

REVIEWER NOTES:

1. AESTHETIC OPTIONS SUCH AS GIRDER MATERIAL/PAINT COLOR, CONCRETE STAMPING/STAINING AND RAILING COLOR WILL BE INCORPORATED IN FUTURE SUBMISSIONS, ONCE THE TOWN OF JAMAICA PROVIDES INPUT OF THEIR AESTHETIC PREFERENCES.
2. STAINLESS STEEL REINFORCING WILL BE USED IN THE DECK TO AVOID THE NEED FOR DECK REPLACEMENT WITHIN THE SERVICE LIFE OF THE STRUCTURE.
3. THE TEMPORARY BRIDGE HORIZONTAL ALIGNMENT AND TH-19 INTERSECTION GEOMETRY ACCOMMODATES A WB-40 DESIGN VEHICLE TURNING MOVEMENT.
4. HYDRAULIC DATA WILL BE INCLUDED IN NEXT PLAN SUBMISSION.
5. LANDSCAPING PLAN WILL BE REVISED FOR NEXT PLAN SUBMISSION AFTER COORDINATION WITH VTRANS' LANDSCAPE ARCHITECT.

STATE OF VERMONT

AGENCY OF TRANSPORTATION

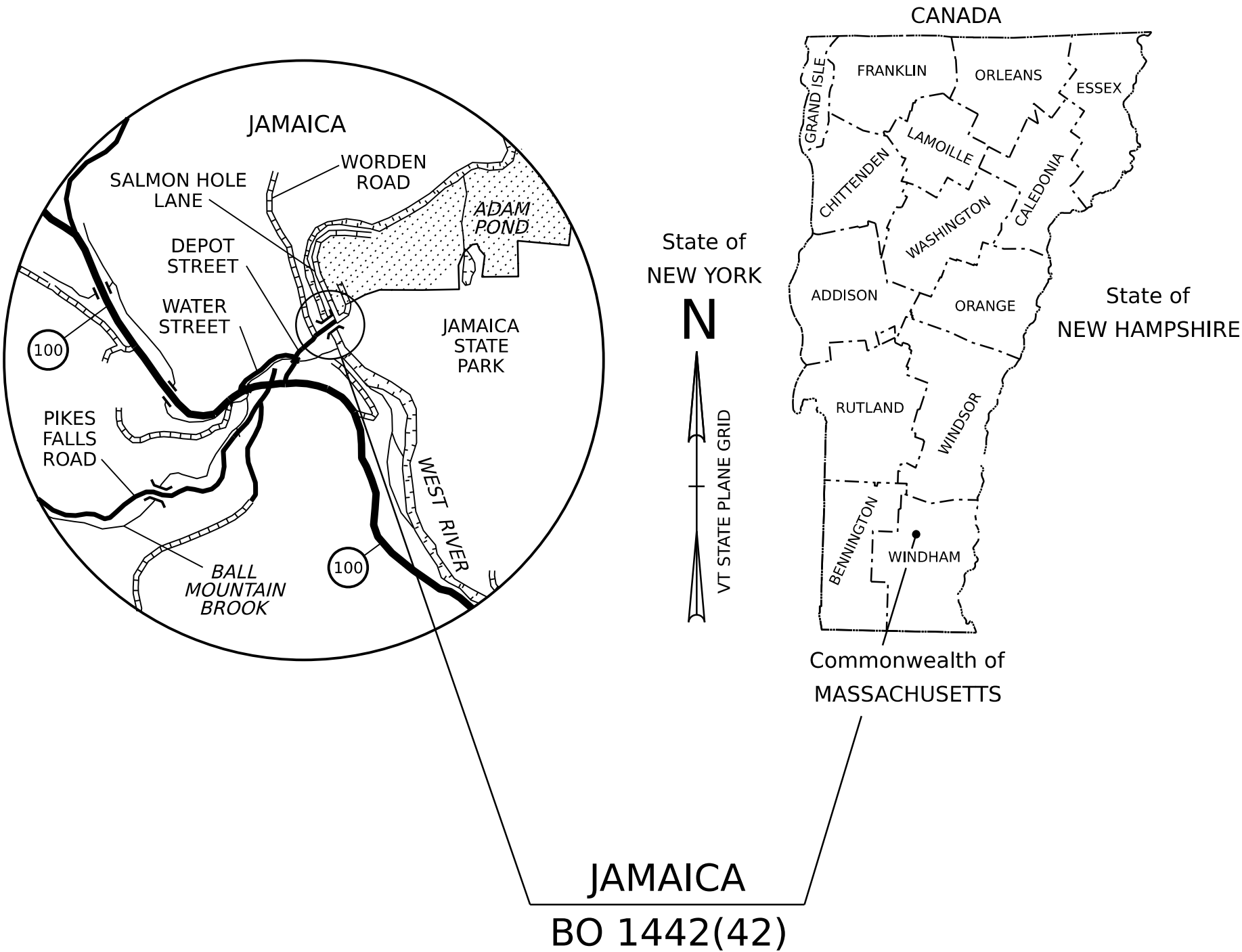


PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF JAMAICA

COUNTY OF WINDHAM

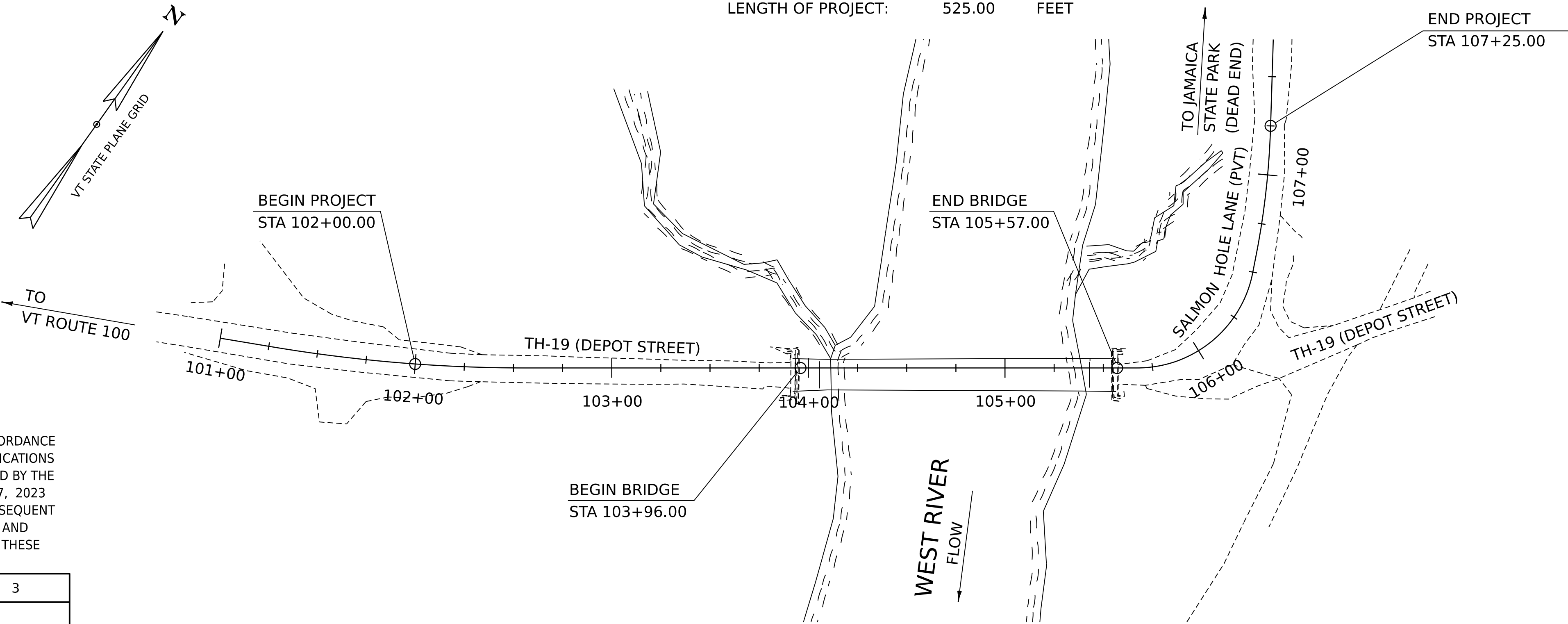


ROUTE NO: TOWN HIGHWAY 19 (DEPOT STREET) (CLASS 3) BRIDGE NO: 32

PROJECT LOCATION: DEPOT STREET, BRIDGE 32 OVER WEST RIVER, APPROXIMATELY 0.40 MILES NORTHEAST OF THE JUNCTION WITH VT ROUTE 100 IN THE TOWN OF JAMAICA

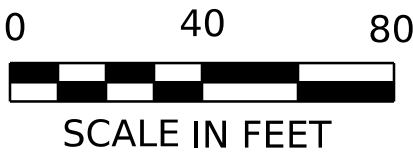
PROJECT DESCRIPTION: REPLACE EXISTING BRIDGE NO. 32 ON TH-19 IN THE TOWN OF JAMAICA WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF BRIDGE: 161.00 FEET
LENGTH OF ROADWAY: 364.00 FEET
LENGTH OF PROJECT: 525.00 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2024, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JUNE 27, 2023 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 3	
SURVEYED BY :	TC AND JW
SURVEYED DATE :	1/30/2020
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83(2011)



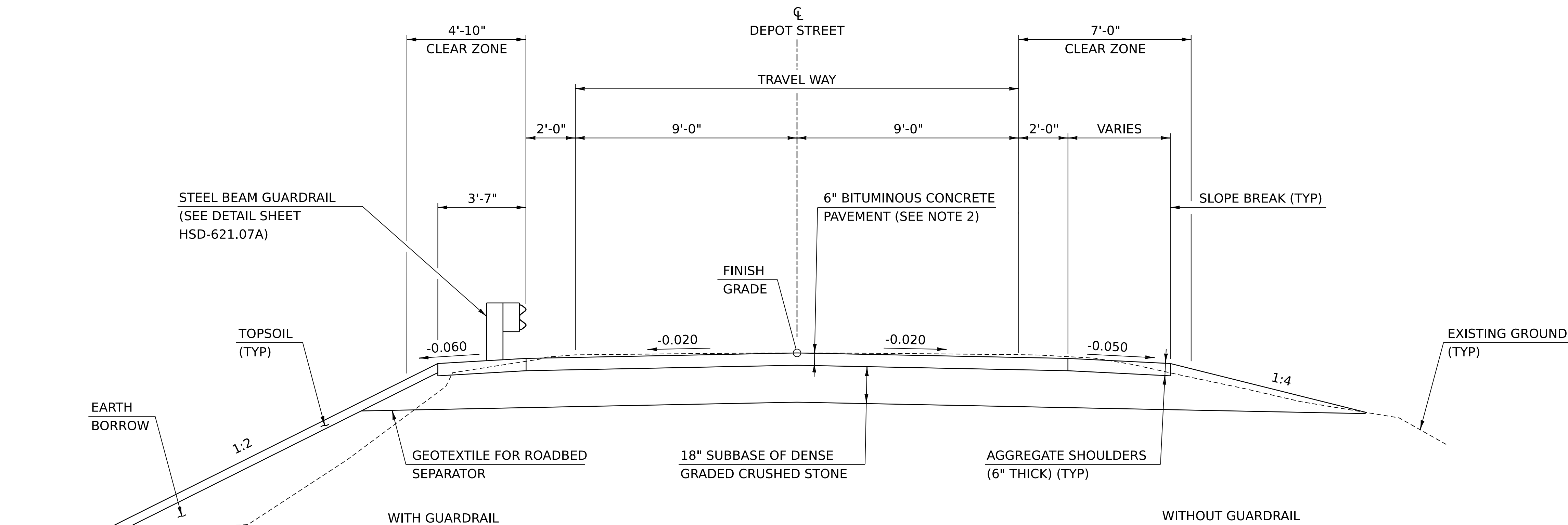
PRELIMINARY PLANS

29-MAY-2026

PROJECT MANAGER :	GARY LAROCHE, P.E.
PROJECT NAME :	JAMAICA
PROJECT NUMBER :	BO 1442(42)
SHEET 1 OF 41 SHEETS	



**HOYLE
TANNER**



PROPOSED TH-19 TYPICAL SECTION

SCALE: 3/8" = 1'-0"

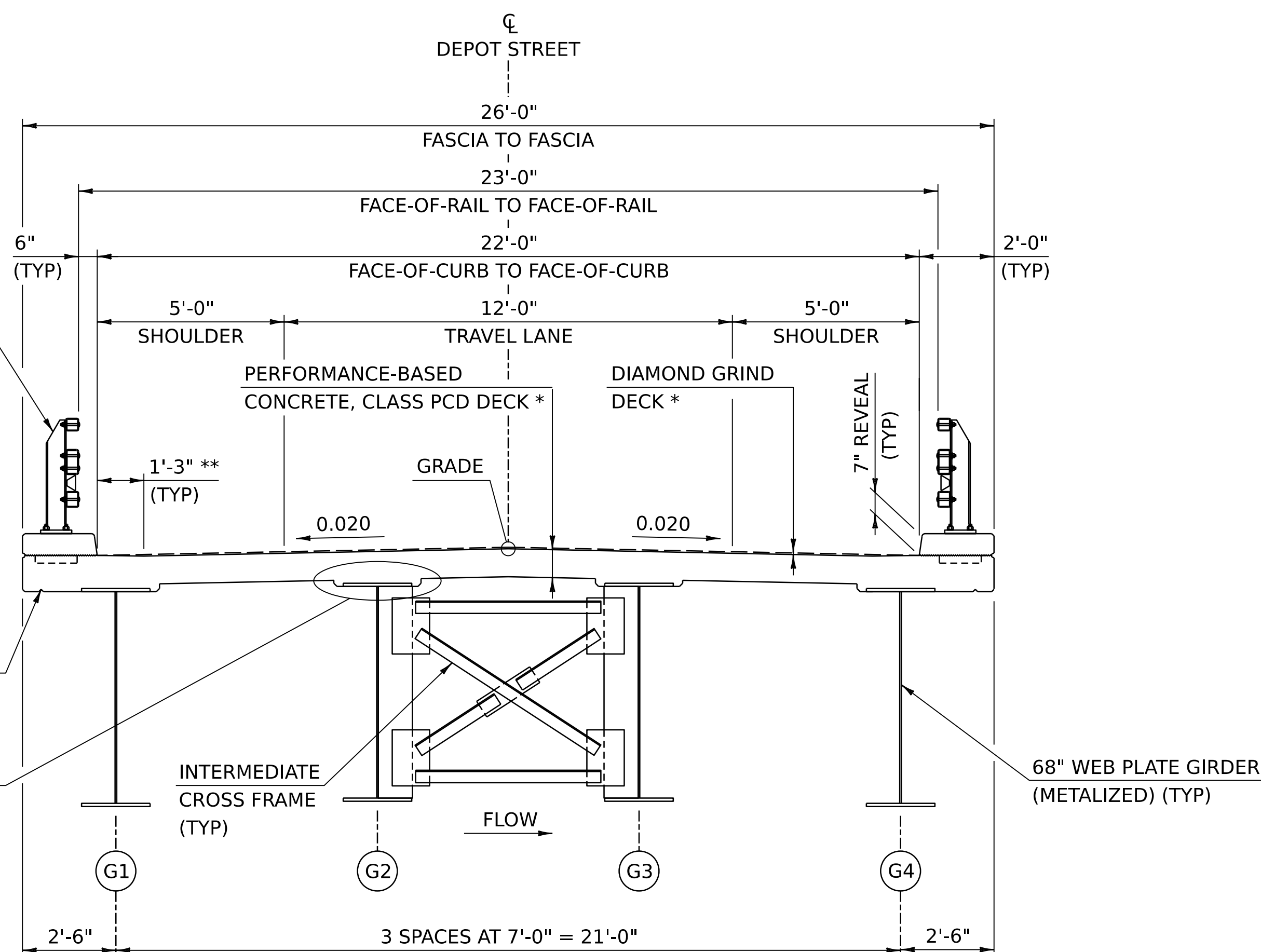
* DECK SHALL BE OVERPOURED TO A DEPTH OF 9 3/4" AND DIAMOND GROUND TO THE FINAL THICKNESS OF 9" AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH SPECIFICATION SECTION 509, CONCRETE BRIDGE DECK SURFACE PREPARATION.

** FINISH DECK TO FINAL GRADE OR TRANSITION OVERPOUR TO 0" AT FACE OF CURB. IF ANY OVERPOUR IS TRANSITIONED, IT SHALL BE COMPLETELY REMOVED BY GRINDING.

BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM (SEE STANDARD DRAWING S361-A) (TYP)

SEE "DRIP NOTCH DETAIL" ON STANDARD DRAWING S-501 (TYP)

SEE "HAUNCH AND SHEAR CONNECTOR DETAIL" ON STANDARD DRAWING S-600 (TYP)



TYPICAL BRIDGE SECTION

SCALE: 3/8" = 1'-0"

MATERIAL TOLERANCES
(IF USED ON PROJECT)

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

NOTES

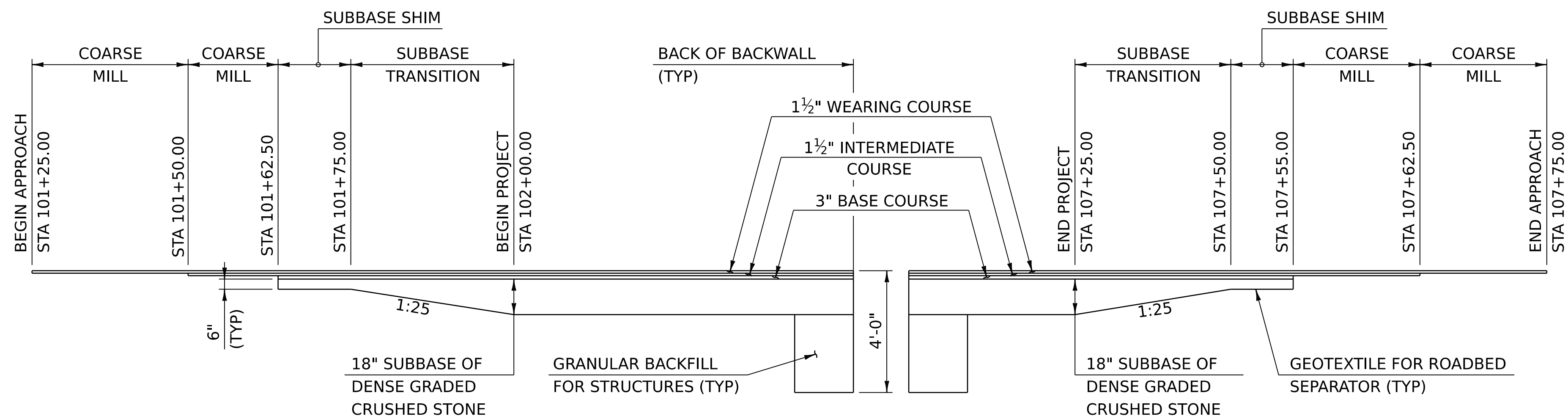
- PROPOSED TH-19 TYPICAL SECTION IS A GENERAL REPRESENTATION OF TYPICAL ROADWAY MATERIALS AND SLOPES. REFER TO THE LAYOUT SHEETS FOR LOCATION OF GUARDRAIL AND SLOPE TIE IN LOCATIONS.
- 6" BITUMINOUS CONCRETE PAVEMENT SHALL CONSIST OF THE FOLLOWING:
 - (2) 1 1/2" TYPE IVS WEARING COURSE OVER
 - (1) 3" TYPE IIIS BASE COURSE

PROJECT NAME: JAMAICA
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226typ.dgn
PROJECT LEADER: S.JAMES
DESIGNED BY: S.BISHOP
TYPICAL SECTIONS 1

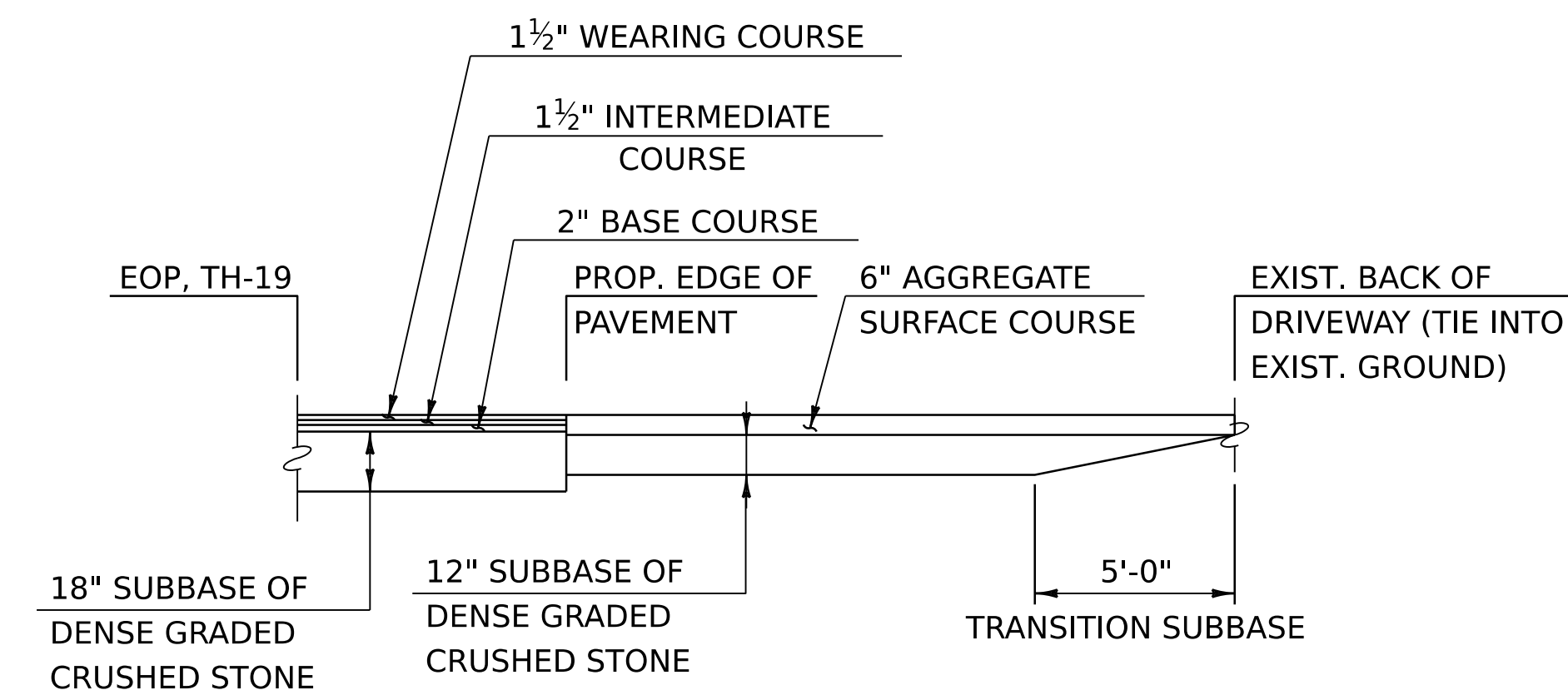
PLOT DATE: 29-MAY-2026
DRAWN BY: P.DUSTIN
CHECKED BY: M.OOMS
SHEET 3 OF 41





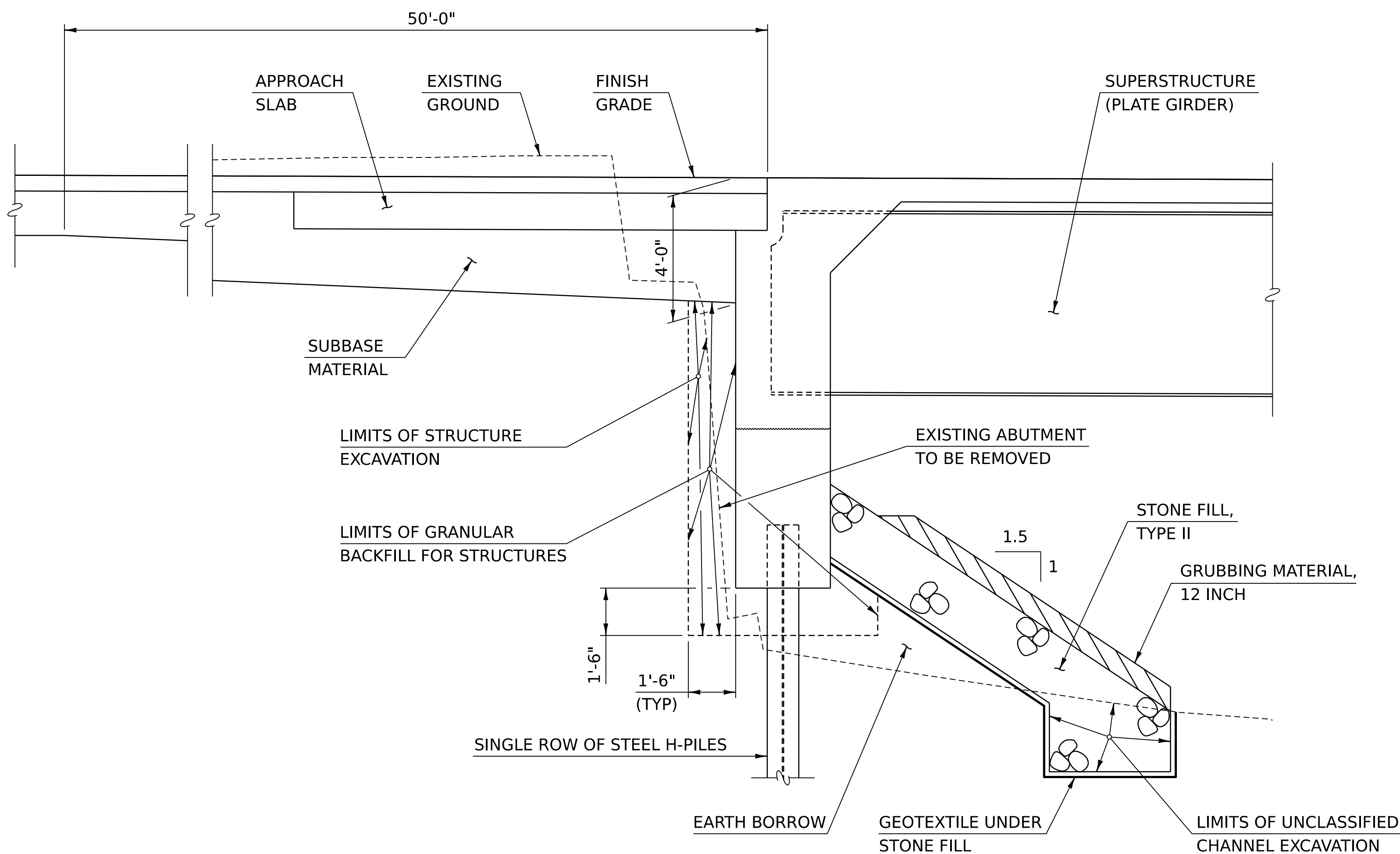
MATERIAL TRANSITION DETAIL

NOT TO SCALE



SIDEROAD/DRIVEWAY TRANSITION DETAIL

NOT TO SCALE



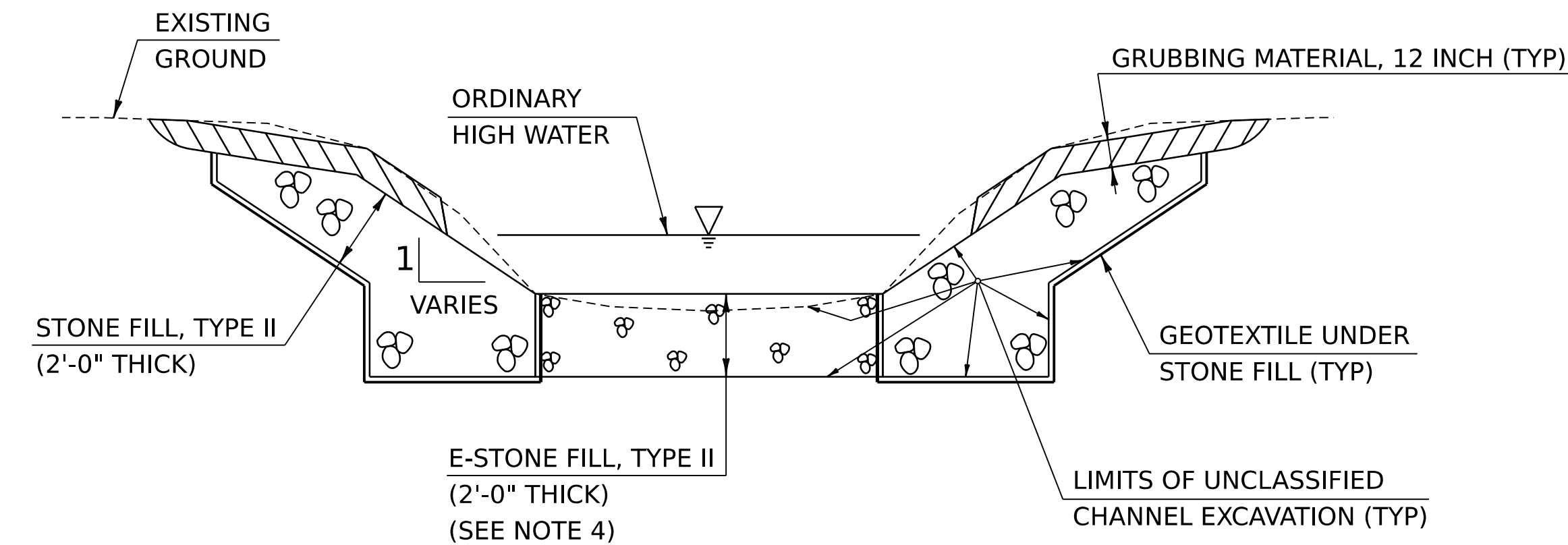
NOTE

ACTUAL STRUCTURE EXCAVATION LIMITS SHALL BE DETERMINED BY THE CONTRACTOR. HOWEVER, ONLY THE EXCAVATION BETWEEN THE LIMITS SHOWN FOR STRUCTURE EXCAVATION WILL BE PAID FOR UNDER ITEM 204.2500, STRUCTURE EXCAVATION. EXCAVATION OUTSIDE OF THESE LIMITS WILL BE AT THE EXPENSE OF THE CONTRACTOR.

TYPICAL EARTHWORK SECTION

(ABUTMENT NO. 1 SHOWN, ABUTMENT NO. 2 SIMILAR)

SCALE: 3/8" = 1'-0"



NOTES

1. 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.
2. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
3. WHENEVER BEDROCK IS ENCOUNTERED DURING EXCAVATION OF THE CHANNEL KEY OR FILL SLOPES, THE ENGINEER SHALL COORDINATE WITH THE RIVER MANAGEMENT ENGINEER FOR APPROVAL OF HOW THE CHANNEL SHALL BE CONSTRUCTED.
4. E-STONE FILL, TYPE II ONLY TO BE USED WHERE SHOWN IN PLANS. IT IS NOT ANTICIPATED TO BE USED IN THE WEST RIVER.

TYPICAL CHANNEL SECTION

NOT TO SCALE



PROJECT NAME:	JAMAICA	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	Z.ROUSSEL
FILE NAME:	z19j226typ.dgn	CHECKED BY:	M.OOMS
PROJECT LEADER:	S.JAMES	SHEET	4 OF 41
DESIGNED BY:	K.LAVIGNE		
TYPICAL SECTIONS 2			

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 — x — BF — x — x —	BARRIER FENCE
xxxxxxxxxxxxxxxxxxxxxxxx	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
— 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 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
— o — o — o — o —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
o — o — o — o — o — o —	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
~~~~~	BODY OF WATER EDGE
~~~~~	LEDGE EXPOSED

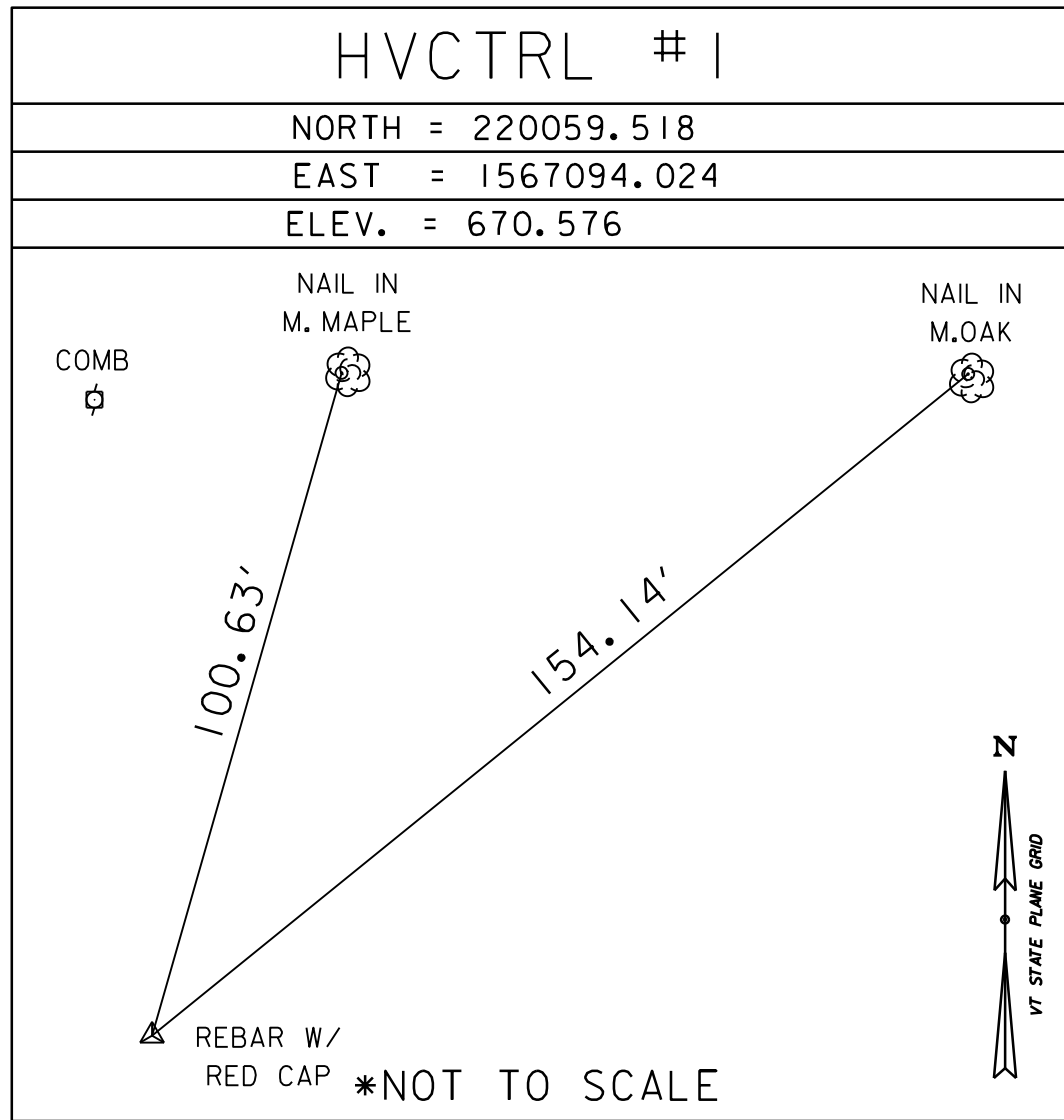


PROJECT NAME:	JAMAICA
PROJECT NUMBER:	BO 1442(42)
FILE NAME:	z19j226leg.dgn
PROJECT LEADER:	S.JAMES
DESIGNED BY:	S.BISHOP
CONVENTIONAL SYMBOLOLOGY LEGEND	
PLOT DATE:	29-MAY-2026
DRAWN BY:	S.ALLARD
CHECKED BY:	M.OOMS
SHEET	5 OF 41

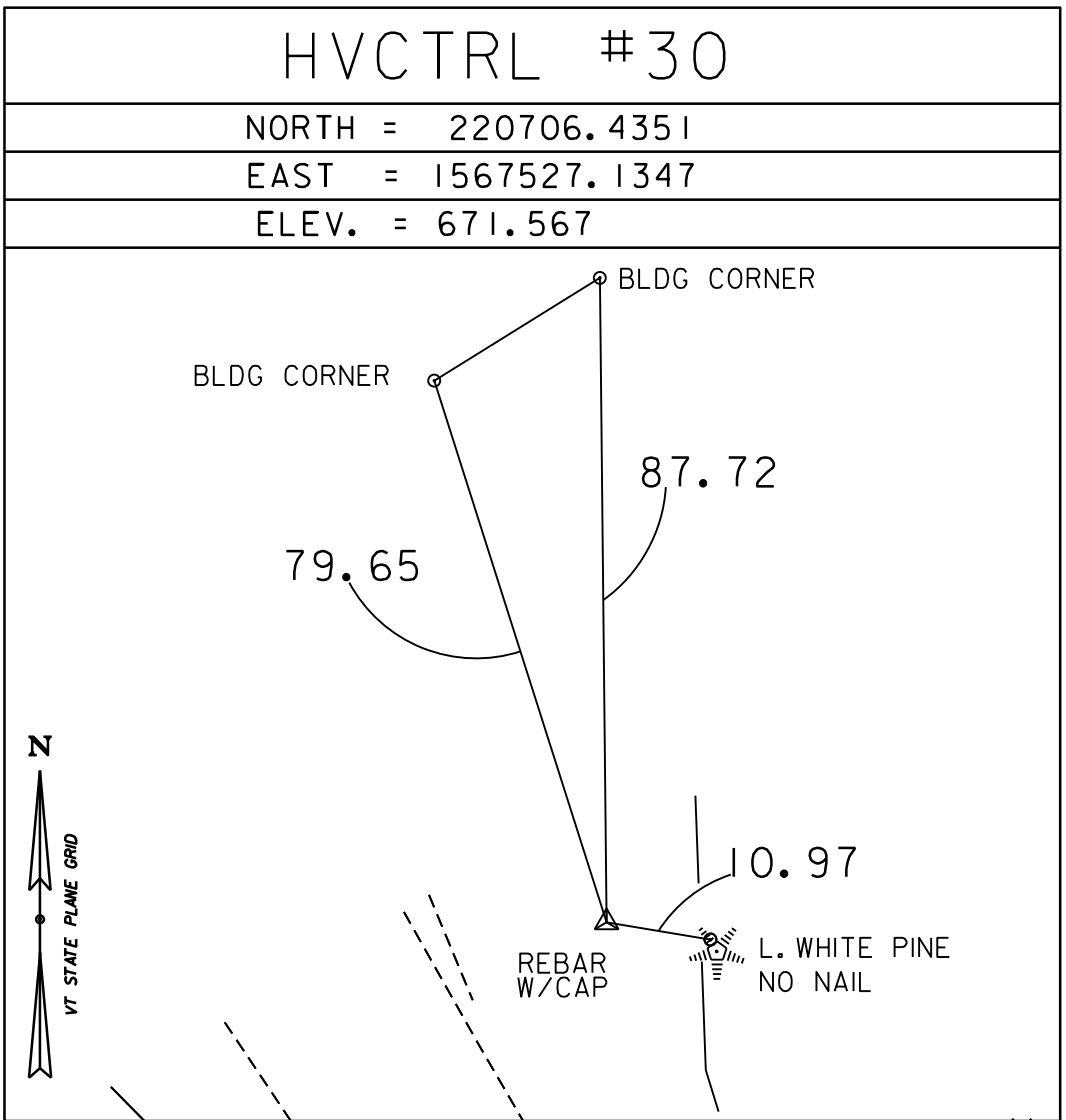
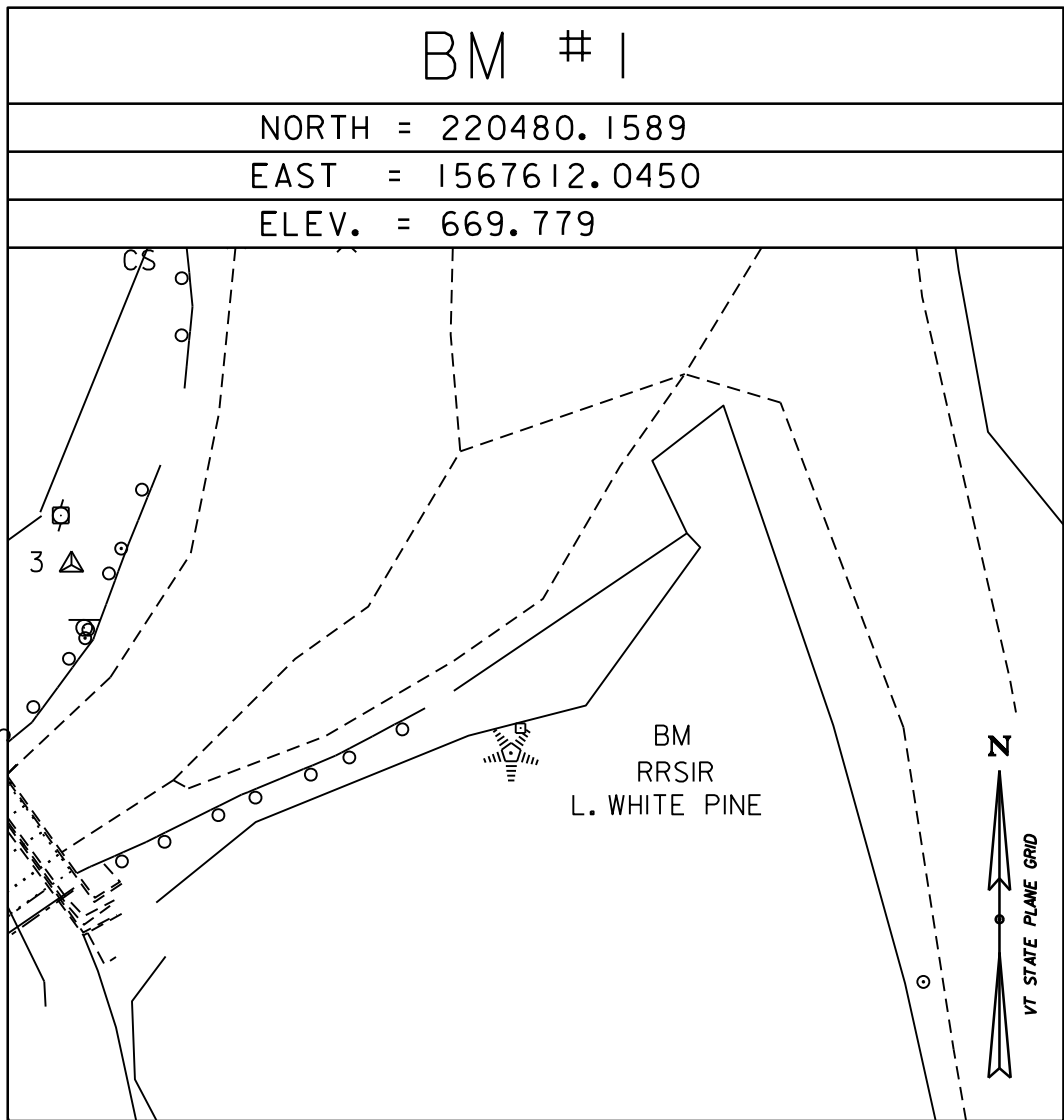
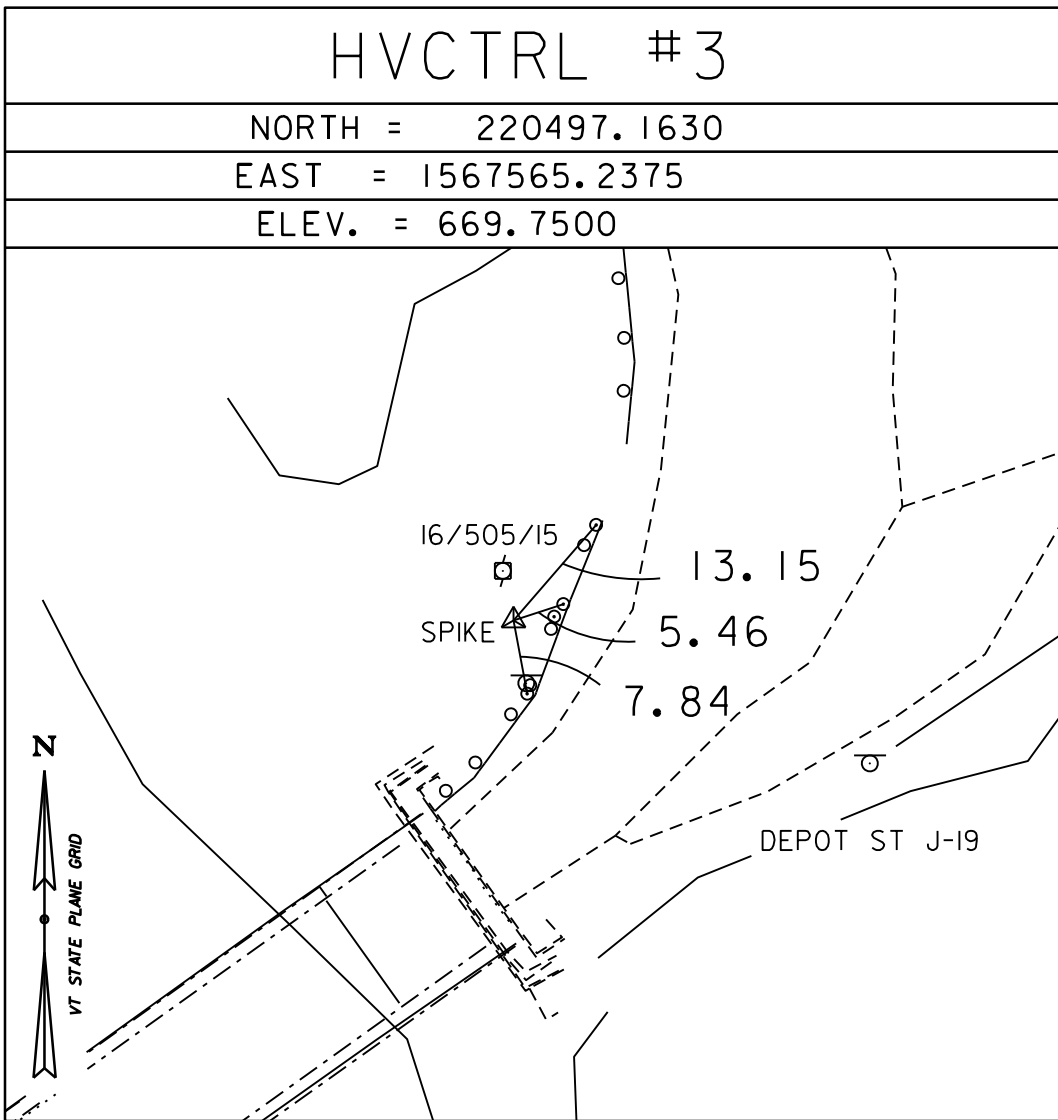
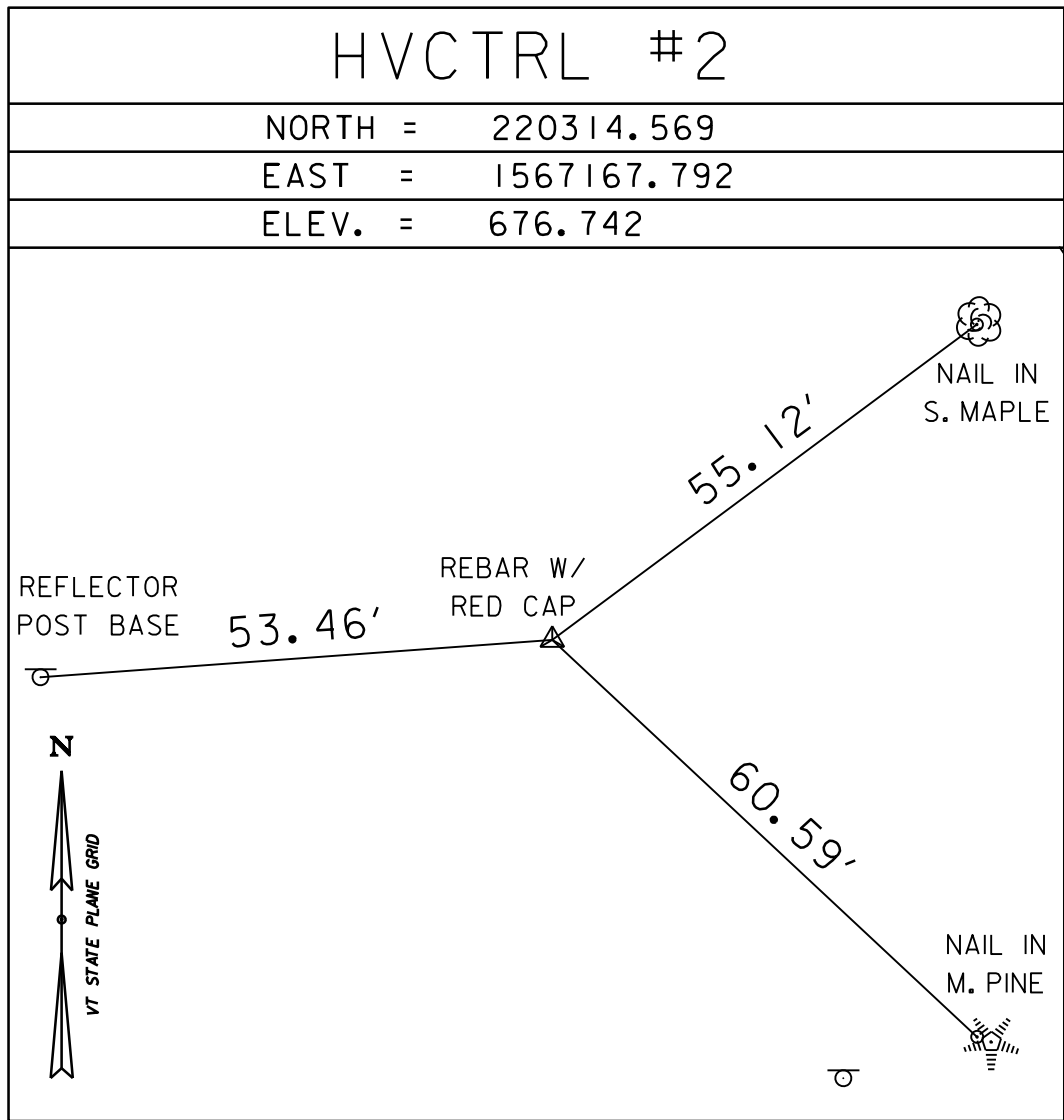
PRIMARY CONTROL

NAD83 STATE PLANE COORDINATES WERE DETERMINED WITH RTK GNSS. TWO 30 MINUTES OBSERVATIONS WERE COLLECTED ON CONTROL POINTS 1 AND 2. THE OBSERVATIONS WERE THEN AVERAGED TO ACHEIVE A FINAL COORDINATE.

SECONDARY CONTROL

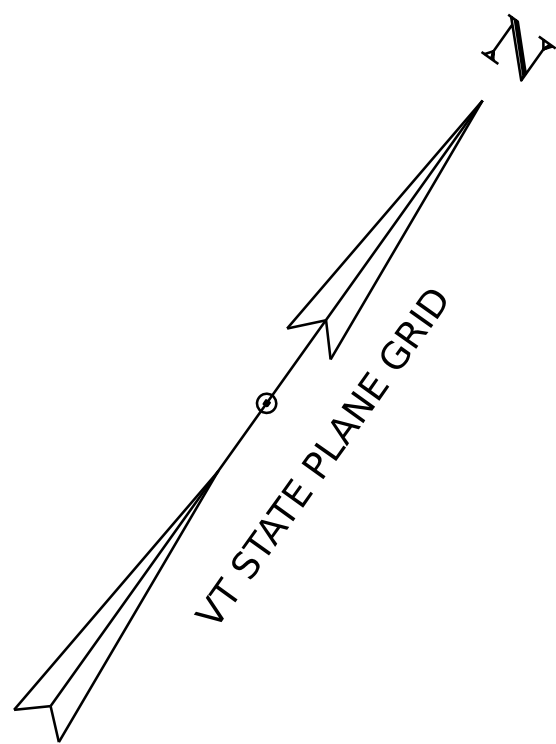


• SECONDARY TRAVERSE ESTABLISHED BY: T.CATTANEO P.C. & J.WANTUCH 1/30/2020



DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	

PROJECT NAME:	JAMAICA	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	J.WANTUCH
FILE NAME:	z19j226ti.dgn	CHECKED BY:	G.HITCHCOCK
PROJECT LEADER:	S.JAMES	SHEET	6 OF 41
DESIGNED BY:	VTRANS		
TIE SHEET			

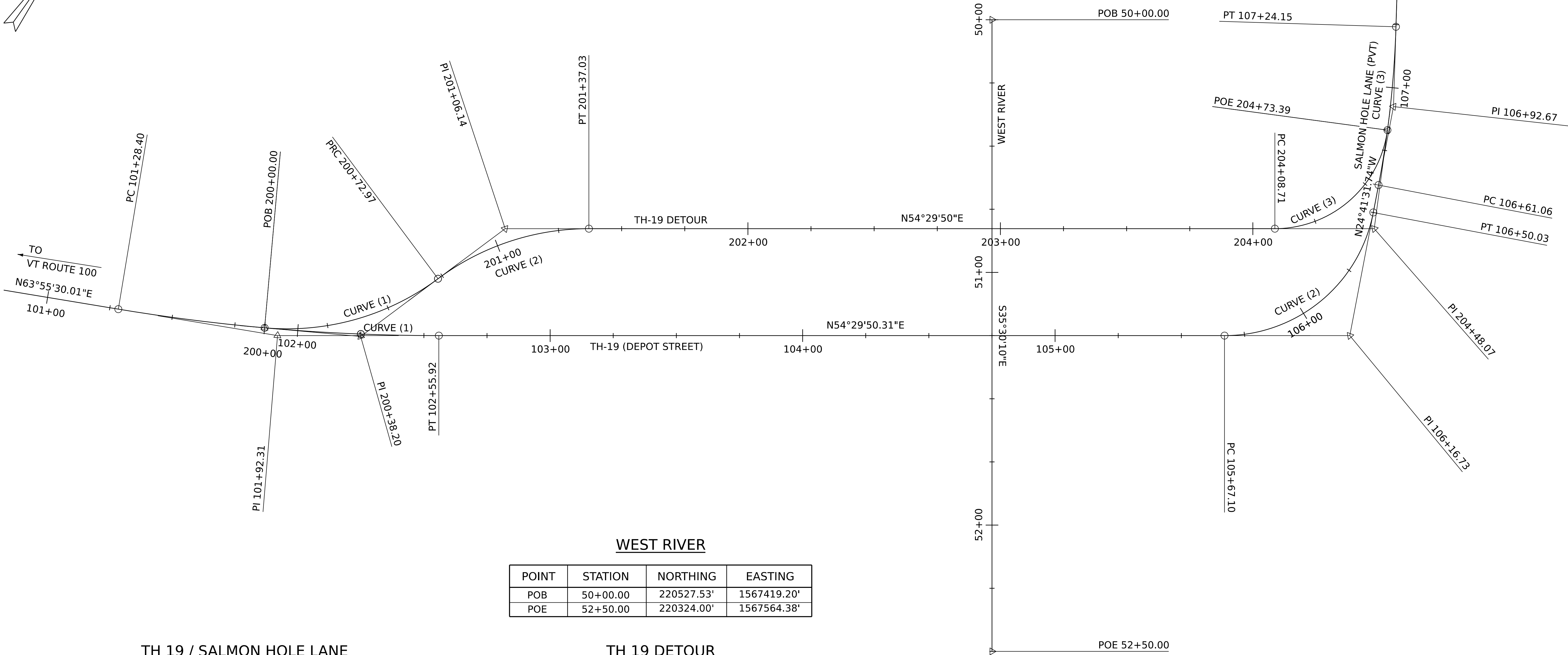


TH-19 DETOUR CURVE DATA

CURVE (1)	CURVE (2)	CURVE (3)
DELTA = 41°48'35"	DELTA = 36°42'07"	DELTA = 82°20'47"
D = 57°17'45"	D = 57°42'07"	D = 127°19'26"
R = 100.00'	R = 100.00'	R = 45.00'
T = 38.20'	T = 33.17'	T = 39.36'
L = 72.97'	L = 64.06'	L = 64.67'
E = 7.05'	E = 5.36'	E = 14.78'

TH-19 CURVE DATA

CURVE (1)	CURVE (2)	CURVE (3)
DELTA = 9°25'40"	DELTA = 79°11'22"	DELTA = 9°02'13"
D = 7°23'35"	D = 95°29'35"	D = 14°19'26"
R = 775.00'	R = 60.00'	R = 400.00'
T = 63.91'	T = 49.63'	T = 31.61'
L = 127.52'	L = 82.93'	L = 63.09'
E = 2.63'	E = 17.86'	E = 1.25'



WEST RIVER

POINT	STATION	NORTHING	EASTING
POB	50+00.00	220527.53'	1567419.20'
POE	52+50.00	220324.00'	1567564.38'

TH 19 / SALMON HOLE LANE

POINT	STATION	NORTHING	EASTING	ELEVATION
POB	100+75.00	220209.863'	1567156.050'	MATCH EXIST
PC	101+28.40	220233.336'	1567204.016'	673.704
PI	101+92.31	220261.425'	1567261.417'	673.002
PT	102+55.92	220298.538'	1567313.441'	672.432
PC	105+67.10	220479.251'	1567566.767'	671.374
PI	106+16.73	220508.071'	1567607.167'	N/A
PT	106+50.03	220553.161'	1567586.436'	671.772
PC	106+61.06	220563.185'	1567581.827'	671.772
PI	106+92.67	220591.905'	1567568.622'	N/A
PT	107+24.15	220618.195'	1567551.070'	671.772
POE	108+21.74	220699.346'	1567496.889'	MATCH EXIST

TH 19 DETOUR

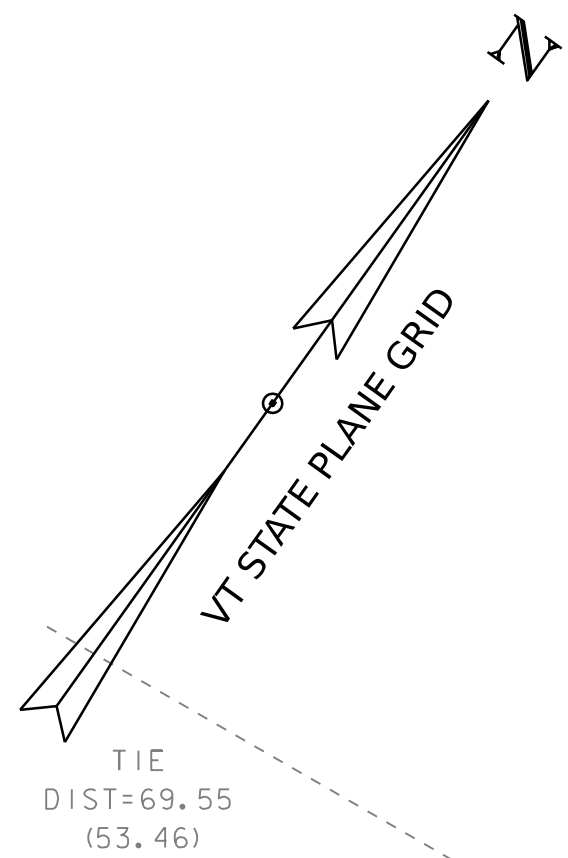
POINT	STATION	NORTHING	EASTING	ELEVATION
POB/PC	200+00.00	220260.97'	1567255.48'	673.066
PI	200+38.20	220280.30'	1567288.43'	N/A
PRC	200+72.97	220316.67'	1567300.10'	672.039
PI	201+06.14	220348.25'	1567310.24'	N/A
PT	201+37.03	220367.51'	1567337.24'	671.934
PC	204+08.10	220525.29'	1567558.42'	669.830
PI	204+48.07	220548.15'	1567590.46'	N/A
POE/PCC	204+73.39	220582.95'	1567572.07'	670.488



PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226bdr_geom.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: Z.ROUSSEL  
ALIGNMENT LAYOUT SHEET

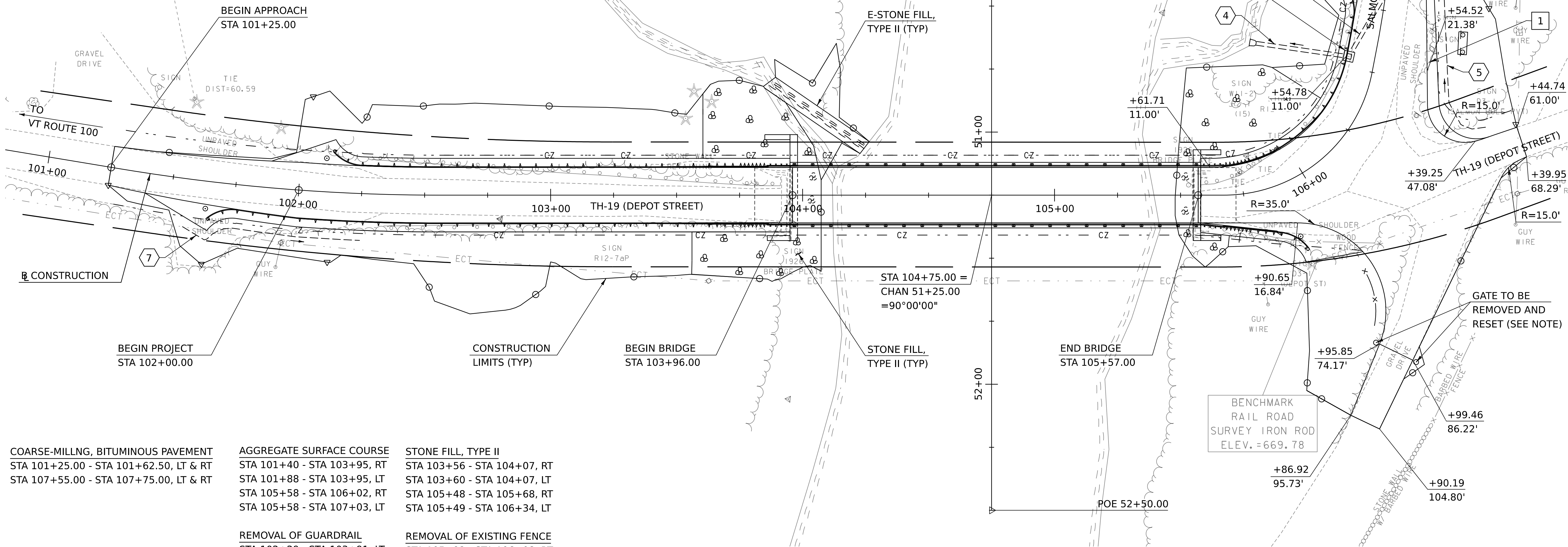
PLOT DATE: 29-MAY-2026  
DRAWN BY: Z.ROUSSEL  
CHECKED BY: M.OOMS  
SHEET 7 OF 41



- 1 STA 107+19.52, RT 18.14'  
CONSTRUCT 4' DIA PRCCB  
W/ CAST IRON GRATE, TYPE D  
RIM ELEV = 668.52'  
SUMP ELEV = 663.93'
- 2 STA 106+54.47, LT 10.26'  
CONSTRUCT 4' DIA PRCCB  
W/ CAST IRON GRATE, TYPE D  
RIM ELEV = 670.88'  
SUMP ELEV = 662.20'
- 3 STA 107+19.52, RT 18.14' TO  
STA 106+54.47, LT 10.26'  
CONSTRUCT 18" CPEP(SL)  
LENGTH = 71.6'  
INLET ELEV = 665.93'  
OUTLET ELEV = 664.50'

- 4 STA 106+54.47, LT 10.26 TO  
STA 106+52.58, LT 47.37  
CONSTRUCT 18" CPEP(SL)  
CONSTRUCT 18" CPEPES  
LENGTH = 35.2'  
INLET ELEV = 664.20'  
OUTLET ELEV = 663.50'
- 5 STA 106+42.89, RT 49.15' TO  
STA 107+50.08, RT 15.83'  
NEW GRASS SWALE
- 6 STA 107+16.00, LT 14.74' TO  
STA 107+61.68, LT 13.96'  
NEW GRASS SWALE
- 7 STA 101+56.18, RT 19.13' TO  
STA 102+25.00, RT 18.58'  
NEW GRASS SWALE

- 1 STA 106+55.80, RT 20.00'  
REMOVE DI
- 2 STA 107+10.11, LT 23.50' TO  
STA 105+39.10, LT 56.15'  
MAINTAIN EXISTING DRAINAGE DITCH



COARSE-MILLING, BITUMINOUS PAVEMENT  
STA 101+25.00 - STA 101+62.50, LT & RT  
STA 107+55.00 - STA 107+75.00, LT & RT

AGGREGATE SURFACE COURSE  
STA 101+40 - STA 103+95, RT  
STA 101+88 - STA 103+95, LT  
STA 105+58 - STA 106+02, RT  
STA 105+58 - STA 107+03, LT

REMOVAL OF GUARDRAIL  
STA 102+29 - STA 103+91, LT  
STA 102+34 - STA 103+90, RT  
STA 105+58 - STA 106+99, LT  
STA 105+58 - STA 105+89, RT

STONE FILL, TYPE II  
STA 103+56 - STA 104+07, RT  
STA 103+60 - STA 104+07, LT  
STA 105+48 - STA 105+68, RT  
STA 105+49 - STA 106+34, LT

REMOVAL OF EXISTING FENCE  
STA 105+92 - STA 106+08, RT  
STA 107+29 - STA 107+29, LT  
STA 107+29 - STA 107+29, RT

REMOVING AND RESETTNG FENCE  
STA 105+98, RT  
STA 107+29, LT & RT

SPLIT RAIL FENCE  
STA 105+96 - STA 106+00, RT

EXISTING BRIDGE INFORMATION  
BUILT 1926, SINGLE SPAN  
172' THRU STEEL TRUSS  
MAX SPAN 165' 14' WIDTH  
WOOD DECK. 8 TON LIMIT

#### NOTE

ALL COSTS ASSOCIATED WITH REMOVAL AND RESETTNG OF  
VEHICULAR GATES SHALL BE AID UNDER ITEM 620.5000,  
REMOVING AND RESETTNG FENCE.

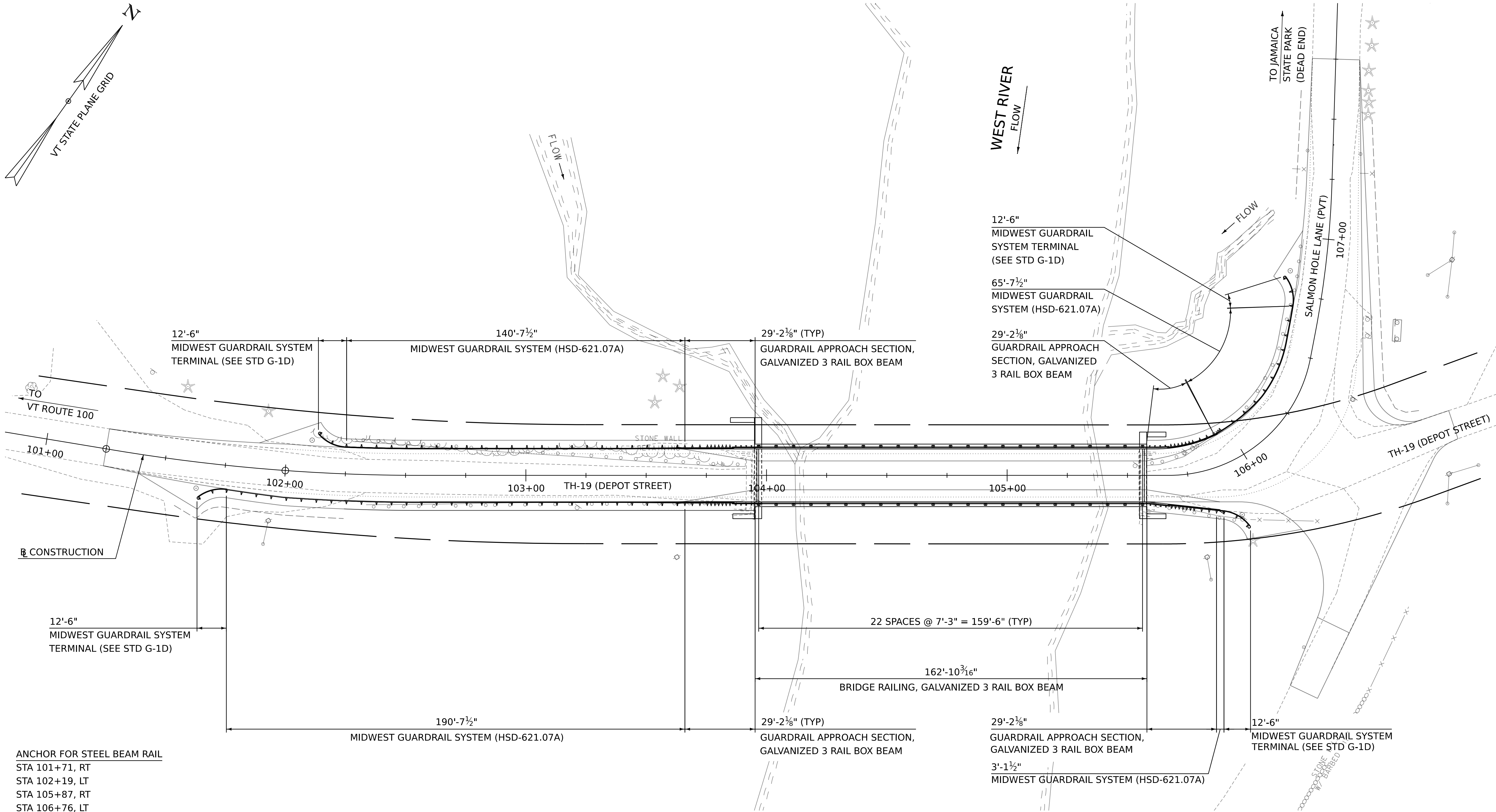
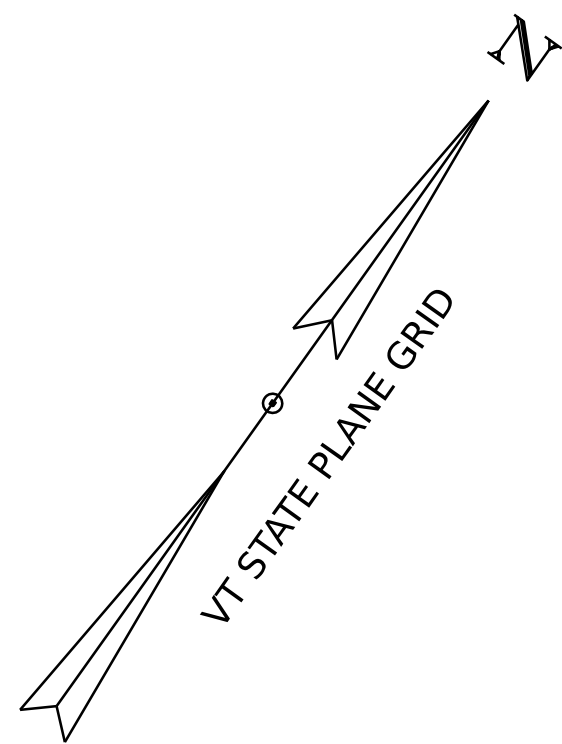
0 20 40  
SCALE IN FEET



PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226bdr_lay.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: Z.ROUSSEL  
LAYOUT SHEET

PLOT DATE: 29-MAY-2026  
DRAWN BY: Z.ROUSSEL  
CHECKED BY: M.OOMS  
SHEET 8 OF 41



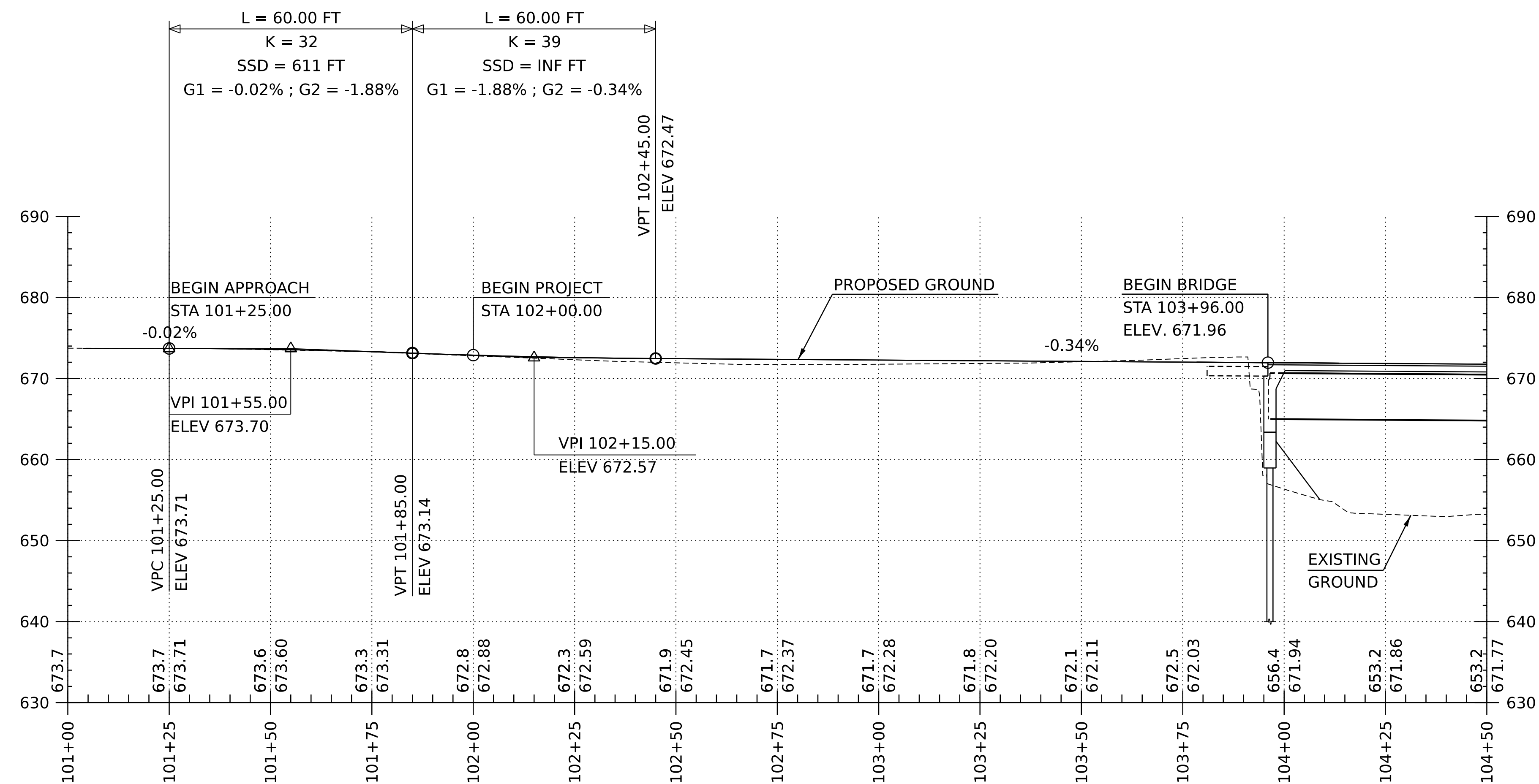
**ANCHOR FOR STEEL BEAM RAIL**  
STA 101+71, RT  
STA 102+19, LT  
STA 105+87, RT  
STA 106+76, LT

**STEEL BEAM GUARDRAIL**  
STA 101+65 - STA 103+66, RT  
STA 102+13 - STA 103+66, LT  
STA 105+83 - STA 105+89, RT  
STA 105+92 - STA 106+82, LT  
**DELINEATOR WITH STEEL POST**  
STA 101+64, RT  
STA 102+10, LT  
STA 105+90, RT  
STA 106+85, LT

**BRIDGE RAIL**  
GALVANIZED 3 RAIL BOX BEAM  
STA 103+97 - STA 105+56, RT  
STA 103+97 - STA 105+56, LT  
**GUARDRAIL APPROACH SECTION,**  
3 RAIL BOX BEAM  
STA 103+66 - STA 103+95, RT  
STA 103+66 - STA 103+95, LT  
STA 105+58 - STA 105+83, RT  
STA 105+58 - STA 105+92, LT

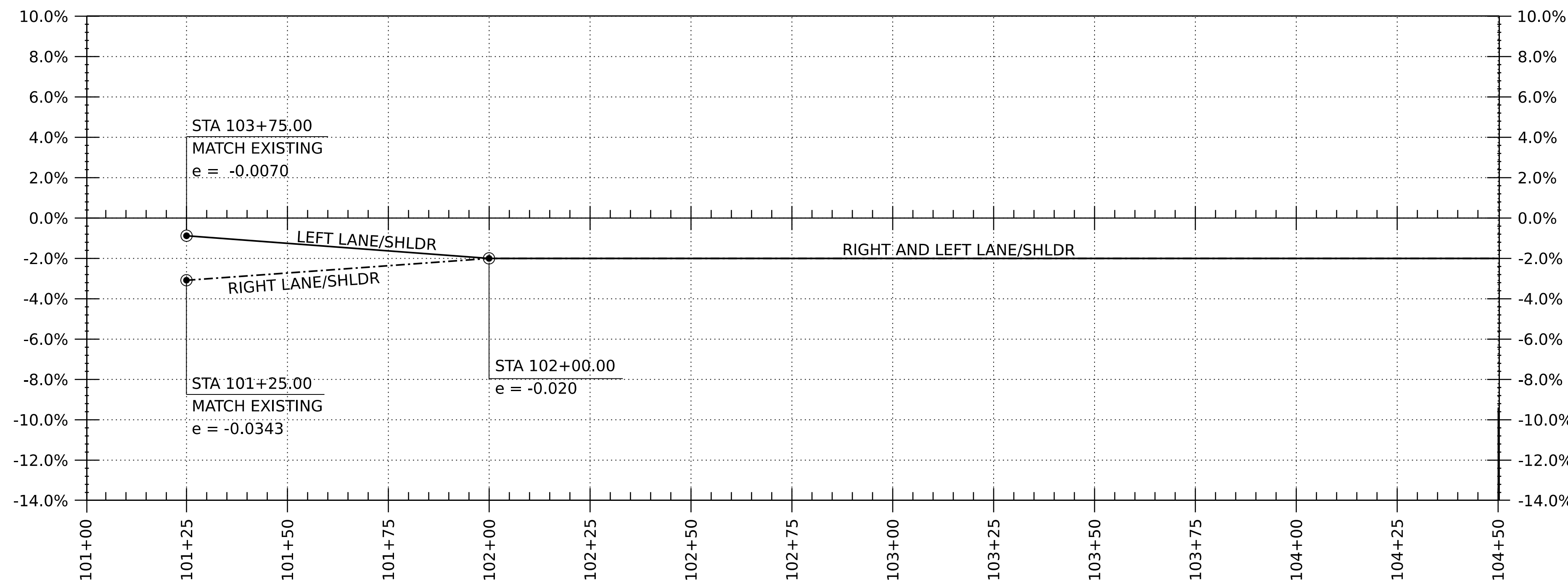


PROJECT NAME:	JAMAICA	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	Z.ROUSSEL
FILE NAME:	z19j226bdr_gr.dgn	CHECKED BY:	M.OOMS
PROJECT LEADER:	S.JAMES	SHEET	9 OF 41
DESIGNED BY:	Z.ROUSSEL		
GUARDRAIL LAYOUT SHEET			



TH-19 PROFILE

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



TH-19 BANKING DIAGRAM

SCALE: 1"=20' HORIZONTAL  
NO VERTICAL SCALE

NOTE

ELEVATIONS SHOWN TO THE NEAREST TENTH  
ARE EXISTING GROUND ALONG CL  
ELEVATIONS SHOWN TO THE NEAREST  
HUNDREDTH ARE FINISH GRADE ALONG CL

NOTE

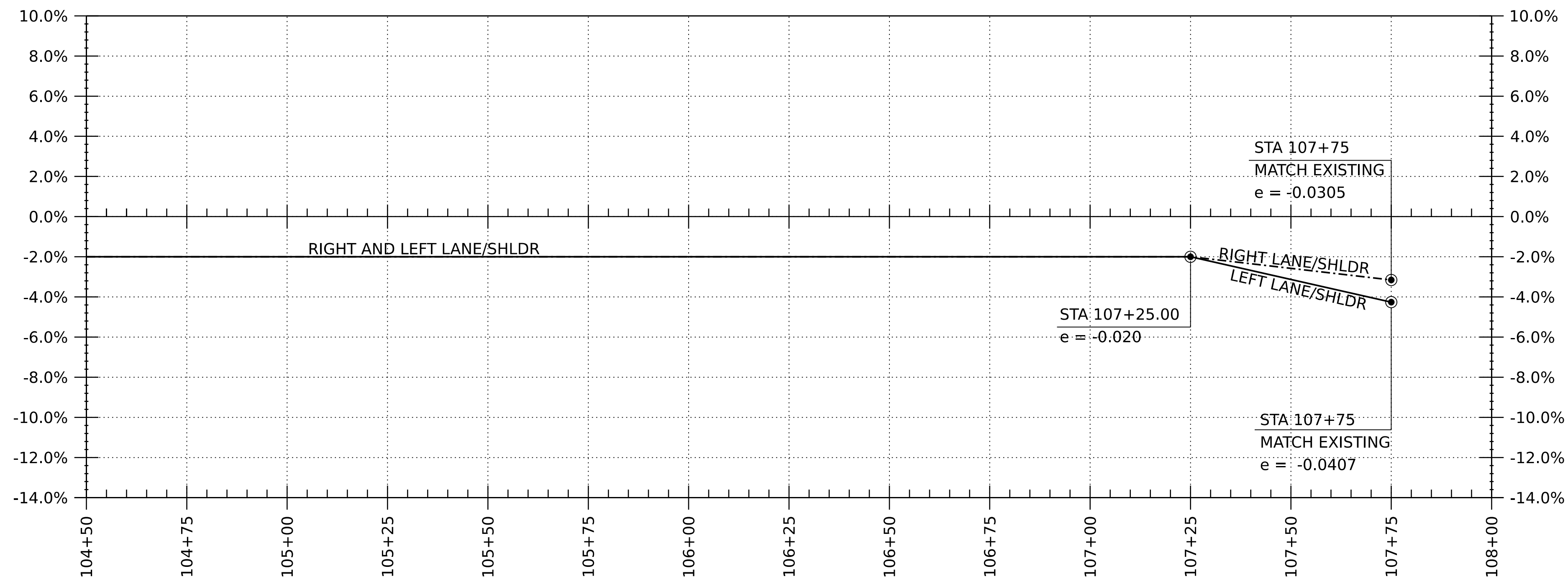
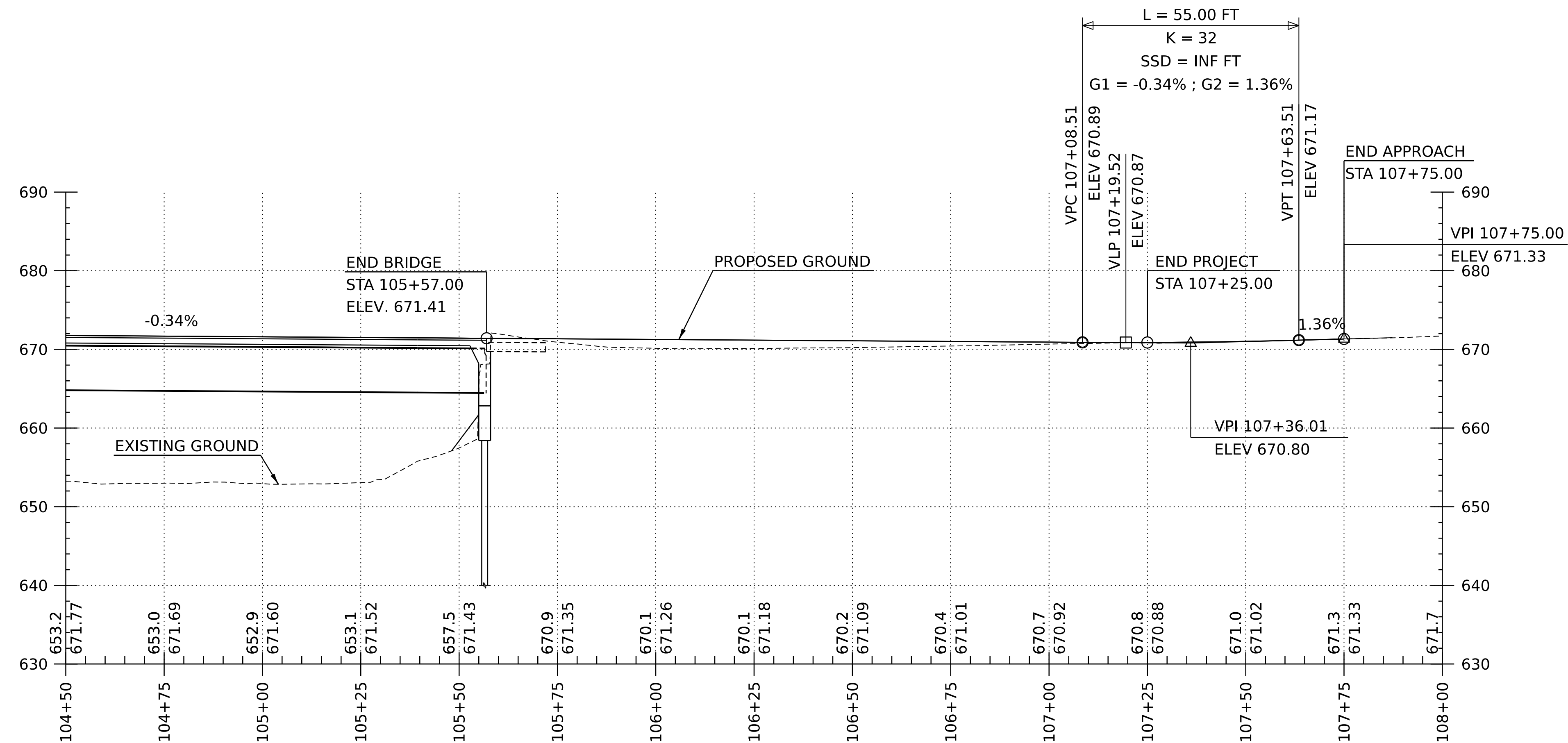
THE PROFILE SHOWN CONVEYS THE PROFILE  
ALONG THE CENTERLINE OF DEPOT STREET  
AND FOLLOWS THE CENTERLINE DOWN  
SALMON HOLE LANE, INTO JAMAICA STATE  
PARK. SEE THE LAYOUT SHEET FOR MORE  
INFORMATION.



PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226pro.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: Z.ROUSSEL  
TH-19 PROFILE SHEET 1

PLOT DATE: 29-MAY-2026  
DRAWN BY: Z.ROUSSEL  
CHECKED BY: M.OOMS  
SHEET 10 OF 41



NOTE

ELEVATIONS SHOWN TO THE NEAREST TENTH  
ARE EXISTING GROUND ALONG CL  
ELEVATIONS SHOWN TO THE NEAREST  
HUNDREDTH ARE FINISH GRADE ALONG CL

NOTE

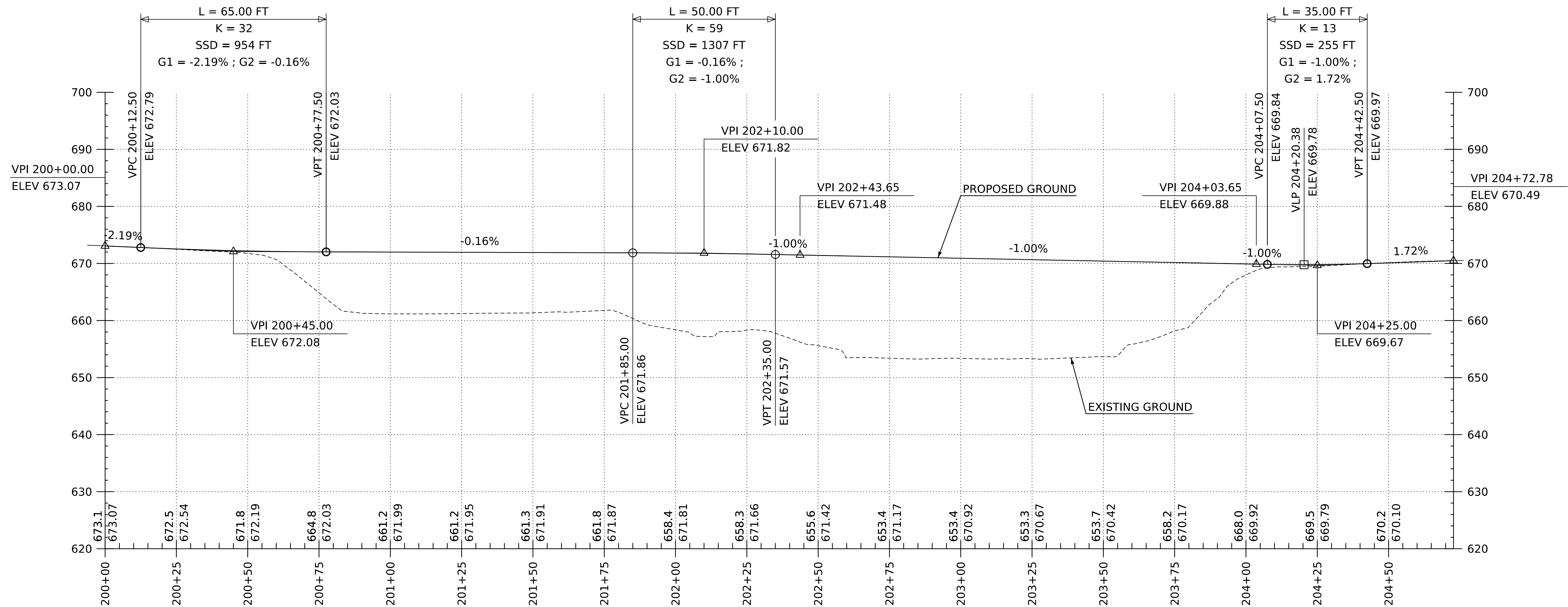
THE PROFILE SHOWN CONVEYS THE PROFILE  
ALONG THE CENTERLINE OF DEPOT STREET  
AND FOLLOWS THE CENTERLINE DOWN  
SALMON HOLE LANE, INTO JAMAICA STATE  
PARK. SEE THE LAYOUT SHEET FOR MORE  
INFORMATION.



PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226pro.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: Z.ROUSSEL  
TH-19 PROFILE SHEET 2

PLOT DATE: 29-MAY-2026  
DRAWN BY: Z.ROUSSEL  
CHECKED BY: M.OOMS  
SHEET 11 OF 41



DETOUR PROFILE

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

NOTE

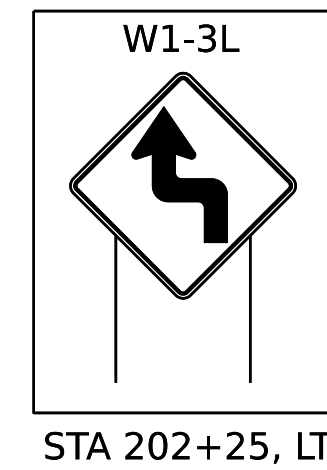
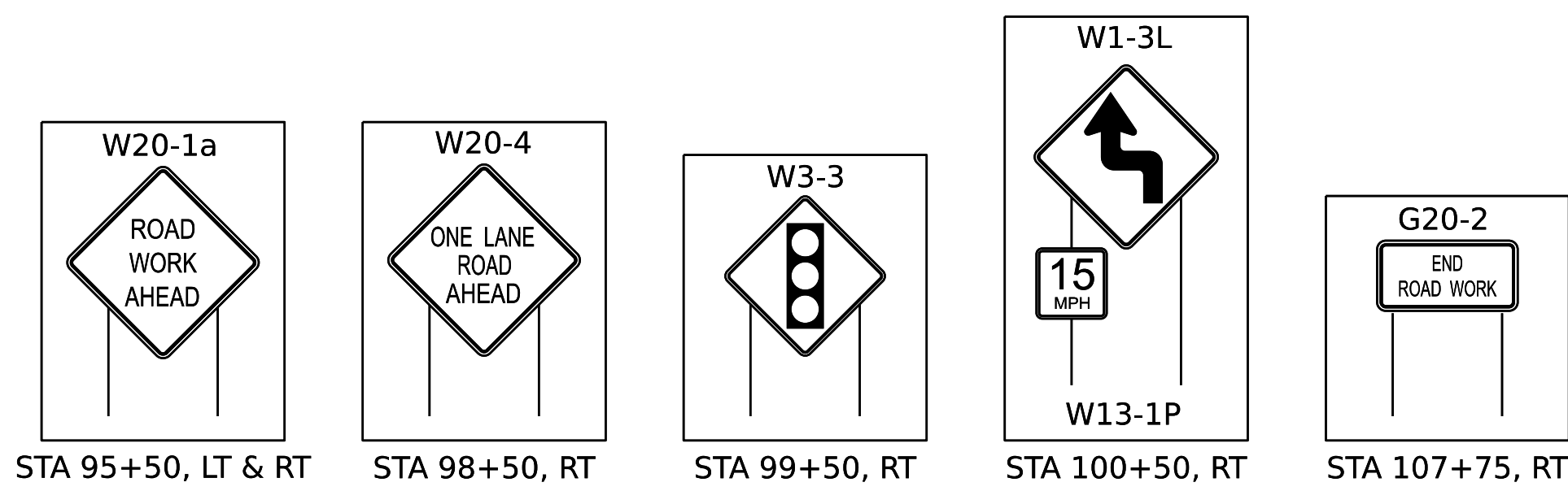
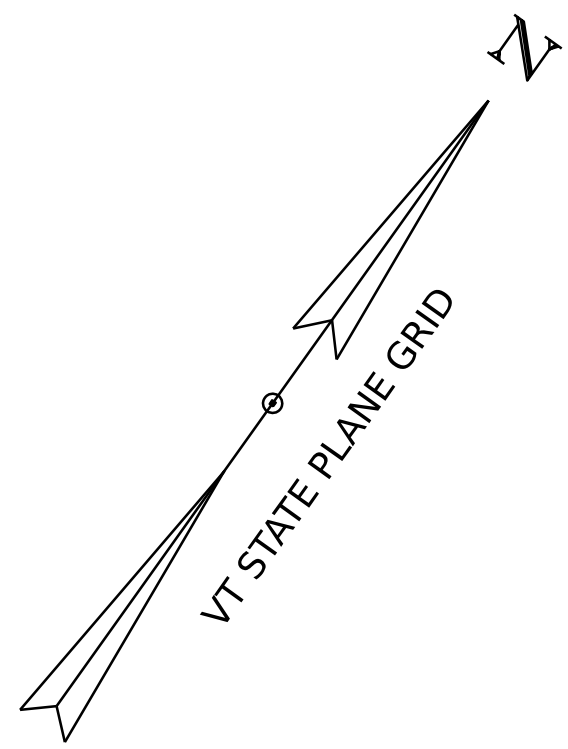
ELEVATIONS SHOWN TO THE NEAREST TENTH  
ARE EXISTING GROUND ALONG CL  
ELEVATIONS SHOWN TO THE NEAREST  
HUNDREDTH ARE FINISH GRADE ALONG CL



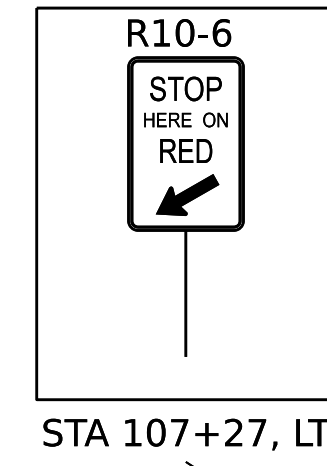
PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226proDetour.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: Z.ROUSSEL  
DETOUR PROFILE SHEET

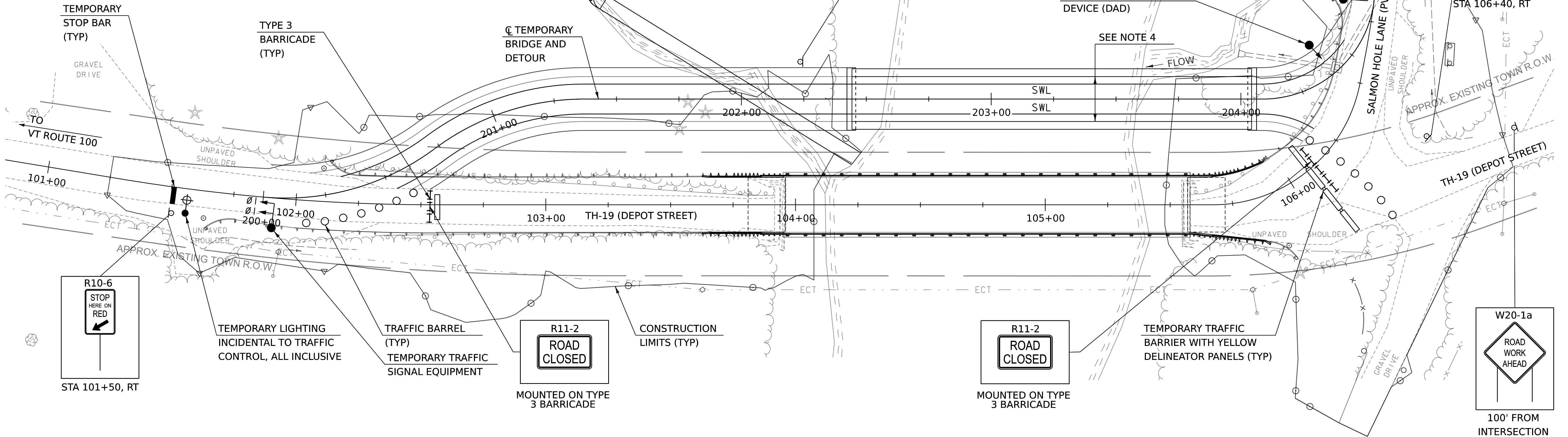
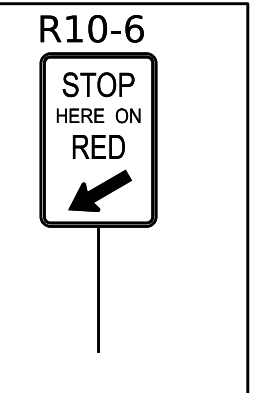
PLOT DATE: 29-MAY-2026  
DRAWN BY: Z.ROUSSEL  
CHECKED BY: M.OOMS  
SHEET 12 OF 41



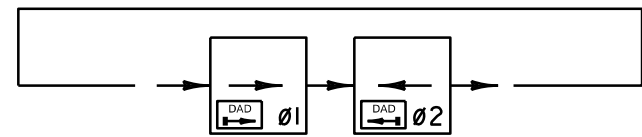
WEST RIVER  
FLOW



TO JAMAICA  
STATE PARK  
(DEAD END)



NEMA STD 80 CONTROLLER



SIGNAL PHASING		
	Ø1	Ø2
TIMING IN SECONDS	→	←
INITIAL INTERVAL	10	10
VEHICLE EXTENSION	3	3
MAX. I	20	20
YELLOW	3	3
ALL RED	26	26
RECALL	MIN	MIN
DETECTOR MEMORY	L	L
FLASH	RED	RED

MAX I: ALL TIME PERIODS

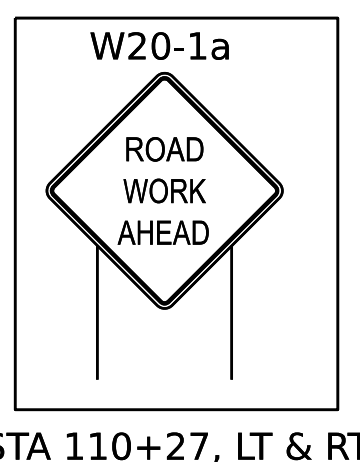
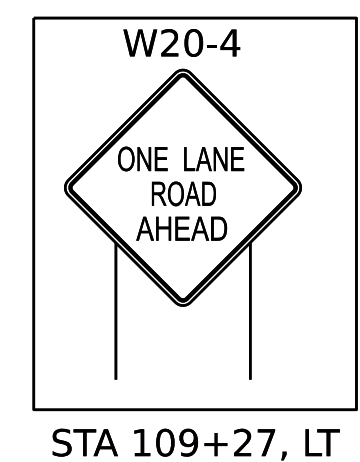
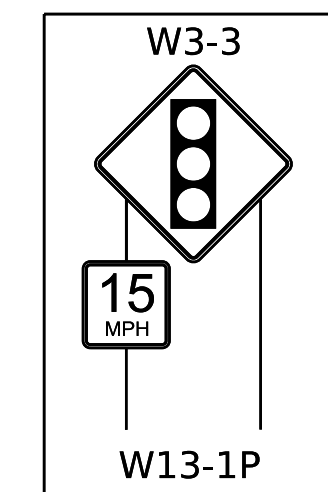
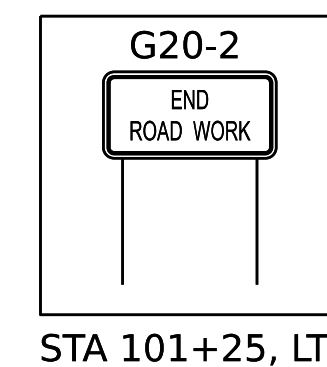
#### SIGNAL TIMING NOTES

- TEMPORARY SIGNAL SHALL PROVIDE MINIMUM RECALL FOR Ø1 AND Ø2 AS THE DAD DOES NOT PROVIDE DETECTION.
- TEMPORARY SIGNAL SHALL PROVIDE BICYCLE DETECTION FOR Ø1 AND Ø2.
- TEMPORARY SIGNAL SHALL BE CAPABLE OF DETECTING SLOW MOVING VEHICLES AND BICYCLES WITHIN THE WORK ZONE TO EXTEND THE ALL RED TIME TO PROVIDE SAFE PASSAGE.

#### NOTES

- ALL COSTS ASSOCIATED WITH TEMPORARY CONSTRUCTION ACCESS SHALL BE INCIDENTAL TO ITEM 528.1000, ONE LANE TEMPORARY BRIDGE.
- TEMPORARY WATER DIVERSION PIPE, STONE FILL TYPE III, INLET, AND OUTLET PROTECTION IS INCIDENTAL TO ITEM 528.1000, ONE LANE TEMPORARY BRIDGE.
- TEMPORARY BRIDGE DESIGN LIVE LOAD SHALL BE HL-93.
- TEMPORARY BRIDGE SHALL HAVE A MINIMUM WIDTH OF 18'-0" MEASURED (TEMPORARY BRIDGE LINE STRIPED FOR 12FT LAND AND TWO 3FT SHOULDERS) FACE OF RAIL TO FACE OF RAIL.
- GEOTEXTILE FOR ROADBED SEPARATOR SHALL BE INSTALLED OVER ALL WETLAND AREAS IMPACTED BY THE TEMPORARY BRIDGE AND APPROACHES AND IS INCIDENTAL TO ITEM 528.1000, ONE LANE TEMPORARY BRIDGE.

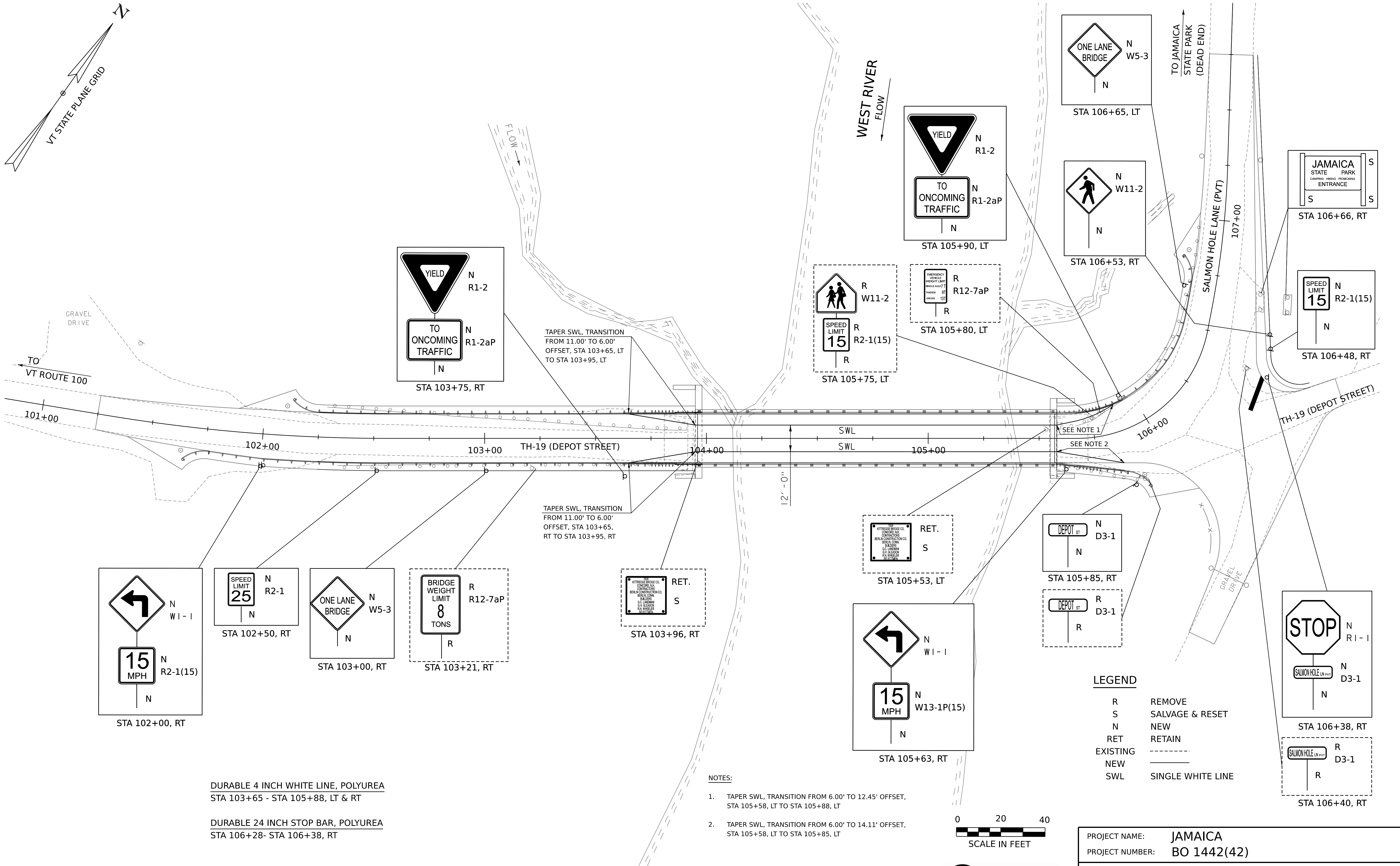
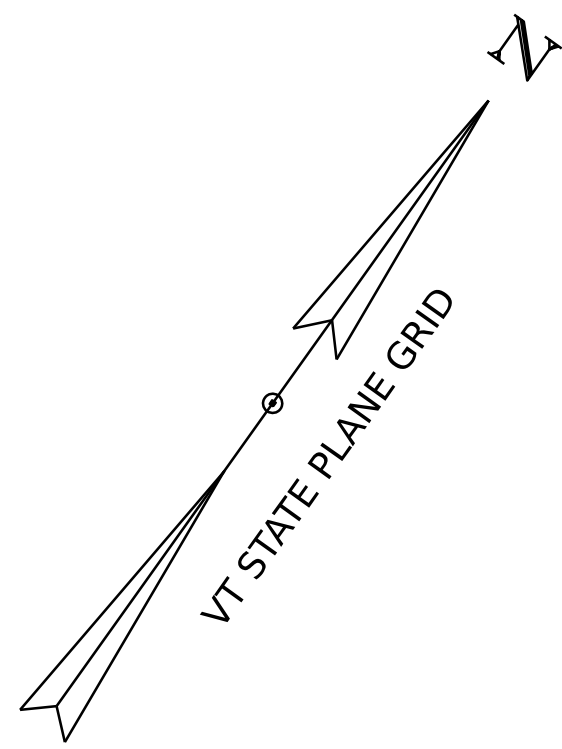
0 20 40  
SCALE IN FEET



PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226bdr_tcp.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: Z.ROUSSEL  
TRAFFIC CONTROL SHEET

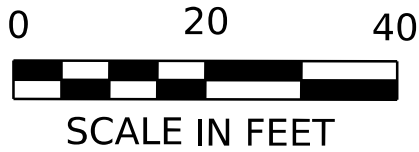
PLOT DATE: 29-MAY-2026  
DRAWN BY: Z.ROUSSEL  
CHECKED BY: M.OOMS  
SHEET 13 OF 41



DURABLE 4 INCH WHITE LINE, POLYUREA  
STA 103+65 - STA 105+88, LT & RT

DURABLE 24 INCH STOP BAR, POLYUREA  
STA 106+28- STA 106+38, RT

- NOTES:
1. TAPER SWL, TRANSITION FROM 6.00' TO 12.45' OFFSET, STA 105+58, LT TO STA 105+88, LT
  2. TAPER SWL, TRANSITION FROM 6.00' TO 14.11' OFFSET, STA 105+58, LT TO STA 105+85, LT



LEGEND	
R	REMOVE
S	SALVAGE & RESET
N	NEW
RET	RETAIN
EXISTING	
NEW	
SWL	SINGLE WHITE LINE

PROJECT NAME:	JAMAICA	FILE NAME:	z19j226bdr_tsl.dgn	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	PROJECT LEADER:	S.JAMES	DRAWN BY:	Z.ROUSSEL
		DESIGNED BY:	Z.ROUSSEL	CHECKED BY:	M.OOMS
		TRAFFIC SIGN AND LINE LAYOUT		SHEET	14 OF 41

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.O.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

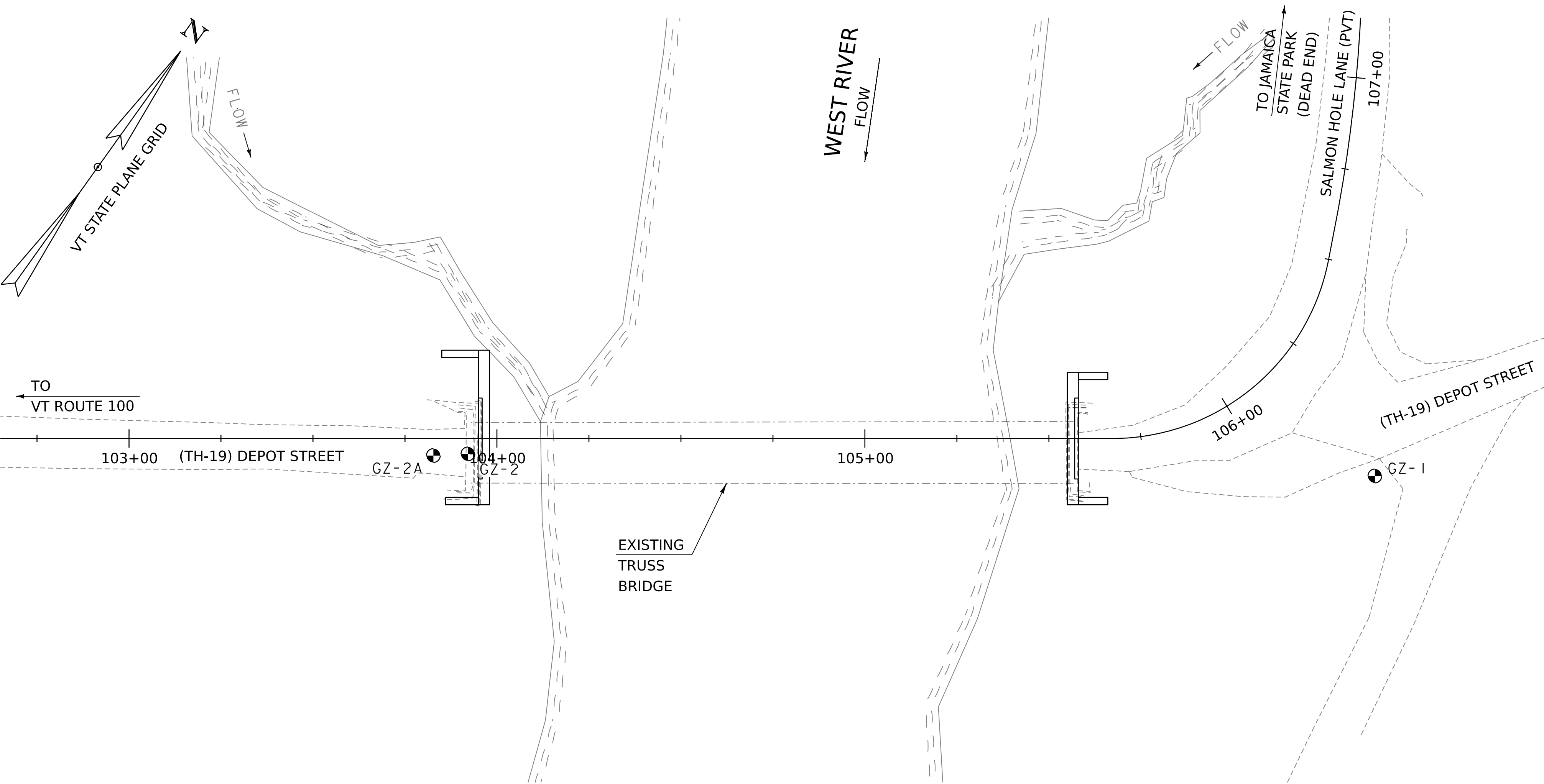
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

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
ROD	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		



BORING LAYOUT

BORING CHART

HOLE NO.	SURV. STATION	OFFSET	NORTHING	EASTING	GROUND ELEV.	ELEV. TLOB
GZ-1	106+15	40'RT	220512.48'	1567630.88	670.0'	630.0'
GZ-2	103+92	4'LT	220374.22	1567426.73	672.0'	-
GZ-2A	103+83	5'LT	220368.41	1567419.35	672.0'	-

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.

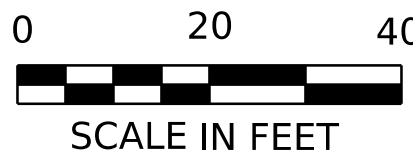
**FLOWING SAND** - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.

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

**DIP** - Inclination of bed with a horizontal plane.

GENERAL NOTES

- The subsurface explorations shown herein were made August 2024 and overseen by GZA GeoEnvironmental, Inc.
- 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.

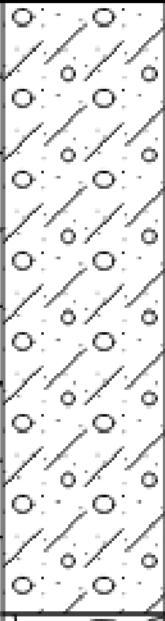
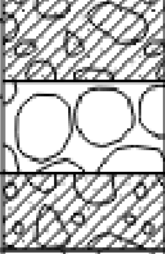
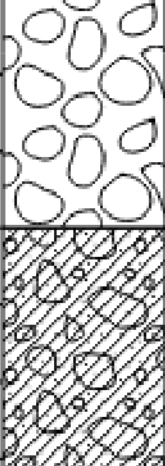
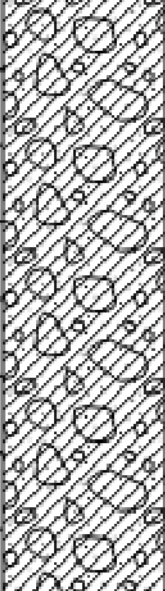


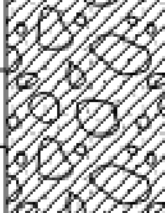
PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226bor.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: M.OOMS  
BORING INFORMATION SHEET

PLOT DATE: 29-MAY-2026  
DRAWN BY: B.LUNDRIGAN  
CHECKED BY: K.LAVIGNE  
SHEET 15 OF 41

BOTTOM OF ABUTMENT #2 PILE CAP  
 EL 658.41

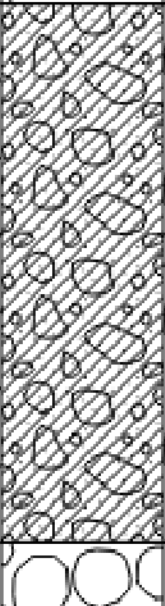
		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>GZ-1</u> Page No.: <u>1 of 2</u> Pin No.: _____ Checked By: <u>T. Dykstra</u>													
Boring Crew: <u>M. Materazzo (NEBC), K. Ashe (GZA)</u> Date Started: <u>8/28/24</u> Date Finished: <u>8/29/24</u> VTSPG NAD83: <u>N 220512.48 ft    E 1567630.88 ft</u> Station: <u>16+07</u> Offset: <u>RT 23</u> Ground Elevation: <u>670.0 ft</u>		Casing    Sampler Type: <u>WASH BORE</u> <u>SS</u> I.D.: <u>4 in</u> <u>2 in</u> Hammer Wt: <u>140 lb.</u> <u>140 lb</u> Hammer Fall: <u>30 in.</u> <u>30 in</u> Hammer/Rod Type: <u>Auto/AWJ</u> Rig: <u>Geoprobe 722DT</u> <u>C_E = 1.3</u>		Groundwater Observations <table> <tr> <th>Date</th> <th>Depth (ft)</th> <th>Notes</th> </tr> <tr> <td>08/29/24</td> <td>12.9</td> <td>15 HR</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>				Date	Depth (ft)	Notes	08/29/24	12.9	15 HR						
Date	Depth (ft)	Notes																	
08/29/24	12.9	15 HR																	
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %												
5		Classification: (Modified Burmister), S-1 (0.0 ft - 2.0 ft): Medium dense, brown, fine to coarse SAND, little Gravel, little Silt (A-1-b), Rec. = 1.1 ft, SAND	4-10-6-8 (16)																
		2.0 ft - 5.0 ft, SAND																	
		Classification: (Modified Burmister), S-2, (5.0 ft - 7.0 ft): Medium dense, brown, fine SAND, some Silt, little Gravel (A-2-4), Rec. = 1.0 ft, SAND																	
		7.0 ft - 8.0 ft, SAND																	
10		8.0 ft - 9.0 ft, BOULDER	3-5-9-18 (14)																
		9.0 ft - 10.0 ft, GLACIAL TILL																	
		Classification: (Modified Burmister), S-3, (10.0 ft - 10.8 ft): Very dense, brown, fine to coarse SAND, and Gravel, little Silt (A-1-b), Rec. = 0.8 ft, GLACIAL TILL																	
		10.8 ft - 12.0 ft, BOULDER																	
15		12.0 ft - 13.0 ft, GLACIAL TILL	18-65																
		13.0 ft - 16.0 ft, COBBLES and BOULDER																	
		Classification: (Modified Burmister), S-4, (16.0 ft - 18.0 ft): Very dense, brown, fine to coarse SAND and Gravel, little Silt (A-1-b), Rec. = 1.0 ft, GLACIAL TILL																	
		18.0 ft - 20.0 ft, GLACIAL TILL																	
20		Classification: (Modified Burmister), S-5, (20.0 ft - 20.3 ft): Very dense, brown, fine to medium SAND, some Gravel, some Silt (A-2-4), Rec. = 0.1 ft, GLACIAL TILL	65/4"																
		20.3 ft - 25.0 ft, GLACIAL TILL																	
25		Classification: (Modified Burmister), S-6, (25.0 ft - 25.4 ft): Very dense, brown, fine to medium SAND, some Gravel, some Silt (A-2-4), Rec. = 0.1 ft, GLACIAL TILL	75/5"																
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.																			

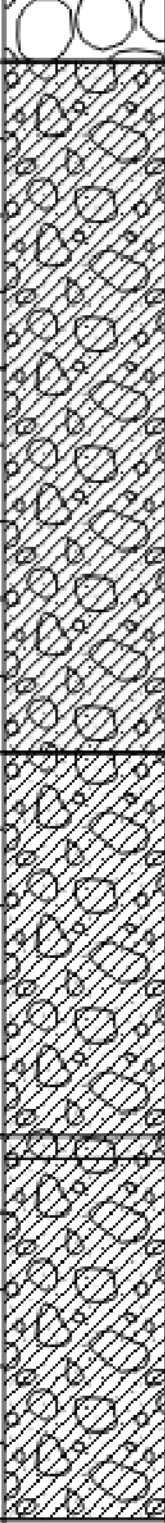
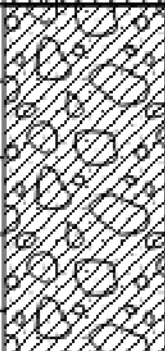
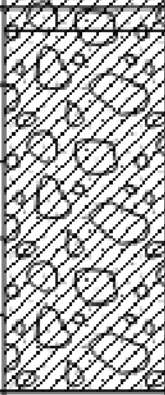
		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>GZ-1</u> Page No.: <u>2 of 2</u> Pin No.: _____ Checked By: <u>T. Dykstra</u>													
Boring Crew: <u>M. Materazzo (NEBC), K. Ashe (GZA)</u> Date Started: <u>8/28/24</u> Date Finished: <u>8/29/24</u> VTSPG NAD83: <u>N 220512.48 ft    E 1567630.88 ft</u> Station: <u>16+07</u> Offset: <u>RT 23</u> Ground Elevation: <u>670.0 ft</u>		Casing    Sampler Type: <u>WASH BORE</u> <u>SS</u> I.D.: <u>4 in</u> <u>2 in</u> Hammer Wt: <u>140 lb.</u> <u>140 lb</u> Hammer Fall: <u>30 in.</u> <u>30 in</u> Hammer/Rod Type: <u>Auto/AWJ</u> Rig: <u>Geoprobe 722DT</u> <u>C_E = 1.3</u>		Groundwater Observations <table> <tr> <th>Date</th> <th>Depth (ft)</th> <th>Notes</th> </tr> <tr> <td>08/29/24</td> <td>12.9</td> <td>15 HR</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>				Date	Depth (ft)	Notes	08/29/24	12.9	15 HR						
Date	Depth (ft)	Notes																	
08/29/24	12.9	15 HR																	
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %												
35		Classification: (Modified Burmister), S-7, (30.0 ft - 30.2 ft): Very dense, gray, fine to coarse SAND, some Gravel, little Silt (A-1-b), Rec. = 0.1 ft, GLACIAL TILL	100/2"																
		30.2 ft - 40.0 ft, GLACIAL TILL																	
40		No recovery, Rec. = 0.0 ft, 40.0 ft - 40.1 ft, PROBABLE BEDROCK	100/1"																
45	Hole stopped @ 44.0 ft																		
50	Remarks: 1. Casing refusal at approximately 8 ft. below ground surface (bgs), roll drill rod to 10 ft. bgs. 2. Spoon refusal at 10.8 ft. bgs, decreased casing resistance at approximately 12 ft. bgs. 3. Casing refusal at approximately 13 ft. bgs, advance roller bit through cobbles and boulder to 16 ft. bgs. 4. Casing not straight enough to advance hole past 18 ft. bgs, casing pulled and boring relocated 3 ft. east. 5. Increase in resistance at approximately 40 ft. bgs. 6. Advance roller bit into probable bedrock from approximately 40.1 ft. bgs. 7. Unable to advance boring with drill rig limitation, casing pulled and boring backfilled.																		
55																			
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.																			

PROJECT NAME:	JAMAICA
PROJECT NUMBER:	BO 1442(42)
FILE NAME: z19j226log.dgn	PLOT DATE: 29-MAY-2026
PROJECT LEADER: S.JAMES	DRAWN BY: M.PARATORE
DESIGNED BY: M.OOMS	CHECKED BY: Z.ROUSSEL
BORING LOGS 1	SHEET 16 OF 41



BOTTOM OF ABUTMENT #1 PILE CAP  
 EL 656.96

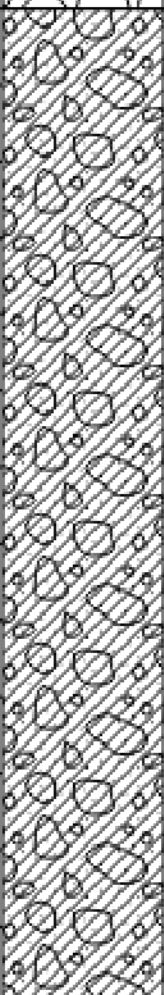
 STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG <b>Jamaica BO 1442(42)</b> Depot Road, Bridge No. 32 Jamaica, VT		Boring No.: <b>GZ-2</b> Page No.: <b>1 of 2</b> Pin No.: Checked By: <b>T. Dykstra</b>													
Boring Crew: <b>M. Materazzo (NEBC), I. Colcord (GZA)</b> Date Started: <b>4/07/25</b> Date Finished: <b>4/08/25</b> VTSPG NAD83: <b>N 220374.22 ft E 1567426.73 ft</b> Station: <b>13+71</b> Offset: <b>LT 2</b> Ground Elevation: <b>672.0 ft</b>		Casing Sampler Type: <b>WASH BORE SS</b> I.D.: <b>4 in 2 in</b> Hammer Wt: <b>140 lb. 140 lb</b> Hammer Fall: <b>30 in. 30 in</b> Hammer/Rod Type: <b>Auto/AWJ</b> Rig: <b>GtechDrill GT-8 C_E = 1.3</b>		Groundwater Observations <table> <tr> <th>Date</th> <th>Depth (ft)</th> <th>Notes</th> </tr> <tr> <td>04/07/25</td> <td>13.1</td> <td>20 Min.</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		Date	Depth (ft)	Notes	04/07/25	13.1	20 Min.						
Date	Depth (ft)	Notes															
04/07/25	13.1	20 Min.															
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %										
5		0.0 ft - 0.3 ft, ASPHALT	6-5-7-15 (12)														
		Visual Description, (Modified Burmister), Medium dense, dark brown to light brown, fine to coarse SAND, some Gravel, trace Silt (A-1-a)., Rec. = 0.9 ft, SAND															
		Classification:., (Modified Burmister), Dense, brown, fine to coarse SAND, some Gravel, little Silt (A-1-b)., Rec. = 1.0 ft, SAND	22-17-17-16 (34)														
		Visual Description, (Modified Burmister), Medium dense, light brown, fine to coarse SAND, some Gravel, little Silt (A-1-b)., Rec. = 0.6 ft, SAND	10-9-12-11 (21)														
		Visual Description, (Modified Burmister), Medium dense, dark brown, fine to coarse SAND, little Gravel, trace Silt (A-1-a)., Rec. = 0.25 ft, SAND	12-14-11-9 (25)														
		Classification:., (Modified Burmister), Loose, brown, fine SAND, some Silt (A-2-4)., Rec. = 1.17 ft, SAND	1-2-3-1 (5)														
		10.3 ft - 15.0 ft, SAND															
		Visual Description, (Modified Burmister), Dense, light brown with orange, fine to medium SAND, little Silt, Boulder fragments in end of sample (A-1-b)., Rec. = 0.8 ft, SAND	8-22-20-21 (42)														
		17.0 ft - 22.0 ft, BOULDER															
		25		Visual Description, (Modified Burmister), Very dense, gray, SILT, some fine to coarse Sand, trace Gravel (A-4)., Rec. = 0.6 ft, GLACIAL TILL	54-45/2"												
22.7 ft - 25.0 ft, GLACIAL TILL																	
Visual Description, (Modified Burmister), Very dense, gray, SILT, some fine to coarse Sand, trace Gravel, Rock fragments in SS tip (A-4)., Rec. = 0.4 ft	60/5"																
25.4 ft - 29.0 ft, GLACIAL TILL																	
		29.0 ft - 31.0 ft, BOULDER															
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.																	

 STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG <b>Jamaica BO 1442(42)</b> Depot Road, Bridge No. 32 Jamaica, VT		Boring No.: <b>GZ-2</b> Page No.: <b>2 of 2</b> Pin No.: Checked By: <b>T. Dykstra</b>													
Boring Crew: <b>M. Materazzo (NEBC), I. Colcord (GZA)</b> Date Started: <b>4/07/25</b> Date Finished: <b>4/08/25</b> VTSPG NAD83: <b>N 220374.22 ft E 1567426.73 ft</b> Station: <b>13+71</b> Offset: <b>LT 2</b> Ground Elevation: <b>672.0 ft</b>		Casing Sampler Type: <b>WASH BORE SS</b> I.D.: <b>4 in 2 in</b> Hammer Wt: <b>140 lb. 140 lb</b> Hammer Fall: <b>30 in. 30 in</b> Hammer/Rod Type: <b>Auto/AWJ</b> Rig: <b>GtechDrill GT-8 C_E = 1.3</b>		Groundwater Observations <table> <tr> <th>Date</th> <th>Depth (ft)</th> <th>Notes</th> </tr> <tr> <td>04/07/25</td> <td>13.1</td> <td>20 Min.</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>		Date	Depth (ft)	Notes	04/07/25	13.1	20 Min.						
Date	Depth (ft)	Notes															
04/07/25	13.1	20 Min.															
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %										
35		31.0 ft - 32.0 ft, GLACIAL TILL															
		Classification:., (Modified Burmister), Very dense, olive, fine SAND and Silt, trace Gravel (A-4), Rec. = 1.25 ft, GLACIAL TILL	46-60-52-62 (112)														
		34.0 ft - 35.0 ft, GLACIAL TILL															
		Visual Description, (Modified Burmister), Very dense, gray, fine to coarse SAND, little Silt, trace Gravel (A-2-4)., Rec. = 0.6 ft, GLACIAL TILL	45-40/2"														
		35.7 ft - 40.0 ft, GLACIAL TILL															
40		Visual Description, No recovery., Rec. = 0.0 ft, GLACIAL TILL	45/0"														
		40.01 ft - 50.0 ft, GLACIAL TILL															
45		Visual Description, (Modified Burmister), Very dense, gray, fine to coarse SAND, some Silt, trace Gravel (A-2-4)., Rec. = 0.25 ft, GLACIAL TILL	50/3"														
50		Hole stopped @ 50.0 ft															
55		Remarks: 1. Casing refusal at approximately 17 ft. below ground surface (bgs), roll drill rod to 22 ft. bgs. 2. Boulder from approximately 19 to 21 ft. bgs. 3. Boulder fragments in drill wash water from approximately 29 to 31 ft. bgs. 4. Unable to advance, boring terminated at approximately 50 ft. bgs. 5. Offset boring 9 ft. to the southwest.															
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.																	

PROJECT NAME:	JAMAICA
PROJECT NUMBER:	BO 1442(42)
FILE NAME: z19j226log.dgn	PLOT DATE: 29-MAY-2026
PROJECT LEADER: S.JAMES	DRAWN BY: M.PARATORE
DESIGNED BY: M.OOMS	CHECKED BY: Z.ROUSSEL
BORING LOGS 2	SHEET 17 OF 41



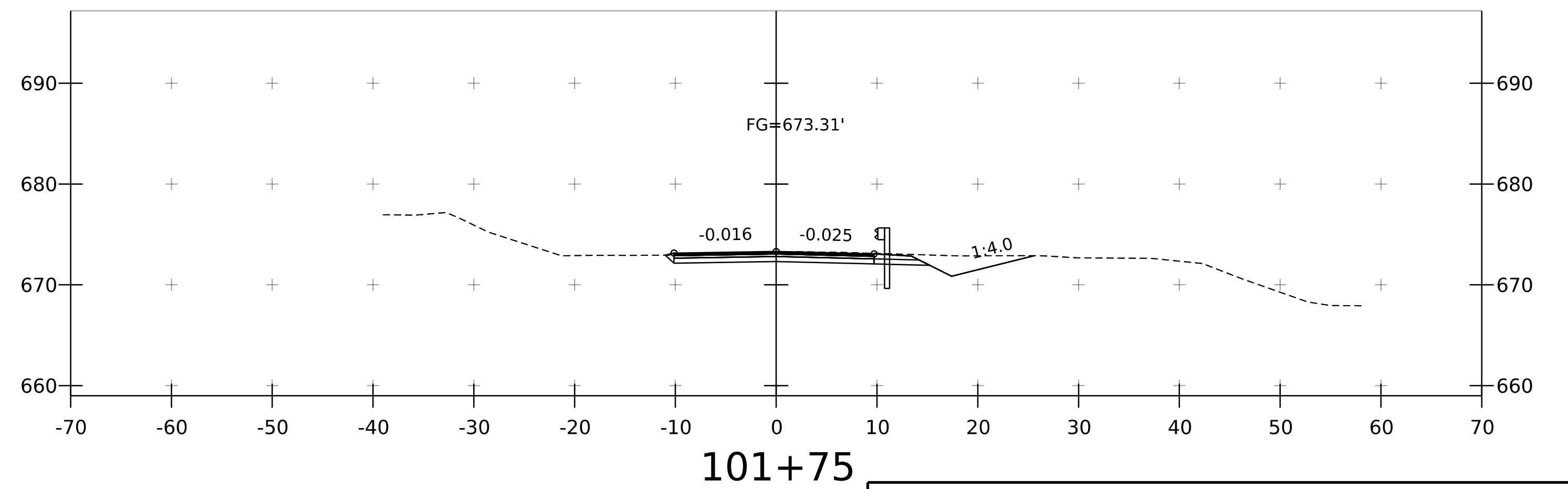
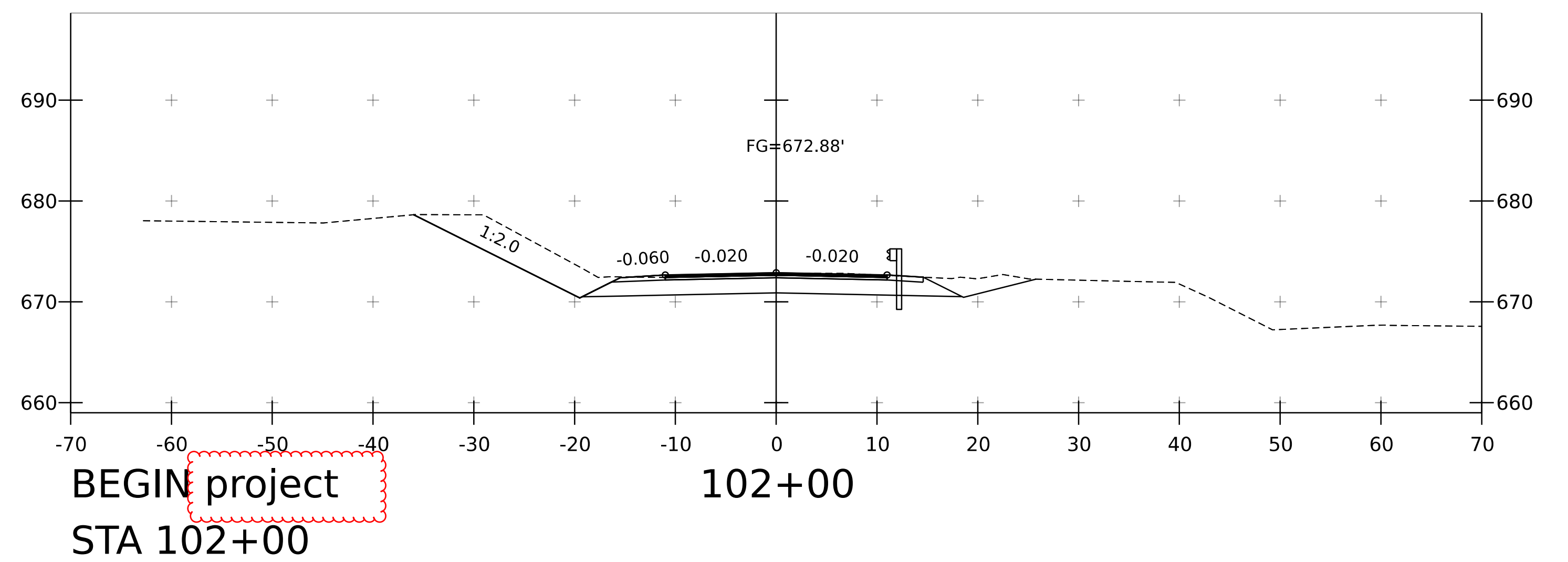
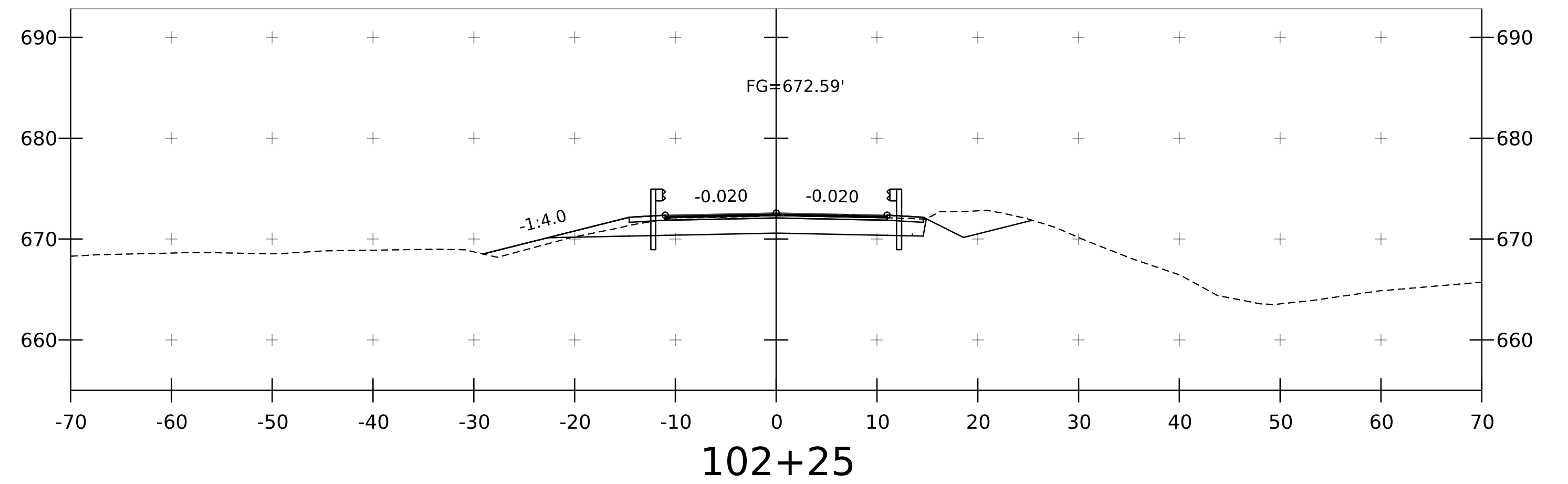
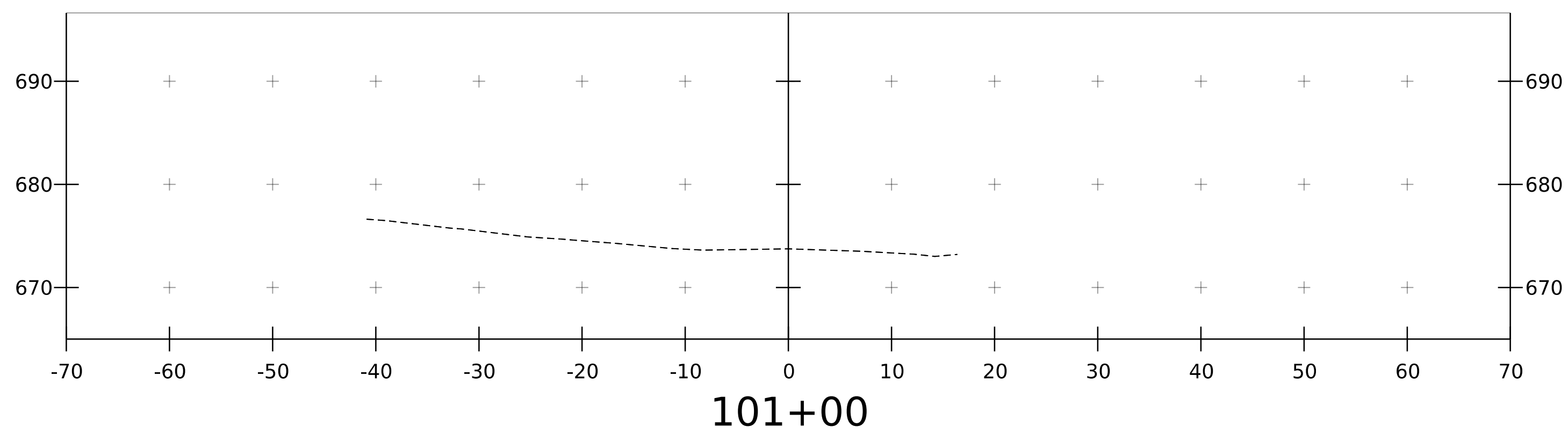
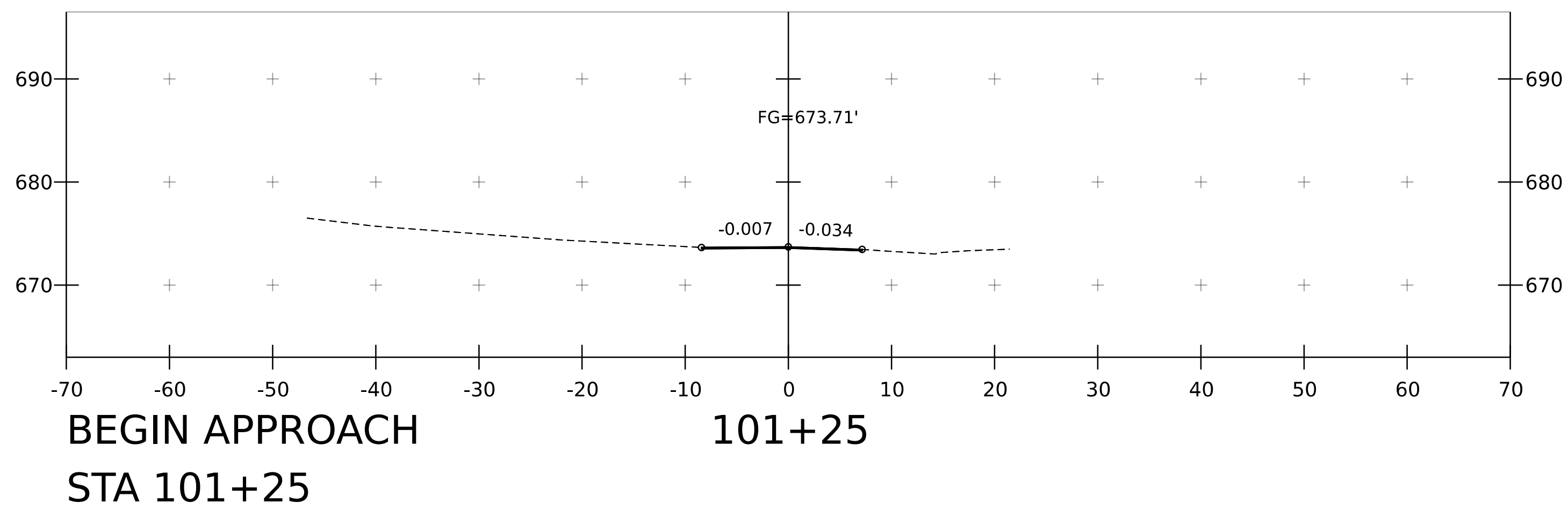
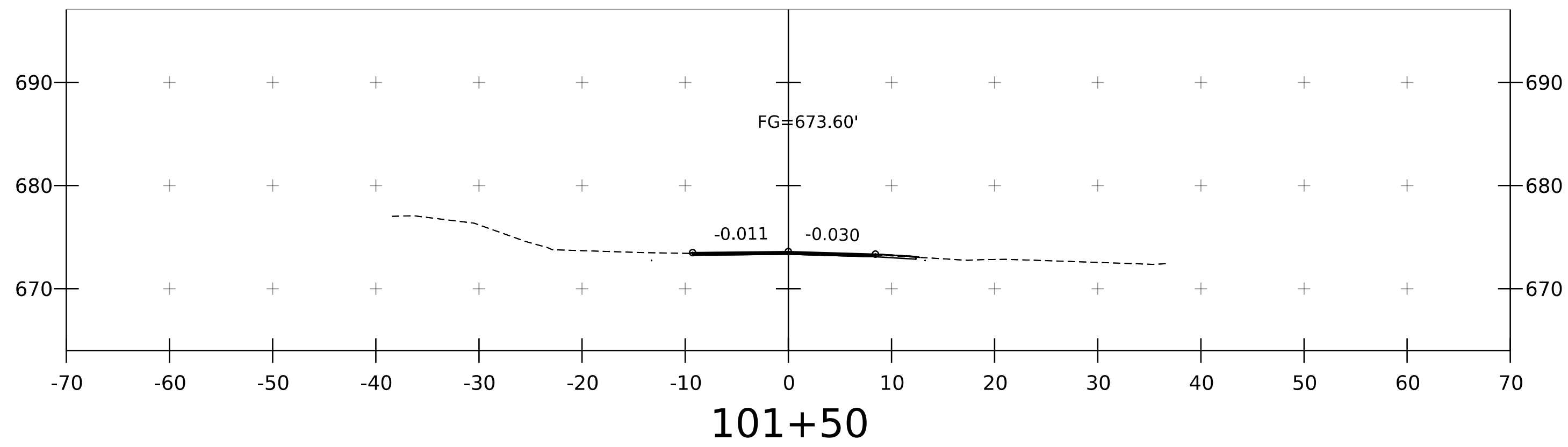
BOTTOM OF ABUTMENT #1 PILE CAP  
EL 656.96

		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>GZ-2A</u>		
				Jamaica BO 1442(42) Depot Road, Bridge No. 32 Jamaica, VT		Page No.: <u>1 of 2</u>		
						Pin No.: _____		
						Checked By: <u>T. Dykstra</u>		
Boring Crew: <u>M. Materazzo (NEBC), I. Colcord (GZA)</u>		Casing    Sampler		Groundwater Observations				
Date Started: <u>4/08/25</u> Date Finished: <u>4/09/25</u>		Type: <u>WASH BORE</u> <u>SS</u>		Date    Depth (ft)    Notes				
VTSPG NAD83: <u>N 220368.41 ft    E 1567419.35 ft</u>		I.D.: <u>4 in</u> <u>2 in</u>						
Station: <u>13+62</u> Offset: <u>LT 1</u>		Hammer Wt: <u>140 lb.</u> <u>140 lb</u>						
Ground Elevation: <u>672.0 ft</u>		Hammer Fall: <u>30 in.</u> <u>30 in</u>						
		Hammer/Rod Type: <u>Auto/AWJ</u>						
		Rig: <u>GtechDrill GT-8</u> <u>C_E = 1.3</u>						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
5		Assumed, For Soil Descriptions see GZ-2, SAND						
10								
15		Assumed, BOULDER						
20		Assumed, GLACIAL TILL						
25								
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.						

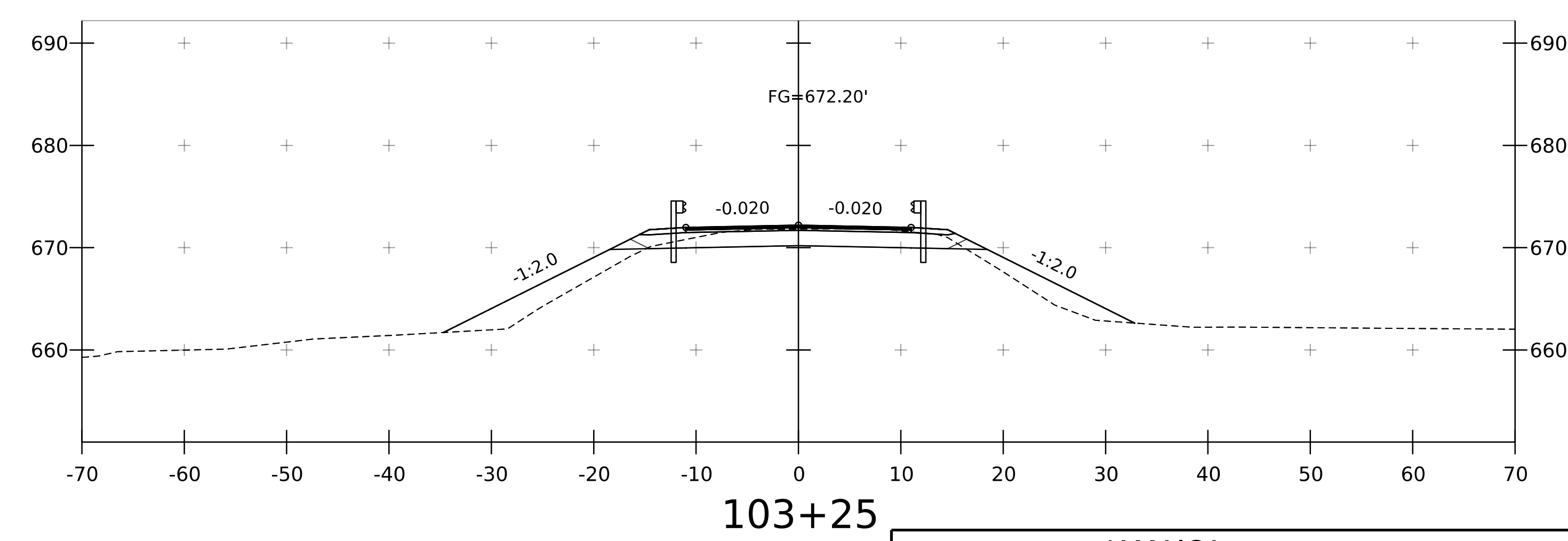
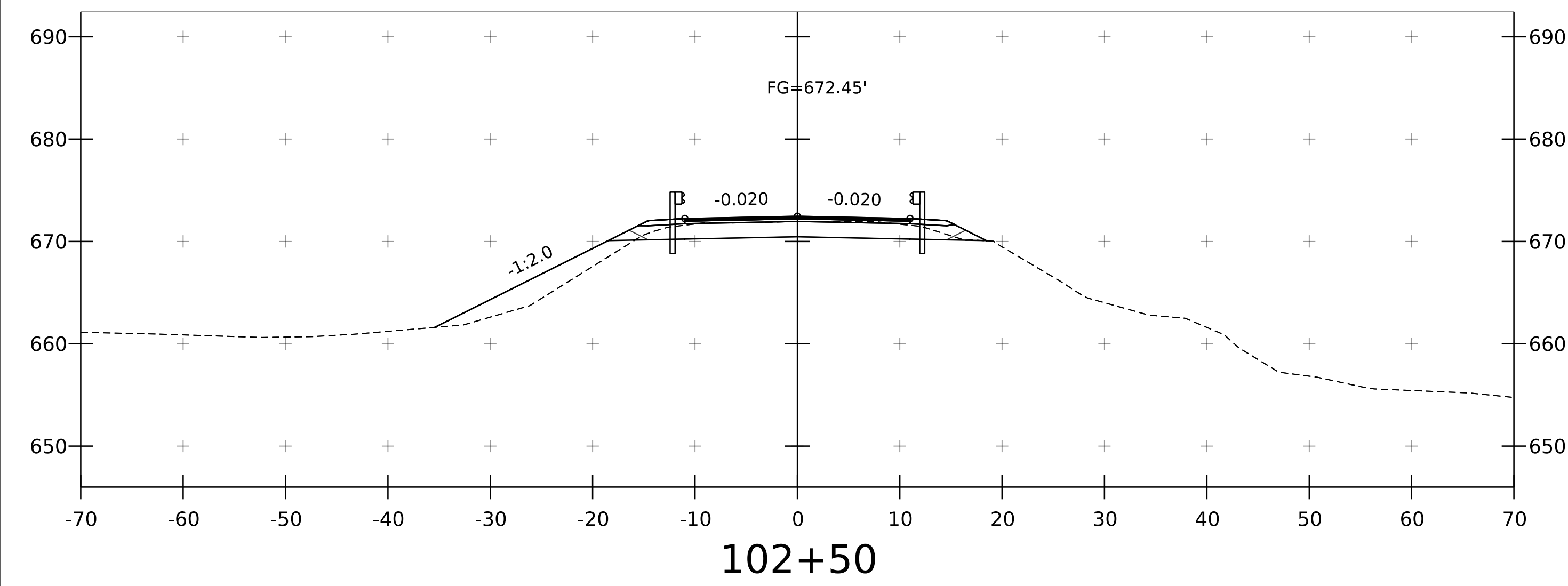
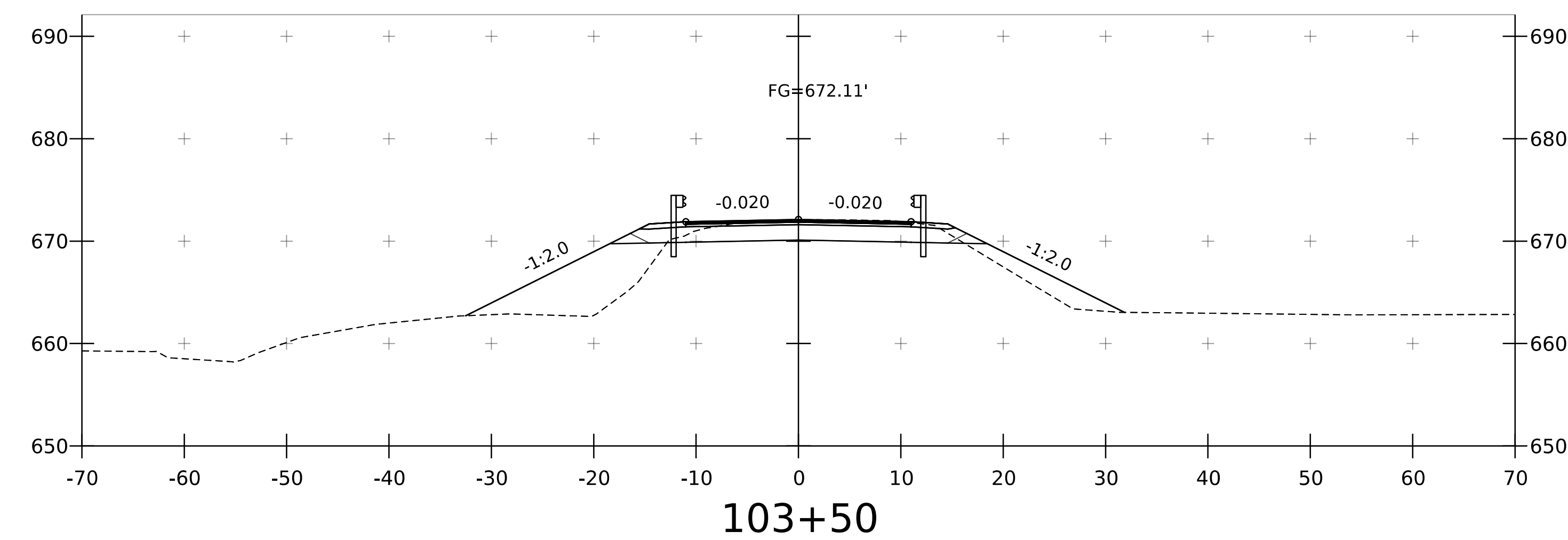
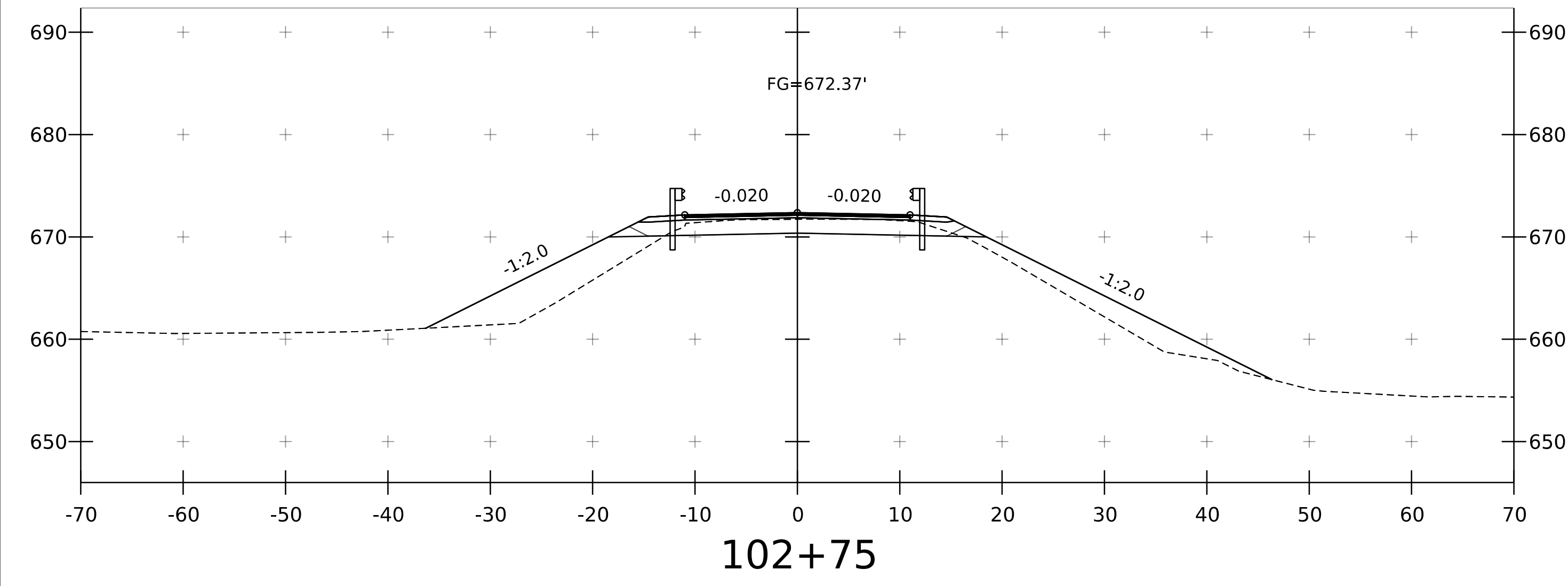
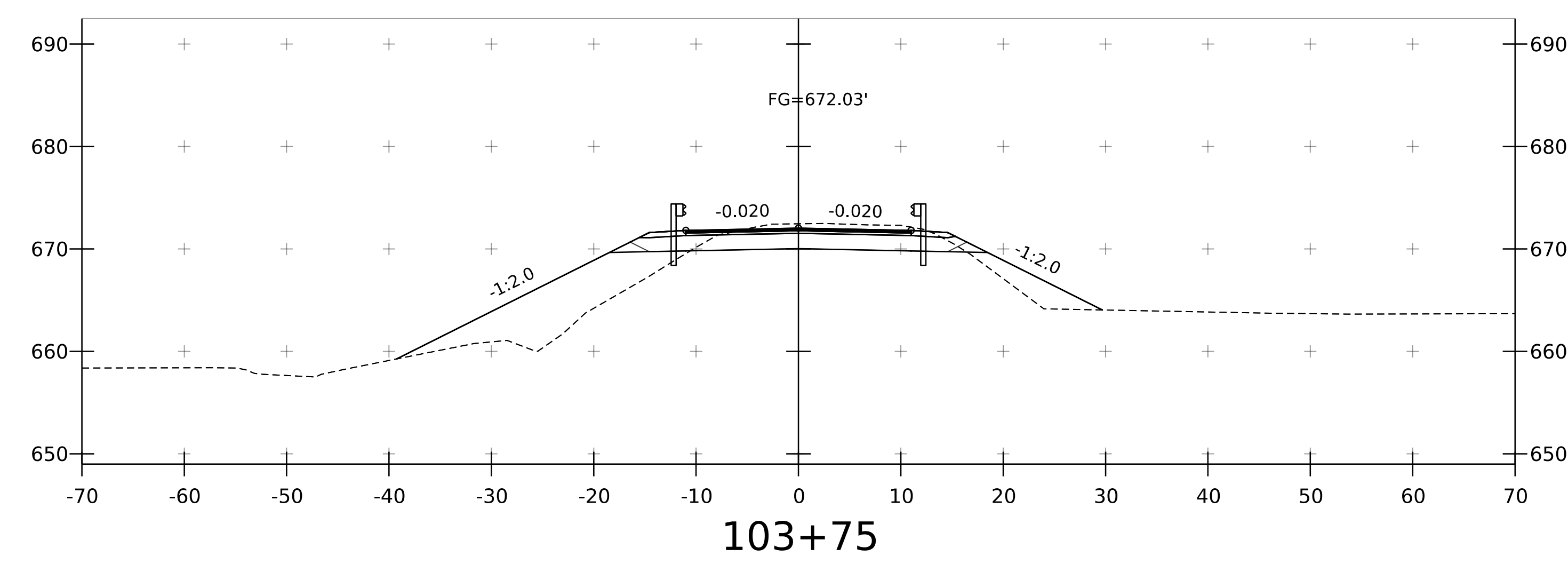
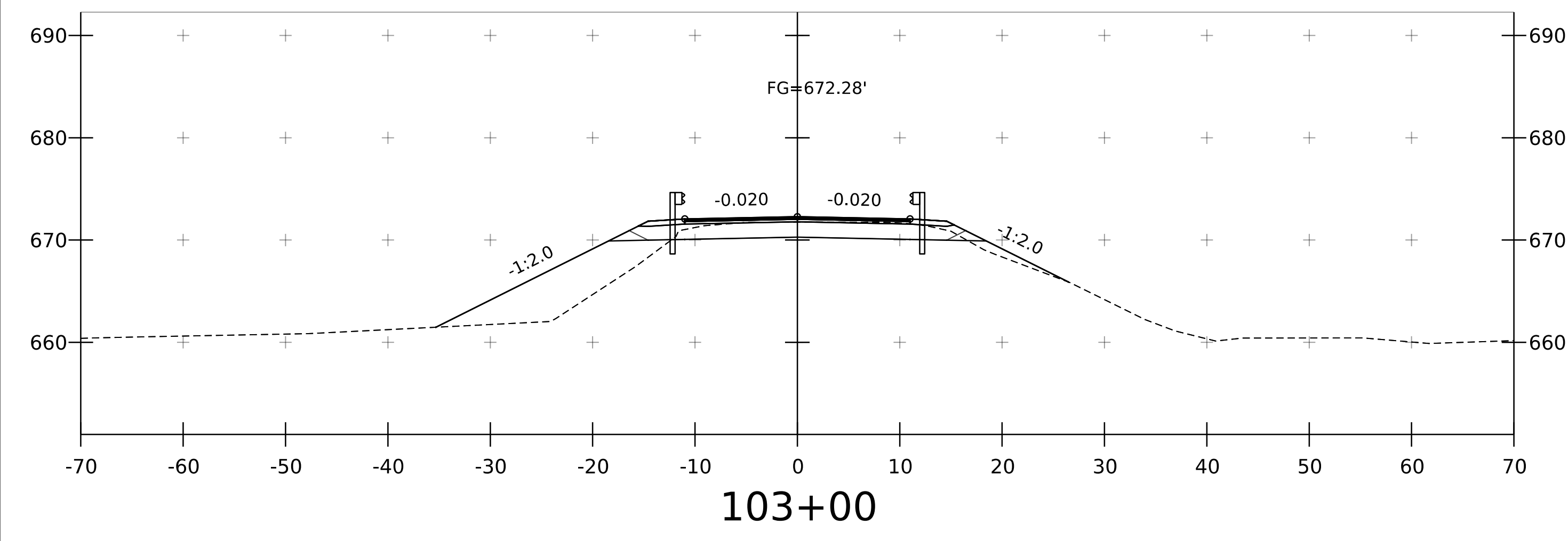
		STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY		BORING LOG		Boring No.: <u>GZ-2A</u>		
				Jamaica BO 1442(42) Depot Road, Bridge No. 32 Jamaica, VT		Page No.: <u>2 of 2</u>		
						Pin No.: _____		
						Checked By: <u>T. Dykstra</u>		
Boring Crew: <u>M. Materazzo (NEBC), I. Colcord (GZA)</u>		Casing    Sampler		Groundwater Observations				
Date Started: <u>4/08/25</u> Date Finished: <u>4/09/25</u>		Type: <u>WASH BORE</u> <u>SS</u>		Date    Depth (ft)    Notes				
VTSPG NAD83: <u>N 220368.41 ft    E 1567419.35 ft</u>		I.D.: <u>4 in</u> <u>2 in</u>						
Station: <u>13+62</u> Offset: <u>LT 1</u>		Hammer Wt: <u>140 lb.</u> <u>140 lb</u>						
Ground Elevation: <u>672.0 ft</u>		Hammer Fall: <u>30 in.</u> <u>30 in</u>						
		Hammer/Rod Type: <u>Auto/AWJ</u>						
		Rig: <u>GtechDrill GT-8</u> <u>C_E = 1.3</u>						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)		Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
								
35		Hole stopped @ 31.5 ft						
40								
45								
50								
55								
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.						



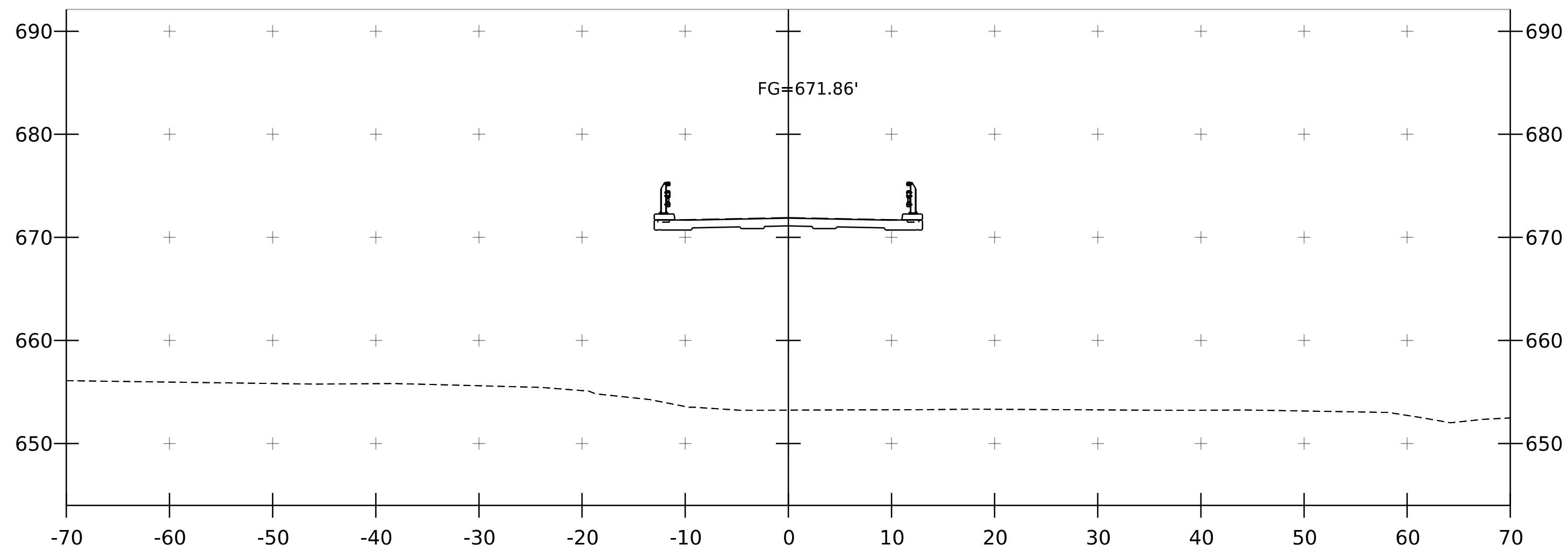
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PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	M.PARATORE
FILE NAME:	z19j226log.dgn	CHECKED BY:	Z.ROUSSEL
PROJECT LEADER:	S.JAMES	SHEET	18 OF 41
DESIGNED BY:	M.OOMS		
BORING LOGS 3			



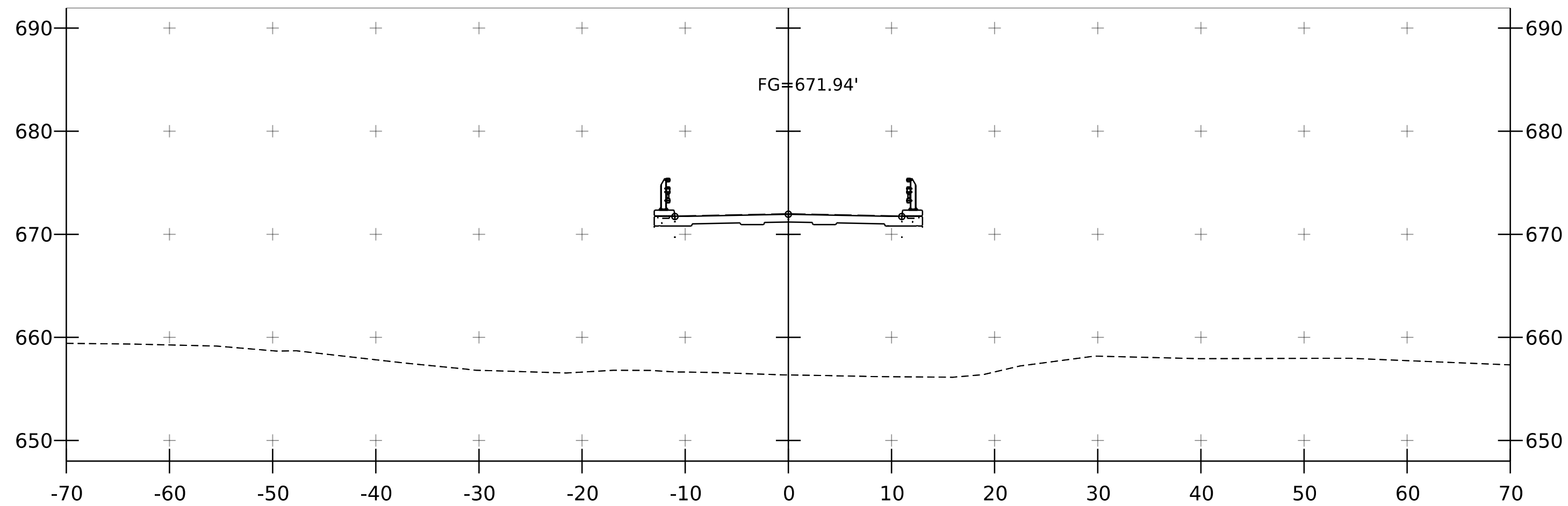
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PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	Z.ROUSSEL
FILE NAME:	z19j226xs1.dgn	CHECKED BY:	K.LAVIGNE
PROJECT LEADER:	S.JAMES	SHEET	19 OF 41
DESIGNED BY:	Z.ROUSSEL		
TH-19 CROSS SECTIONS 1			



PROJECT NAME:	JAMAICA	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	Z.ROUSSEL
FILE NAME:	z19j226xs1.dgn	CHECKED BY:	K.LAVIGNE
PROJECT LEADER:	S.JAMES	SHEET	20 OF 41
DESIGNED BY:	Z.ROUSSEL		
TH-19 CROSS SECTIONS 2			

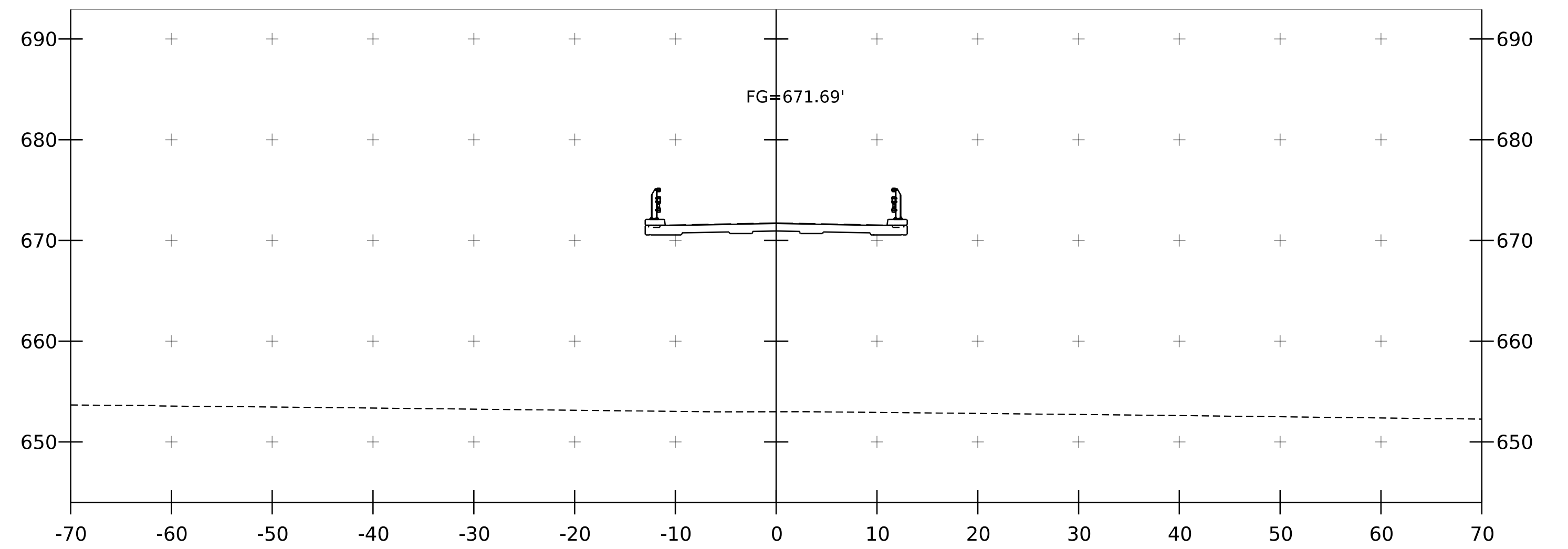


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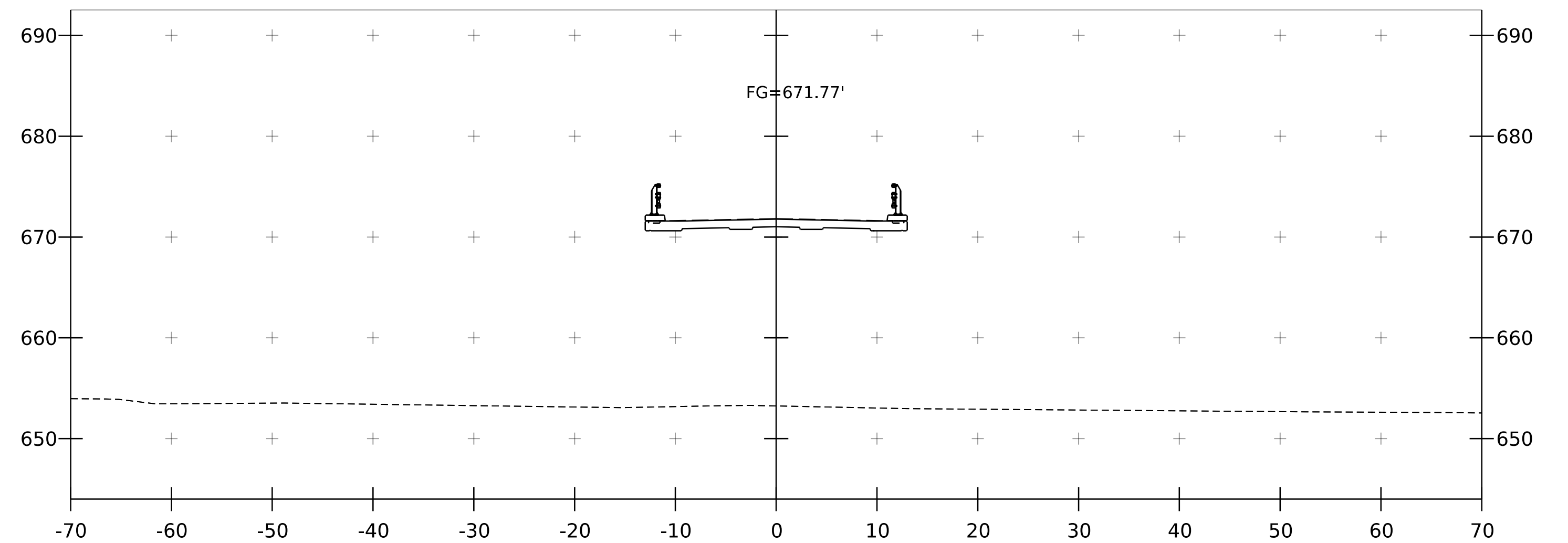


104+00

BEGIN BRIDGE  
STA 103+96



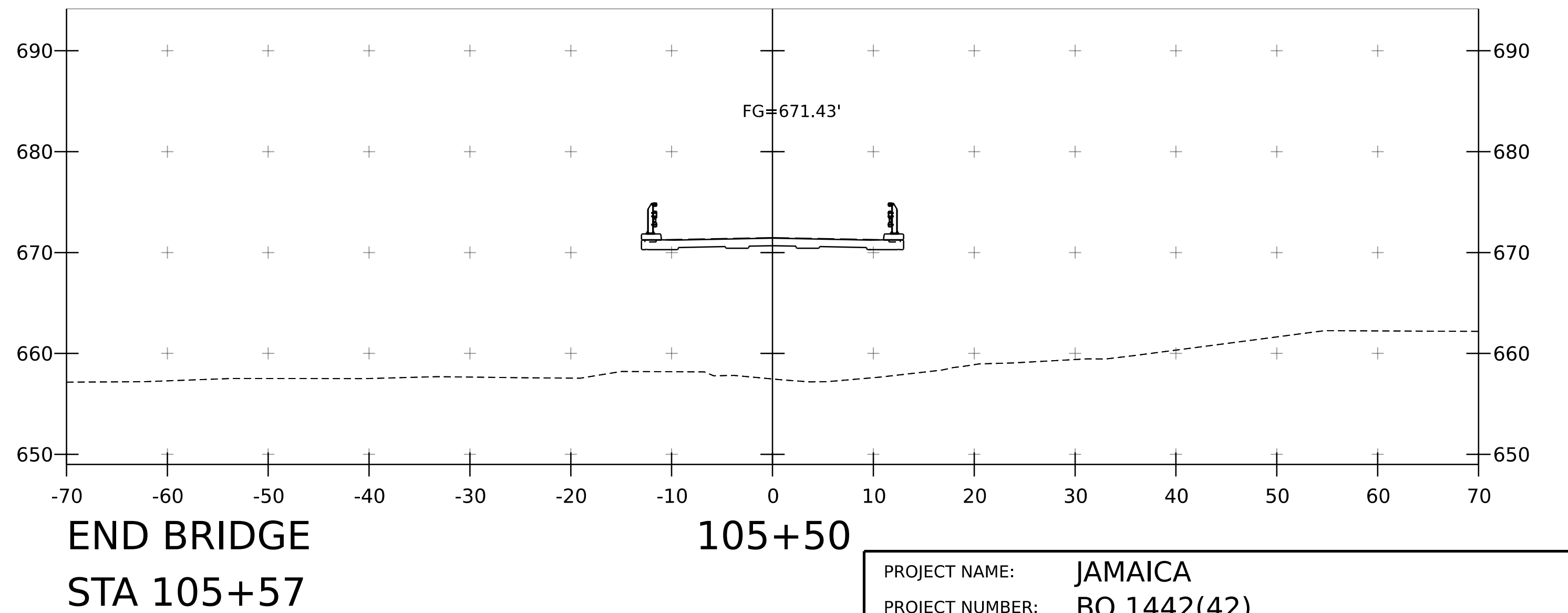
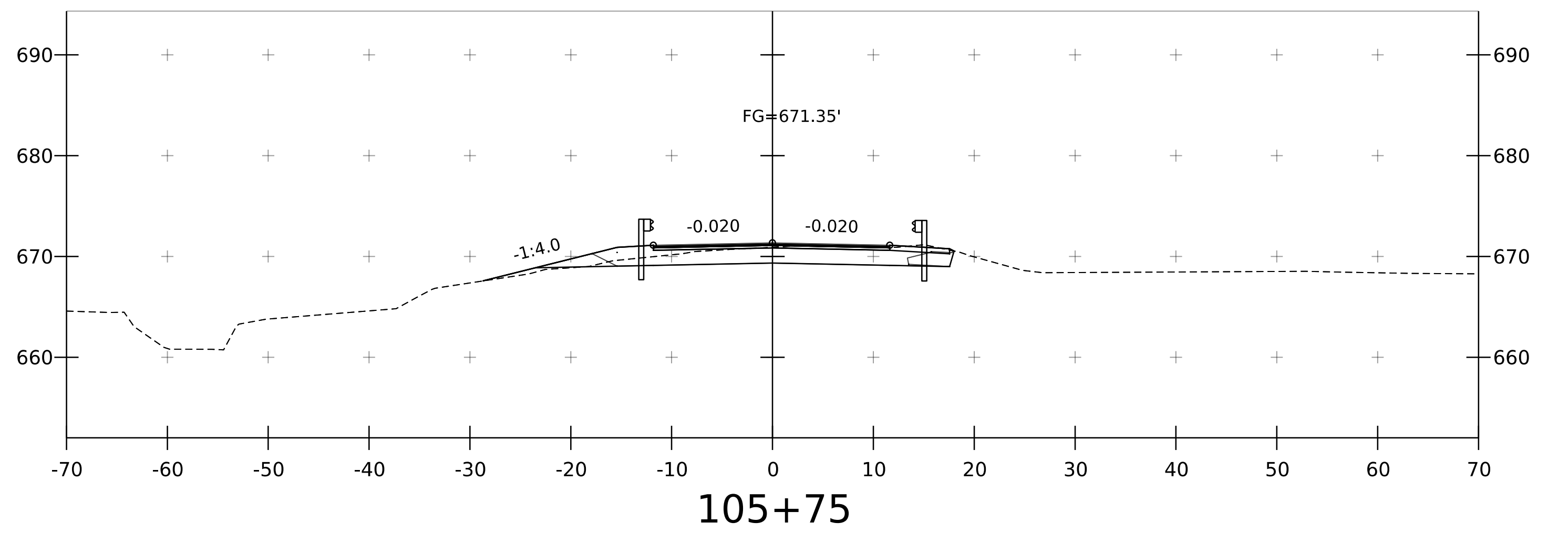
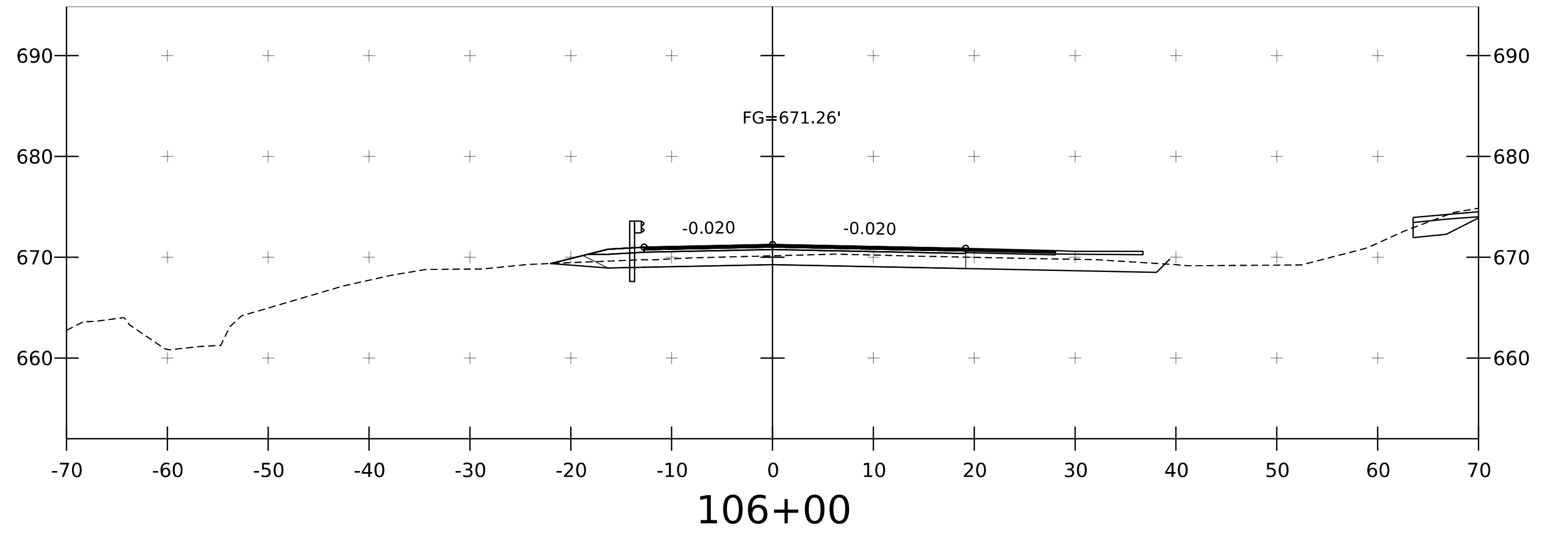
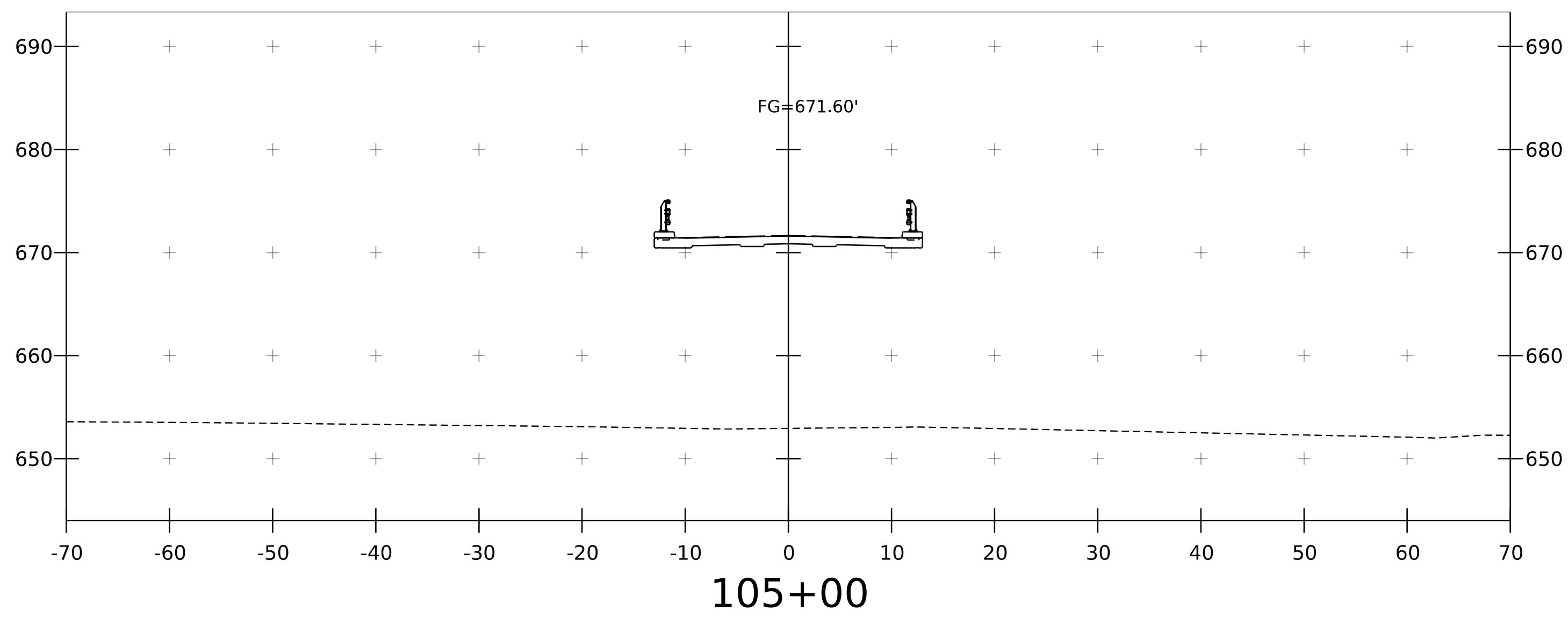
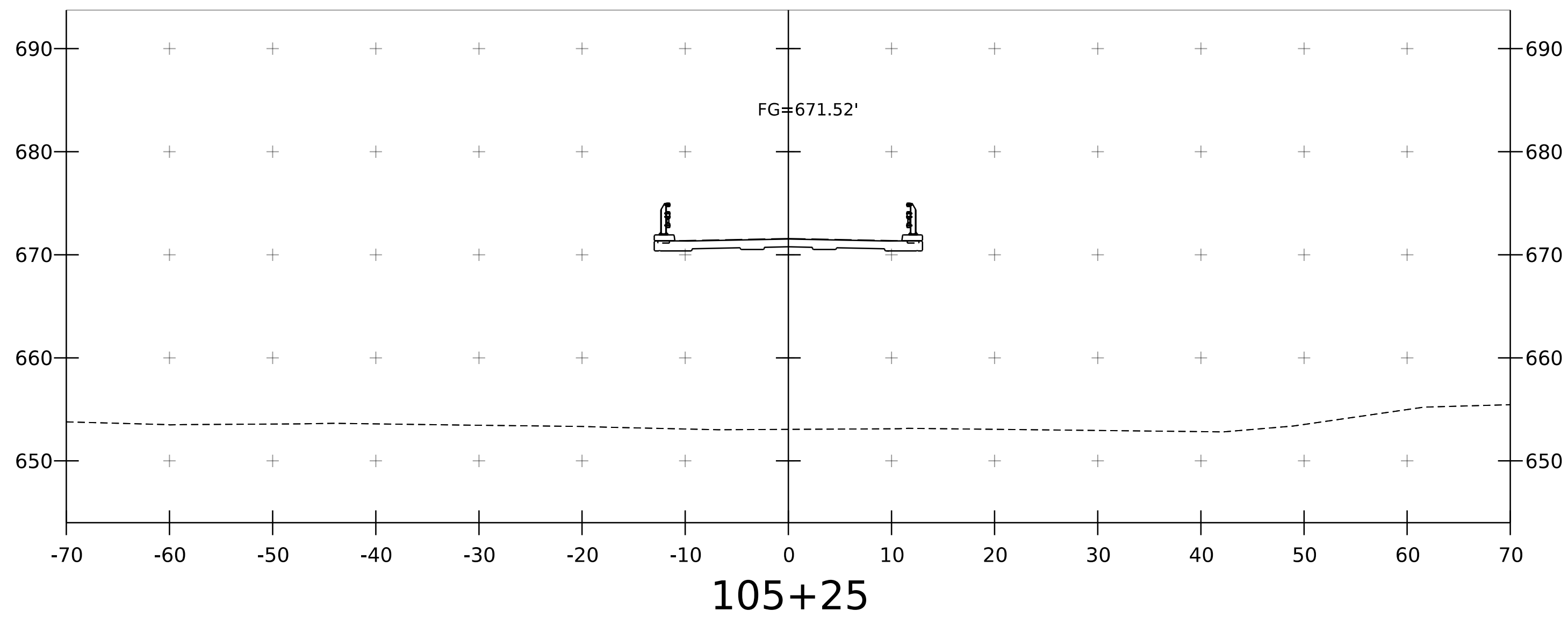
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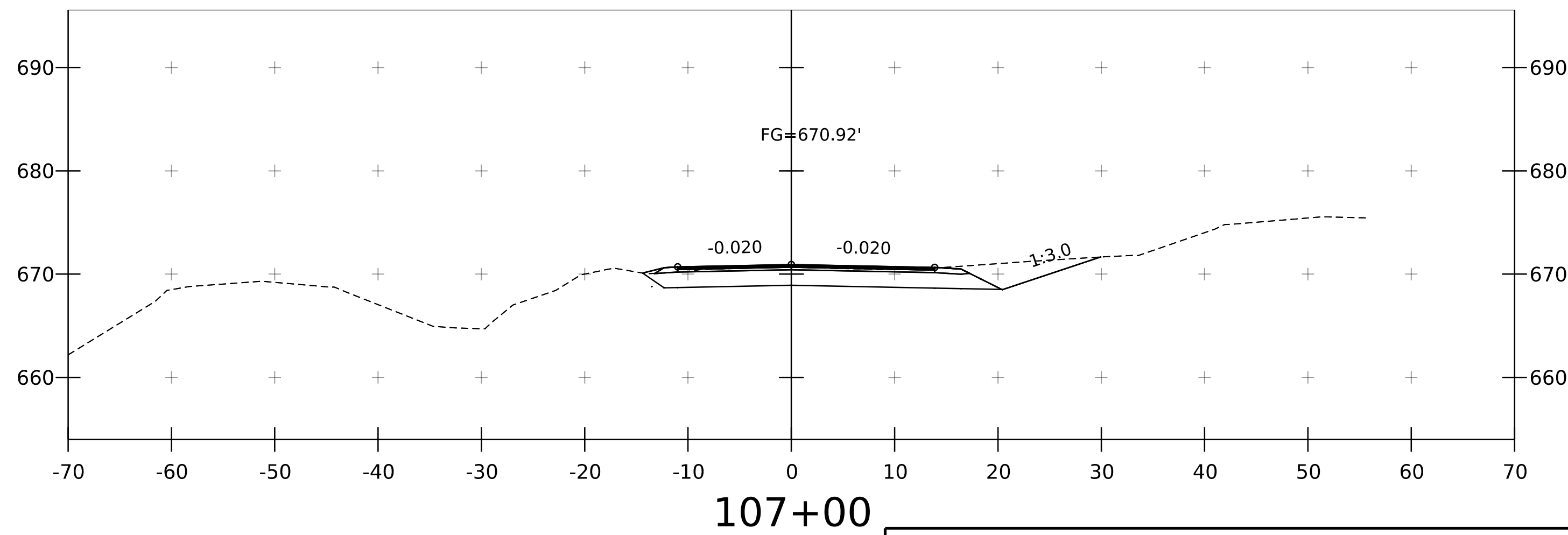
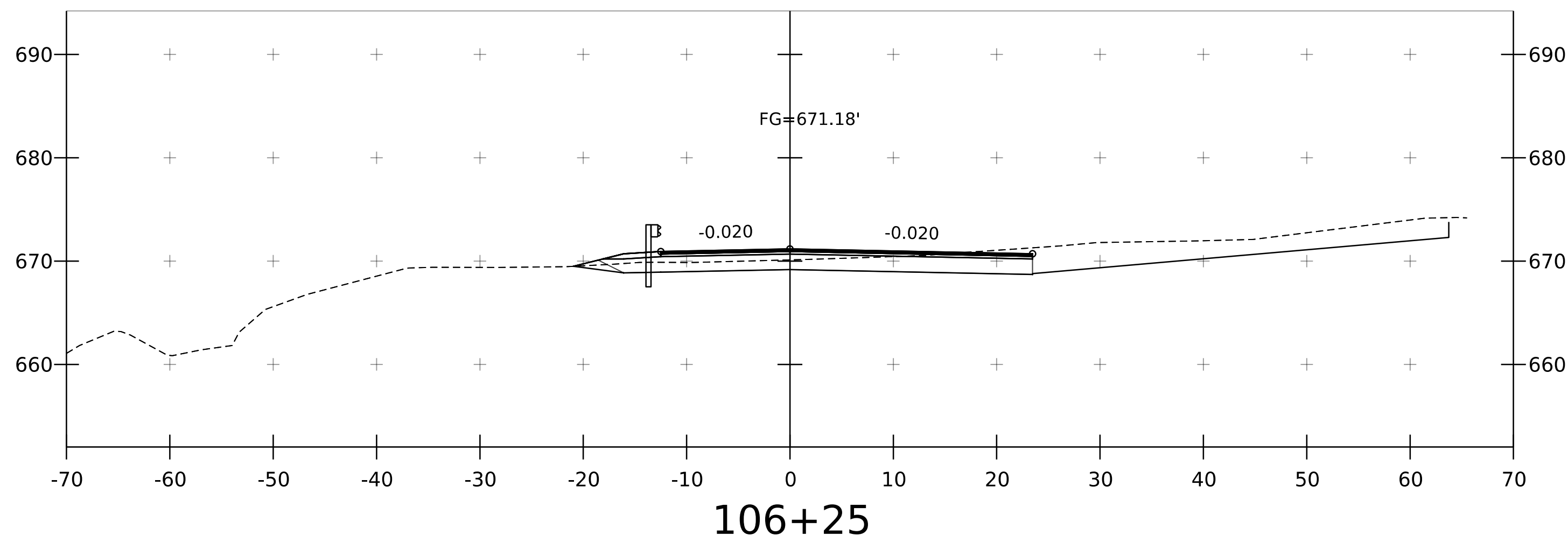
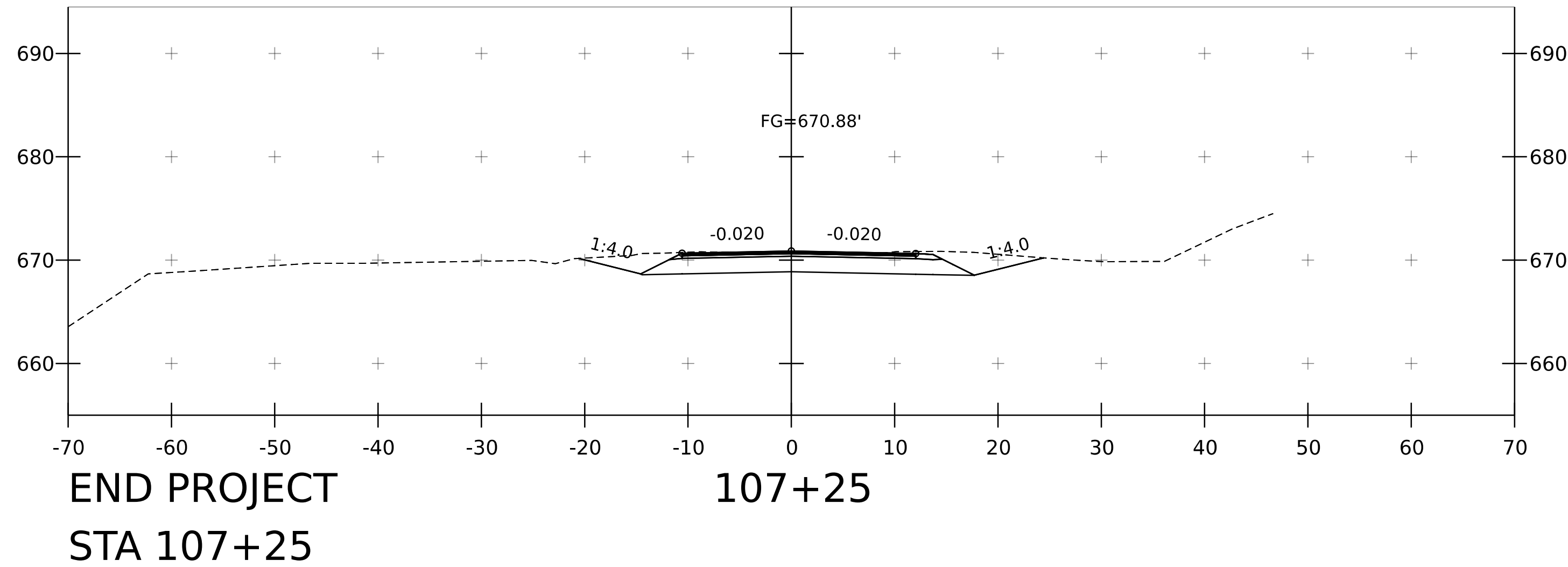
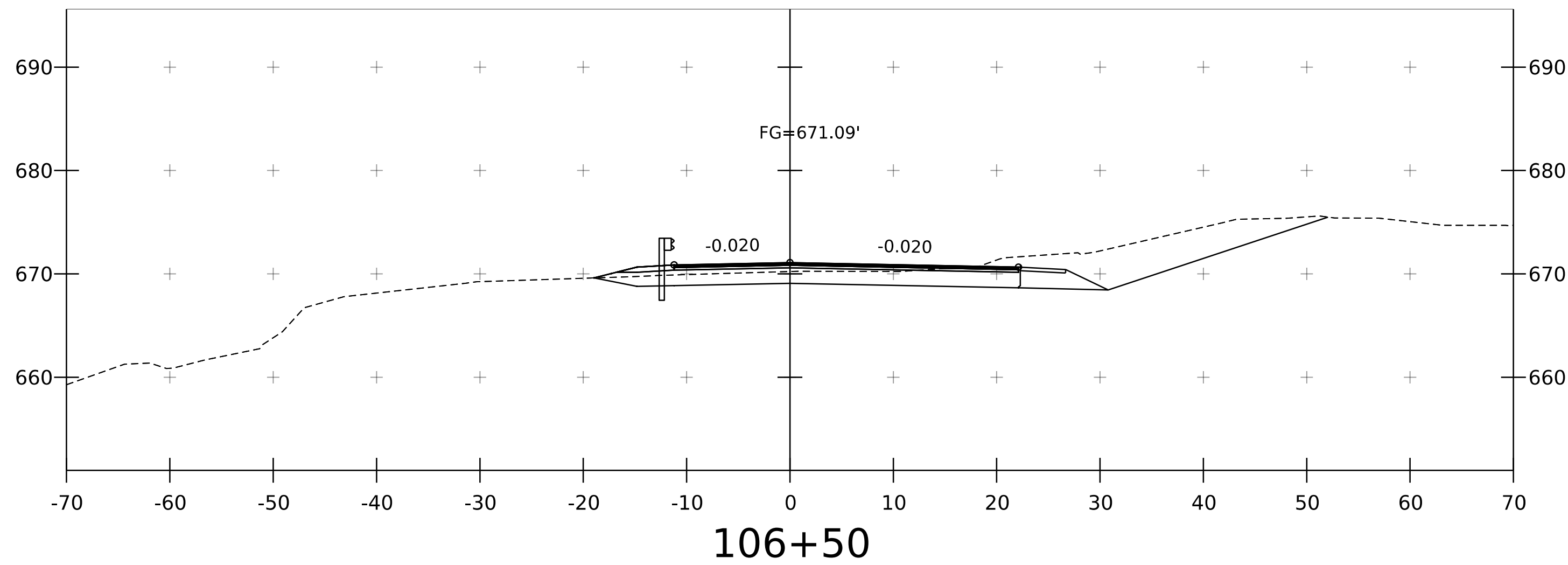
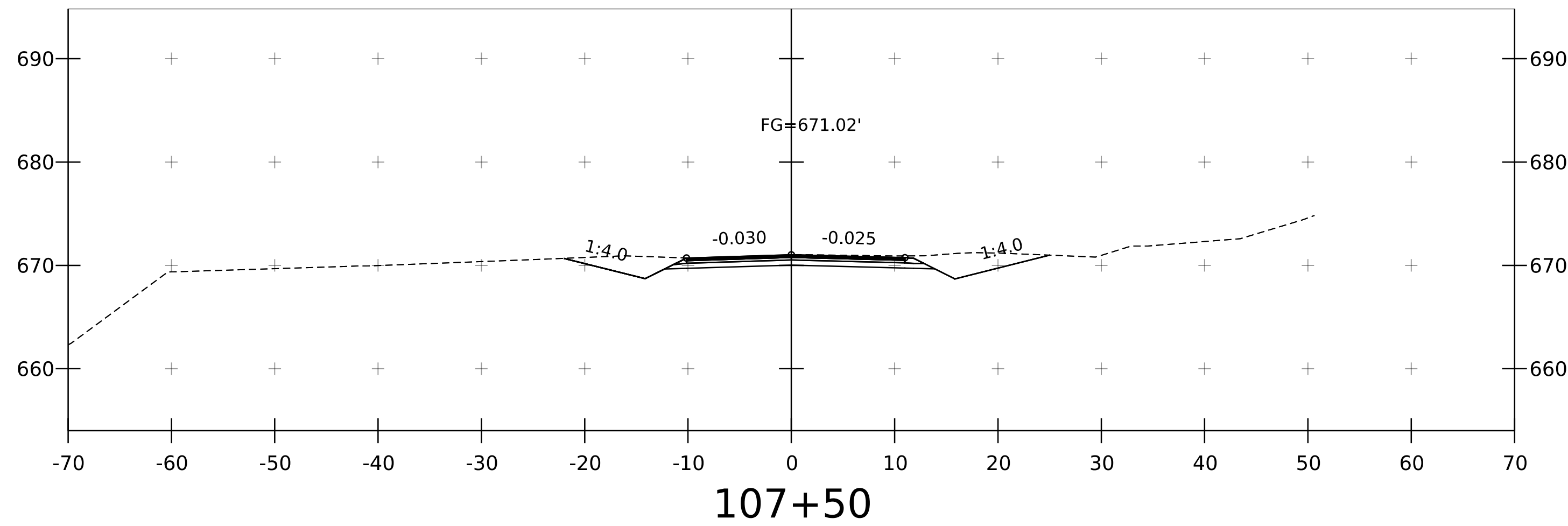
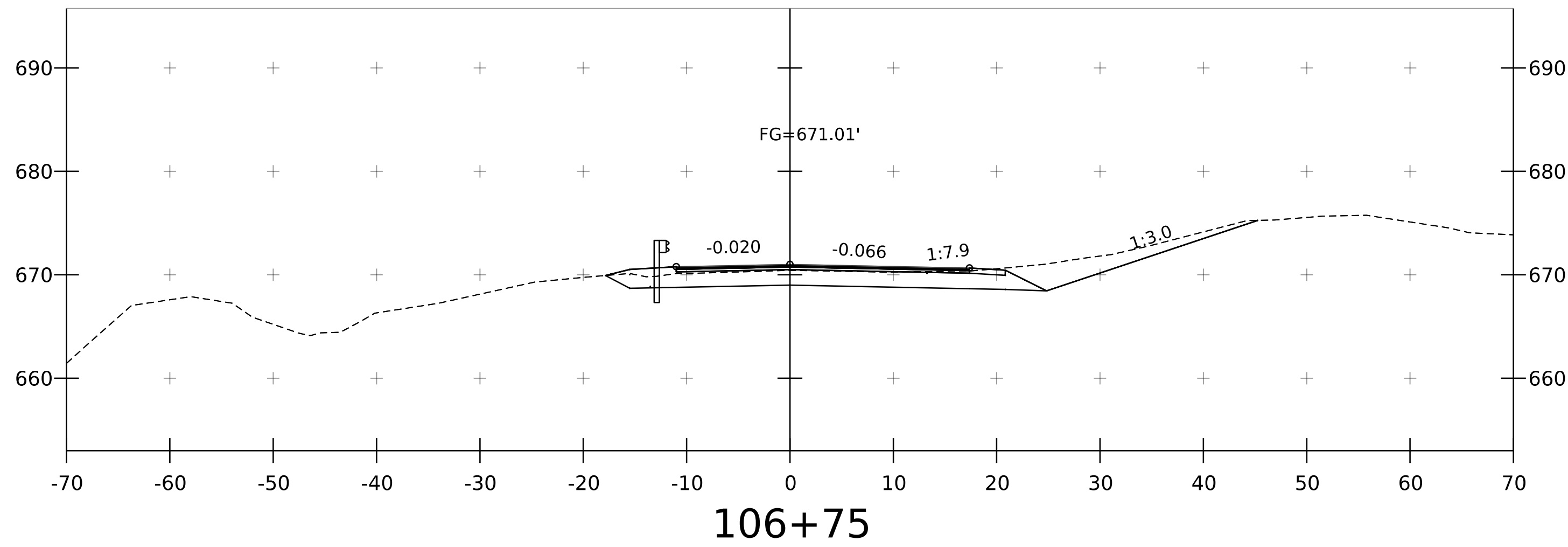
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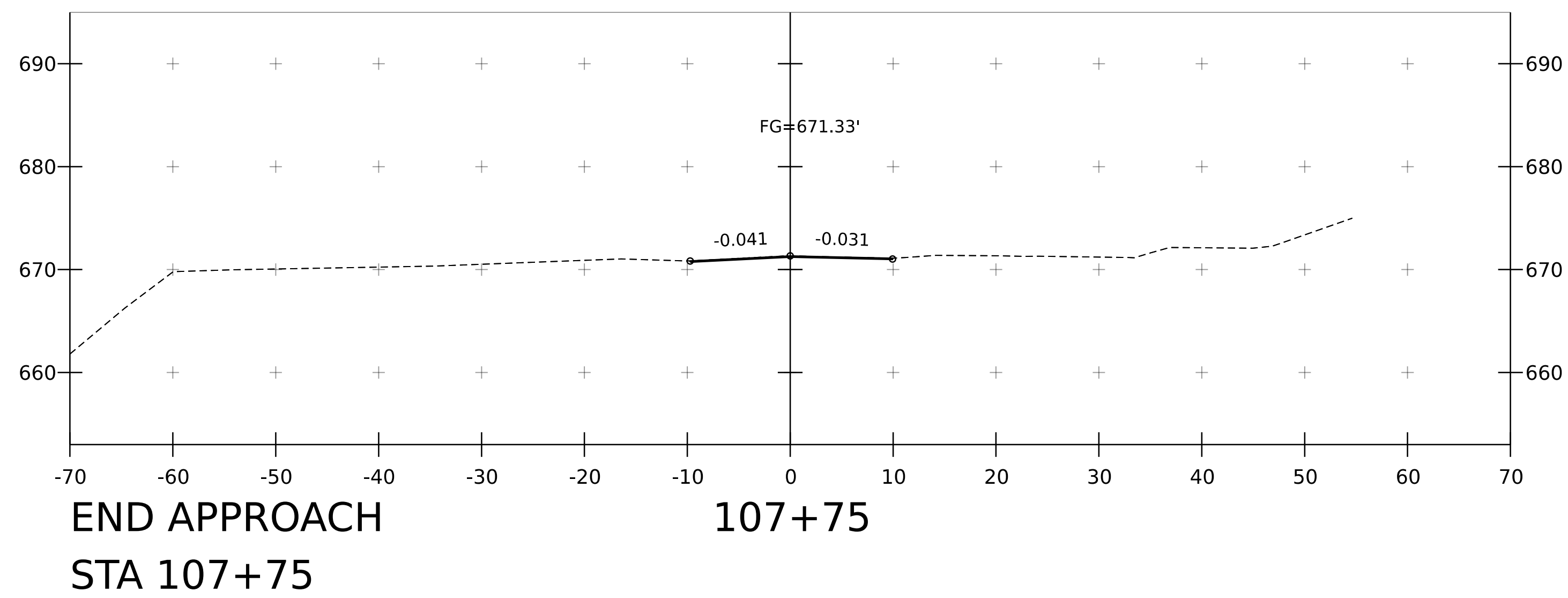
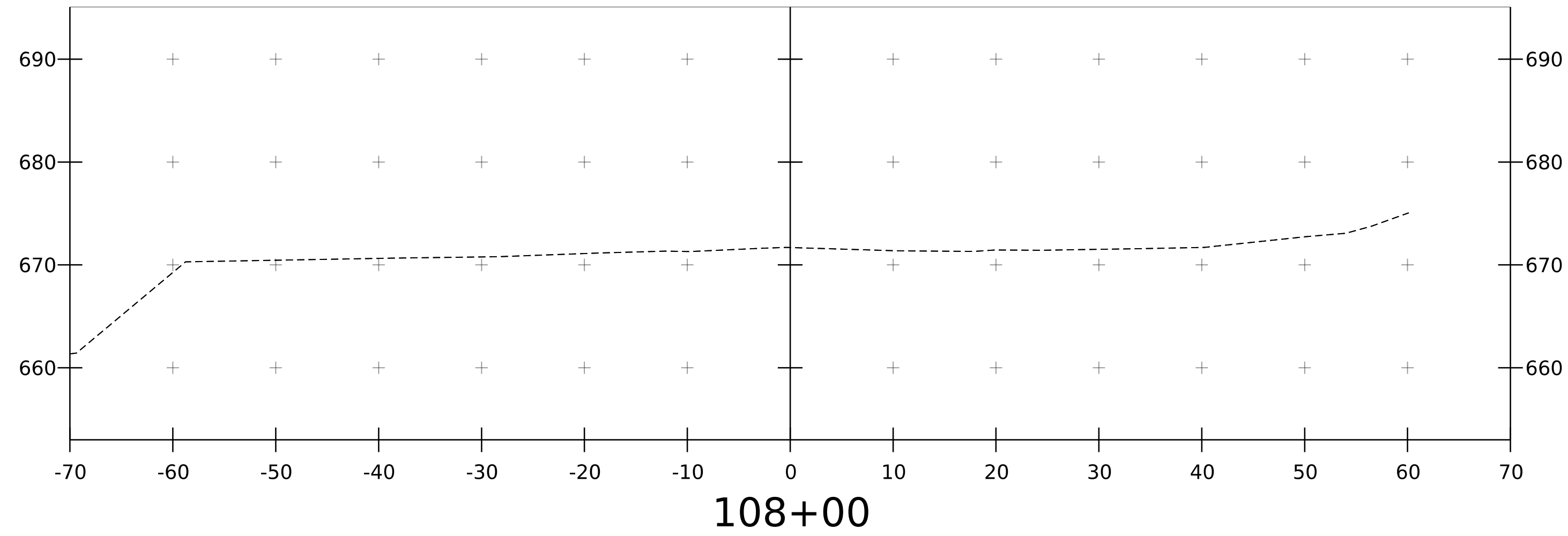
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PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	Z.ROUSSEL
FILE NAME:	z19j226xs1.dgn	CHECKED BY:	K.LAVIGNE
PROJECT LEADER:	S.JAMES	SHEET	21 OF 41
DESIGNED BY:	Z.ROUSSEL		
TH-19 CROSS SECTIONS 3			



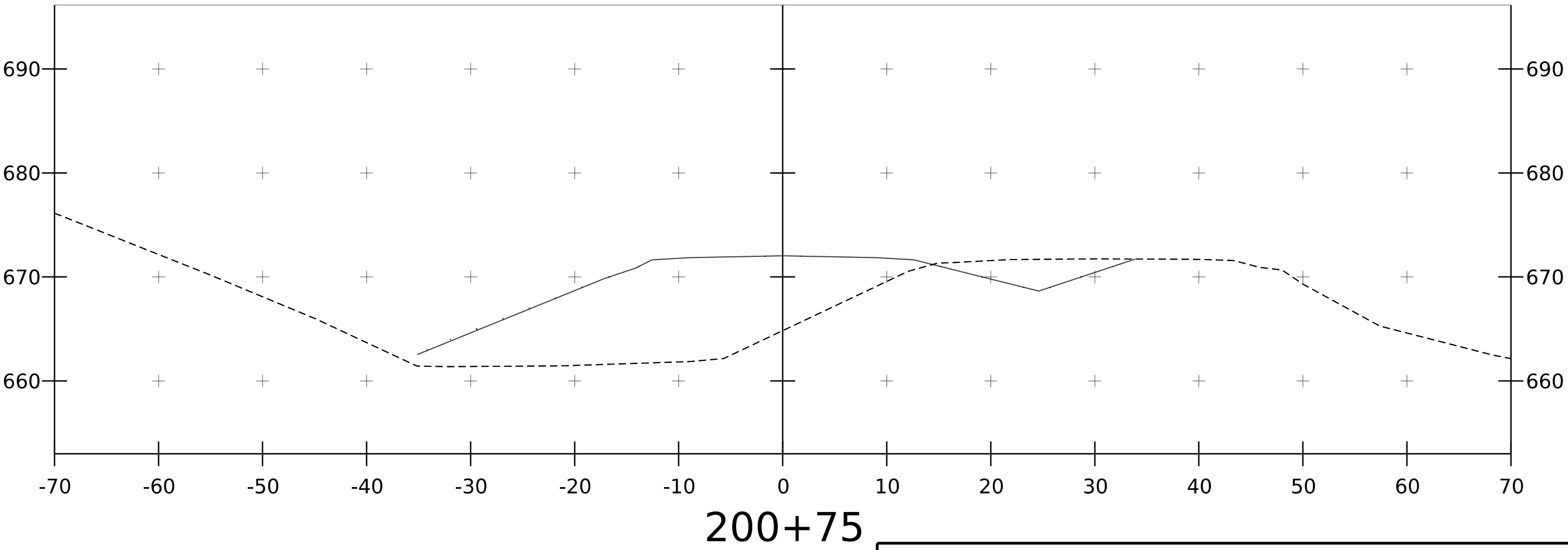
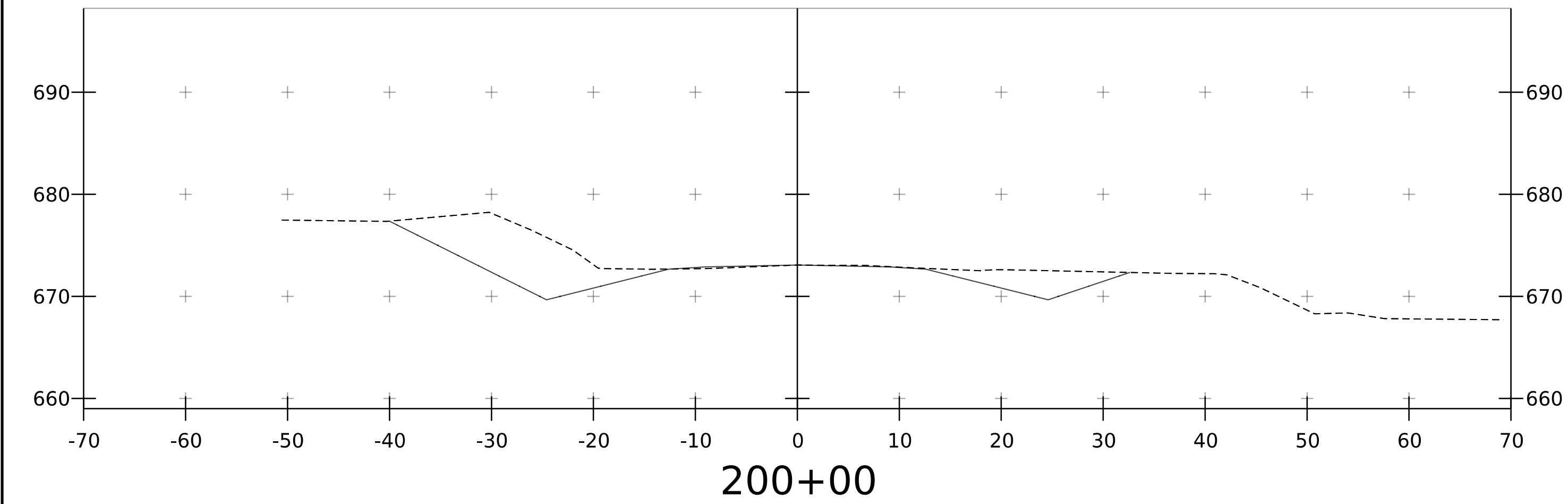
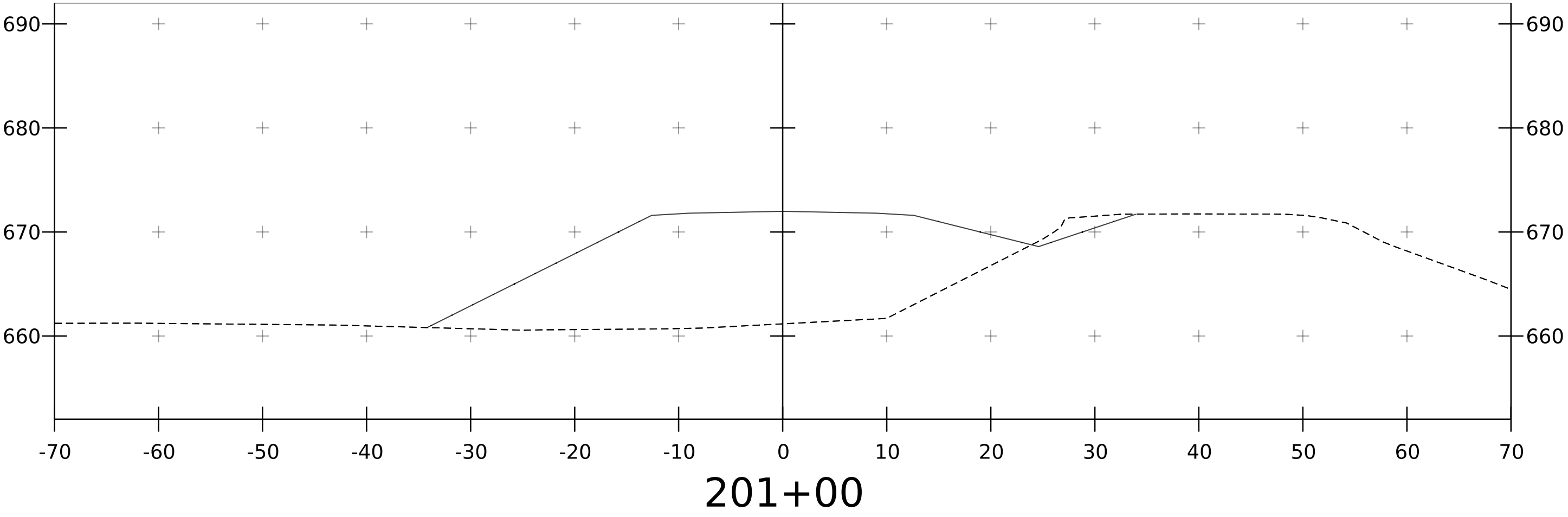
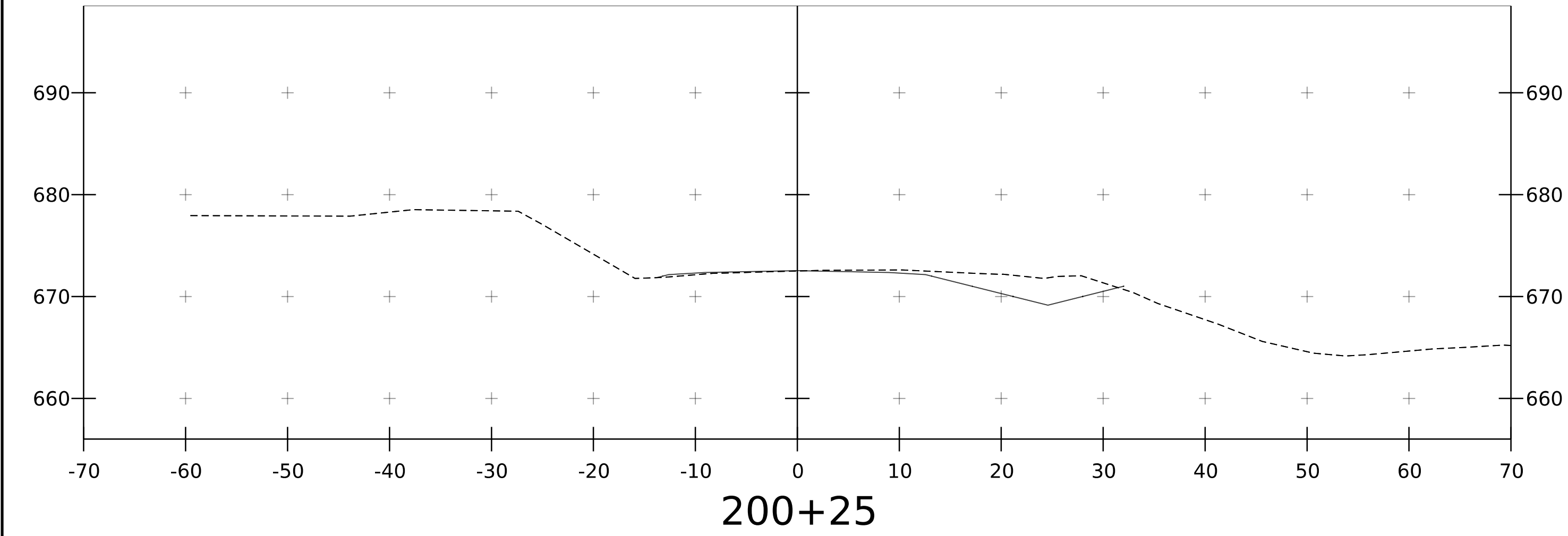
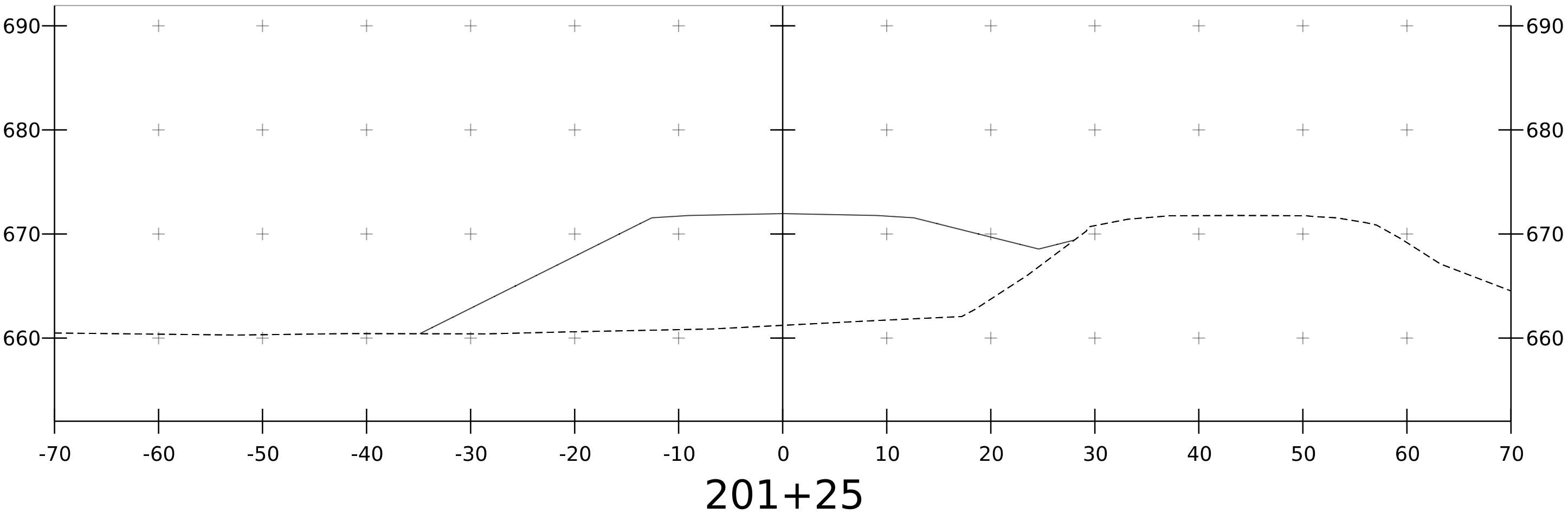
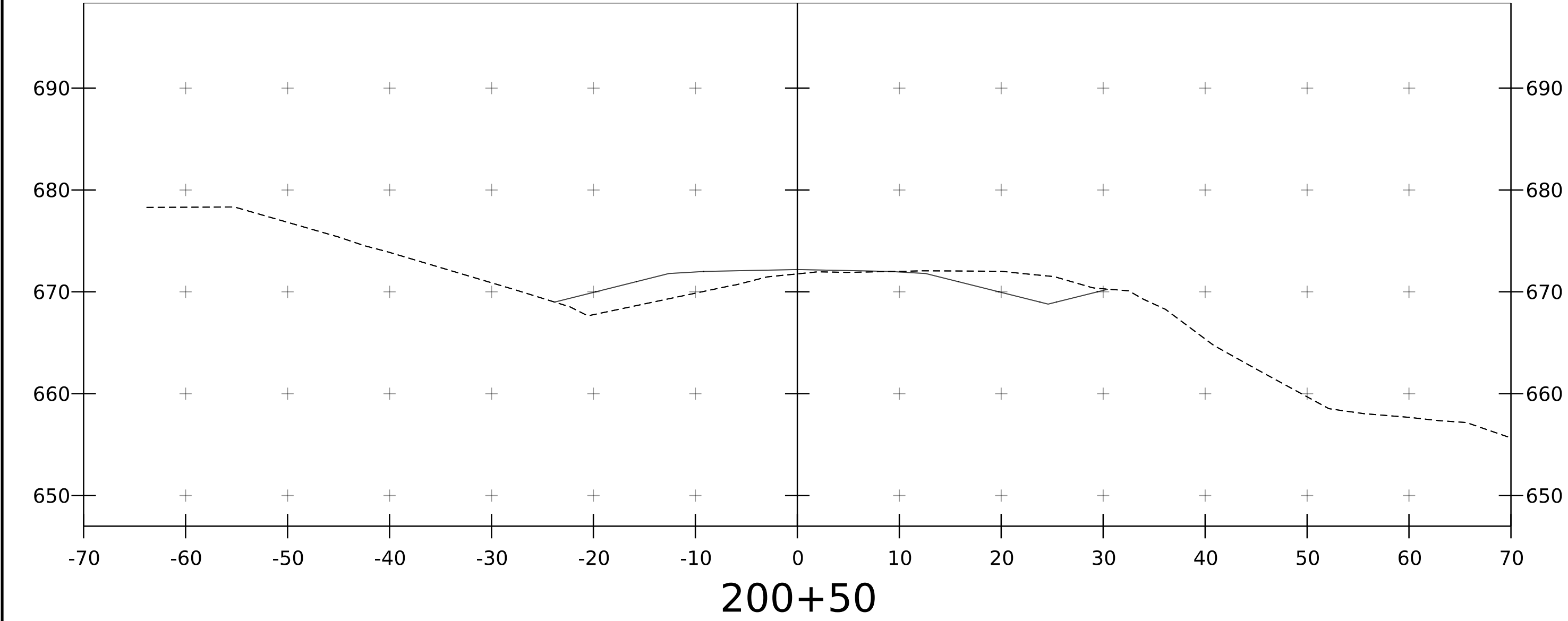
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PROJECT LEADER:	S.JAMES	SHEET	22 OF 41
DESIGNED BY:	Z.ROUSSEL		
TH-19 CROSS SECTIONS 4			



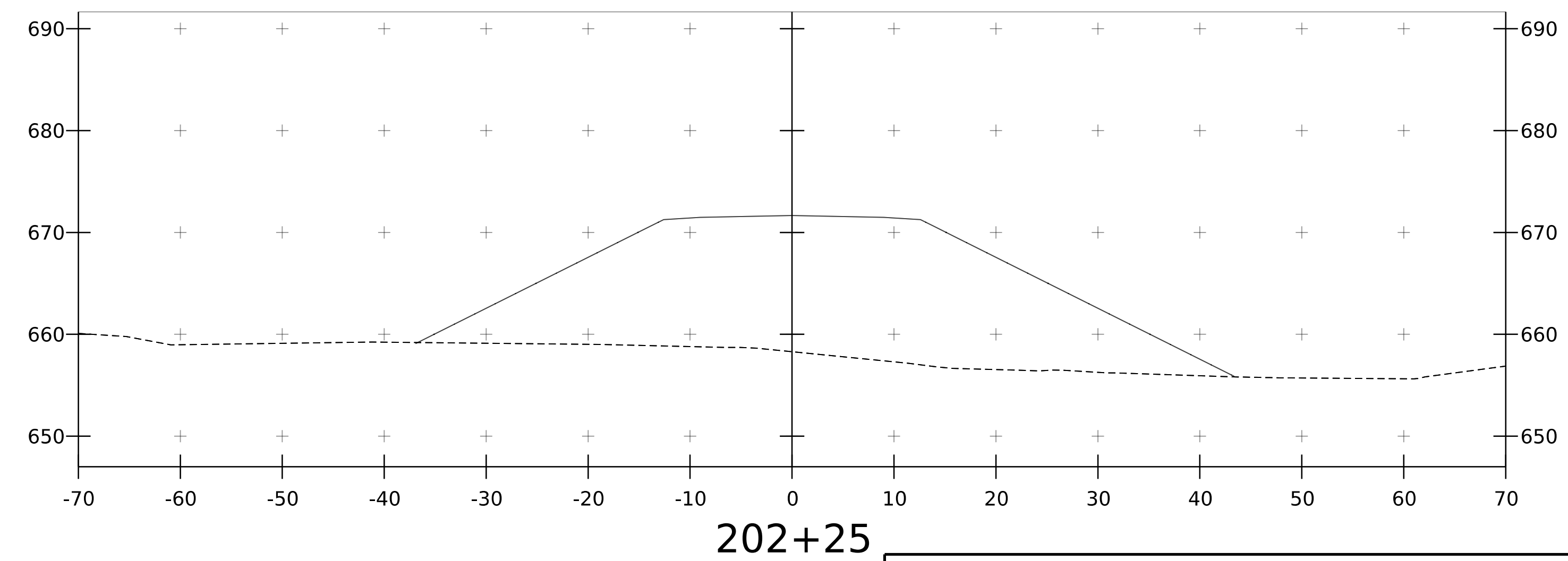
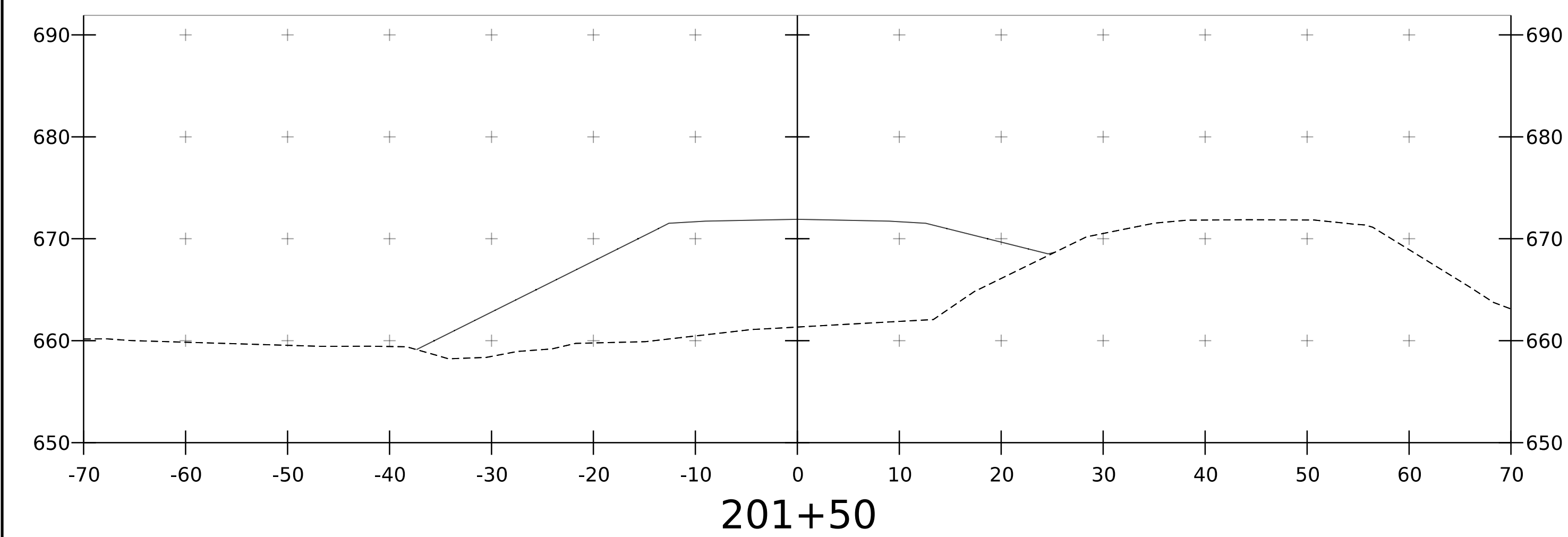
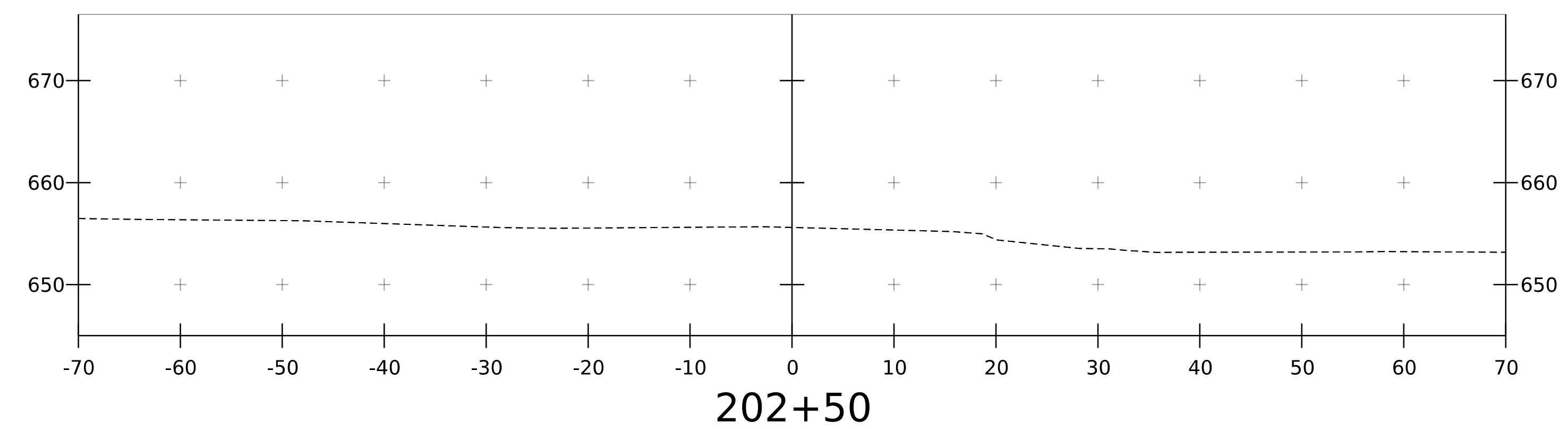
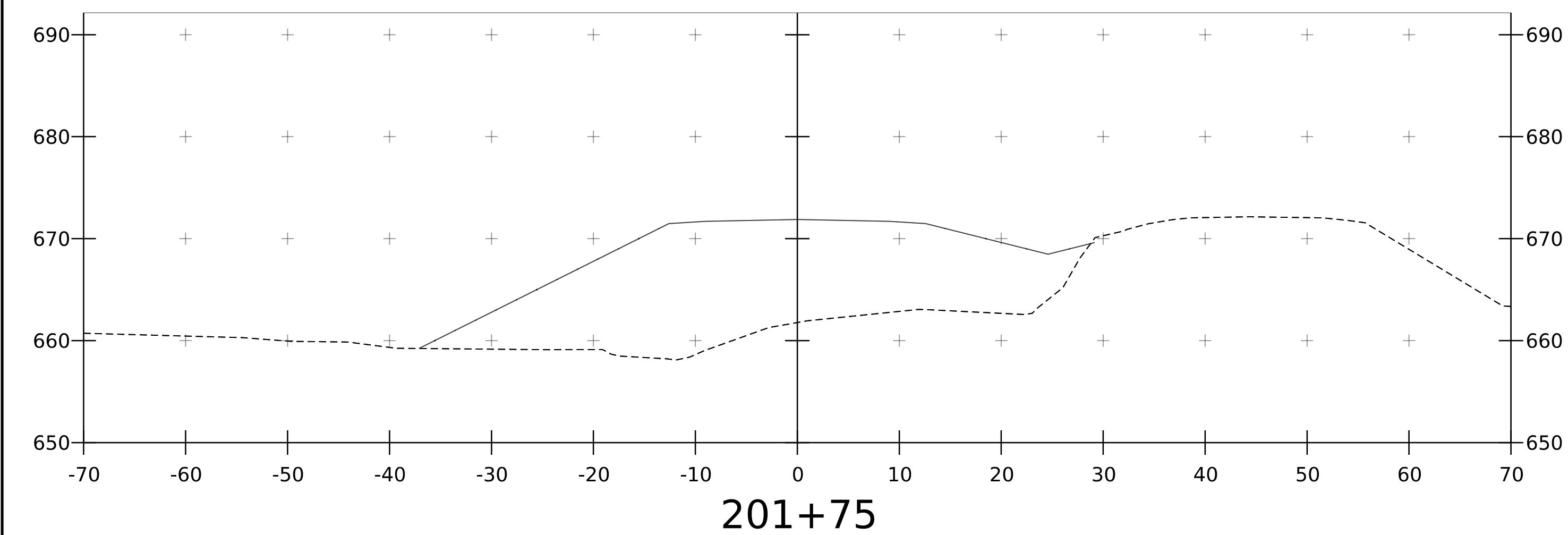
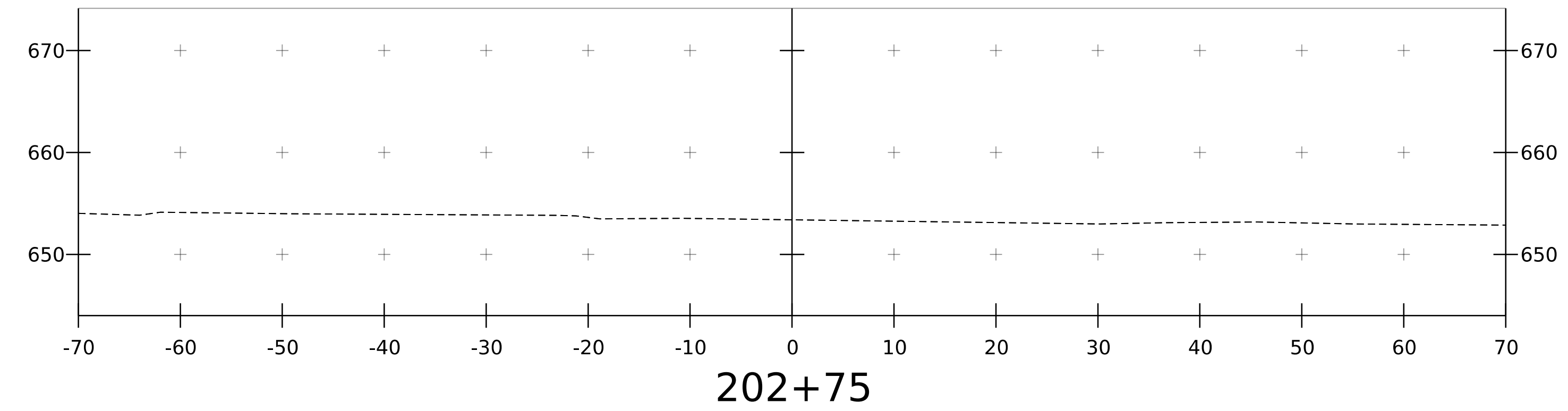
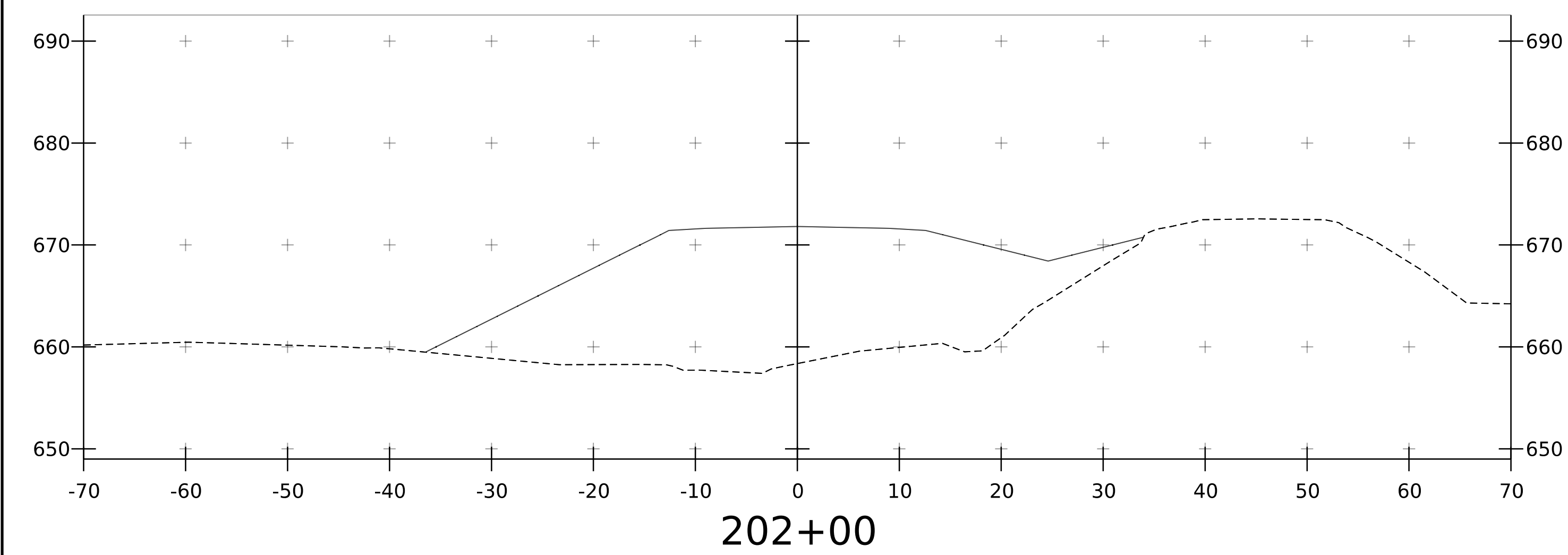
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PROJECT LEADER:	S.JAMES	SHEET	23 OF 41
DESIGNED BY:	Z.ROUSSEL		
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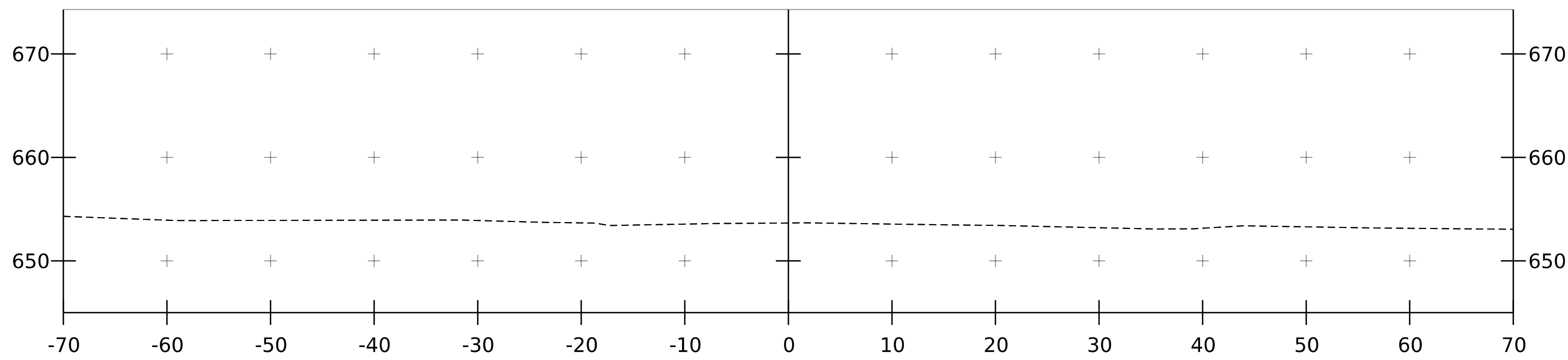
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PROJECT LEADER:	S.JAMES	SHEET	24 OF 41
DESIGNED BY:	Z.ROUSSEL		
TH-19 CROSS SECTIONS 6			



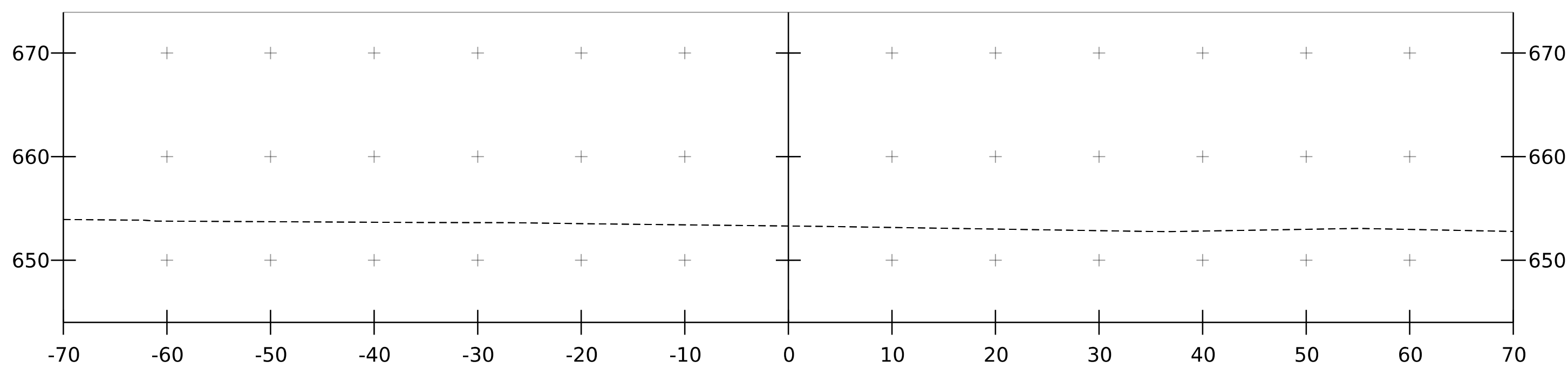
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FILE NAME:	z19j226xs2.dgn	CHECKED BY:	M.OOMS
PROJECT LEADER:	S.JAMES	SHEET	25 OF 41
DESIGNED BY:	Z.ROUSSEL		
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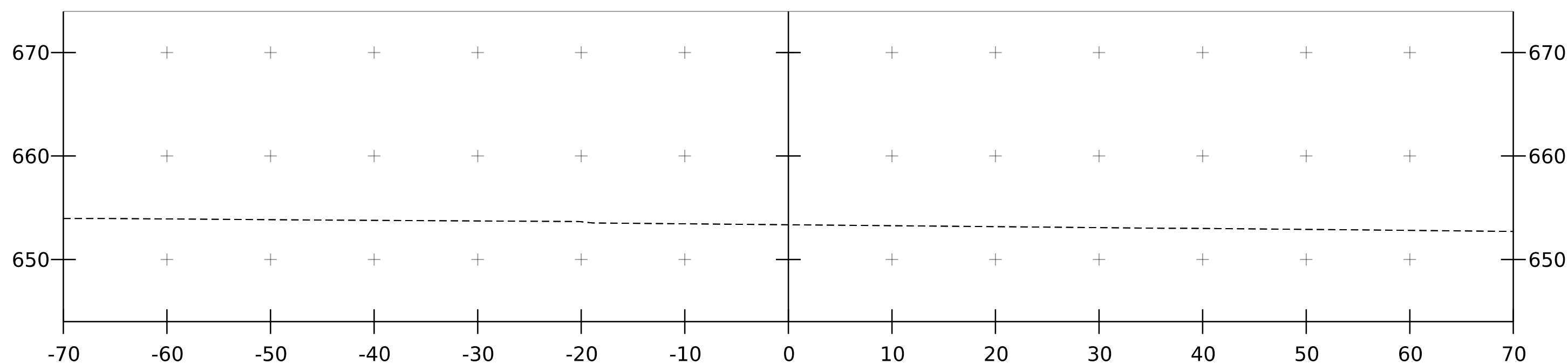
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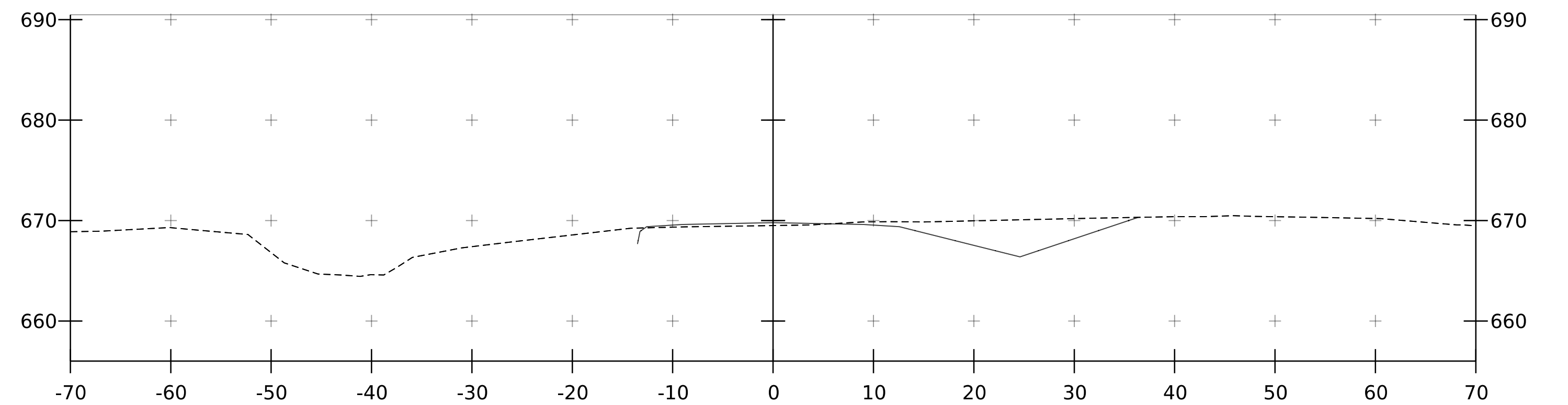
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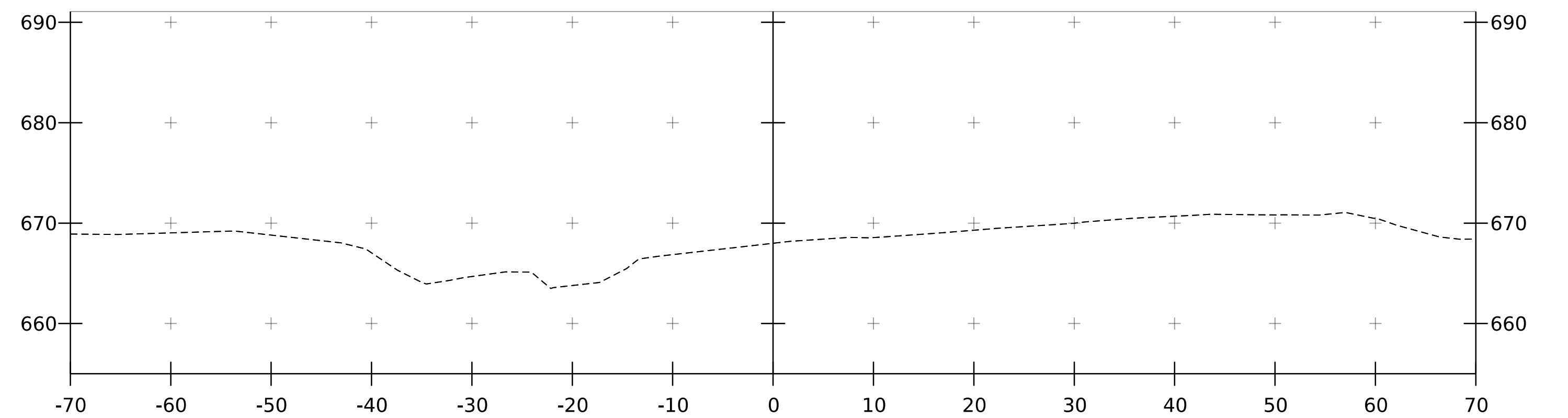
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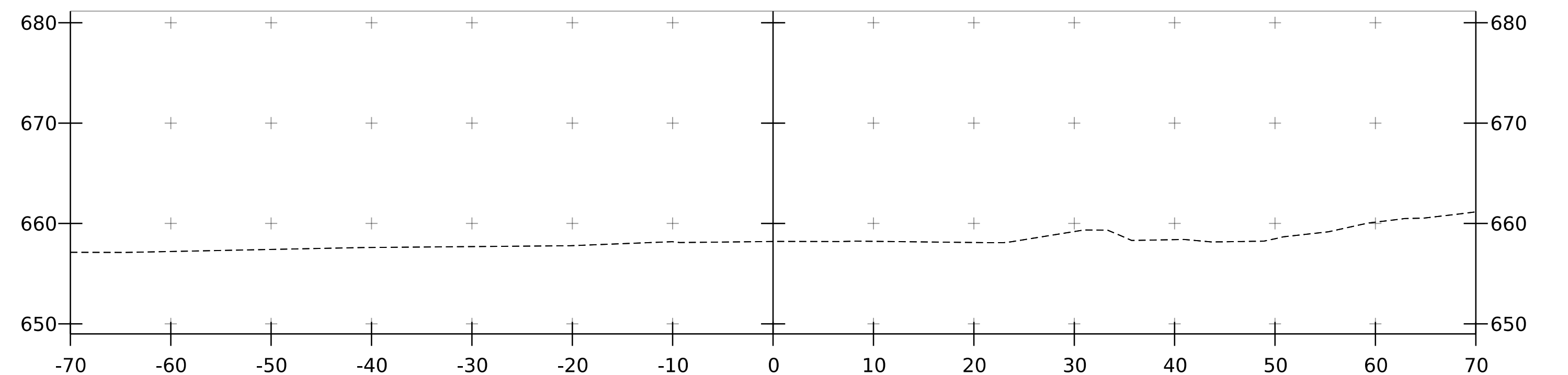
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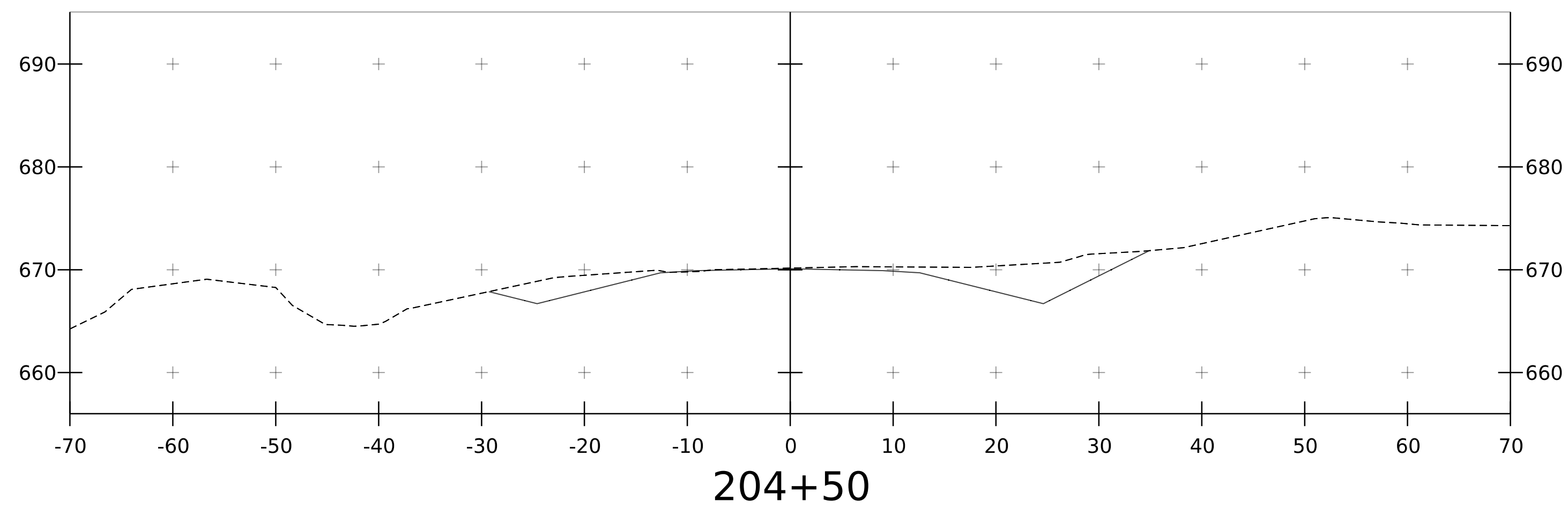
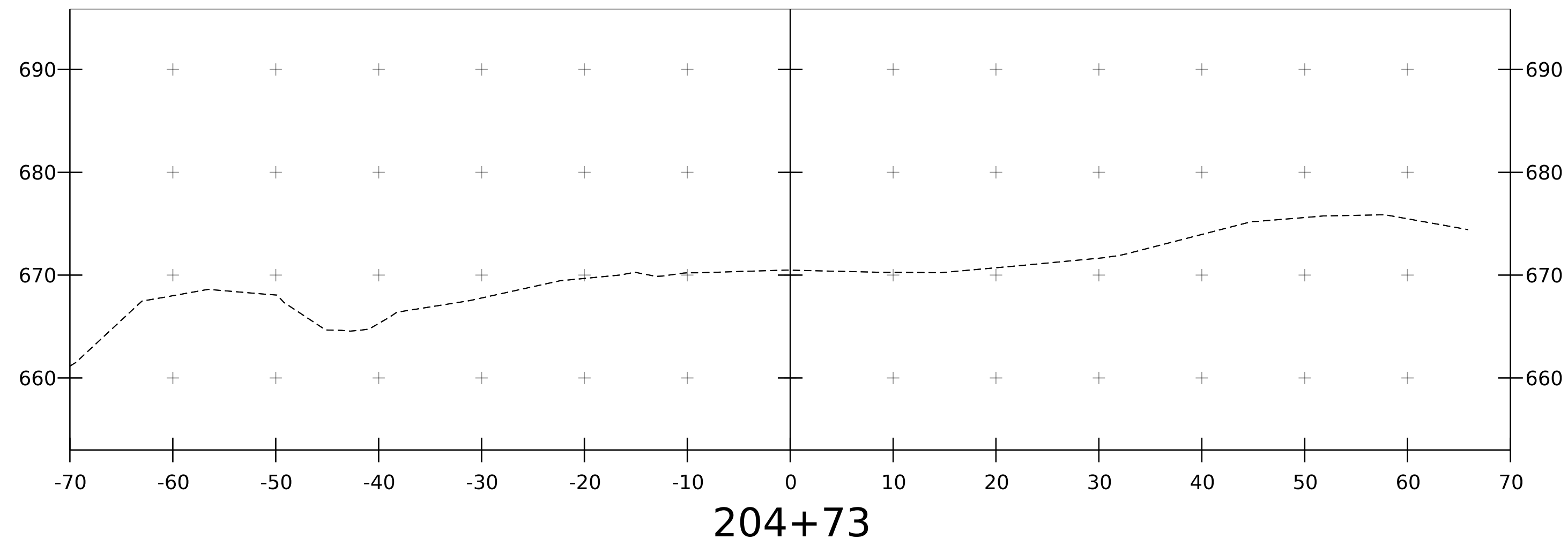
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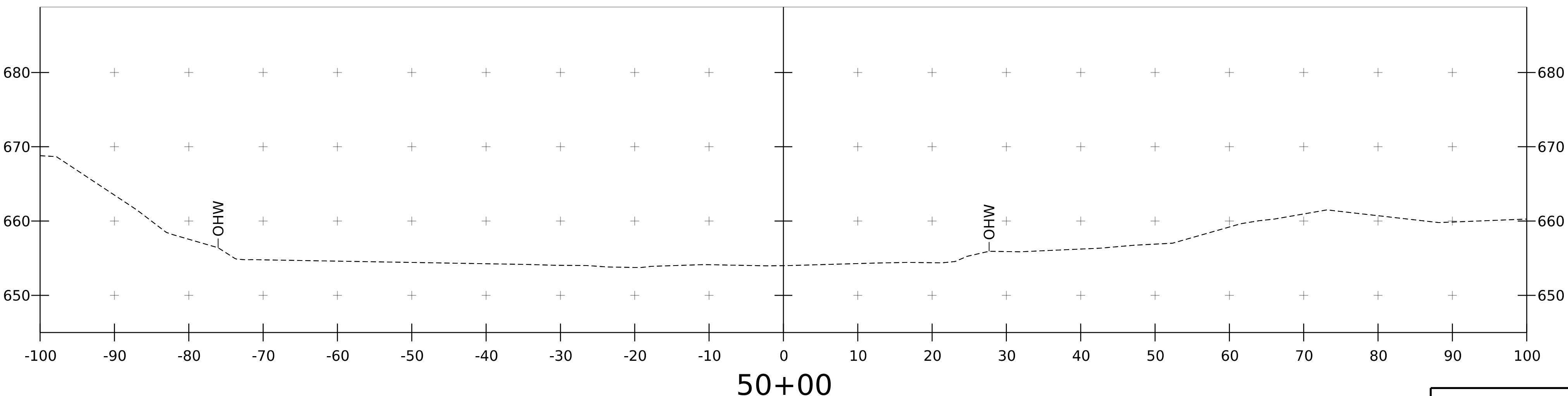
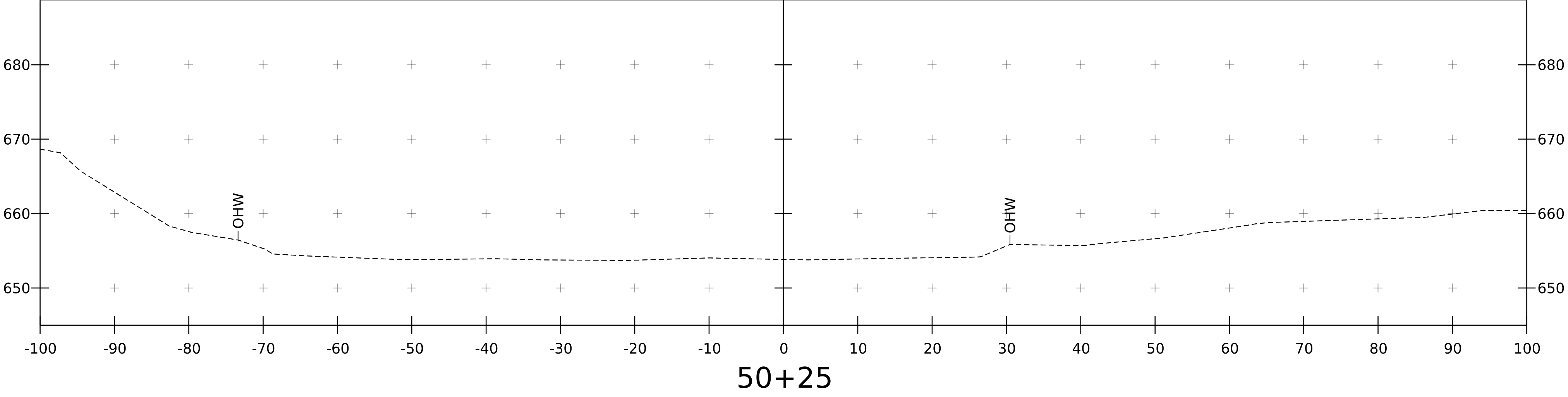
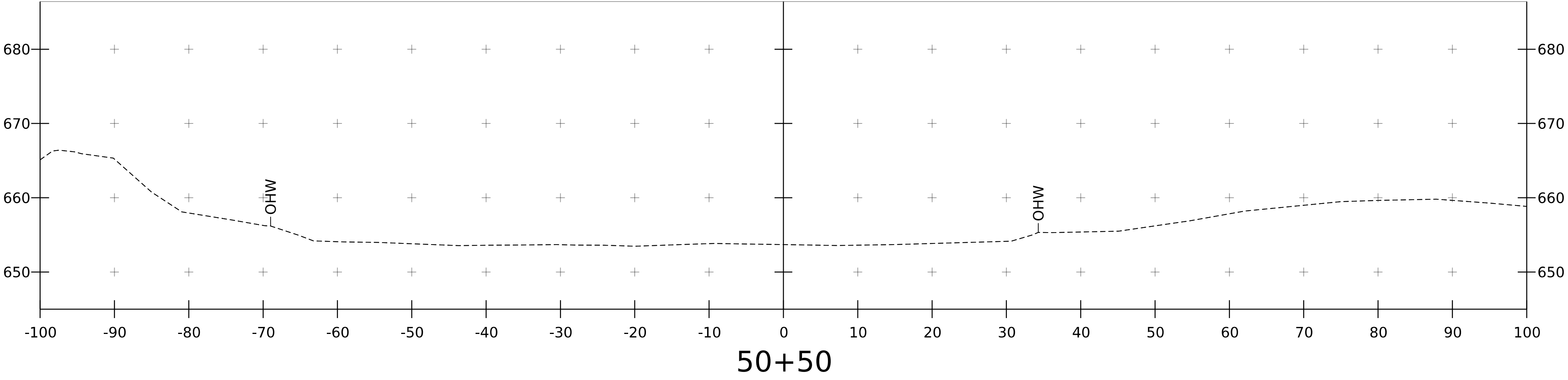
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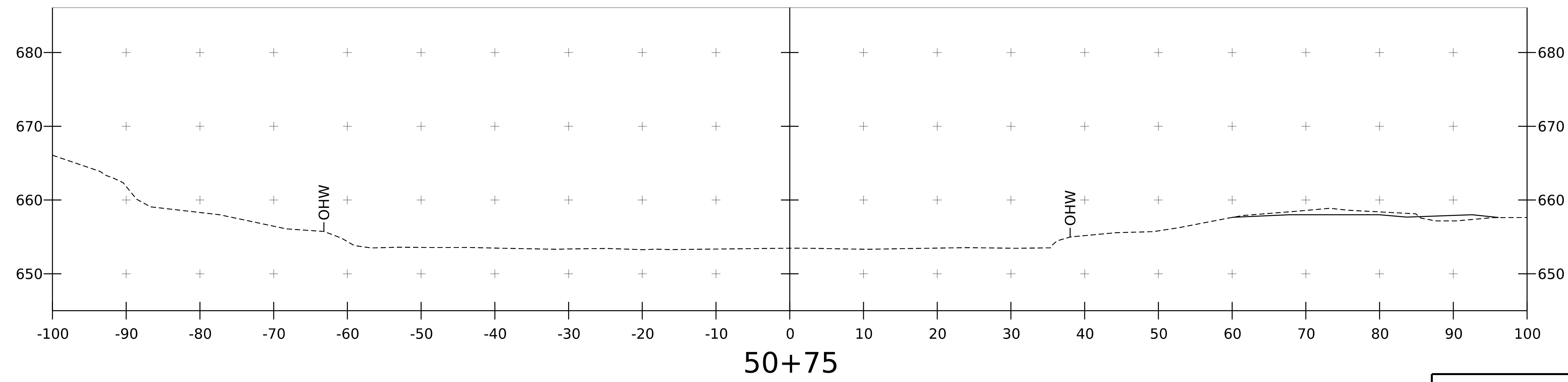
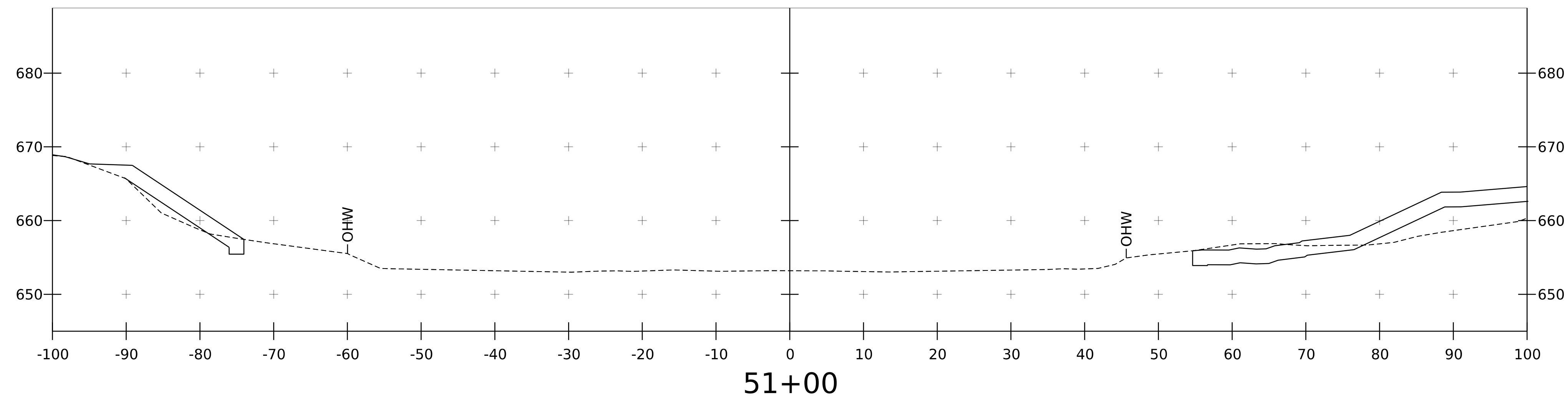
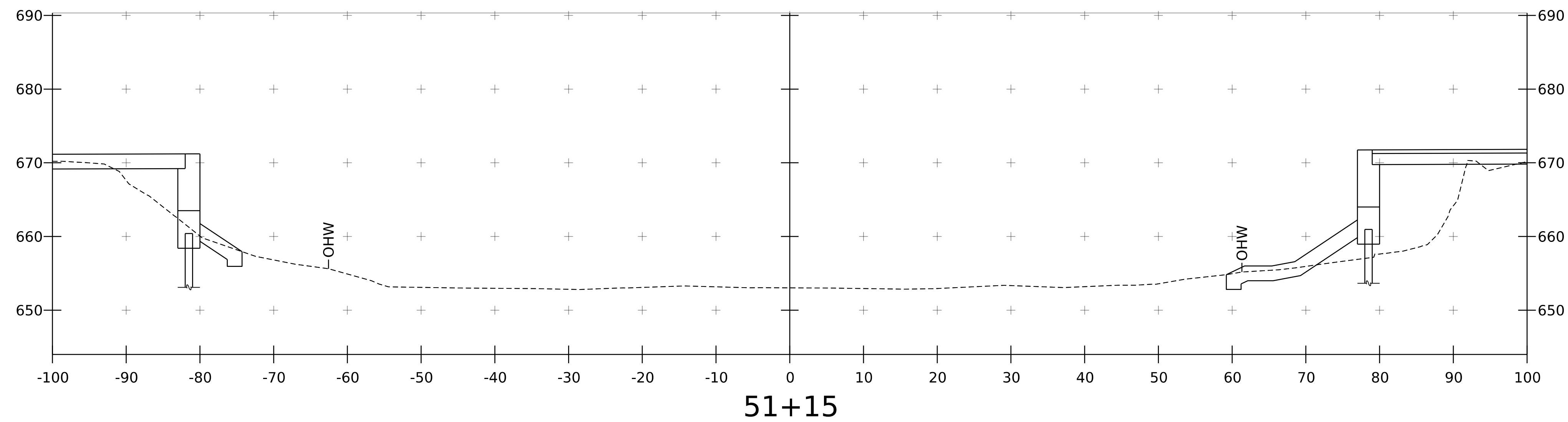
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FILE NAME:	z19j226xs2.dgn	CHECKED BY:	M.OOMS
PROJECT LEADER:	S.JAMES	SHEET	27 OF 41
DESIGNED BY:	Z.ROUSSEL		
DETOUR CROSS SECTIONS 3			



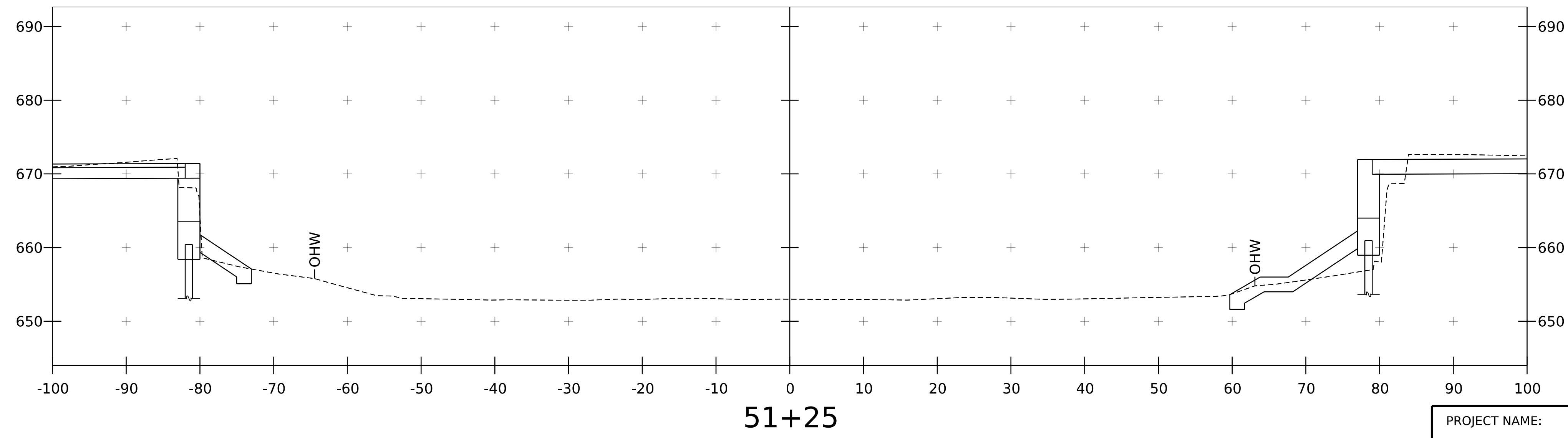
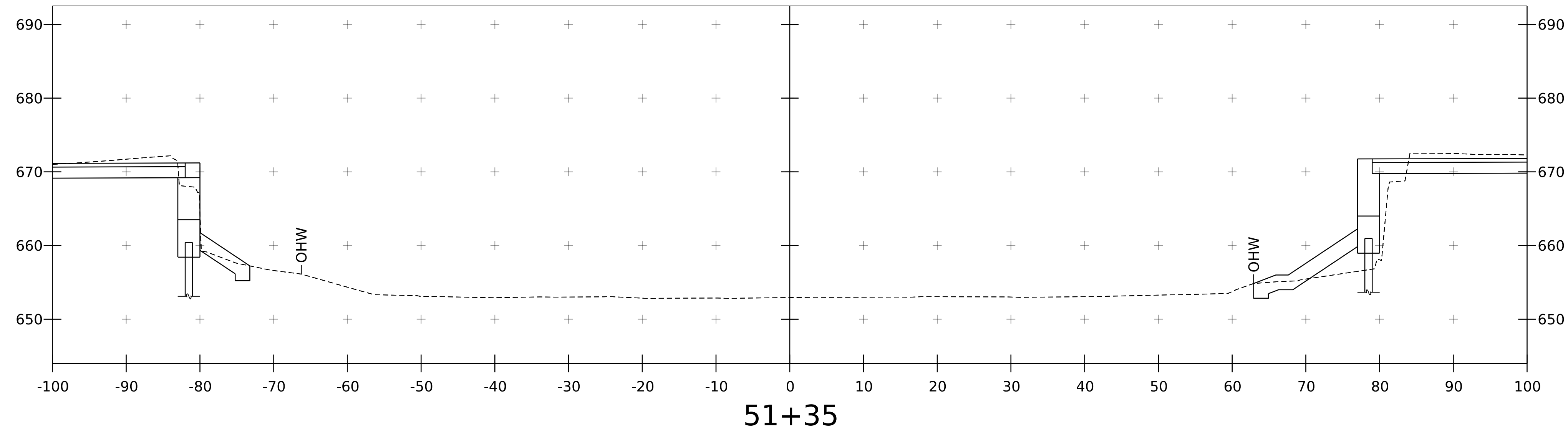
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PROJECT LEADER:	S.JAMES	SHEET	28 OF 41
DESIGNED BY:	Z.ROUSSEL		
DETOUR CROSS SECTIONS 4			



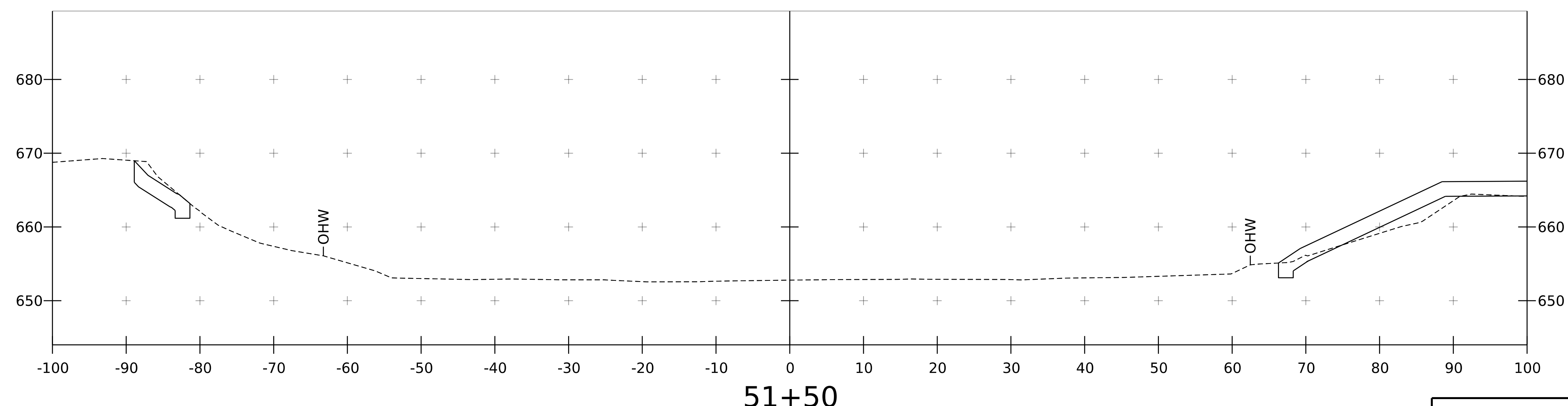
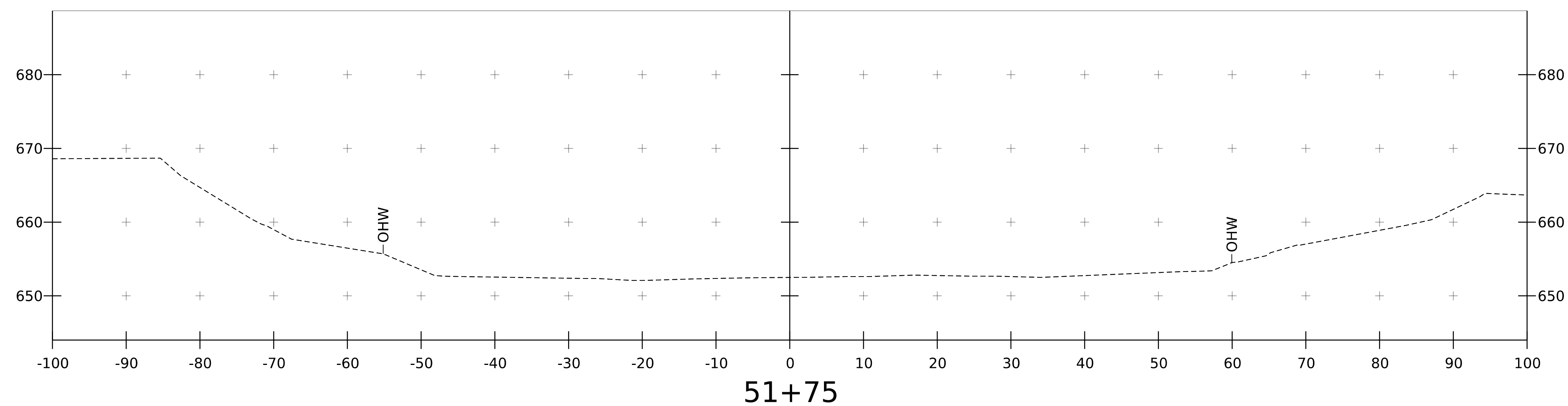
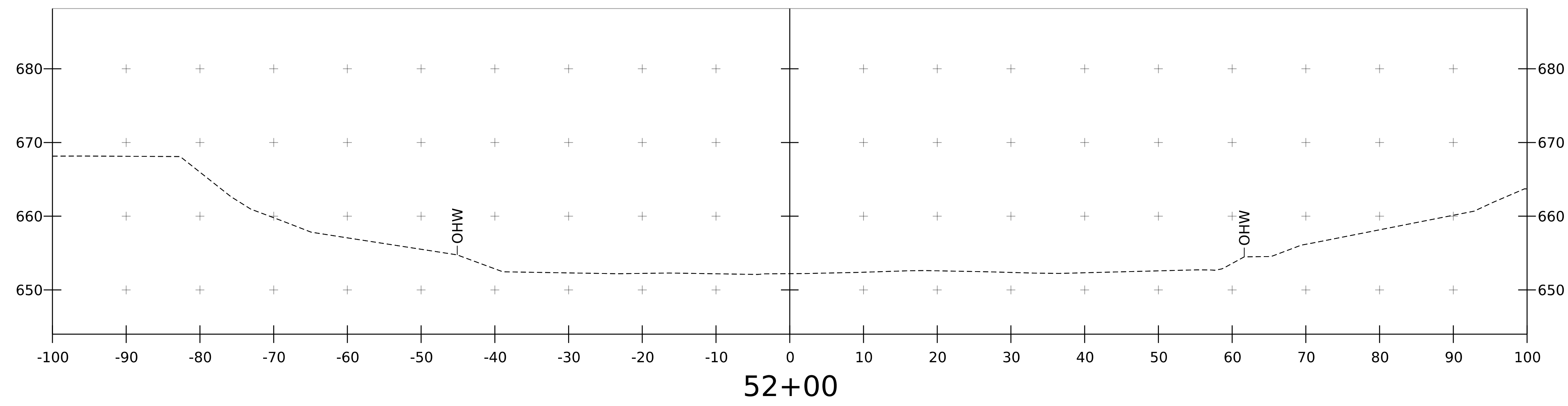
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DESIGNED BY:	Z.ROUSSEL	CHECKED BY:	M.OOMS
CHANNEL CROSS SECTIONS 1		SHEET	29 OF 41



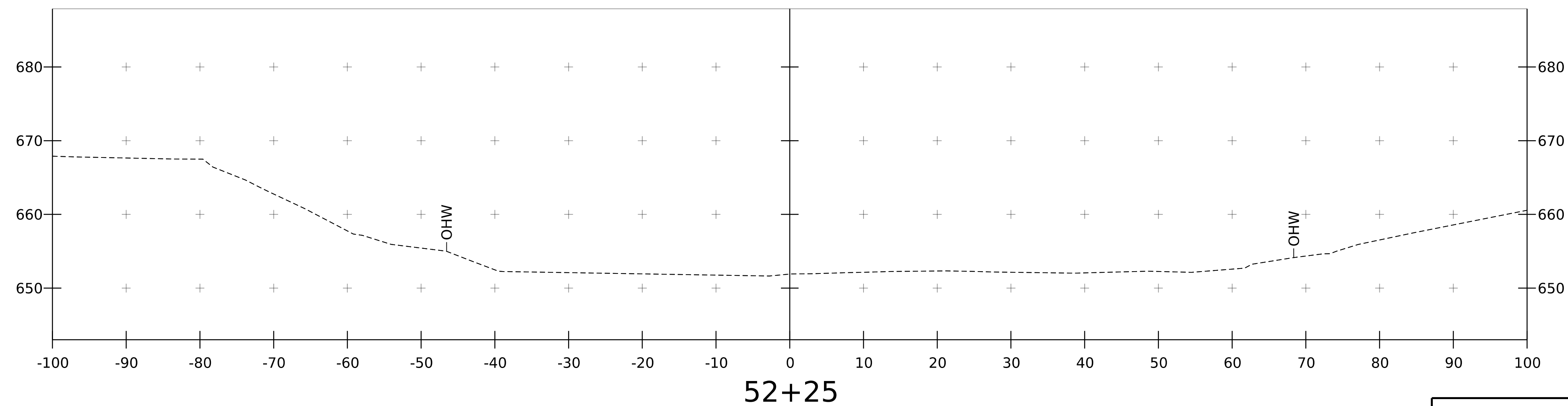
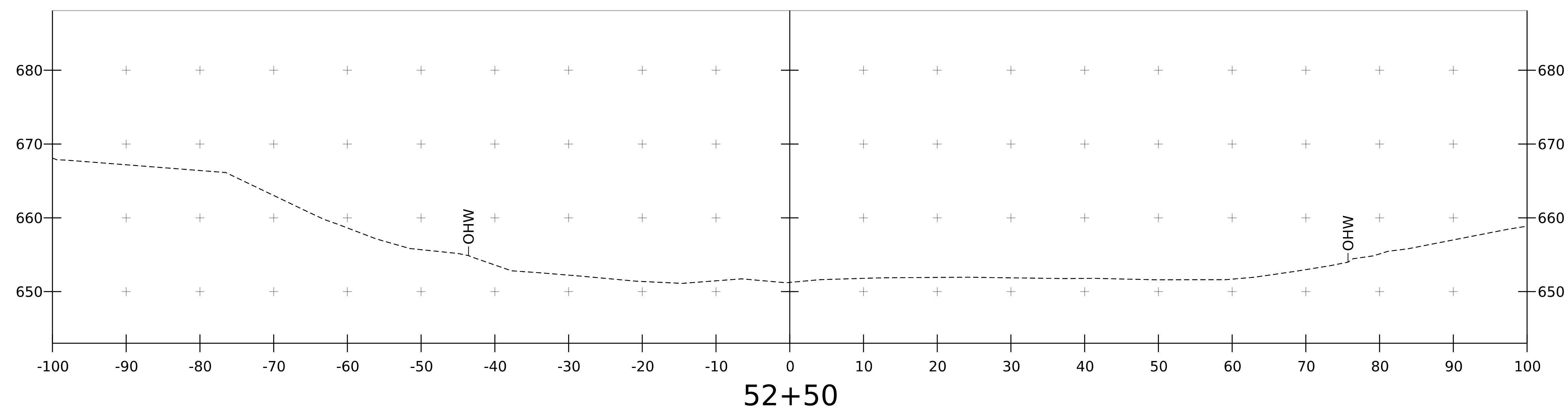
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DESIGNED BY: Z.ROUSSEL	CHECKED BY: M.OOMS
CHANNEL CROSS SECTIONS 2	SHEET 30 OF 41



PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xs3.dgn	PLOT DATE: 29-MAY-2026
PROJECT LEADER: S.JAMES	DRAWN BY: Z.ROUSSEL
DESIGNED BY: Z.ROUSSEL	CHECKED BY: M.OOMS
CHANNEL CROSS SECTIONS 3	SHEET 31 OF 41



PROJECT NAME:	JAMAICA	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	Z.ROUSSEL
FILE NAME:	z19j226xs3.dgn	CHECKED BY:	M.OOMS
PROJECT LEADER:	S.JAMES	SHEET	32 OF 41
DESIGNED BY:	Z.ROUSSEL		
CHANNEL CROSS SECTIONS 4			



PROJECT NAME:	JAMAICA	
PROJECT NUMBER:	BO 1442(42)	
FILE NAME:	z19j226xs3.dgn	PLOT DATE: 29-MAY-2026
PROJECT LEADER:	S.JAMES	DRAWN BY: Z.ROUSSEL
DESIGNED BY:	Z.ROUSSEL	CHECKED BY: M.OOMS
CHANNEL CROSS SECTIONS 5		SHEET 33 OF 41

EPSC PLAN NARRATIVE

1. PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF BRIDGE NO. 32 CONVEYING TH-19 (DEPOT STREET) OVER THE WEST RIVER IN JAMAICA, VT. BRIDGE NO. 32 IS LOCATED APPROXIMATELY 0.4 MILES NORTHEAST OF THE INTERSECTION WITH VT ROUTE 100. THE EXISTING STRUCTURE IS A SINGLE SPAN STEEL PRATT THROUGH TRUSS WITH TIMBER DECK AND WEARING SURFACE, ON STONE ABUTMENTS. THE REPLACEMENT ACTIVITIES WILL INCLUDE ERECTING A NEW STEEL GIRDER BRIDGE ON PILE SUPPORTED ABUTMENTS. TRAFFIC CONTROL DURING CONSTRUCTION WILL CONSIST OF A TEMPORARY BRIDGE INCLUDING TEMPORARY PAVED ROADWAY APPROACHES WITH EMBANKMENTS AND SIDE SLOPES UPSTREAM OF BRIDGE NO. 32.

IT IS ANTICIPATED THAT CONSTRUCTION WILL LAST THREE CONSTRUCTION SEASONS.

2. AMOUNT OF DISTURBANCE AND RISK EVALUATION

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.2 ACRES. THE MAXIMUM CONCURRENT EARTH DISTURBANCE USED TO SCORE THIS PROJECT IN THE APPENDIX A RISK ASSESSMENT IS 1.2 ACRES.

THIS PROJECT REQUIRES COVERAGE UNDER GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. THE CONTRACTOR SHALL USE THE LOW RISK HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR GUIDANCE.

ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

3. MAJOR COMPONENTS AND SEQUENCING

THE CONTRACTOR SHALL SEQUENCE CONSTRUCTION ACTIVITIES TO MINIMIZE THE EXTENT OF DISTURBED SOILS LEFT OPEN TO EROSION AT ANY GIVEN TIME.

CONSTRUCTION OF THE PROJECT WILL BE BROKEN INTO FOUR MAIN PHASES THAT CONSIST OF RELOCATING EXISTING UTILITIES, INSTALLING THE TEMPORARY BRIDGE AND APPROACHES, REMOVING AND REPLACING EXISTING BRIDGE 32, RECONSTRUCTING THE NEW ROADWAY APPROACHES, TEMPORARY BRIDGE AND APPROACHES REMOVAL AND THE FINAL ROADWAY RECONSTRUCTION, SITE GRADING AND CLEANUP TASKS.

THE MAJOR COMPONENTS OF THE PROJECT AND A PROPOSED GENERAL SEQUENCE ARE AS FOLLOWS:

PHASE 1

- MAINTAIN TRAFFIC ON TH 19.
- ESTABLISH PERIMETER CONTROLS AND MARK PROJECT BOUNDARIES.
- INSTALL SEDIMENT CONTROL MEASURES.
- CLEARING.
- CONSTRUCT ACCESS, INCLUDING TEMPORARY WATER DIVERSION PIPE AND IN-WATER SEDIMENT ISOLATION MEASURES FOR CONSTRUCTING THE TEMPORARY BRIDGE TO SUIT CONTRACTOR MEANS AND METHODS.
- EXCAVATE FOR AND CONSTRUCT TEMPORARY BRIDGE ABUTMENTS AND WINGWALLS REQUIRED BY CONTRACTOR DESIGN.
- REMOVE IN-WATER SEDIMENT ISOLATION MEASURES.
- CONSTRUCT TEMPORARY BRIDGE ROADWAY APPROACH EMBANKMENTS AND STABILIZE SIDE SLOPES.
- CONSTRUCT TEMPORARY BRIDGE SUPERSTRUCTURE.
- CONSTRUCT TEMPORARY BRIDGE ROADWAY APPROACH TIE-INS AND PAVE WHILE MAINTAINING ACCESS TO RESIDENCES, SCHOOL, AND STATE PARK AT ALL TIMES.
- INSTALL TEMPORARY TRAFFIC SIGNAL SYSTEM AND TRANSITION TRAFFIC INTO TEMPORARY BRIDGE AND ROADWAY USE.

PHASE 2

- INSTALL ADDITIONAL OR ADJUST SEDIMENT CONTROL MEASURES.
- SHIFT TRAFFIC ONTO TEMPORARY BRIDGE AND APPROACHES.
- EXCAVATE AND REMOVE THE EXISTING BRIDGE (BRIDGE NO. 32).
- CONSTRUCT ABUTMENTS AND WINGWALLS.
- BUILD FINAL EMBANKMENTS AND PLACE STONE FILL.
- ERECT SUPERSTRUCTURE AND POUR BRIDGE DECK.
- CONSTRUCT APPROACH SLABS.

PHASE 3

- CONSTRUCT ROADWAY EMBANKMENTS AND STABILIZE SIDE SLOPES BETWEEN THE TEMPORARY BRIDGE APPROACHES

- CONSTRUCT TH 19 ROADWAY APPROACH TIE-INS, INSTALL ROADWAY SUBBASE AND PAVE ROADWAY BETWEEN THE TEMPORARY BRIDGE APPROACHES AND INSTALL GUARDRAIL TEMPORARY CONCRETE BARRIER, WHILE MAINTAINING ACCESS TO RESIDENCES, SCHOOL, AND STATE PARK AT ALL TIMES.
- SWITCH TRAFFIC TO NEW ROADWAY AND BRIDGE
- INSTALL WINGWALL 1 AND REMOVE TEMPORARY SUPPORT OF EXCAVATION
- INSTALL PERMANENT EROSION MEASURES WHERE POSSIBLE

PHASE 4

- REMOVE TEMPORARY BRIDGE AND APPROACHES.
- CONSTRUCT REMAINING PORTIONS OF THE ROADWAY EMBANKMENTS AND STABILIZE SIDE SLOPES.
- REMOVE TEMPORARY BRIDGE ABUTMENTS, WINGWALLS, ROADWAY APPROACHES AND TEMPORARY WATER DIVERSION PIPE.
- CONSTRUCT RELOCATED STREAM CHANNEL AND FINALIZE TH 19 ROADWAY SIDE SLOPES AND PERMANENT STABILIZATION MEASURES.
- INSTALL ROADWAY GUARDRAIL.
- CONSTRUCT PAVEMENT WEARING COURSE.
- PERFORM SITE FINAL RESTORATION, INSTALL REMAINING PERMANENT STABILIZATION MEASURES AND REMOVE TEMPORARY SEDIMENT CONTROL MEASURES.

4. SITE DESCRIPTION

4.1 VEGETATED BUFFERS

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS, OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE IMPLEMENTED WHEREVER POSSIBLE.

THIS PROJECT DOES NOT RELY ON VEGETATED BUFFERS AS A MITIGATING RISK FACTOR. SILT FENCE OR BARRIER FENCE WILL BE PLACED IN APPROPRIATE LOCATIONS AS SHOWN ON THE CONSTRUCTION SITE PLANS.

4.2 STREAM CROSSINGS

THIS PROJECT INCLUDES 3 STREAM CROSSINGS, AS DESCRIBED IN SECTION 5.1 BELOW. WORK WITHIN THE WATER IS BEING CONSULTED THROUGH THE VANR DEC RIVER MANAGEMENT PROGRAM AND AUTHORIZED THROUGH THE US ARMY CORPS OF ENGINEERS.

4.3 WETLANDS

THE PROJECT INVOLVES 5220 SF OF WETLAND AND 15736 SF OF WETLAND BUFFER. THIS WORK WITHIN THESE AREAS IS BEING AUTHORIZED THROUGH THE VANR WETLANDS OFFICE AND/ OR THE US ARMY CORPS OF ENGINEERS.

4.4 TOPOGRAPHY

THE TOPOGRAPHY OF THE PROJECT AREA IS GENERALLY HILLY TO MOUNTAINOUS FORESTED LAND WITHIN A NARROW RIVER VALLEY. RESIDENCES AND JAMAICA STATE PARK ARE ADJACENT TO THE EXISTING BRIDGE IN THE NORTHEAST QUADRANT. THE NORTHEAST AND SOUTHEAST QUADRANTS BOTH SLOPE FROM THE RIVER UPHILL. THE NORTHWEST AND SOUTHWEST QUADRANTS ARE COMPRISED OF A FLOODPLAIN AREA, WHICH IS INTERSECTED BY DEPOT STREET. DEPOT STREET IS PERPENDICULAR TO THE RIVER; THE ROAD EMBANKMENTS SLOPE DOWN TO THE FLOODPLAIN IN THE NORTHWEST AND SOUTHWEST QUADRANTS.

4.5 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF NATIVE GRASSES, HERBACEOUS PLANTS, SHRUBS, AND TREES. THE IMPACT TO VEGETATION WILL BE LIMITED TO WHAT IS DIRECTLY AFFECTED BY THE PROJECT. UPON COMPLETION, THE DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES AS DESCRIBED IN THE TURF ESTABLISHMENT DETAIL, UNLESS NOTED OTHERWISE. REVEGETATION OF THE PROJECT SITE WILL BE PERFORMED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE LANDSCAPE AND EPSC FINAL SITE PLANS.

4.6 SOILS

SOIL EROSION DATA FROM THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE INDICATES THAT SOILS ON THE PROJECT SITE INCLUDE:  
WORDEN, LOAM, 3% TO 8% SLOPES, VERY BOULDERY, “K FACTOR” = 0.37  
MONADNOCK, FINE SANDY LOAM, 0% TO 8% SLOPES, VERY STONY, “K FACTOR” = 0.37  
HOUGHTONVILLE, FINE SANDY LOAM, 3% TO 8% SLOPES, VERY STONY, “K FACTOR” = 0.20  
HOUGHTONVILLE-RAWSONVILLE, FINE SANDY LOAM, 25% TO 50% SLOPES, VERY BOULDERY, “K FACTOR” = .20  
COLTON, GRAVELLY SANDY LOAM, 3% TO 8% SLOPES, “K FACTOR” = 0.10

**NOTE:** K-VALUES GENERALLY INDICATE THE FOLLOWING:  
0.0-0.23 = LOW EROSION POTENTIAL  
0.24-0.36 = MODERATE EROSION POTENTIAL  
0.37 AND HIGHER = HIGH EROSION POTENTIAL

4.7 OTHER SENSITIVE RESOURCES

EASTERN PEARLSHELL AND GIANT FLOATER MUSSELS IDENTIFIED WITHIN THE PROJECT SITE WILL BE RELOCATED THREE WEEKS PRIOR TO CONSTRUCTION AND DURING THE PERIOD OF EARLY MAY TO EARLY OCTOBER. RELOCATED MUSSELS MONITORING WILL BE CONDUCTED ONE MONTH AND ONE YEAR AFTER RELOCATION.

A SIGNIFICANT NATURAL COMMUNITY, RIVER COBBLE SHORE, RANKED S2, OR RARE IN VERMONT, WAS IDENTIFIED IN THE NORTHWEST QUADRANT OF THE PROJECT SITE.

THE NORTH QUADRANTS OF THE BRIDGE HAVE BEEN REVIEWED AND ARE POTENTIALLY ARCHAEOLOGICALLY SENSITIVE. ANY NON-NATIVE, NATURAL ITEMS DISCOVERED DURING CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER IMMEDIATELY.

THE STATE LISTED ENDANGERED TRICOLORED BAT HAS BEEN RECORDED WITHIN THE PROJECT AREA AND IT IS LOCATED WITHIN THE NORTHERN LONG-EARED BAT RANGE. POTENTIAL ROOSTING TREES IDENTIFIED ON THESE PLANS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 656.11 TREE PROTECTION. ANY TREE CUTTING OF GREATER THAN OR EQUAL TO 3 INCHES, WILL OCCUR BETWEEN NOVEMBER 1ST AND APRIL 1ST. THE CONTRACTOR SHALL REFERENCE NOTICE TO BIDDERS AND PERMIT RESTRICTIONS FOR ADDITIONAL INFORMATION.

A STATE-LISTED RARE PLANT, CANADA BURNET, WAS OBSERVED DURING A 2019 FIELD REVIEW OF THE SITE BY MCFARLAND JOHNSON. THE SPECIES WAS OBSERVED IN THE NORTHWEST QUADRANT ALONG THE BANK OF THE WEST RIVER, WITHIN A WETLAND AREA. SEEDS AND PLANTS WILL BE COLLECTED DURING THE GROWING SEASON IN SPRING 2027.

5. DRAINAGE

5.1 RECEIVING WATERS

THE WEST RIVER, ADJACENT CLASS II WETLANDS, AND ONE INTERMITTENT STREAM (IN THE NORTHWEST QUADRANT) ARE THE ONLY WATER SOURCES ON THE PROJECT SITE. RESIDENCES AND STATE PARK WATER SUPPLIES ARE FROM WELLS. THE STREAM BED OF THE WEST RIVER CONSISTS OF COBBLES AND BOULDERS. THE TRIBUTARY AREA AT THE BRIDGE CROSSING IS 178 MILES².

5.2 DISCHARGE POINTS

DUE TO THE NATURE OF A BRIDGE PROJECT BEING LOCATED DIRECTLY OVER THE RECEIVING WATER, THERE ARE NO DISCRETE DISCHARGE POINTS. ALL WATER FROM THE PROJECT AREA DRAINS TOWARD THE RIVER AND ENTERS THE RECEIVING WATER IN MULTIPLE LOCATIONS IN THE AREAS DIRECTLY ADJACENT TO THE BRIDGE.

5.3 CONVEYANCE/ FLOW PATH FROM PROJECT TO WATERS

THE MAJORITY OF THE PROJECT IS NOT CURBED AND RUNOFF DRAINS OVERLAND ACROSS ADJACENT VEGETATED SIDE SLOPES BEFORE REACHING THE RECEIVING WATER. THERE ARE TWO CATCH BASINS IN THE NORTHEAST QUADRANT OF THE PROJECT TO CAPTURE RUNOFF AND SNOW MELT AT A LOW POINT ON SALMON HOLE LANE THAT WILL CONVEY IT INTO A SMALL TRIBUTARY STREAM. OTHERWISE, SHEET FLOW OFF THE ROADWAY IS EXPECTED.

6. EROSION PREVENTION AND SEDIMENT CONTROL MEASURES

THE MEASURES INCLUDED IN THIS PLAN ARE PROVIDED AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. IT IS EXPECTED THAT THE CONTRACTORS MAY USE THIS PLAN, WITH ADJUSTMENTS AS NECESSARY, BASED ON THEIR SPECIFIC MEANS AND METHODS OF CONSTRUCTION.

REFER TO THE DETAILS INCLUDED IN THESE PLANS AND FLOW CHART FIGURES 3.1, 3.2, AND 3.3 IN THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION’S VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR SPECIFIC GUIDANCE.

APPLYING THESE EPSC MEASURES THROUGHOUT CONSTRUCTION IS CRITICAL TO THEIR SUCCESS IN MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS.

6.1 IDENTIFY LIMITS OF DISTURBANCE

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES AS WELL AS PHYSICALLY DELINEATE PHASES OF THE PROJECT UNTIL THEY HAVE REACHED FINAL STABILIZATION. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).



PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226ero_nar.dgn	PLOT DATE: 29-MAY-2026
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: L.SABOURIN	CHECKED BY: M.OOMS
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6.2 LIMIT CONCURRENT DISTURBANCE

LIMITING THE AMOUNT OF SOIL EXPOSED AT ONE TIME REDUCES THE POTENTIAL EROSION ON SITE. CONCURRENT EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY DISTURBING EARTH AS NECESSARY AND EMPLOYING STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE.

6.3 STABILIZE DISTURBED AREAS  
6.3.1 ACCESS POINTS/ ENTRANCE/ EXITS

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES ARE ANTICIPATED ON THIS PROJECT AND SHALL BE LOCATED AS SHOWN ON THIS EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

6.3.2 TEMPORARY MEASURES FOR EXPOSED AREAS DURING CONSTRUCTION

ALL AREAS OF EARTH DISTURBANCE MUST HAVE STABILIZATION IN PLACE WITHIN 14 DAYS OF INITIAL DISTURBANCE AND DISTURBED AREAS MUST BE STABILIZED IN ADVANCE OF ANY RUNOFF PRODUCING EVENT.

SURFACE ROUGHENING OF EXPOSED SLOPES, SEEDING OF TEMPORARY SLOPES AND STOCKPILES, AND STANDARD MULCHING PRACTICES DESCRIBED IN SPECIFICATION SECTION 653.07 SHALL BE UTILIZED TO TEMPORARILY STABILIZE DISTURBED AREAS.

6.3.3 PERMANENT STABILIZATION AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

TURF ESTABLISHMENT MEASURES PER SECTION 651 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, ROLLED EROSION CONTROL PRODUCT, TYPE I SHALL BE USED INSTEAD OF MULCH.

6.4 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE. THE PROJECT AREA IS RELATIVELY FLAT; HOWEVER, UPLAND AREAS NORTH AND WEST OF THE PROJECT SITE DRAIN TOWARDS THE PROJECT AREA. RUNOFF FROM THESE AREAS MAY NEED TO BE DIVERTED AWAY FROM THE PROJECT SITE DURING CONSTRUCTION OF THE TEMPORARY APPROACH AND TEMPORARY BRIDGE. THE CONTRACTOR SHALL REFER TO THE LOW RISK HANDBOOK FOR GUIDANCE.

6.5 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED ON THE DOWNHILL SIDE OF CONSTRUCTION ACTIVITIES, PRIOR TO ANY UP-SLOPE WORK.

IN-WATER SEDIMENT ISOLATION DEVICE SHALL BE ANY MEASURE WHICH EFFECTIVELY SEPARATES SEDIMENTS OR POLLUTANTS FROM WATERS OF THE STATE AS DEFINED IN THE VERMONT WATER QUALITY STANDARDS.

SILT FENCE WILL BE INSTALLED ALONG THE CONTOURS AND AS PROPOSED ON THE EPSC PLAN. WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

6.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

TEMPORARY STONE CHECK DAMS SHALL BE INSTALLED AS SHOWN ON THE PLANS.

7. CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

PERMANENT STORMWATER TREATMENT DEVICES ARE NOT ANTICIPATED TO BE NEEDED AS DESIGNED.

8. DEWATERING

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS FROM THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS. DEWATERED STORMWATER OR GROUNDWATER MUST BE FILTERED AND ROUTED IN A MANNER THAT DOES NOT RESULT IN VISIBLY TURBID DISCHARGES TO WATERS.

GENERAL SITE INSPECTIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SUBPART 2.2.1 OF THE GENERAL PERMIT FOR ALL AREAS THAT HAVE BEEN DISTURBED AND ARE NOT YET FINALLY STABILIZED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, IMMEDIATELY BEFORE ANY STORMWATER RUNOFF PRODUCING EVENT, AND DAILY DURING THE WINTER CONSTRUCTION PERIOD (OCTOBER 15 THROUGH APRIL 15). UPON INSPECTION, ANY EROSION PREVENTION AND SEDIMENT CONTROL MEASURE THAT IS NOT INSTALLED PROPERLY, IN NEED OF MAINTENANCE, OR NOT EFFECTIVELY PREVENTING SEDIMENT LADEN DISCHARGES SHALL BE CORRECTED BEFORE THE NEXT RUNOFF PRODUCING EVENT. IN ADDITION:

- IN ACCORDANCE WITH SUBPART 2.2.3 OR THE GENERAL PERMIT, IF DEWATERING ACTIVITIES ARE OCCURRING, THE PERMITTEE SHALL DAILY DURING DEWATERING ACTIVITIES INSPECT THE DEWATERING DEVICE TO ENSURE PROPER SEDIMENT CONTROL AND THE PERMITTEE SHALL COMPLETE DAILY SAMPLING REQUIREMENTS, USING A TURBIDITY METER, AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED
- IF VISIBLY DISCOLORED STORMWATER RUNS OFF THE CONSTRUCTION SITE OR DISCHARGES TO WATERS OF THE STATE, THE PERMITTEE SHALL TAKE IMMEDIATE CORRECTIVE ACTION TO INSPECT AND MAINTAIN EXISTING BEST MANAGEMENT PRACTICES (BMPs), AND TO INSTALL SUPPLEMENTAL BMPs NECESSARY TO MINIMIZE AND PREVENT THE DISCHARGE.
  - AFTER COMPLETION OF THE CORRECTIVE ACTION, THERE CONTINUES TO BE A DISCHARGE OF DISCOLORED STORMWATER FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THE PERMITTEE SHALL NOTIFY DEC BY SUBMITTING A DISCHARGE REPORT IN ACCORDANCE WITH SUBPART 2.2.2 OF THE CGP WITHIN 24 HOURS OF DISCOVERING THE DISCHARGE

THE PERMITTEE IS REQUIRED TO CONTINUE PERFORMING ALL GENERAL AND DISCHARGE INSPECTIONS UNTIL COVERAGE UNDER THIS PERMIT IS TERMINATED IN ACCORDANCE WITH SUBPART 5.5 OR EXPIRED.

DEWATERING OF SURFACE WATER IS NOT ANTICIPATED.

9. OFF-SITE AREAS

OFF-SITE WASTE AND BORROW AREAS HAVE NOT BEEN IDENTIFIED FOR THIS PROJECT. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PERMIT, AS NECESSARY, ANY OFF-SITE AREAS THAT ARE NEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 105.25 - 105.28.

ALL EROSION PREVENTION AND SEDIMENT CONTROL MEASURES NECESSARY FOR WASTE, BORROW, AND STAGING AREAS OUTSIDE THE PROJECT LIMITS SHALL BE PAID FOR PER 105.28 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

VEHICLE AND EQUIPMENT STORAGE AREAS OR AREAS ADJACENT TO CONSTRUCTION TRAILERS OR OTHER HIGH TRAFFIC AREAS SHALL BE COVERED WITH GEOTEXTILE FABRIC AND 12” OF GRAVEL. FOLLOWING COMPLETION OF CONSTRUCTION, ALL NON-NATIVE MATERIALS SHALL BE REMOVED FROM THE STAGING AREA. COMPACTED, RUTTED, OR OTHERWISE DISTURBED SOILS SHALL BE TILLED, RAKED, SEEDED, AND MULCHED.

ERODIBLE MATERIALS STOCKPILED WITHIN THE MATERIAL STORAGE AREAS SHALL BE ISOLATED WITH SILT FENCE OR OTHER ACCEPTABLE SEDIMENT BARRIER. SOIL STOCKPILED ON THE SITE SHALL BE SEEDED AND MULCHED.

10. WINTER CONSTRUCTION

CONSTRUCTION ACTIVITIES MAY CONTINUE INTO THE WINTER CONSTRUCTION SEASON, DEPENDING ON ACTUAL FIELD AND WEATHER CONDITIONS. IF CONSTRUCTION ACTIVITIES ARE TAKING PLACE BETWEEN OCTOBER 15 AND APRIL 15, THE CONTRACTOR SHALL FOLLOW REQUIREMENTS FOR WINTER CONSTRUCTION, AS DEFINED IN SPECIFIC PERMIT CONDITIONS AND AS FOLLOWS:

- ENLARGED ACCESS POINTS, STABILIZED TO PROVIDE FOR SNOW STOCKPILING.
- LIMITS OF DISTURBANCE MOVED OR REPLACED TO REFLECT BOUNDARY OF WINTER WORK.
- DEVELOPMENT OF A SNOW MANAGEMENT PLAN THAT INCLUDES:
  - ADEQUATE STORAGE AND CONTROL OF MELT-WATER
  - STORAGE OF CLEARED SNOW TO BE PLACED DOWN SLOPE OF DISTURBED AREAS AND OUT OF STORMWATER TREATMENT STRUCTURES
- AREAS OF DISTURBANCE WITHIN 100 FT OF A WATERBODY MUST HAVE REINFORCED (WOVEN WIRE) SILT FENCE INSTALLED ACROSS THE SLOPE, DOWNGRADIENT OF THE EARTH DISTURBANCE. ALTERNATIVELY, REGULAR, NON-WOVEN WIRE SILT FENCE MAY BE USED IF COMBINED WITH EROSION CONTROL BERM, EROSION LOG, OR STRAW WATTLE.
- DRAINAGE STRUCTURES MUST BE KEPT OPEN AND FREE OF SNOW AND ICE DAMS.
- SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE MUST BE INSTALLED PRIOR TO FROZEN GROUND.
- MULCH TO BE APPLIED AT A MINIMUM OF 2 INCHES DEPTH WITH 80-90% COVERAGE.
- AREAS OF DISTURBED SOILS MUST BE STABILIZED PRIOR TO ANY RUNOFF-PRODUCING EVENT, WITH THE FOLLOWING EXCEPTION:

- STABILIZATION IS NOT REQUIRED IF THE WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION WITH NO OUTLET AND A DEPTH OF 2 FT OR GREATER (OPEN UTILITY TRENCHES), PROVIDED THAT ANY DEWATERING, IF NECESSARY, IS CONDUCTED AS REQUIRED.
- PRIOR TO STABILIZATION, SNOW OR ICE MUST BE REMOVED TO LESS THAN 1" THICKNESS.
- USE STONE TO STABILIZE AREAS WHERE CONSTRUCTION VEHICLE TRAFFIC IS ANTICIPATED.

11. INSPECTION AND MAINTENANCE

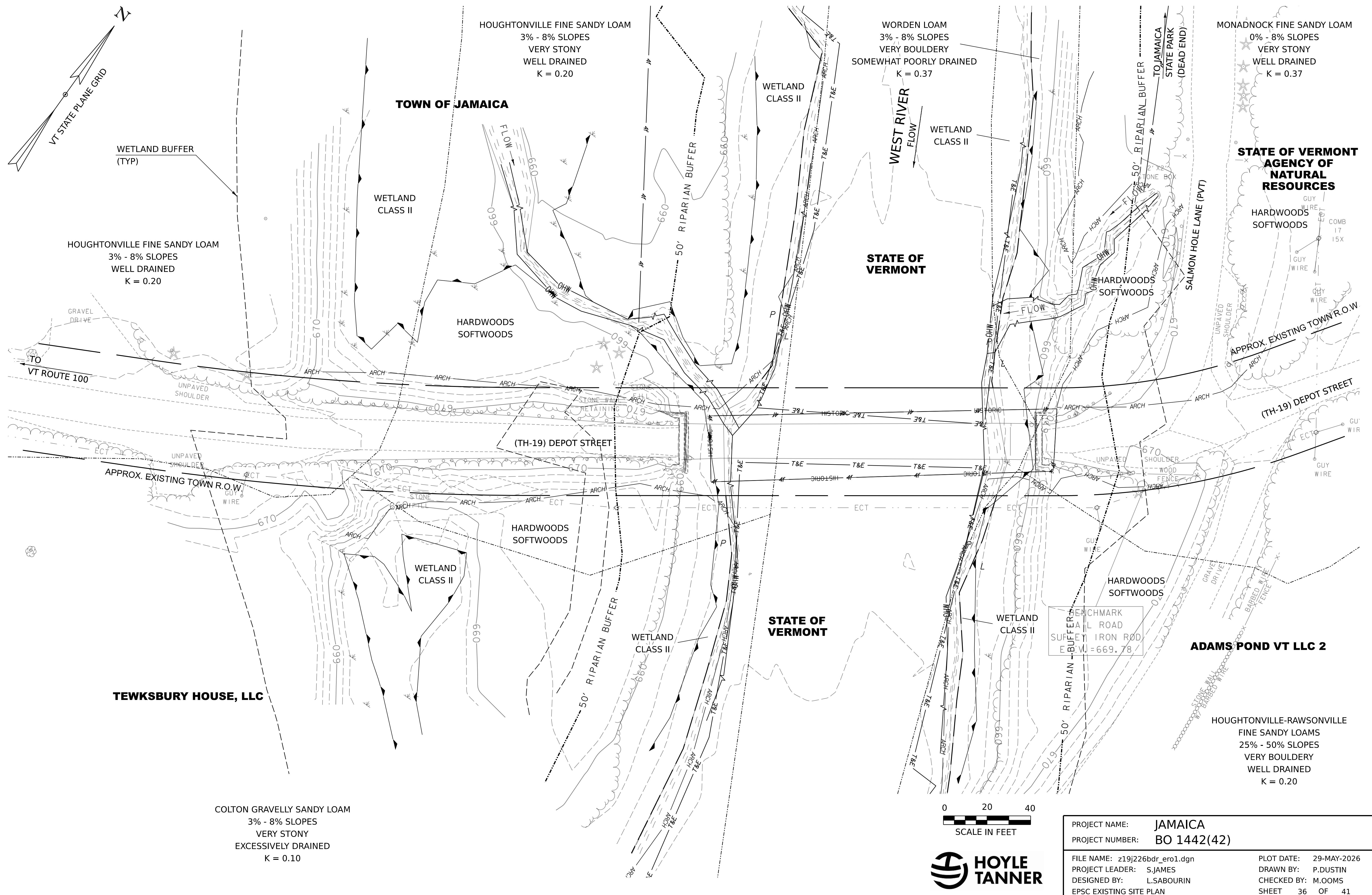
INSPECTION AND MONITORING OF THE PROJECT’S EPSC MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION 653.04 MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN, ALONG WITH PERMIT SPECIFIC INSPECTION REQUIREMENTS. INSPECTIONS OF EPSC MEASURES SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND IMMEDIATELY BEFORE ANY STORMWATER RUNOFF PRODUCING EVENT.

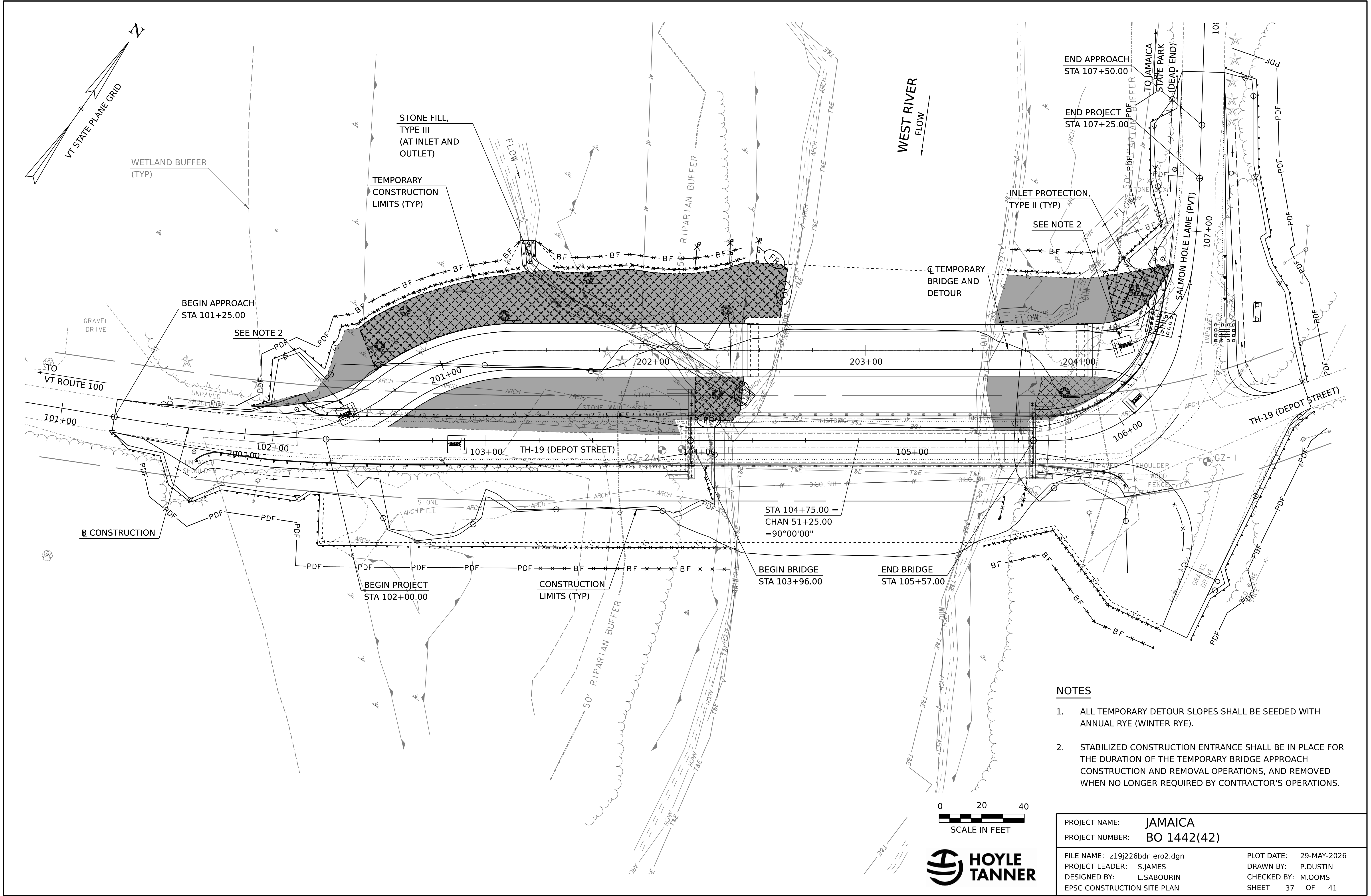
DURING DEWATERING OPERATIONS, INSPECTIONS OF THE DEWATERING DISCHARGE SHALL BE CONDUCTED ONCE PER DAY. SAMPLES SHALL BE TAKEN AT ALL POINTS WHERE DEWATERING WATER IS DISCHARGED AND MUST BE TAKEN AFTER THE DEWATERING WATER HAS BEEN TREATED BY INSTALLED TREATMENT DEVICES AND PRIOR TO DISCHARGE OFF SITE INTO A RECEIVING WATER, CONSTRUCTED OR NATURAL SITE DRAINAGE FEATURE, OR STORM DRAIN INLET. SAMPLES MUST BE MEASURED USING A TURBIDITY METER (NTUS), CALIBRATED PRIOR TO EACH DAY’S USE.

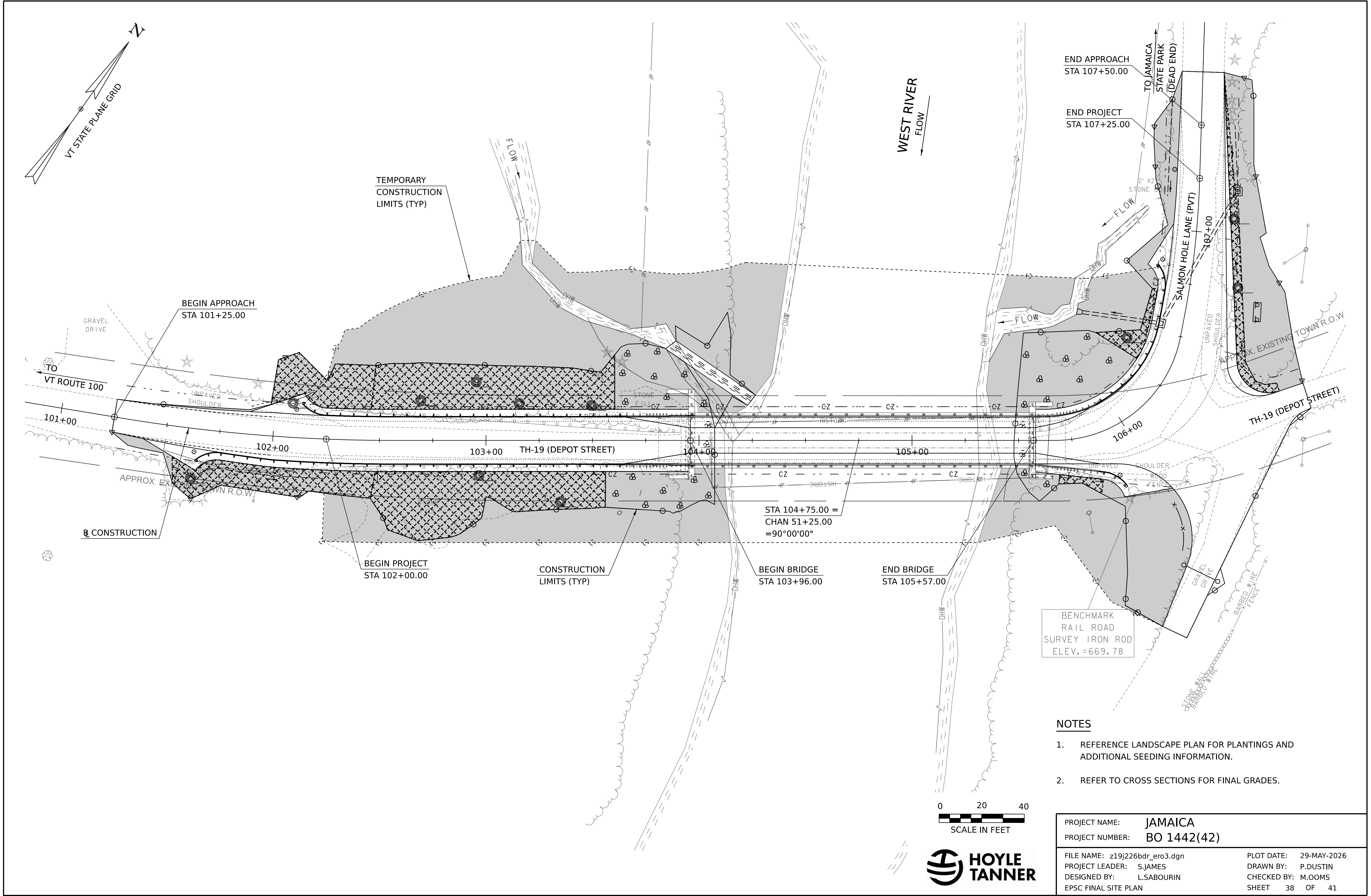
CONTRACTORS SHALL PROVIDE A COPY OF THEIR INSPECTION FORMS AS PART OF THEIR EPSC PLAN.

ALL EPSC MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

	PROJECT NAME:	JAMAICA		
	PROJECT NUMBER:	BO 1442(42)		
	FILE NAME:	z19j226ero_nar.dgn	PLOT DATE:	29-MAY-2026
	PROJECT LEADER:	S.JAMES	DRAWN BY:	P.DUSTIN
DESIGNED BY:		L.SABOURIN	CHECKED BY:	M.OOMS
EPSC NARRATIVE 2			SHEET	35 OF 41







PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226bdr_ero3.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: L.SABOURIN  
EPSC FINAL SITE PLAN

PLOT DATE: 29-MAY-2026  
DRAWN BY: P.DUSTIN  
CHECKED BY: M.OOMS  
SHEET 38 OF 41

VAOT LOW GROW/FINE FESCUE MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
38%	57	95	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	90%	98%
29%	43.5	72.5	HARD FESCUE	FESTUCA LONGIFOLIA	85%	95%
15%	22.5	37.5	CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA	87%	95%
15%	22.5	37.5	ANNUAL RYEGRASS	LOLIUM MULTIFLORUM	90%	95%
3%	4.5	7.5	INERTS			
100%	150	250				

VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS	85%	98%
5.0%	3	6	ANNUAL RYE GRASS	LOLIUM MULTIFLORUM	85%	95%
100%	60	120				

GENERAL AMENDMENT GUIDANCE		
FERTILIZER	LIME	
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

1. SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
2. SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER.
5. HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.
6. HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED PROPOSED FOR USE WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED.
7. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES	TURF ESTABLISHMENT
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.15)	REVISIONS
	JANUARY 12, 2015    WHF

NOTE  
REFER TO THE WET AREA SEED NOTES ON THE LANDSCAPE PLAN FOR WET AREA SEED MIXES.

SYMBOL

FR

NOT TO SCALE

VEGETATIVE PLANTINGS OR OTHER

WILLOW BRUSH LAYER 1/2" TO 2" DIAMETER

BASEFLOW

HERBACEOUS PLUGS AS SPECIFIED

9 GAUGE GALVANIZED WIRE

HARDWOOD POST 2"x2"x3'

FIBER ROLL

CONSTRUCTION SPECIFICATIONS

1. EXCAVATE A SHALLOW TRENCH SLIGHTLY BELOW BASEFLOW OR A 4" TRENCH ON SLOPE CONTOURS
2. PLACE THE ROLL IN THE TRENCH AND ANCHOR WITH 2"x2" POSTS PLACED ON BOTH SIDES TO THE ROLL AND SPACED LATERALLY ON 2' TO 4' CENTERS. TRIM THE TOP OF THE POSTS EVEN WITH THE EDGE OF THE ROLL, IF NECESSARY.
3. NOTCH THE POSTS AND TIE TOGETHER, ACROSS THE ROLL, WITH 9 GAUGE GALVANIZED WIRE OR 1/8" DIAMETER BRAIDED NYLON ROPE.
4. PLACE SOIL EXCAVATED FROM THE TRENCH BEHIND THE ROLL AND HAND TAMP. PLANT WITH SUITABLE HERBACEOUS OR WOODY VEGETATION AS SPECIFIED ELSEWHERE IN THE CONTRACT DOCUMENTS. VEGETATION SHALL BE PLACED IMMEDIATELY ADJACENT TO THE ROLL TO PROMOTE ROOT GROWTH INTO THE FIBER. HERBACEOUS VEGETATION, IF SPECIFIED, SHALL BE PLANTED INTO THE FIBER ROLL.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FIBER ROLL  
(EROSION LOG)

NOTES:  
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR EROSION LOG (PAY ITEM 653.60)

REVISIONS

MARCH 21, 2008	WHF
JANUARY 13, 2009	WHF



PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226ero_dtl.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: L.SABOURIN  
EPSC DETAILS 1

PLOT DATE: 29-MAY-2026  
DRAWN BY: P.DUSTIN  
CHECKED BY: M.OOMS  
SHEET 39 OF 41



LEGEND

AOT LOW GROW/FINE FESCUE MIX

WET AREA SEED

DECIDUOUS TREE

EVERGREEN TREE

DECIDUOUS SHRUB

KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONTAINER	SPACING (ON CENTER)
TREES - EVERGREEN						
TC	7	<i>Tsuga canadensis</i>	Eastern Hemlock	3-4' height, natural	CONT.	15' O.C.
TREES - DECIDUOUS						
AS	1	<i>Acer saccharum</i>	Sugar Maple	5-6' height	CONT.	25' O.C.
AR	6	<i>Acer rubrum</i>	Red Maple	5-6' height	CONT.	25' O.C.
CC	6	<i>Carpinus caroliniana</i>	American Hornbeam	5-6' height	CONT.	25' O.C.
QB	1	<i>Quercus bicolor</i>	Swamp White Oak	5-6' height	CONT.	25' O.C.
QR	1	<i>Quercus rubra</i>	Red oak	5-6' height	CONT.	30' O.C.
SHRUBS - DECIDUOUS						
AL	3	<i>Alnus rugosa</i>	Speckled Alder	3 GAL	CONT.	12' O.C.
CR	8	<i>Cornus racemosa</i>	Gray dogwood	3 GAL	CONT.	12' O.C.
HV	3	<i>Hamamelis virginiana</i>	Common witch hazel	3 GAL	CONT.	15' O.C.
SC	3	<i>Sambucus canadensis</i>	Elderberry	3 GAL	CONT.	8' O.C.
VO	4	<i>Viburnum opulus var. americanum</i>	Highbush cranberry	3 GAL	CONT.	8' O.C.

The landscape plan illustrates a wetland area with various plantings and existing features. Key elements include:

- Plantings:** Numerous circles represent trees and shrubs, each labeled with a key code and quantity. For example, (2) CC, (3) TC, (2) AR, (3) AL, (1) QB, (3) CR, (3) HV, (3) TC, (1) AR, (1) QR, (2) TC, (4) CR, (1) TC, (1) AR, (1) AS, (2) CC, (1) TC, (1) CR, (2) AR, (3) SC, and (4) VO.
- Wetland Areas:** Shaded regions indicate areas to be seeded, with labels like 'WET AREA SEED' and 'AOT LOW GROW/FINE FESCUE MIX'.
- Infrastructure:** The plan shows 'TH-19 (DEPOT STREET)' running horizontally, 'SALMON HOLE LANE (PVT)' running vertically, and 'TO JAMAICA STATE PARK (DEAD END)' at the top right. Stationing markers (101+00 to 107+00) are present along the main road.
- Flow and Orientation:** Arrows indicate 'WEST RIVER FLOW' and 'FLOW' directions. A north arrow is located in the top right corner.
- Legend:** A legend in the top left corner defines symbols for AOT Low Grow/Fine Fescue Mix, Wet Area Seed, Deciduous Tree, Evergreen Tree, and Deciduous Shrub.
- Table:** A table in the top center lists the plantings, including their key, quantity, scientific name, common name, size, container, and spacing.
- Notes:** A series of notes on the left side provide instructions for seedling protection, wetland preservation, and planting requirements.
- Scale:** A scale bar at the bottom right indicates distances in feet (0, 20, 40).
- Project Information:** A table at the bottom right contains project details such as name, number, file name, leader, designer, and dates.

NOTES

1. SEEDED AREAS SHALL BE PROTECTED IN ACCORDANCE WITH SPECIFICATION SUBSECTION 651.07 PROTECTION.WHERE WETLANDS OR WETLAND BUFFERS ARE PRESENT, STRAW MULCH SHALL BE USE INSTEAD OF HAY MULCH.
2. IF AREAS WITHIN PDF OR BARRIER FENCE ARE NOT DISTURBED, THEY SHOULD REMAIN VEGETATED, AND ADDITIONAL REVEGETATION IS NOT REQUIRED.
3. PROVIDING SUFFICIENT MOISTURE IS CRITICAL DURING THE ENTIRE PLANT ESTABLISHMENT PERIOD. WATERING TO BE PAID FOR UNDER 656.6500 LANDSCAPE WATERING.
4. FOR WETLAND AREAS RECEIVING WET AREA SEED, NO TOPSOIL OR GRUBBINGS SHALL BE ADDED. SCARIFY SOIL SURFACE TO LOOSEN SOIL FOR BETTER SEED-SOIL CONTACT. FOR TREES AND SHRUBS IN WETLAND AREAS, LANDSCAPE BACKFILL SHALL BE USED PER VTRANS STANDARD E-1 TREE PLANTING AND E-2 SHRUB PLANTING.
5. SEE WETLAND PERMIT FOR LANDSCAPE-RELATED PROJECT COMMITMENTS.

6. IN WETLAND AREAS, CONTRACTOR SHALL LEAVE EXISTING STUMPS IN PLACE. SEE GENERAL NOTES SHEET FOR GUIDANCE ON SEPARATING TEMPORARY FILL FROM EXISTING GRADE. AFTER TEMPORARY FILL IS REMOVED, WOODY STUMPS SHALL BE LEFT IN PLACE AND EXPOSED TO AID IN REGENERATION.
7. IN WETLAND AREAS, FINAL GRADE TO BE LEFT UNEVEN, WITH SURFACE UNDULATIONS TO CREATE ADDITIONAL HABITAT, MATCHING ADJACENT, NATURAL LANDSCAPE CONDITIONS. DEPRESSIONS IN FINISH GRADE SHALL VARY, WITH 6-12" IN DEPTH, AND LESS THAN 2"IN DIAMETER. EXISTING STUMPS AND ROCKS TO BE LEFT IN PLACE. NEW PLANTINGS TO FIT WITHIN EXISTING STUMPS. PAYMENT FOR WETLAND DEPRESSIONS TO BE INCIDENTAL TO PAY ITEM 528.1000, ONE LANE TEMPORARY BRIDGE.

WET AREA SEED

WET AREA SEED TO BE PAID FOR UNDER PAY ITEM 651.1600, TURF ESTABLISHMENT, SPECIALTY SEED. APPLICATION RATES VARY BY SEED MIX. WET AREA SEED TO BE ONE OF THE FOLLOWING, OR APPROVED EQUAL:

- VERMONT WET MEADOW & DETENTION BASIN MIX  
SUPPLIER: VERMONT WETLAND PLANT SUPPLY. APPLICATION RATE: 35 LBS/ACRE.

- NEW ENGLAND WET MIX (WETLAND SEED MIX)  
SUPPLIER: NEW ENGLAND WETLAND PLANTS, INC. APPLICATION RATE: 18 LBS/ACRE.

- PA NEW ENGLAND PROVINCE FACW MIX  
SUPPLIER: ERNST CONSERVATION SEEDS, INC. APPLICATION RATE: 20 LBS/ACRE WITH A COVER CROP (GRAIN RYE (1 SEP TO 30 APR; 30 LBS/ACRE). JAPANESE MILLET OR BARNYARD GRASS (1 MAY TO 31 AUG; 10 LBS/ACRE)).

PROJECT NAME:	JAMAICA	PLOT DATE:	29-MAY-2026
PROJECT NUMBER:	BO 1442(42)	DRAWN BY:	B.DONAHUE
FILE NAME:	z19j226bdr_ids.dgn	CHECKED BY:	M.OOMS
PROJECT LEADER:	S.JAMES	SHEET	41 OF 41
DESIGNED BY:	B.DONAHUE		
LANDSCAPE PLAN			