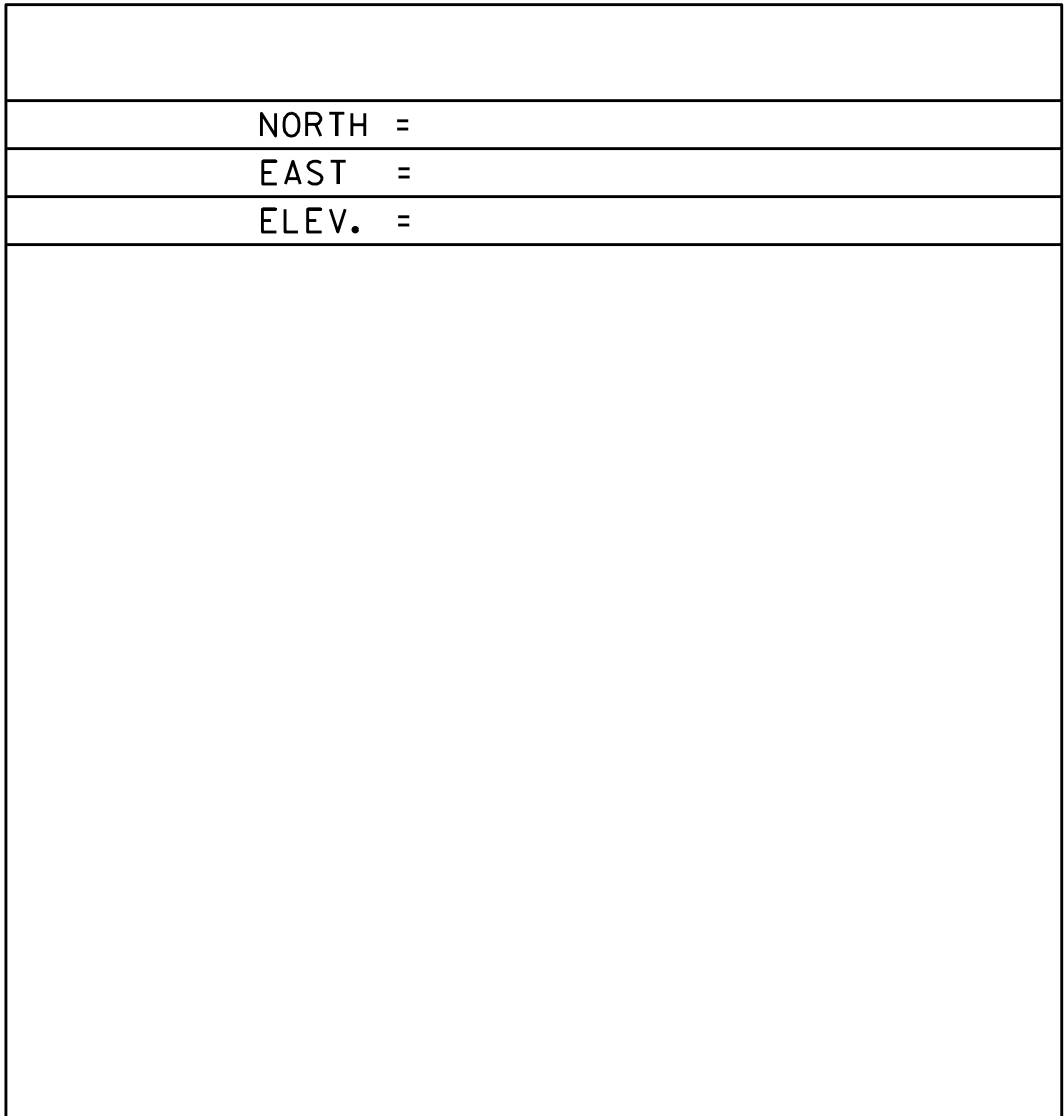
GENERAL LOCATION, BURKE VT

THE MARK IS SET 3 INCHES BELOW GROUND SURFACE IN THE TOP OF A FENO STYLE MONUMENT. IT IS 14.8 FT SOUTH OF AND 0.3 FT HIGHER THAN THE CENTERLINE OF HAYDEN CROSSING ROAD, 49.2 FT NNE OF THE NORTHEAST CORNER OF A 3BAY GARAGE, 54.1 FT SOUTHWEST OF AND ACROSS THE ROAD FROM POLE NO 5/5/48/3, 34.4 FT SOUTH OF AND ACROSS THE ROAD FROM THE EAST POST OF A GATE LEADING TO A HORSE THE PASTURE AND 4.6 FT OF A WOODEN FENCE POST AND A FIBERGLASS WITNESS POST.

LOCAL CONTROL



LOCAL CONTROL

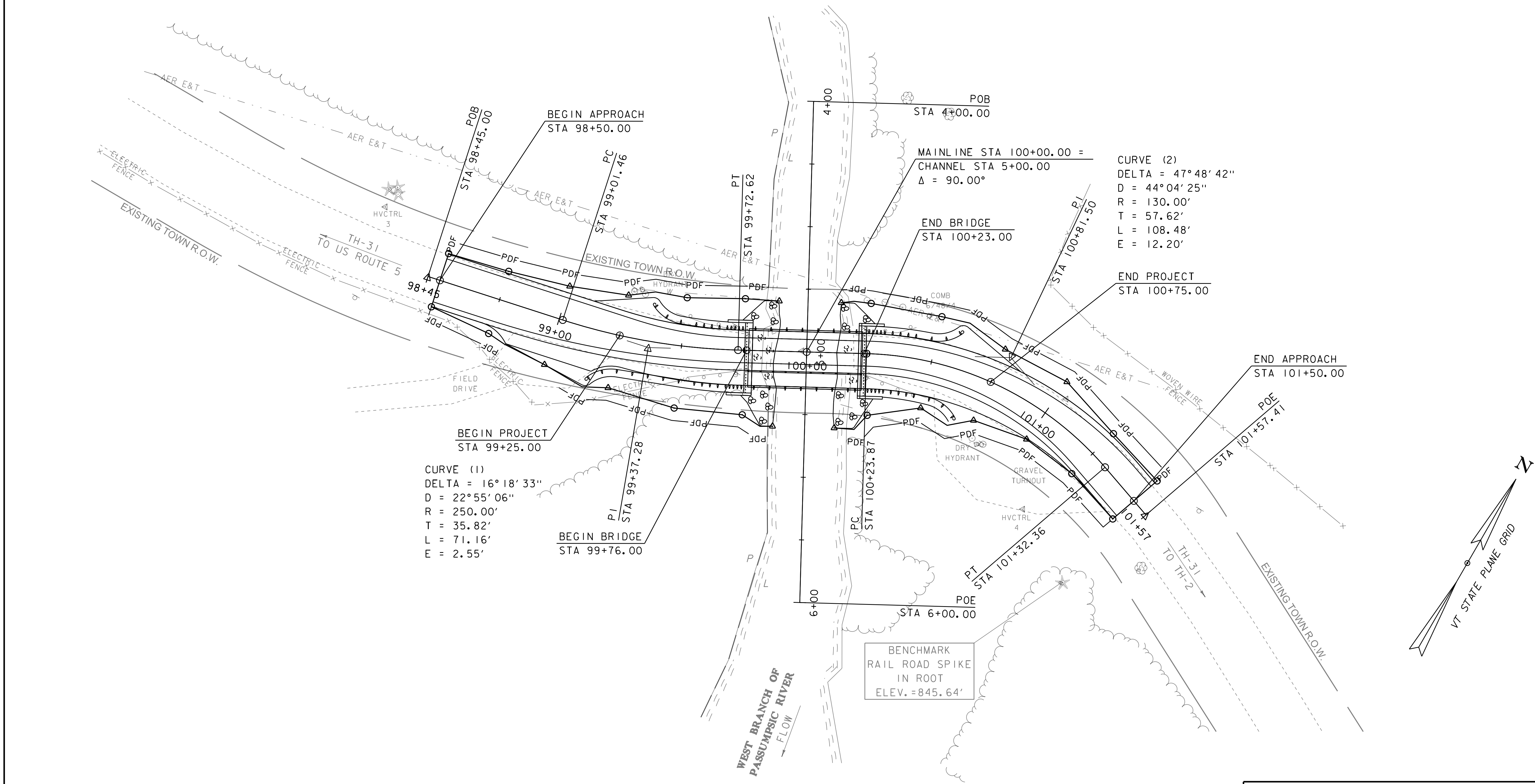


DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83(2011)
ADJUSTMENT	COMPASS

PROJECT NAME:	BURKE	PLOT DATE:	26-FEB-2019
PROJECT NUMBER:	BO 1447(31)	DRAWN BY:	C. CYR
FILE NAME:	X12J6101.DGN	CHECKED BY:	G. HITCHCOCK
PROJECT LEADER:	L. STONE	SHEET	5 OF 13
DESIGNED BY:	VTRANS		
TIE SHEET			



EXISTING BRIDGE INFORMATION  
42' SPAN ROLLED THRU BEAM  
CAST IN PLACE DECK  
BUILT 1919, RECONSTRUCTED 1951  
CLOSED 2013  
DUE TO FLOORBEAM FAILURES



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

PROJECT NAME: BURKE  
PROJECT NUMBER: BO 1447(31)

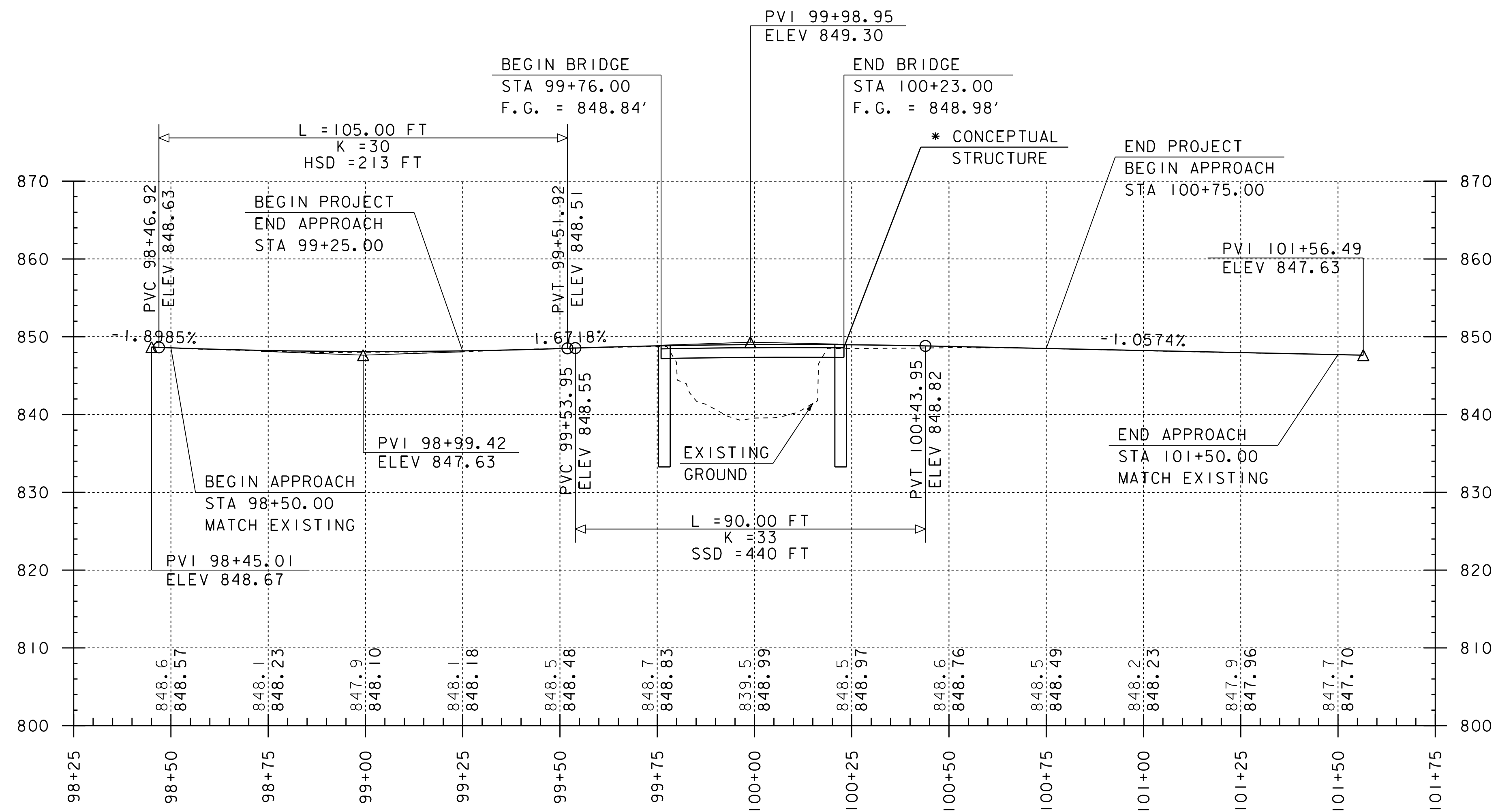
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PROJECT LEADER: C. CARLSON  
DESIGNED BY: A. FLINN  
PLAN SHEET

PLOT DATE: 26-FEB-2019  
DRAWN BY: A. FLINN  
CHECKED BY: D. PETERSON  
SHEET 6 OF 13





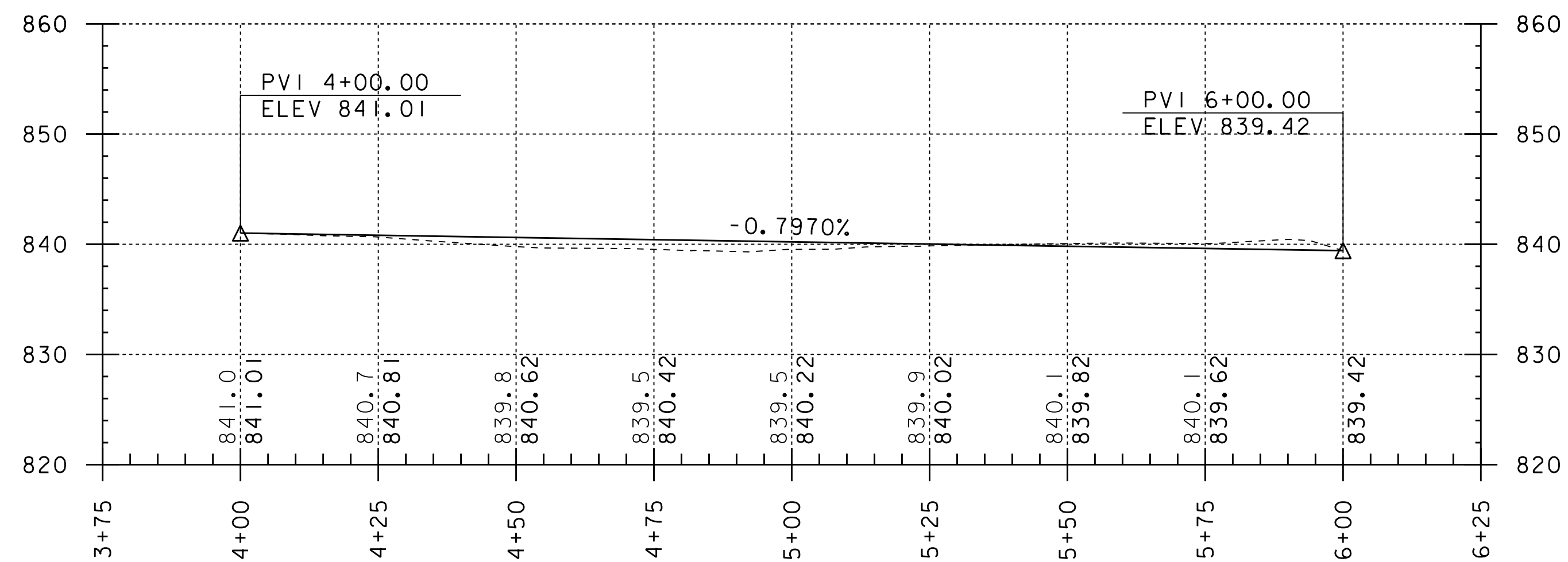




* STRUCTURE SHOWN IS CONCEPTUAL IN NATURE AND HAS NOT BEEN FULLY DESIGNED. PROFILE SHOWN WITH 15" DEEP PRESTRESSED SOLID SLABS AND 4.75" OF PAVEMENT TO REPRESENT PAVEMENT THICKNESS AT CENTERLINE OF ALIGNMENT

## BURKE TH-31 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

## CHANNEL PROFILE

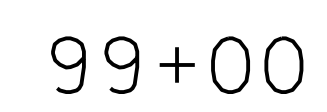
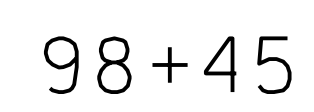
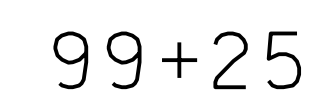
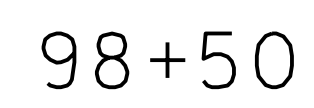
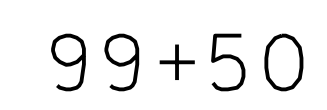
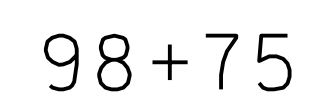
SCALE: HORIZONTAL 1"=20' -0"  
VERTICAL 1"=10' -0"

PROJECT NAME: BURKE  
PROJECT NUMBER: BO 1447(31)

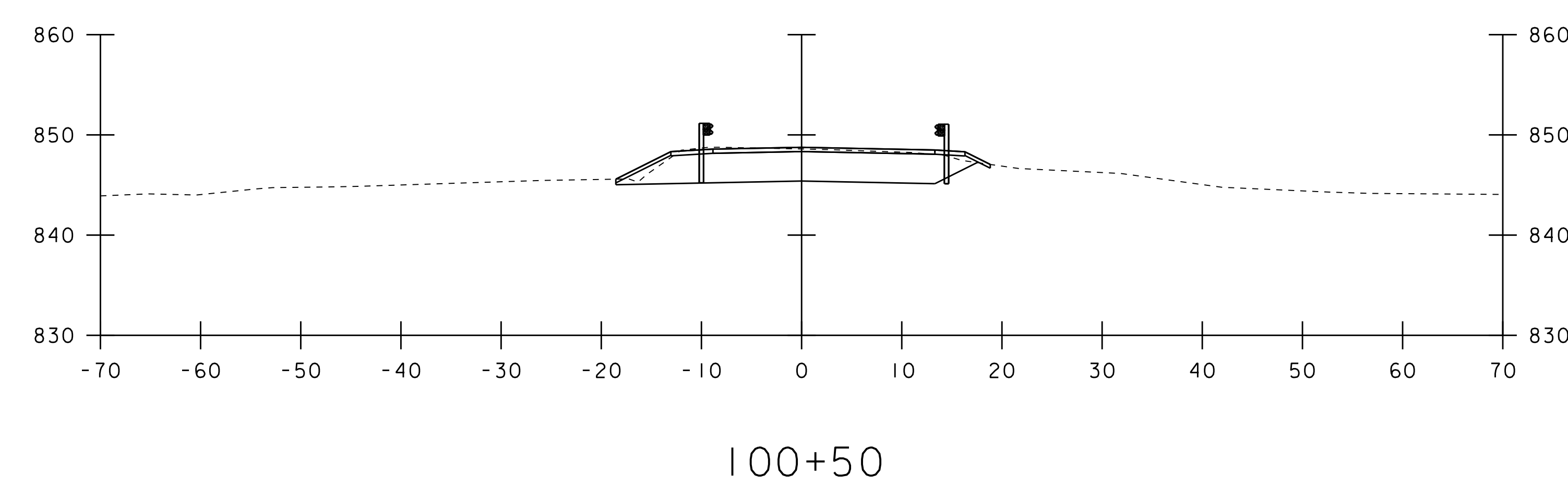
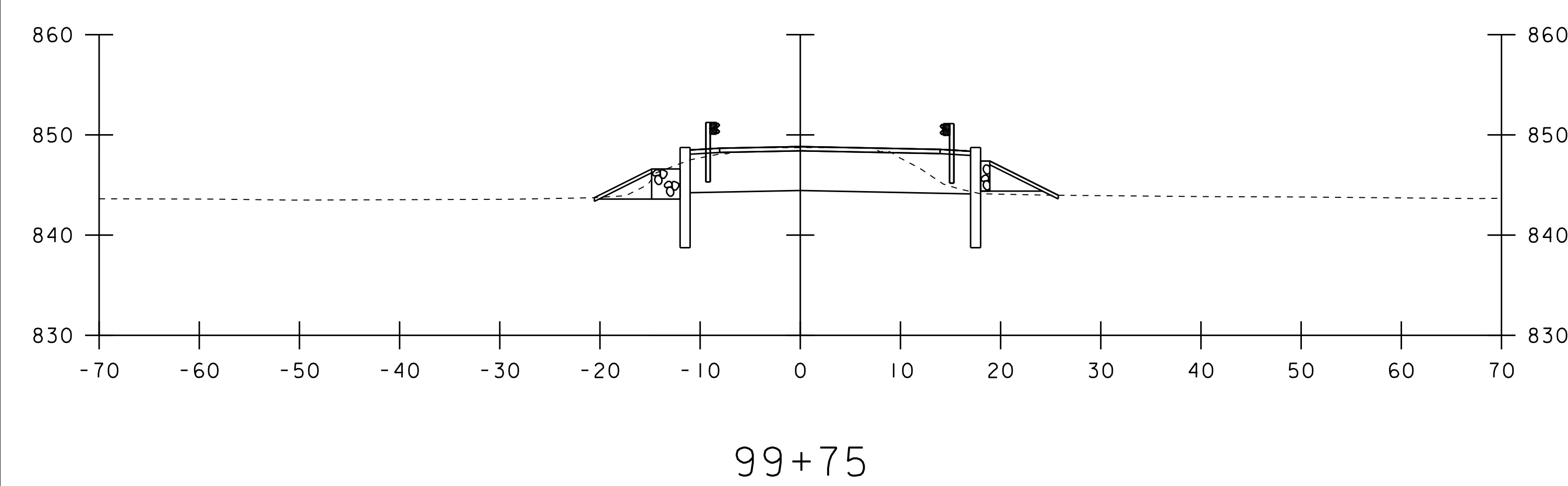
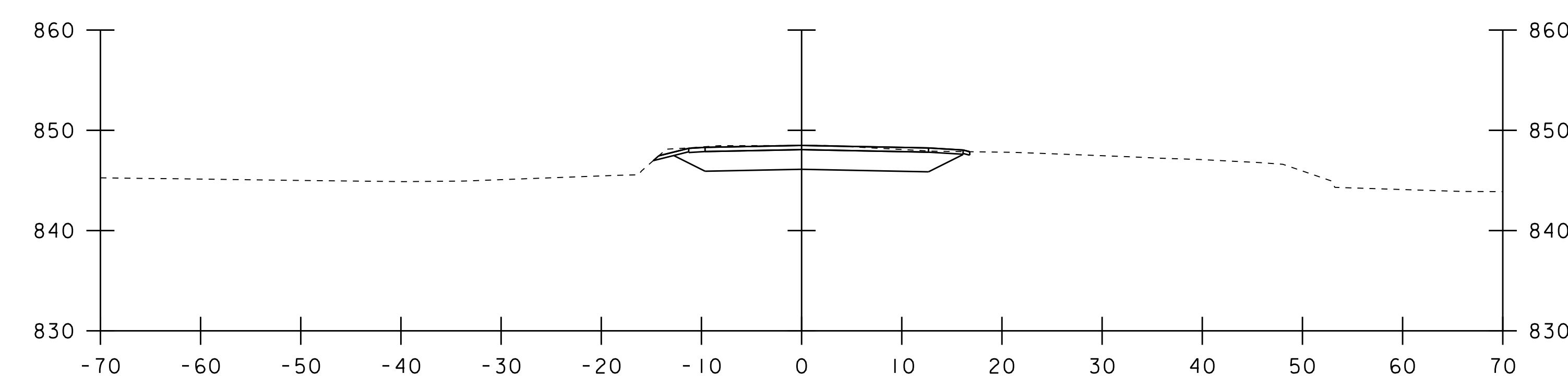
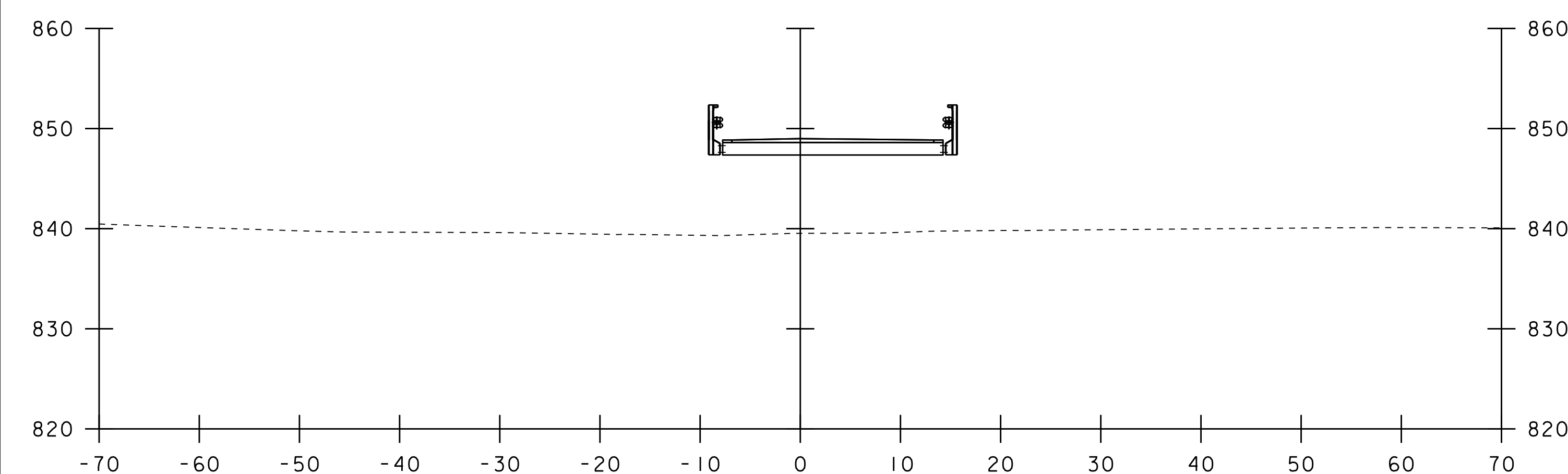
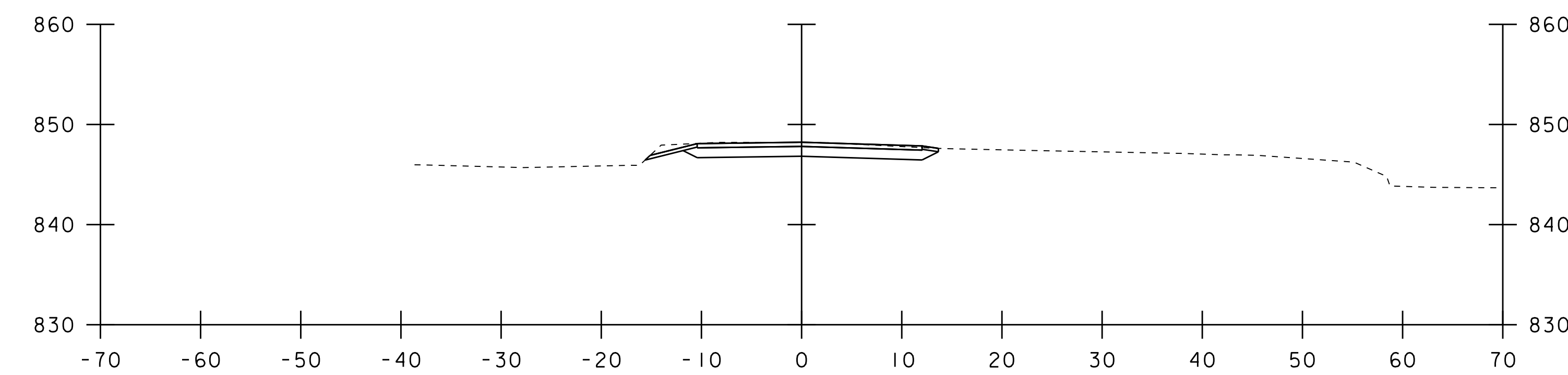
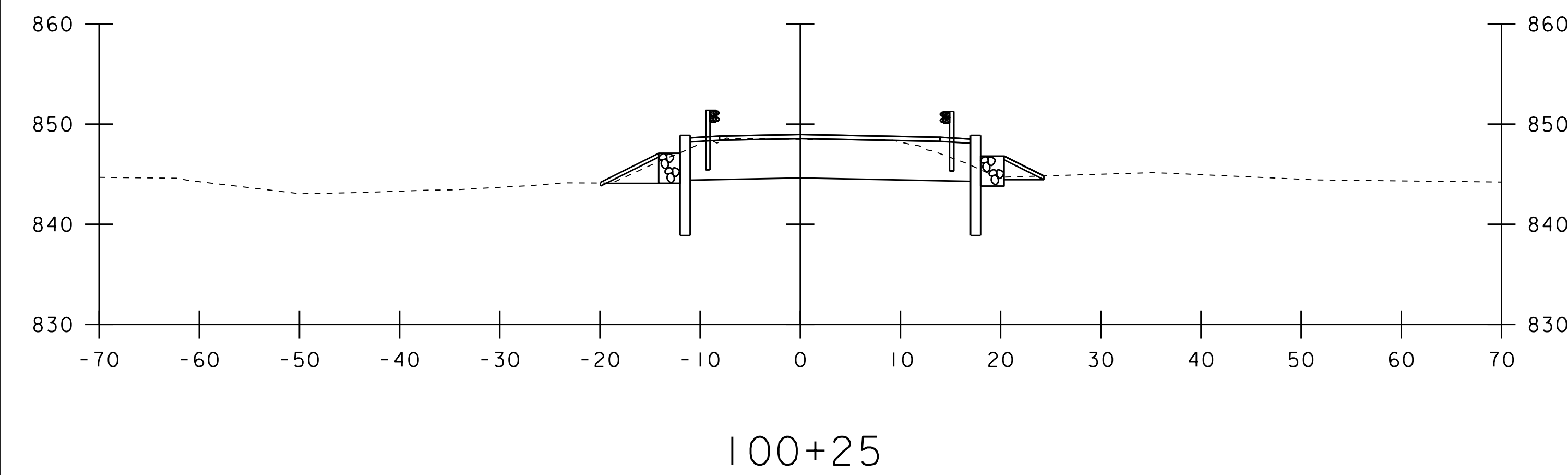
FILE NAME: sl2j610profile.dgn  
PROJECT LEADER: C. CARLSON  
DESIGNED BY: A. FLINN  
PROFILE SHEET

PLOT DATE: 26-FEB-2019  
DRAWN BY: A. FLINN  
CHECKED BY: D. PETERSON  
SHEET 8 OF 13





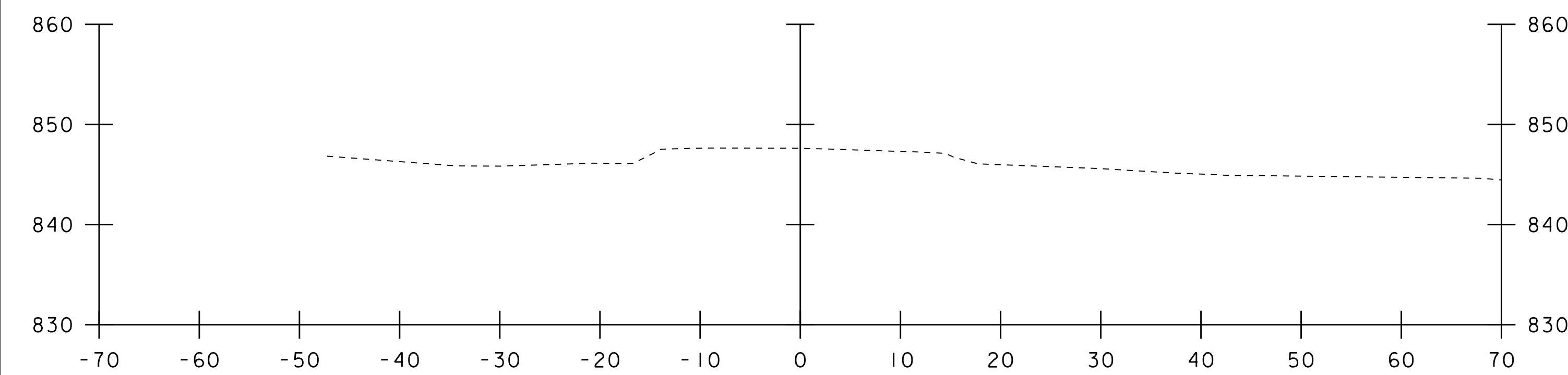




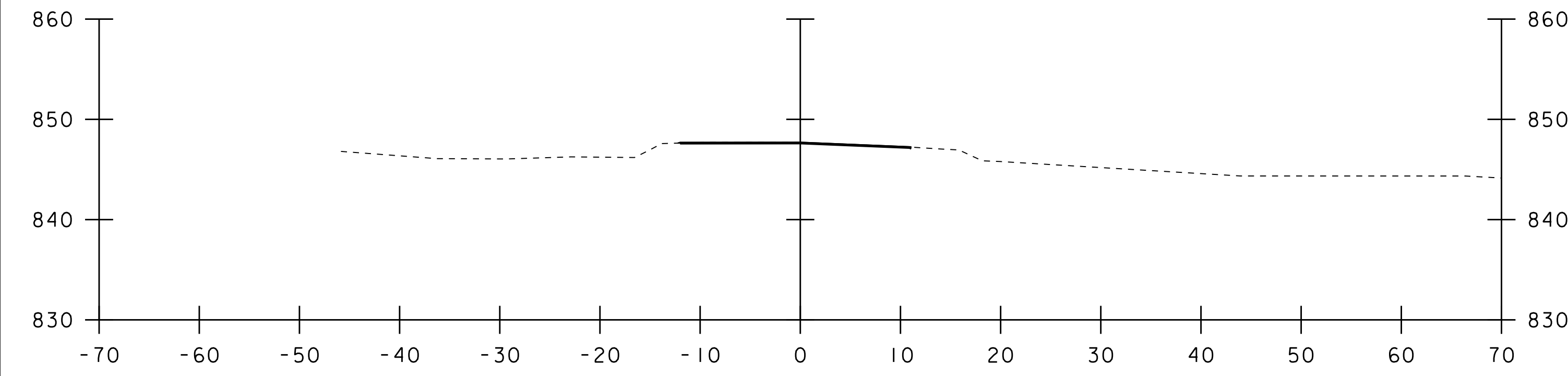
STA. 99+75 TO STA. 101+00

PROJECT NAME: BURKE	
PROJECT NUMBER: BO 1447(31)	
FILE NAME: sl2j610xs.dgn	PLOT DATE: 26-FEB-2019
PROJECT LEADER: C. CARLSON	DRAWN BY: A. FLINN
DESIGNED BY: A. FLINN	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS SHEET 2	SHEET 10 OF 13

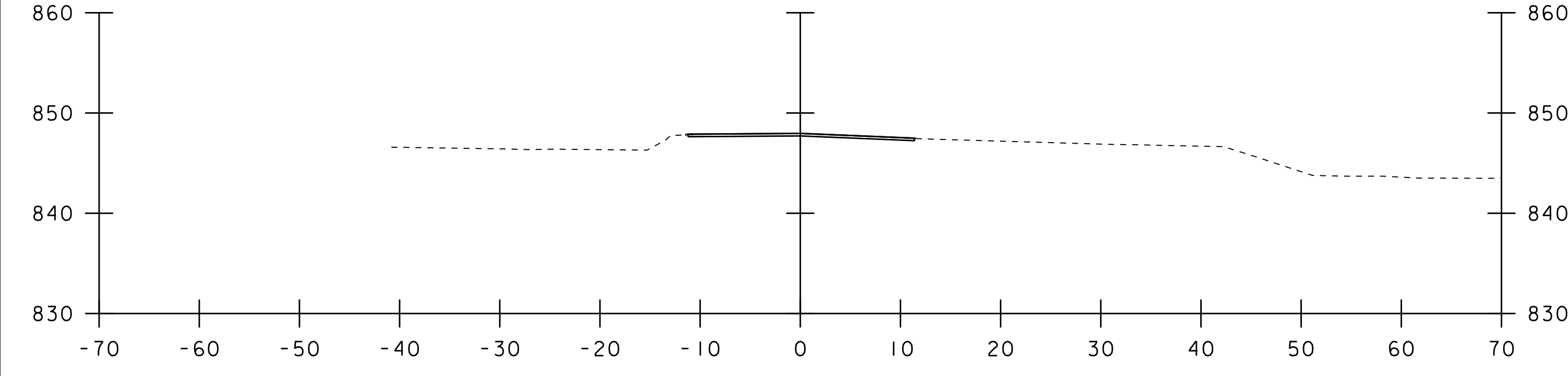




101+57



101+50

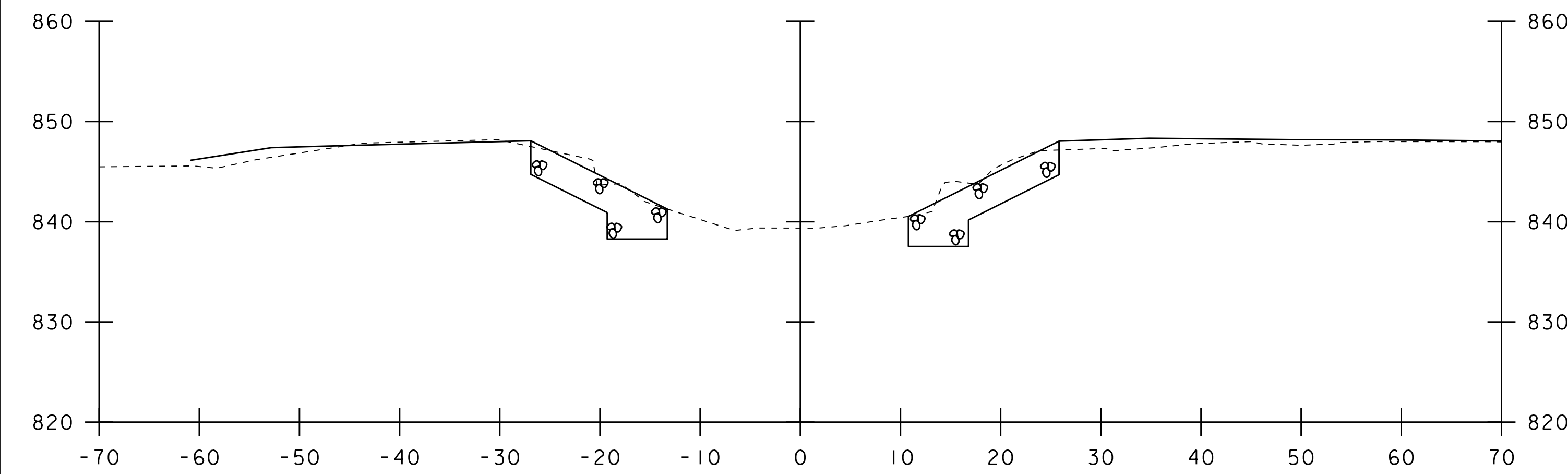


101+25

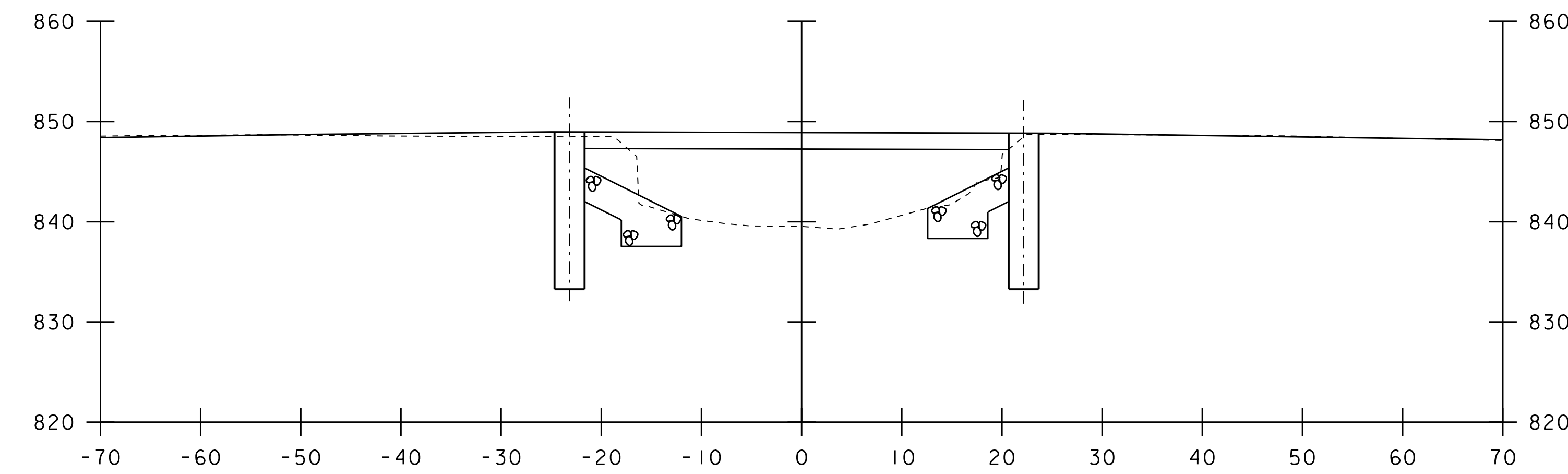
STA. 101+25 TO STA. 101+57

PROJECT NAME: BURKE	
PROJECT NUMBER: BO 1447(31)	
FILE NAME: sl2j610xs.dgn	PLOT DATE: 26-FEB-2019
PROJECT LEADER: C. CARLSON	DRAWN BY: A. FLINN
DESIGNED BY: A. FLINN	CHECKED BY: D. PETERSON
ROADWAY CROSS SECTIONS SHEET 3	SHEET 11 OF 13

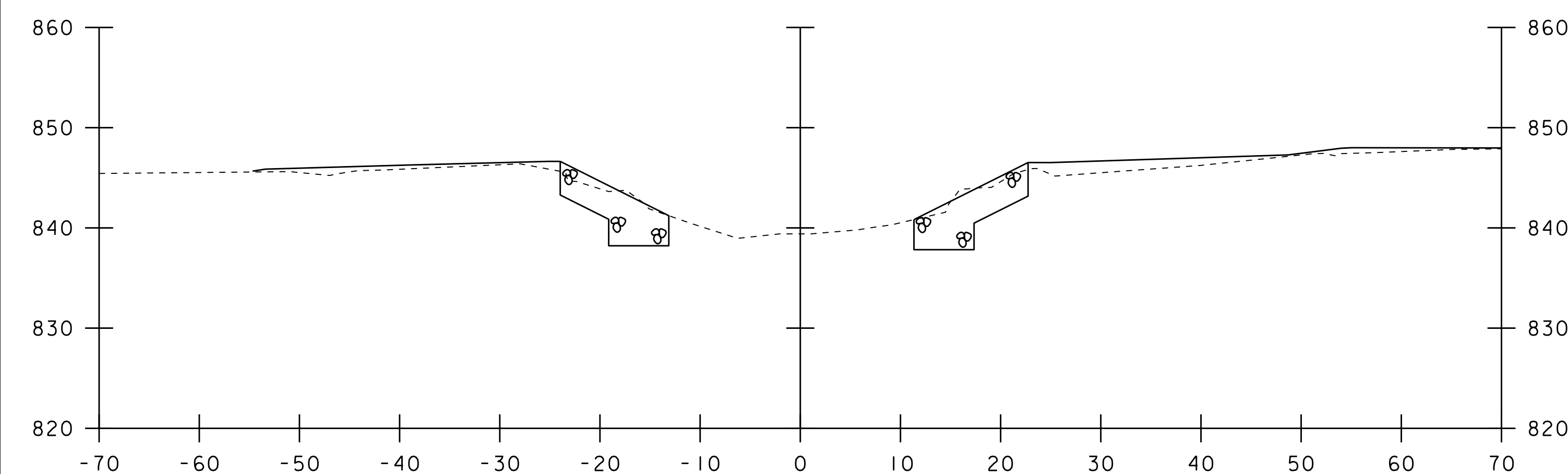




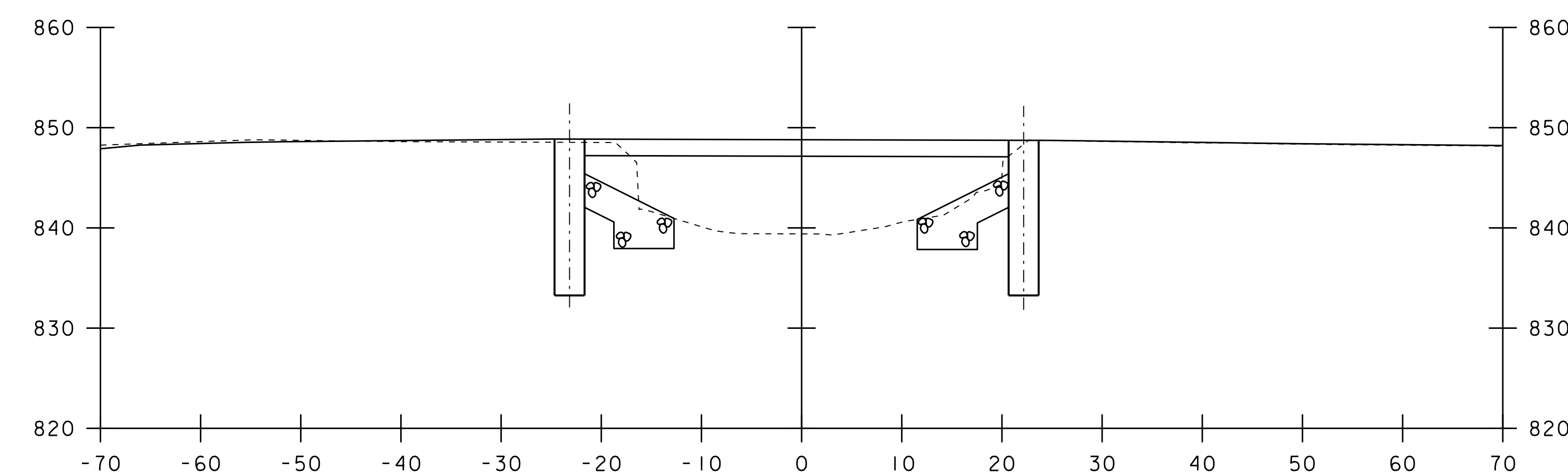
4+88



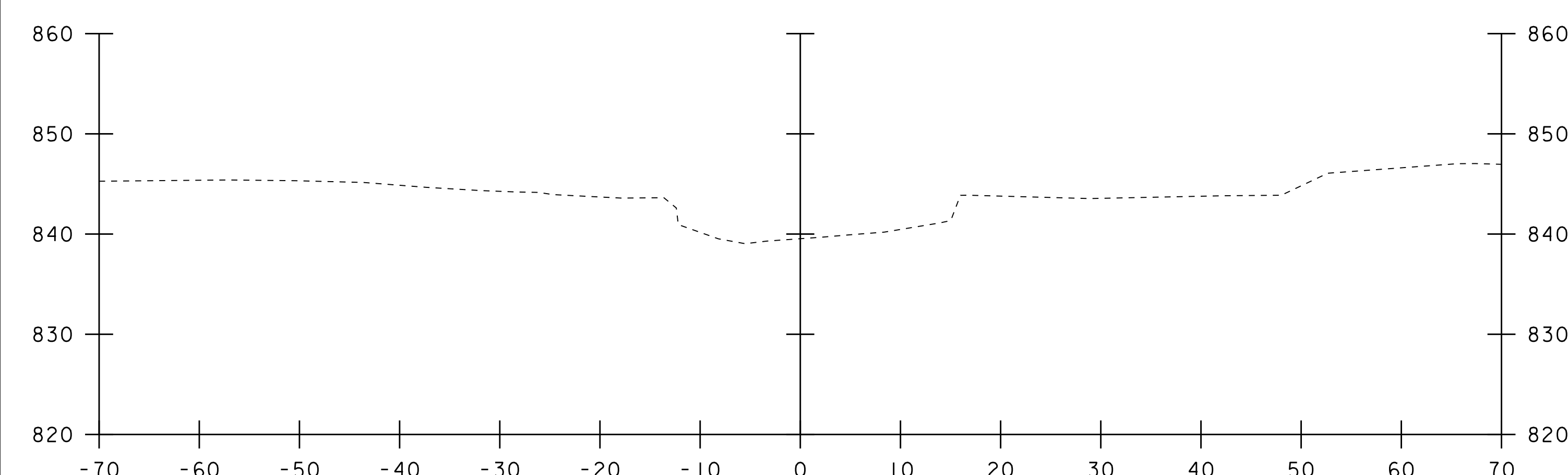
5+00



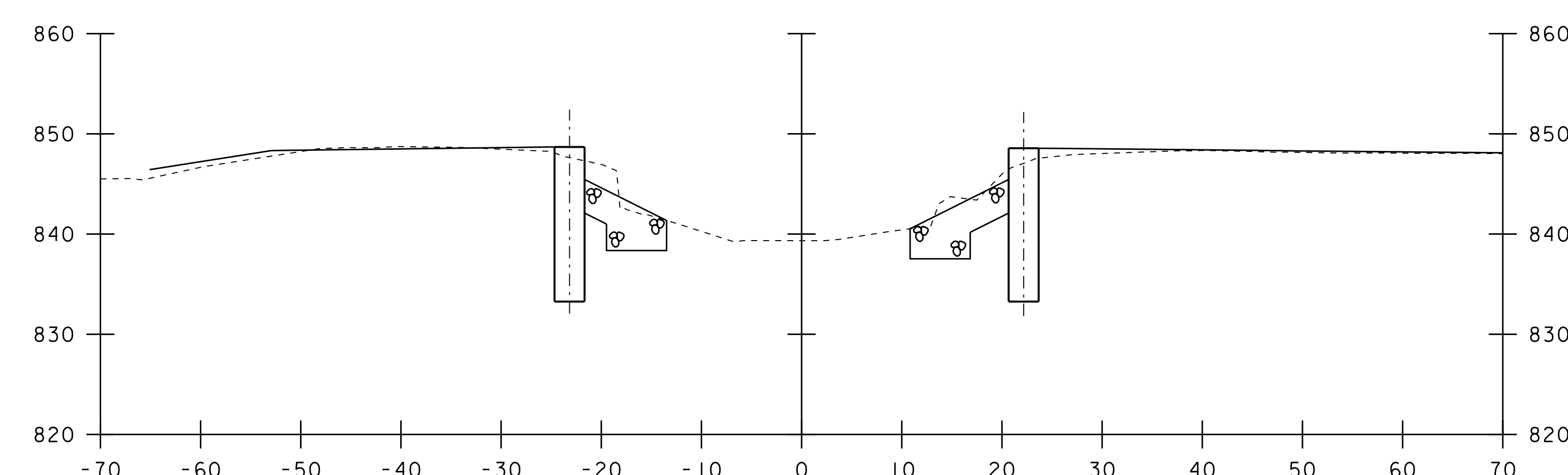
4+85



4+95



4+75



4+90

STA. 4+75 TO STA. 5+00

PROJECT NAME: BURKE	
PROJECT NUMBER: BO 1447(31)	
FILE NAME: sl2j610xs.dgn	PLOT DATE: 26-FEB-2019
PROJECT LEADER: C. CARLSON	DRAWN BY: A. FLINN
DESIGNED BY: A. FLINN	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS SHEET 1	
SHEET 12 OF 13	



