

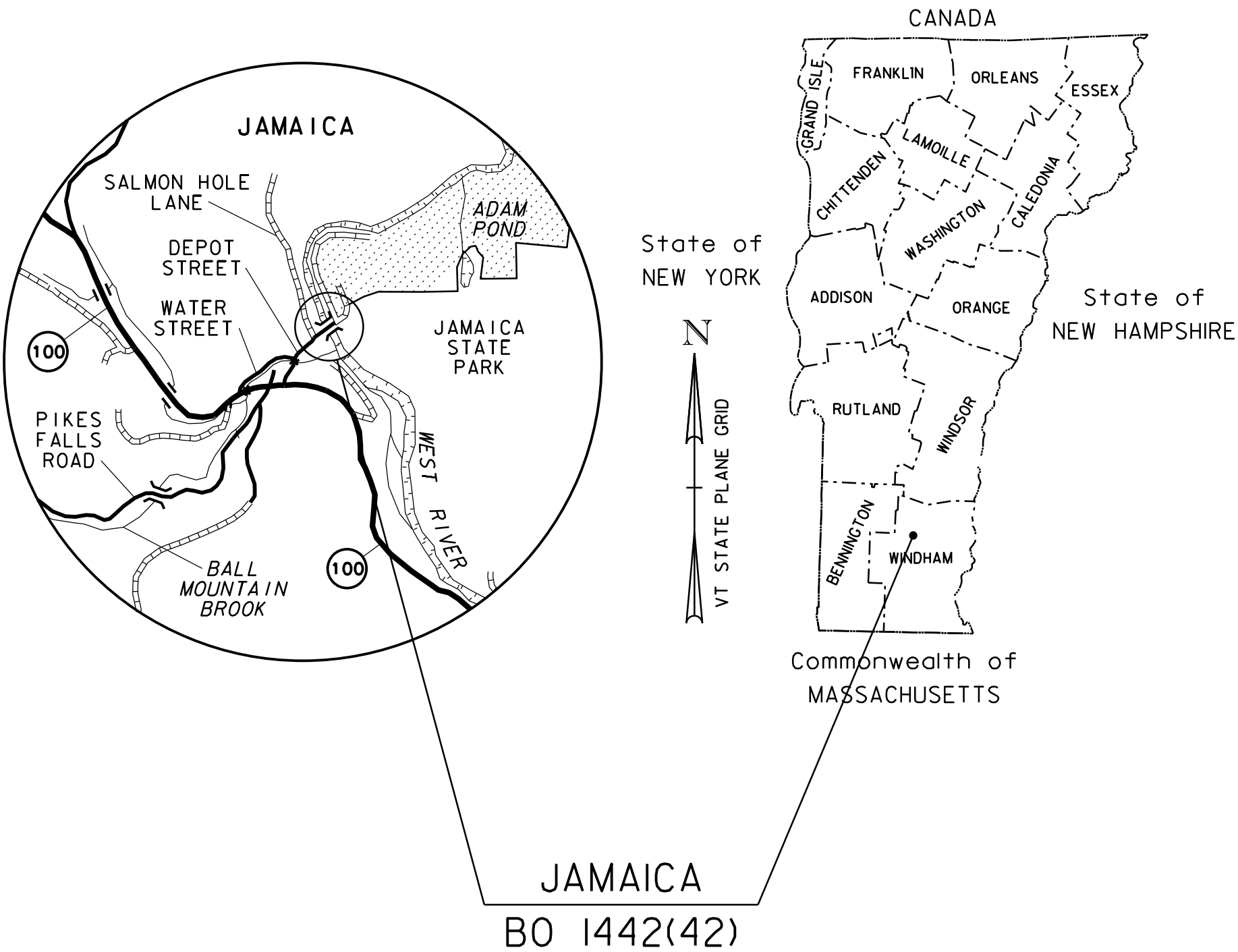
REVIEWER NOTES:

1. FINAL HYDRAULICS HAVE NOT YET BEEN PROVIDED TO THE DESIGN TEAM. IT IS ANTICIPATED THESE WILL BE RECEIVED AND INCORPORATED INTO THE PROJECT DESIGN, AS APPLICABLE.
2. PROPOSED CONSTRUCTION CENTERLINE SHIFTED SOUTH BETWEEN STATIONS 11+80 AND 13+90 TO TIE INTO TANGENT ACROSS BRIDGE.
3. CONCEPTUAL TEMPORARY BRIDGE LENGTH IS 160 FEET. TEMPORARY IN-STREAM CONSTRUCTION LIMITS INCLUDE AREA SUFFICIENT TO AID IN ERECTING THE TEMPORARY BRIDGE AND FOR CONSTRUCTING A TEMPORARY PIER IF REQUIRED BASED ON CONTRACTOR MEANS AND METHODS.
4. THE PROPOSED SIDE SLOPES BETWEEN STATIONS 12+25 - 14+00, RT HAVE BEEN DESIGNED TO TIE INTO EXISTING GROUND WITHIN THE EXISTING R.O.W. TO AVOID IMPACTS TO A POTENTIALLY HISTORIC AND ARCHAEOLOGICALLY SENSITIVE PROPERTY. ARCHAEOLOGICALLY SENSITIVE AREAS DELINEATED ON RESOURCE SITE PLAN.
5. TEMPORARY STONE CAUSEWAY ELEVATIONS AND LIMITS SHOWN ARE BASED ON A 6 FOOT TEMPORARY WATER DIVERSION PIPE SIZED TO MATCH THE EXISTING STREAM WIDTH.
6. TRAFFIC SIGN AND LINE LAYOUT WILL BE COMPLETED DURING FINAL PLANS.
7. CONCEPTUAL CONSTRUCTION SEQUENCING ASSUMES THE TEMPORARY STONE CAUSEWAY, OPTIONAL TEMPORARY BRIDGE PIER, TRUSS SUPPORT SYSTEM AND WATER DIVERSION MAY NEED TO BE IN PLACE DURING THE WINTER MONTHS. IT IS UNDERSTOOD THERE IS A CONCERN WITH ICE JAMS. THIS SHOULD BE DISCUSSED DURING CONSTRUCTABILITY MEETING.

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT
TOWN OF JAMAICA
COUNTY OF WINDHAM

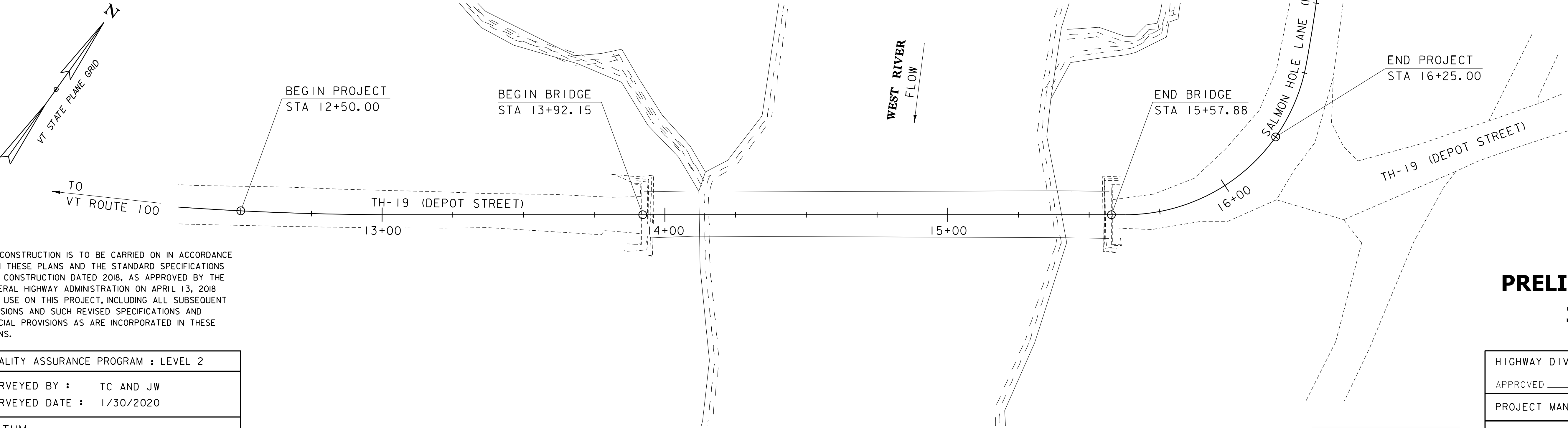


ROUTE NO: TOWN HIGHWAY 19 (DEPOT STREET) (CLASS 3) BRIDGE NO: 32

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: REHABILITATE BRIDGE NO. 32 ON TH-19 WITH RELATED APPROACH ROADWAY AND CHANNEL WORK. TEMPORARY BRIDGE WILL REQUIRE CHANNEL WORK.

LENGTH OF BRIDGE: 165.73 FEET
LENGTH OF ROADWAY: 209.27 FEET
LENGTH OF PROJECT: 375.00 FEET



CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	TC AND JW
SURVEYED DATE :	1/30/2020
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)

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



PRELIMINARY PLANS
3/2/2023

HIGHWAY DIVISION, CHIEF ENGINEER	
APPROVED _____	DATE _____
PROJECT MANAGER : GARY LAROCHE	
PROJECT NAME :	JAMAICA
PROJECT NUMBER :	BO 1442 (42)
SHEET 1 OF 35 SHEETS	

INDEX OF SHEETS										FINAL HYDRAULIC REPORT									
<div>PLAN SHEETS</div> <div><div>1</div><div>TITLE SHEET</div></div> <div><div>2</div><div>PRELIMINARY INFORMATION SHEET</div></div> <div><div>3 - 4</div><div>TYPICAL SECTION SHEET 1-2</div></div> <div><div>5</div><div>CONVENTIONAL SYMBOLOGY LEGEND SHEET</div></div> <div><div>6</div><div>TIE SHEET</div></div> <div><div>7</div><div>LAYOUT SHEET</div></div> <div><div>8</div><div>PROFILE SHEET</div></div> <div><div>9</div><div>TRAFFIC CONTROL SHEET</div></div> <div><div>10</div><div>TEMPORARY DETOUR PROFILE SHEET</div></div> <div><div>11</div><div>UTILITY LAYOUT</div></div> <div><div>12</div><div>TRAFFIC SIGN AND LINE LAYOUT</div></div> <div><div>13</div><div>TRUSS ELEVATIONS</div></div> <div><div>14</div><div>LATERAL BRACING AND FLOOR FRAMING</div></div> <div><div>15 - 20</div><div>TH-19 CROSS SECTIONS 1-6</div></div> <div><div>21 - 24</div><div>CHANNEL CROSS SECTIONS 1-4</div></div> <div><div>25 - 28</div><div>TEMPORARY CAUSEWAY CHANNEL SECTIONS 1-4</div></div> <div><div>29 - 30</div><div>EPSC NARRATIVE 1-2</div></div> <div><div>31</div><div>EPSC EXISTING SITE PLAN</div></div> <div><div>32</div><div>EPSC CONSTRUCTION SITE PLAN</div></div> <div><div>33</div><div>EPSC FINAL SITE PLAN</div></div> <div><div>34</div><div>EPSC DETAILS</div></div> <div><div>35</div><div>LANDSCAPE PLAN</div></div>																			

DETAIL SHEETS

HSD-621.07A

MIDWEST GUARDRAIL SYSTEM (MGS)

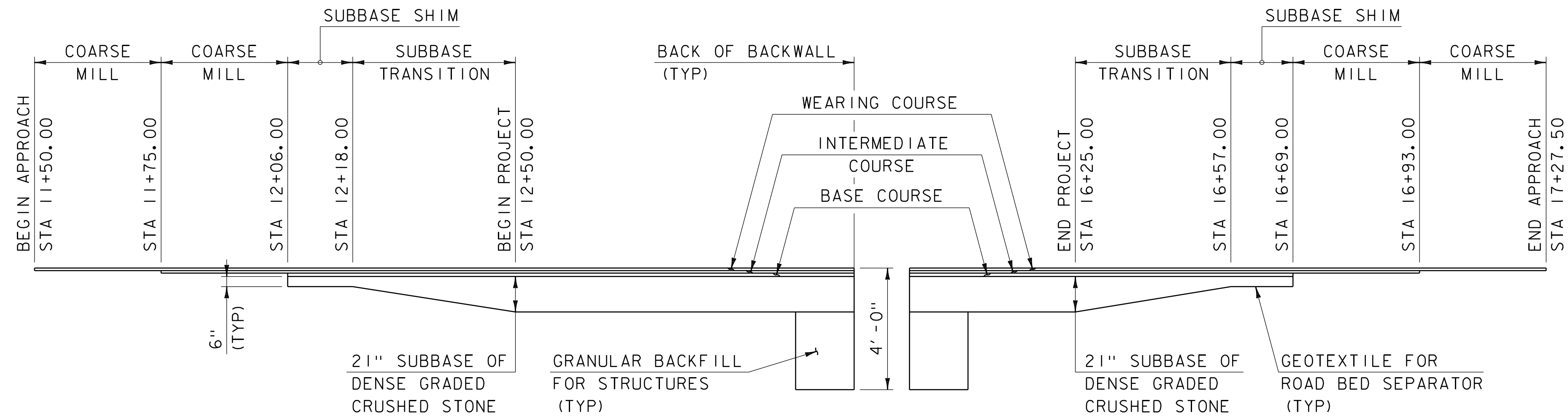
1/4/2021

HSD-621.07B

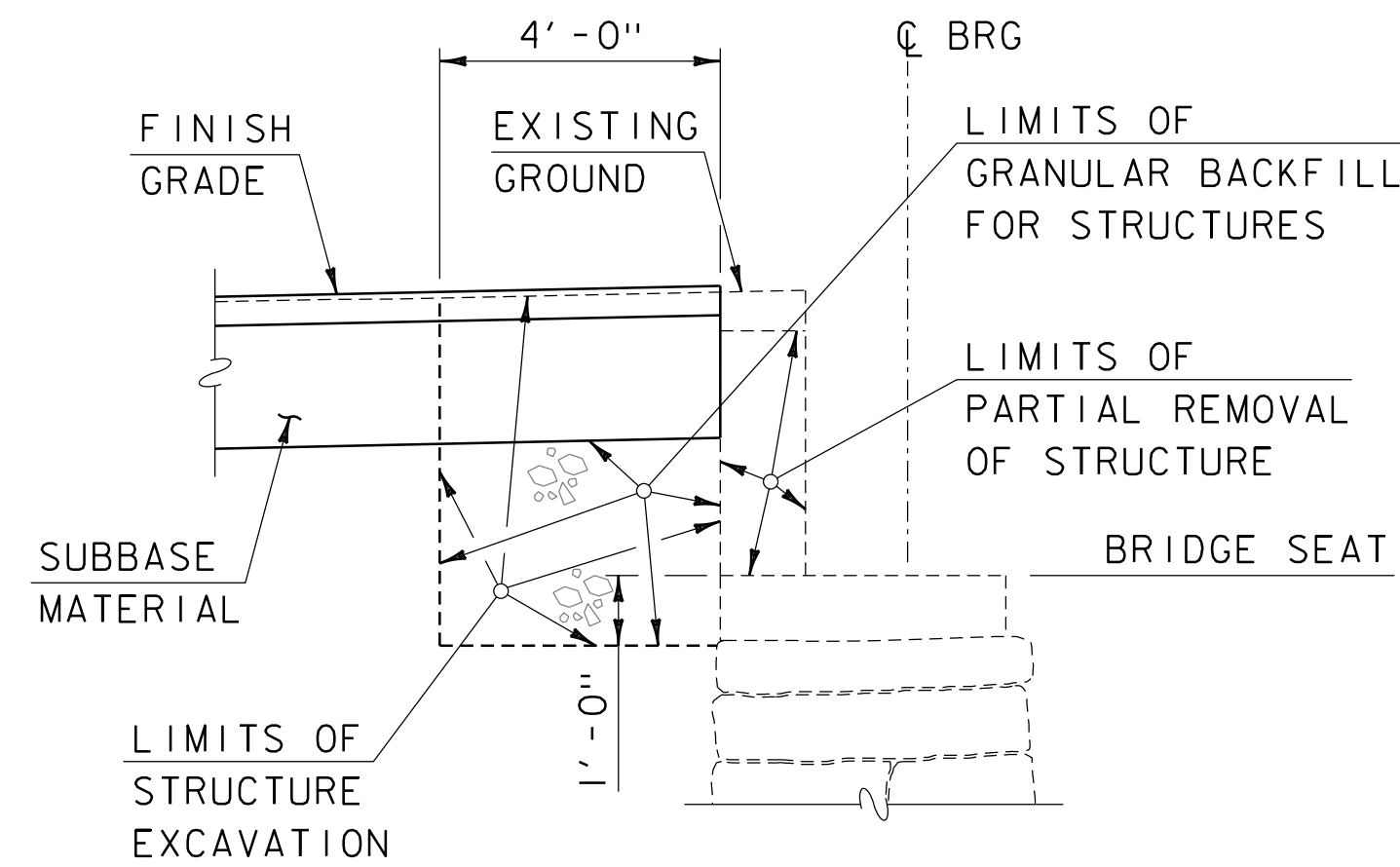
W-BEAM GUARDRAIL COMPONENTS

4/17/2019

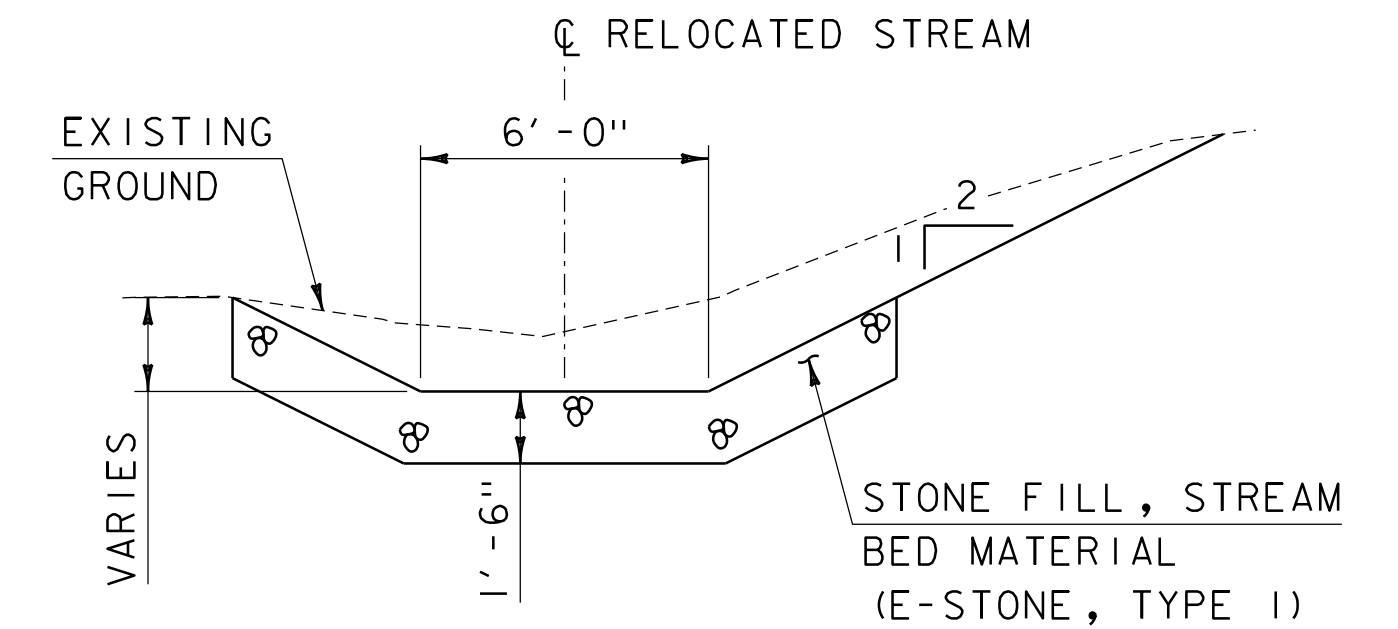




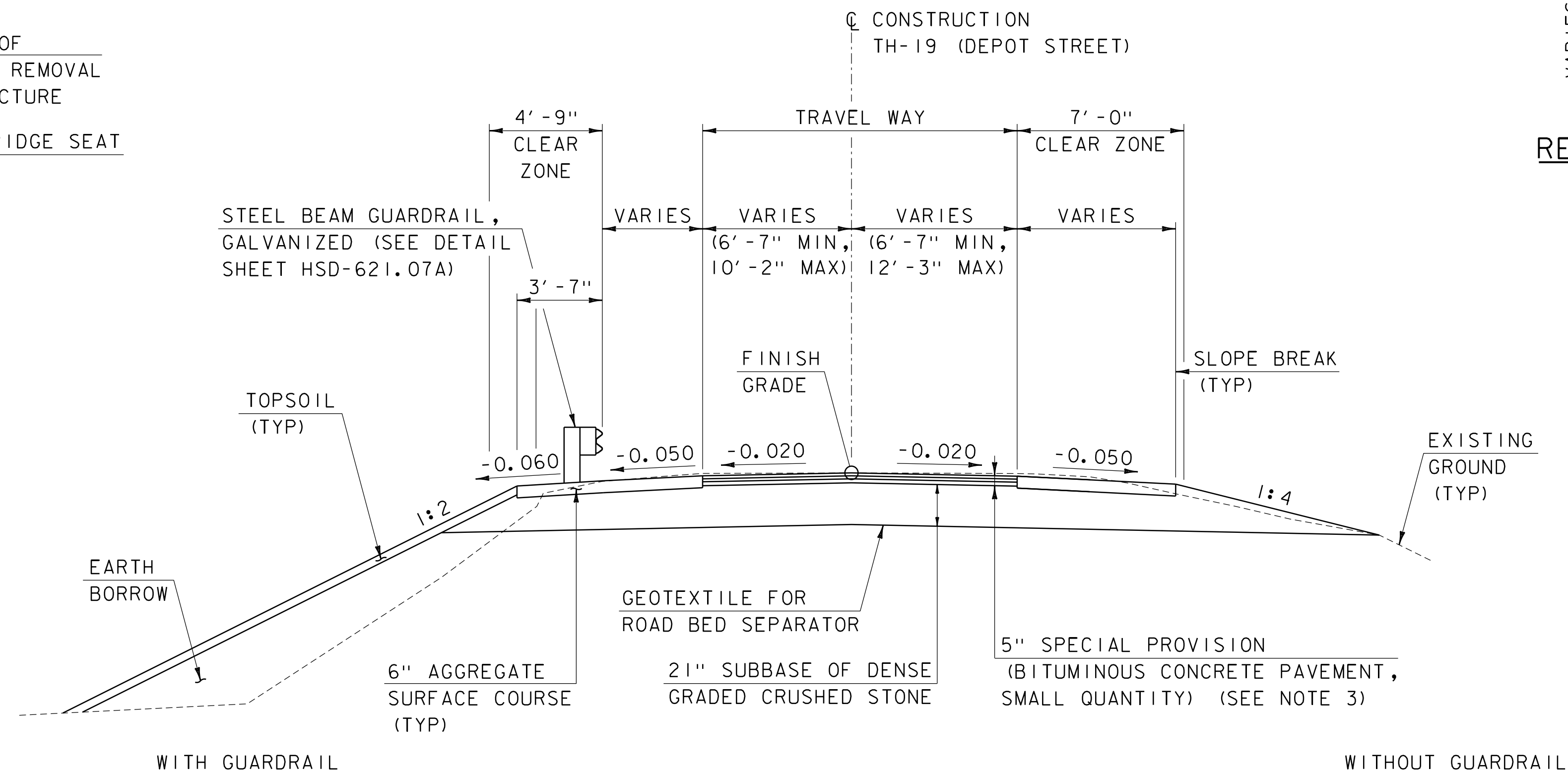
MATERIAL TRANSITION DETAIL
NOT TO SCALE



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



RELOCATED STREAMBED DETAIL
SCALE: $\frac{1}{4}$ " = 1'-0"



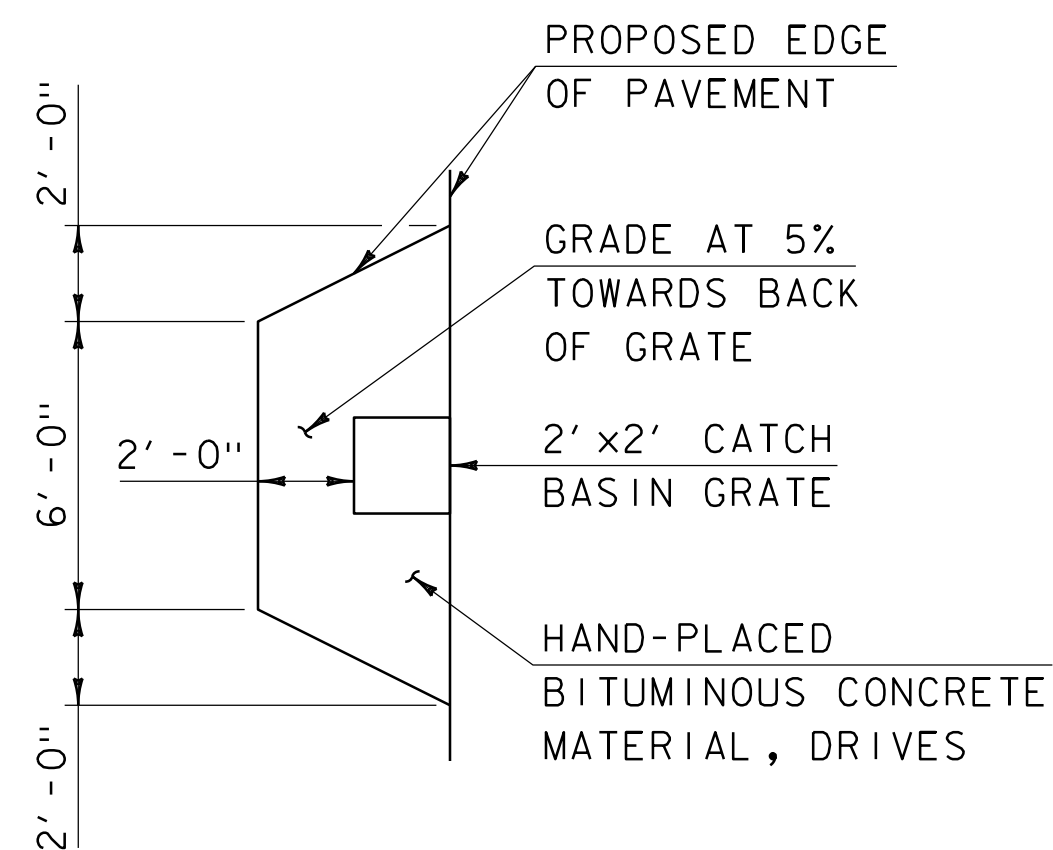
PROPOSED TH-19 TYPICAL SECTION
SCALE: $\frac{1}{4}$ " = 1'-0"

MATERIAL TOLERANCES
(IF USED ON PROJECT)

SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- $\frac{1}{4}$ "
- AGGREGATE SURFACE COURSE	+/- $\frac{1}{2}$ "
SUBBASE	+/- 1"
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.
- EMULSIFIED ASPHALT IS TO BE APPLIED AT A RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE COURSES OF NEW PAVEMENT AND 0.08 GAL/SY ON COLD PLANED SURFACES AS DIRECTED BY THE ENGINEER.
- 5" BITUMINOUS CONCRETE PAVEMENT SHALL CONSIST OF THE FOLLOWING:
 $\frac{1}{2}$ " TYPE IVS WEARING COURSE OVER
 $\frac{1}{2}$ " TYPE IVS INTERMEDIATE COURSE
2" TYPE IIIS BASE COURSE

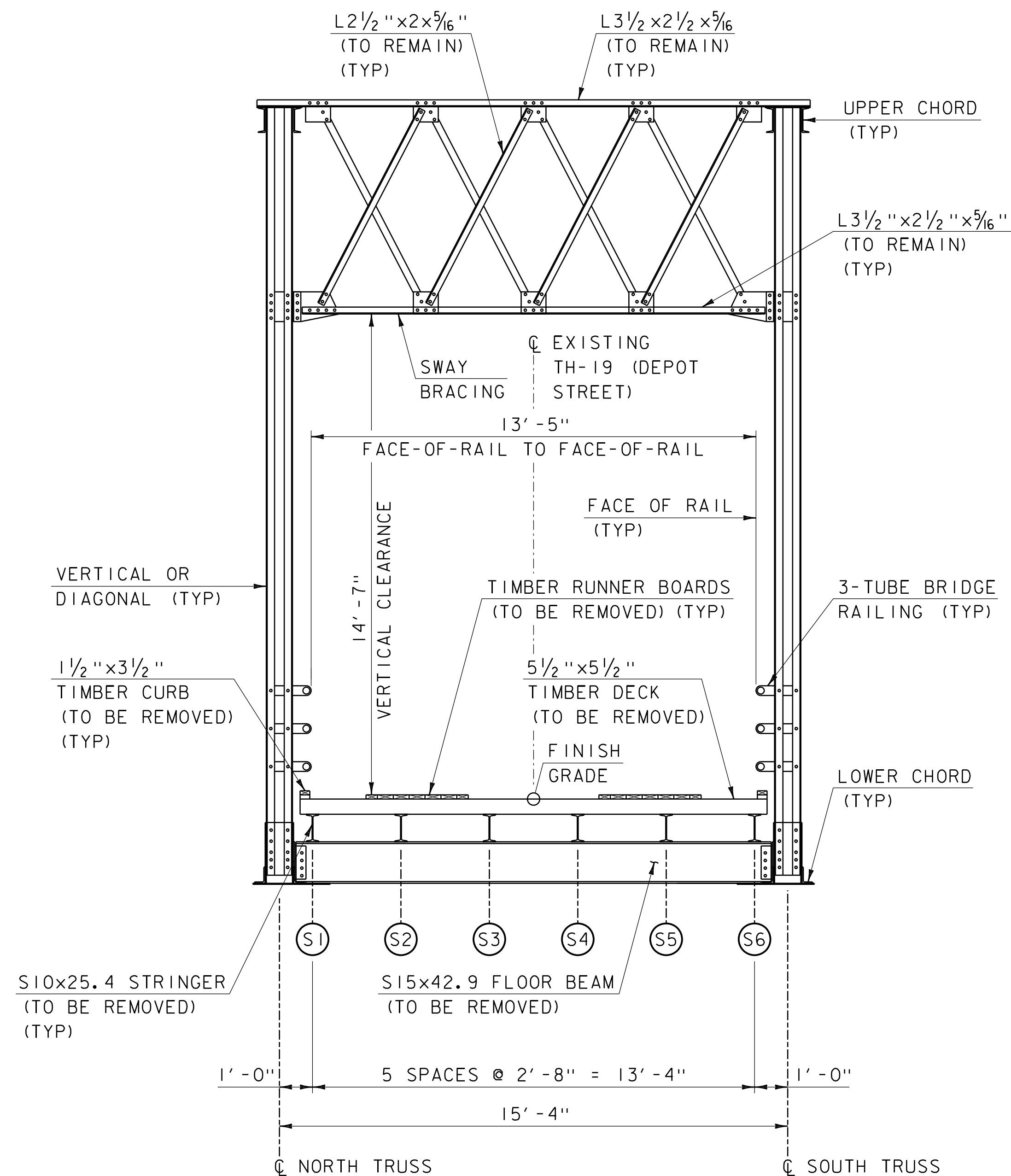


PAVED INLET DETAIL
NOT TO SCALE

BITUMINOUS CONCRETE PAVEMENT SUPERPAVE MIXTURE DESIGN CRITERIA	
DESIGN LANE / DESIGN LIFE ESAL	15,660
DESIGN NUMBER OF GYRATIONS	50
PERFORMANCE GRADE ASPHALT BINDER	SEE TABLE 406.03F

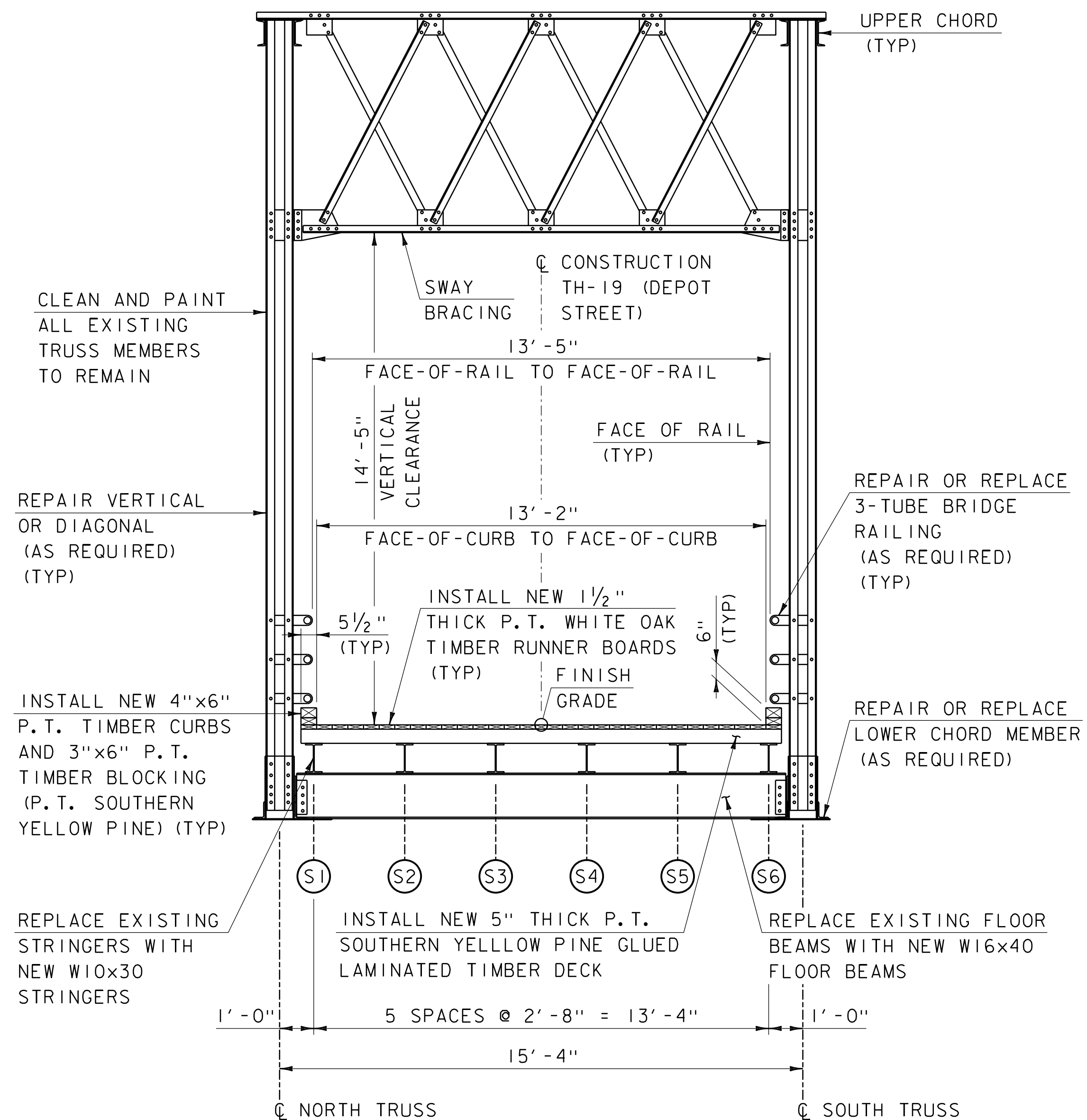


PROJECT NAME: JAMAICA	PLOT DATE: 3/2/2023
PROJECT NUMBER: BO 1442(42)	DRAWN BY: P.DUSTIN
FILE NAME: z19j226+typ.dgn	CHECKED BY: K.HAMPE
PROJECT LEADER: S.JAMES	SHEET 3 OF 35
DESIGNED BY: A.SPIELER	
TYPICAL SECTION SHEET 1	



EXISTING TYPICAL BRIDGE SECTION

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



REHABILITATED TYPICAL BRIDGE SECTION

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

NOTE

- PROPOSED BRIDGE REHABILITATION WORK INCLUDES:
- TIMBER DECK AND CURB REPLACEMENT
 - STRINGER REPLACEMENT
 - FLOOR BEAM REPLACEMENT
 - TRUSS LOWER CHORD MEMBERS L0-L2 AND L7-L9 INTERIOR ANGLE REPLACEMENT
 - LOWER LATERAL BRACING MEMBER REPLACEMENT IN PANELS 0 AND 9
 - TRUSS MEMBER AND GUSSET PLATE REPAIR OR REPLACEMENT AS REQUIRED
 - ROCKER/ROLLER EXPANSION BEARING AND ANCHOR BOLT REPLACEMENT
 - FIXED BEARING REHABILITATION
 - BRIDGE RAIL REPAIR
 - EXISTING PAINT REMOVAL AND REPAINTING
 - ABUTMENT REPAIR AND BACKWALL MODIFICATION



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

FILE NAME: z19j226+typ.dgn
PROJECT LEADER: S.JAMES
DESIGNED BY: A.SPIELER
TYPICAL SECTION SHEET 2

PLOT DATE: 3/2/2023
DRAWN BY: P.DUSTIN
CHECKED BY: K.HAMPE
SHEET 4 OF 35

GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

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

POINT	CODE	DESCRIPTION
	BF	BARRIER FENCE
	CH	CHANNEL EASEMENT
	CONST	CONSTRUCTION EASEMENT
	CUL	CULVERT EASEMENT
	D&C	DISCONNECT & CONNECT
	DIT	DITCH EASEMENT
	DR	DRAINAGE EASEMENT
	DRIVE	DRIVEWAY EASEMENT
	EC	EROSION CONTROL
	HWY	HIGHWAY EASEMENT
	I&M	INSTALL & MAINTAIN EASEMENT
	LAND	LANDSCAPE EASEMENT
	PDF	PROJECT DEMARCATION FENCE
	R&RES	REMOVE & RESET
	R&REP	REMOVE & REPLACE
	R.T.&I.	RIGHT, TITLE, AND INTEREST
	SR	SLOPE RIGHT
	UE	UTILITY EASEMENT
	(P)	PERMANENT EASEMENT
	(T)	TEMPORARY EASEMENT
■	BNDNS	BOUND SET
▣	BNDNS	BOUND TO BE SET
⊙	IPNF	IRON PIN FOUND
●	IPNS	IRON PIN TO BE SET
⊠	CALC	EXISTING ROW POINT
○	PROW	PROPOSED ROW POINT
[LENGTH]		LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLOLOGY

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

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

PROJECT CONSTRUCTION SYMBOLOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOLOGY	
— - - - CZ — - - -	CLEAR ZONE
—————	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES	
△ — △ — △ — △	TOP OF CUT SLOPE
⊙ — ⊙ — ⊙ — ⊙	TOE OF FILL SLOPE
⊗ ⊗ ⊗ ⊗ ⊗ ⊗	STONE FILL
-----	BOTTOM OF DITCH &
=====	CULVERT PROPOSED
-----	STRUCTURE SUBSURFACE
PDF ——— PDF ———	PROJECT DEMARCATION FENCE
BF — x — x — BF — x — x —	BARRIER FENCE
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	
ONNNNOONNOONNO	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 — x — x —	FENCE (EXISTING)
□ — □ — □ — □ — □ — □ —	FENCE WOOD POST
○ — ○ — ○ — ○ — ○ — ○ —	FENCE STEEL POST
~~~~~	GARDEN
○ — ○ — ○ — ○ — ○ — ○ —	ROAD GUARDRAIL
	RAILROAD TRACKS
-----	CULVERT (EXISTING)
○○○○○○○○○○○○○○○○○○○○	STONE WALL
-----	WALL
~~~~~	WOOD LINE
~~~~~	BRUSH LINE
~~~~~	HEDGE
~~~~~	BODY OF WATER EDGE
~~~~~	LEDGE EXPOSED

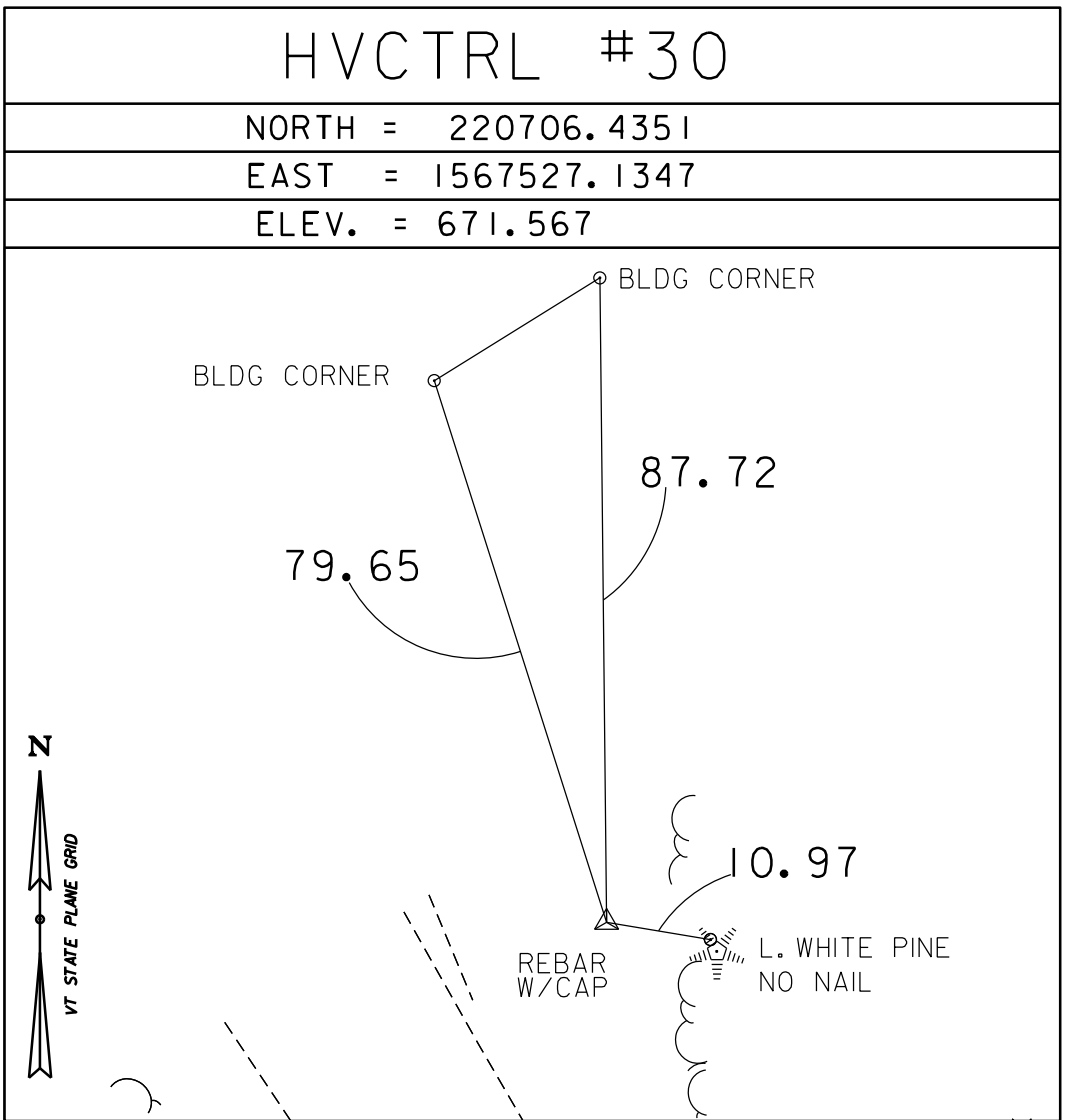
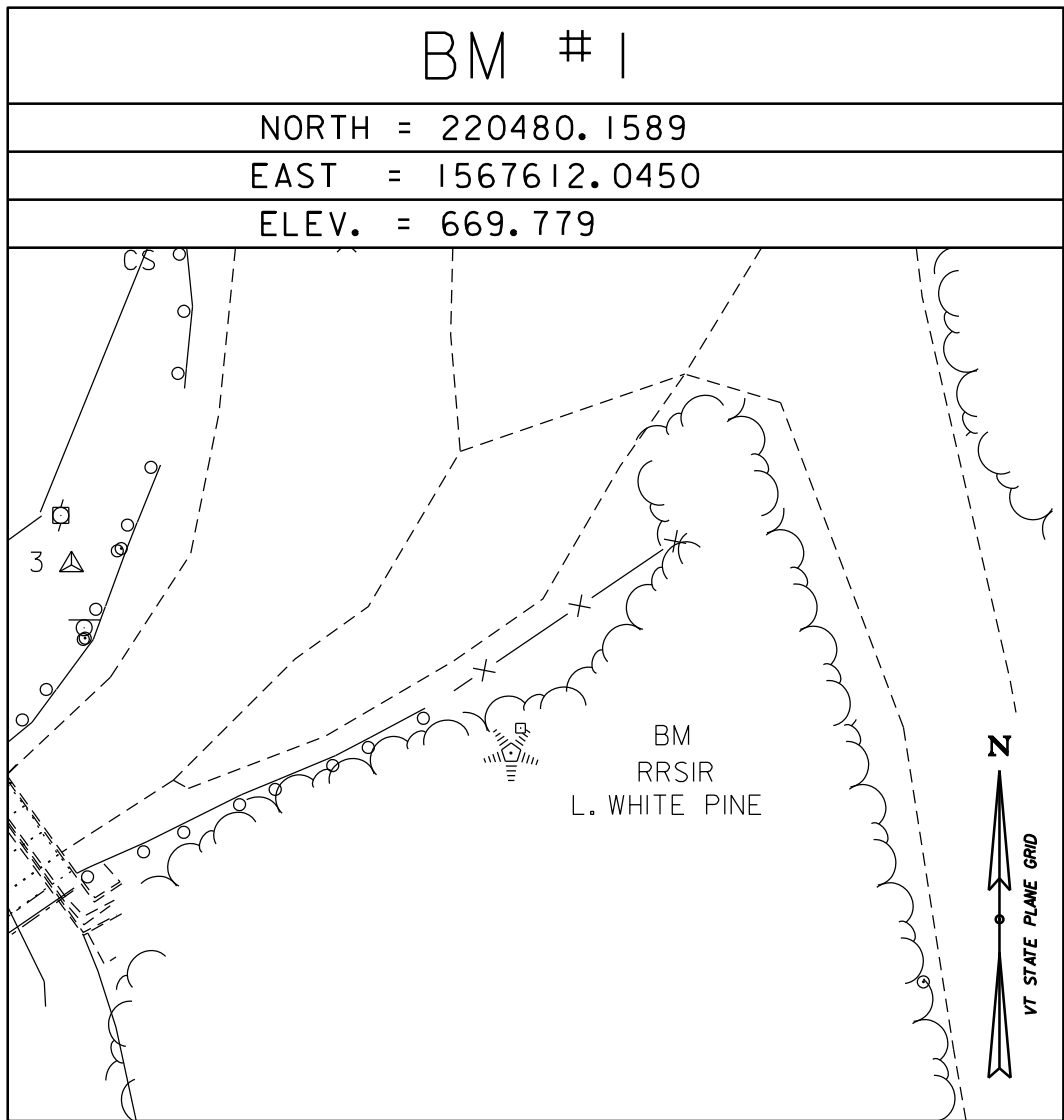
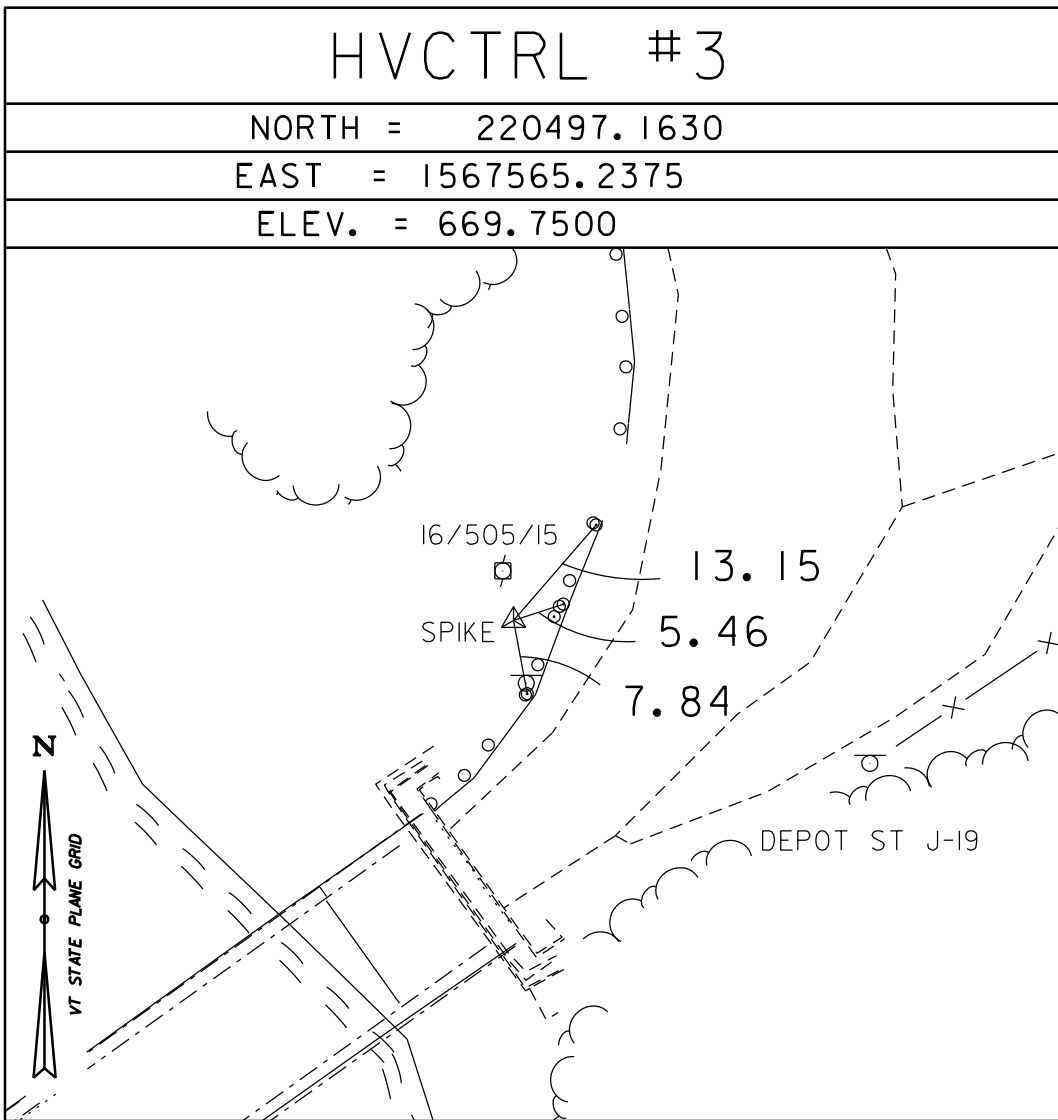
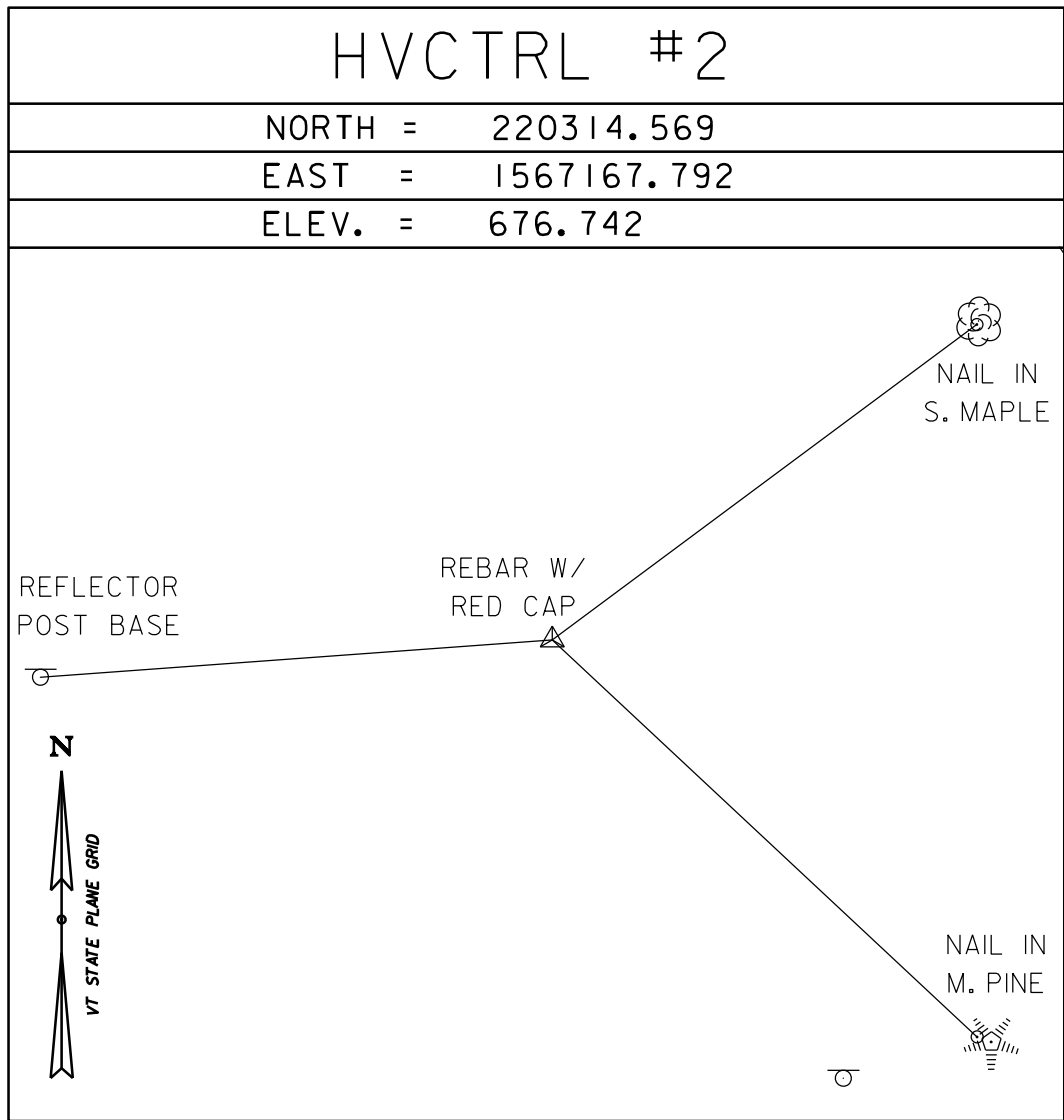
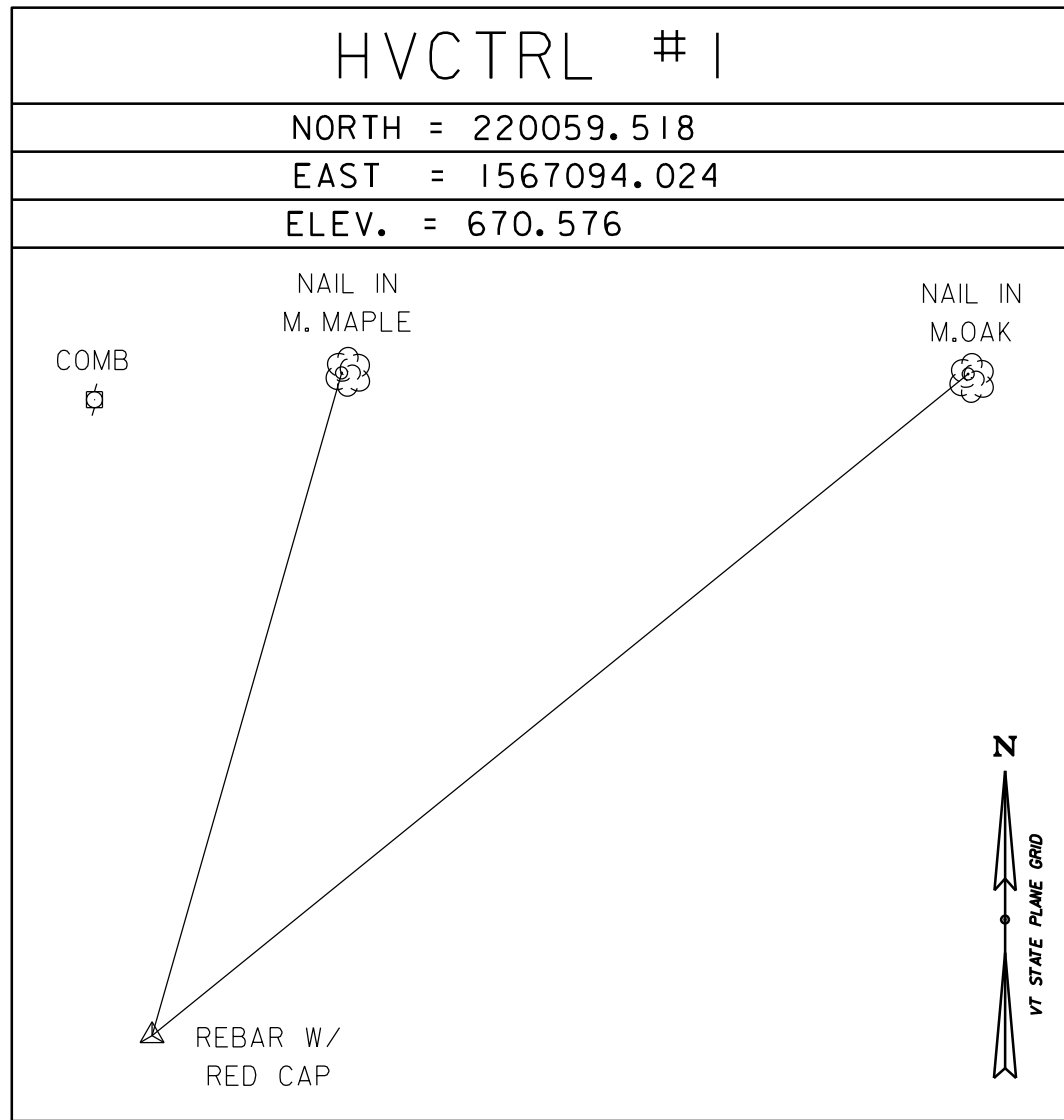
PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226leg.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: A.SPIELER	CHECKED BY: K.HAMPE
CONVENTIONAL SYMBOLOLOGY LEGEND SHEET	SHEET 5 OF 35



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

SECONDARY CONTROL

NORTH =	
EAST =	
ELEV. =	

NORTH =	
EAST =	
ELEV. =	

NORTH =	
EAST =	
ELEV. =	

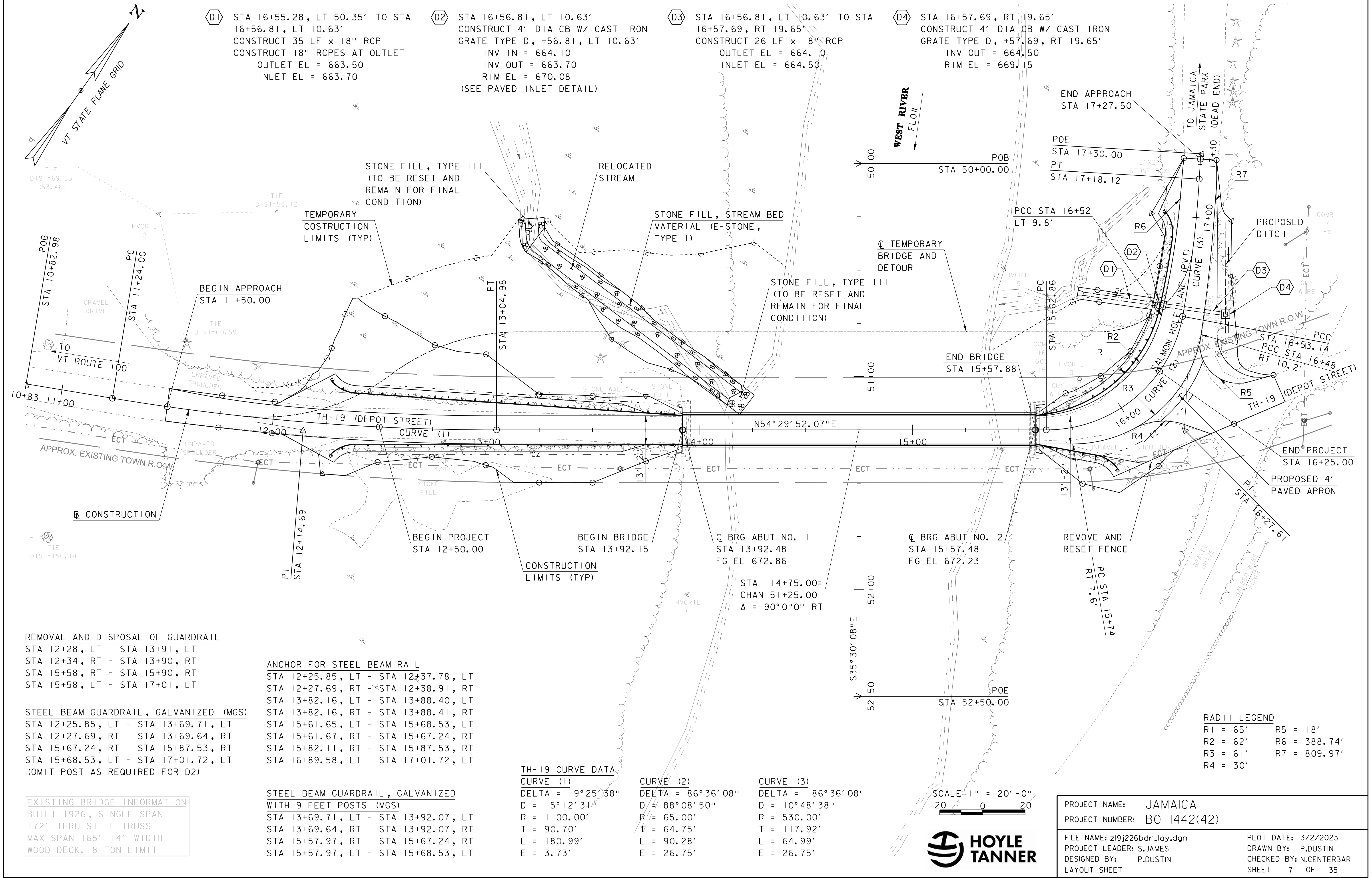
NORTH =	
EAST =	
ELEV. =	

NORTH =	
EAST =	
ELEV. =	

DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD83 (2011)
ADJUSTMENT	



PROJECT NAME:	JAMAICA
PROJECT NUMBER:	BO 1442(42)
FILE NAME:	z19j226+1.dgn
PROJECT LEADER:	S.JAMES
DESIGNED BY:	VTRANS
TIE SHEET	
PLOT DATE:	3/2/2023
DRAWN BY:	J.WANTUCH
CHECKED BY:	G.HITCHCOCK
SHEET	6 OF 35

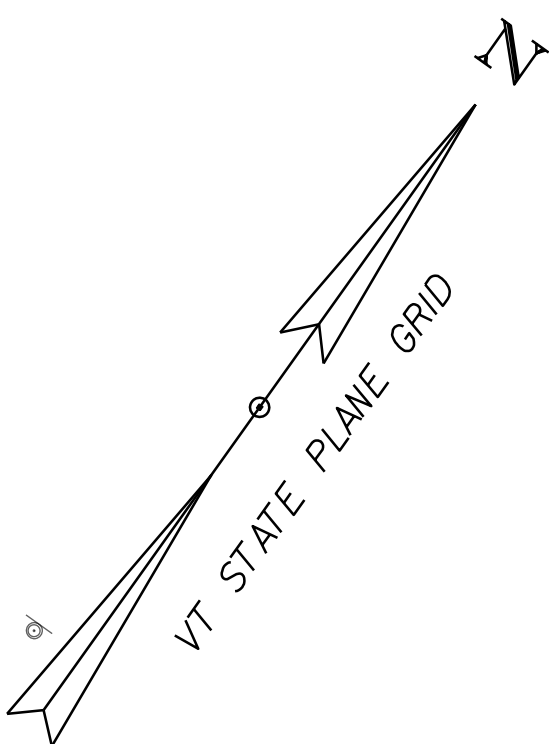


D1 STA 16+55.28, LT 50.35' TO STA 16+56.81, LT 10.63'  
CONSTRUCT 35 LF x 18" RCP  
CONSTRUCT 18" RCPES AT OUTLET  
OUTLET EL = 663.50  
INLET EL = 663.70

D2 STA 16+56.81, LT 10.63' TO STA 16+57.69, RT 19.65'  
CONSTRUCT 4' DIA CB W/ CAST IRON GRATE TYPE D, +56.81, LT 10.63'  
INV IN = 664.10  
INV OUT = 663.70  
RIM EL = 670.08  
(SEE PAVED INLET DETAIL)

D3 STA 16+56.81, LT 10.63' TO STA 16+57.69, RT 19.65'  
CONSTRUCT 26 LF x 18" RCP  
OUTLET EL = 664.10  
INLET EL = 664.50

D4 STA 16+57.69, RT 19.65' TO STA 16+58.11, LT 10.63'  
CONSTRUCT 4' DIA CB W/ CAST IRON GRATE TYPE D, +57.69, RT 19.65'  
INV OUT = 664.50  
RIM EL = 669.15



RADIUS LEGEND	
R1 = 65'	R5 = 18'
R2 = 62'	R6 = 388.74'
R3 = 61'	R7 = 809.97'
R4 = 30'	

REMOVAL AND DISPOSAL OF GUARDRAIL  
STA 12+28, LT - STA 13+91, LT  
STA 12+34, RT - STA 13+90, RT  
STA 15+58, RT - STA 15+90, RT  
STA 15+58, LT - STA 17+01, LT

STEEL BEAM GUARDRAIL, GALVANIZED (MGS)  
STA 12+25.85, LT - STA 13+69.71, LT  
STA 12+27.69, RT - STA 13+69.64, RT  
STA 15+67.24, RT - STA 15+87.53, RT  
STA 15+68.53, LT - STA 17+01.72, LT  
(OMIT POST AS REQUIRED FOR D2)

ANCHOR FOR STEEL BEAM RAIL  
STA 12+25.85, LT - STA 12+37.78, LT  
STA 12+27.69, RT - STA 12+38.91, RT  
STA 13+82.16, LT - STA 13+88.40, LT  
STA 13+82.16, RT - STA 13+88.41, RT  
STA 15+61.65, LT - STA 15+68.53, LT  
STA 15+61.67, RT - STA 15+67.24, RT  
STA 15+82.11, RT - STA 15+87.53, RT  
STA 16+89.58, LT - STA 17+01.72, LT

STEEL BEAM GUARDRAIL, GALVANIZED WITH 9 FEET POSTS (MGS)  
STA 13+69.71, LT - STA 13+92.07, LT  
STA 13+69.64, RT - STA 13+92.07, RT  
STA 15+57.97, RT - STA 15+67.24, RT  
STA 15+57.97, LT - STA 15+68.53, LT

TH-19 CURVE DATA  
CURVE (1)  
DELTA = 9°25'38"  
D = 5°12'31"  
R = 1100.00'  
T = 90.70'  
L = 180.99'  
E = 3.73'

CURVE (2)  
DELTA = 86°36'08"  
D = 88°08'50"  
R = 65.00'  
T = 64.75'  
L = 90.28'  
E = 26.75'

CURVE (3)  
DELTA = 86°36'08"  
D = 10°48'38"  
R = 530.00'  
T = 117.92'  
L = 64.99'  
E = 26.75'

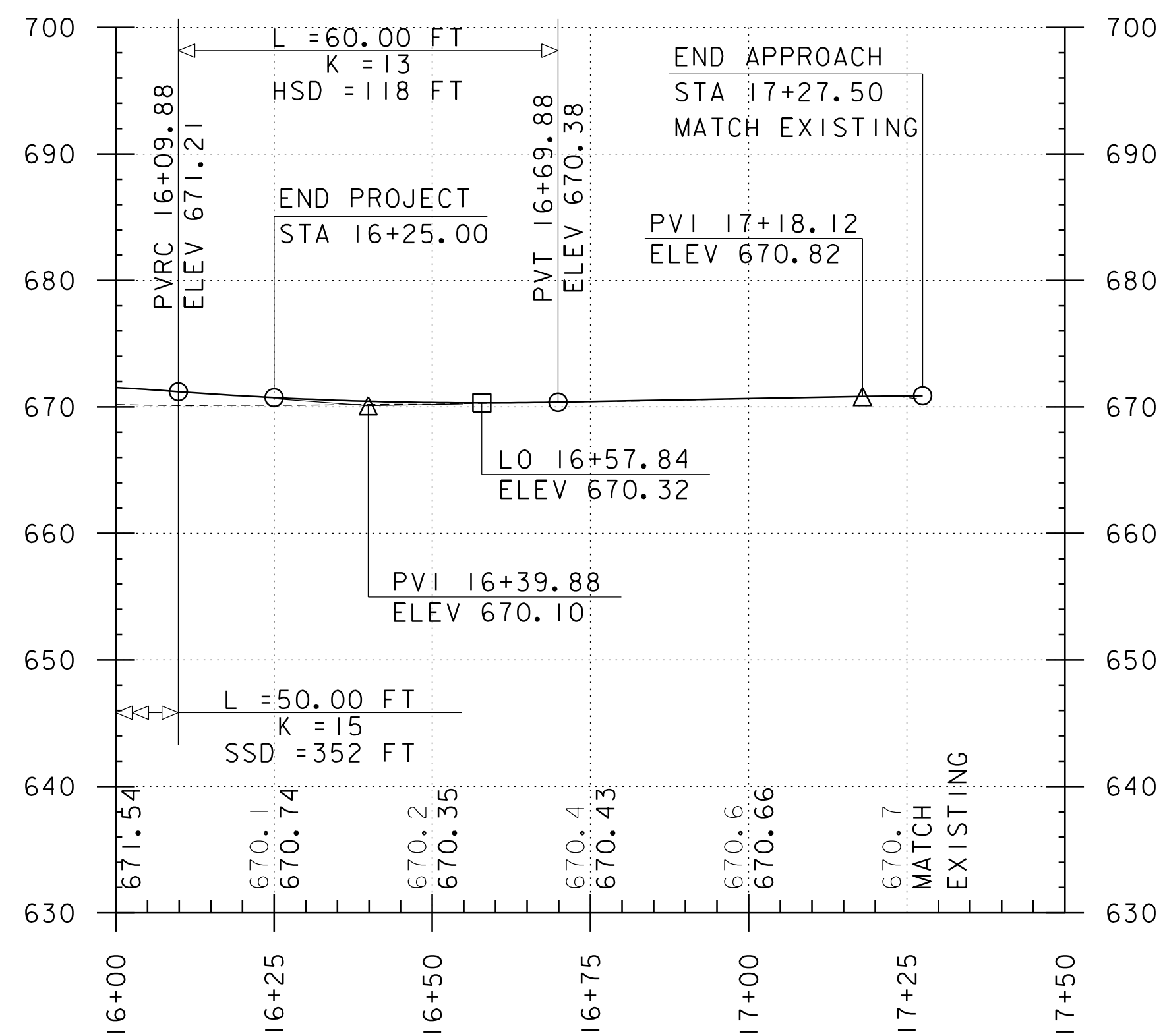
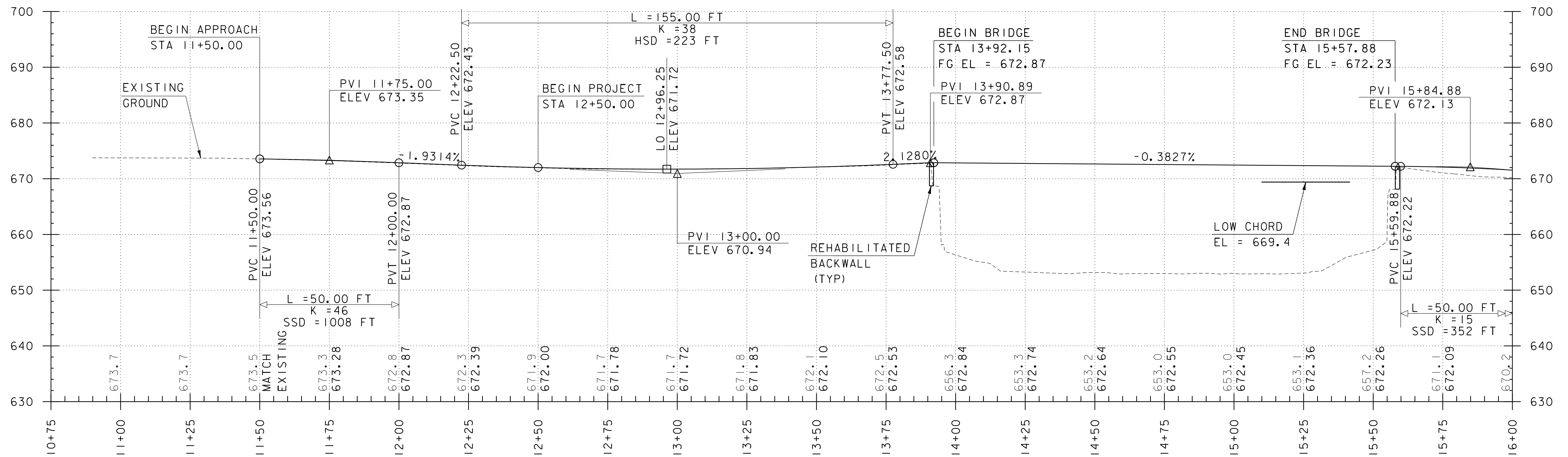
SCALE 1" = 20' - 0"  
20 0 20



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

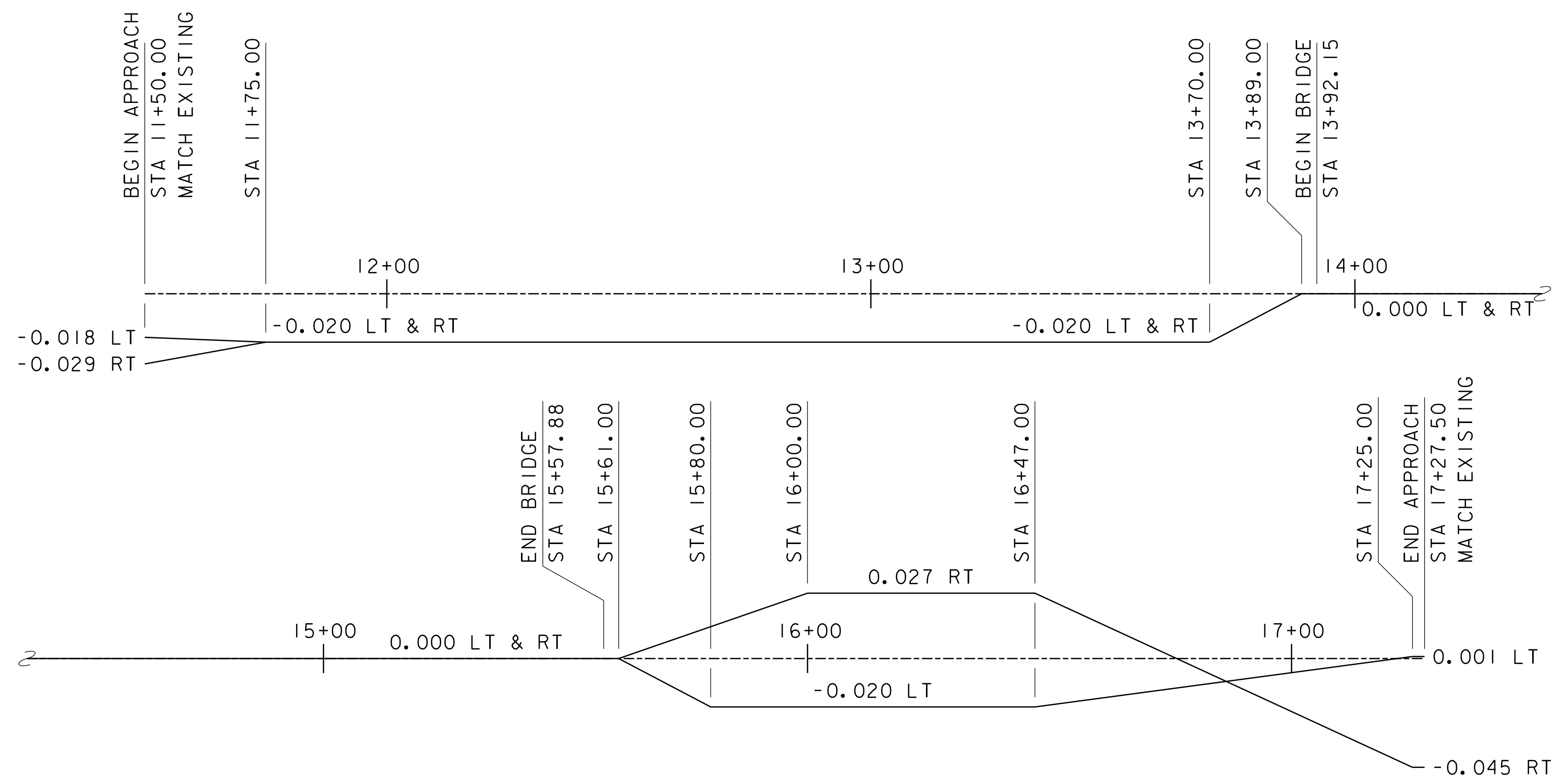
FILE NAME: z19j226bdr_lay.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
LAYOUT SHEET

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: N.CENTERBAR  
SHEET 7 OF 35



### TH-19 PROFILE

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



### TH-19 BANKING DIAGRAM

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

GRADES SHOWN TO THE NEAREST  
TENTH ARE EXISTING GROUND

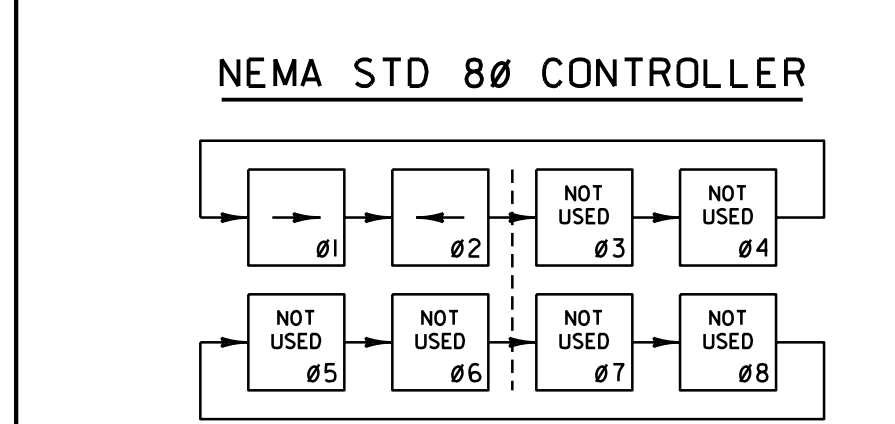
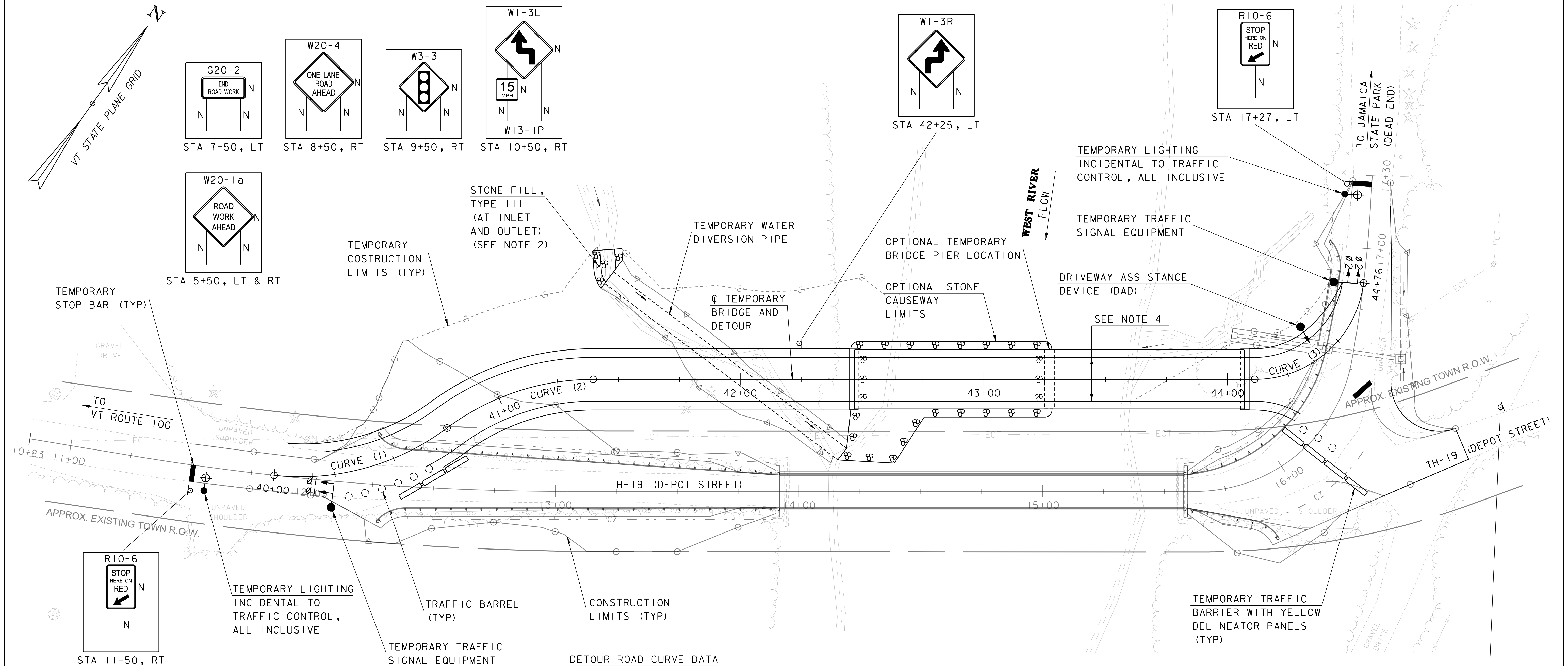
GRADES SHOWN TO THE NEAREST  
HUNDREDTH ARE FINISH GRADE



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

FILE NAME: z19j226pro.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
PROFILE SHEET

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: N.CENTERBAR  
SHEET 8 OF 35



**SIGNAL TIMING NOTES**

1. TEMPORARY SIGNAL SHALL PROVIDE MINIMUM RECALL FOR 01 AND 02 AS THE DAD DOES NOT PROVIDE DETECTION.
2. TEMPORARY SIGNAL SHALL PROVIDE BICYCLE DETECTION FOR 01 AND 02.
3. 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.

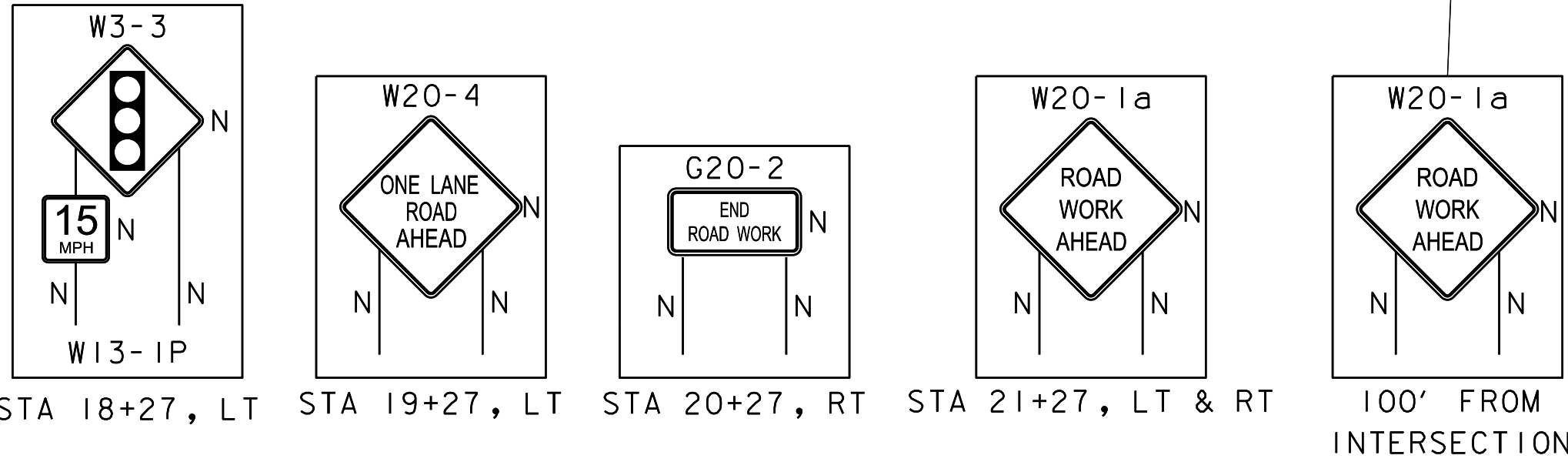
**NOTES**

1. ALL COSTS ASSOCIATED WITH TEMPORARY CONSTRUCTION ACCESS AND OPTIONAL STONE CAUSEWAY SHALL BE INCIDENTAL TO THE TEMPORARY BRIDGE.
2. TEMPORARY WATER DIVERSION PIPE, AND STONE FILL TYPE III INLET AND OUTLET PROTECTION IS INCIDENTAL TO THE TEMPORARY BRIDGE.
3. TEMPORARY BRIDGE DESIGN LIVE LOAD SHALL BE HL-93.
4. TEMPORARY BRIDGE SHALL HAVE A MINIMUM WIDTH OF 18'-0" MEASURED FACE OF RAIL TO FACE OF RAIL.
5. GEOTEXTILE FOR ROAD BED SEPARATOR SHALL BE INSTALLED OVER ALL WETLAND AREAS IMPACTED BY THE TEMPORARY BRIDGE AND APPROACHES AND IS INCIDENTAL TO THE TEMPORARY BRIDGE.

**DETOUR ROAD CURVE DATA**

CURVE (1)	CURVE (2)	CURVE (3)
DELTA = 43°08'55"	DELTA = 36°51'55"	DELTA = 83°06'58"
D = 57°17'45"	D = 57°17'45"	D = 127°19'26"
R = 100.00'	R = 100.00'	R = 45.00'
T = 39.54'	T = 33.33'	T = 39.89'
L = 75.31'	L = 64.34'	L = 65.28'
E = 7.53'	E = 5.41'	E = 15.14'

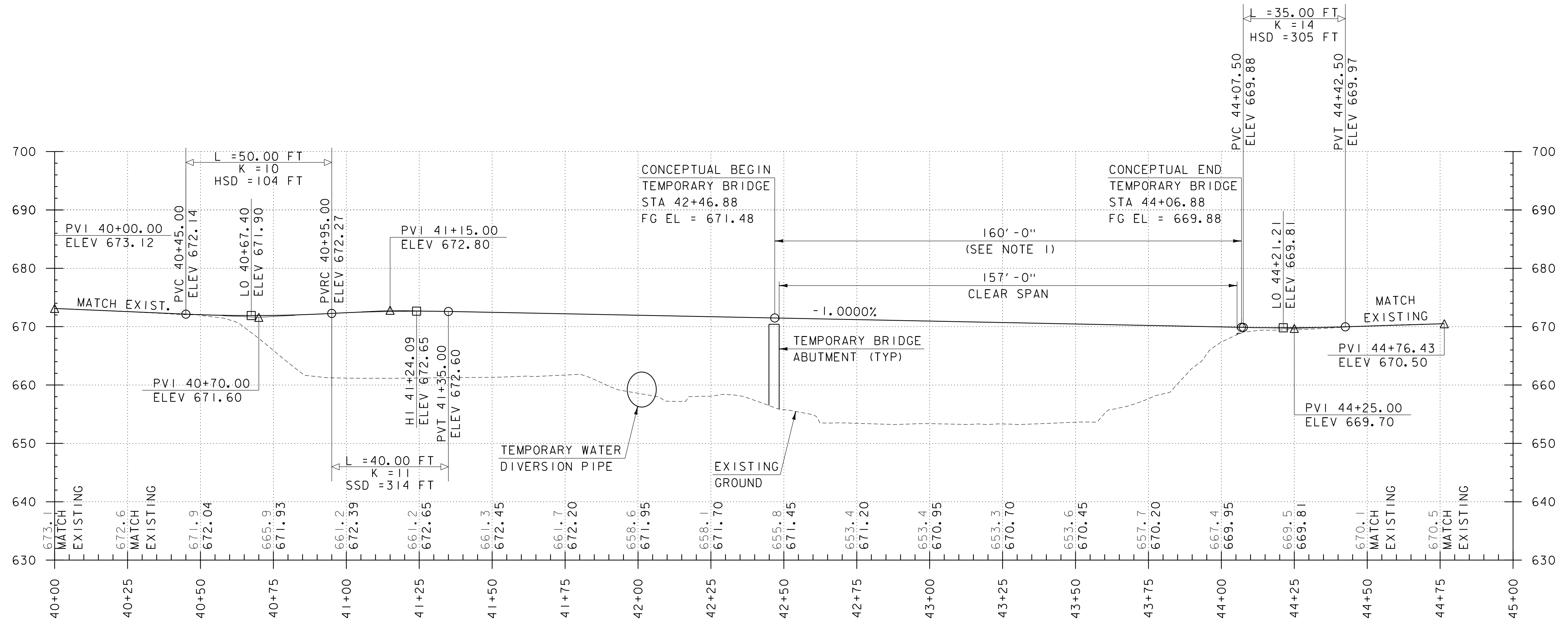
SIGNAL PHASING		
	01	02
TIMING IN SECONDS		
INITIAL INTERVAL	10	10
VEHICLE EXTENSION	3	3
MAX. 1	16.5	16.5
YELLOW	3	3
ALL RED	25.5	25.5
RECALL	MIN	MIN
DETECTOR MEMORY	L	L
FLASH	RED	RED
MAX 1: ALL TIME PERIODS		



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



PROJECT NAME: JAMAICA	PLOT DATE: 3/2/2023
PROJECT NUMBER: BO 1442(42)	DRAWN BY: P.DUSTIN
FILE NAME: z19j226bdr_tcp.dgn	CHECKED BY: N.CENTERBAR
PROJECT LEADER: S.JAMES	SHEET 9 OF 35
DESIGNED BY: P.DUSTIN	
TRAFFIC CONTROL SHEET	



### TEMPORARY DETOUR PROFILE

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

### NOTES

1. CONCEPTUAL BEGIN AND END TEMPORARY BRIDGE STATIONS BASED ON A 160 FOOT PANELIZED BRIDGE LENGTH.

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND

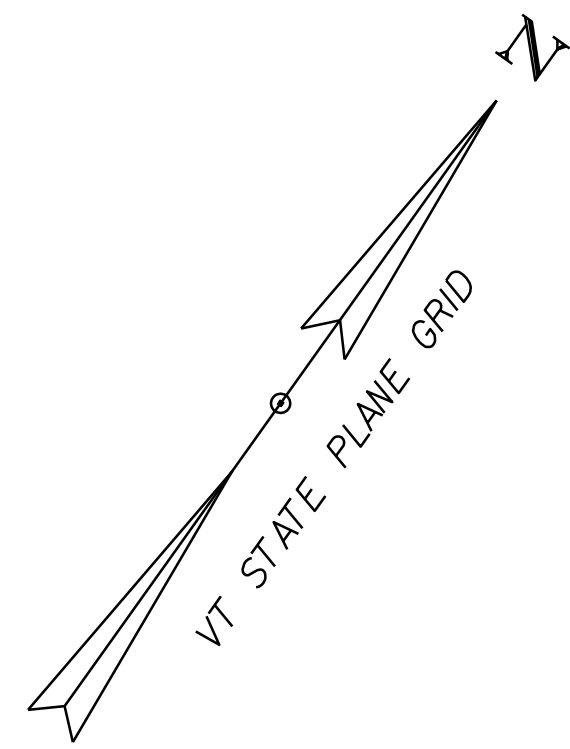
GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE



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

FILE NAME: z19j226pro.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
TEMPORARY DETOUR PROFILE SHEET

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: N.CENTERBAR  
SHEET 10 OF 35



TOWN OF JAMAICA

WEST RIVER  
FLOW

STATE OF  
VERMONT

OVERHEAD UTILITIES TO BE  
RELOCATED IN ADVANCE OF THE  
PROJECT (BY OTHERS)

REMOVE  
POLE AND  
GUY

REMOVE  
WIRES

NEW  
PERMANENT  
ANCHORS  
VERMONT  
AGENCY OF  
NATURAL RESOURCES

TO JAMAICA  
STATE PARK  
(DEAD END)

APPROX. EXISTING TOWN R.O.W.

TH-19 (DEPOT STREET)

NEW PERMANENT  
POLE W/ ANCHORS

TIE  
DIST = 83.34'  
(BENCHMARK)

ADAMS POND VT LLC 2

REMOVE  
POLE

NEW PERMANENT  
POLE W/ ANCHOR

TIE  
DIST = 41.22'  
(END OF GUARD RAIL)

TIE  
DIST = 87.57'

TIE  
DIST = 42.34'

NEW  
PERMANENT  
POLE  
TIE  
DIST = 29.65'

TIE  
DIST = 26.18'

NEW PERMANENT  
POLE W/ ANCHOR  
TIE  
DIST = 15.19'

TIE  
DIST = 50.45'

STATE OF  
VERMONT

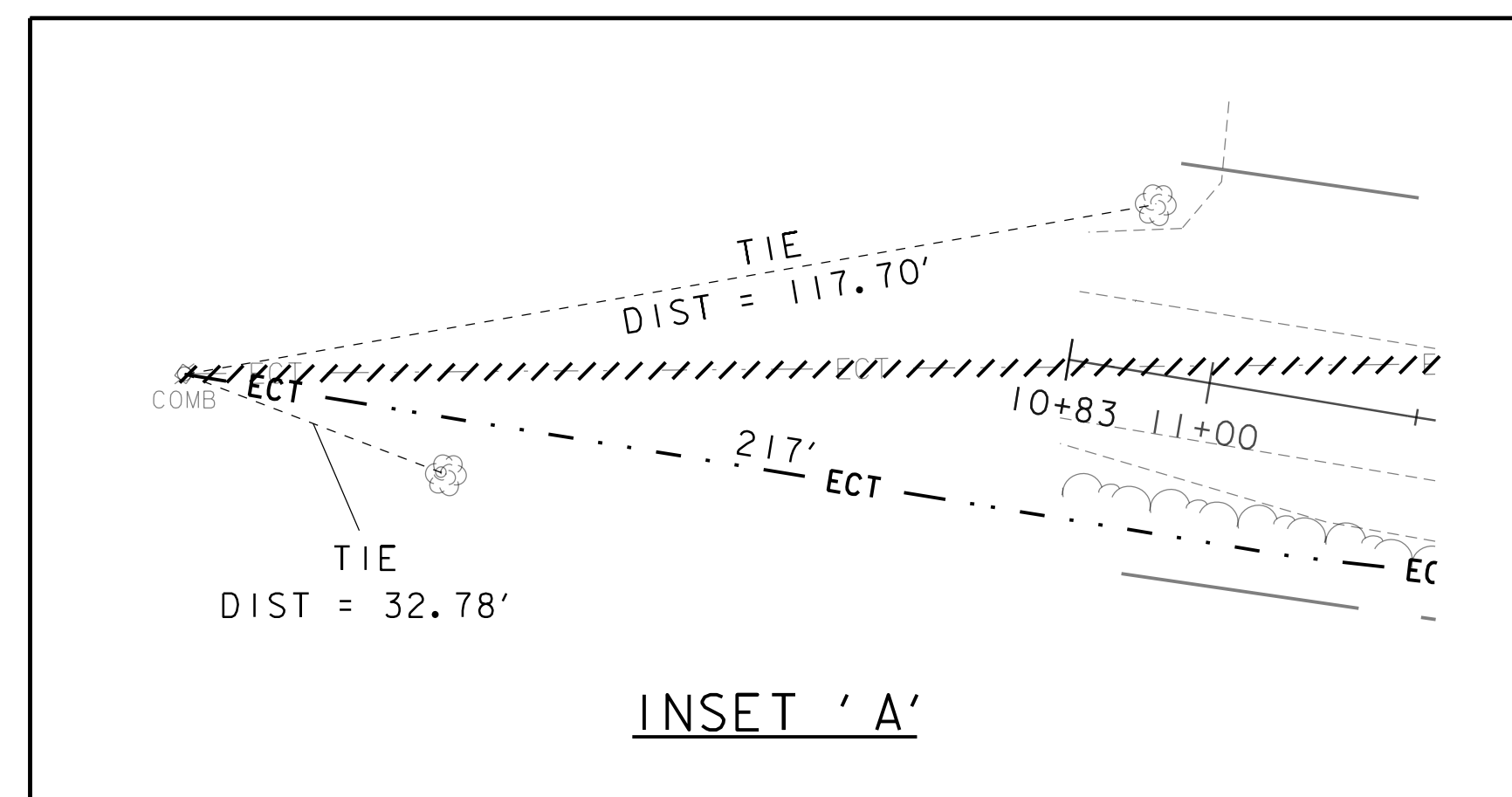
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20 0 20

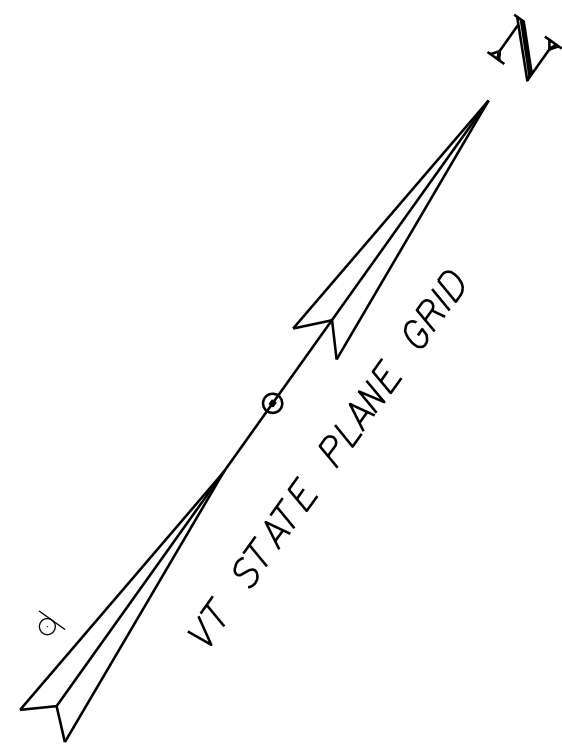


PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

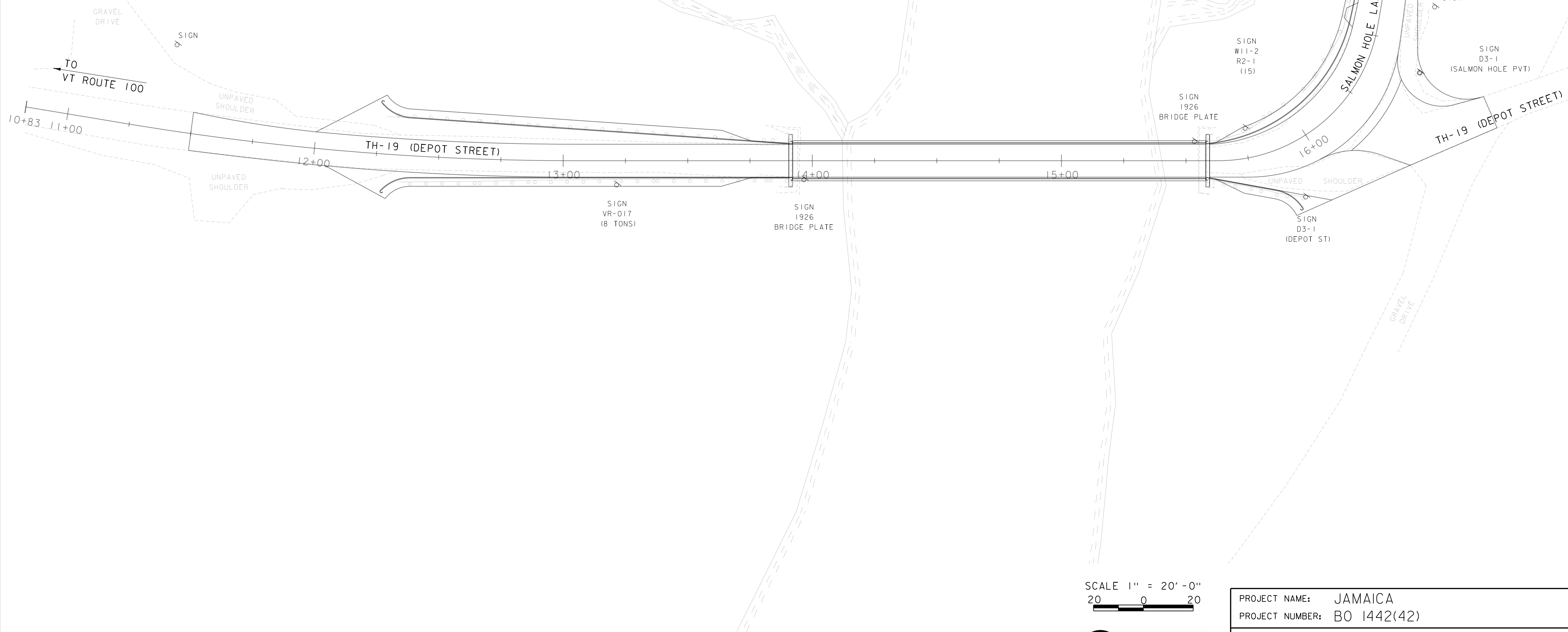
FILE NAME: z19j226bdr_util.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
UTILITY LAYOUT

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: N.CENTERBAR  
SHEET 11 OF 35





WEST RIVER  
FLOW



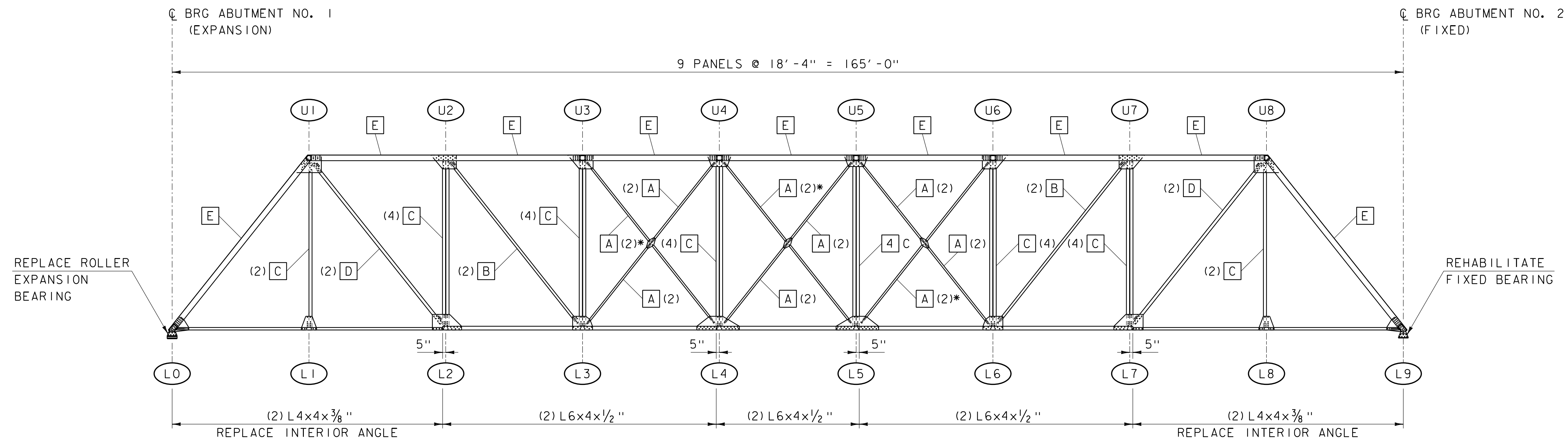
SCALE 1" = 20'-0"  
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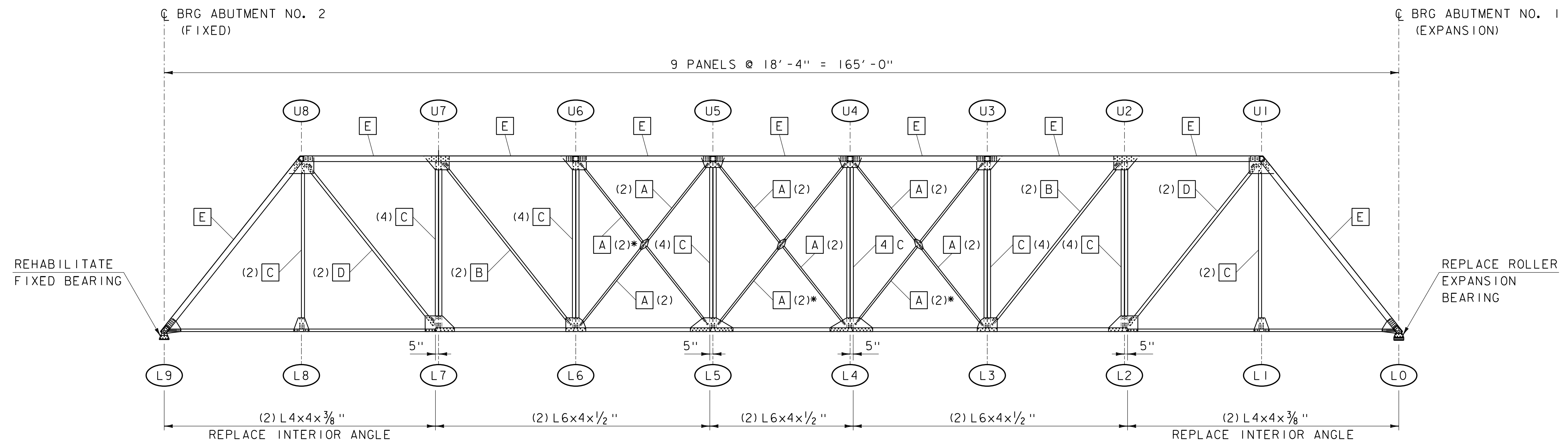
PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226bdr.tsl.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
TRAFFIC SIGN AND LINE LAYOUT

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: E.WEINGARTNER  
SHEET 12 OF 35



**NORTH TRUSS ELEVATION**  
(INTERIOR LOOKING NORTH)  
SCALE:  $\frac{1}{8}$ " = 1'-0"



**LEGEND**

- A L3x2 $\frac{1}{2}$ x $\frac{5}{16}$
- B L4x3x $\frac{5}{16}$
- C L5x3x $\frac{5}{16}$
- D L5x3 $\frac{1}{2}$ x $\frac{3}{8}$
- E 1-16 $\frac{1}{4}$ "x $\frac{5}{16}$ " TOP PLATE
- 2-C9x13.4 WITH 2 $\frac{1}{2}$ "x $\frac{5}{16}$ " LACING BARS
- * CONTINUOUS MEMBER

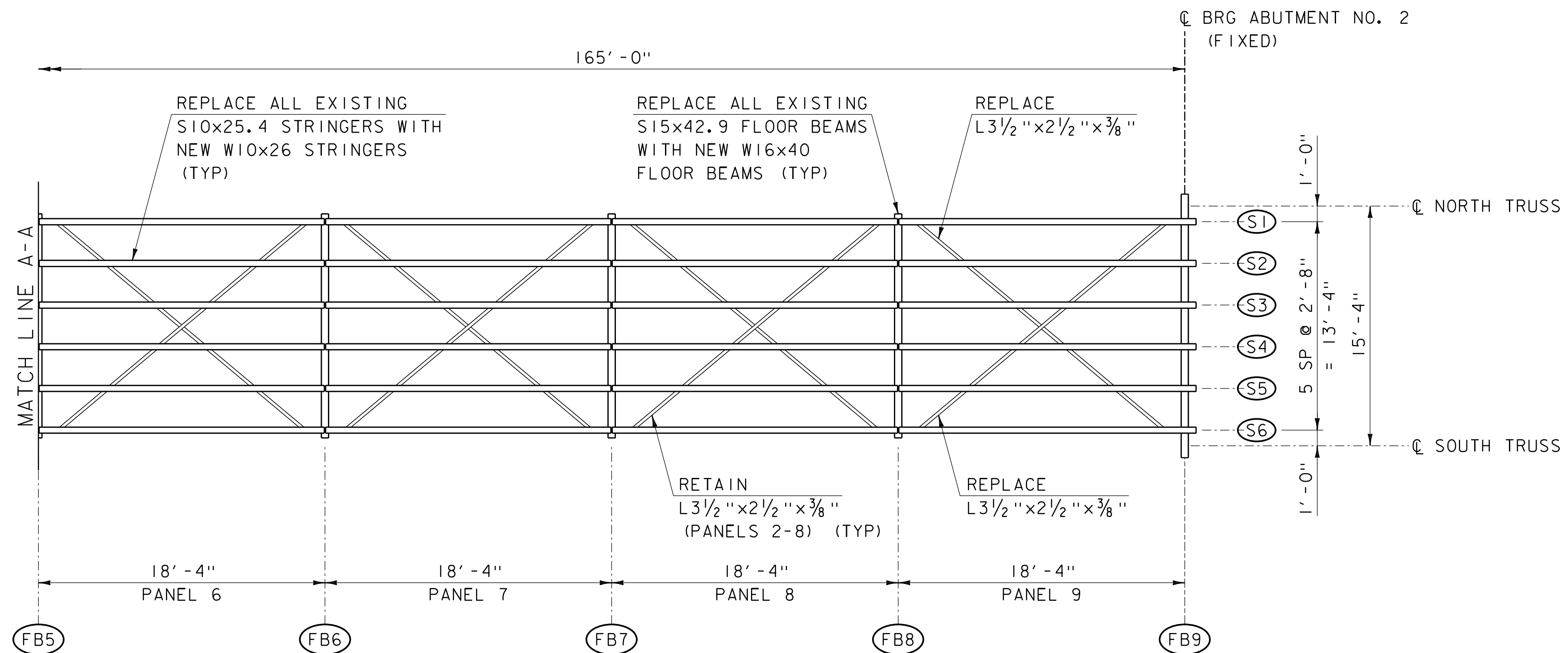
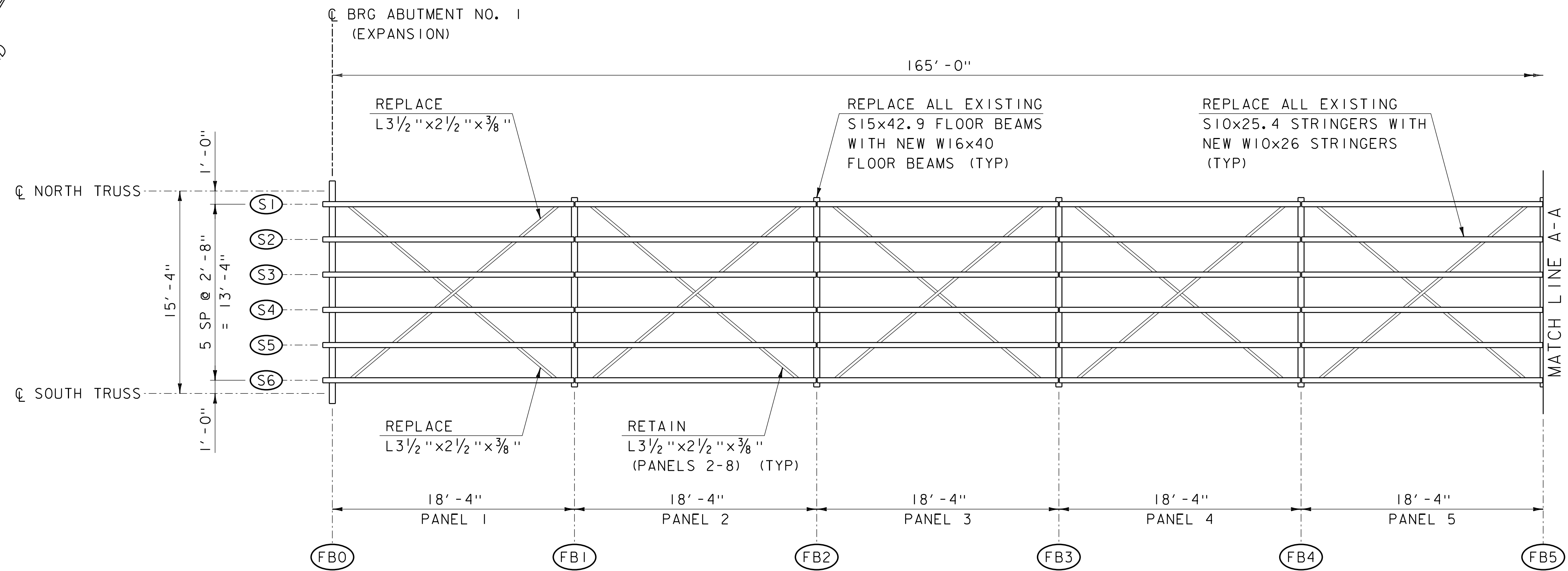
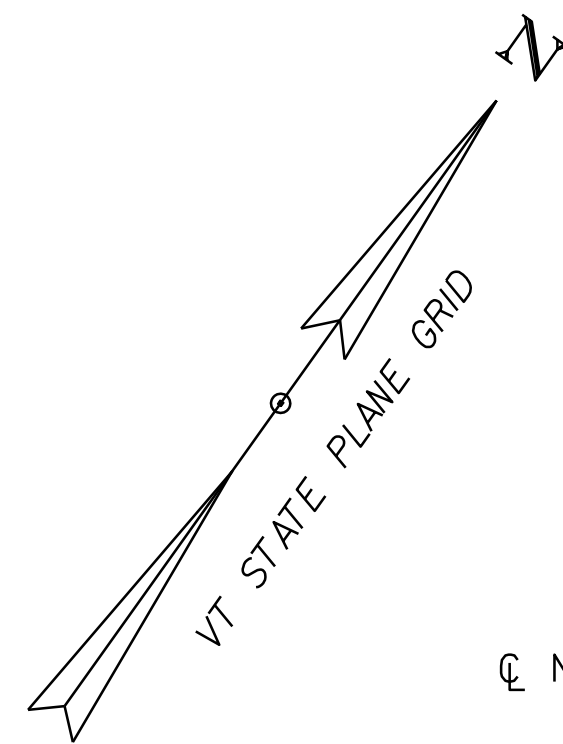
**SOUTH TRUSS ELEVATION**  
(INTERIOR LOOKING SOUTH)  
SCALE:  $\frac{1}{8}$ " = 1'-0"



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

FILE NAME: z19j226sup.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: A.SPIELER  
TRUSS ELEVATIONS

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: K.HAMPE  
SHEET 13 OF 35



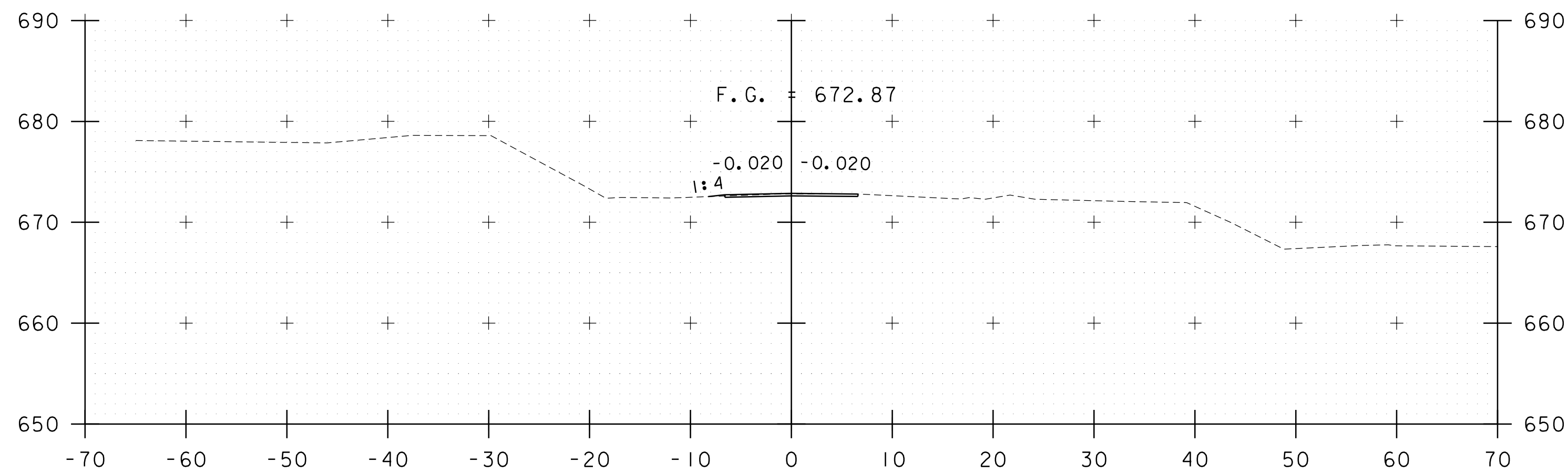
FLOOR FRAMING PLAN  
SCALE:  $\frac{3}{16}" = 1'-0"$



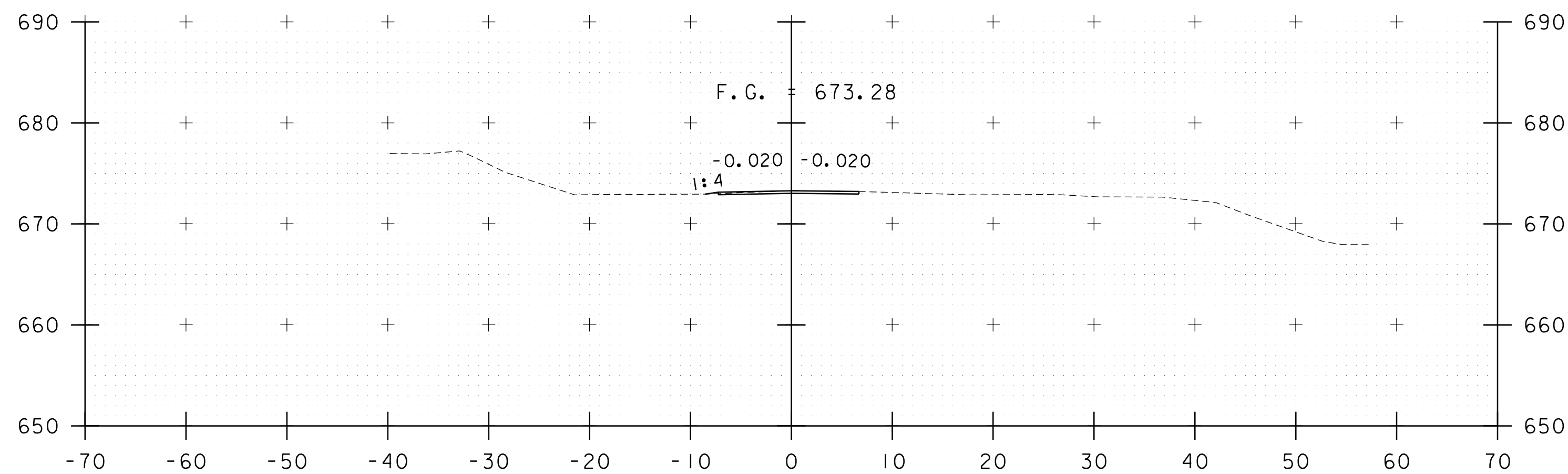
PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226sup.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: A.SPIELER  
LATERAL BRACING AND FLOOR FRAMING

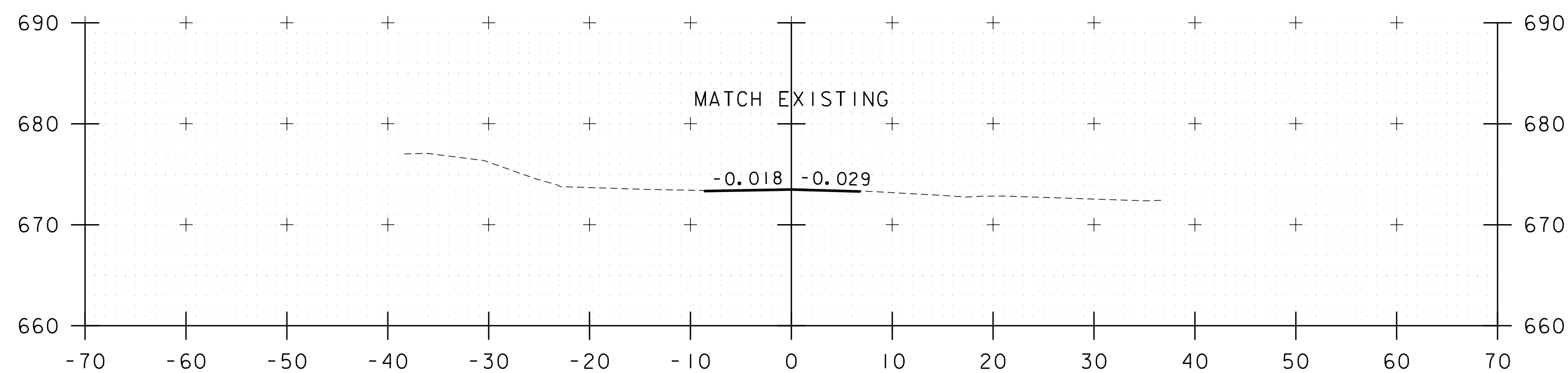
PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: K.HAMPE  
SHEET 14 OF 35



12+00

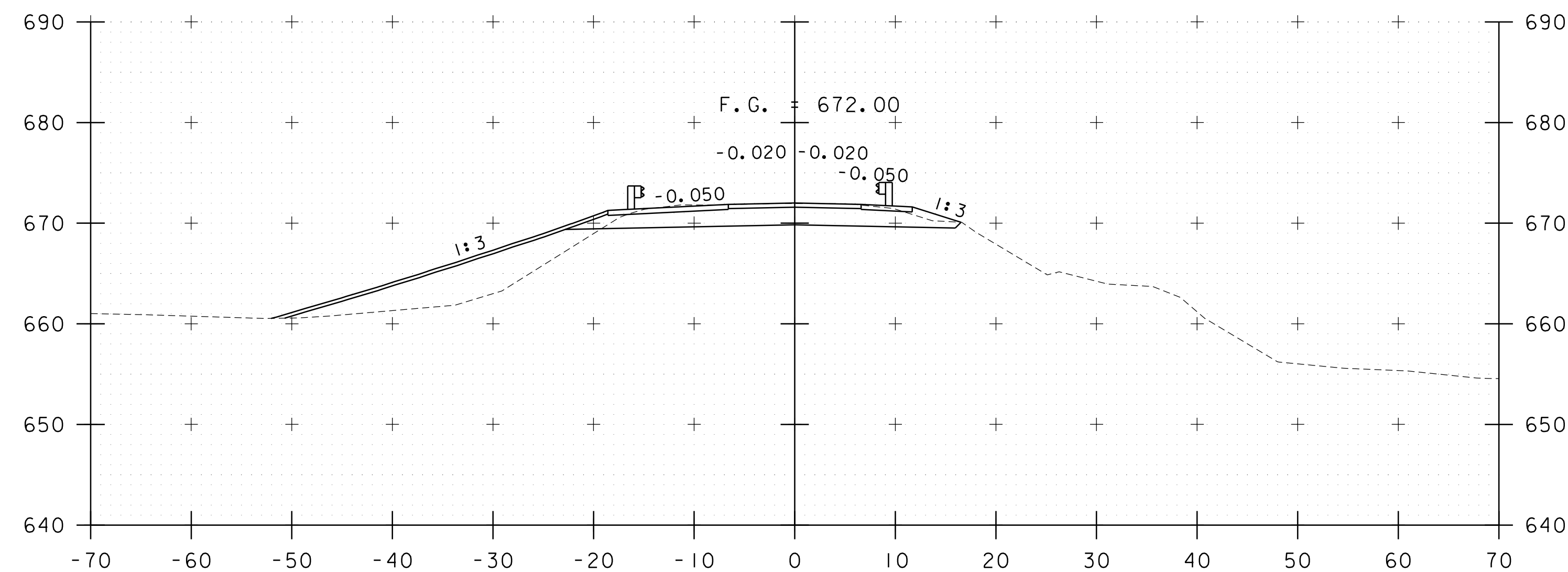


11+75



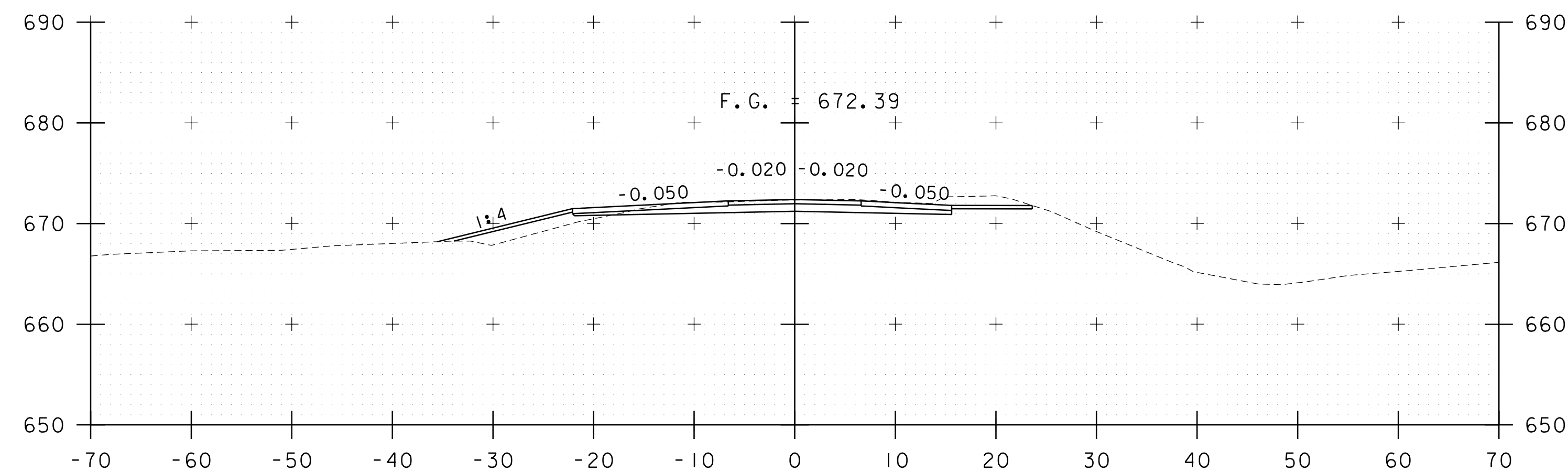
BEGIN APPROACH  
STA 11+50.00  
MATCH EXISTING

11+50



BEGIN PROJECT  
STA 12+50.00

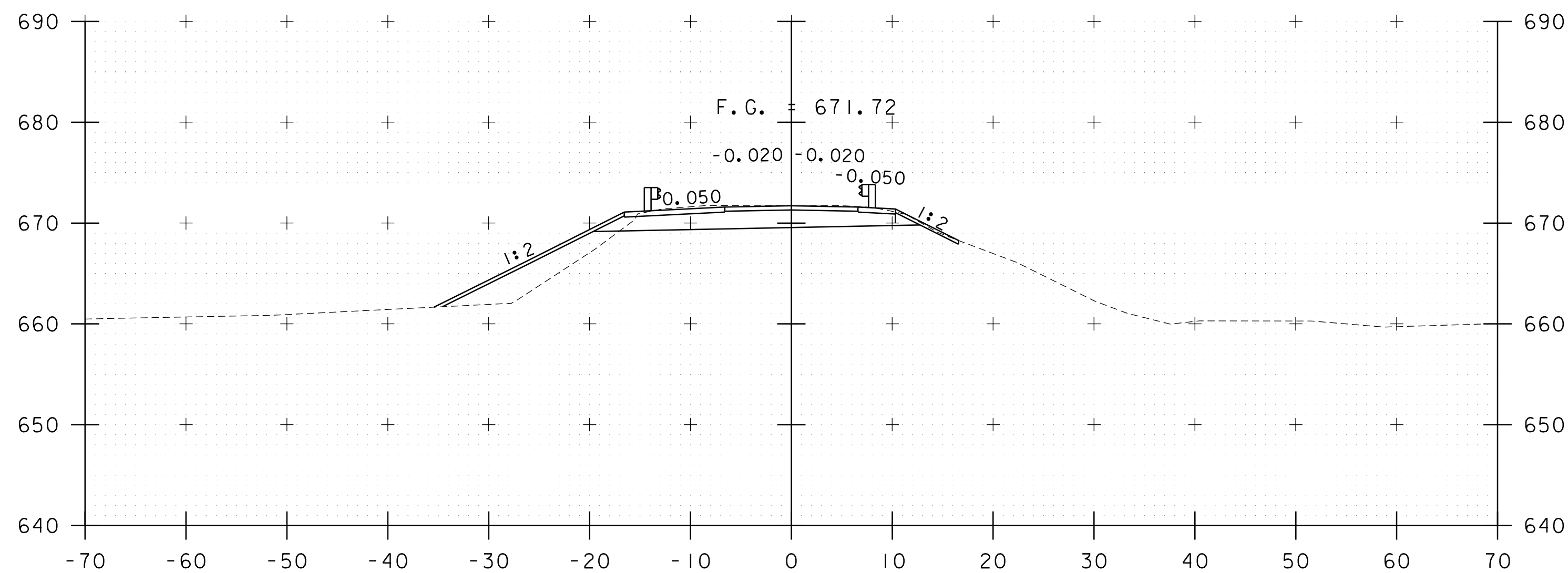
12+50



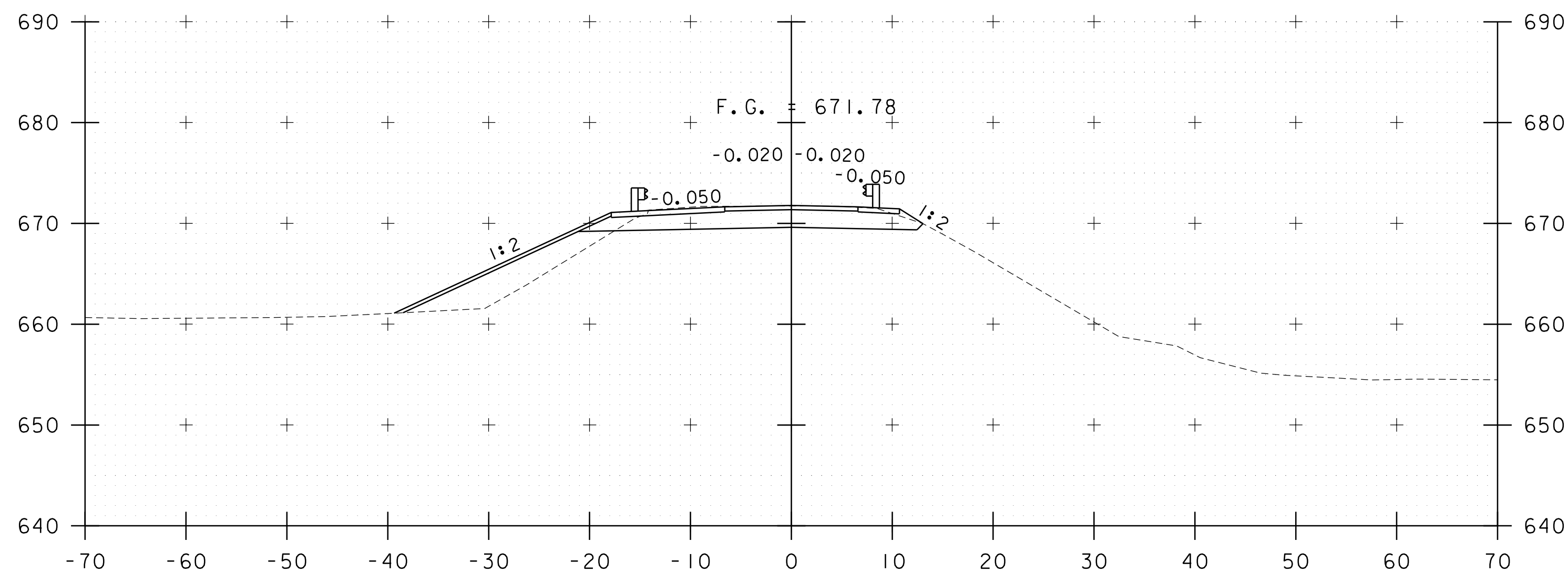
12+25



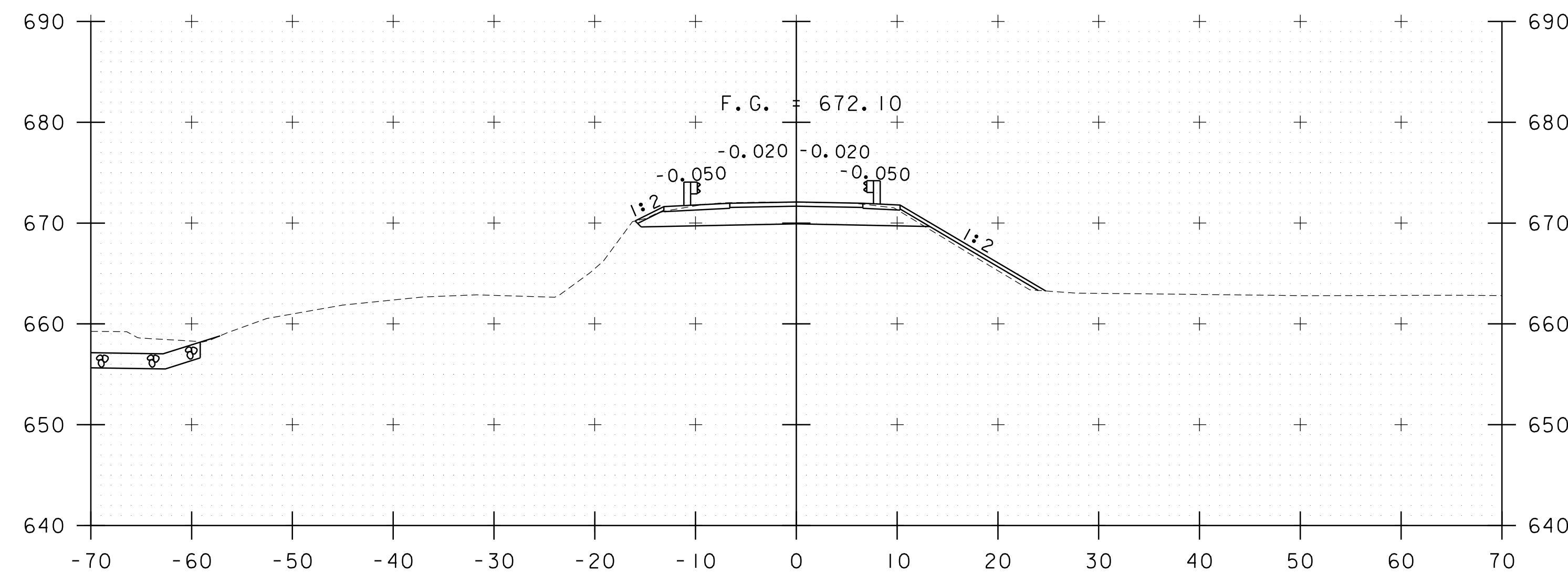
PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xsl.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: N.CENTERBAR
TH-19 CROSS SECTIONS 1	SHEET 15 OF 35



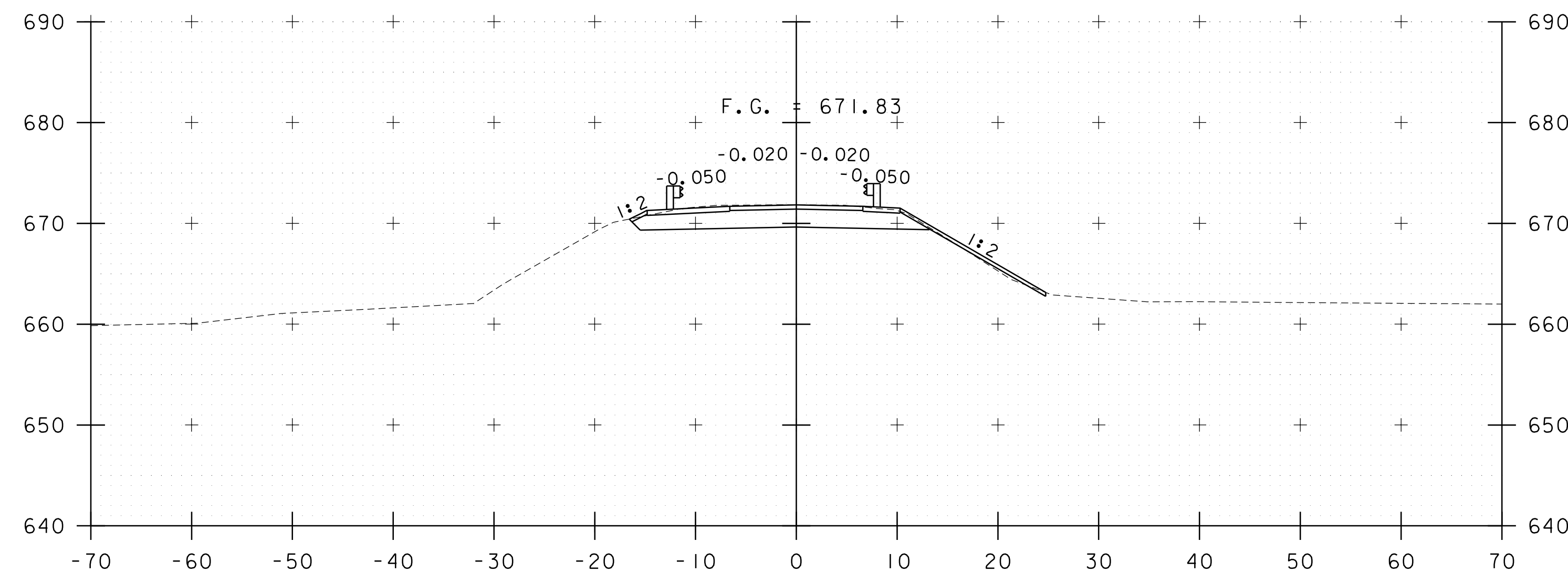
13+00



12+75



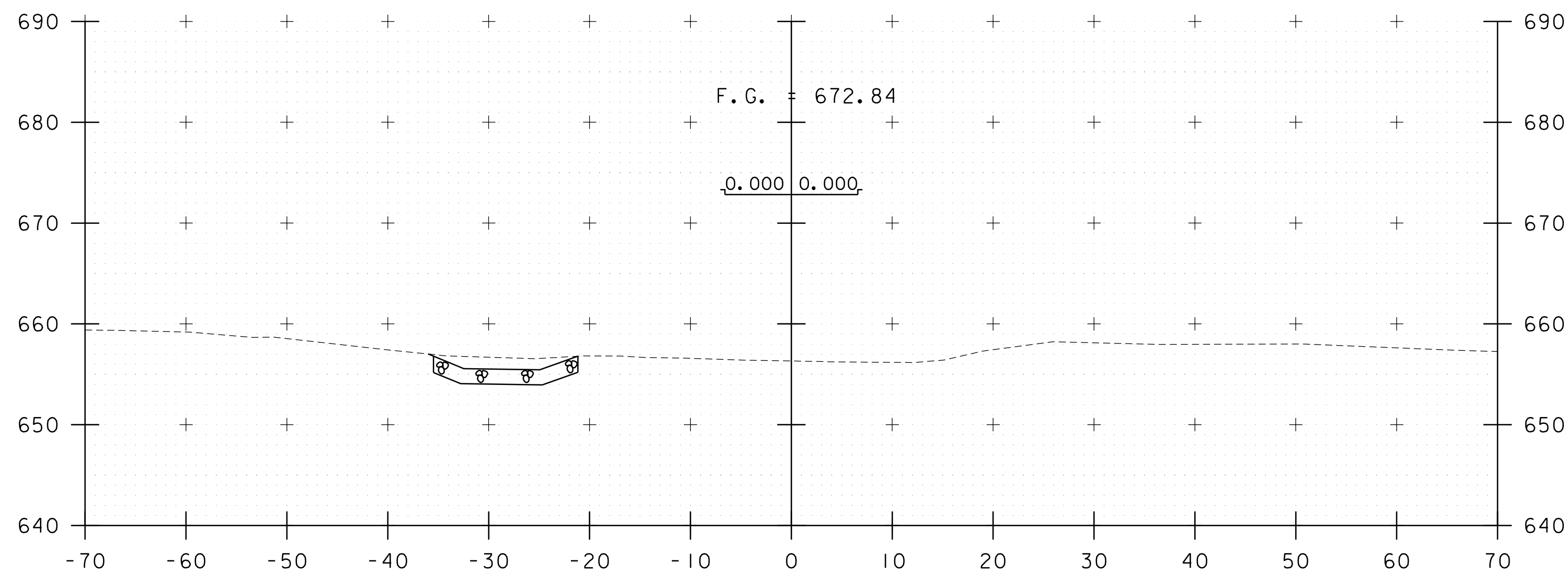
13+50



13+25

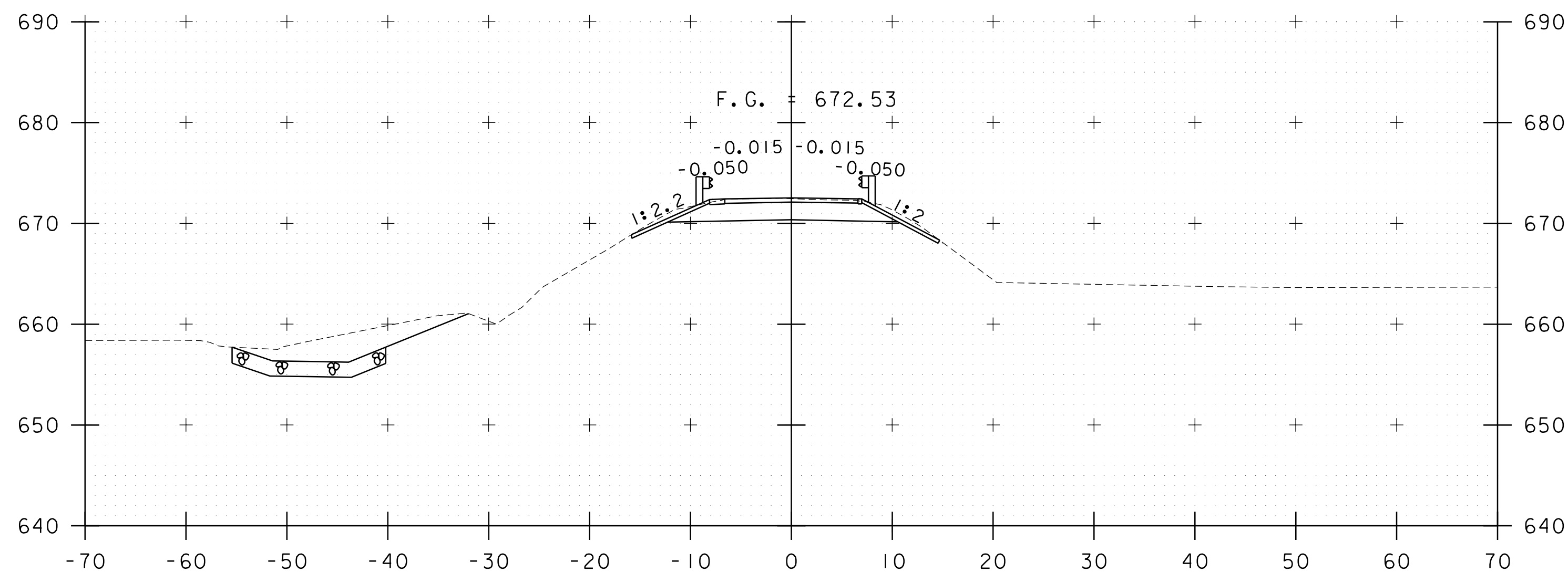


PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xsl.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: N.CENTERBAR
TH-19 CROSS SECTIONS 2	SHEET 16 OF 35

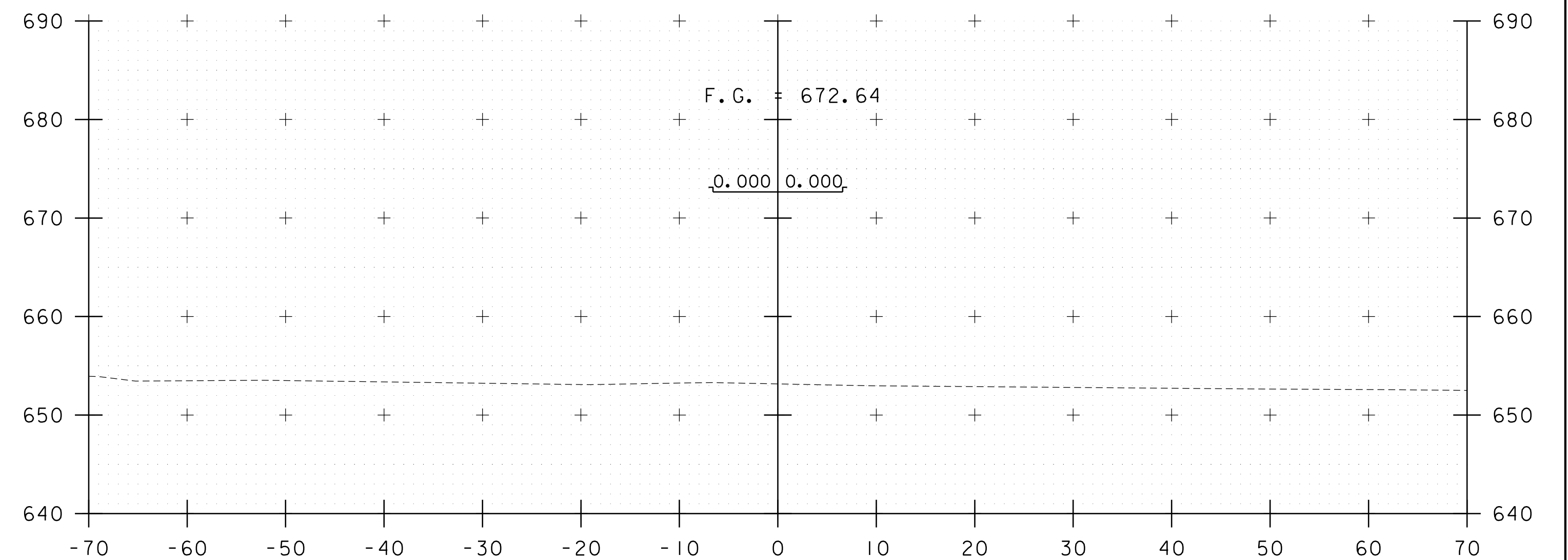


BEGIN BRIDGE  
STA 13+92.15

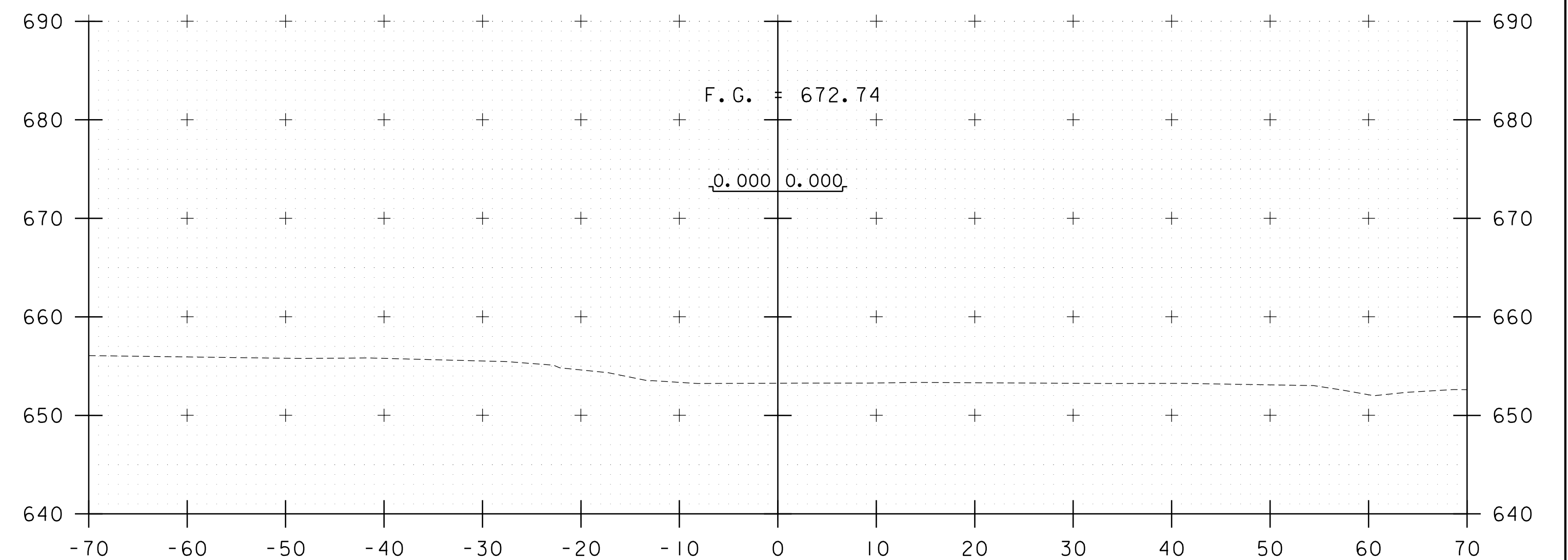
14+00



13+75



14+50

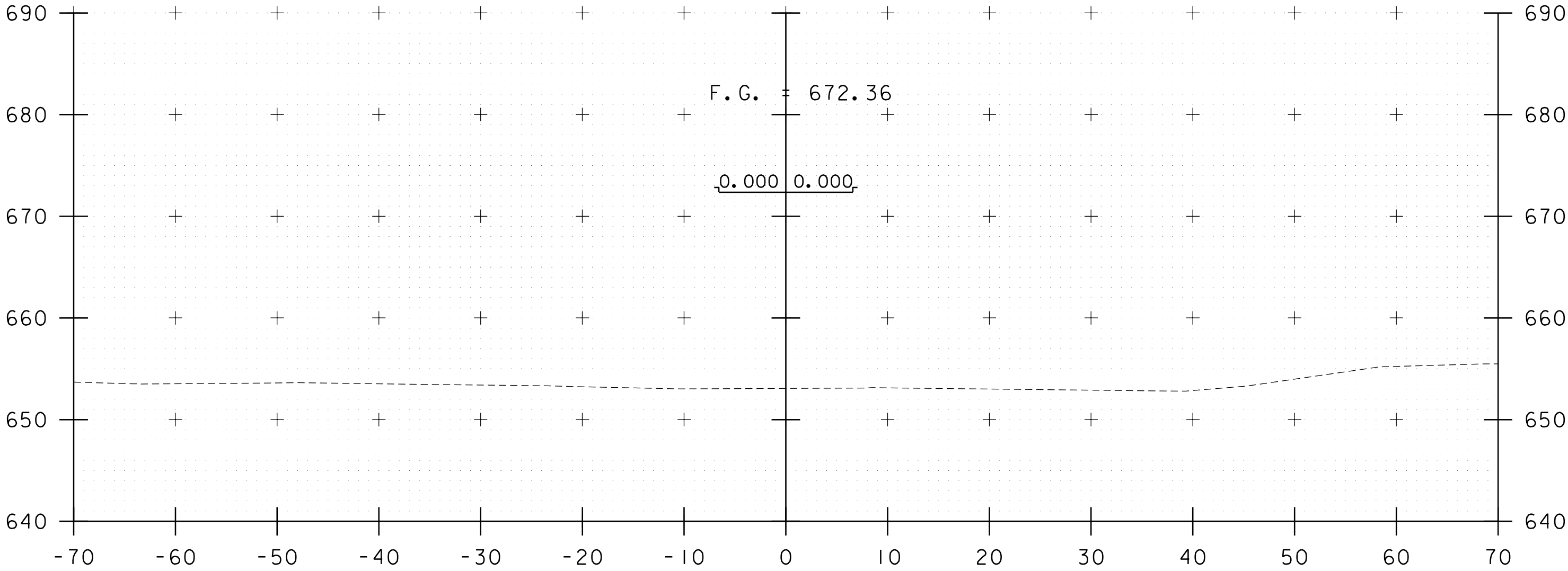
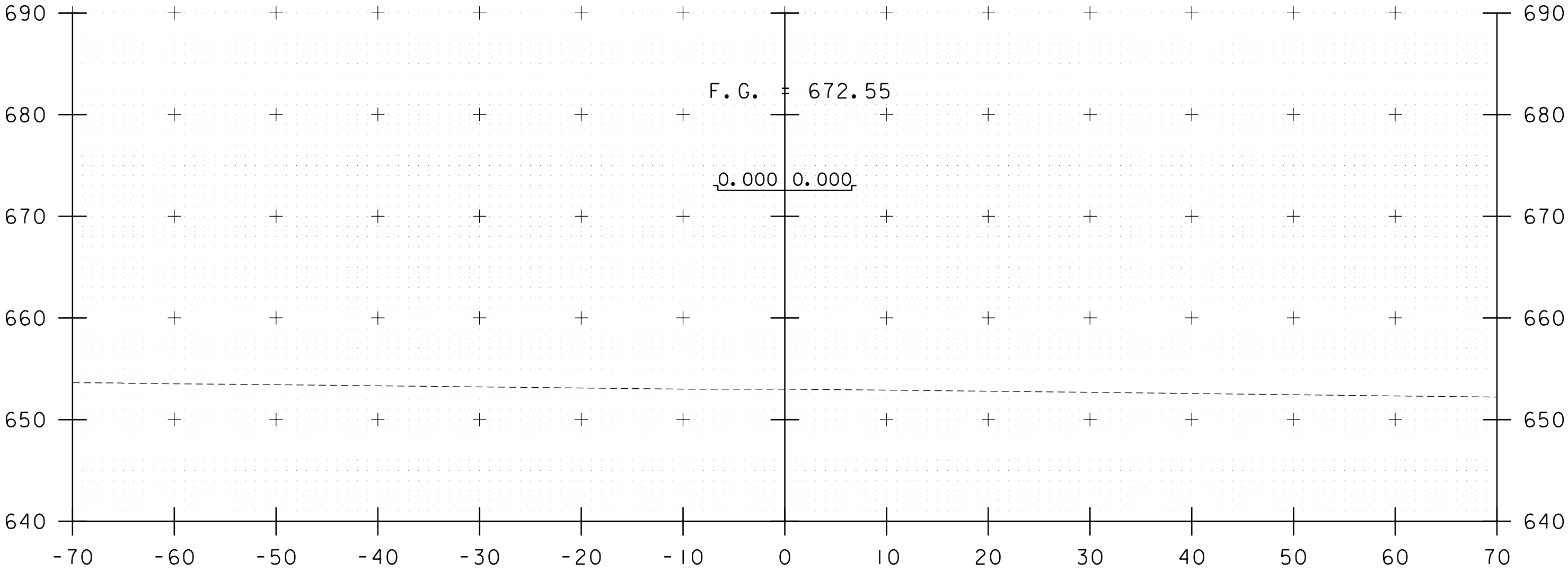
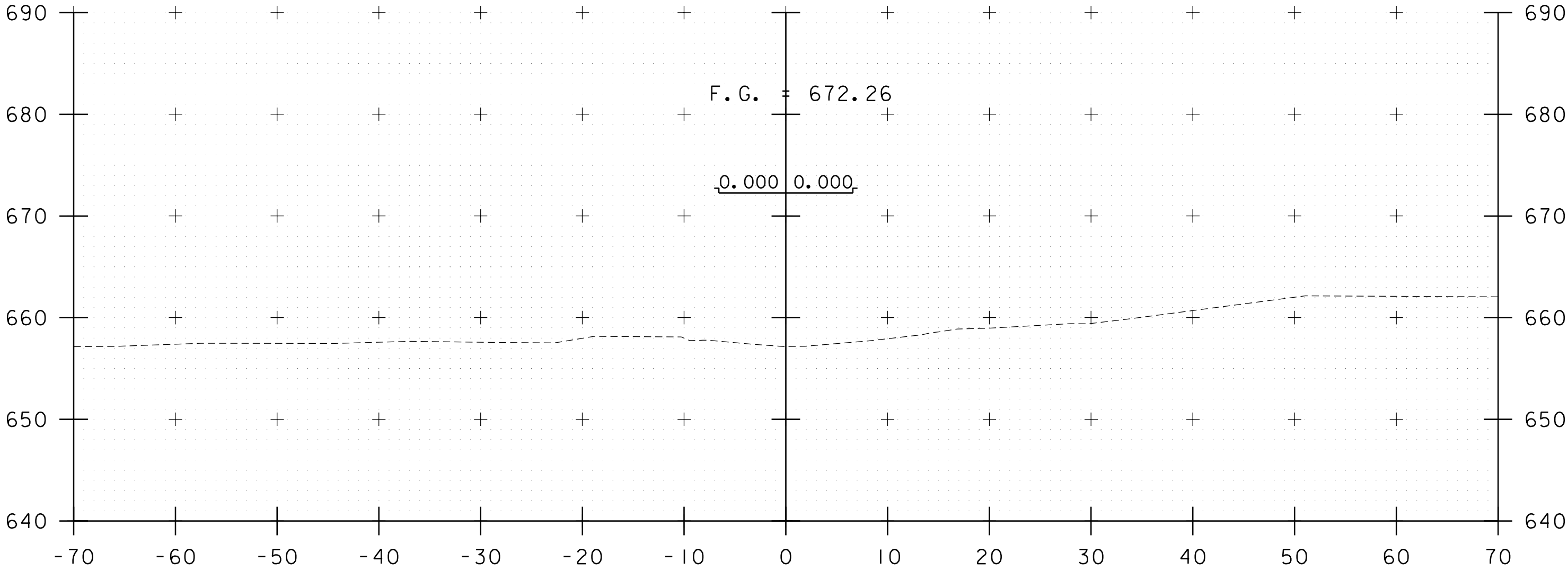
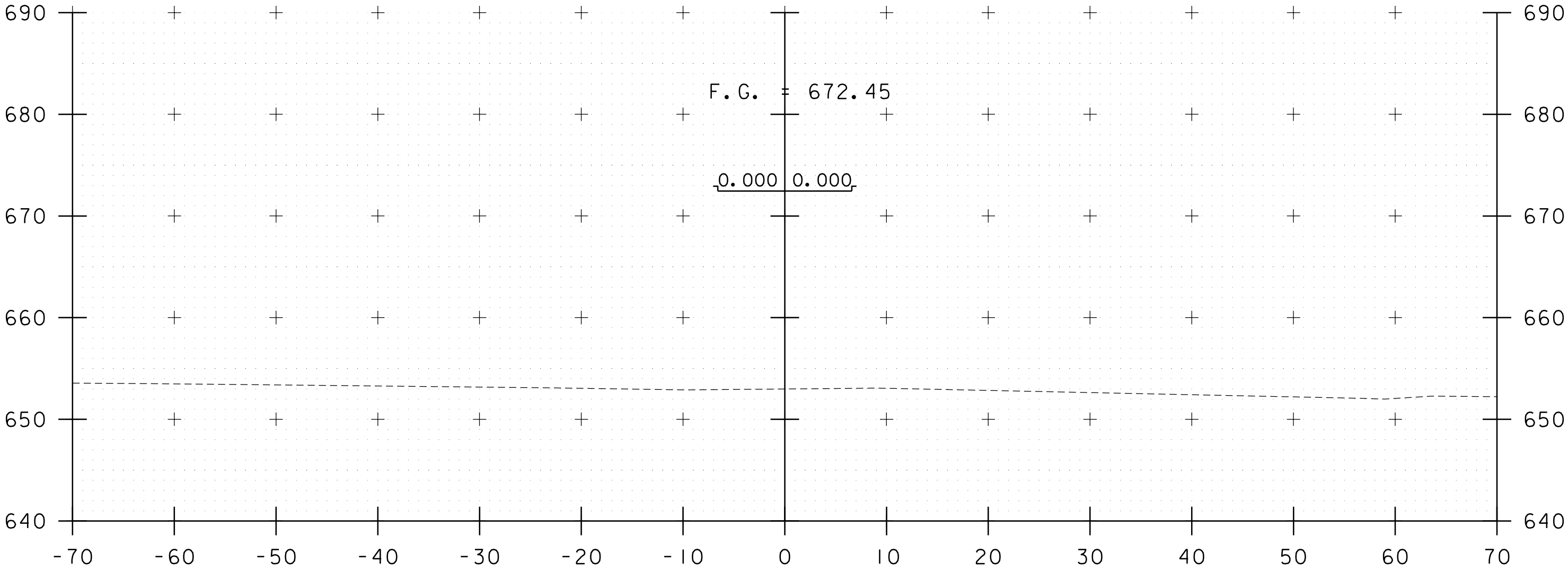


14+25



PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xsl.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: N.CENTERBAR
TH-19 CROSS SECTIONS 3	SHEET 17 OF 35

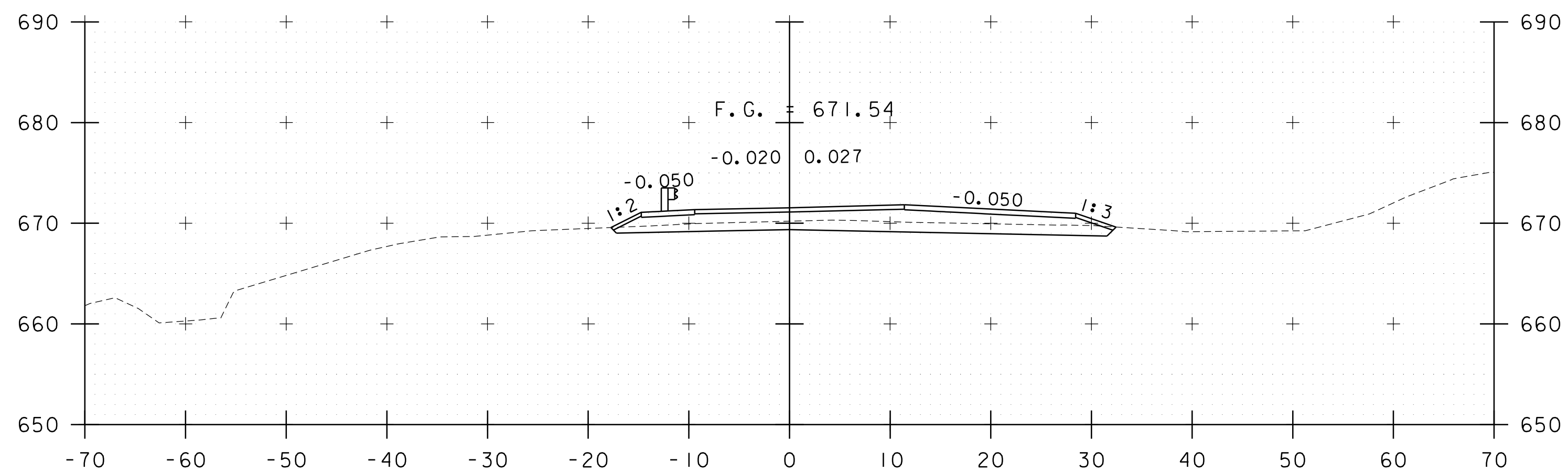
END BRIDGE  
STA 15+57.88



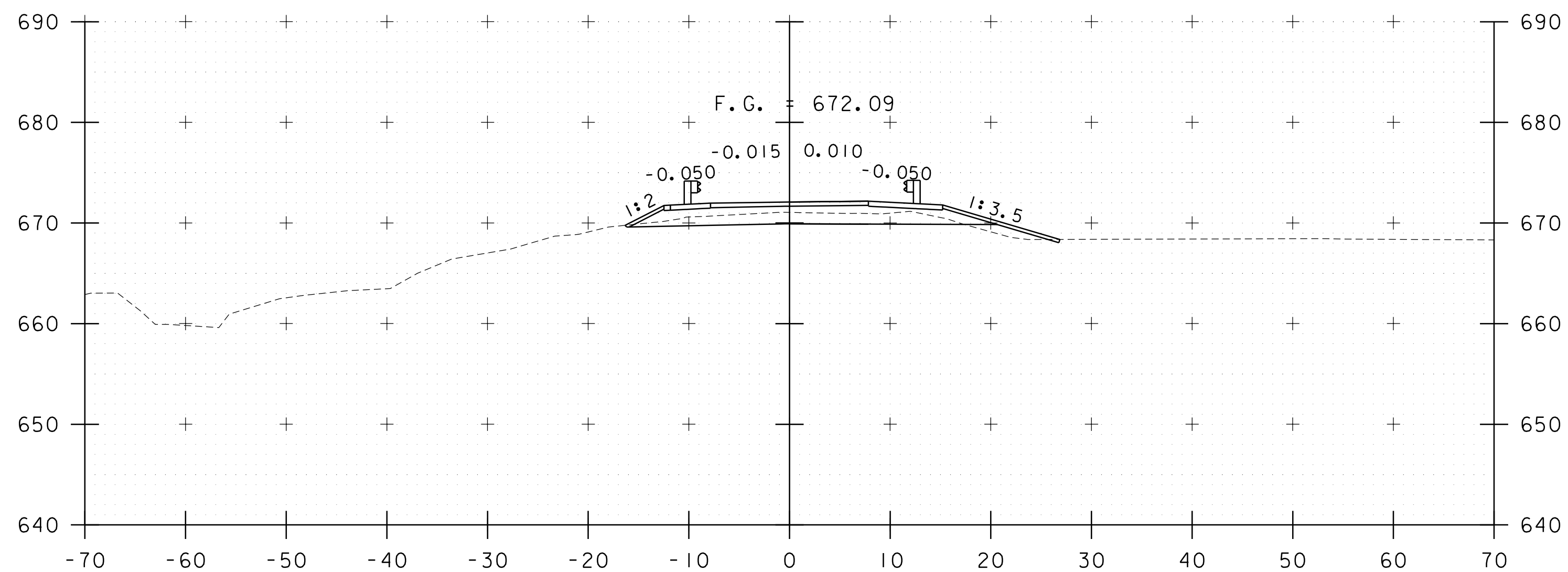
PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226xsl.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
TH-19 CROSS SECTIONS 4

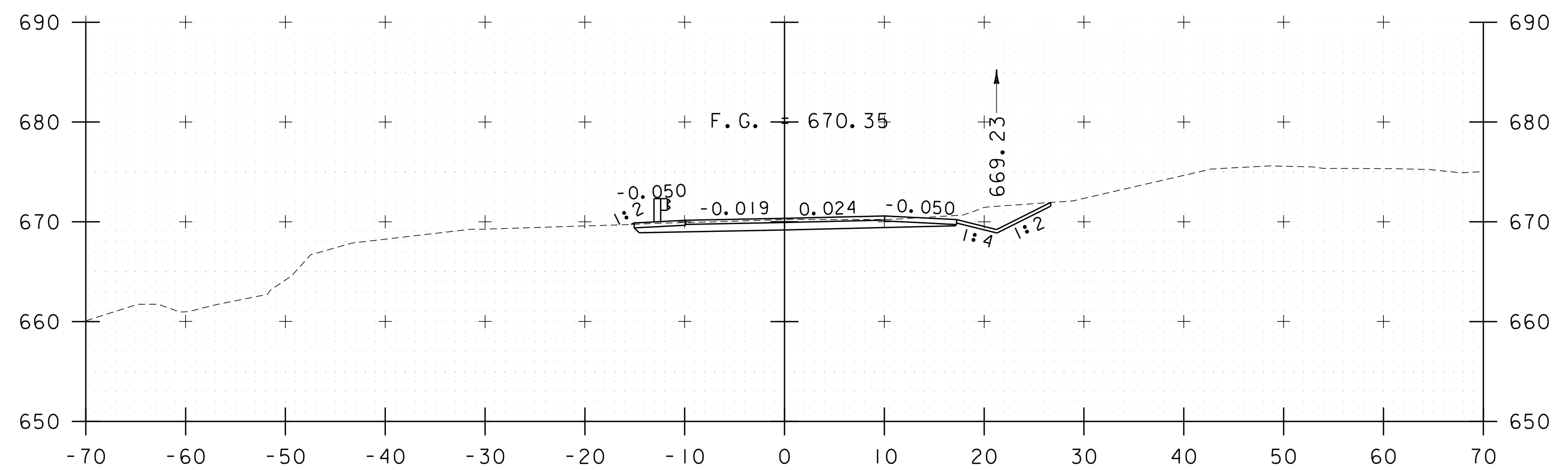
PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: N.CENTERBAR  
SHEET 18 OF 35



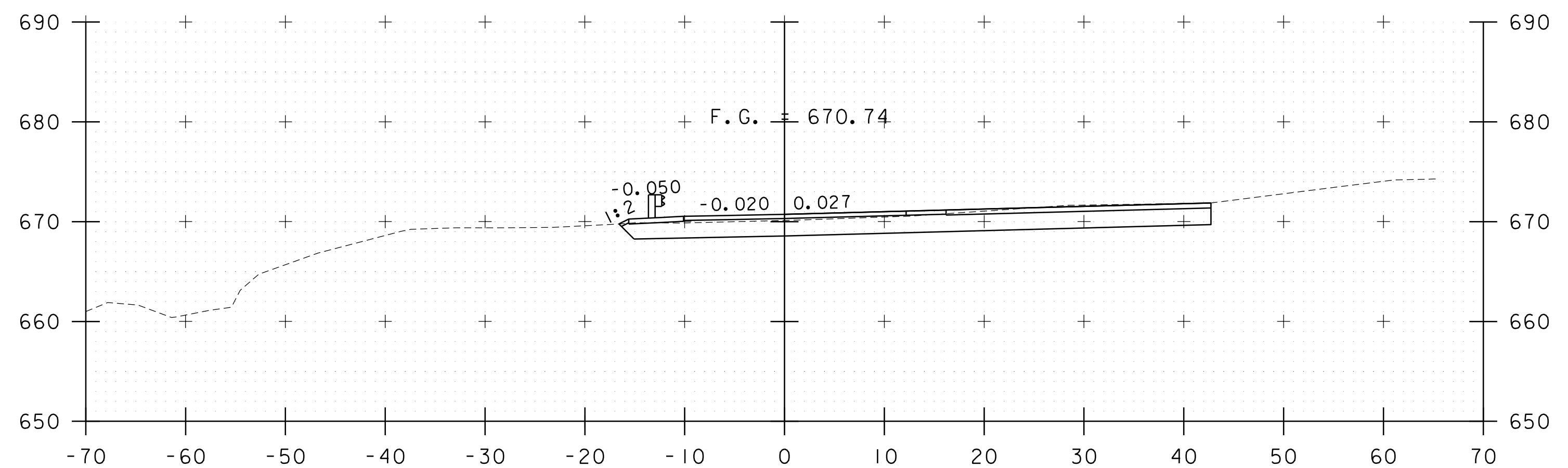
16+00



15+75



16+50

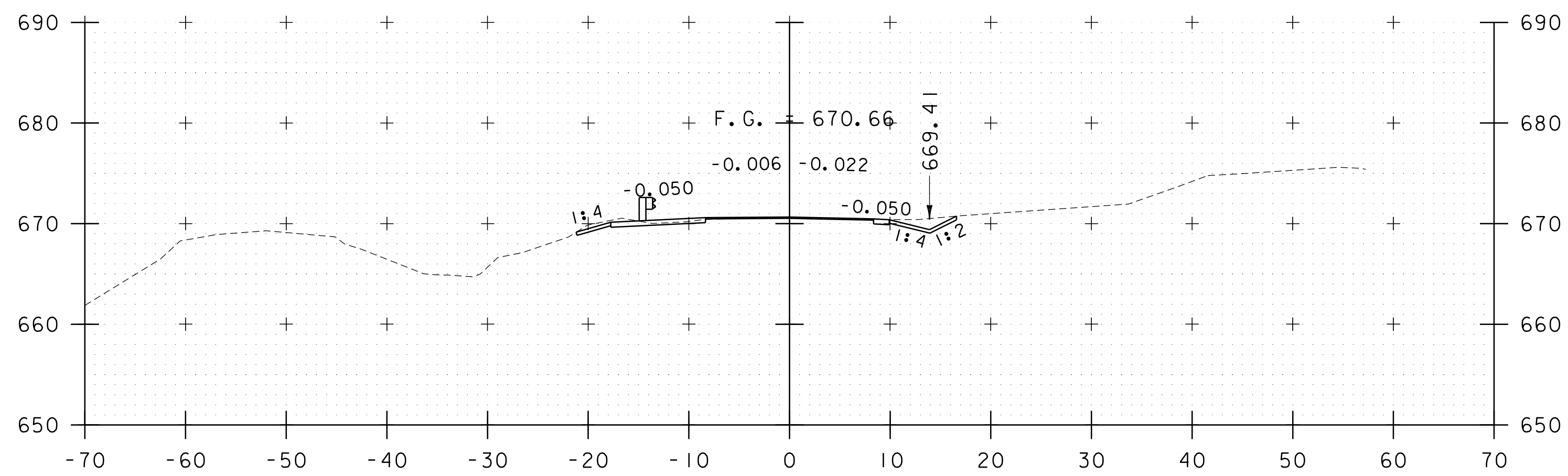


END PROJECT  
STA 16+25.00

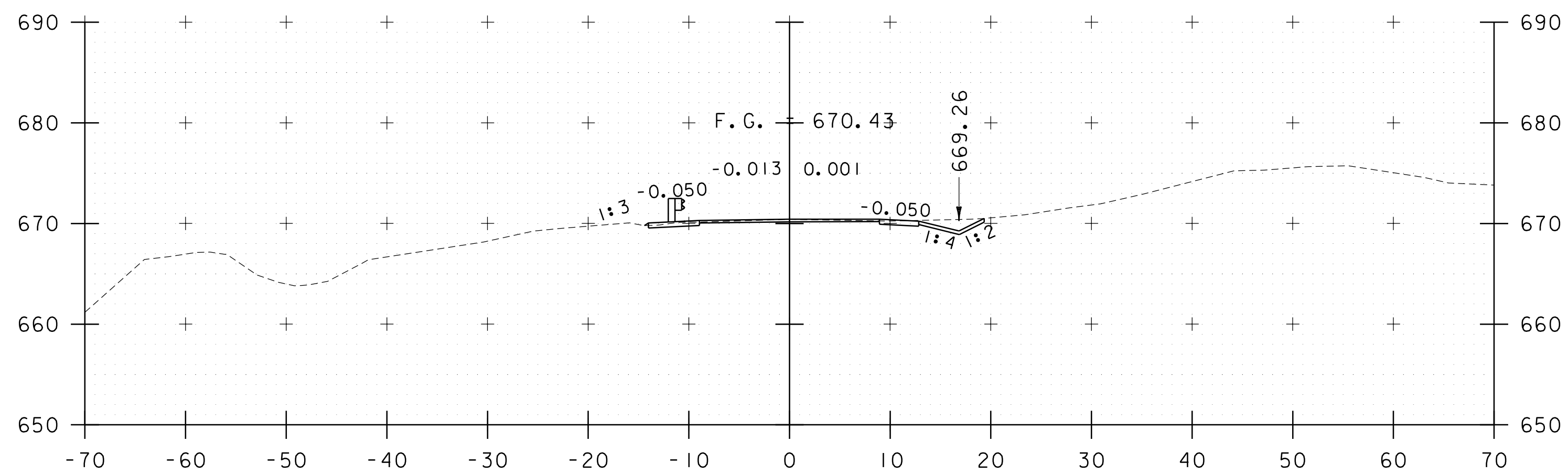
16+25



PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xsl.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: N.CENTERBAR
TH-19 CROSS SECTIONS 5	SHEET 19 OF 35

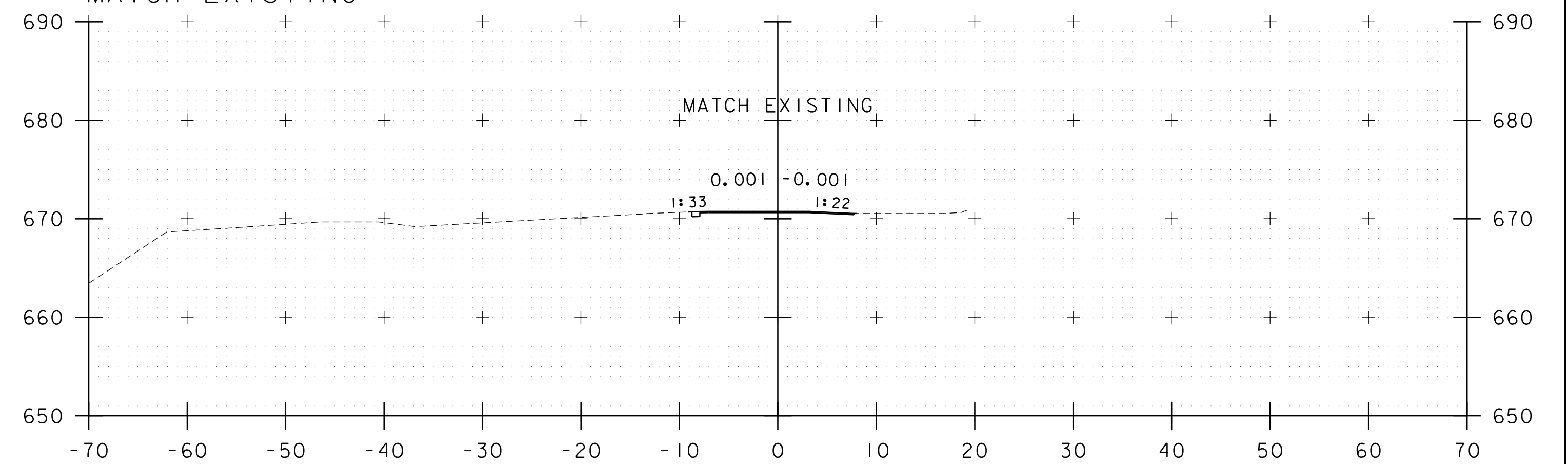


17+00



16+75

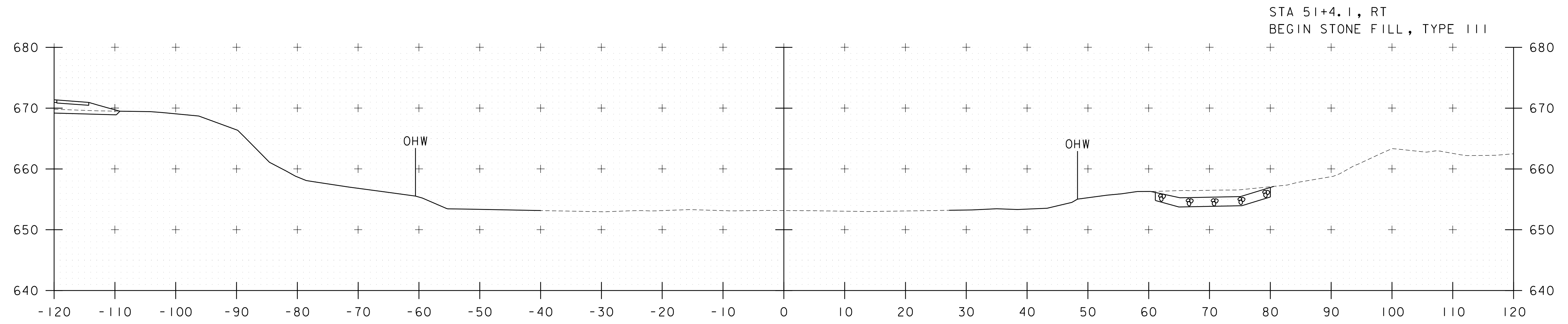
END APPROACH  
STA 17+27.50  
MATCH EXISTING



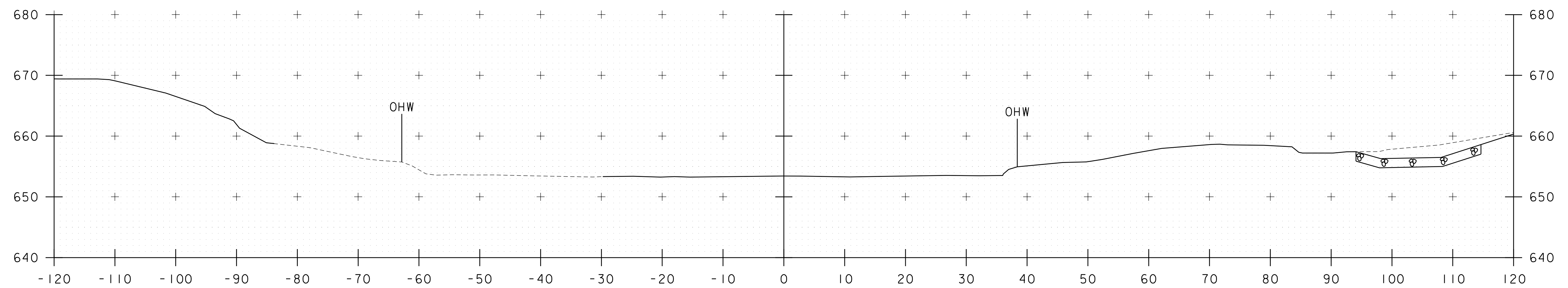
17+25



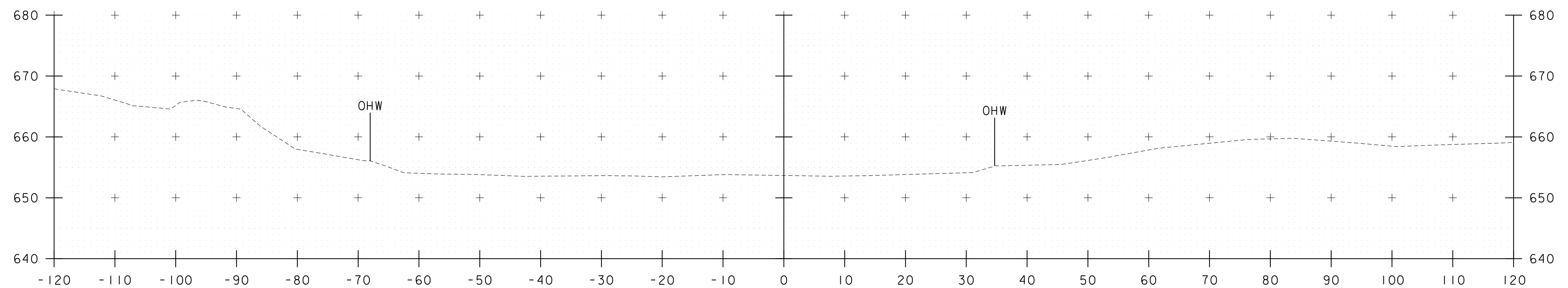
PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xsl.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: N.CENTERBAR
TH-19 CROSS SECTIONS 6	SHEET 20 OF 35



51+00



50+75



STA 50+41.6, RT  
END STONE FILL, TYPE III

50+50

STA 50+30.0, RT  
BEGIN STONE FILL, STREAM  
BED MATERIAL (E-STONE, TYPE I)

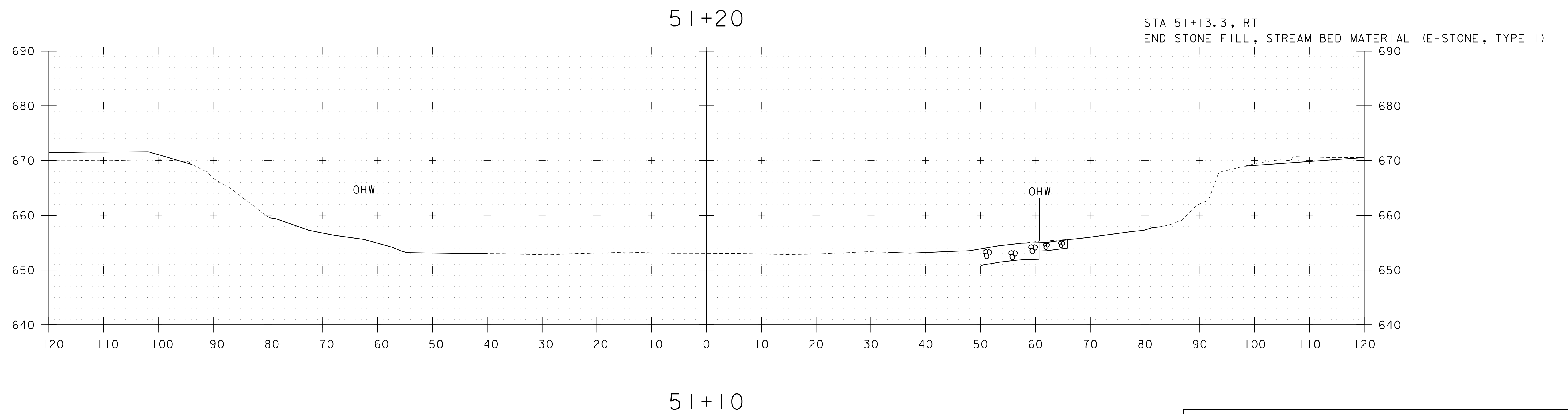
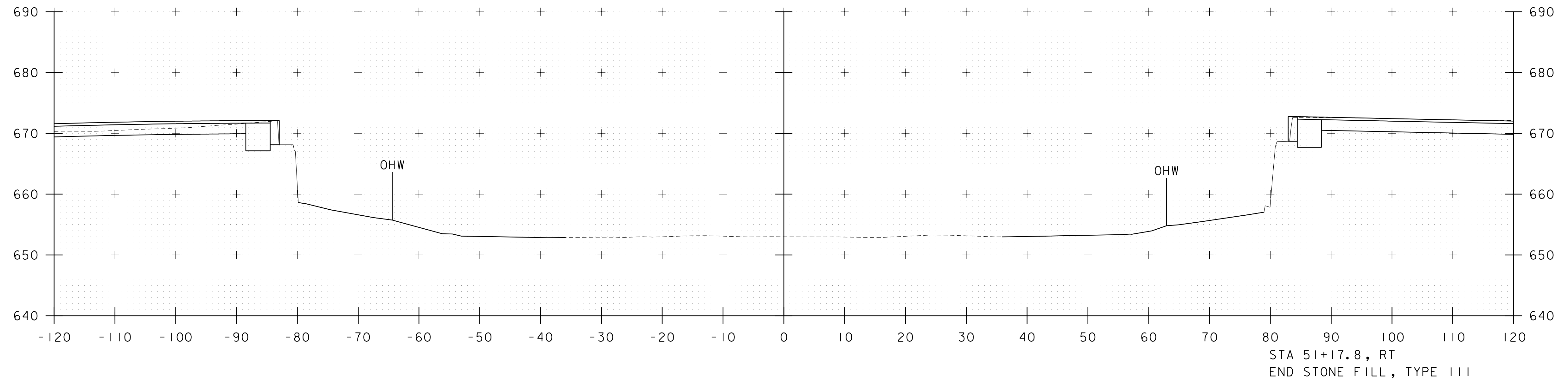
STA 50+25.4, RT  
BEGIN STONE FILL, TYPE III



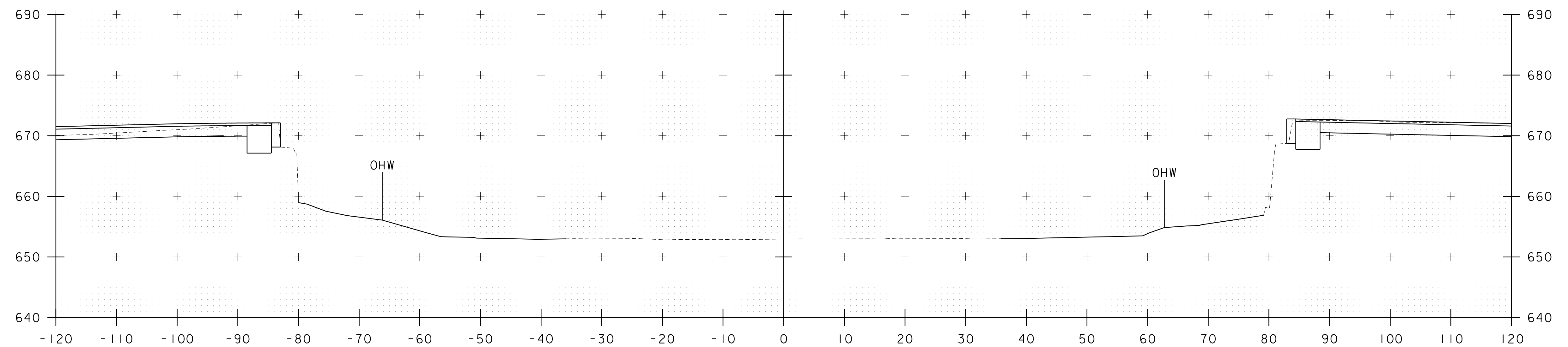
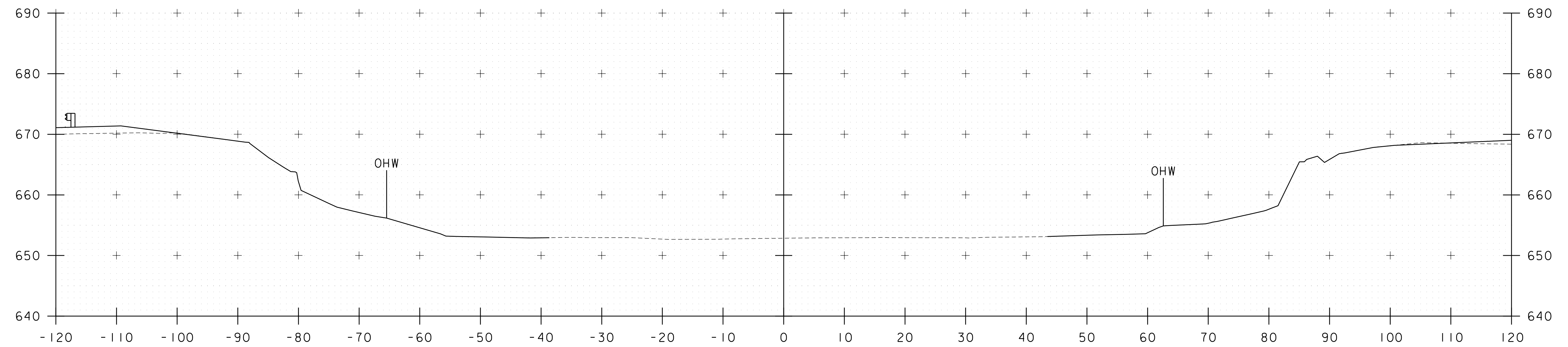
PROJECT NAME: JAMAICA  
PROJECT NUMBER: BO 1442(42)

FILE NAME: z19j226xs2.dgn  
PROJECT LEADER: S.JAMES  
DESIGNED BY: P.DUSTIN  
CHANNEL CROSS SECTIONS I

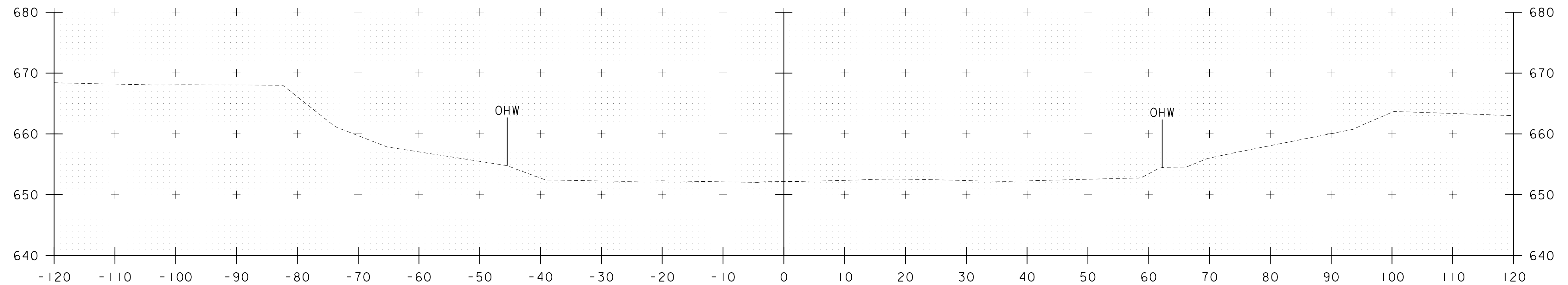
PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: E.WEINGARTNER  
SHEET 21 OF 35



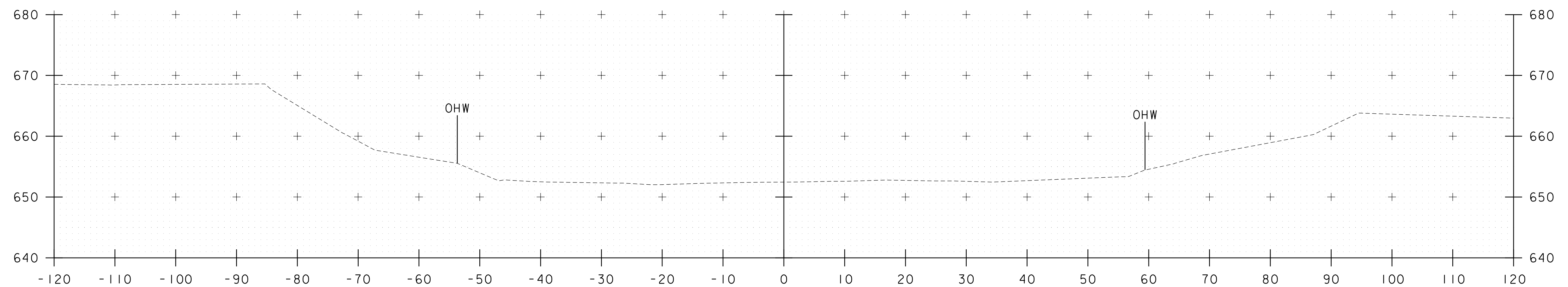
PROJECT NAME: JAMAICA	
PROJECT NUMBER: BO 1442(42)	
FILE NAME: z19j226xs2.dgn	PLOT DATE: 3/2/2023
PROJECT LEADER: S.JAMES	DRAWN BY: P.DUSTIN
DESIGNED BY: P.DUSTIN	CHECKED BY: E.WEINGARTNER
CHANNEL CROSS SECTIONS 2	SHEET 22 OF 35



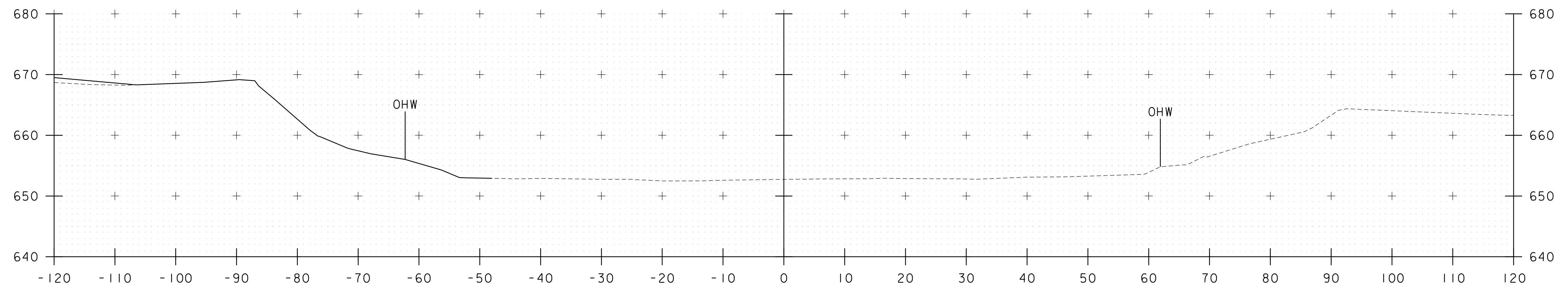
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CHANNEL CROSS SECTIONS 3	SHEET 23 OF 35



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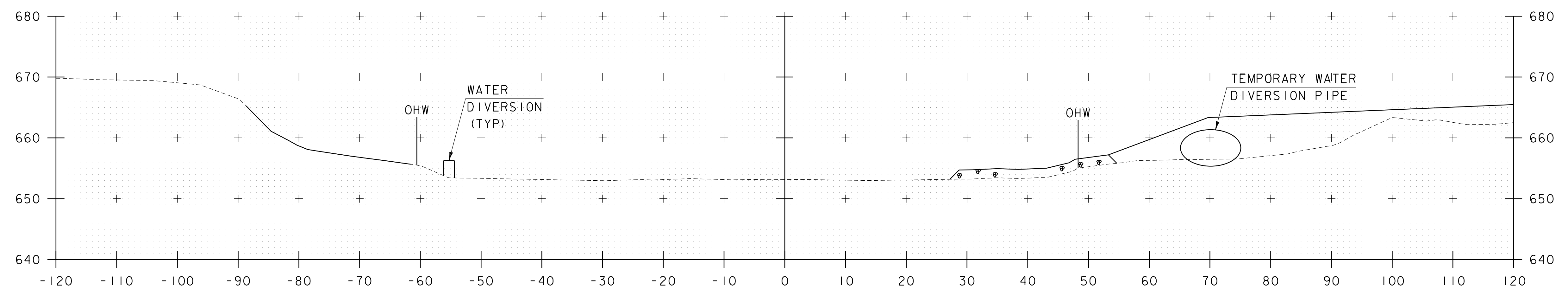
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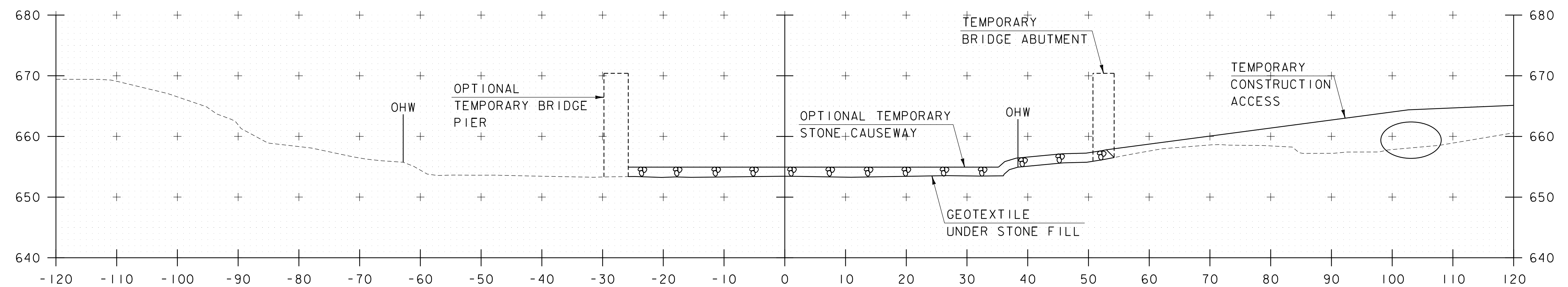
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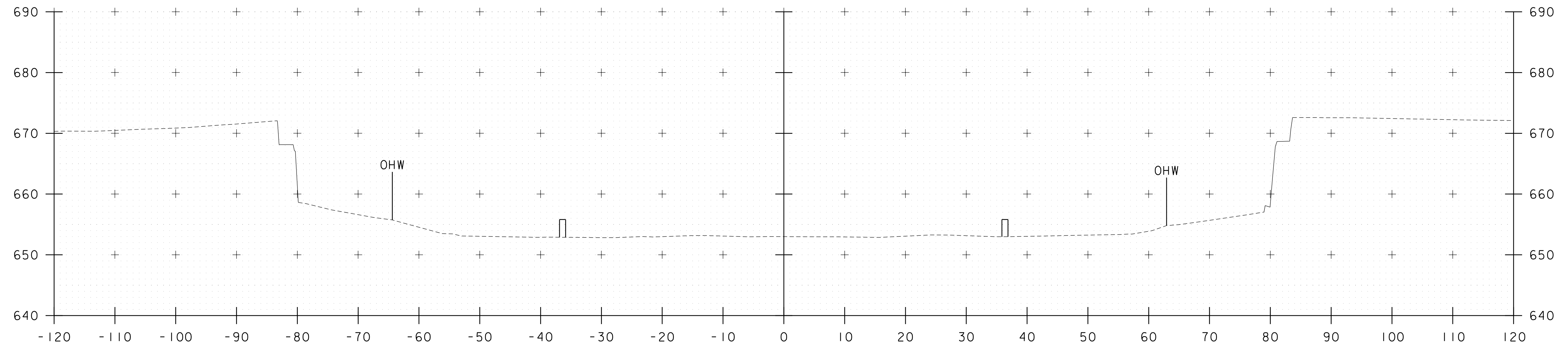
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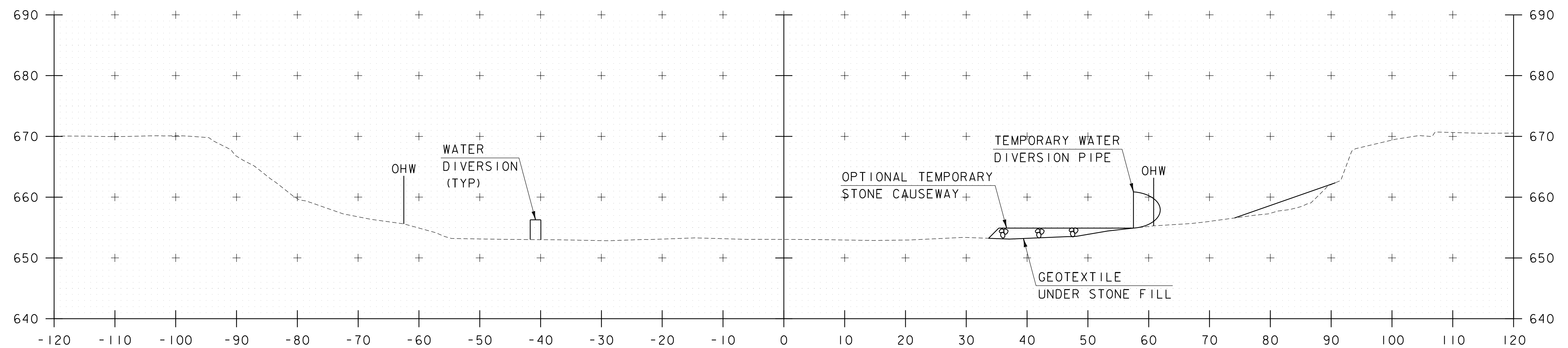
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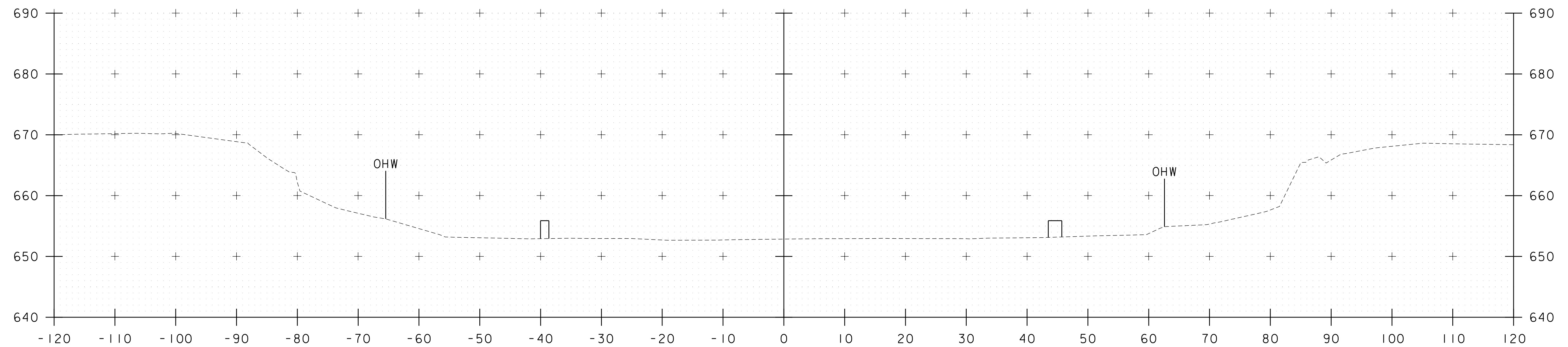
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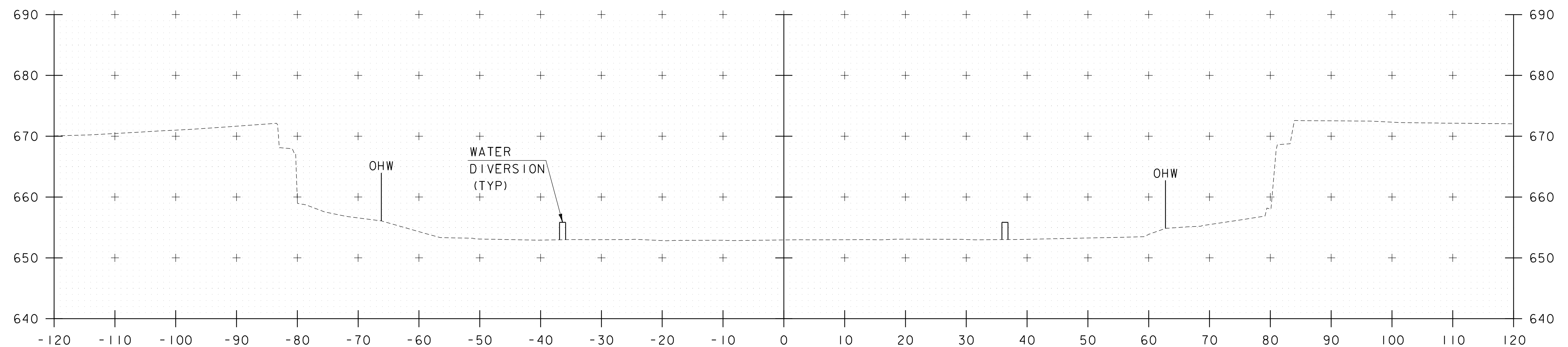
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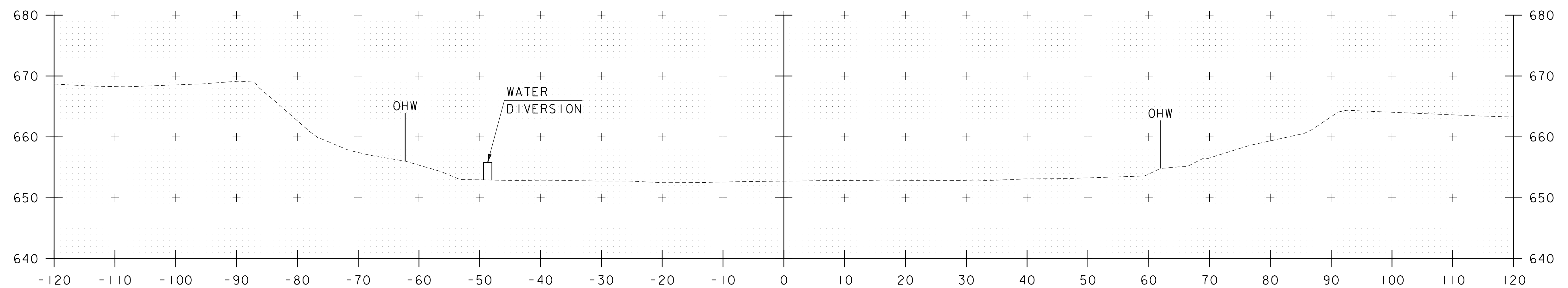
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EPSC PLAN NARRATIVE

1. PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REHABILITATION 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 STREEL PRATT THROUGH TRUSS WITH TIMBER DECK AND WEARING SURFACE, ON STONE ABUTMENTS. THE REHABILITATION ACTIVITIES WILL INCLUDE INCREASING THE LIVE LOAD RATING OF BRIDGE NO. 32 FROM 8 TO 20 TONS.

IT IS ANTICIPATED THAT CONSTRUCTION WILL LAST TWO CONSTRUCTION SEASONS.

2. AMOUNT OF DISTURBANCE & 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 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.

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 & 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, REHABILITATING EXISTING BRIDGE 32, RECONSTRUCTING THE ROADWAY APPROACHES, TEMPORARY BRIDGE AND APPROACHES REMOVAL AND THE FINAL ROADWAY RECONSTRUCTION, SITE GRADING AND CLEANUP TASKS.

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 TEMPORARY STREAM RELOCATION AND IN-WATER SEDIMENT ISOLATION MEASURES TO THE EXISTING BRIDGE AND OPTIONAL TEMPORARY BRIDGE PIER LOCATION WITH A STONE CAUSEWAY AND/OR A TEMPORARY TRESTLE.
- INSTALL TEMPORARY WATER DIVERSION STRUCTURES AND TEMPORARY SHORING TOWERS TO SUPPORT THE EXISTING BRIDGE DURING REHABILITATION OPERATIONS.
- EXCAVATE FOR AND CONSTRUCT TEMPORARY BRIDGE ABUTMENTS, WINGWALLS AND OPTIONAL TEMPORARY BRIDGE PIER, IF REQUIRED BY CONTRACTOR DESIGN.
- REMOVE TEMPORARY STREAM RELOCATION AND 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.
- REMOVE THE EXISTING BRIDGE 32 TIMBER DECK, STRINGERS, AND FLOOR BEAMS.
- INSTALL BRIDGE 32 REHABILITATION WORK PLATFORM.
- REHABILITATE BRIDGE 32.
- INSTALL PAINT CONTAINMENT SYSTEM.
- REPAINT ALL NEW AND EXISTING TRUSS AND FLOOR SYSTEM MEMBERS.
- REMOVE PAINT CONTAINMENT SYSTEM AND WORK PLATFORM.
- INSTALL TIMBER DECK, RUNNER BOARDS AND CURBS.

PHASE 3

- CONSTRUCT TH 19 ROADWAY MODIFICATIONS, DRAINAGE SYSTEMS AND EMBANKMENTS.
- CONSTRUCT TH 19 ROADWAY APPROACH TIE-INS, INSTALL PAVEMENT BASE AND TEMPORARY PAVEMENT FILLETS BETWEEN THE TEMPORARY BRIDGE APPROACHES AND INSTALL GUARDRAIL TEMPORARY CONCRETE BARRIER, WHILE MAINTAINING ACCESS TO RESIDENCES, SCHOOL, AND STATE PARK AT ALL TIMES.
- TRANSITION TRAFFIC INTO REHABILITATED BRIDGE 32 AND TH 19 ROADWAY USE.

PHASE 4

- REMOVE TEMPORARY BRIDGE SUPERSTRUCTURE.
- REMOVE TEMPORARY BRIDGE APPROACH ROADWAY TO CONSTRUCTION ACCESS STONE CAUSEWAY AND/OR TEMPORARY TRESTLE CONSTRUCTED IN PHASE 1.
- INSTALL TEMPORARY STREAM RELOCATION AND IN-WATER SEDIMENT ISOLATION MEASURES.
- REMOVE OPTIONAL TEMPORARY BRIDGE PIER, IF CONSTRUCTED BY CONTRACTOR.
- REMOVE EXISTING BRIDGE TEMPORARY SHORING TOWERS.
- REMOVE CONSTRUCTION ACCESS STONE CAUSEWAY AND/OR TEMPORARY TRESTLE AND TEMPORARY STREAM RELOCATION AND IN-WATER SEDIMENT ISOLATION MEASURES.
- REMOVE TEMPORARY BRIDGE ABUTMENTS, WINGWALLS, ROADWAY APPROACHES AND TEMPORARY WATER DIVERSION PIPE.
- CONSTRUCT RELOCATED STREAM CHANNEL AND FINALIZE TH 19 ROADWAY SIDESLOPES 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 AUTHORIZED THROUGH THE VANR DEC RIVER MANAGEMENT PROGRAM AND 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 FOREST LAND WITH RESIDENCES AND JAMAICA STATE PARK ADJACENT TO THE EXISTING BRIDGE IN THE NORTHEAST QUADRANT.

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 THAT WHICH 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.

4.6 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE. 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 BOULDEY, “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

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 ARCHAOLOGICALLY SENSITIVE. ANY NON-NATIVE, NATURAL ITEMS DISCOVERED DURING CONSTRUCITON SHALL BE BROUGHT TO THE ATTENTION OF THE RESIDENT ENGINEER IMMEDIATELY.

THE PROJECT 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 ADHERE TO TIME OF YEAR RESTRICTIONS. THE CONTRACTOR SHALL REFERENCE NOTICE TO BIDDERS AND PERMIT RESTRICTIONS FOR TIME OF YEAR RESTRICTIONS ON TREE CLEARING.

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.

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 CONTRACTOR MAY USE THIS PLAN, WITH ADJUSTMENTS AS NECESSARY, BASED ON THEIR SPECIFIC MEANS AND METHODS OF CONSTRUCTION.

APPLYING THESE MEASURES THROUGHOUT CONSTRUCTION IS CRITICAL TO THEIR SUCCESS IN MINIMIZING SEDIMENT TRANSPORT TO THE RECEIVING WATERS. REFER TO THE DETAILS INCLUDED IN THESE PLANS AND THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION’S VERMONT STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION AND SEDIMENT CONTROL FOR SPECIFIC GUIDANCE.

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. BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

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 OPENING UP 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.



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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. AFTER THIS TIME, 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.

SEED, MULCH, FERTILIZER AND LIME 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.

WOVEN WIRE REINFORCED SILT FENCE WILL BE INSTALLED ALONG THE CONTOURS AND AS PROPOSED ON THE EPSC PLAN.

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 ARE NOT ANTICIPATED TO BE NEEDED AS DESIGNED.

8. DEWATERING

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF 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.

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 105.29 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 ACTIVITIES ARE ON-GOING 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 AHEAD OF 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 & MAINTENANCE

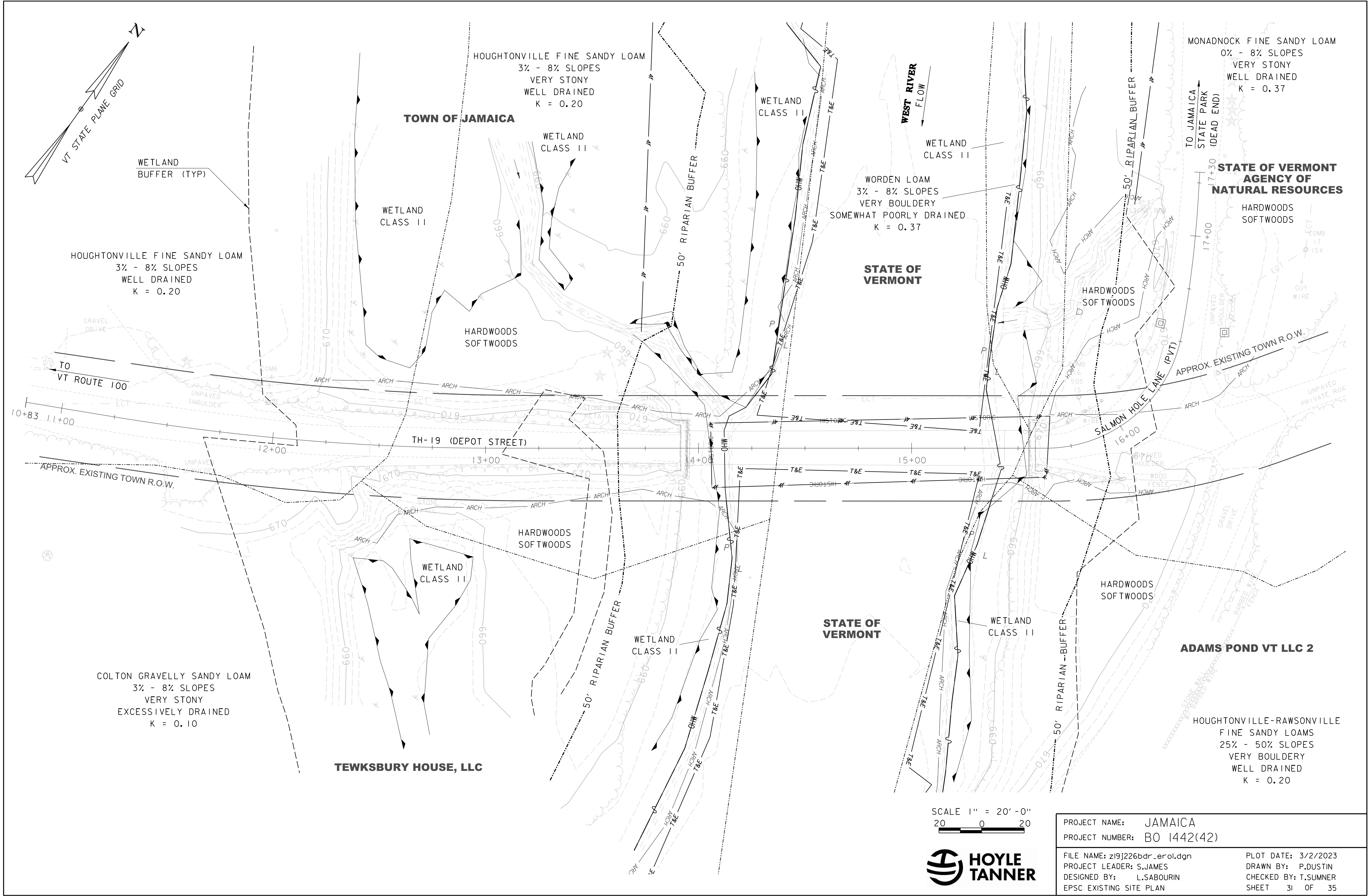
INSPECTION AND MONITORING OF THE PROJECT’S EPSC MEASURES SHALL BE CONDUCTED IN ACCORDANCE WITH STANDARD SPECIFICATION 653.04 MONITORING EROSION PREVENTION AND SEDIMENT CONTROL PLAN, ALONG WITH PERMIT SPECIFIC INSPECTION REQUIREMENTS.

THE CONTRACTOR SHALL PROVIDE A COPY OF THEIR INSPECTION FORM 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 OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.



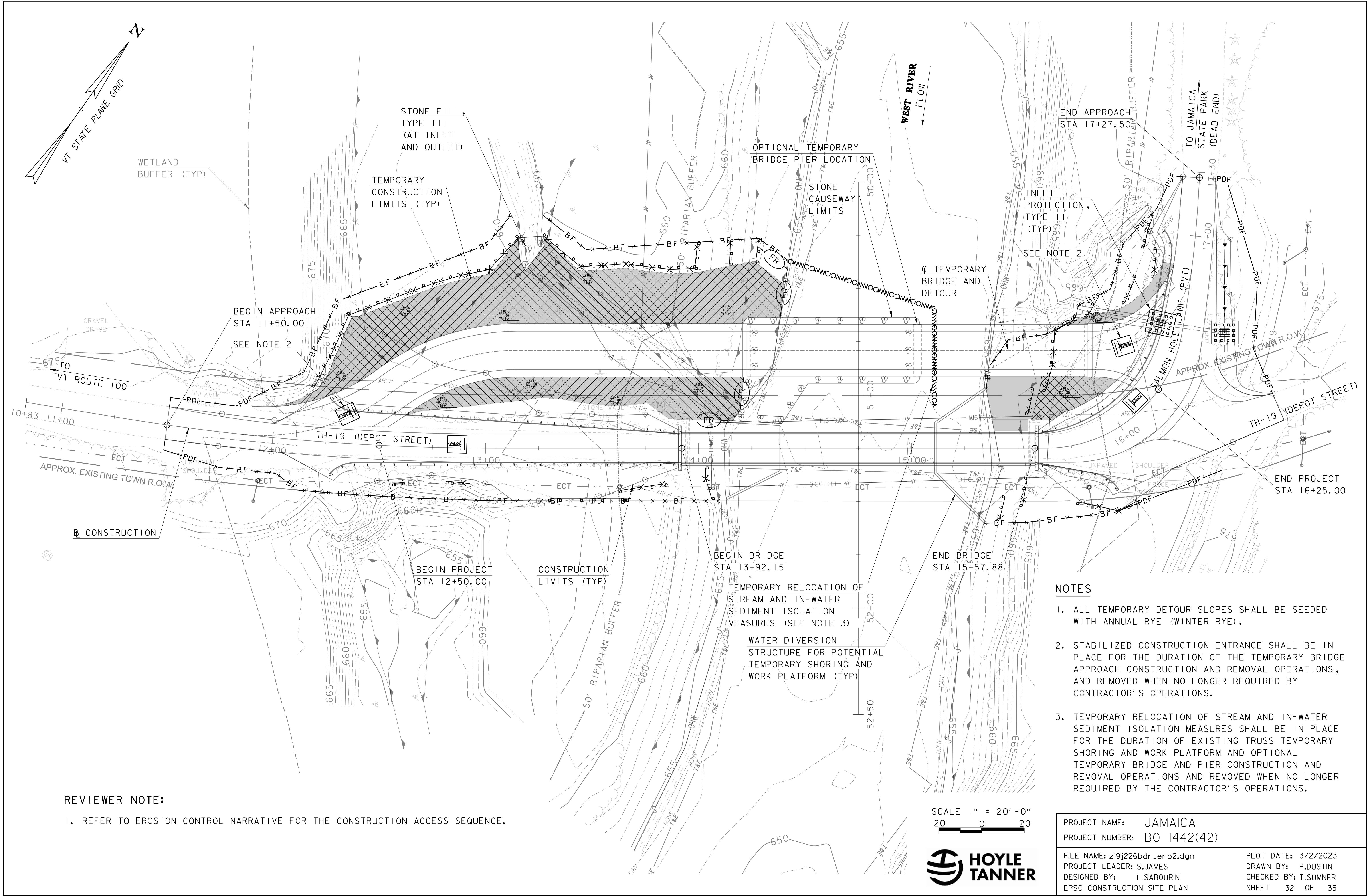
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SCALE 1" = 20' - 0"  
20 0 20



PROJECT NAME:	JAMAICA	FILE NAME:	z19j226bdr_erol.dgn	PLOT DATE:	3/2/2023
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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				

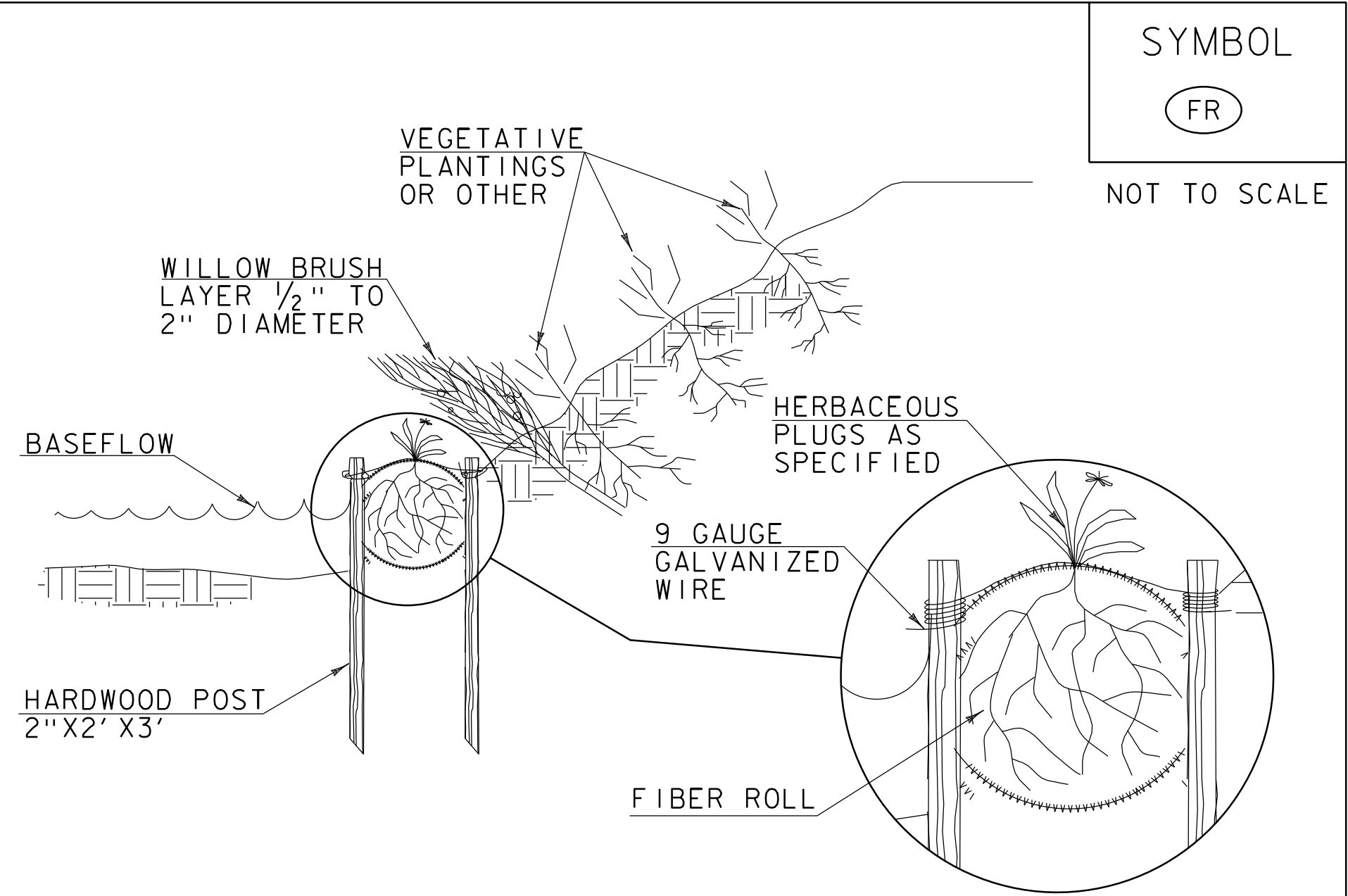
VAOT RURAL AREA MIX						
WEIGHT	LBS/AC		NAME	LATIN NAME	GERM	PURITY
	BROADCAST	HYDROSEED				
37.5%	22.5	45	CREeping RED FESCUE	FESTUCA RUBRA VAR. RUBRA	85%	98%
37.5%	22.5	45	TALL FESCUE	FESTUCA ARUNDINACEA	90%	95%
5.0%	3	6	RED TOP	AGROSTIS GIGANTEA	90%	95%
15.0%	9	18	WHITE FIELD CLOVER	TRIFOLIUM REPENS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



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

PLOT DATE: 3/2/2023  
DRAWN BY: P.DUSTIN  
CHECKED BY: T.SUMNER  
SHEET 34 OF 35

LEGEND

AOT LOW GROW/FINE FESCUE MIX

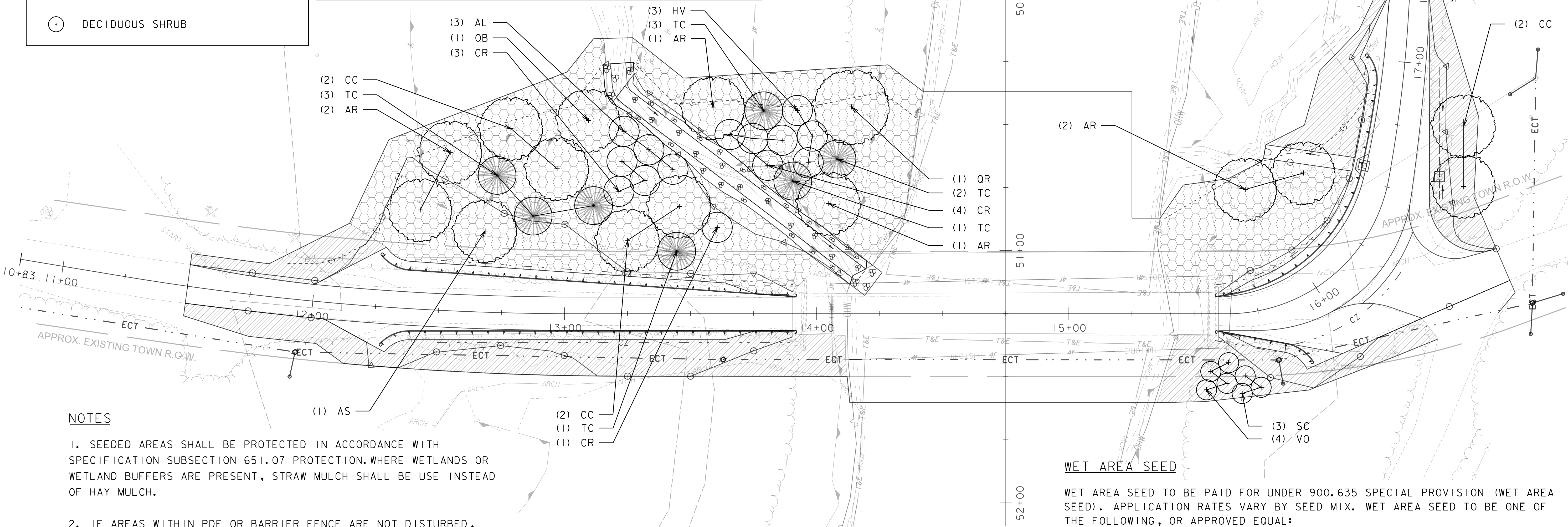
WET AREA SEED

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.



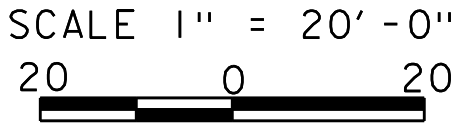
NOTES

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 656.65 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 528.11.

WET AREA SEED

- WET AREA SEED TO BE PAID FOR UNDER 900.635 SPECIAL PROVISION (WET AREA 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
PROJECT NUMBER:	BO 1442(42)
FILE NAME:	w\9j226bdr_ids
PROJECT LEADER:	S.JAMES
DESIGNED BY:	B. DONAHUE
LANDSCAPE PLAN	
PLOT DATE:	3/2/2023
DRAWN BY:	B.DONAHUE
CHECKED BY:	N.CENTERBAR
SHEET	35 OF 35