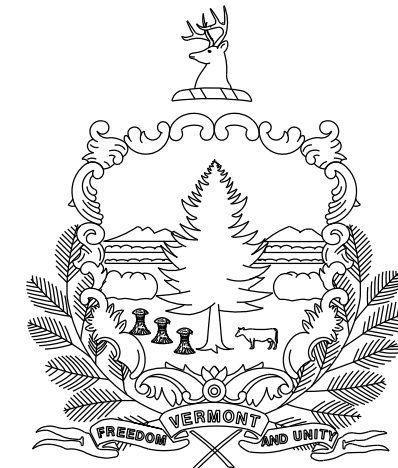


REVIEWER NOTES

1. THIS PROJECT IS ANTICIPATED TO BE A CLOSURE WITH A DETOUR.
2. NO ROW NEEDED FOR THIS PROJECT
3. THE BRIDGE CLOSER WILL BE SET AT 65 DAYS WITH POSSIBLE INCENTIVES TO REDUCE CLOSURE TIME.
4. CONSTRUCTION OF THE NEW PIER WILL OCCUR IN THE FALL OF 2017 PRIOR TO THE BRIDGE BEING CLOSED. A CAUSEWAY WILL BE INSTALLED AS SHOWN IN THE PLANS, THEN REMOVED ONCE THE PIER HAS BEEN BUILT. THE CAUSEWAY WILL BE REINSTALLED IN 2018 AFTER THE JUNE 15TH RESTRICTION.
5. FINAL HYDRAULICS IS PENDING. THE CONDITION WHERE 3 PIERS WILL BE IN THE RIVER AT THE SAME TIME HAS BEEN SHOWN TO PRODUCE A MINOR RISE IN WSE AT Q100 OF 0.01-0.02 FEET. EXCAVATION AROUND THE EXISTING ABUTMENTS TO PROVIDE COMPENSATORY FLOODWAY STORAGE MAY BE REQUIRED.
6. UTILITY RELOCATION WILL BE NEEDED AND IS STILL PENDING. THE UTILITIES WILL EITHER BE TEMPORARILY RELOCATED NORTH, TOWARD THE SNOWMOBILE BRIDGE AND MOVED BACK AFTER CONSTRUCTION, OR PERMANENTLY MOVED SOUTH OF THE BRIDGE.

STATE OF VERMONT AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT BRIDGE PROJECT

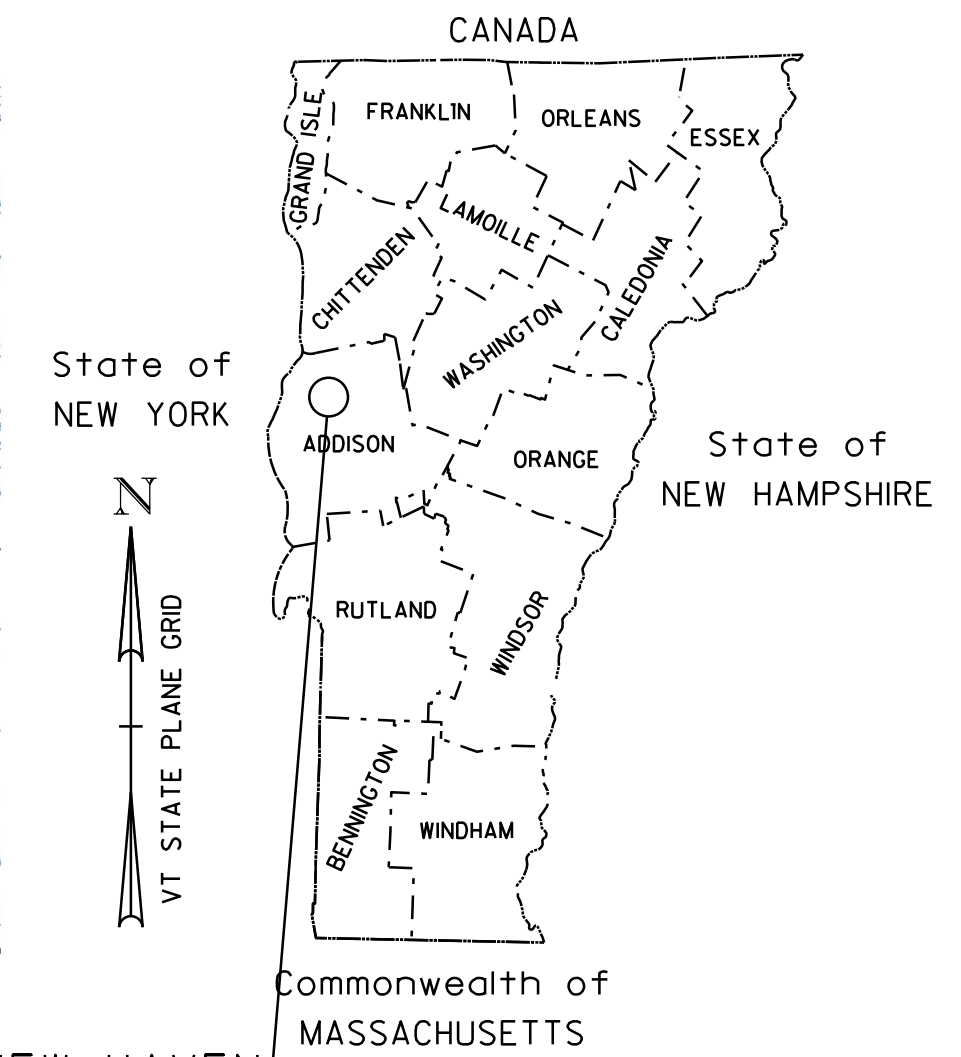
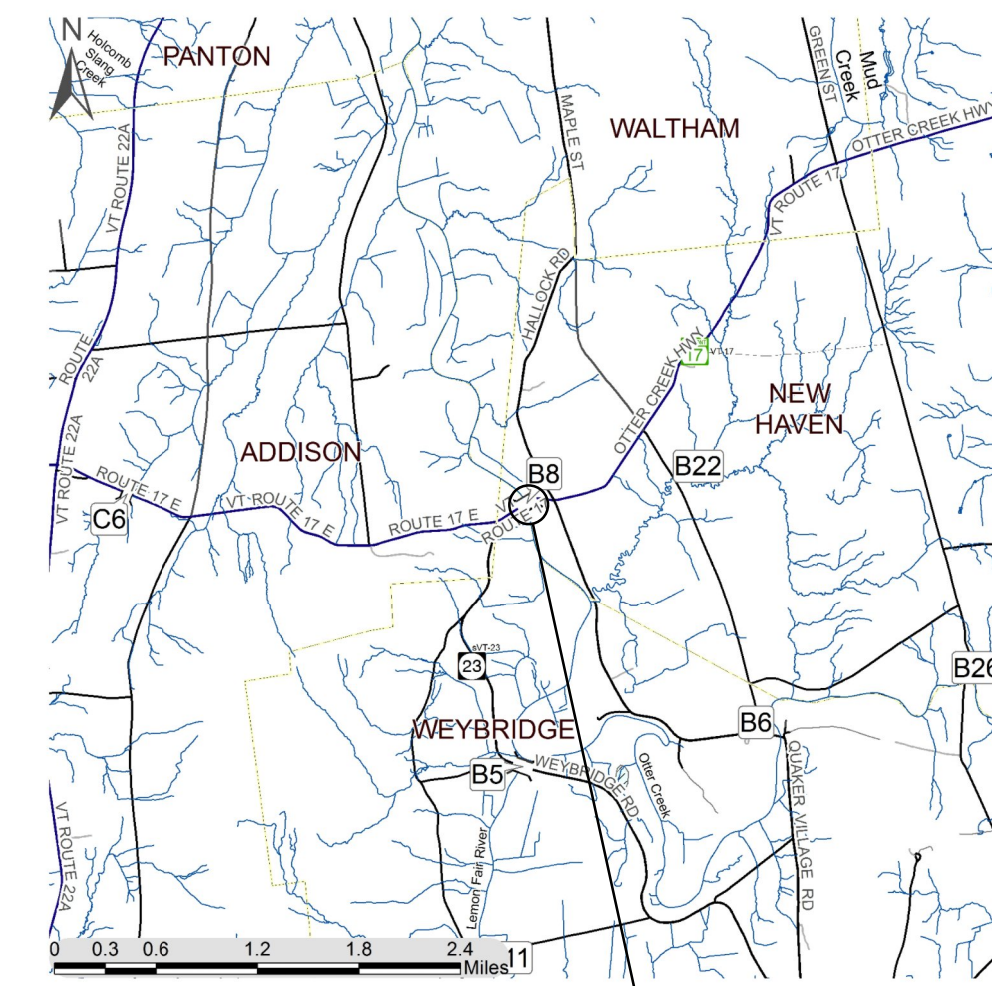
TOWNS OF WEYBRIDGE AND NEW HAVEN
COUNTY OF ADDISON

ROUTE NO : VT ROUTE 17 MINOR ARTERIAL BRIDGE NO : 8

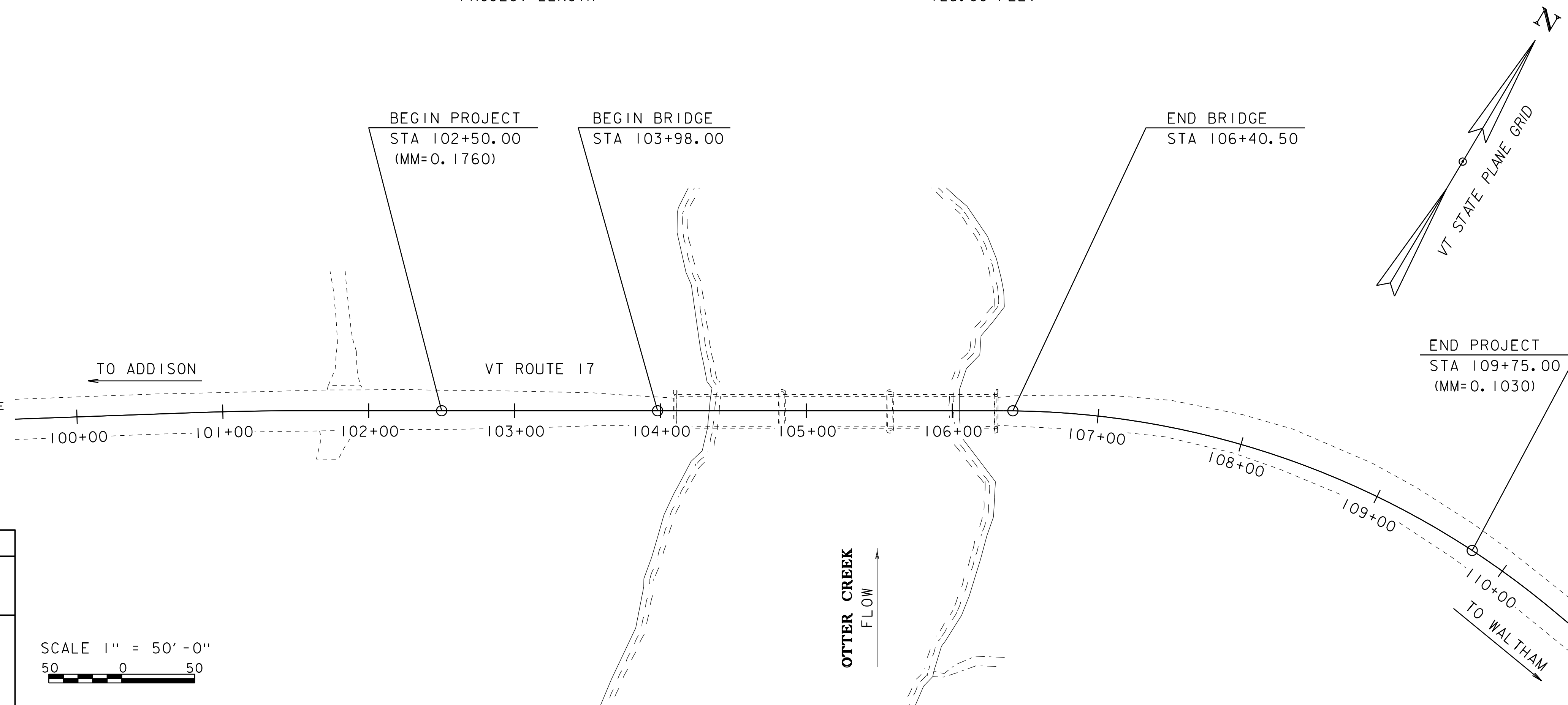
PROJECT LOCATION: APPROXIMATELY 3.0 MILES EAST OF THE JUNCTION WITH VT ROUTE 22A

PROJECT DESCRIPTION: FULL REPLACEMENT OF BRIDGE NO. 8 ON VT17 BETWEEN WEYBRIDGE AND NEW HAVEN, OVER OTTER CREEK.

LENGTH OF BRIDGE: 242.50 FEET
LENGTH OF ROADWAY: 482.50 FEET
PROJECT LENGTH: 725.00 FEET

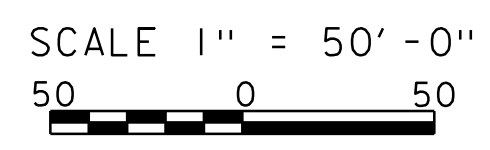


WEYBRIDGE-NEW HAVEN
BF 032-1 (19)



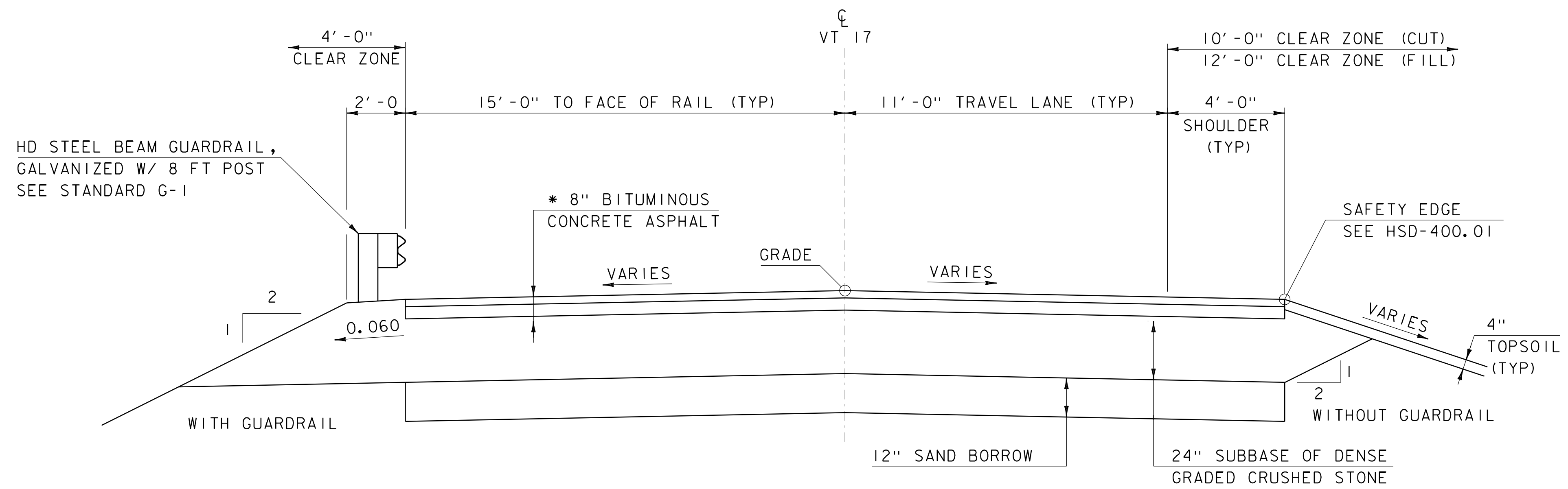
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	L. ORVIS
SURVEYED DATE :	1-10-2014
DATUM	
VERTICAL	NAVD88
HORIZONTAL	NAD83 (96)



PRELIMINARY PLANS
15-NOV-2016

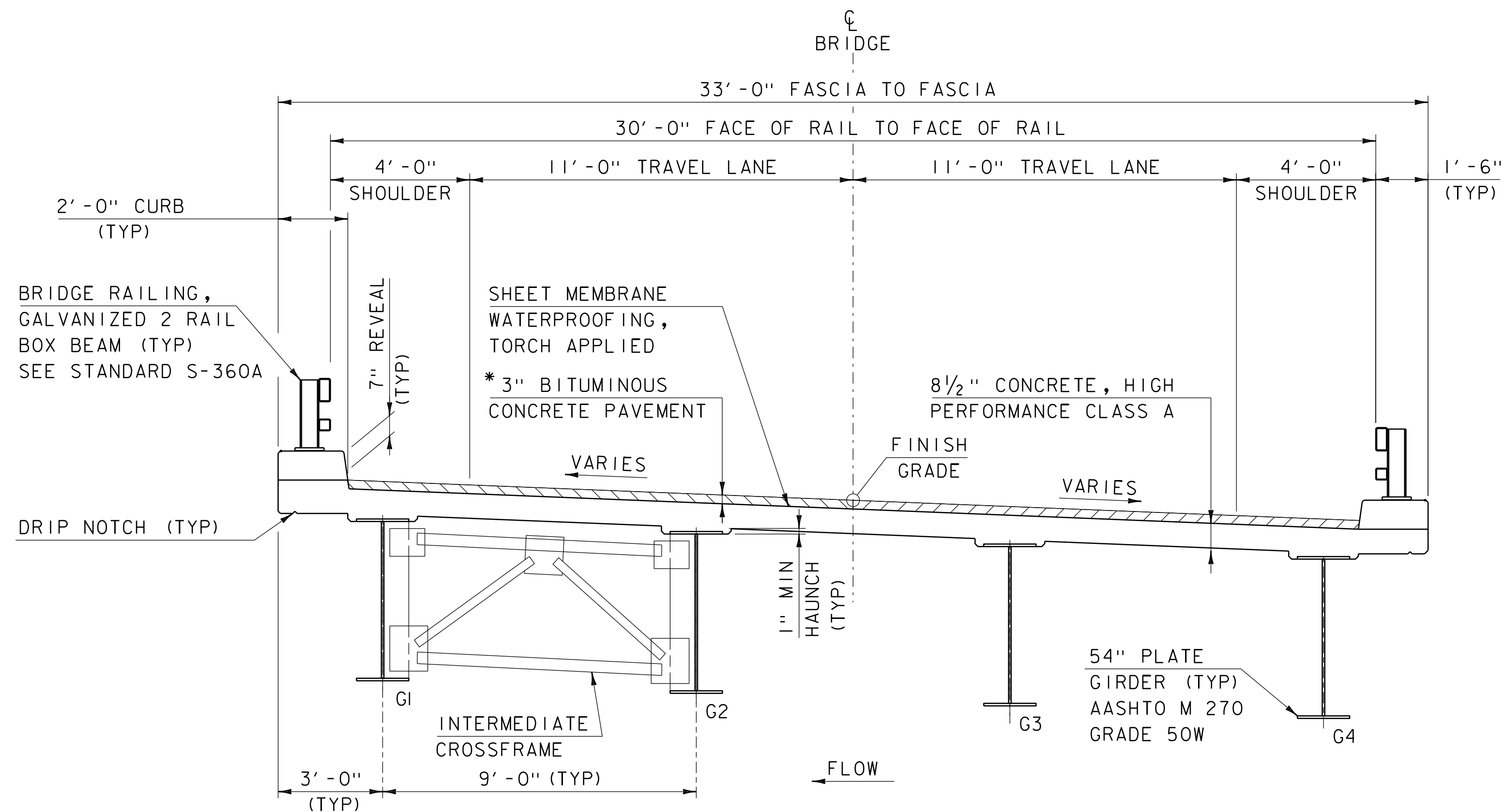
DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER :	C. W. CARLSON P. E.
PROJECT NAME :	WEYBRIDGE-NEW HAVEN
PROJECT NUMBER :	BF 032-1 (19)
SHEET 1 OF 45 SHEETS	



ROADWAY TYPICAL SECTION

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

*2 LIFTS OF 1½" BITUM. CONC. PAVEMENT TYPE IVS OVER
 2 LIFTS OF 2½" BITUM. CONC. PAVEMENT TYPE IIS
 PAID UNDER SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY).



BRIDGE TYPICAL SECTION

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

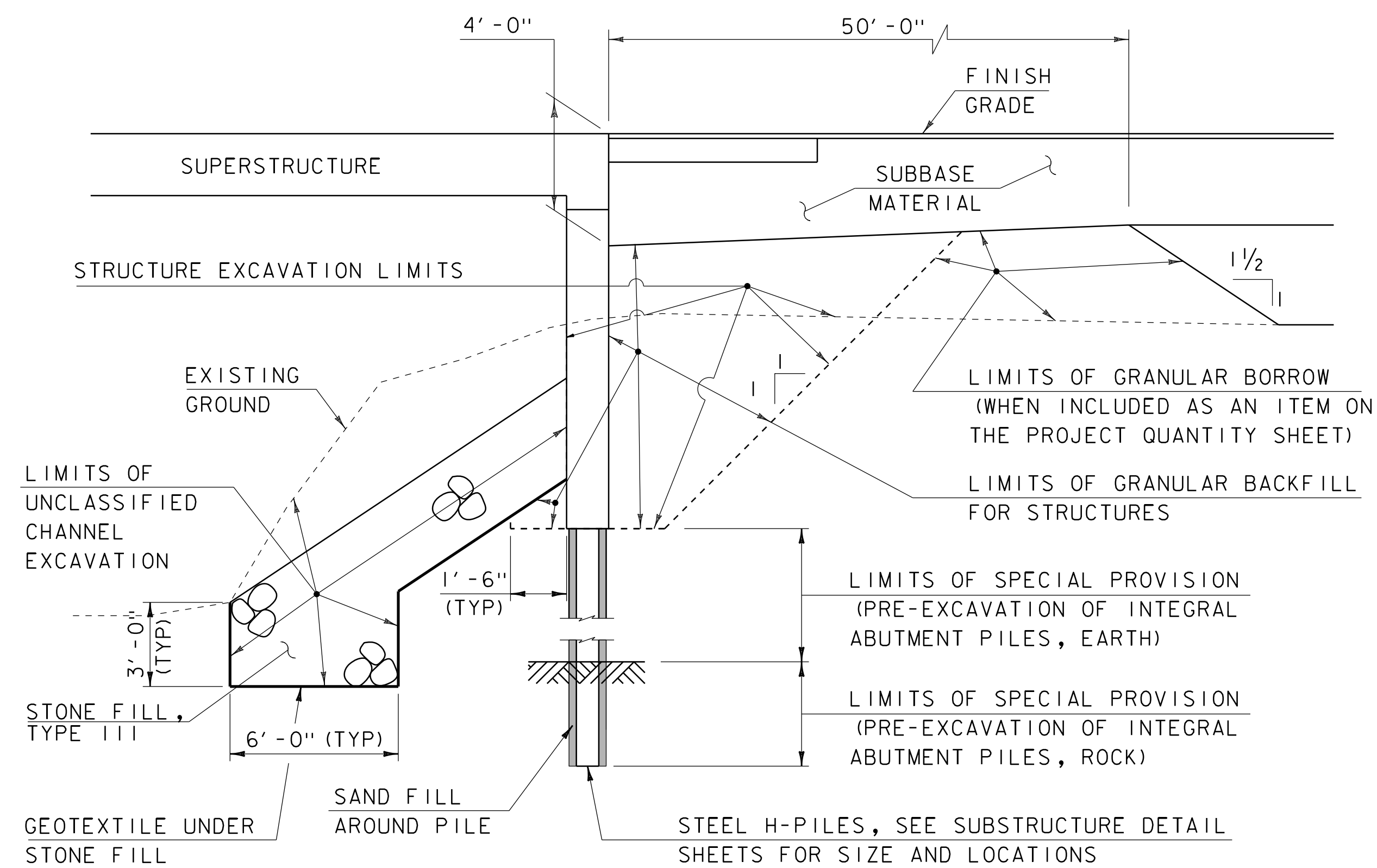
*2 LIFTS OF 1½" BITUM. CONC. PAVEMENT TYPE IVS OVER

MATERIAL TOLERANCES (IF USED ON PROJECT)

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

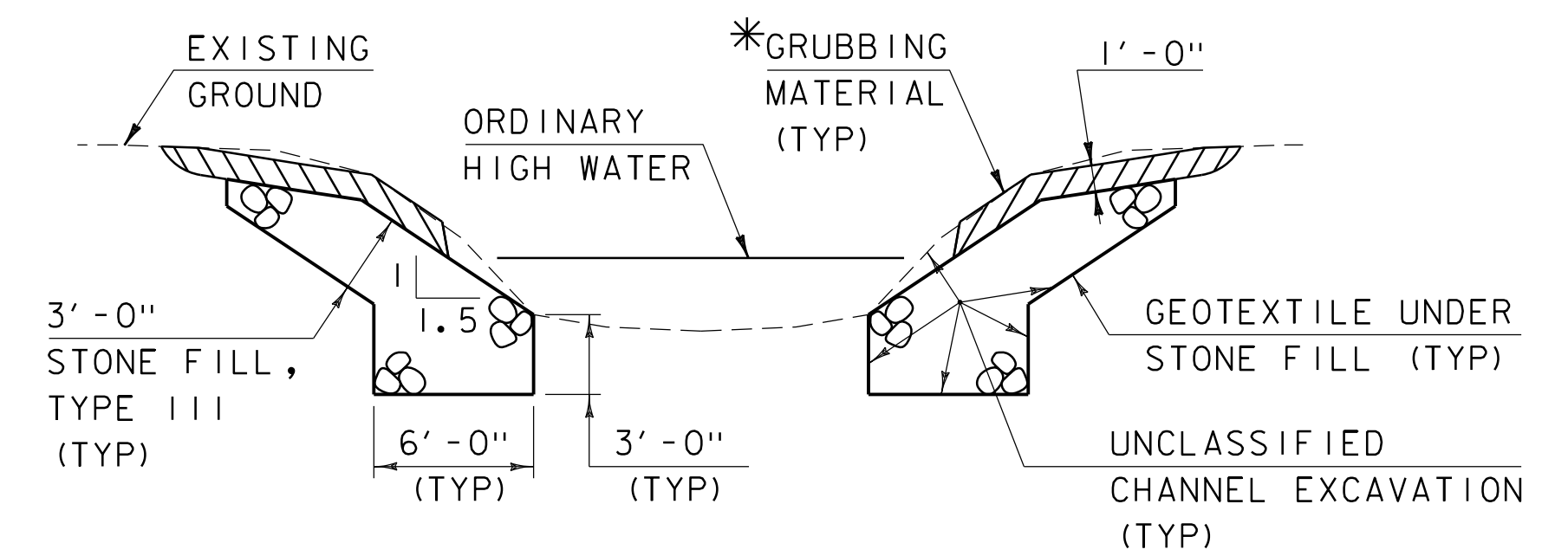
PROJECT NAME: WEYBRIDGE-NEW HAVEN
 PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552typ.dgn PLOT DATE: 15-NOV-2016
 PROJECT LEADER: C.W. CARLSON DRAWN BY: M. LONGSTREET
 DESIGNED BY: D. PETERSON CHECKED BY: D. PETERSON
 TYPICAL SECTIONS SHEET 3 OF 45



ABUTMENT EARTHWORK TYPICAL SECTION

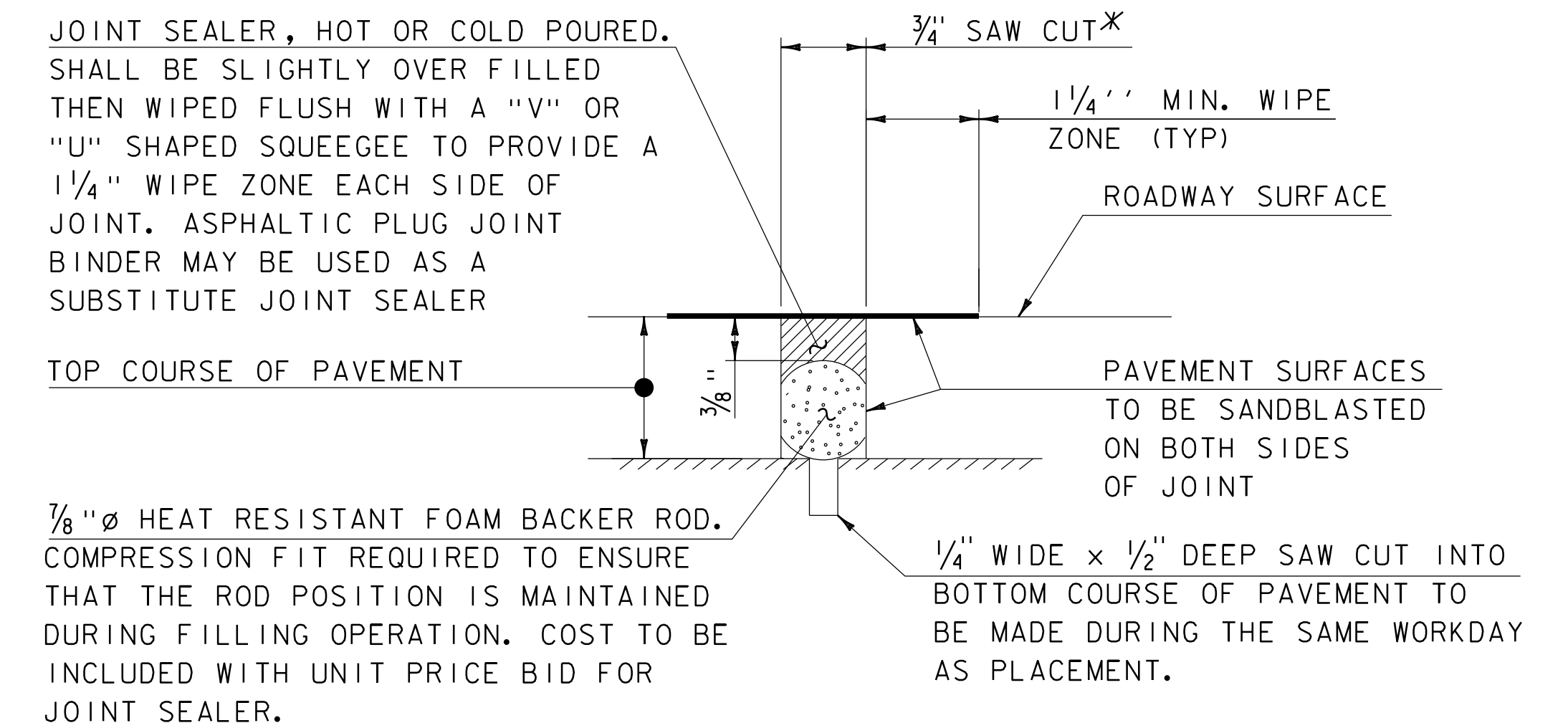
NOT TO SCALE



TYPICAL CHANNEL SECTION

(NOT TO SCALE)

*GRUBBING MATERIAL SHALL NOT BE PLACED WITHIN 3 FEET OF THE ABUTMENS UNDER THE BRIDGE. WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



SAWED PAVEMENT JOINT DETAIL

(NOT TO SCALE)

*JOINT IS TO BE LOCATED ACCURATELY BY STRING LINING, OR OTHER MEANS, PRIOR TO PAVING, SO THAT THE SAW CUTS WILL BE MADE DIRECTLY OVER THE END OF CONCRETE DECK. JOINT SHALL BE CUT DRY IN A SINGLE PASS AND BE SEALED WITHIN 24 HOURS OR PRIOR TO EXPOSURE TO TRAFFIC. JOINT SHALL BE CLEANED PRIOR TO APPLYING THE JOINT SEALER.

PROJECT NAME: WEYBRIDGE-NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552typ.dgn
 PROJECT LEADER: C.W. CARLSON
 DESIGNED BY: D. PETERSON
 TYPICALS & DETAILS

PLOT DATE: 15-NOV-2016
 DRAWN BY: M. LONGSTREET
 CHECKED BY: D. PETERSON
 SHEET 4 OF 45

GENERAL INFORMATION

SYMBOLGY LEGEND NOTE

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

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

POINT CODE	DESCRIPTION
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
HWY	HIGHWAY EASEMENT
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
▣	BNDNS BOUND TO BE SET
●	IPNS IRON PIN SET
⊙	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 VALUE
⊕	H TREE HARDWOOD
△	HCTRL CONTROL HORIZONTAL
△	HVCTRL CONTROL HORIZ. & VERTICAL
◇	HYD HYDRANT
●	IP IRON PIN
●	IPIPE IRON PIPE
⊕	LI LIGHT - STREET OR YARD
⊕	MB MAILBOX
○	MH MANHOLE (MH)
○	MM MILE MARKER
○	PM PARKING METER
○	PMK PROJECT MARKER
○	POST POST STONE/WOOD
⊕	RRSIG RAILROAD SIGNAL
⊕	RRSL RAILROAD SWITCH LEVER
⊕	S TREE SOFTWOOD
⊕	SAT SATELLITE DISH
⊕	SHRUB SHRUB
⊕	SIGN SIGN
⊕	STUMP STUMP
⊕	TEL TELEPHONE POLE
○	TIE TIE
⊕	TSIGN SIGN W/DOUBLE POST
⊕	VCTRL CONTROL VERTICAL
○	WELL WELL
×	WSO WATER SHUT OFF

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

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

PROJECT CONSTRUCTION FEATURES

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

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

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

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

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

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLGY

**ENVIRONMENTAL RESOURCES**

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

**ARCHEOLOGICAL & HISTORIC**

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

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

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

PROJECT NAME: WEYBRIDGE-NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552xs.dgn  
PROJECT LEADER: C.W. CARLSON  
DESIGNED BY: D. PETERSON  
CONVENTIONAL SYMBOLGY

PLOT DATE: 15-NOV-2016  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 5 OF 45

GPS CONTROL POINTS

HVCTRL # 1  
 STANDARD DISK STAMPED  
 Chalker Az Mk  
 N = 580550.5810  
 E = 1444341.9110  
 ELEV. = 201.246

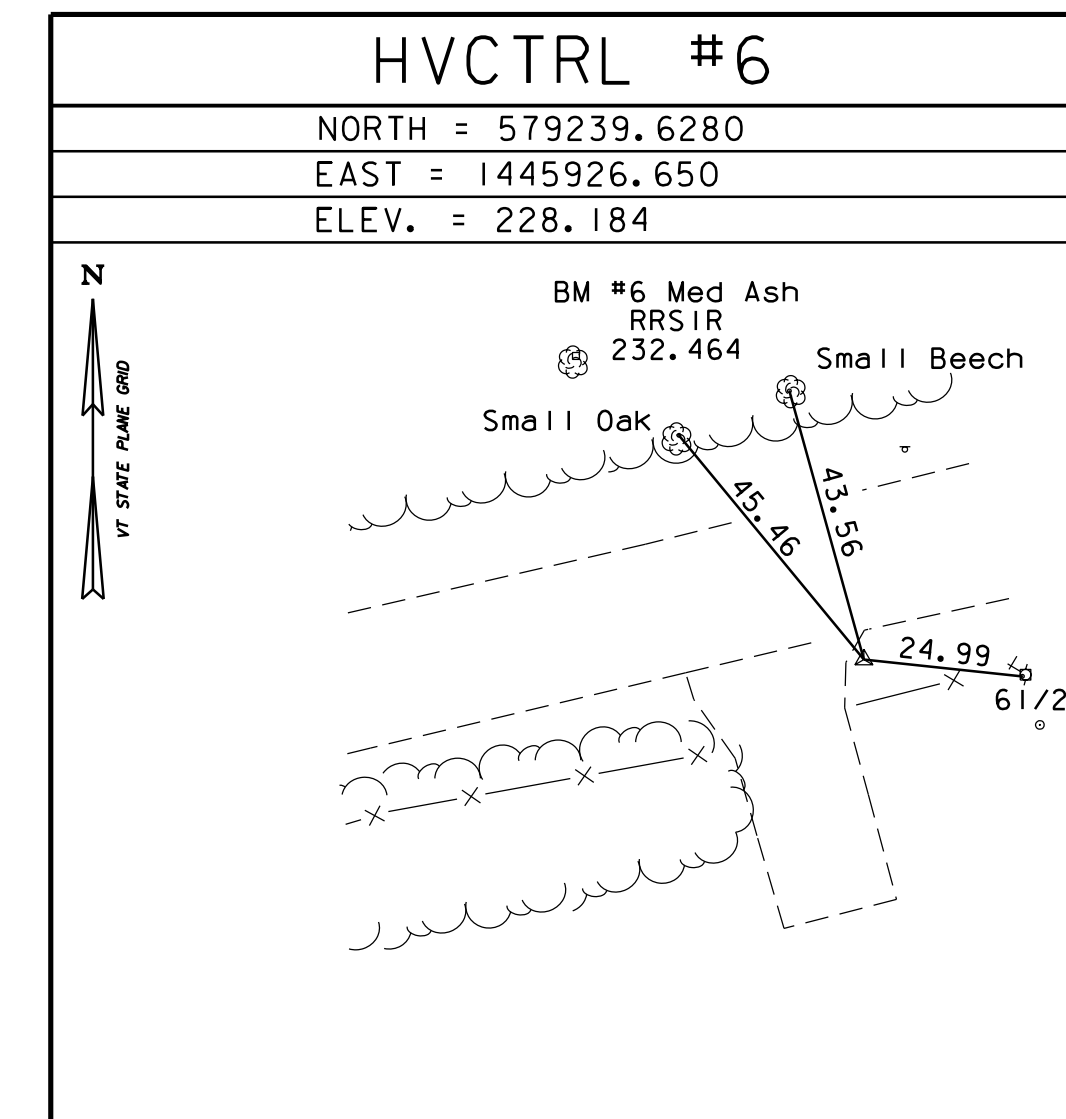
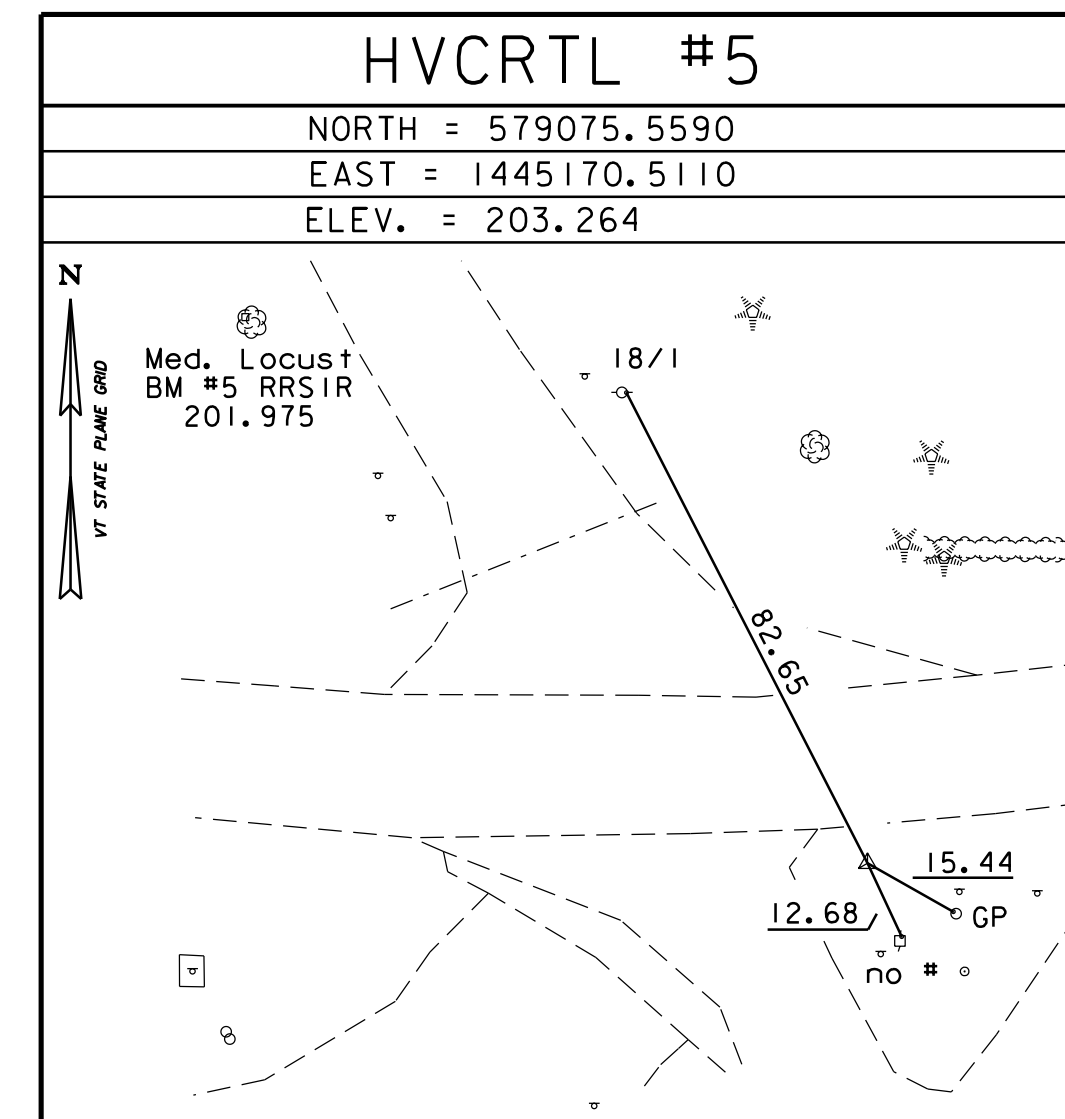
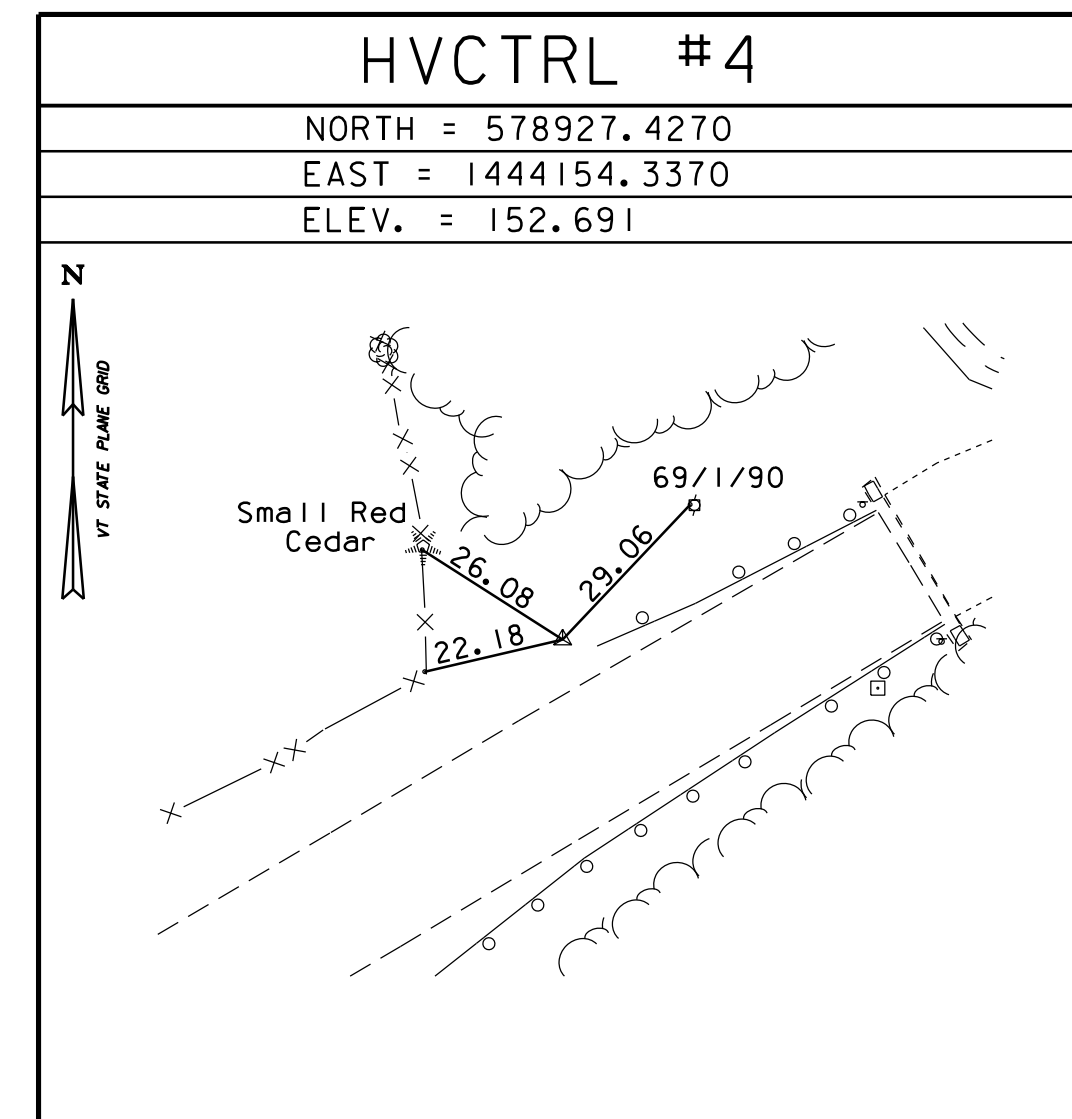
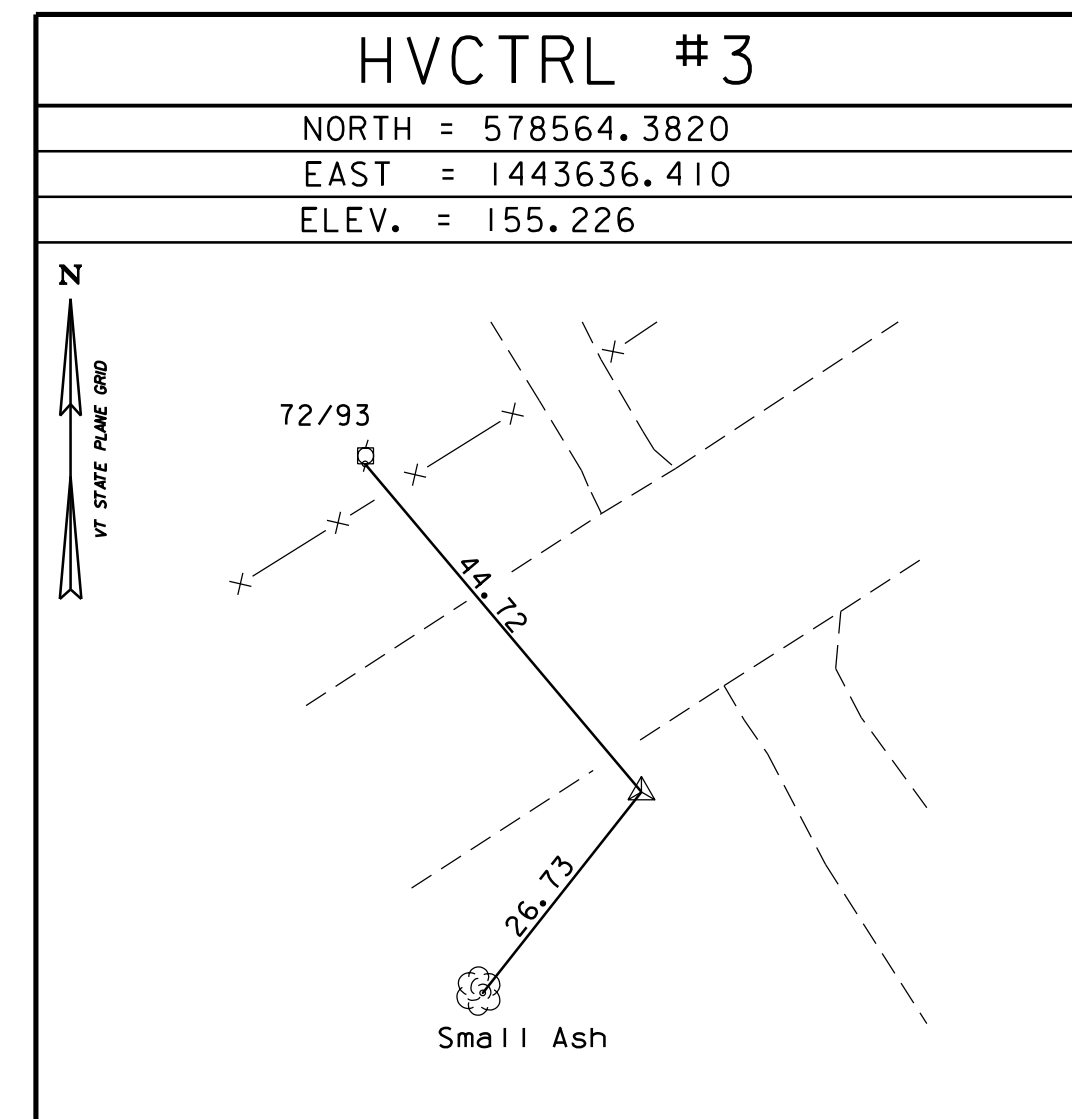
HVCTRL # 2  
 STANDARD DISK STAMPED  
 Chalker  
 N = 578921.0470  
 E = 1444009.969  
 ELEV. = 157.939

To reach from the intersection of VT routes 17 and 23 go east along route 17 for 0.4 mi to the intersection of Hallock Road left and Quaker Village Road right. Turn left and go north along Hallock Road for 0.3 mi to an old concrete barn foundation on the left and the site of the mark on the left, set in the top of the most southernly of two concrete pads in the foundation structure. It is about opposite a 2 1/2 story barn on the right. It is 37.1 ft west of and about level with the centerline of Hallock Road, 134.5 ft south of a pole no. 3002/5-1, 4.9 ft northwest of the southeast corner of the concrete pad, 4.9 ft southwest of the northeast corner of the concrete pad, and 39.4 ft north northwest of a fiberglass witness post at a wire fence corner.

To reach from the intersection of VT routes 17 and 23 go east along route 17 for 0.15 mi to the site of the mark on the left, on a small rise, just east of a field drive. The mark is set flush with ground surface in the top of a massive rock outcrop. It is 86.0 ft north of and about 6.6 ft higher than the centerline of route 17, 50 ft east of and about 10 ft higher than the centerline of the field drive, 131.2 ft southeast of the southeast corner of a equipment barn, 49 ft west northwest of a 18 in. oak, and 57 ft north of a fiberglass witness post in an east-west wire fenceline.

- * DESCRIPTION PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT
- * RECOVERED 8-26-14 LGO, HAM, GAH

TRAVERSE TIES



* MAIN TRAVERSE COMPLETED 1/17/01 by L. Orvis (P.C) & J. Hulett

ALIGNMENT TIES

NORTH =
EAST =

NORTH =
EAST =

NORTH =
EAST =

NORTH =
EAST =

DATUM  
 VERTICAL NAVD 88  
 HORIZONTAL NAD 83 (96)  
 ADJUSTMENT none

PROJECT NAME: WEYBRIDGE  
 PROJECT NUMBER: BHF 032-1(19)  
 FILE NAME: x12b552+i.dgn  
 PROJECT LEADER: C.W. CARLSON  
 DESIGNED BY: VTRANS  
 TIE SHEET  
 PLOT DATE: 15-NOV-2016  
 DRAWN BY: G. HITCHCOCK  
 CHECKED BY: P. BEYOR  
 SHEET 6 OF 45

REMOVAL AND DISPOSAL OF GUARDRAIL  
 VT17 STA 103+11 - STA 103+25 RT

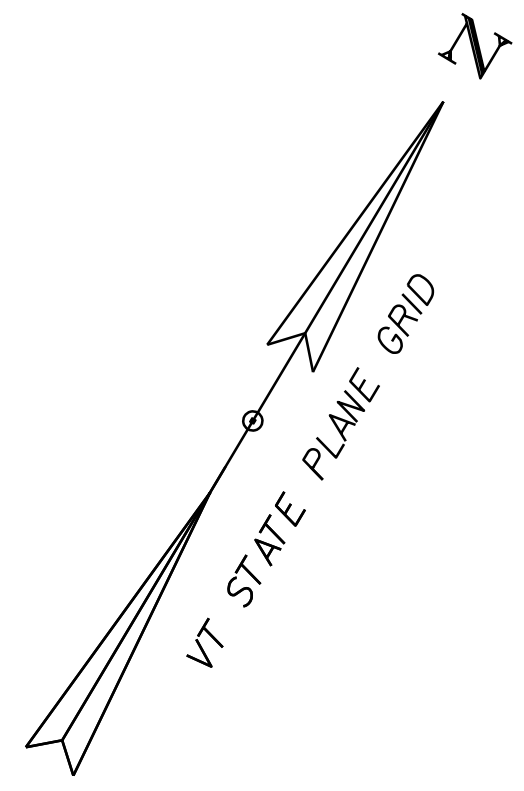
HEAVY DUTY STEEL BEAM GUARDRAIL,  
 GALVANIZED W/ 8 FT POST  
 VT17 STA 103+08 - STA 103+25 RT

ANCHOR FOR STEEL BEAM RAIL  
 VT17 STA 103+18.9 RT

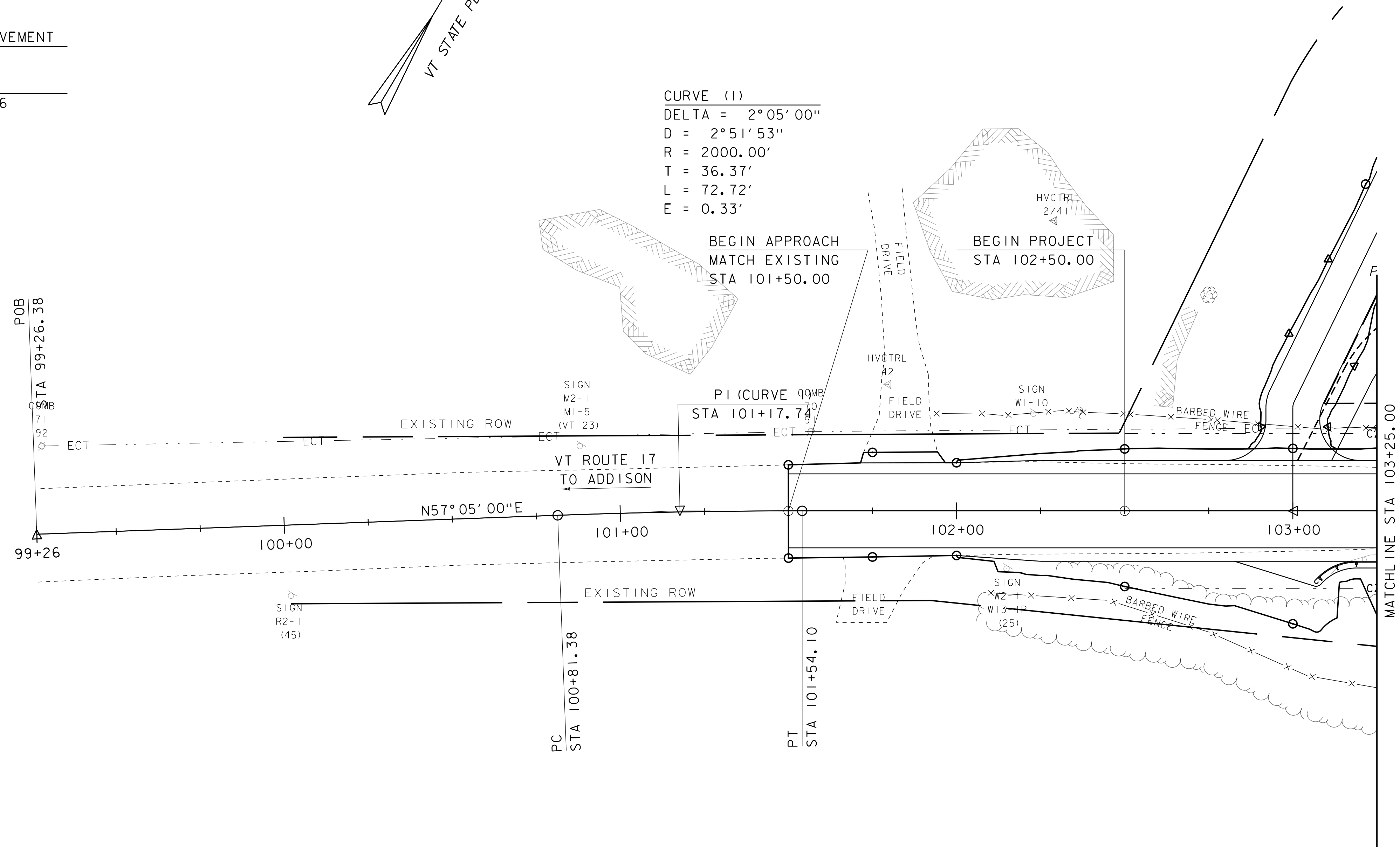
DELINEATOR WITH STEEL POST  
 VT17 STA 103+19.9 RT (BLUE)

COLD PLANING, BITUMINOUS PAVEMENT  
 VT17 STA 101+50 - 102+00

CONSTRUCT PAVED DRIVE  
 VT17 STA 101+71.5 - 101+96.6



CURVE (1)  
 DELTA = 2°05'00"  
 D = 2°51'53"  
 R = 2000.00'  
 T = 36.37'  
 L = 72.72'  
 E = 0.33'



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

PROJECT NAME: WEYBRIDGE-NEW HAVEN  
 PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552bdr.dgn  
 PROJECT LEADER: C.W. CARLSON  
 DESIGNED BY: M. LONGSTREET  
 LAYOUT SHEET 1

PLOT DATE: 15-NOV-2016  
 DRAWN BY: M. LONGSTREET  
 CHECKED BY: D. PETERSON  
 SHEET 7 OF 45

**REMOVAL AND DISPOSAL OF GUARDRAIL**

VT17 STA 103+61 - STA 103+96 LT  
 VT17 STA 106+42 - STA 107+25 LT  
 VT17 STA 103+25 - STA 103+96 RT  
 VT17 STA 106+42 - STA 107+25 RT

**HEAVY DUTY STEEL BEAM GUARDRAIL, GALVANIZED W/ 8 FT POST**

VT17 STA 103+45 - STA 103+96 LT  
 VT17 STA 106+42 - STA 107+25 LT  
 VT17 STA 103+25 - STA 103+96 RT  
 VT17 STA 106+42 - STA 107+25 RT

**ANCHOR FOR STEEL BEAM RAIL**

VT17 STA 103+56.4 LT

**DELINEATOR WITH STEEL POST**

VT17 STA 103+56.4 LT (GREEN)

**BRIDGE RAILING GALVANIZED 2 RAIL BOX BEAM**

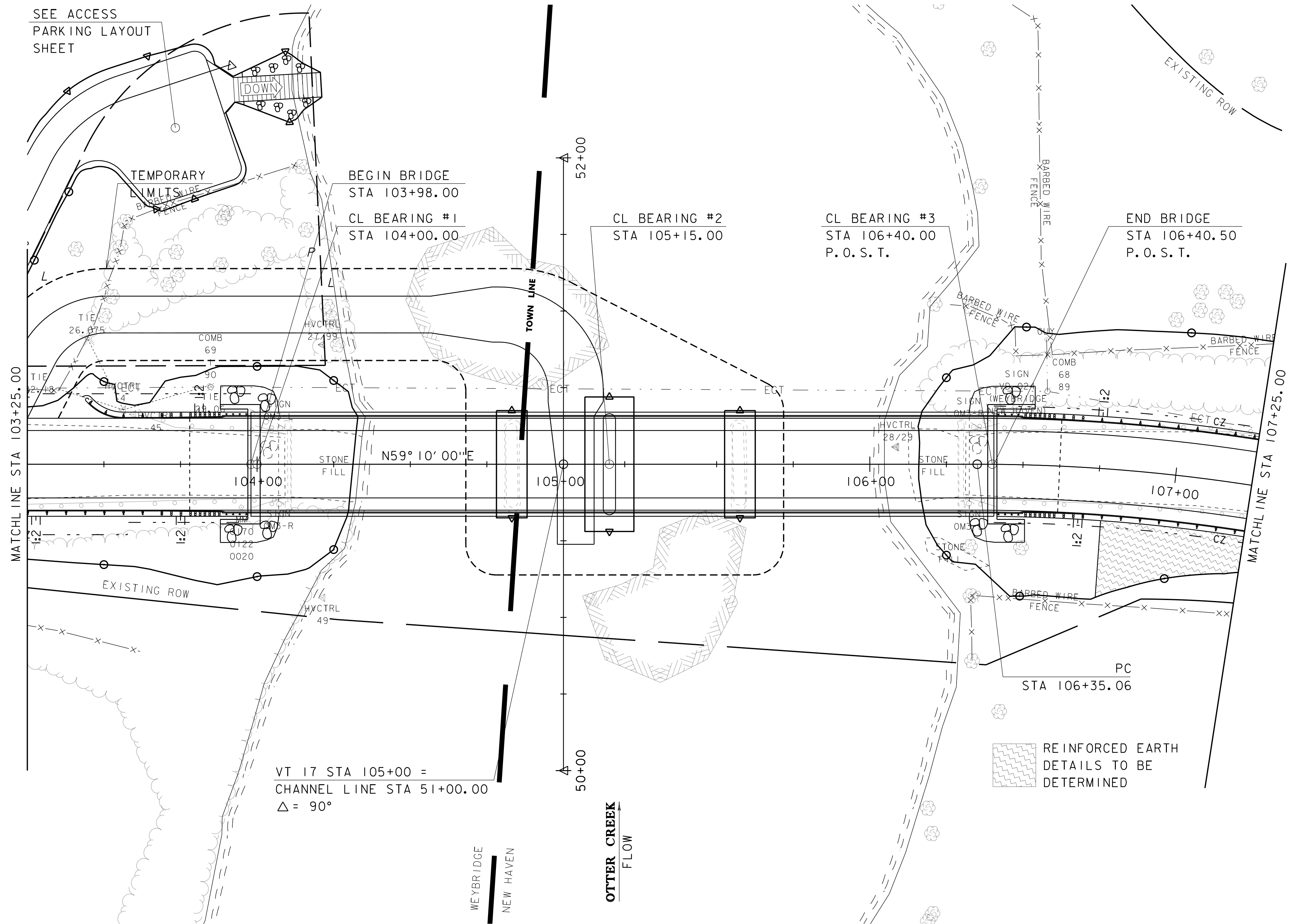
VT17 STA 103+98.0 - STA 106+40.0 LT  
 VT17 STA 103+98.0 - STA 106+40.0 RT

**GUARDRAIL APPROACH SECTION, GALVANIZED 2 RAIL BOX BEAM**

VT17 STA 103+68.9 - STA 103+98.0 LT  
 VT17 STA 103+68.9 - STA 103+98.0 RT  
 VT17 STA 106+40.4 - STA 106+68.7 LT  
 VT17 STA 106+40.6 - STA 106+70.5 RT

**CAST-IN-PLACE CONCRETE CURB, TYPE B**

VT17 STA 103+58.3 - STA 103+98.0 LT  
 VT17 STA 103+58.3 - STA 103+98.0 RT  
 VT17 STA 106+40.4 - STA 106+79.3 LT  
 VT17 STA 106+40.6 - STA 106+81.7 RT



PROJECT NAME: WYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552bdr.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
LAYOUT SHEET 2	SHEET 8 OF 45



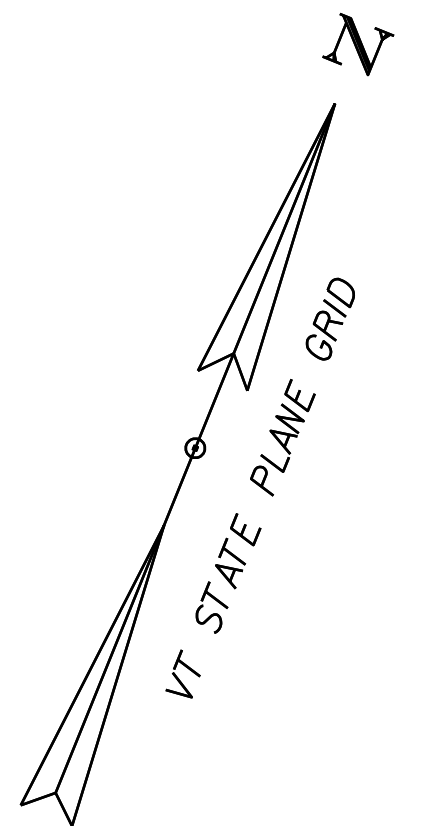
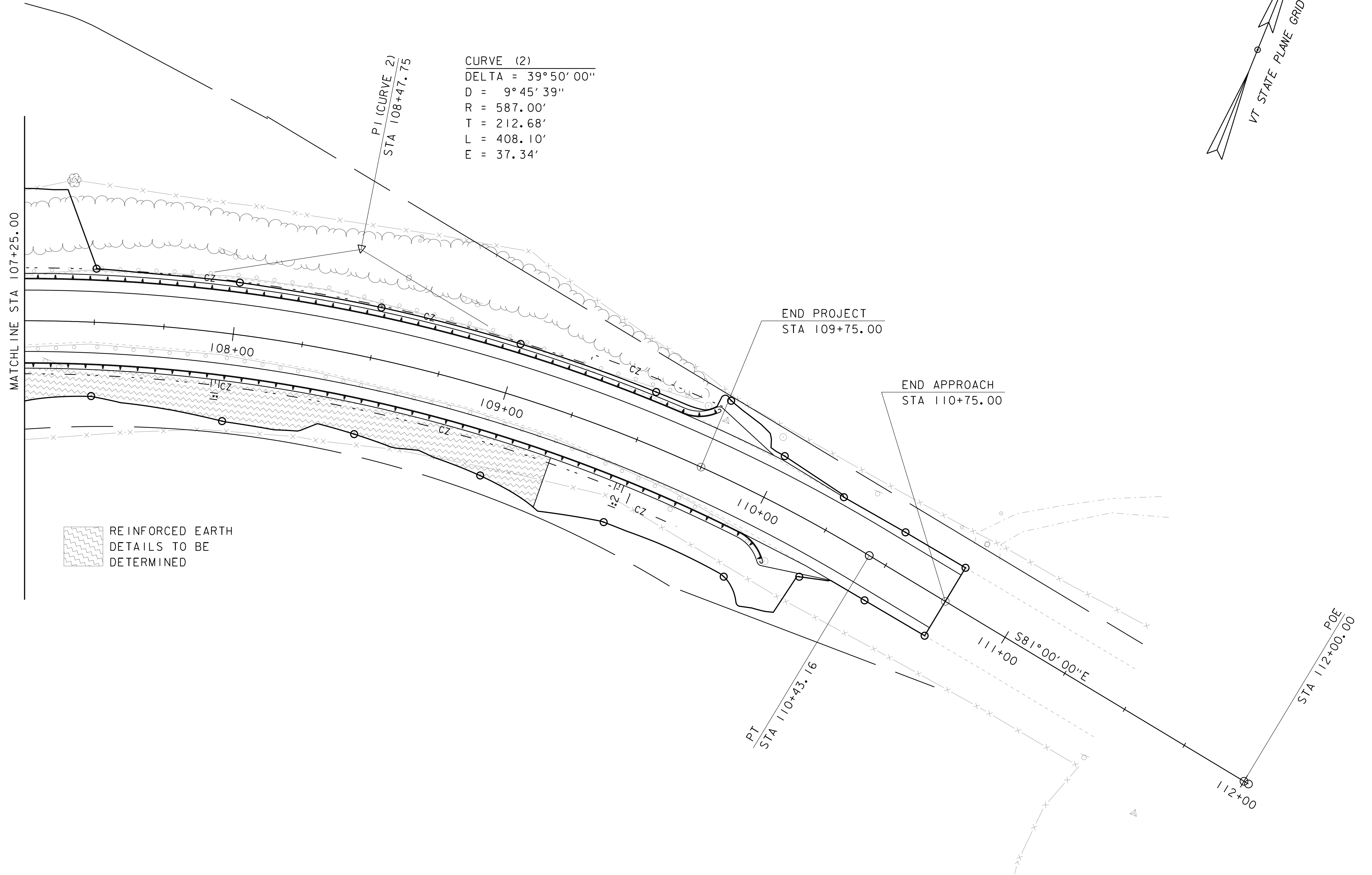
REMOVAL AND DISPOSAL OF GUARDRAIL  
 VT17 STA 107+25.0 - STA 109+66.8 LT  
 VT17 STA 107+25.0 - STA 110+08.9 RT

HEAVY DUTY STEEL BEAM GUARDRAIL,  
 GALVANIZED W/ 8 FT POST  
 VT17 STA 107+25.0 - STA 109+72.2 RT  
 VT17 STA 107+25.0 - STA 110+09.3 LT

ANCHOR FOR STEEL BEAM RAIL  
 VT17 STA 109+61.3 LT  
 VT17 STA 109+97.6 RT

DELINEATOR WITH STEEL POST  
 VT17 STA 109+61.3 LT (BLUE)  
 VT17 STA 109+97.6 RT (GREEN)

COLD PLANING, BITUMINOUS PAVEMENT  
 VT17 STA 110+25 - 110+75



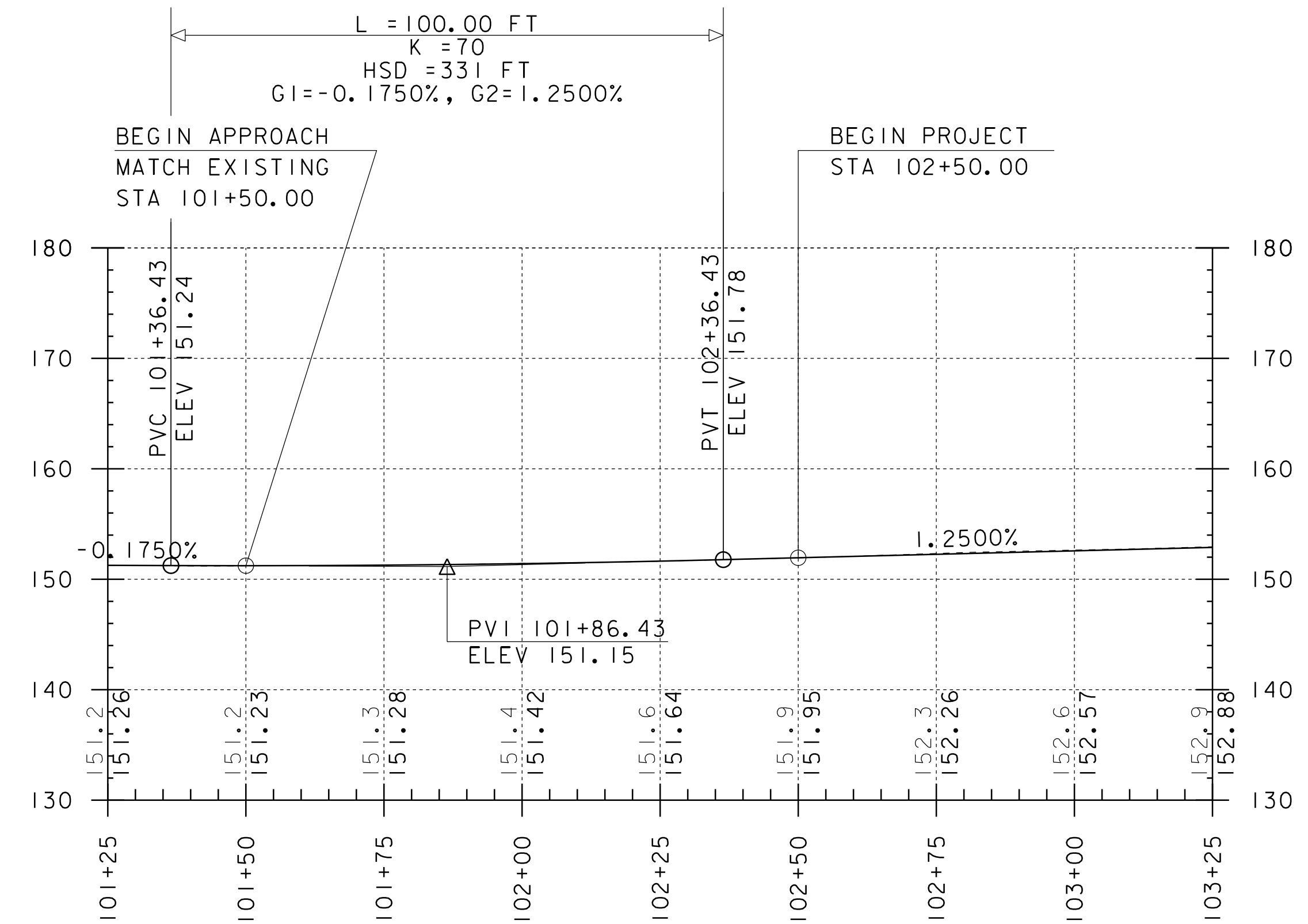
SCALE 1" = 20' - 0"  
 20 0 20

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552border.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
LAYOUT SHEET 3	SHEET 9 OF 45

NOTE:

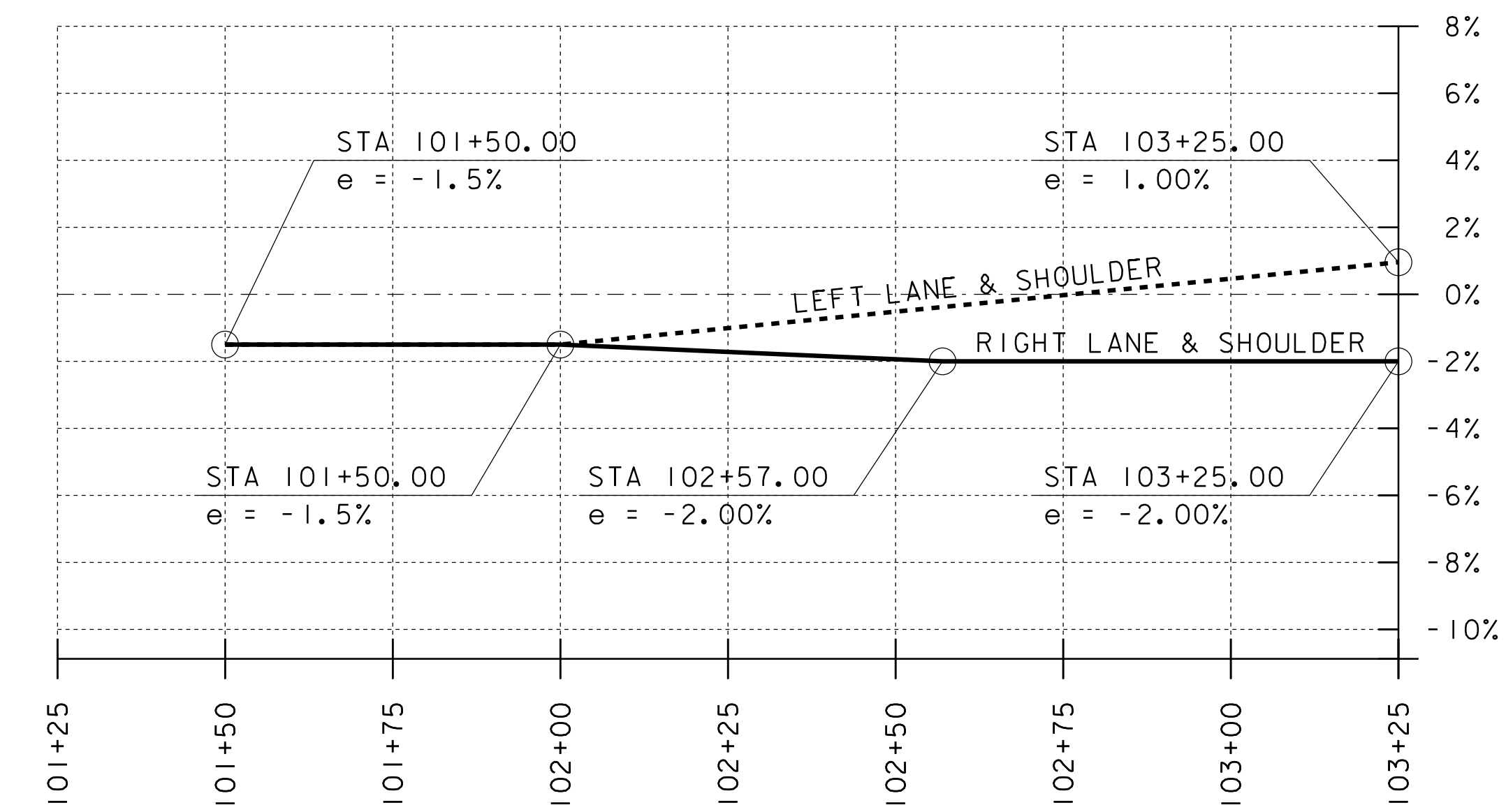
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE  
EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE  
FINISH GRADES ALONG PROPOSED CENTERLINE.



VT 17 PROFILE 1

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



BANKING DIAGRAM 1

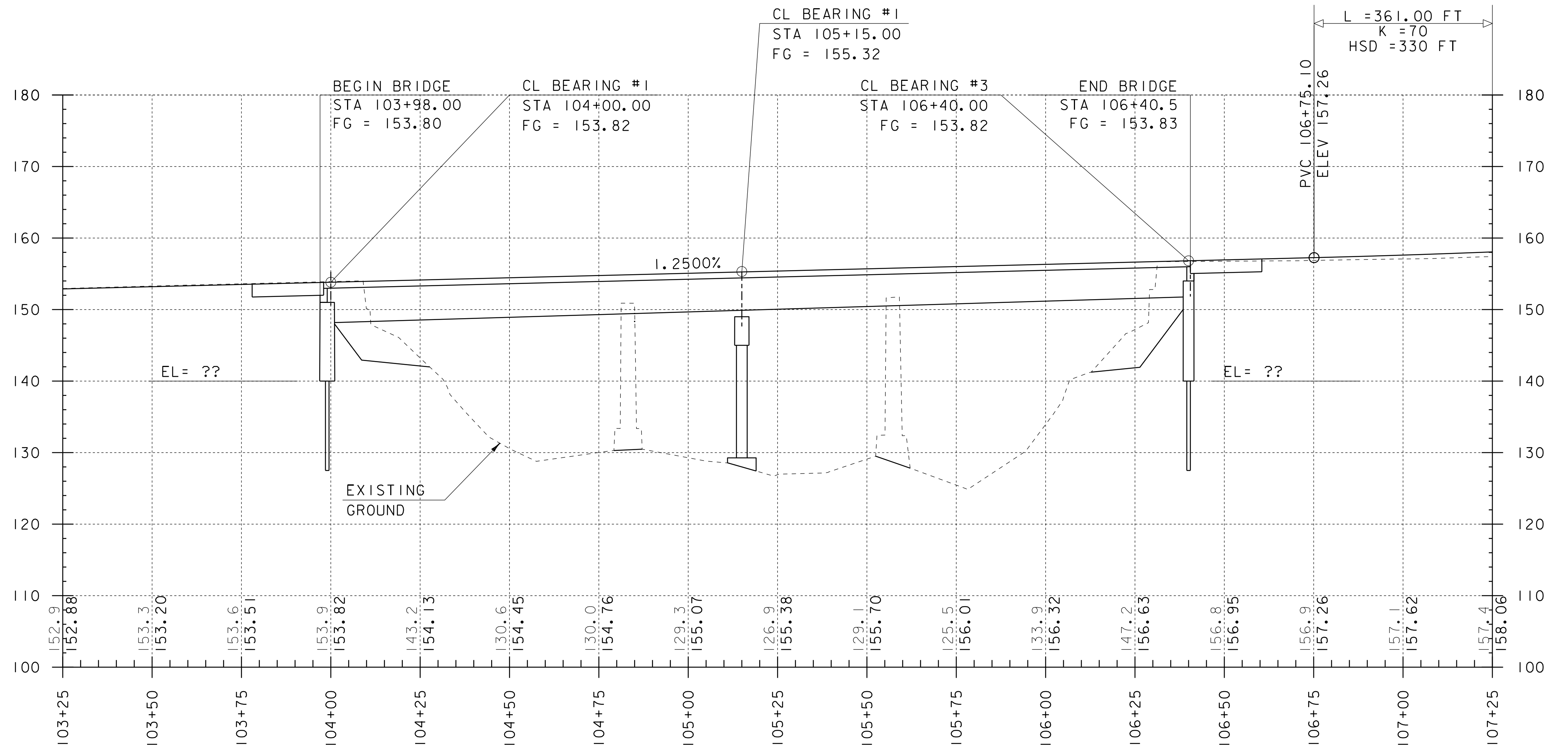
SCALE: HORIZONTAL 1"=20'-0"  
VERTICAL 1"=4%

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PROFILE & BANKING 1	SHEET 10 OF 45

NOTE:

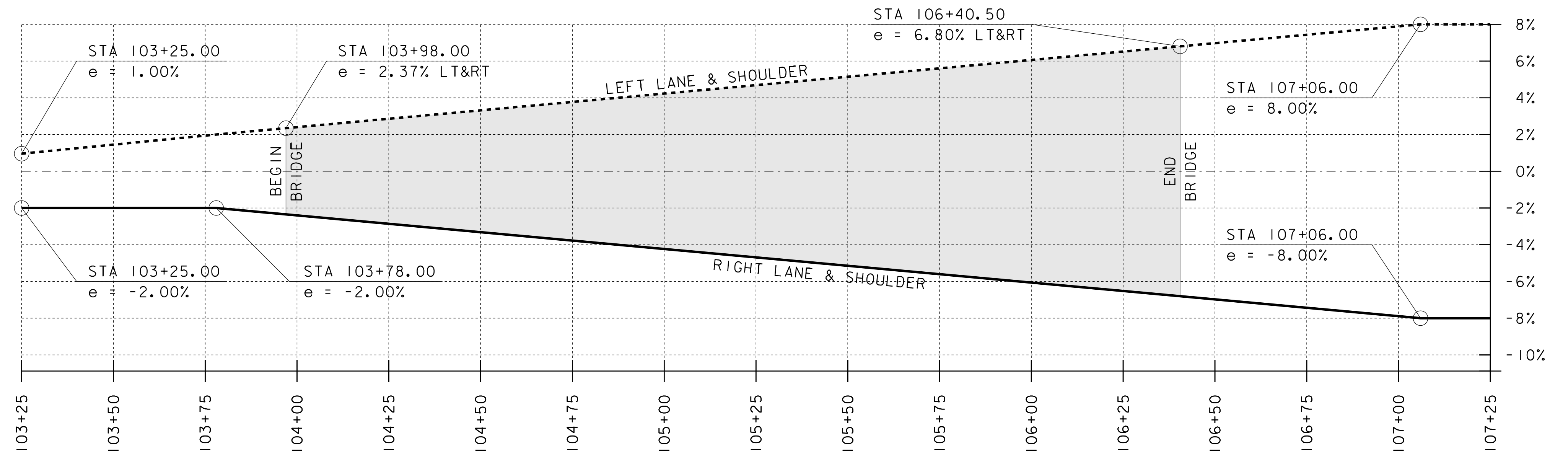
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.



VT 17 PROFILE 2

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



BANKING DIAGRAM 2

SCALE: HORIZONTAL 1"=20'-0"  
VERTICAL 1"=4%

PROJECT NAME: WEYBRIDGE-NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

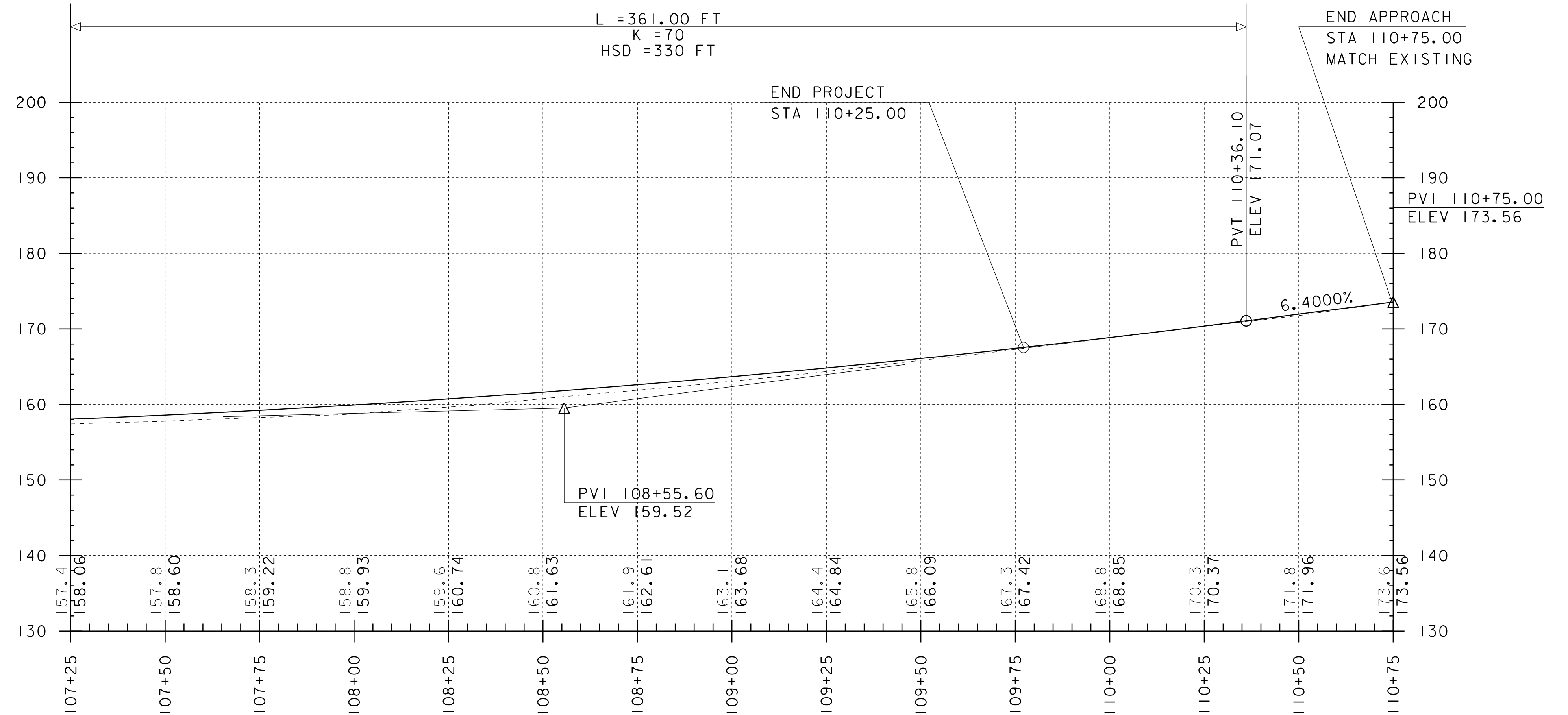
FILE NAME: sl2b552xs.dgn  
PROJECT LEADER: C.W. CARLSON  
DESIGNED BY: D. PETERSON  
PROFILE & BANKING 2

PLOT DATE: 15-NOV-2016  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 11 OF 45

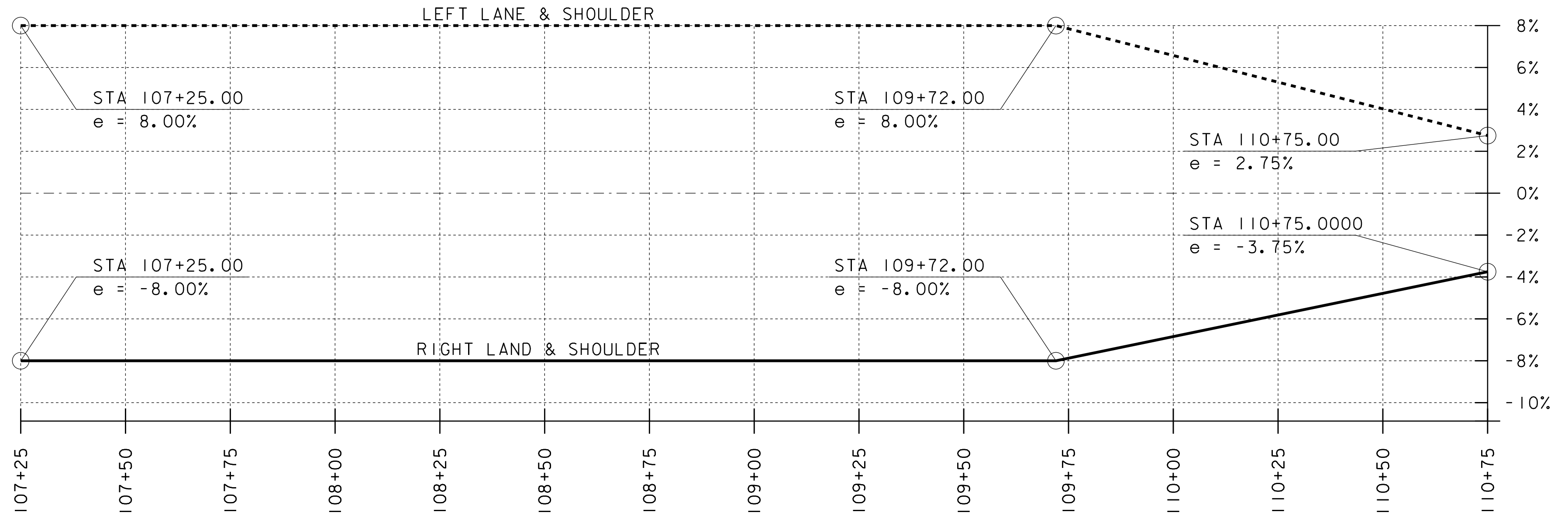
NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.

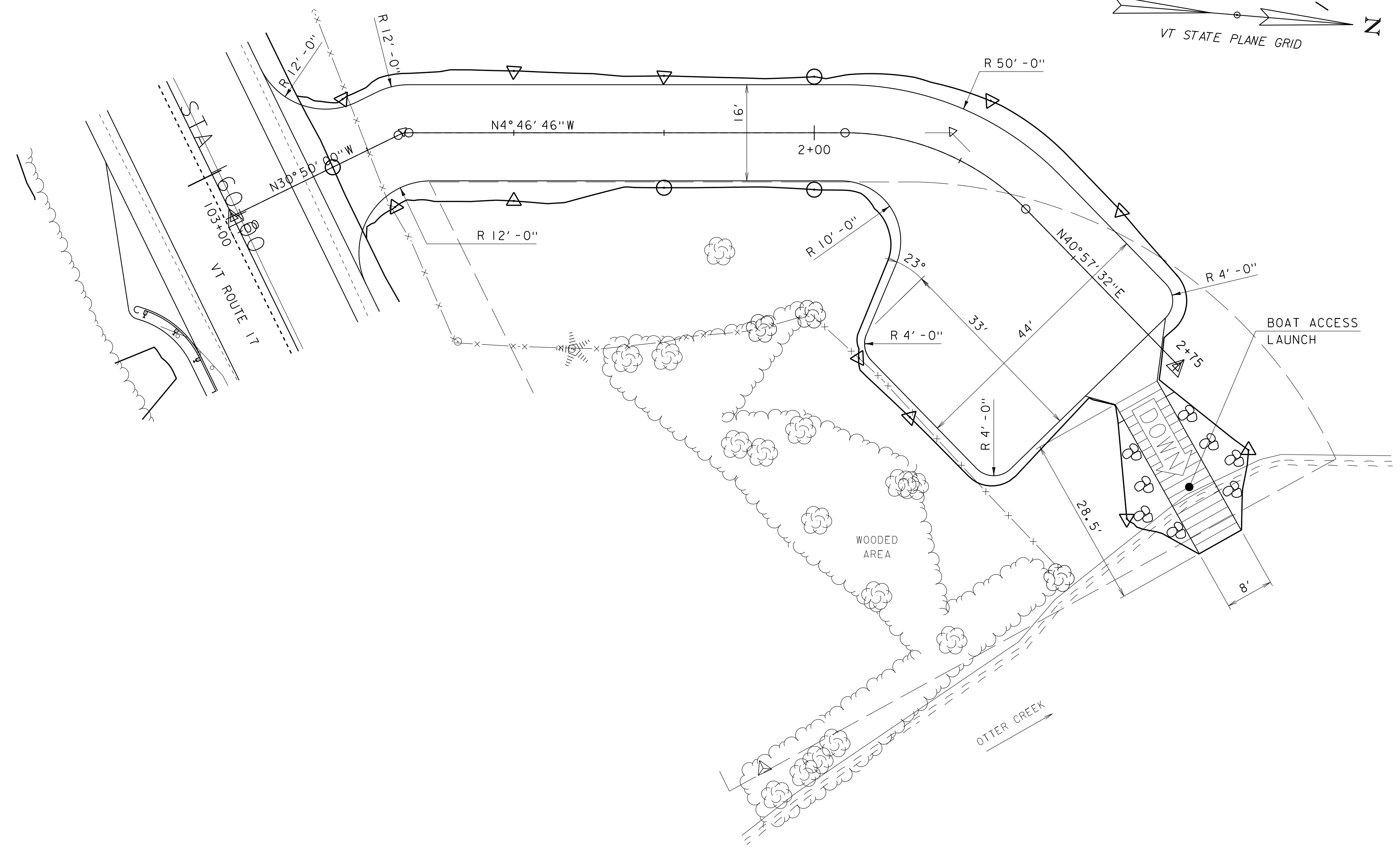
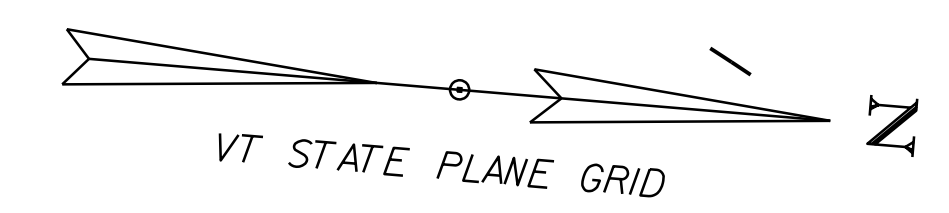


**VT 17 PROFILE 3**  
 SCALE: HORIZONTAL 1"=20'-0"  
 VERTICAL 1"=10'-0"



**BANKING DIAGRAM 3**  
 SCALE: HORIZONTAL 1"=20'-0"  
 VERTICAL 1"=4%

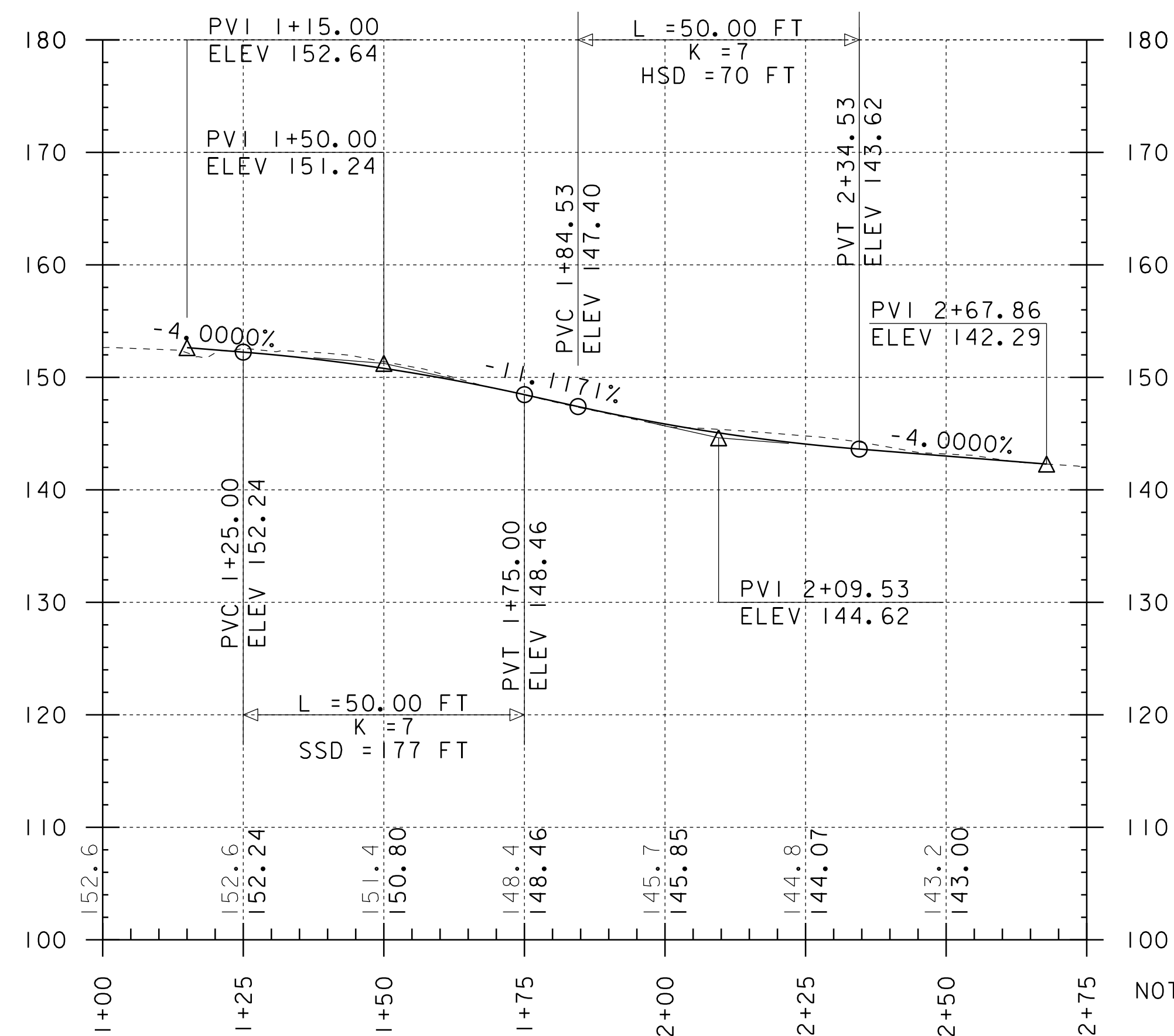
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PROFILE & BANKING 3	SHEET 12 OF 45



**ACCESS PARKING LOT LAYOUT**  
SCALE: 1" = 10' - 0"

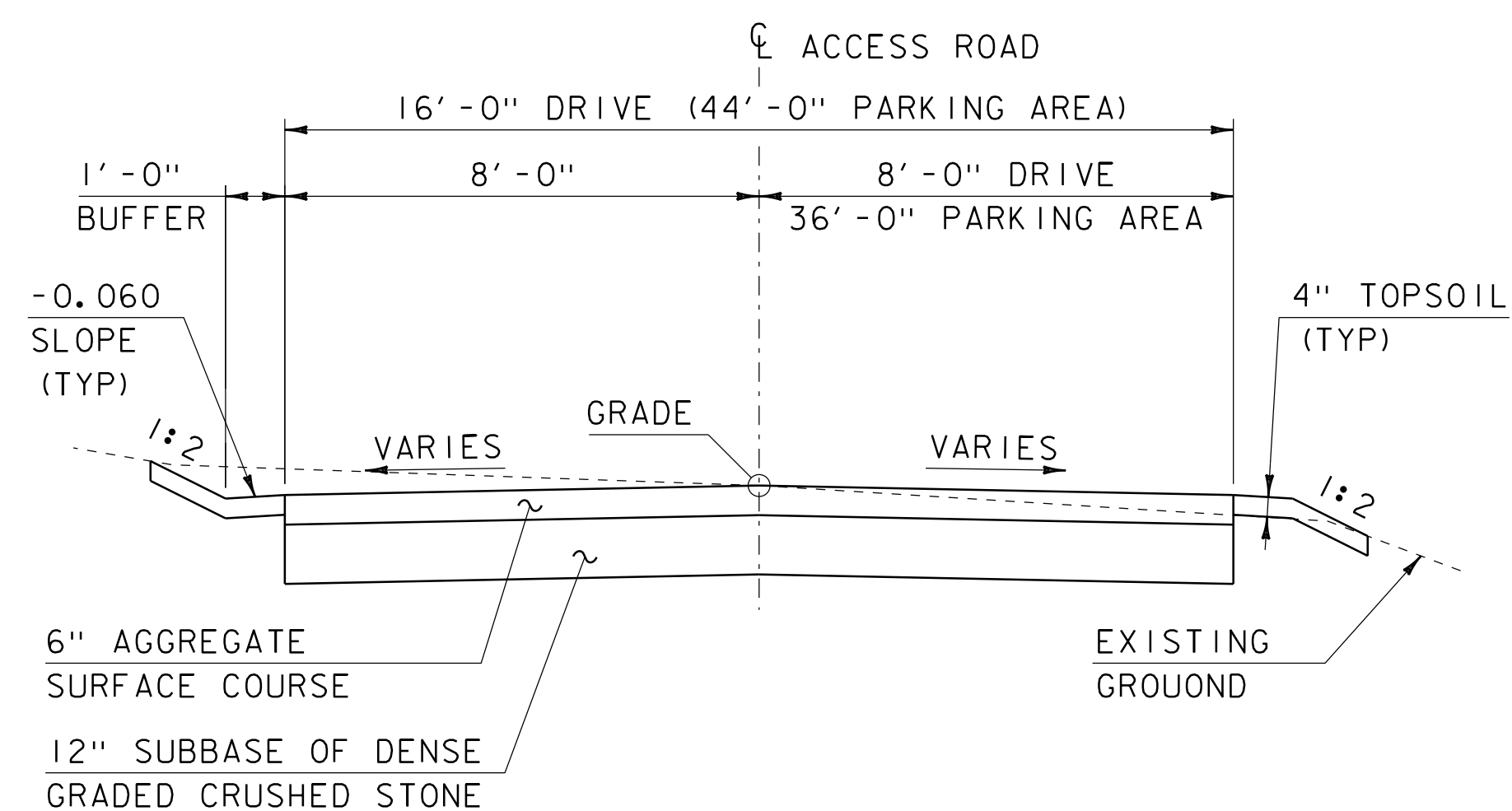
CONTROL LINE DATA - ParkingLot											
POINT ID	BEARING	DISTANCE (FT)	NORTHING (FT)	EASTING (FT)	STATIONS			DELTA	R	L	T
900	N 30° 50' 00.00" W	30.70	578883.30	1444115.08		1+00.00					
	N 4° 46' 45.96" W	73.53	578910.46	1444098.87	1+30.70		1+32.52	26° 03' 14.04"	4.00 FT	1.82 FT	0.93 FT
	N 40° 57' 32.09" E	54.06	579001.38	1444091.27	2+05.12		2+38.65	45° 44' 18.06"	42.00 FT	33.53 FT	17.71 FT
905			579042.21	1444126.71		2+75.00					

PROJECT NAME: WEYBRIDGE-NEW HAVEN  
 PROJECT NUMBER: BF 032-1(19)  
 FILE NAME: sl2b552rivAccess.dgn  
 PROJECT LEADER: C.W. CARLSON  
 DESIGNED BY: D. PETERSON  
 ACCESS & PARKING LAYOUT  
 PLOT DATE: 15-NOV-2016  
 DRAWN BY: M. LONGSTREET  
 CHECKED BY: D. PETERSON  
 SHEET 13 OF 45



**ACCESS PARKING LOT PROFILE**

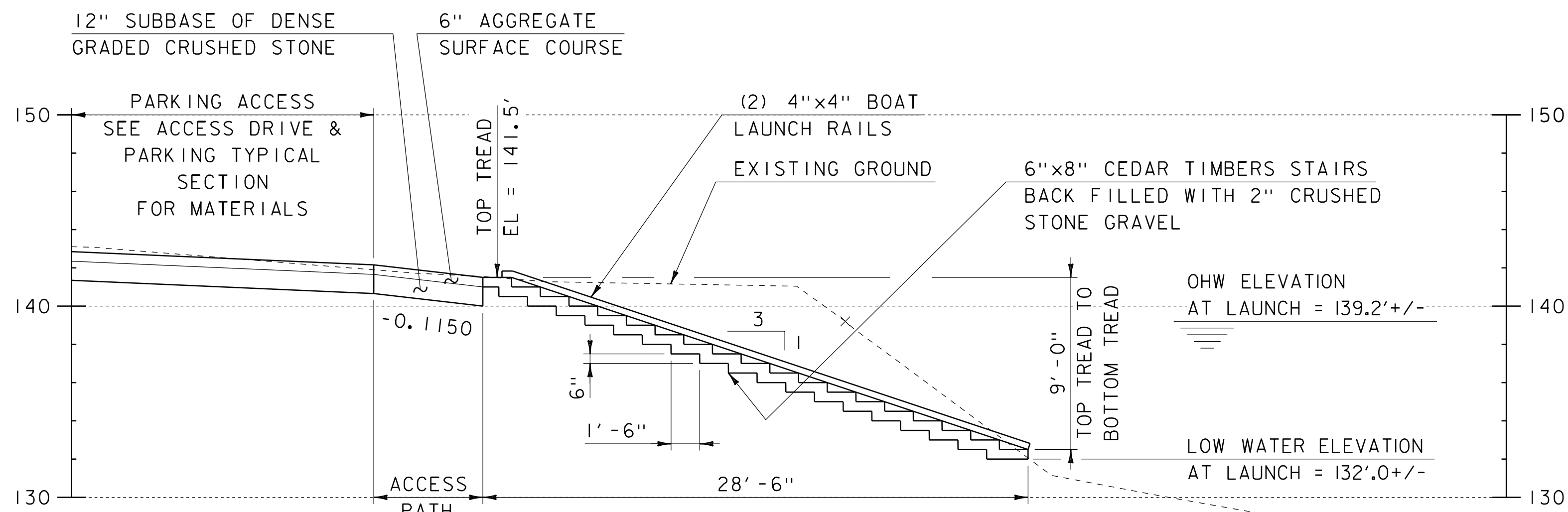
SCALE: HORIZONTAL 1"=20'-0"  
VERTICAL 1"=10'-0"



**ACCESS DRIVE & PARKING TYPICAL SECTION**

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

SEE ACCESS DRIVE CROSS SECTIONS FOR CROSS SLOPES OF DRIVE AND PARKING AREA.



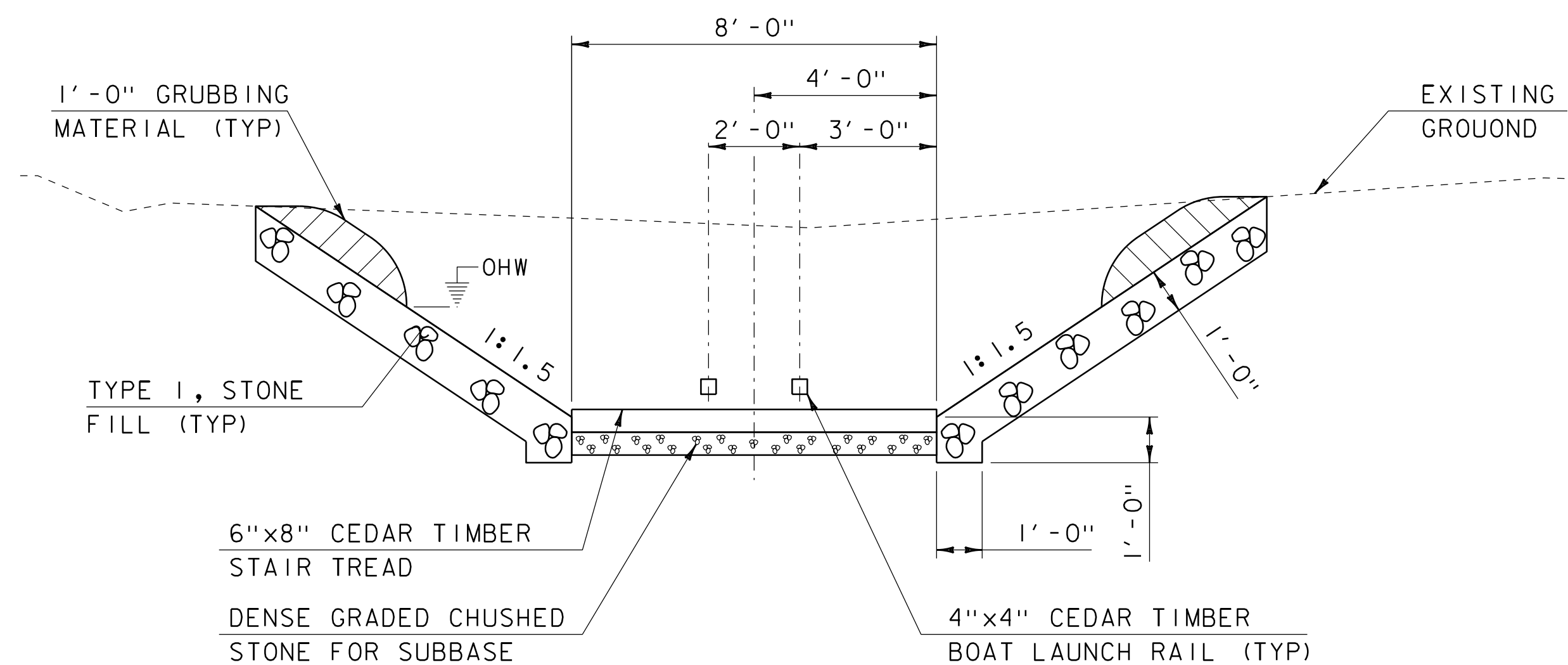
**RIVER ACCESS STAIR SECTION**

SCALE: HORIZONTAL 1"=5'-0"

NOTE:

ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

ELEVATIONS SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADES ALONG PROPOSED CENTERLINE.



**RIVER ACCESS STAIR TYPICAL SECTION**

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

PROJECT NAME: WEYBRIDGE-NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552xs.dgn  
PROJECT LEADER: C.W. CARLSON  
DESIGNED BY: D. PETERSON  
ACCESS & PARKING DETAILS

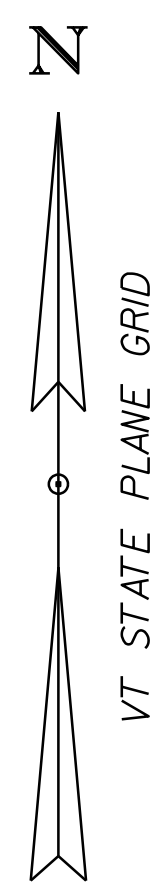
PLOT DATE: 15-NOV-2016  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 14 OF 45

PCMS

MESSAGES FOR PORTABLE  
CHANGEABLE  
MESSAGE SIGNS (PCMS)

MESSAGE 1	MESSAGE 2
<b>VT 17</b>	<b>**DATE**</b>
<b>BRIDGE</b>	<b>THRU</b>
<b>CLOSED</b>	<b>**DATE**</b>

SEE CONTRACT DOCUMENTS FOR  
CLOSURE DATES



PCMS

LOCATE 300FT +/-  
WEST OF 22A & VT17  
INTERSECTION ON VT17  
FACING EAST BOUND  
TRAFFIC

- 17ERT
- 17EL
- 17E
- 17ELT
- 17EL
- 17EL+TUS7
- 17ELT
- DA
- BCVT17
- ED17
- VT17
- 17ES+TUS7
- 17ES
- DA
- BCVT17

- BCVT17
- DA
- 17WRT
- 17WR
- 17W
- 17WL
- 17WLT
- 17ER
- 17ERT

VERGENNES  
FERRISBURGH

VT22A  
US7

17E  
17W

WALTHAM

PANTON

ADDISON

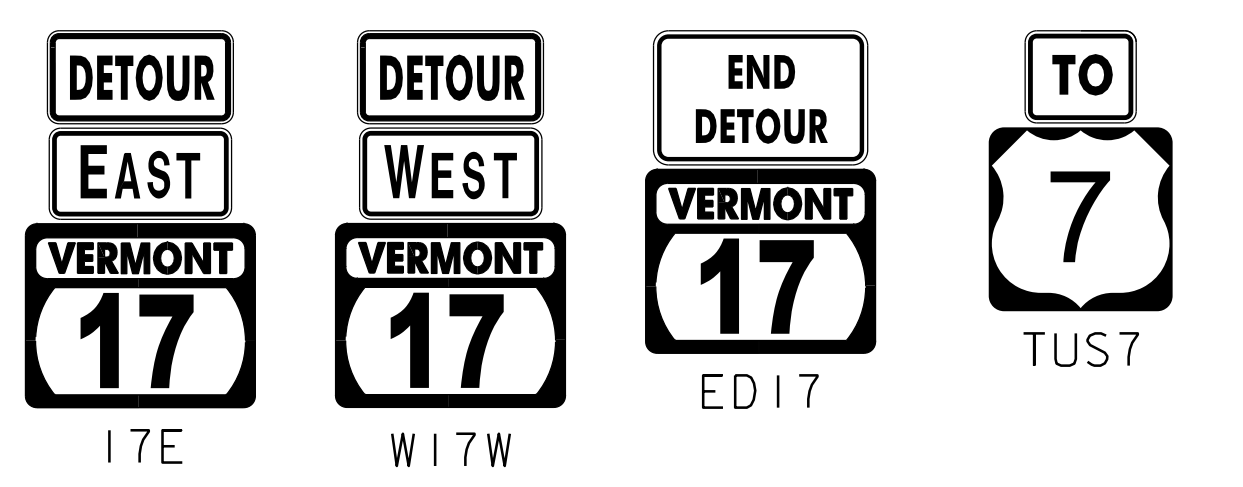
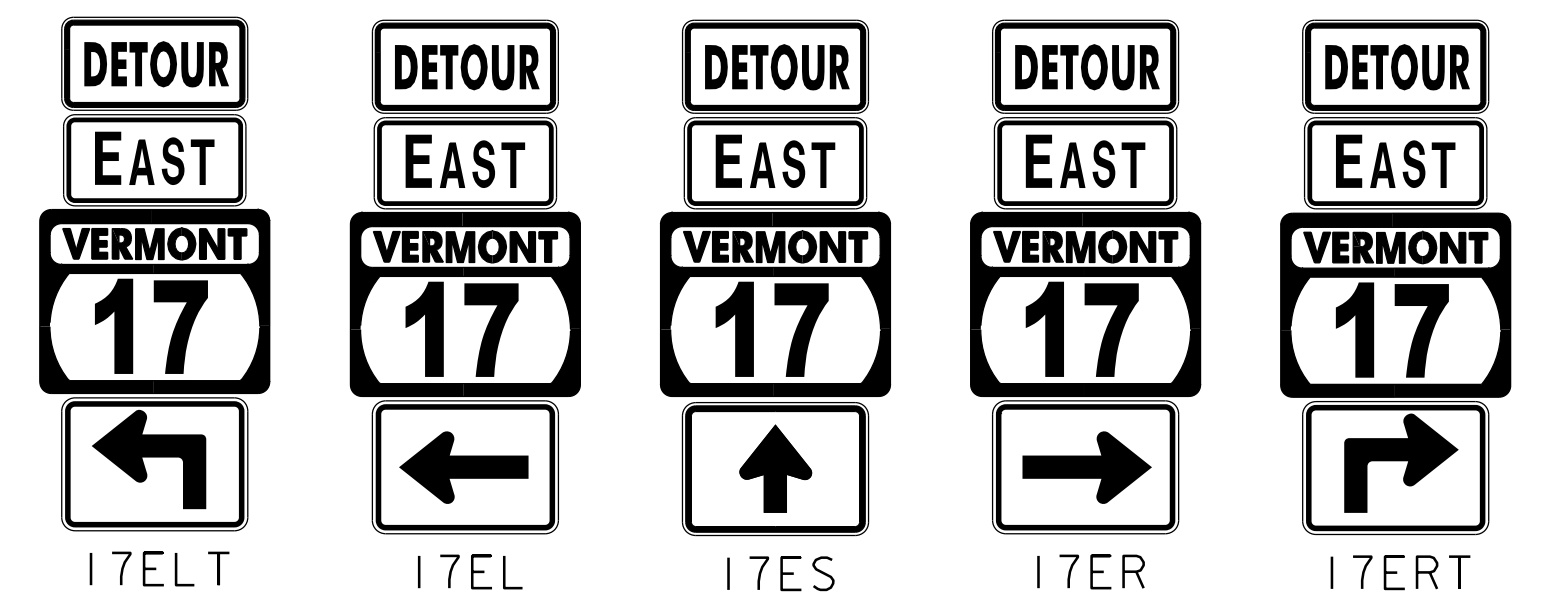
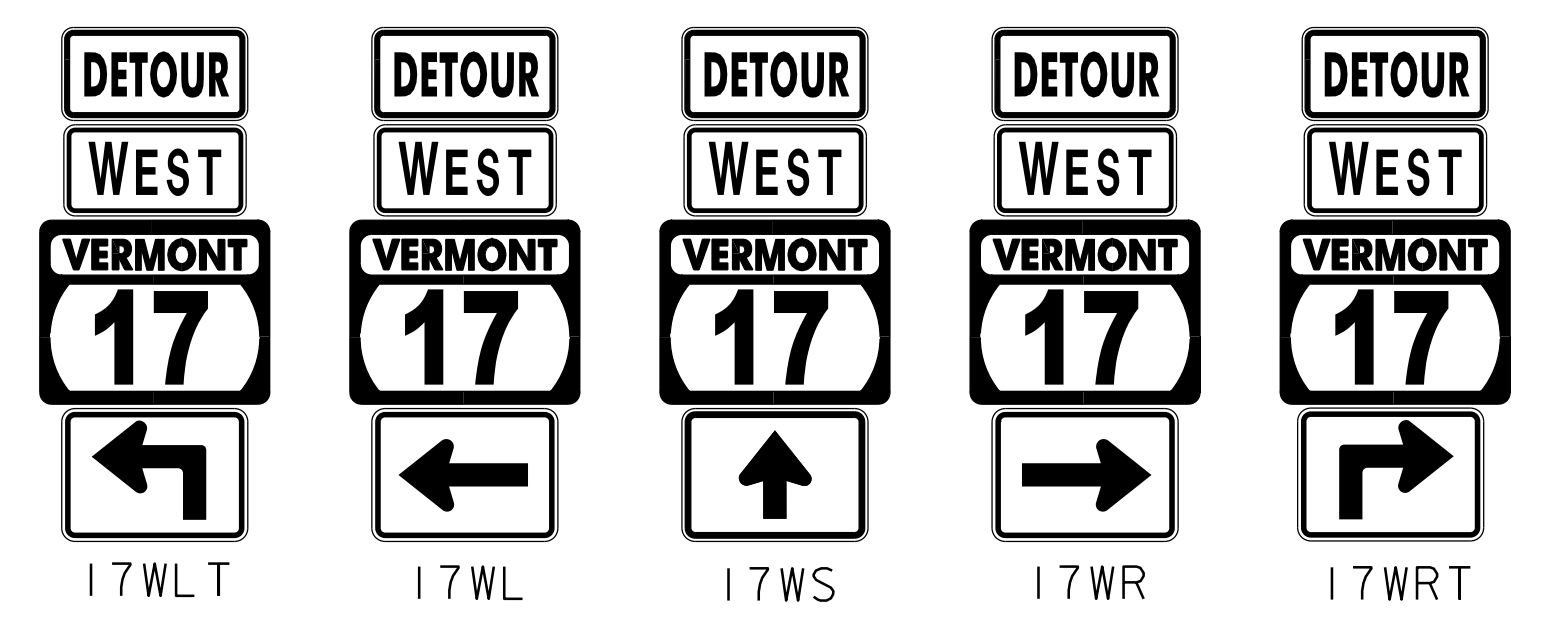
NEW HAVEN

WEYBRIDGE

**PROJECT LOCATION  
BRIDGE CLOSURE**

**BRIDGE CLOSED  
VT17 - OTTER CREEK RD  
WEYBRIDGE - NEW HAVEN**

BCVT17  
NOT TO SCALE



PCMS

LOCATE 500FT +/- EAST OF US7 & VT17  
INTERSECTION ON VT17 FACING WEST BOUND  
TRAFFIC

**SIGN PLACEMENT NOTES:**

- 1) ALL DETOUR SIGNS LEADING UP TO A DETOUR INTERSECTION ARE SPACED AT A 500FT INTERVAL.
- 2) DETOUR SIGNS AT THE INTERSECTION ARE PLACE WITHIN 50FT OF INTERSECTION.
- 3) BRIDGE CLOSED SIGNS ARE PLACED 500FT BEFORE THE DETOUR AHEAD SIGN.
- 4) PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED OFF THE EDGE OF THE ROADWAY, OUTSIDE THE CLEAR ZONE, BUT SHALL BE VISIBLE FROM THE ROADWAY. ANY VEGETATION THAT INTERFERES WITH VISIBILITY OF THE PCMS SHALL BE REMOVED. REMOVAL OF THE VEGETATION SHALL BE INCIDENTAL TO ITEM 641.15, "PORTABLE CHANGEABLE MESSAGE SIGN".



PROJECT NAME:	WEYBRIDGE-NEW HAVEN
PROJECT NUMBER:	BF 032-1(19)
FILE NAME:	sl2b552detour.dgn
PROJECT LEADER:	C.W. CARLSON
DESIGNED BY:	D. PETERSON
DETOUR PLAN	
PLOT DATE:	15-NOV-2016
DRAWN BY:	M. LONGSTREET
CHECKED BY:	D. PETERSON
SHEET	15 OF 45

**SOIL CLASSIFICATION**

**AASHTO**

- A1 Gravel and Sand
- A3 Fine Sand
- A2 Silty or Clayey Gravel and Sand
- A4 Silty Soil - Low Compressibility
- A5 Silty Soil - Highly Compressible
- A6 Clayey Soil - Low Compressibility
- A7 Clayey Soil - Highly Compressible

**ROCK QUALITY DESIGNATION**

R.Q.D. (%)	ROCK DESCRIPTION
<25	Very Poor
25 to 50	Poor
51 to 75	Fair
76 to 90	Good
>90	Excellent

**SHEAR STRENGTH**

UNDRAINED SHEAR STRENGTH IN P.S.F.	CONSISTENCY
<250	Very Soft
250-500	Soft
500-1000	Med. Stiff
1000-2000	Stiff
2000-4000	Very Stiff
>4000	Hard

**CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY**

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

**COMMONLY USED SYMBOLS**

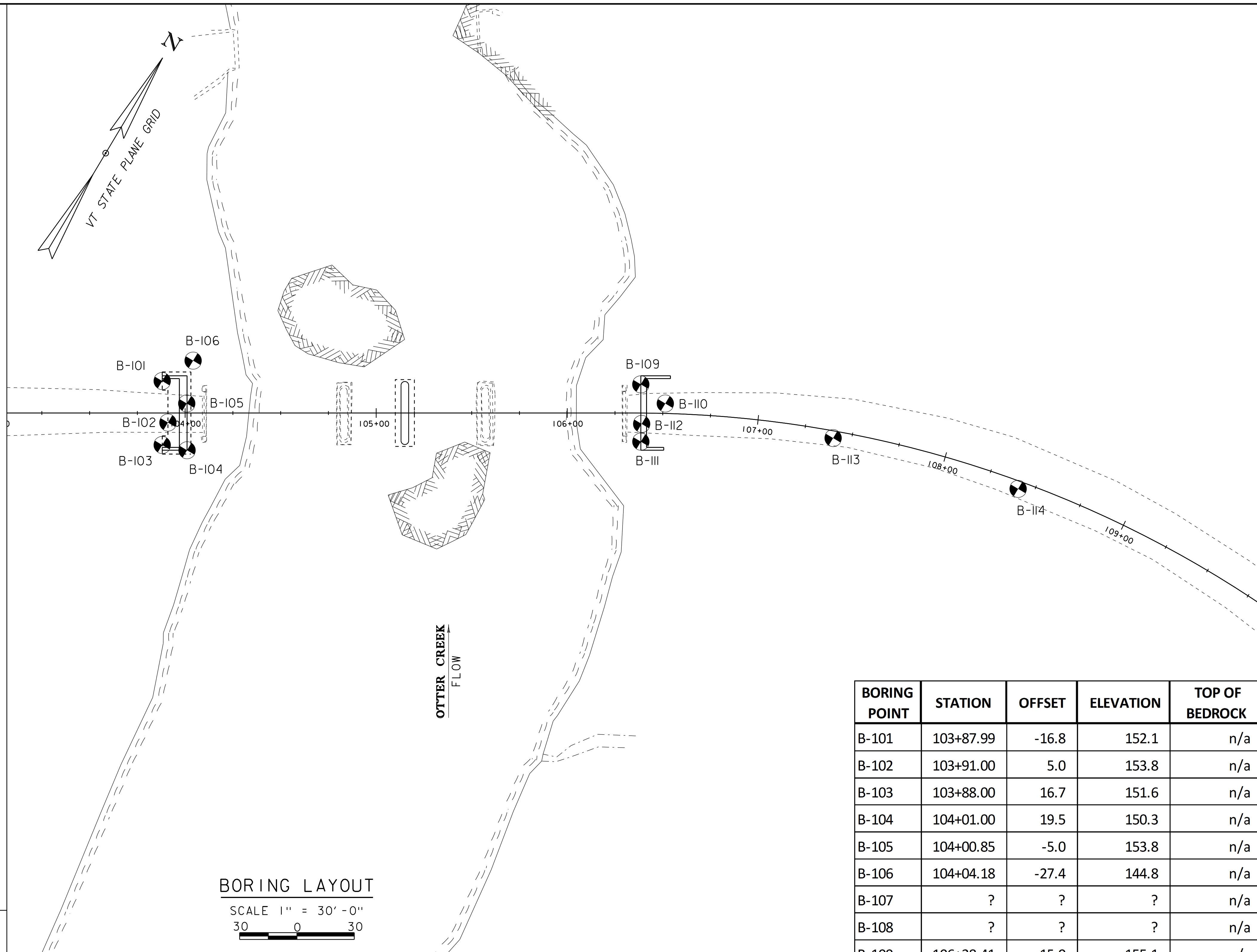
- ▼ Water Elevation
- ⊕ Standard Penetration Boring
- ⊕ Auger Boring
- ⊙ Rod Sounding
- S Sample
- N Standard Penetration Test  
Blow Count Per Foot For:  
2" O.D. Sampler  
1 3/8" I.D. Sampler  
Hammer Weight Of 140 Lbs.  
Hammer Fall Of 30"
- VS Field Vane Shear Test
- US Undisturbed Soil Sample
- B Blast
- DC Diamond Core
- MD Mud Drill
- WA Wash Ahead
- HSA Hollow Stem Auger  
AX Core Size 1 1/8"  
BX Core Size 1 3/8"  
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
- 1/2 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		

**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 > 0.075" (#10 sieve).
- SAND - Particles of rock < 0.075" (#10 sieve) and > 0.0029" (#200 sieve).
- SLT - 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.



**BORING LAYOUT**

SCALE 1" = 30'-0"  
30 0 30

**GENERAL NOTES**

- The subsurface explorations shown herein were made between ----- and ----- by the Agency.
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

BORING POINT	STATION	OFFSET	ELEVATION	TOP OF BEDROCK
B-101	103+87.99	-16.8	152.1	n/a
B-102	103+91.00	5.0	153.8	n/a
B-103	103+88.00	16.7	151.6	n/a
B-104	104+01.00	19.5	150.3	n/a
B-105	104+00.85	-5.0	153.8	n/a
B-106	104+04.18	-27.4	144.8	n/a
B-107	?	?	?	n/a
B-108	?	?	?	n/a
B-109	106+38.41	-15.0	155.1	n/a
B-110	106+51.18	-5.2	156.8	n/a
B-111	106+38.62	15.0	154.7	n/a
B-112	106+38.98	5.7	156.6	n/a
B-113	107+40.40	3.8	157.4	n/a
B-114	108+41.61	4.0	160.0	n/a

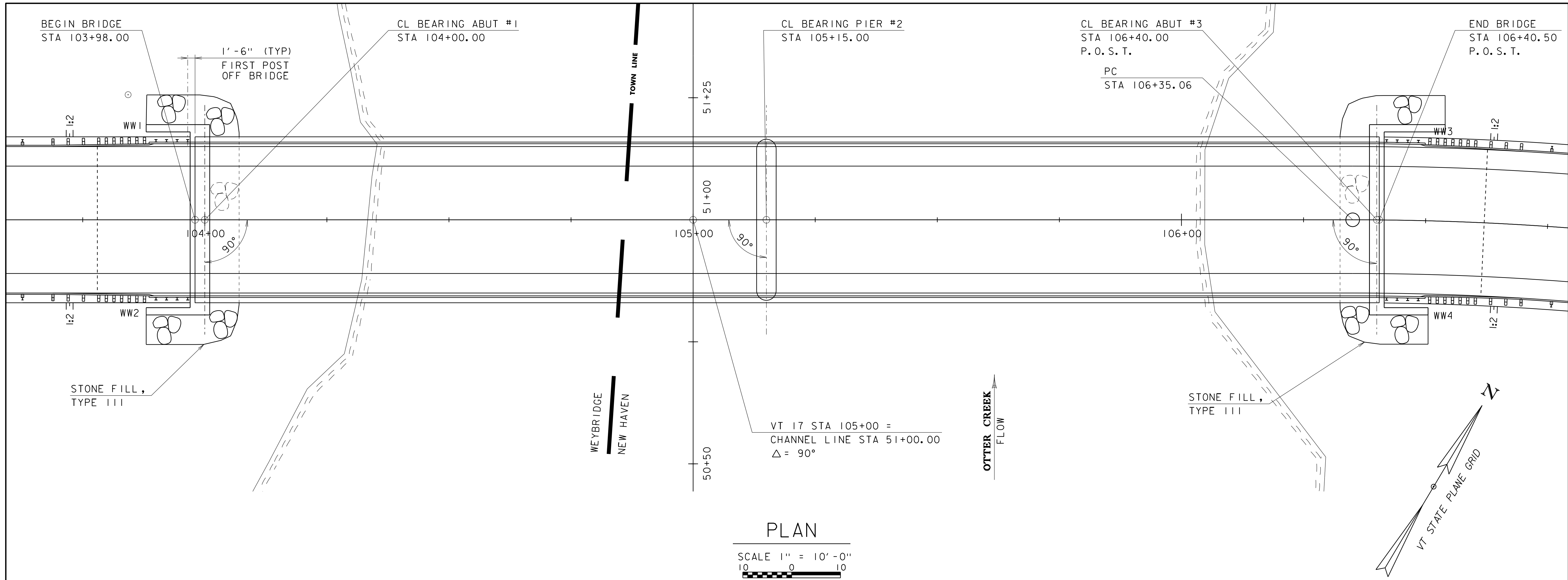
PROJECT NAME: WEYBRIDGE - NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552bor.dgn  
PROJECT LEADER: C.W. CARLSON  
DESIGNED BY: D. PETERSON  
BORING INFORMATION SHEET

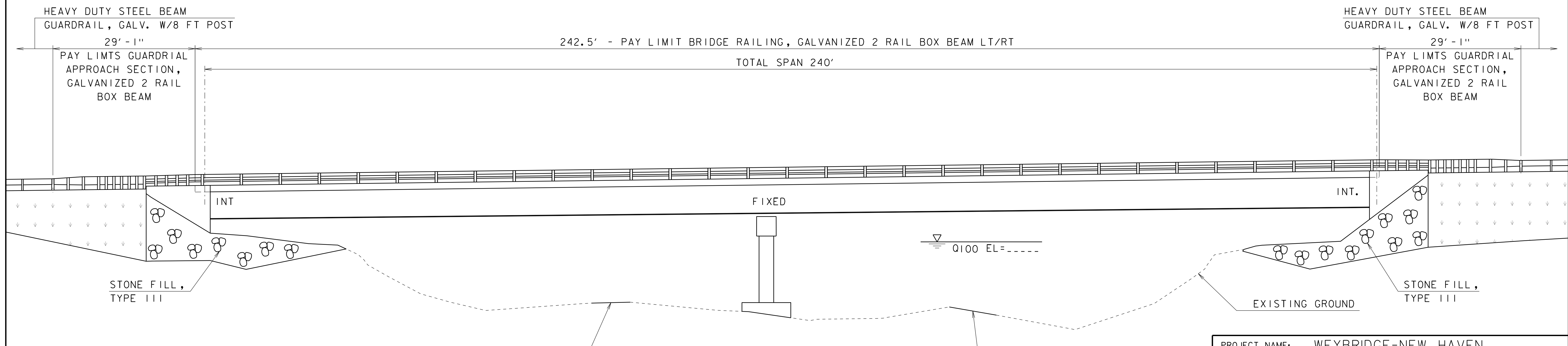
PLOT DATE: 15-NOV-2016  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 16 OF 45





PLAN

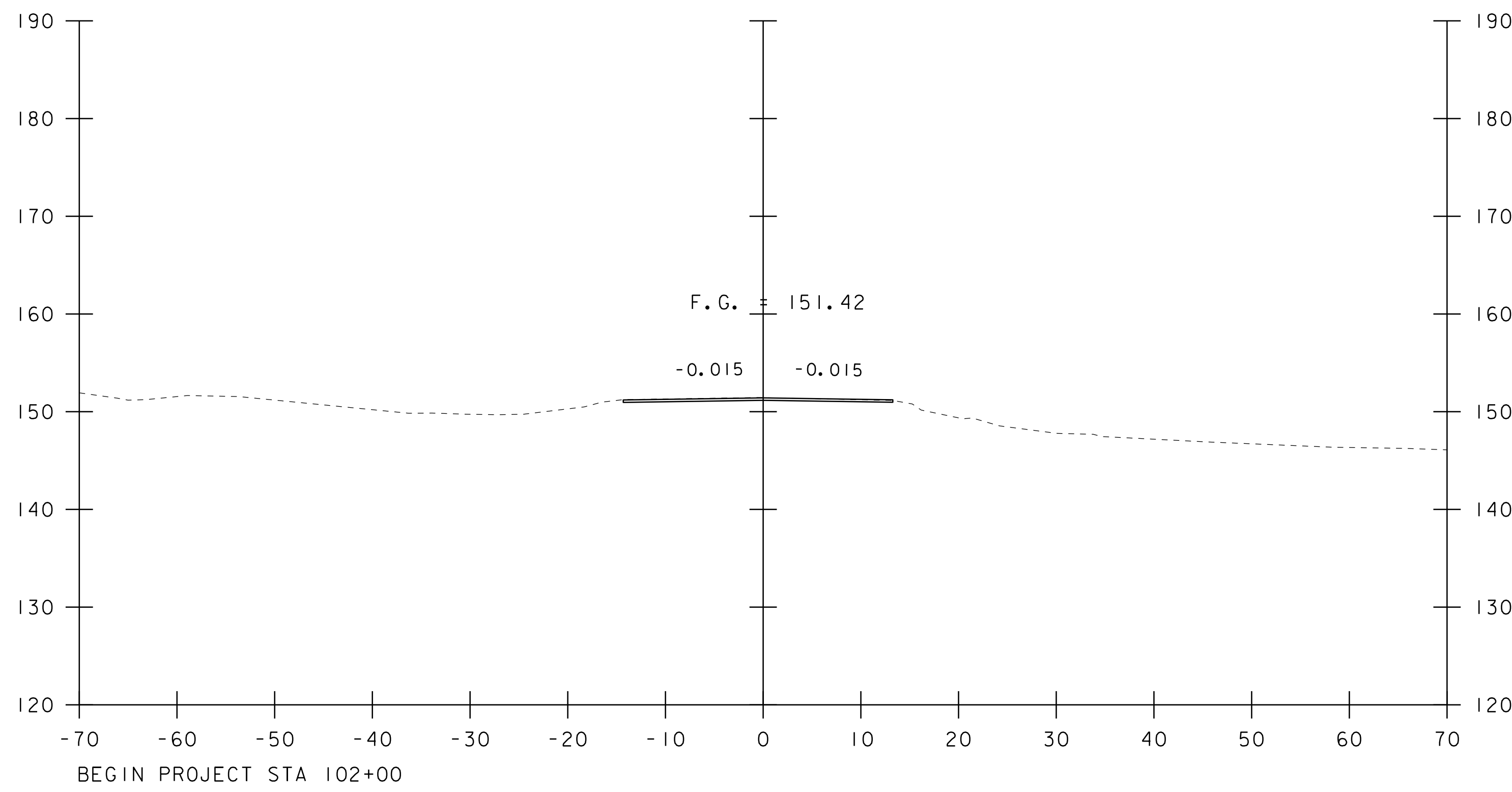
SCALE 1" = 10'-0"  
 10 0 10



ELEVATION

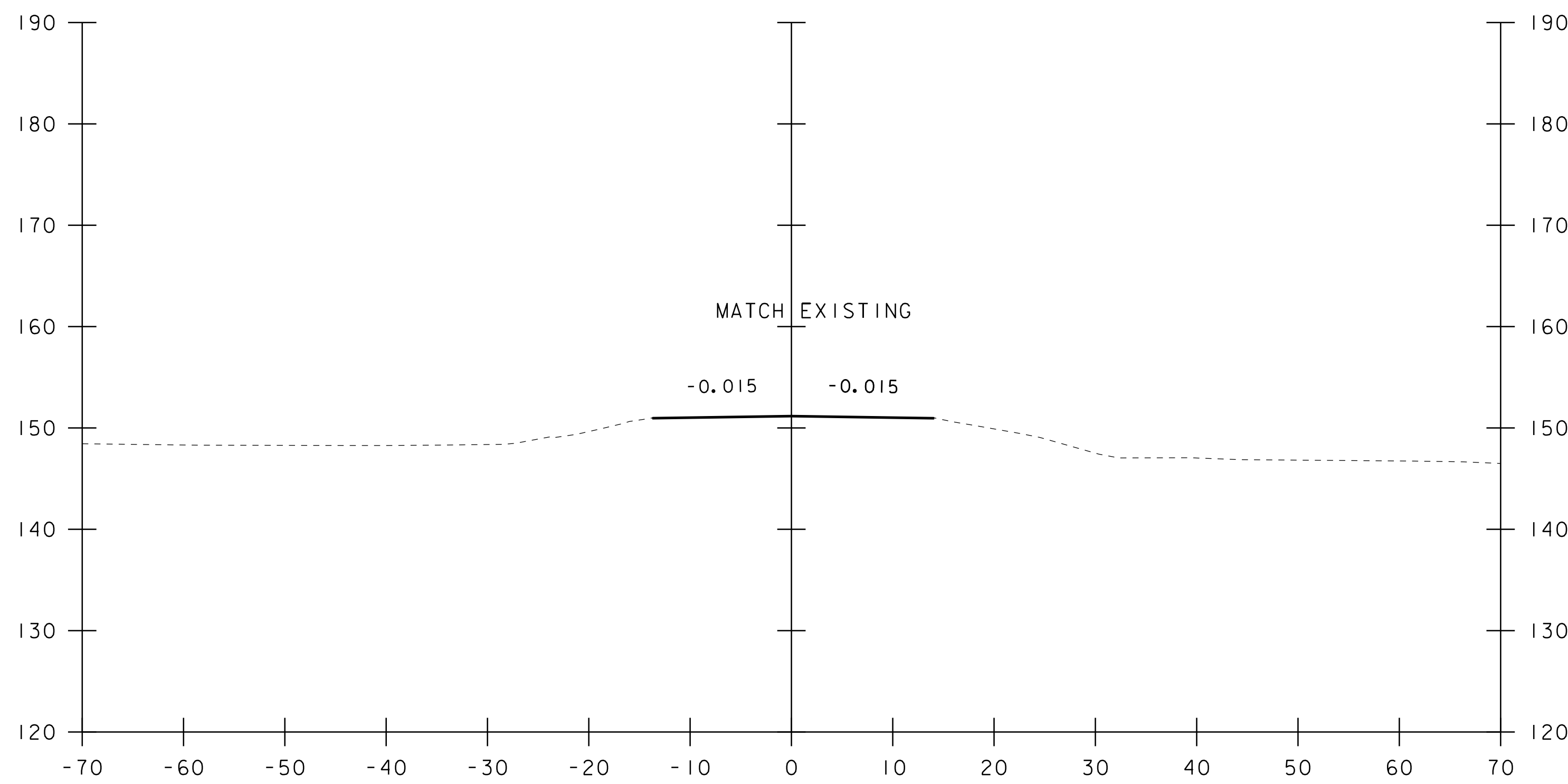
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PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BR 032-1(19)	
FILE NAME: sl2b552pe.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PLAN & ELEVATION	SHEET 17 OF 45

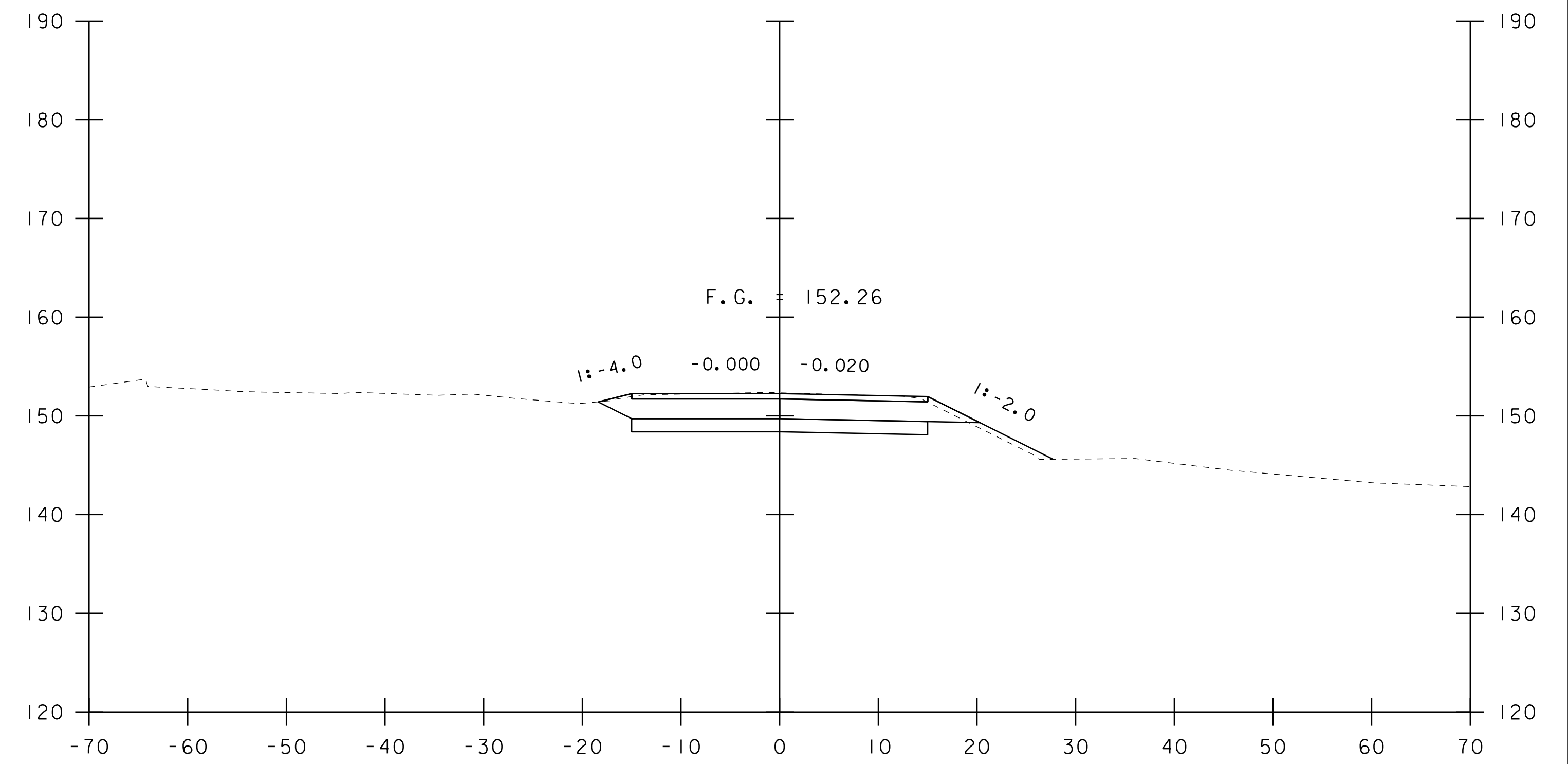


BEGIN PROJECT STA 102+00

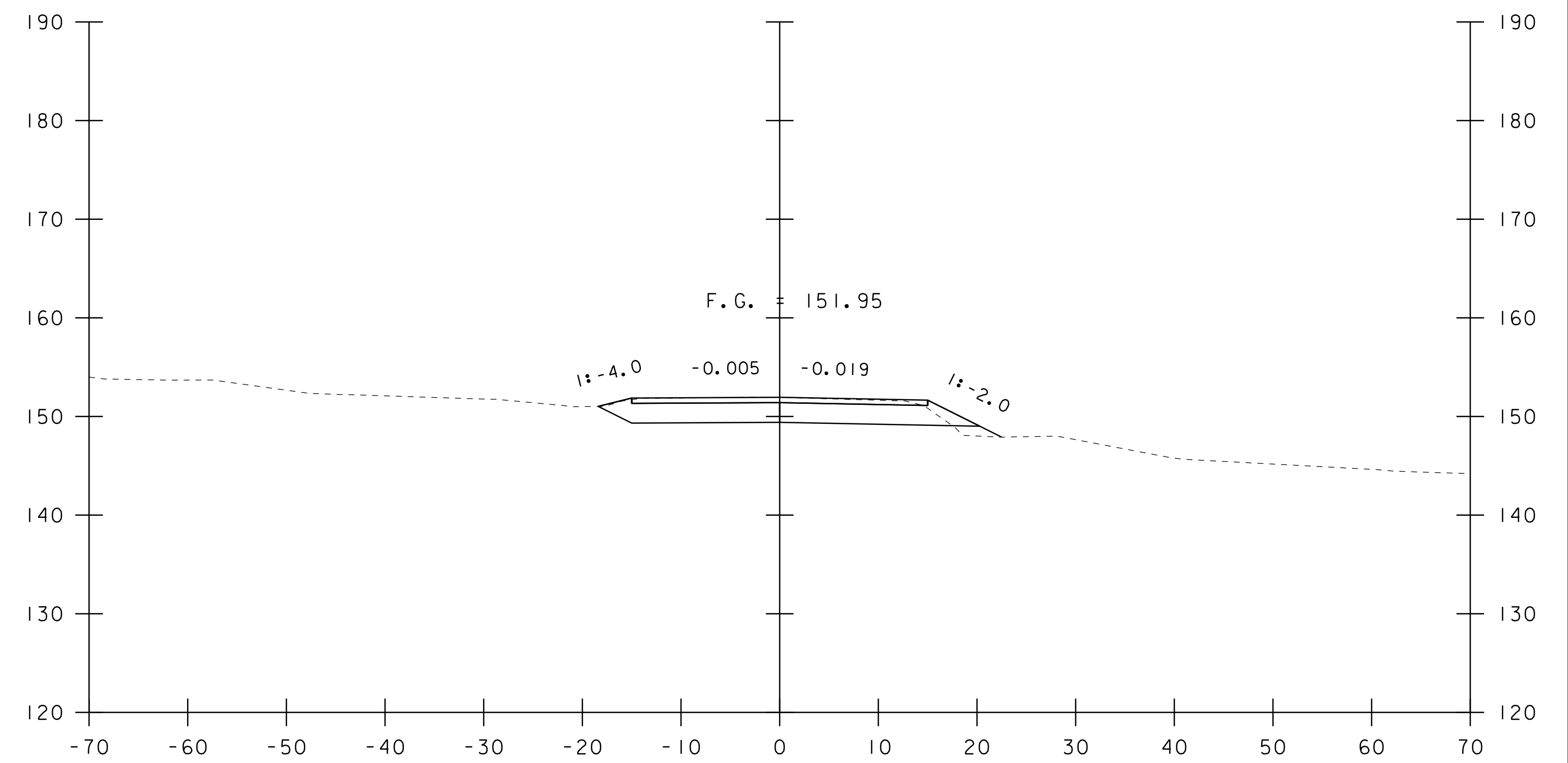
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101+50



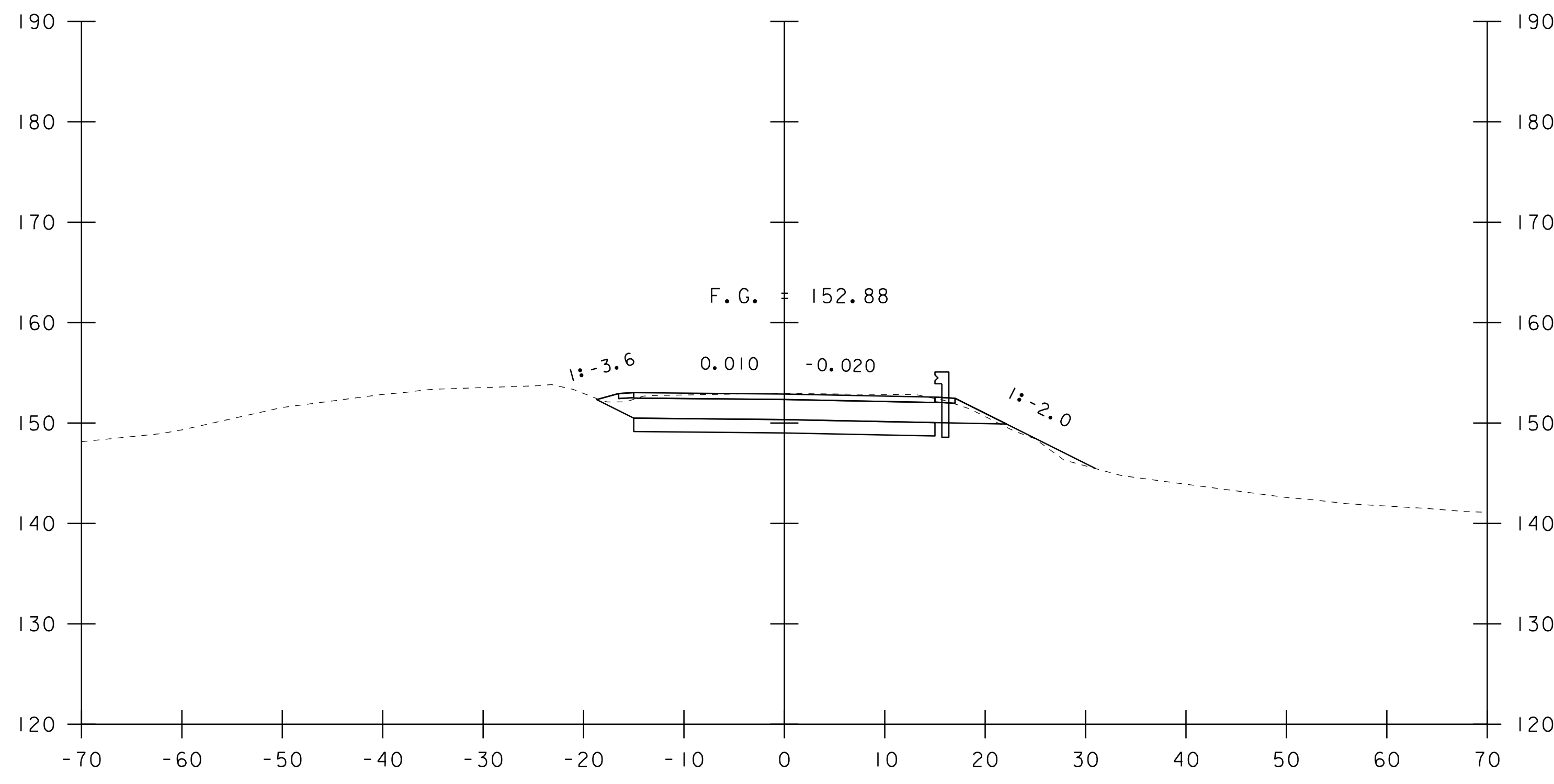
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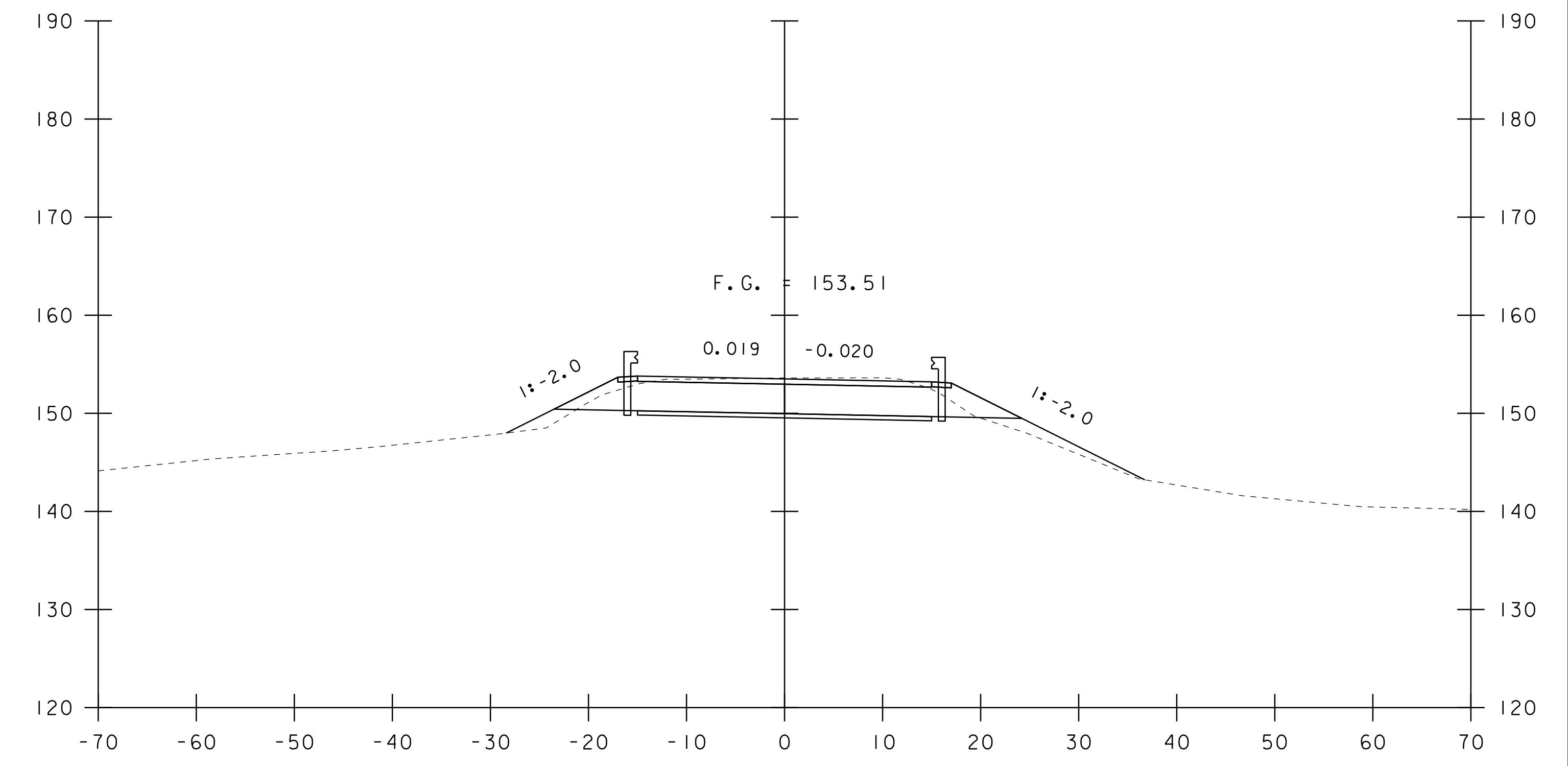
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STA. 101+50 TO STA. 102+75

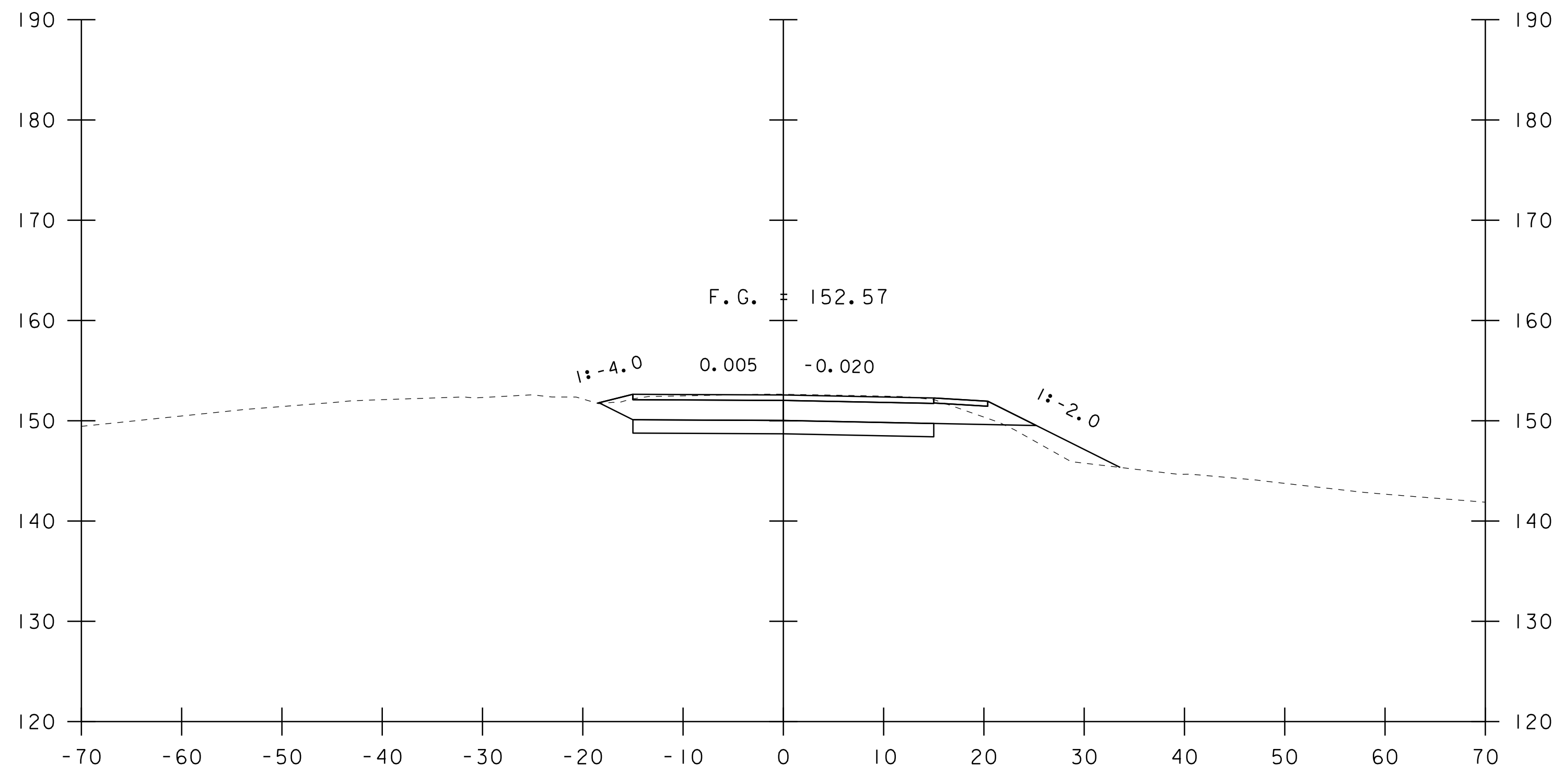
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PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 1	SHEET 18 OF 45



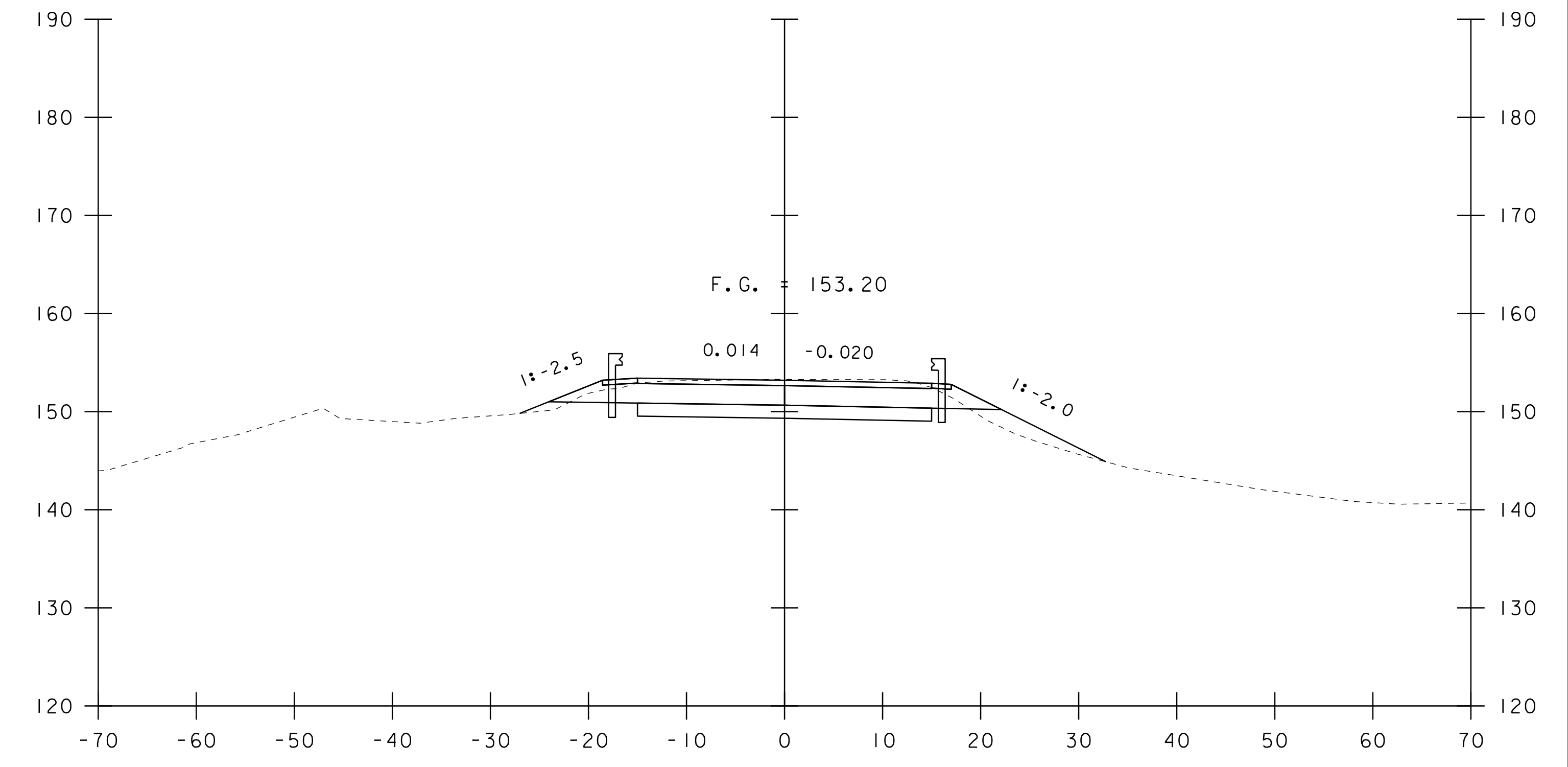
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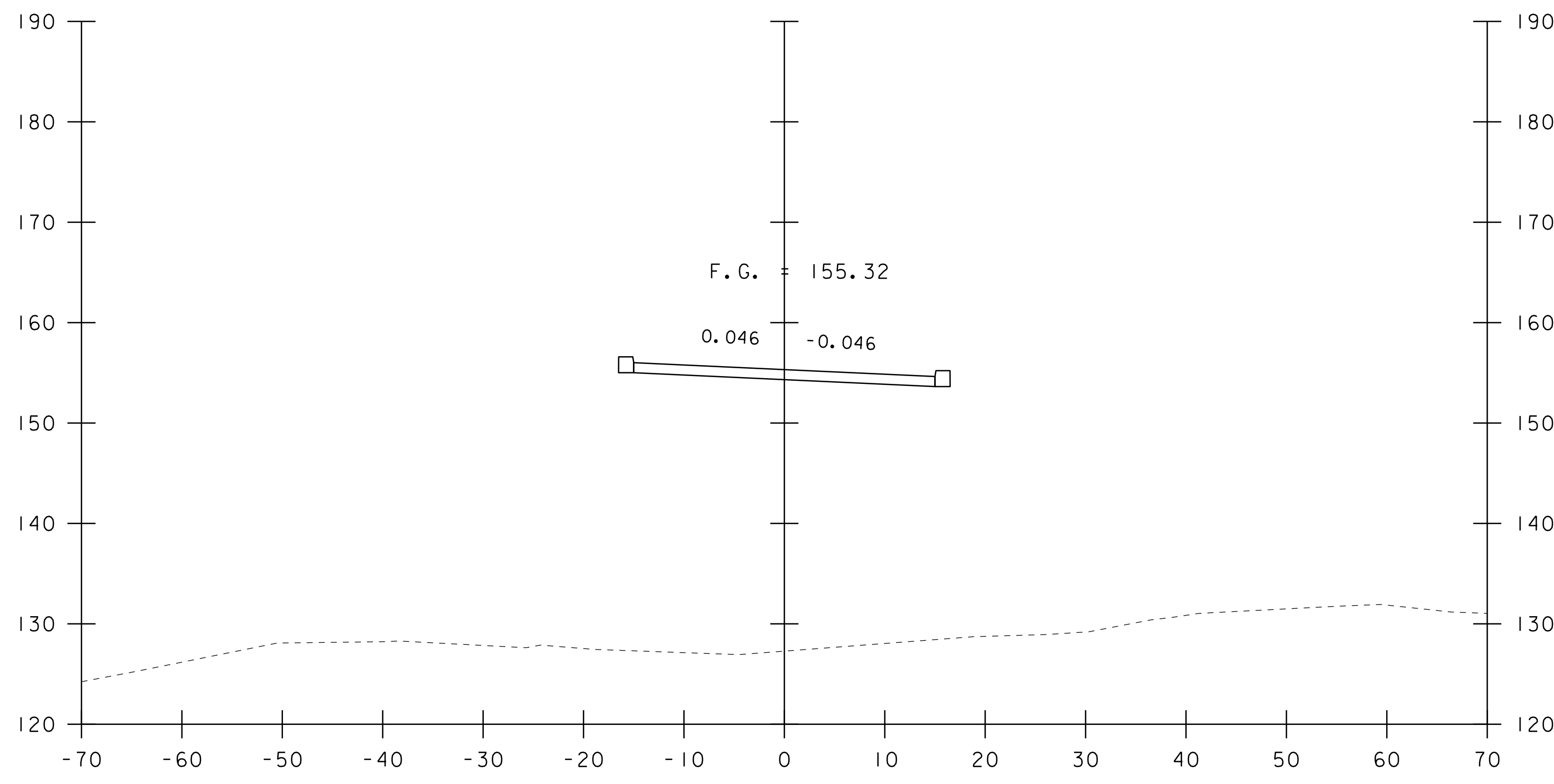
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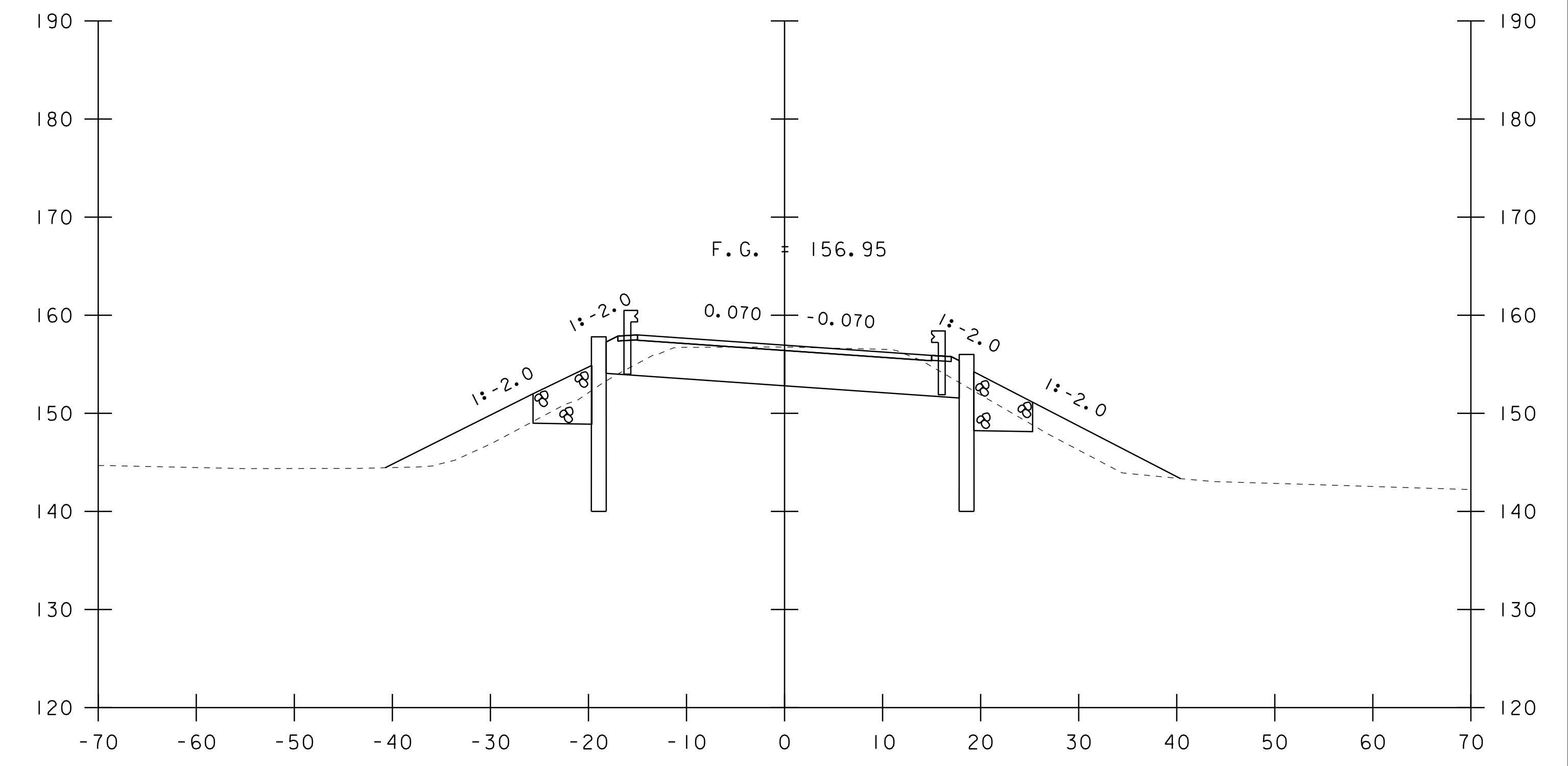
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STA. 103+00 TO STA. 103+75

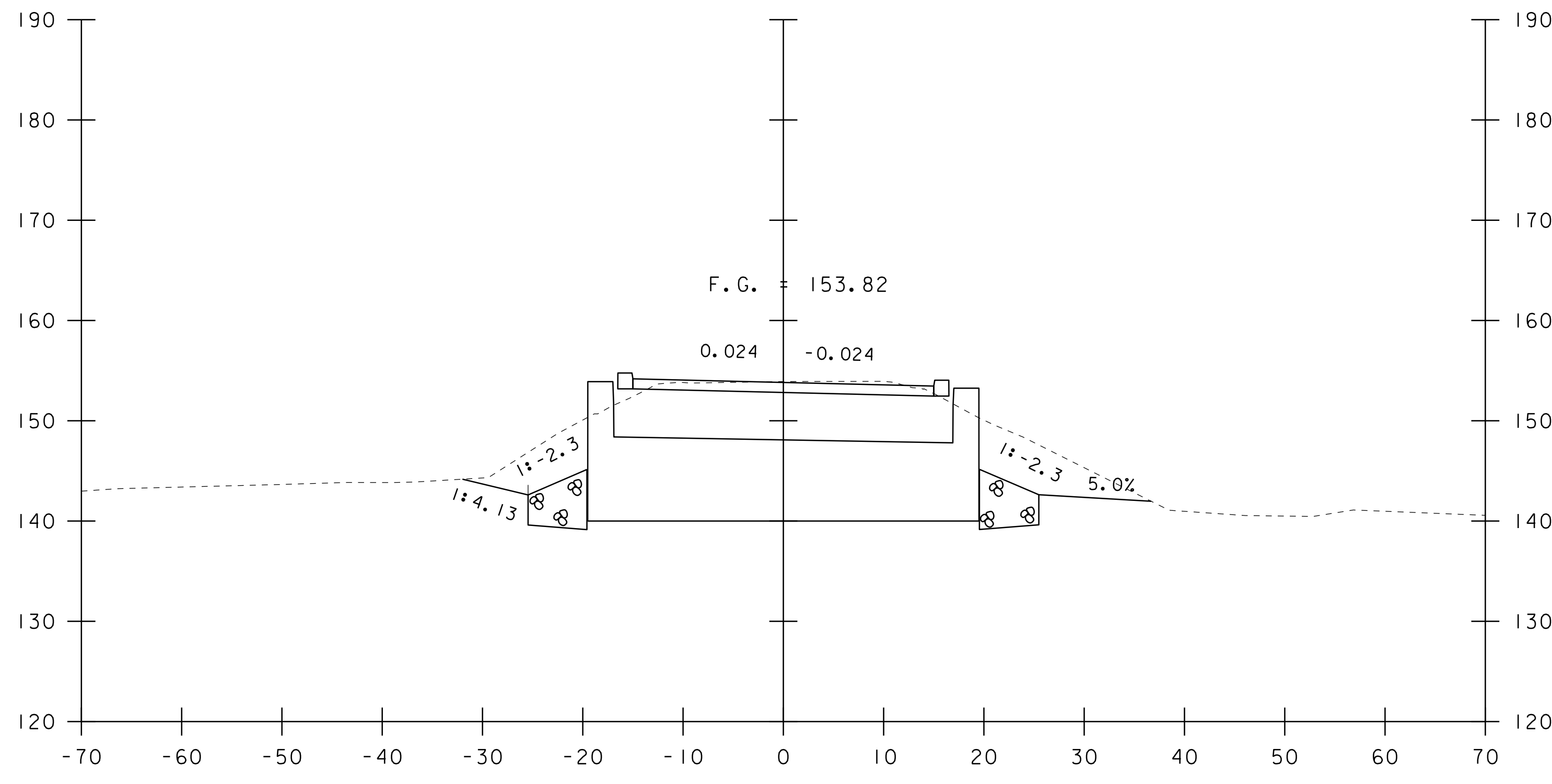
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PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 2	SHEET 19 OF 45



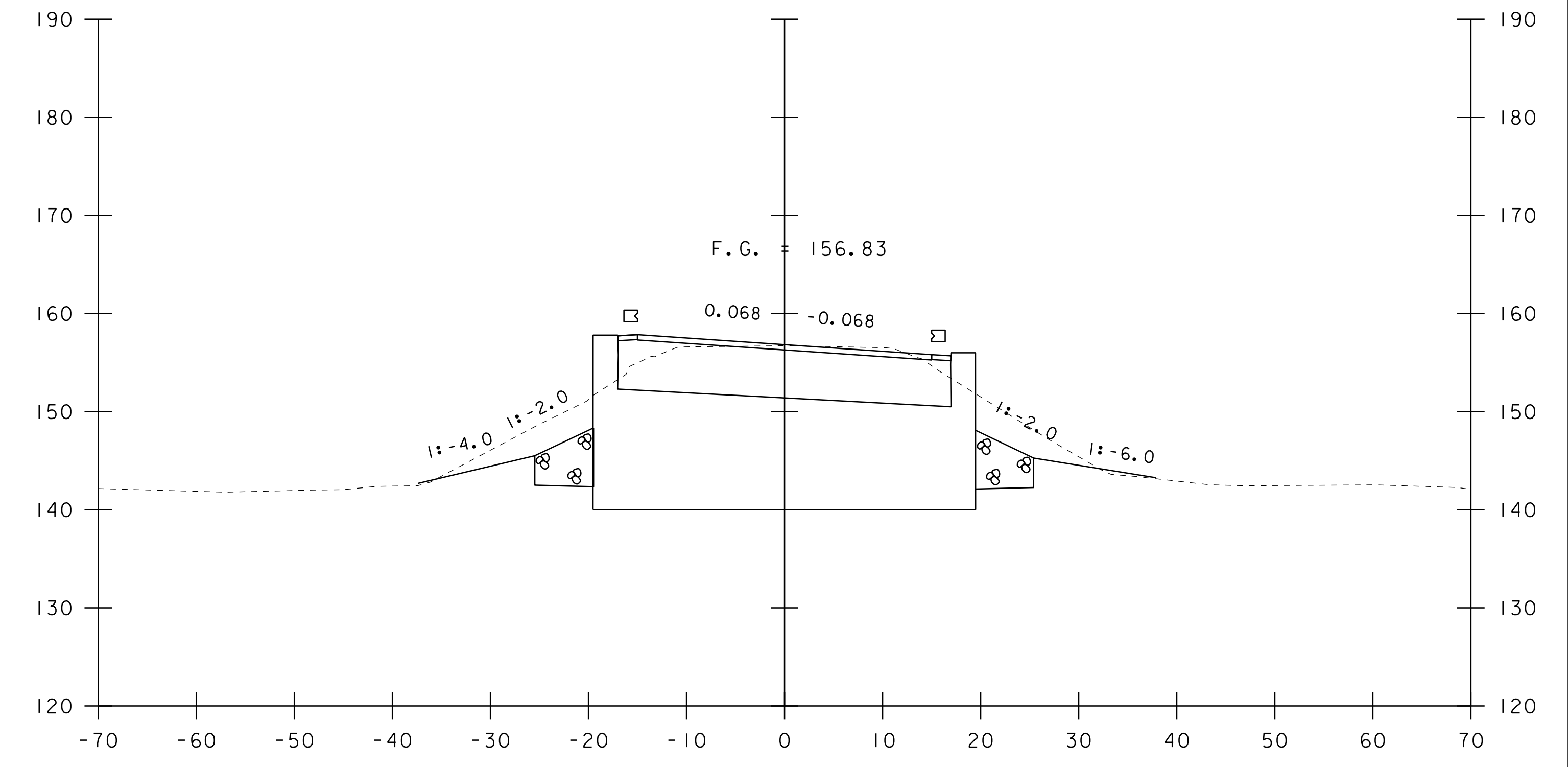
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106+50



104+00



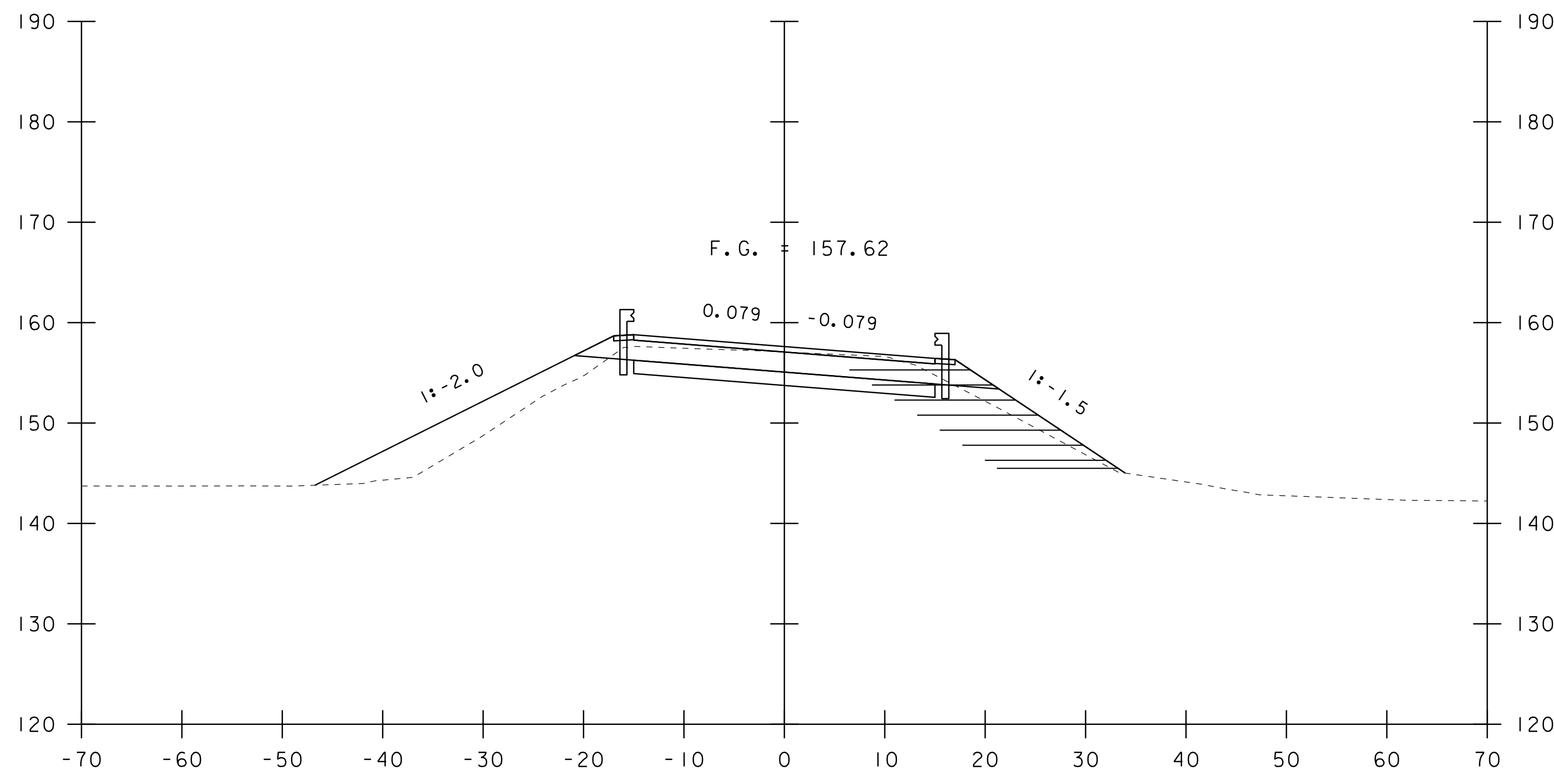
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START BRIDGE STA 103+98

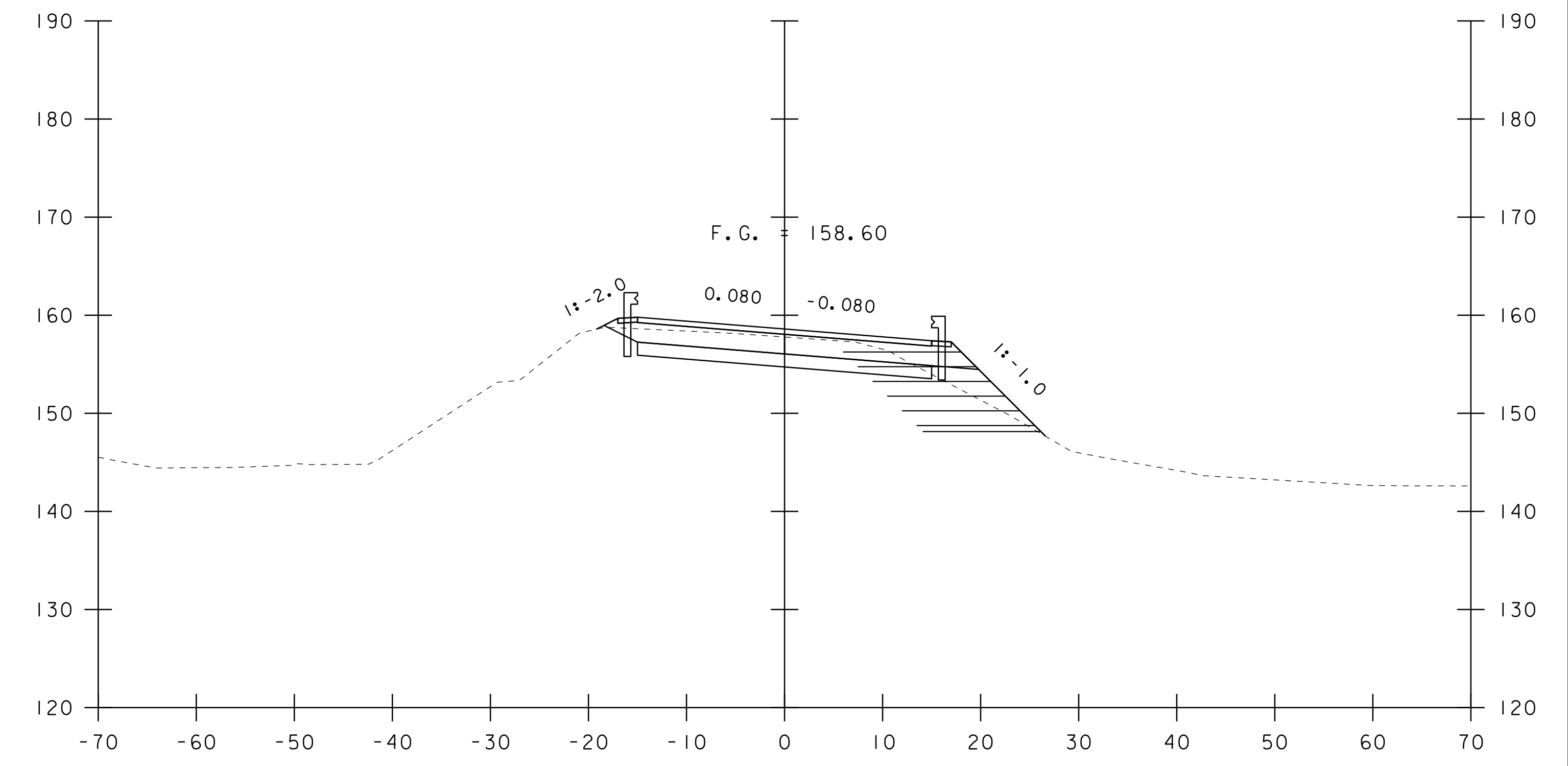
END BRIDGE STA 106+40.5

STA. 104+00 TO STA. 106+50

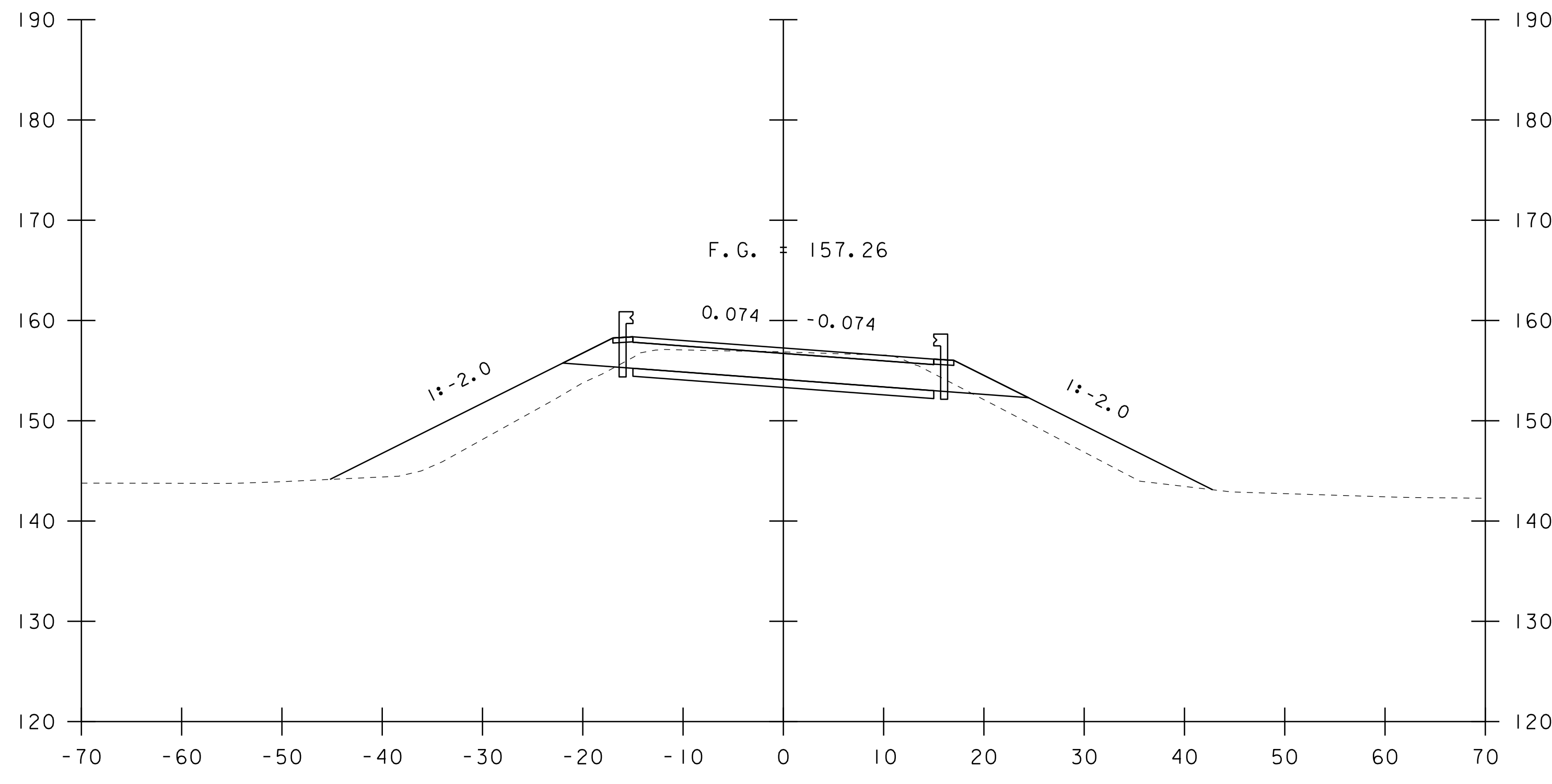
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 3	SHEET 20 OF 45



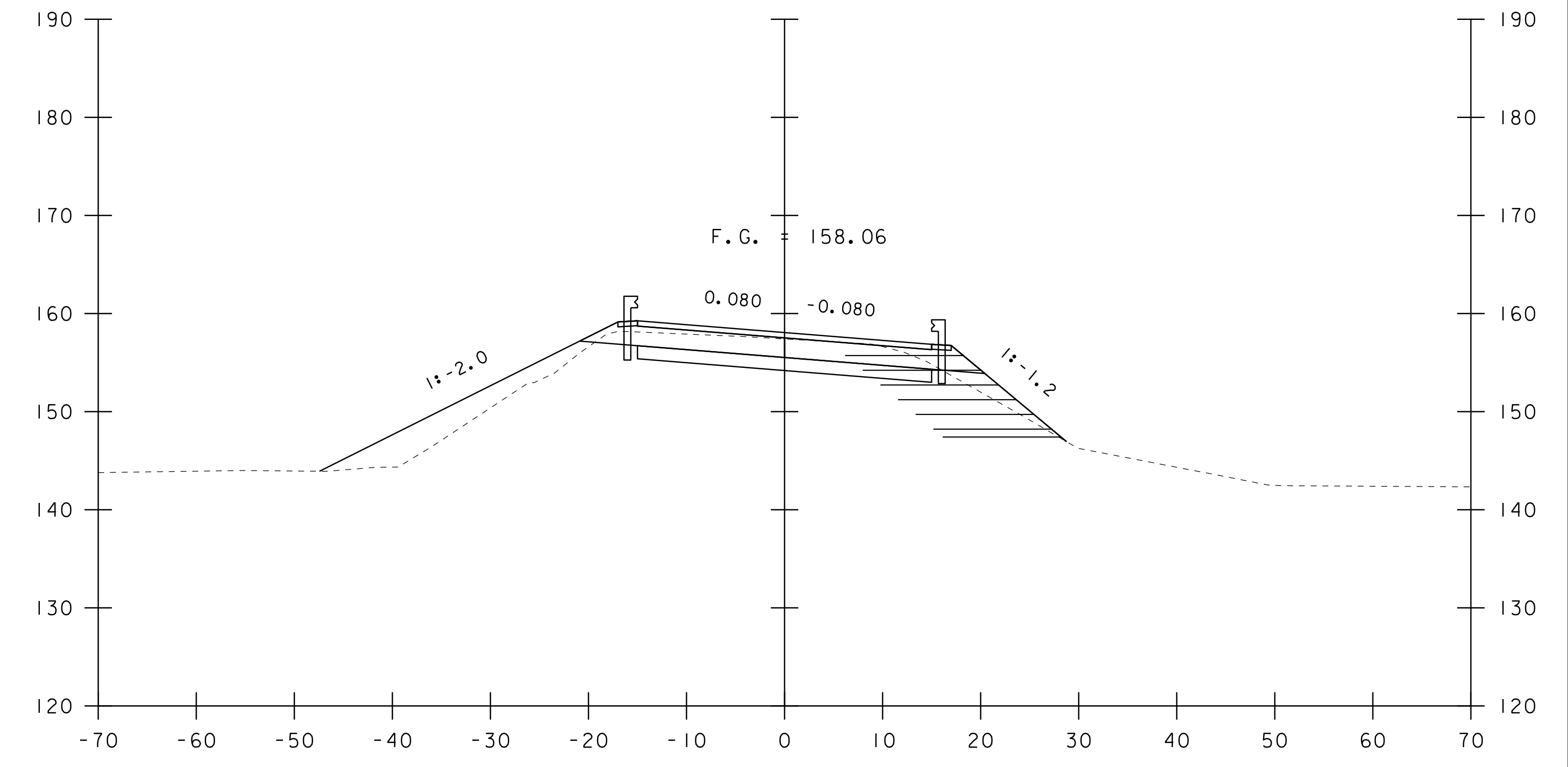
107+00



107+50



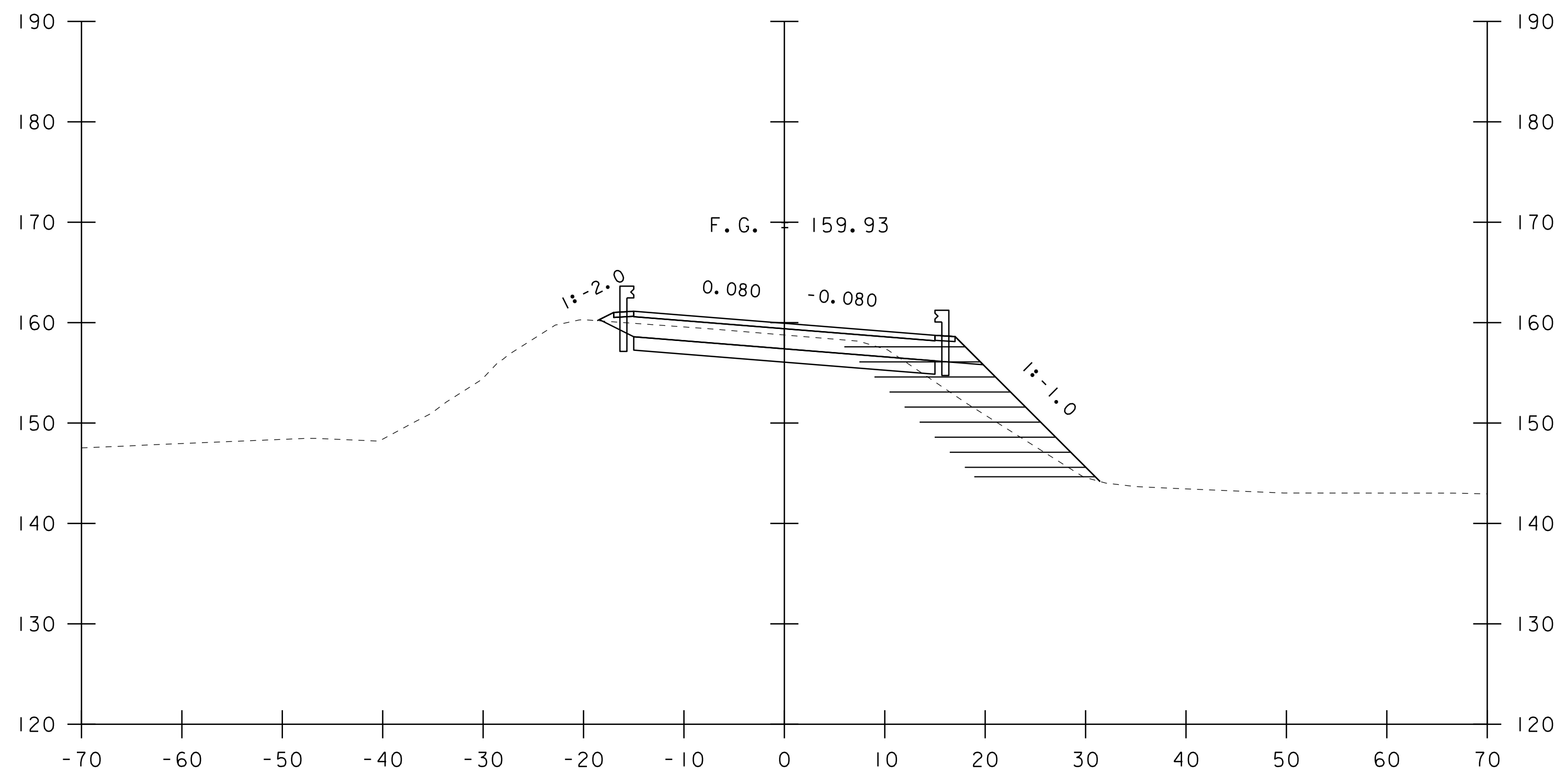
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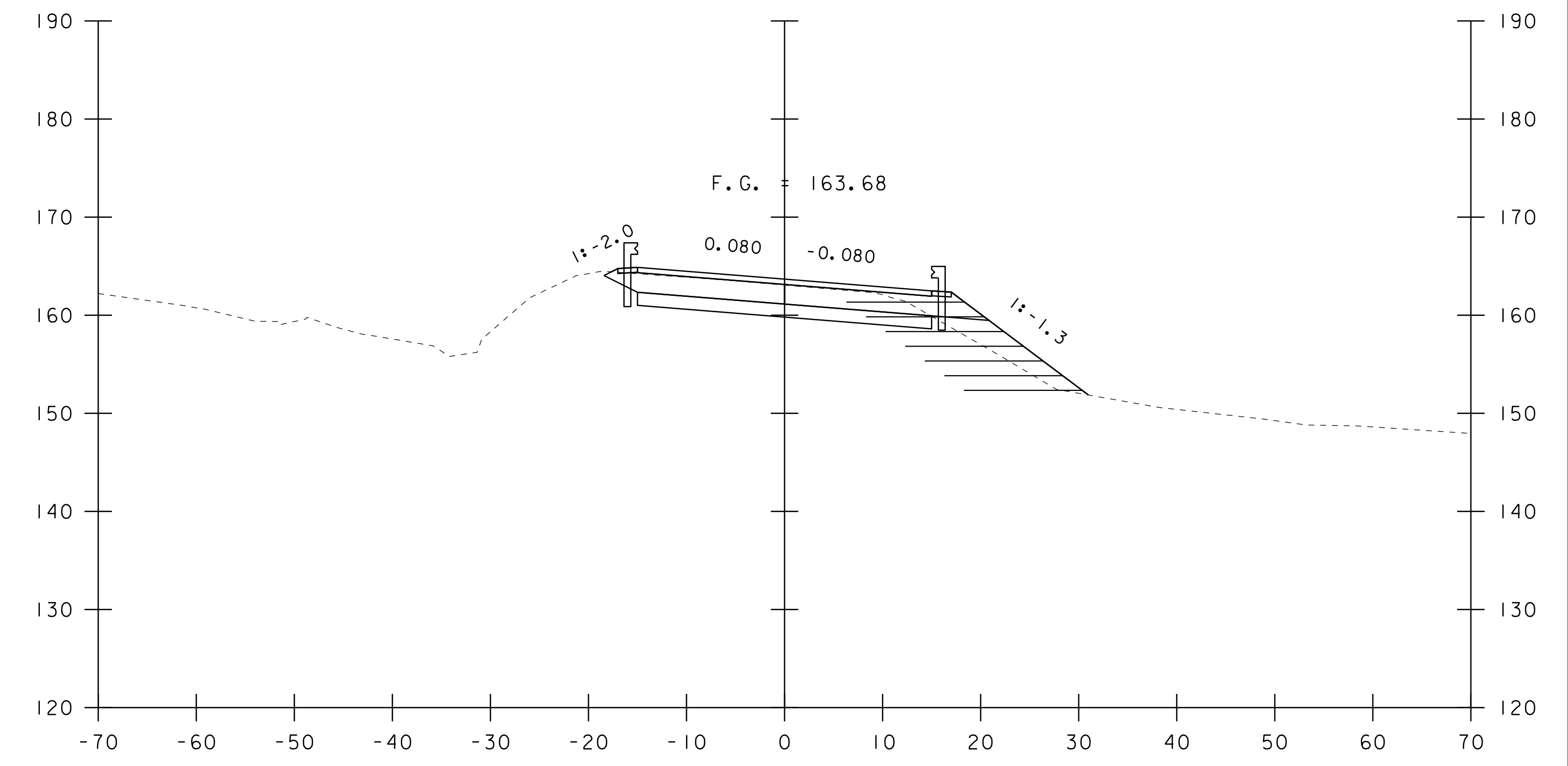
107+25

STA. 106+75 TO STA. 107+50

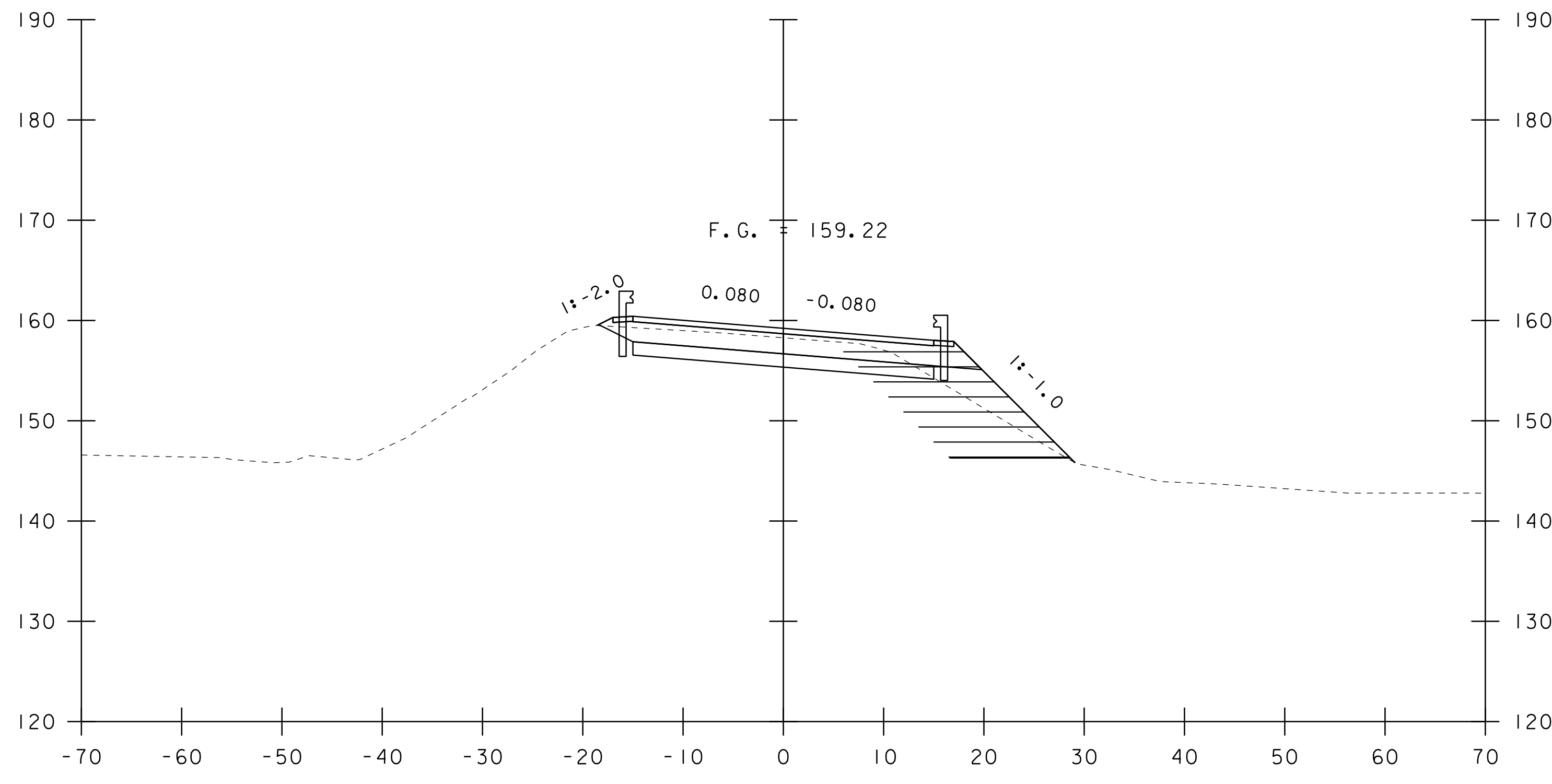
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 4	SHEET 21 OF 45



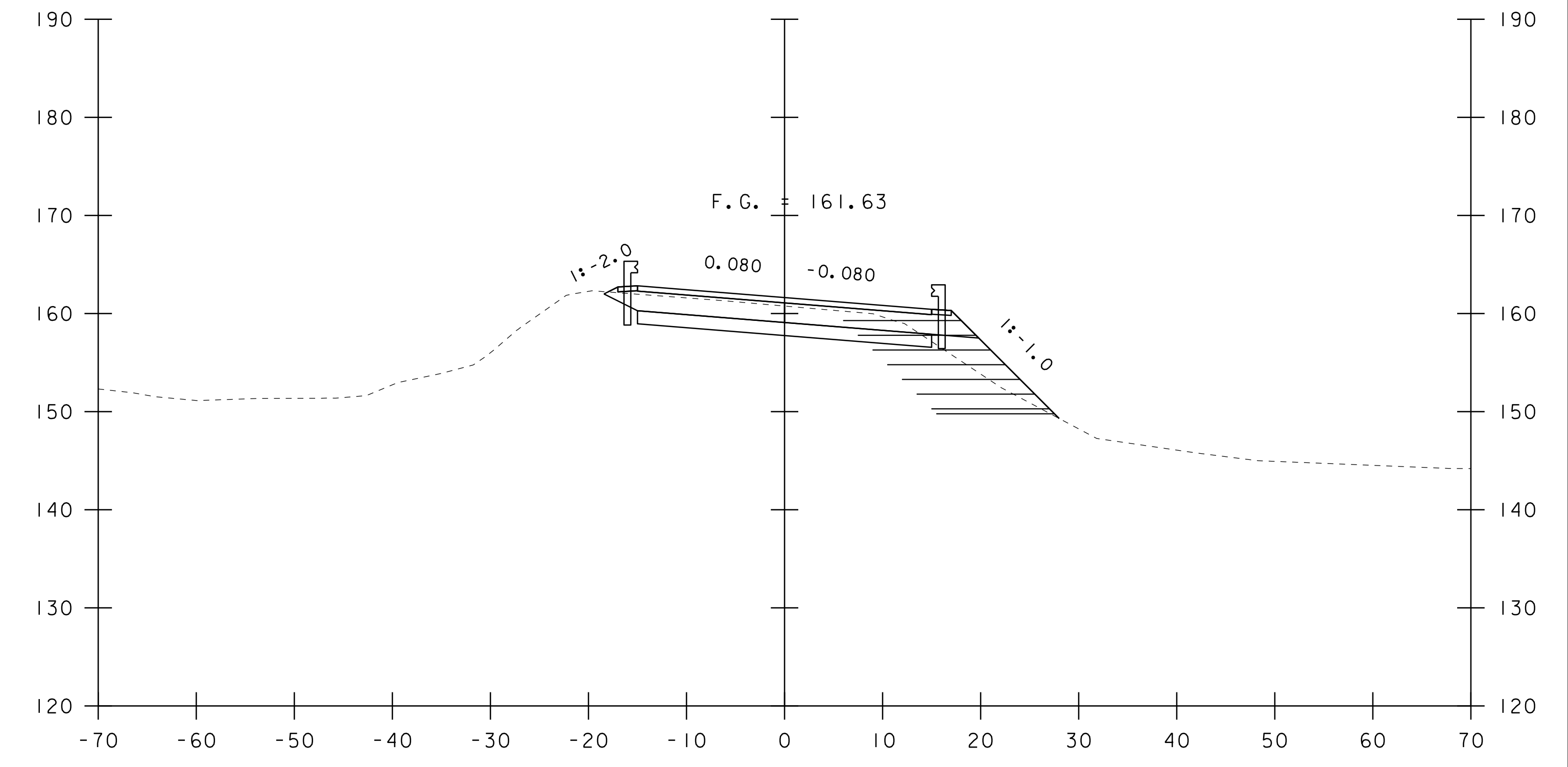
108+00



109+00



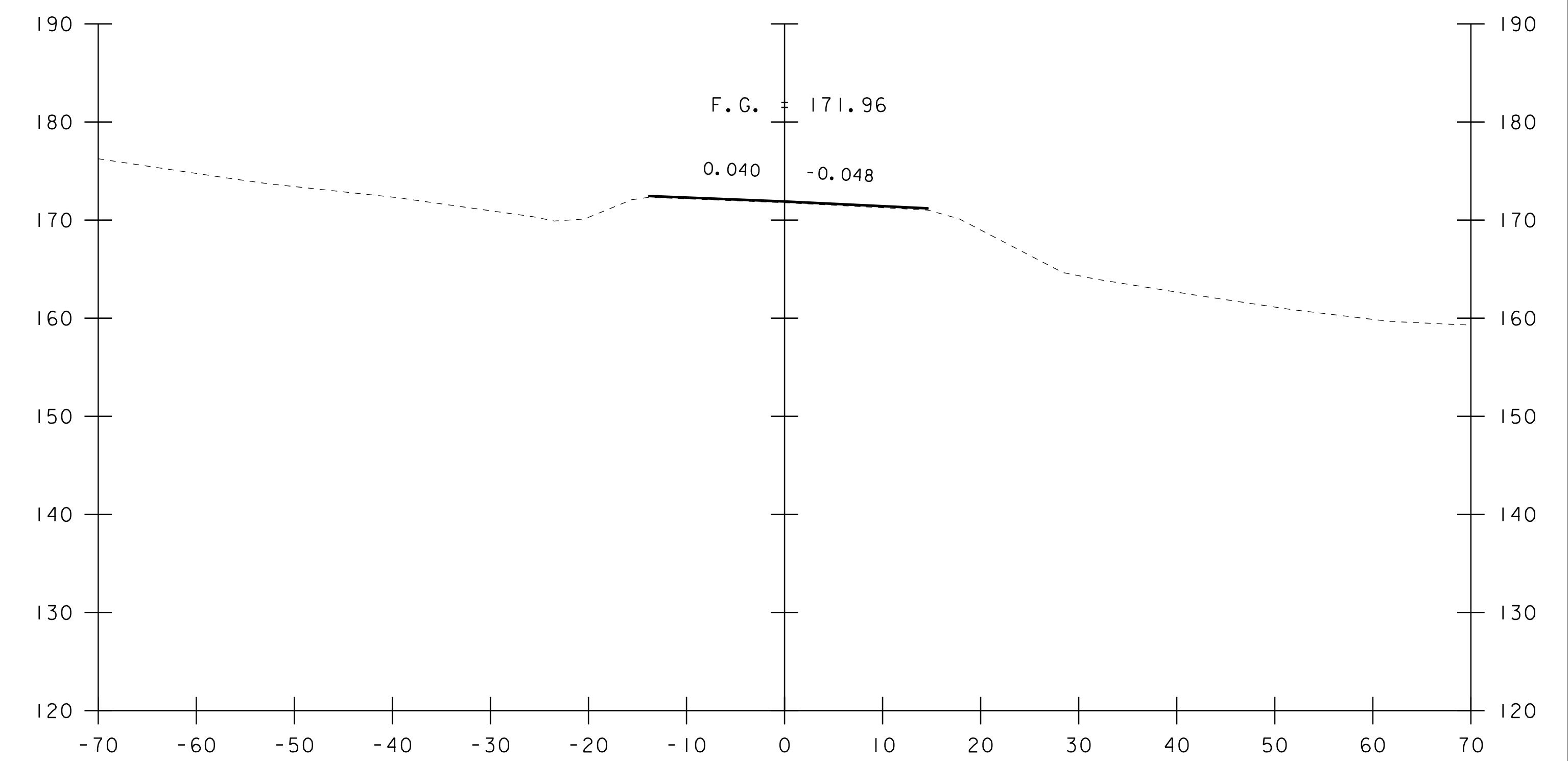
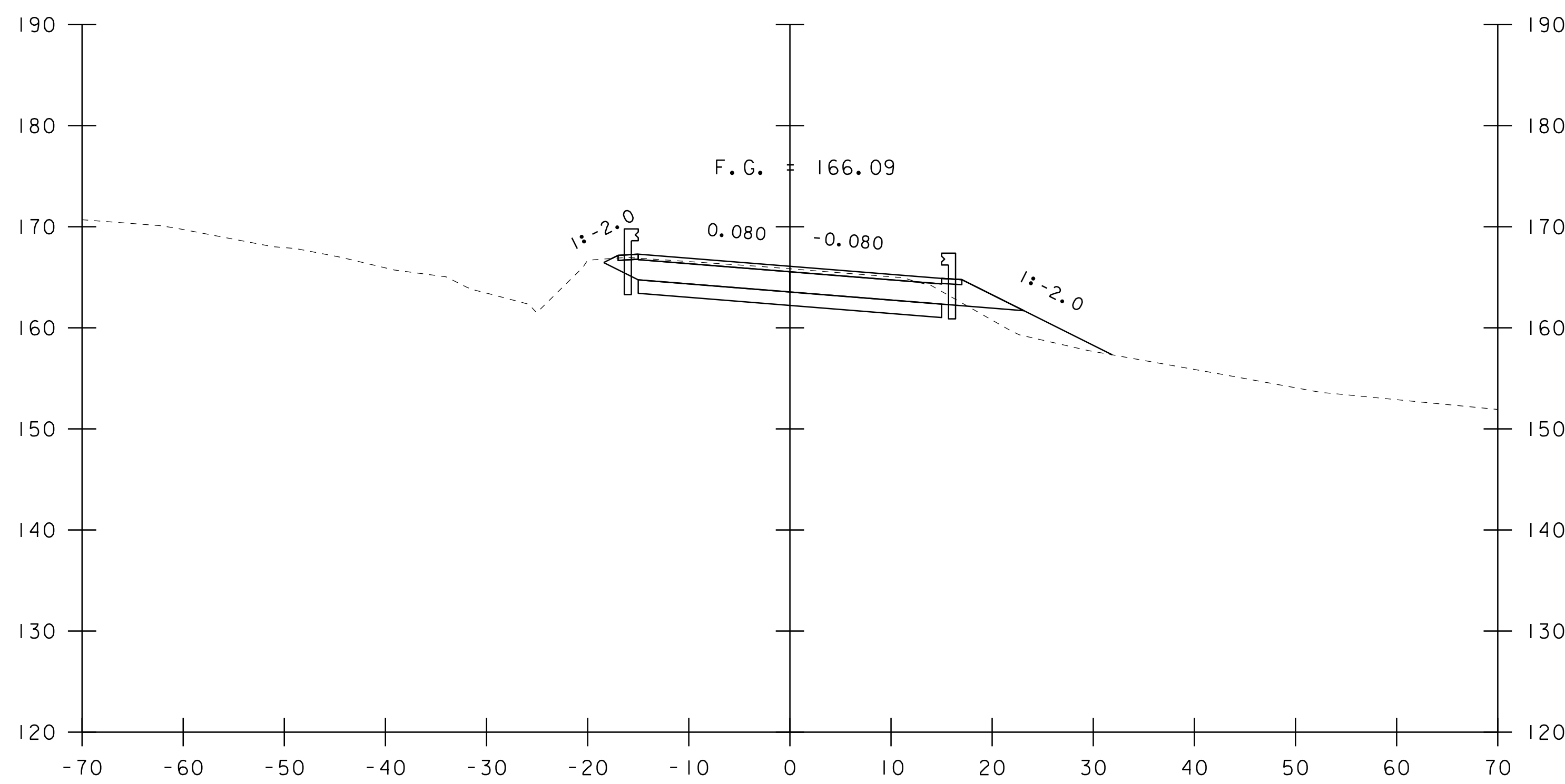
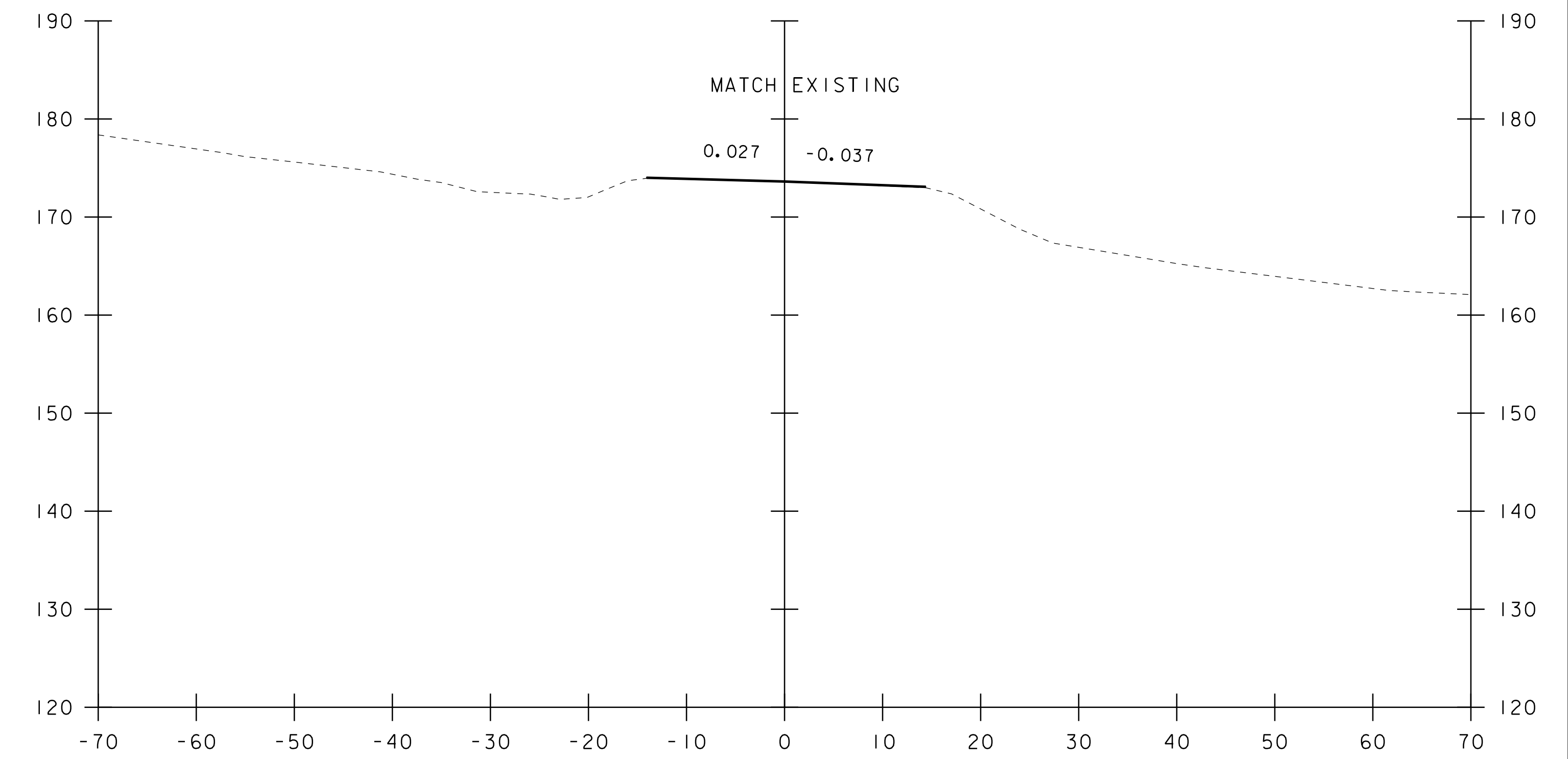
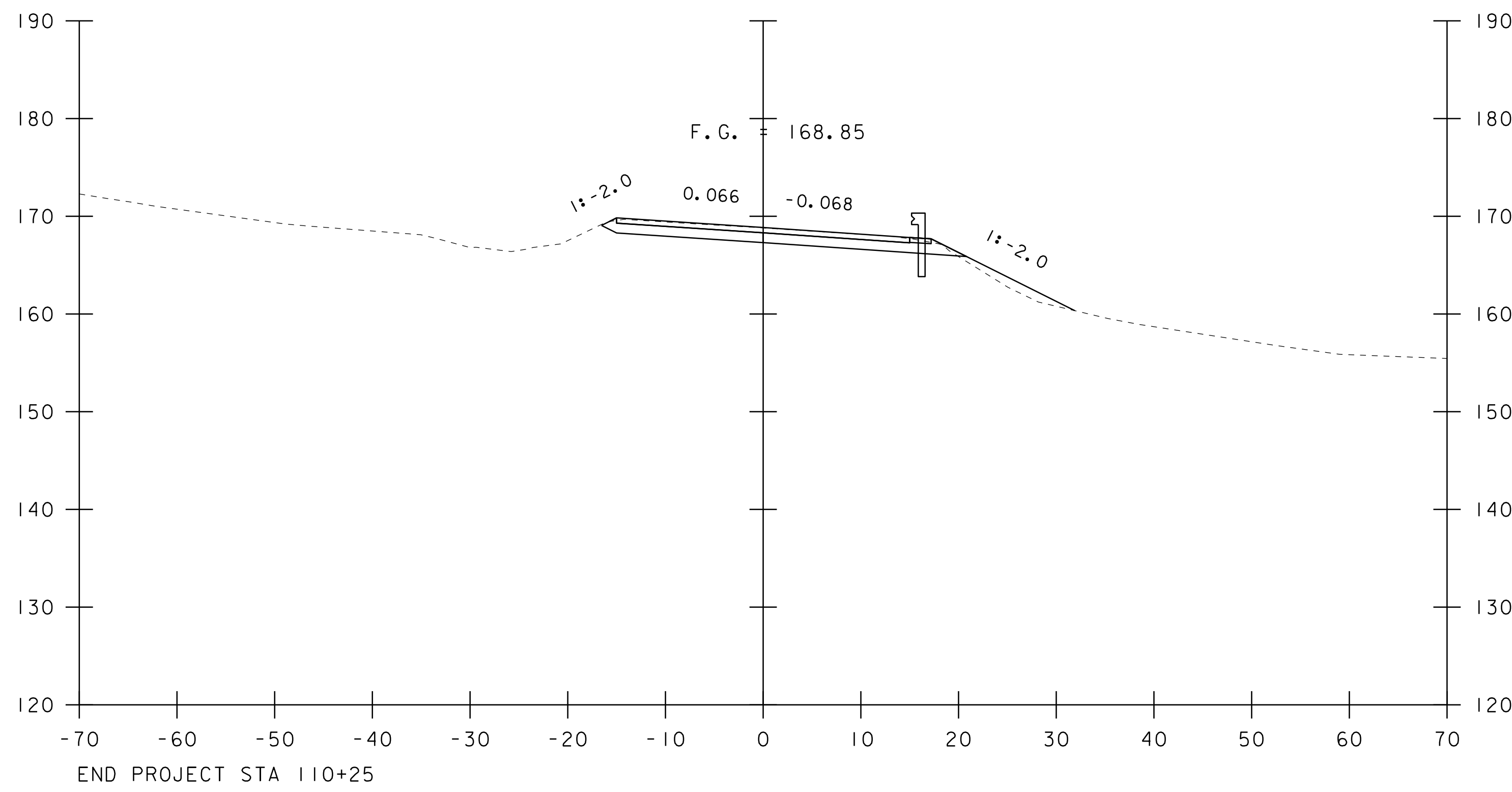
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108+50

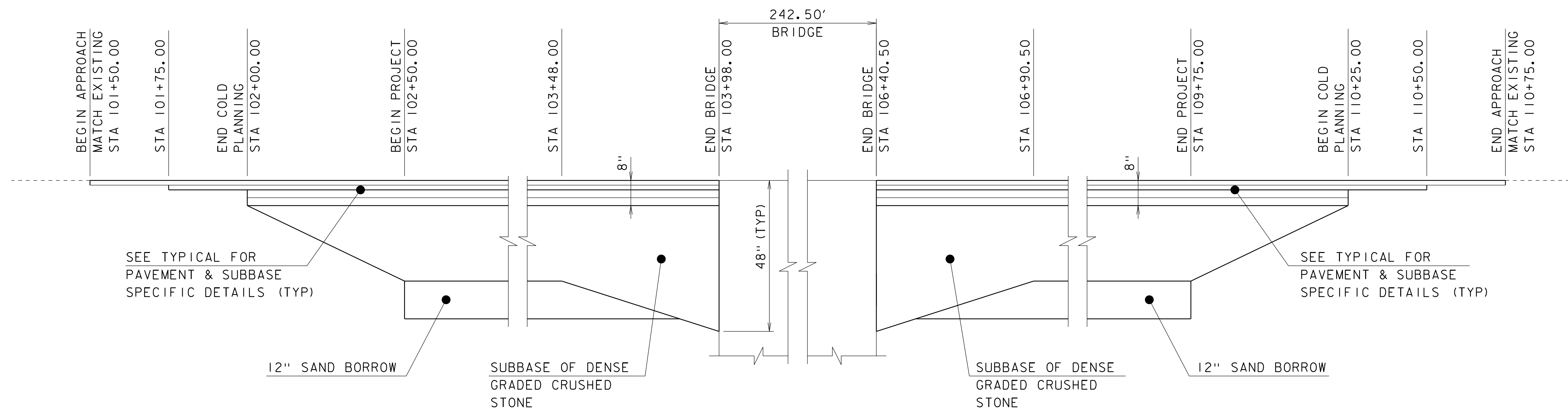
STA. 107+75 TO STA. 109+00

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 5	SHEET 22 OF 45



STA. 109+50 TO STA. 110+75

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 6	SHEET 23 OF 45



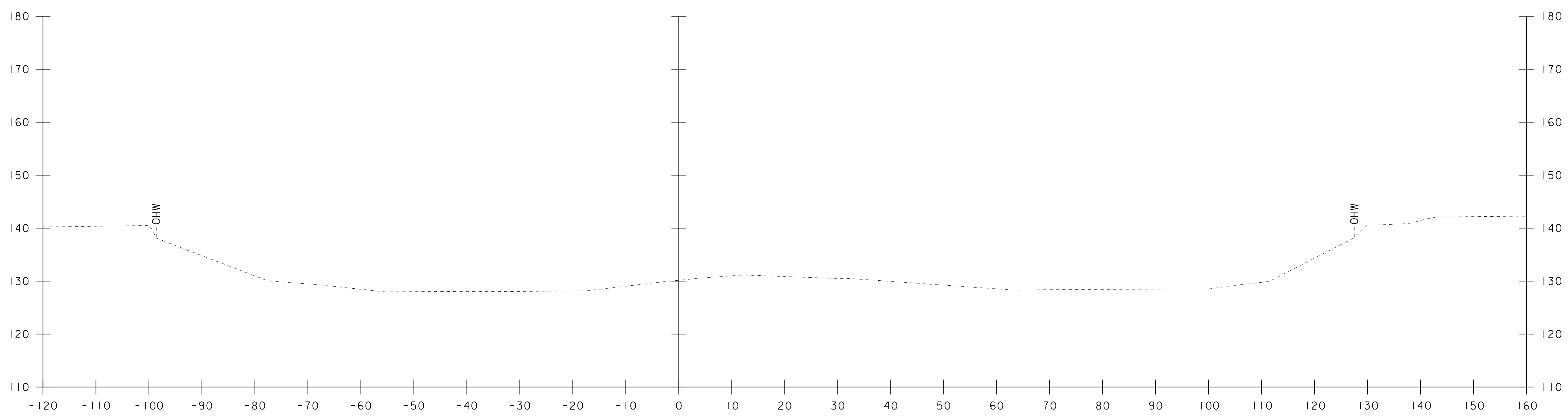
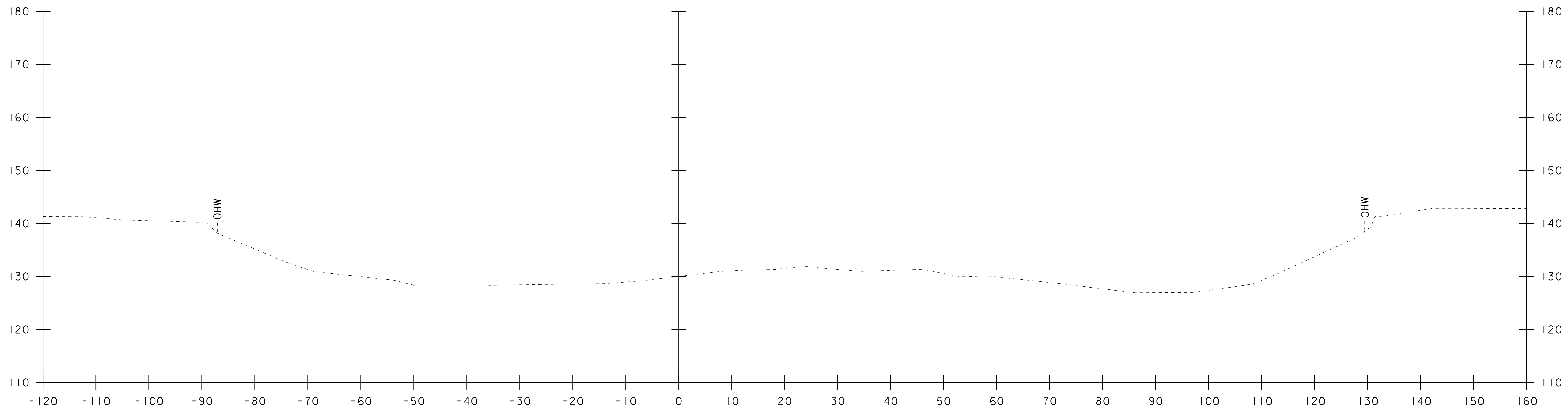
VT17 MATERIAL TRANSITION DETAIL

HORIZONTAL SCALE: 1" = 20' -0"  
NO VERTICAL SCALE

PROJECT NAME: WEYBRIDGE-NEW HAVEN  
PROJECT NUMBER: BF 032-1(19)

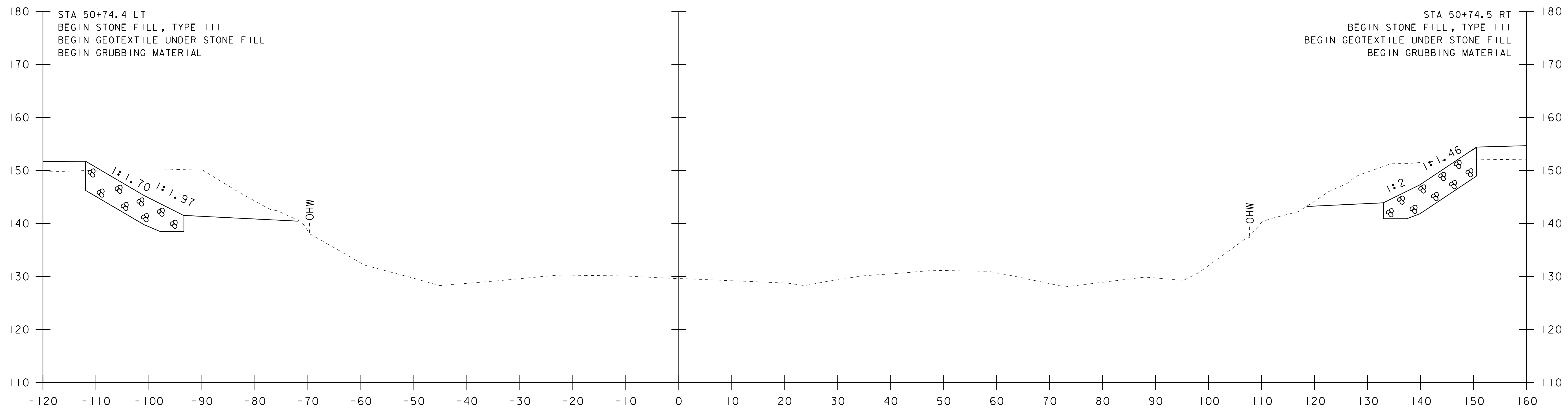
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PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
MATERIAL TRANSITION & DETAILS	SHEET 24 OF 45



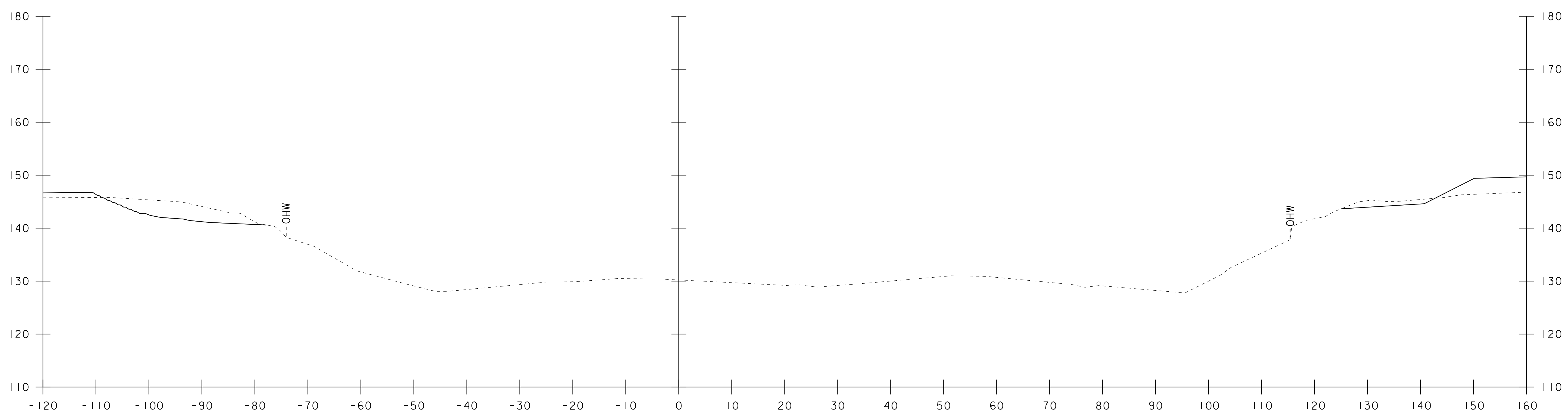


STA. 50+25 TO STA. 50+50

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 1	SHEET 25 OF 45



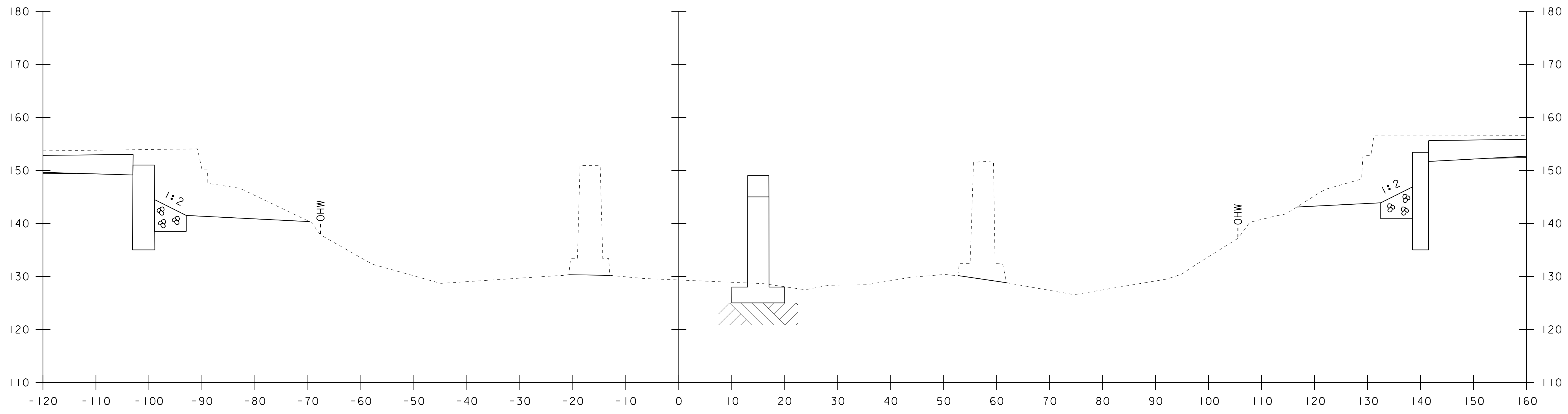
50+80



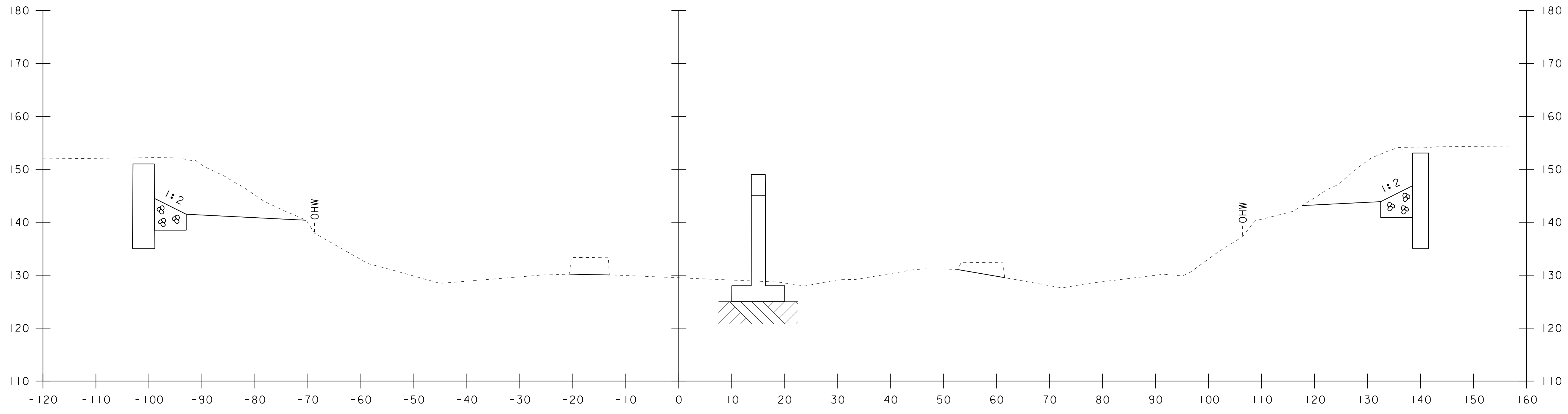
50+70

STA. 50+70 TO STA. 50+80

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 2	SHEET 26 OF 45



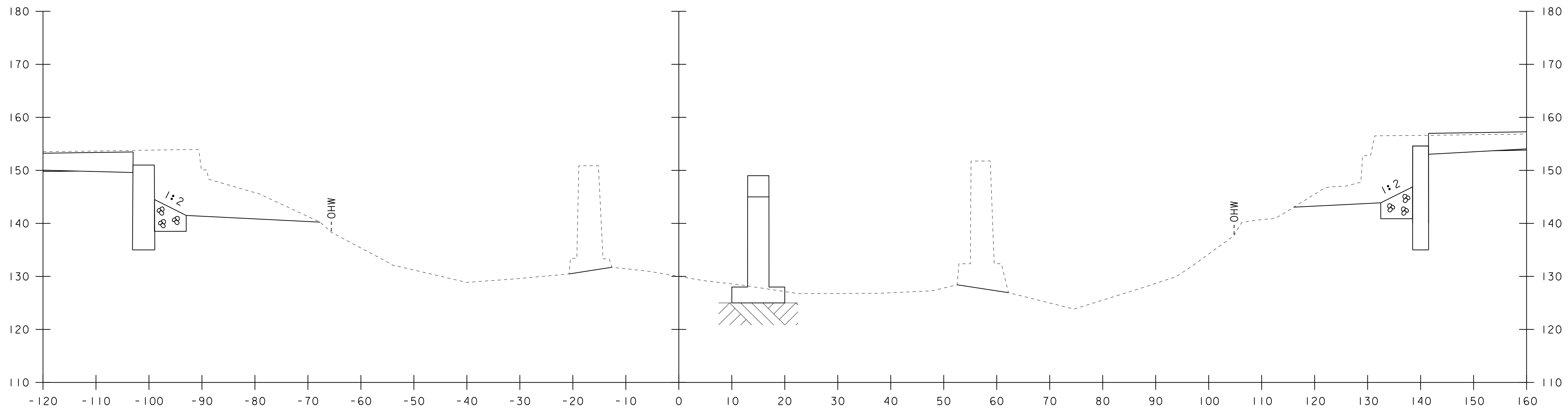
50+90



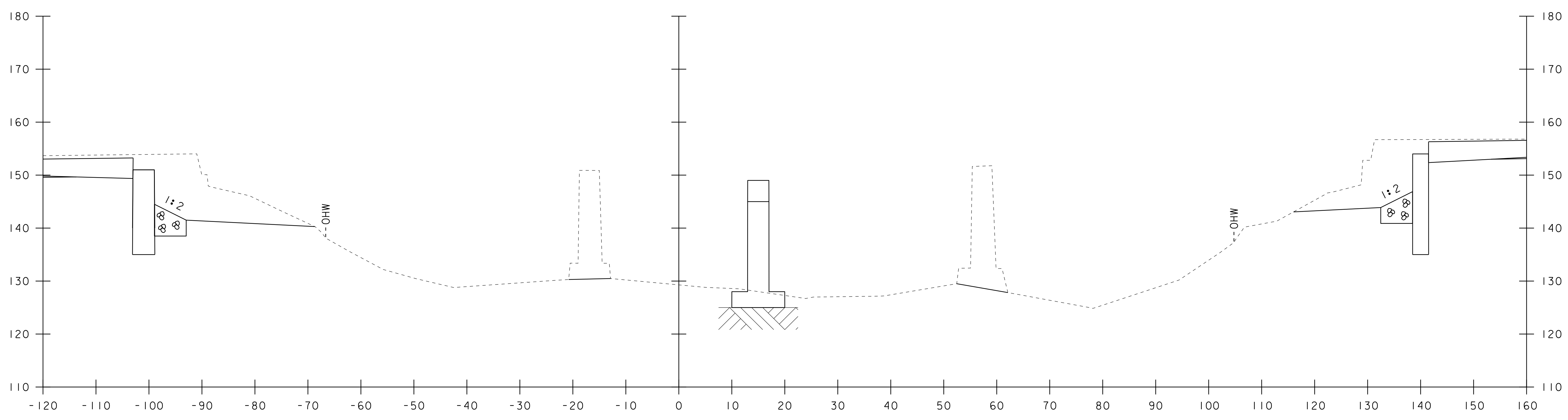
50+84

STA. 50+84 TO STA. 50+90

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 3	SHEET 27 OF 45



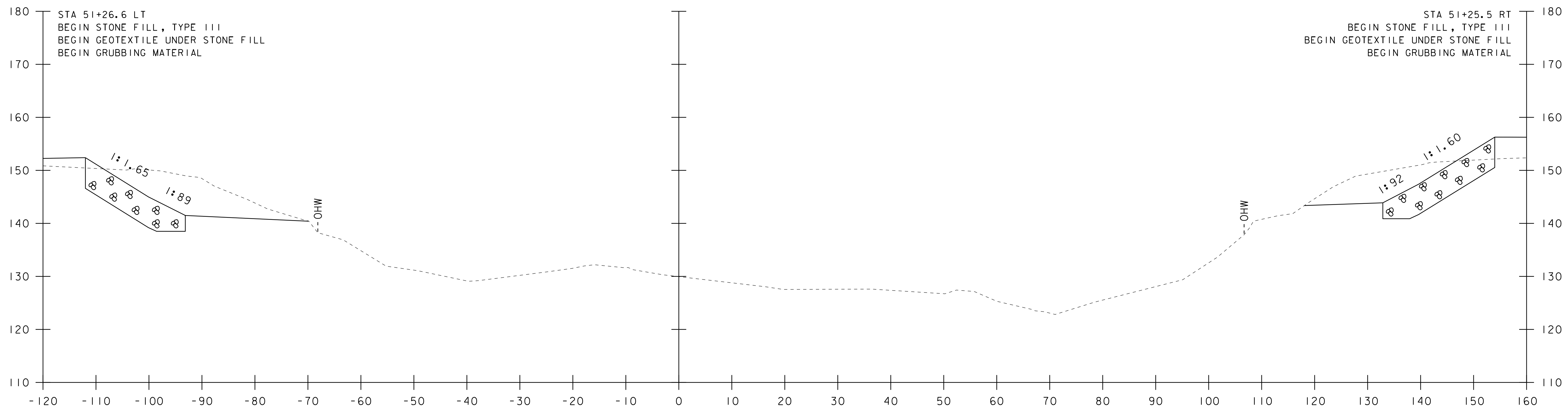
51+10



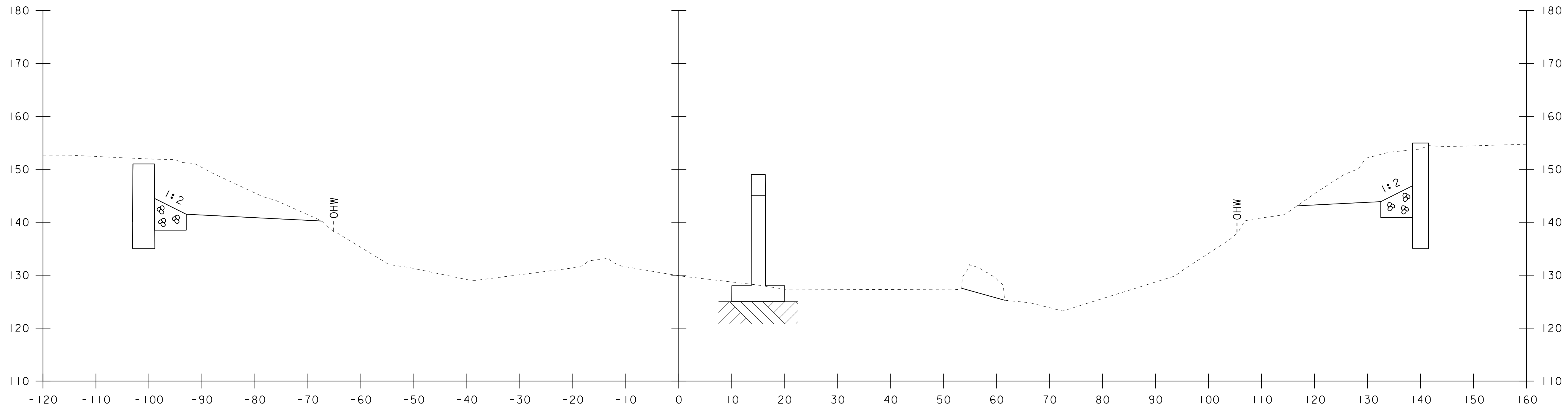
51+00

STA. 51+00 TO STA. 51+10

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 4	SHEET 28 OF 45



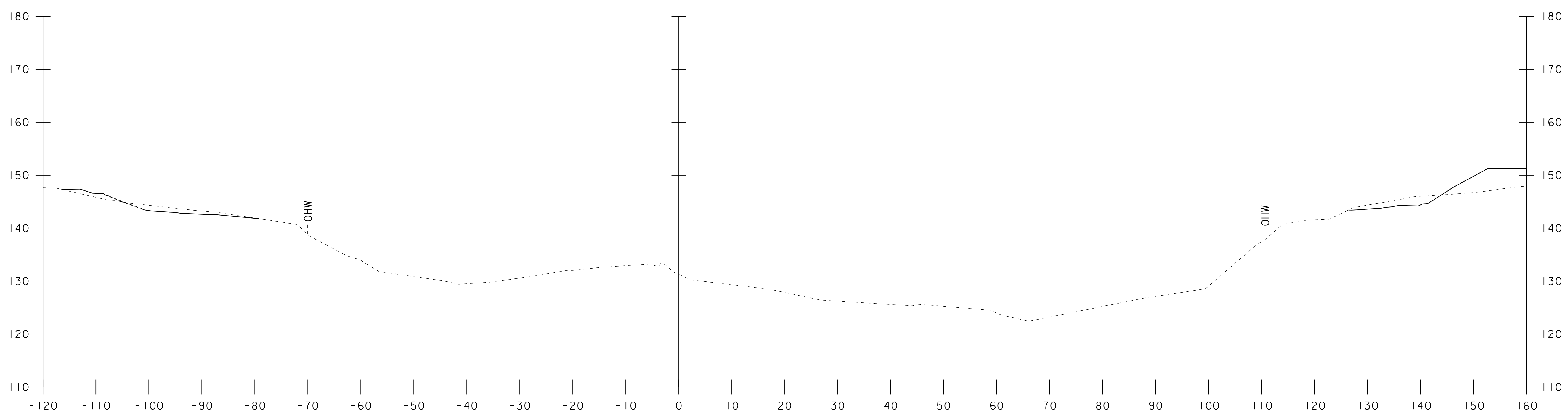
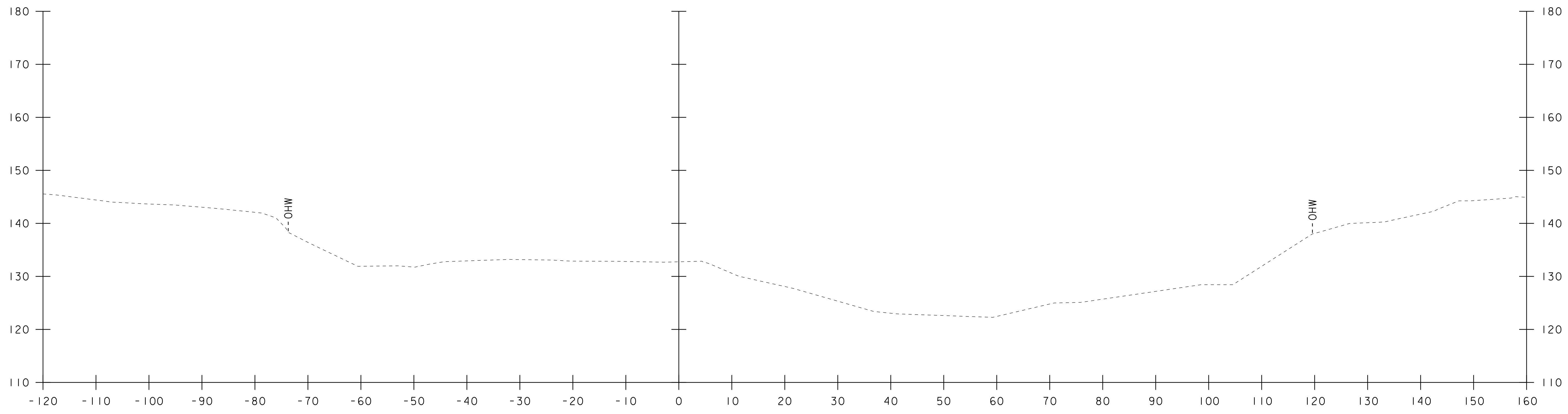
51+20



51+16

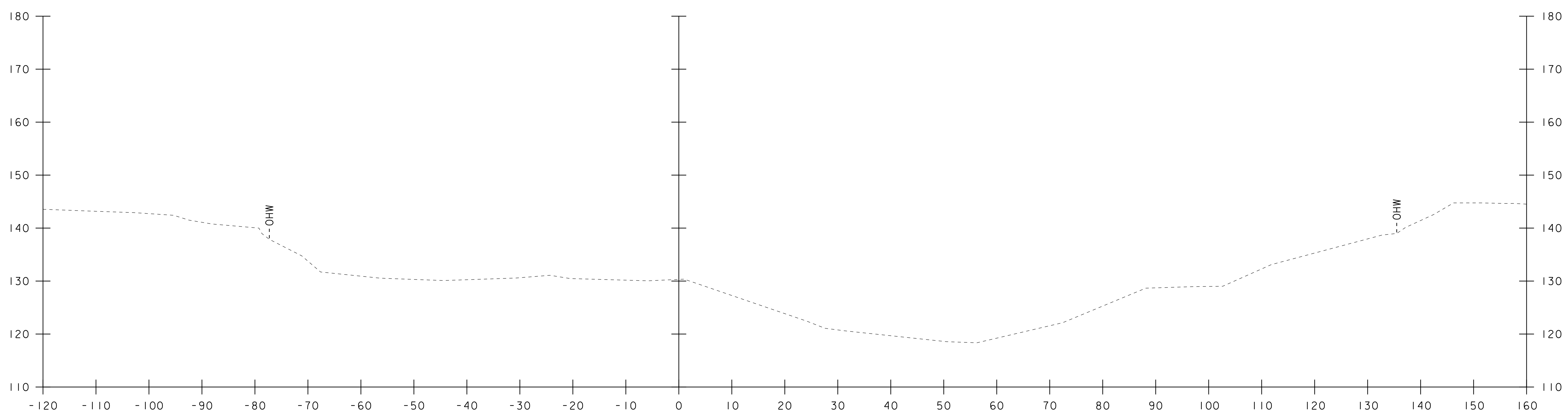
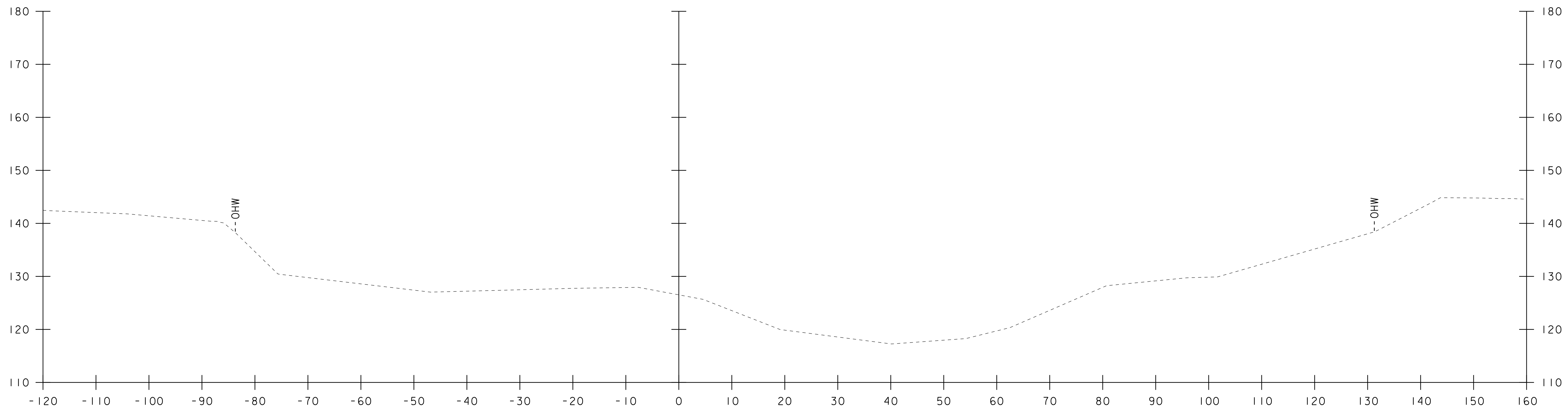
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PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 5	SHEET 29 OF 45



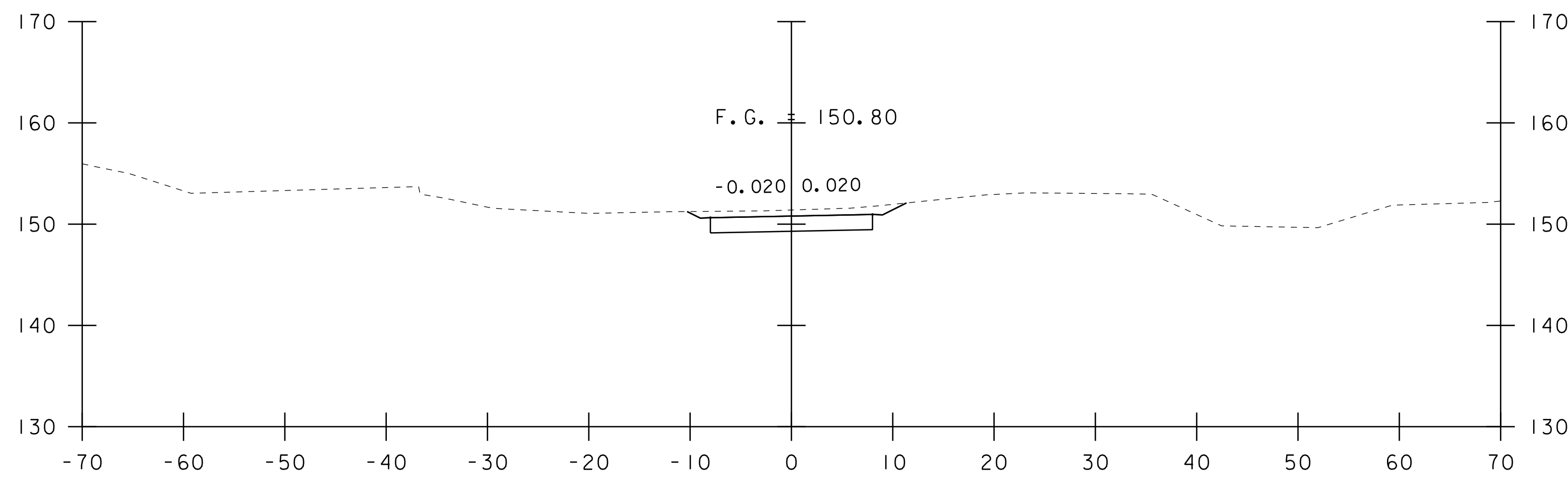
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PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 6	SHEET 30 OF 45

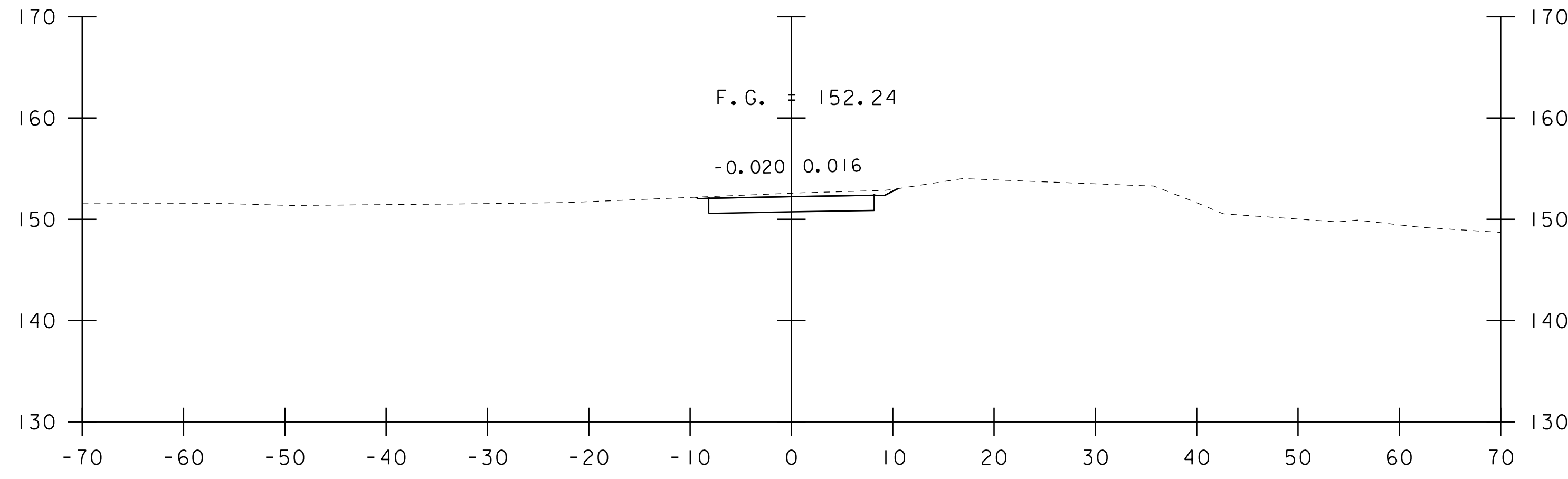


STA. 51+75 TO STA. 52+00

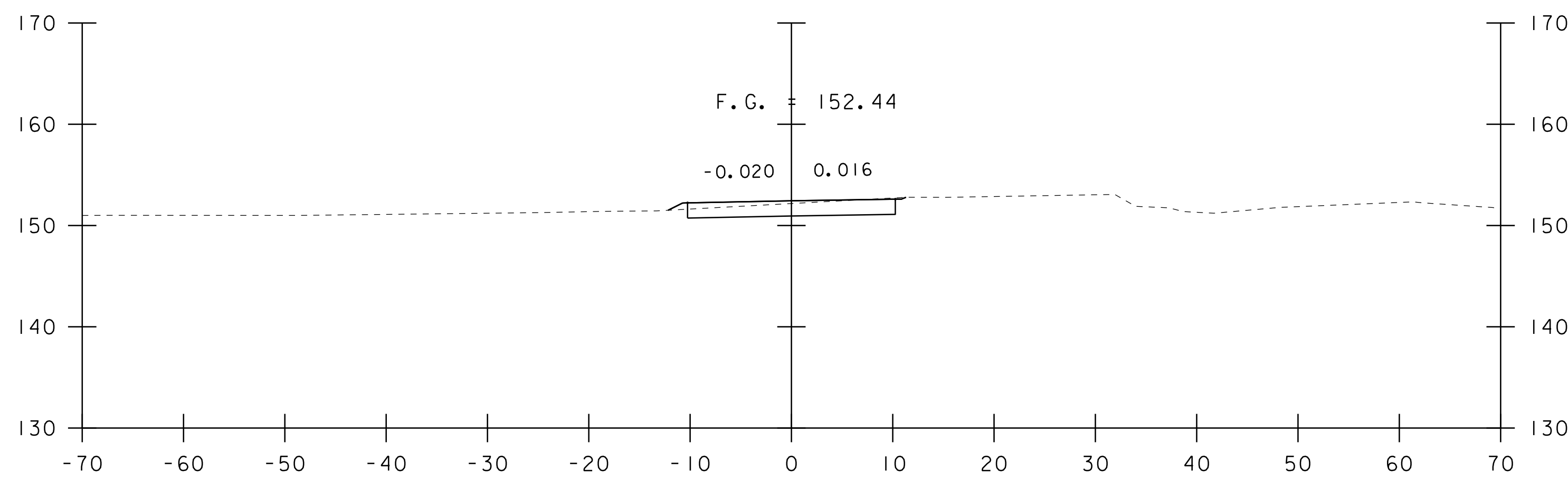
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 7	SHEET 31 OF 45



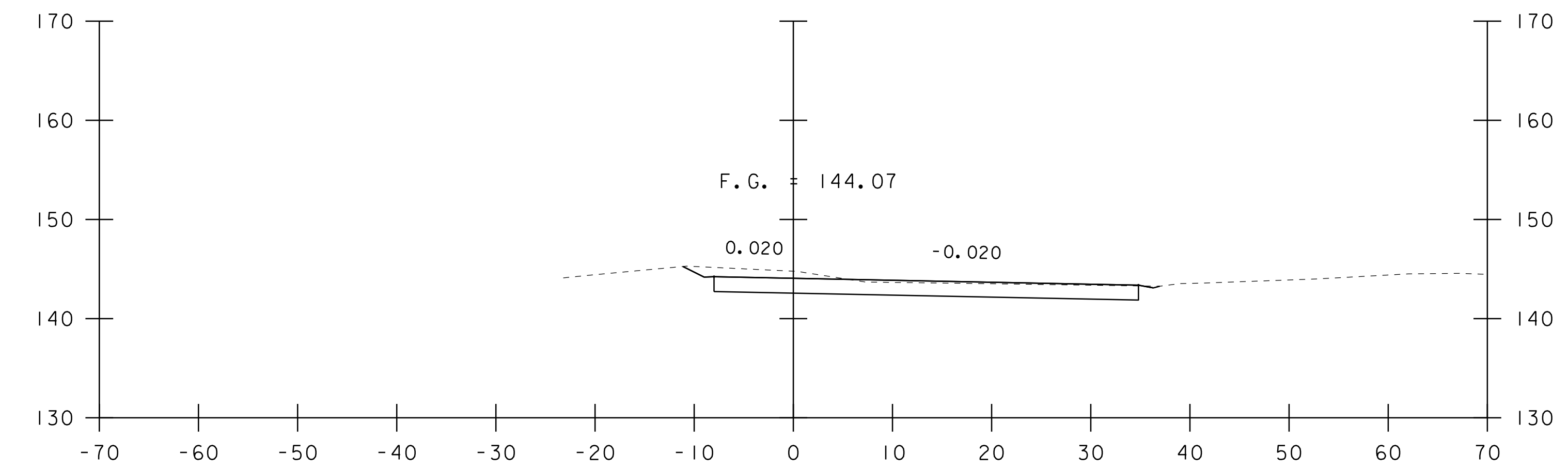
1+50



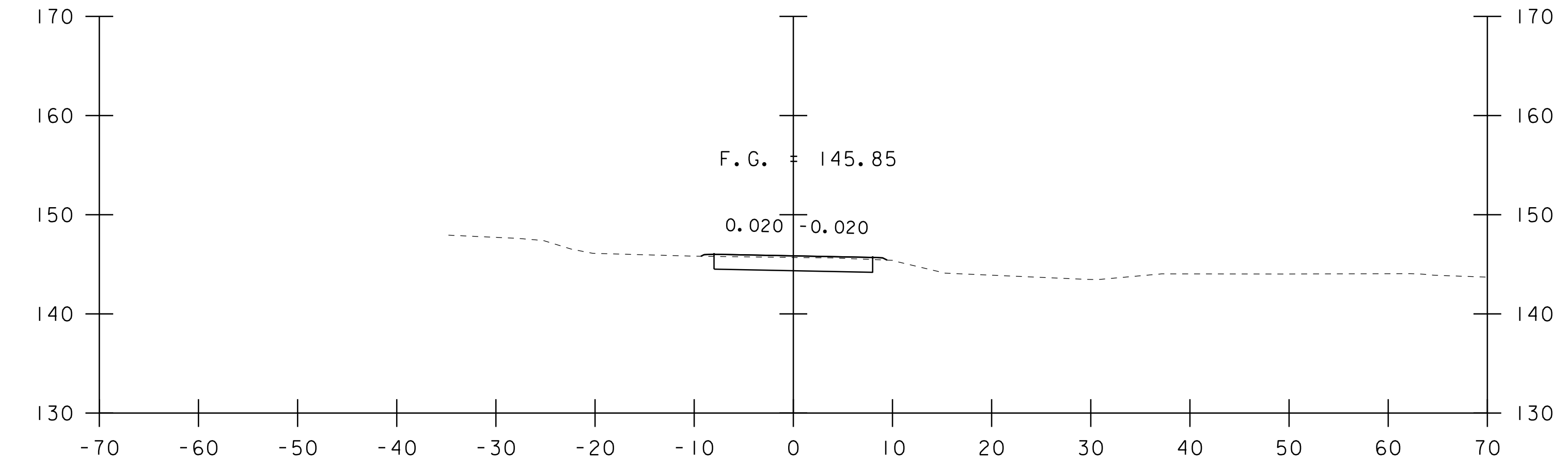
1+25



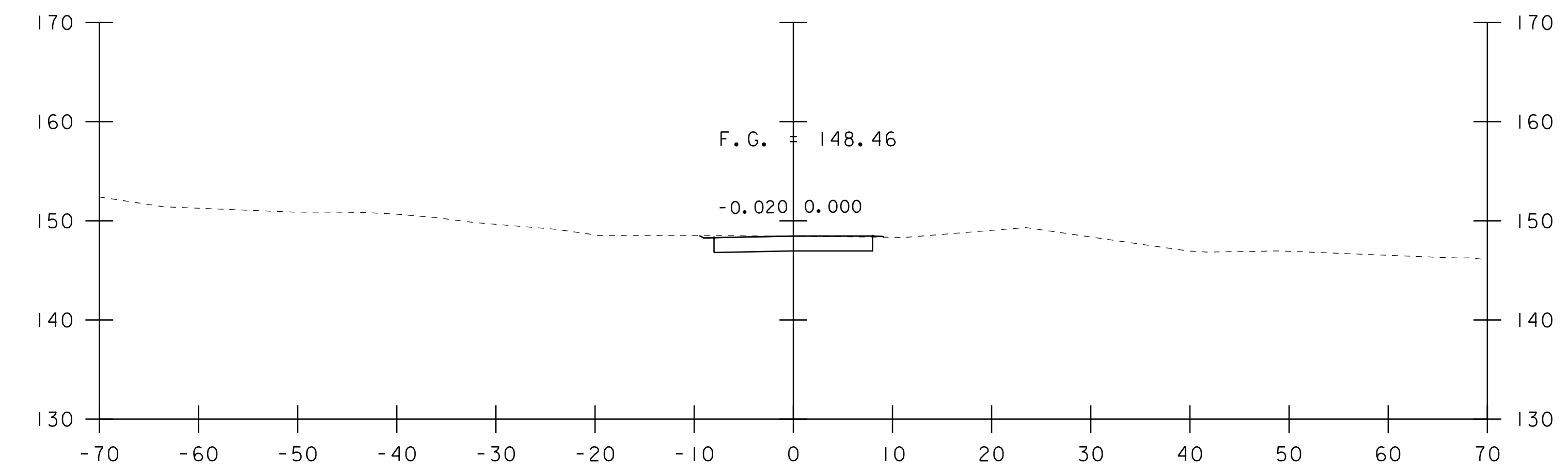
1+20



2+25



2+00

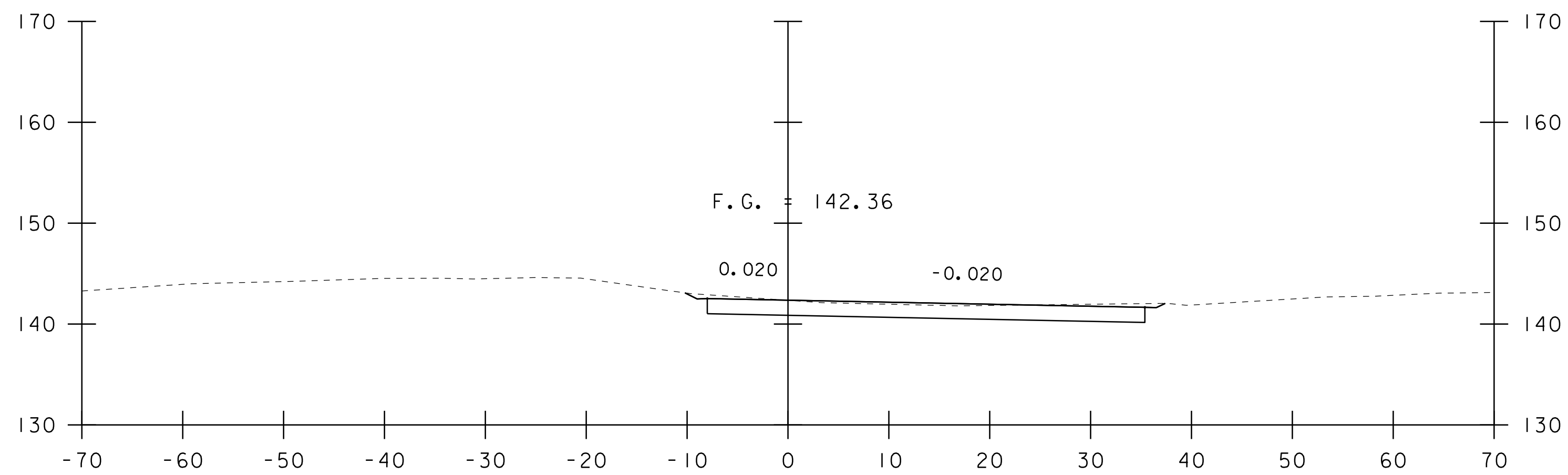


1+75

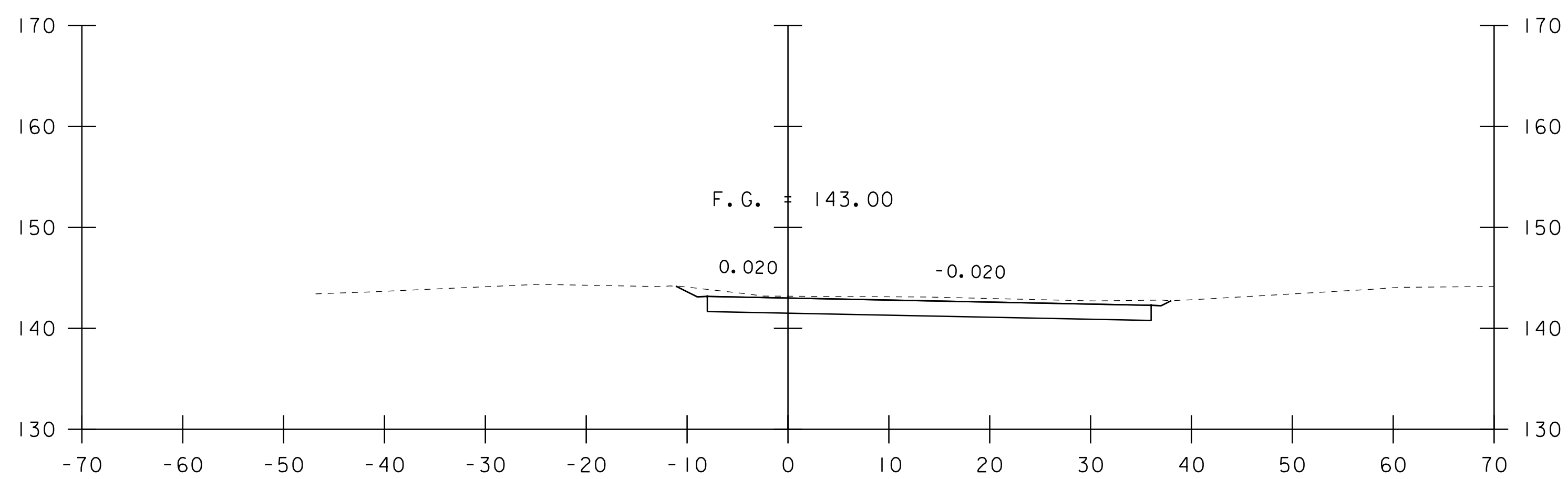
STA. 1+20 TO STA. 2+25

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: sl2b552xs.dgn	PLOT DATE: 15-NOV-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. OETERSIB
ACCESS DRIVE CROSS SECTIONS 1	SHEET 32 OF 45





2+66



2+50

STA. 2+50 TO STA. 2+66

PROJECT NAME: WEYBRIDGE-NEW HAVEN  
PROJECT NUMBER: BD 032-1(19)

FILE NAME: sl2b552xs.dgn PLOT DATE: 15-NOV-2016  
PROJECT LEADER: C.W. CARLSON DRAWN BY: M. LONGSTREET  
DESIGNED BY: D. PETERSON CHECKED BY: D. PETERSON  
ACCESS DRIVE CROSS SECTIONS 2 SHEET 33 OF 45

## EPSC PLAN NARRATIVE

### 1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE REMOVAL AND REPLACEMENT OF BRIDGE NUMBER 8 OVER THE OTTER CREEK. THE BRIDGE IS ON VT ROUTE 17, ON THE WEYBRIDGE - NEW HAVEN TOWN BOUNDARY. THE PROJECT IS APPROXIMATELY 3.0 MILES EAST OF THE JUNCTION WITH VT ROUTE 22A. THE SPAN OF THE PROPOSED BRIDGE IS 242.50 FEET. THE TOTAL PROJECT IS 725.00 FEET IN LENGTH INCLUDING THE BRIDGE.

NOTE: AREA OF DISTURBANCE INCLUDES LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, AS WELL AS WASTE, BORROW AND STAGING AREAS, AND OTHER EARTH DISTURBING ACTIVITIES WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS AS SHOWN ON THE ATTACHED EPSC PLAN.

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.61 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

### 1.2 SITE INVENTORY

#### 1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS RELATIVELY FLAT TERRAIN WITH CULTIVATED FARM LAND AND PASTURES. THERE IS LOW BRUSH AND SMALL TREE VEGETATION ON THE BANKS OF THE CREEK AND ALL FOUR CORNERS OF THE BRIDGE AS WELL AS ALONG SIDE VT 17 SURROUNDING THE BRIDGE. THERE ARE NO RESIDENTIAL STRUCTURES WITHIN THE PROJECT LIMITS. THERE IS ONE STORAGE BARN WITH A GRAVEL DRIVE LOCATED NEAR THE BEGIN PROJECT LOCATION SOUTH EAST OF THE BRIDGE.

#### 1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THE OTTER CREEK IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THE CREEK IS CLASSIFIED CLASS B, IT IS MEDIUM SIZE, HAS LEDGE AND SILT BOTTOM, THE WATER IS SLOW MOVING WITH A WIDE FLOOD PLAIN, THE BANKS ARE EQUIWIDTH WITH A SINUOSITY RATED AS IRREGULAR, WANDERING.

#### 1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF SMALL TREES AND UNDERGROWTH. THE IMPACT TO VEGETATION WILL BE LIMITED TO THAT WHICH IS DIRECTLY AFFECTED BY REPLACEMENT OF BRIDGE. UPON PROJECT COMPLETION, THE CHANNEL WILL BE ARMORED WITH STONE FILL TYPE IV AS SPECIFIED ON THE PLANS. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

#### 1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF ADDISON, VERMONT. SOILS ON THE PROJECT SITE ARE:

- Cw—Covington and Panton silty clays
- FaC—Farmington extremely rocky silt loam
- Lf—Limerick silt loam, very wet
- Wo—Winooski very fine sandy loam

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

#### 1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO  
HISTORICAL OR ARCHEOLOGICAL AREAS: YES, ON 3 CORNERS (SEE PLANS FOR LOCATION)  
PRIME AGRICULTURAL LAND: NO  
THREATENED AND ENDANGERED SPECIES: YES, FRESHWATER MUSSELS AND INDIANA BAT  
WATER RESOURCE: OTTER CREEK  
WETLANDS: YES, ON (3) CORNERS, ONLY THE NORTH-EAST SIDE OF THE BRIDGE IS THERE DIRECT CONTACT WITH THE PROJECT LIMITS OF CONSTRUCTION

### 1.3 RISK EVALUATION

THIS PROJECT FALLS UNDER THE JURISDICTION OF 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.

### 1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL 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.

#### 1.4.1 MARK SITE BOUNDARIES

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

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC).

#### 1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS, WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

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

#### 1.4.3 SITE ENTRANCE/EXIT STABILIZATION

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 SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

#### 1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP-SLOPE WORK.

SILT FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, WOVEN WIRE REINFORCED SILT FENCE SHALL BE USED INSTEAD OF SILT FENCE WITHIN 100 FEET UPSLOPE OF RECEIVING WATERS.

FILTER CURTAIN WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

#### 1.4.5 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. THEREFORE, IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

#### 1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSION POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS. STONE CHECK DAMS ARE NOT ANTICIPATED AT THIS TIME.

#### 1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT NOT ANTICIPATED ON THIS PROJECT.

#### 1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.

THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

#### 1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). THE PIER WILL BE CONSTRUCTED IN THE FALL OF ONE CONSTRUCTION SEASON AND REMAINDER OF THE BRIDGE WILL BE CONSTRUCTED THE FOLLOWING CONSTRUCTION SEASON. ANY CHANNEL OR CAUSEWAY EXCAVATION SHALL BE PREPARED FOR WINTER STABILIZATION. REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

#### 1.4.10 STABILIZE SOIL 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, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

#### 1.4.11 DE-WATERING ACTIVITIES

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.

TREATMENT OF DEWATERING COFFERDAM IS ANTICIPATED. A LOCATION FOR TREATMENT HAS BEEN PROPOSED AND IS SHOWN ON THE PLANS. HOWEVER, THE SPECIFIC MEANS FOR TREATMENT OF DISCHARGE SHALL BE PROVIDED BY THE CONTRACTOR.

#### 1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS. NO KNOW SPECIAL SITE SPECIFIC OR GENERAL PERMIT INSPECTION REQUIREMENTS.

### 1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

#### 1.5.1 CONSTRUCTION SEQUENCE

#### 1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SPECIFICATION 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

#### 1.5.3 UPDATES

PROJECT NAME: WEYBRIDGE-NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

FILE NAME: sl2b552er.onar.dgn

PROJECT LEADER: C.W. CARLSON

DESIGNED BY: D. PETERSON

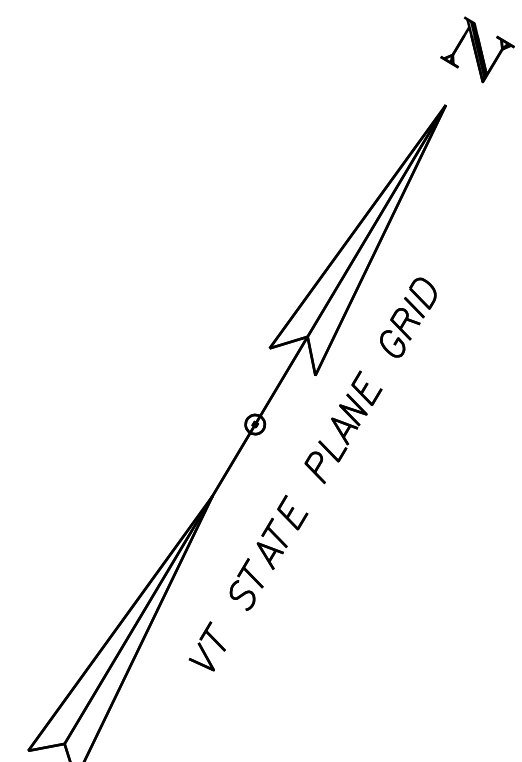
EPSC NARRATIVE

PLOT DATE: 15-NOV-2016

DRAWN BY: M. LONGSTREET

CHECKED BY: D. PETERSON

SHEET 34 OF 45



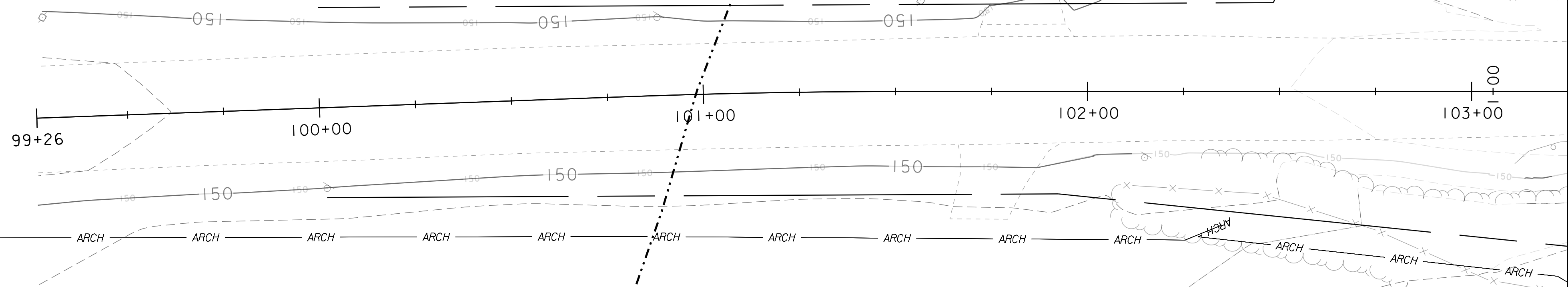
SOIL INFORMATION:  
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 (NOT HIGHLY ERODIBLE)  
 K-FACTOR = .49/.49, 0%-3% SLOPES  
 HYDROLOGICAL SOIL GROUP: D

SOIL INFORMATION:  
 FARMINGTON EXTREMELY ROCKY SILT LOAM  
 (POTENTIALLY HIGHLY ERODIBLE)  
 K-FACTOR = .32, 5%-20% SLOPES  
 HYDROLOGICAL SOIL GROUP: D

SOIL INFORMATION:  
 WINOOSKI VERY FINE/SANDY LOAM  
 (NOT HIGHLY ERODIBLE)  
 K-FACTOR = .49, 0%-3% SLOPES  
 HYDROLOGICAL SOIL GROUP: B

HISTORIC

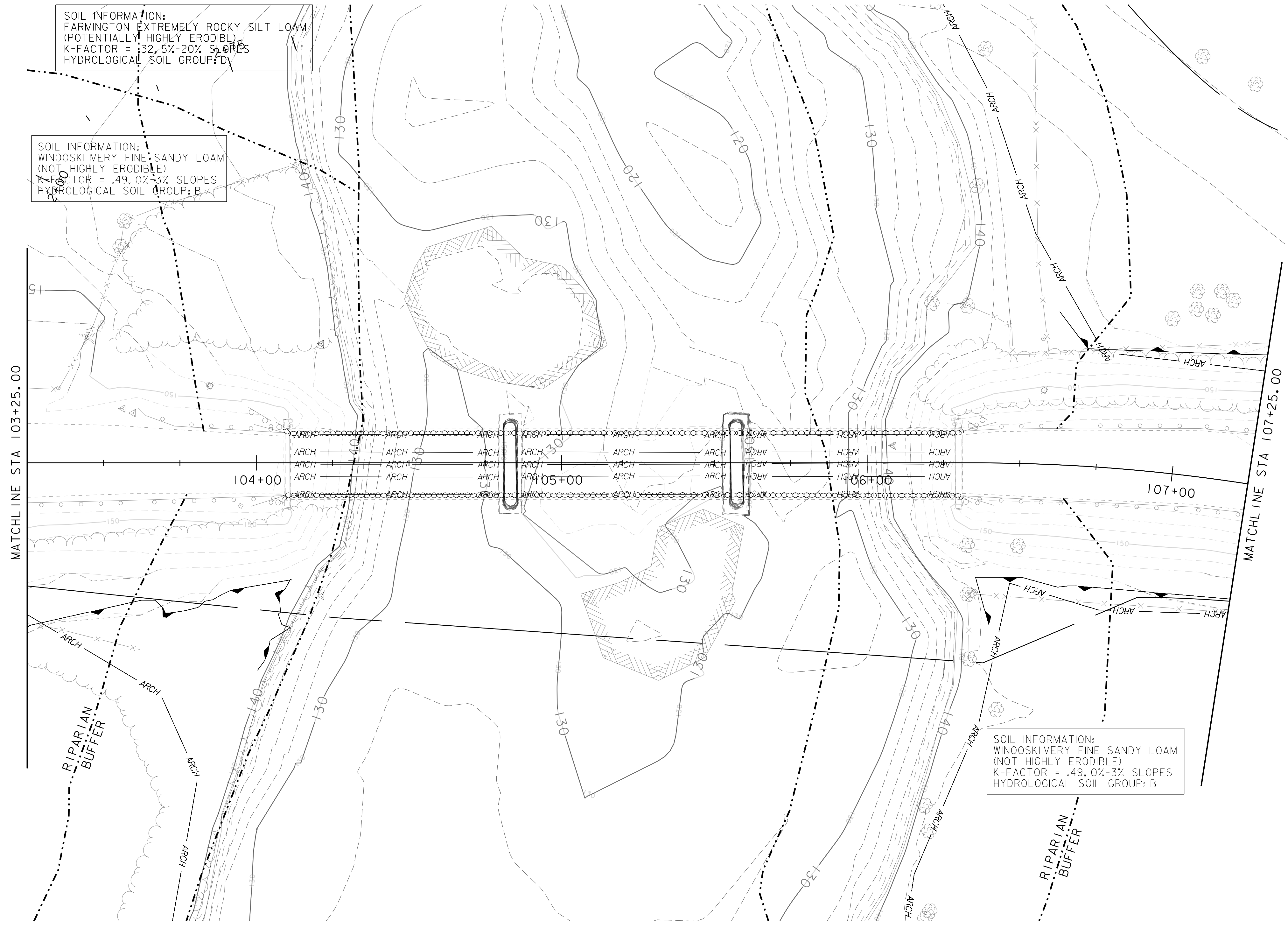
HISTORIC



MATCHLINE STA 103+25.00

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

PROJECT NAME:	WEYBRIDGE-NEW HAVEN	PLOT DATE:	15-NOV-2016
PROJECT NUMBER:	BF 032-1(19)	DRAWN BY:	M. LONGSTREET
FILE NAME:	I2b552/sI2b552border.dgn	DESIGNED BY:	M. LONGSTREET
PROJECT LEADER:	C.W. CARLSON	CHECKED BY:	D. PETERSON
EPSC EXISTING LAYOUT 1		SHEET	35 OF 45



SOIL INFORMATION:  
 FARMINGTON EXTREMELY ROCKY SILT LOAM  
 (POTENTIALLY HIGHLY ERODIBLE)  
 K-FACTOR = .32, 5%-20% SLOPES  
 HYDROLOGICAL SOIL GROUP: D

SOIL INFORMATION:  
 WINOSKI VERY FINE SANDY LOAM  
 (NOT HIGHLY ERODIBLE)  
 K-FACTOR = .49, 0%-3% SLOPES  
 HYDROLOGICAL SOIL GROUP: B

SOIL INFORMATION:  
 WINOSKI VERY FINE SANDY LOAM  
 (NOT HIGHLY ERODIBLE)  
 K-FACTOR = .49, 0%-3% SLOPES  
 HYDROLOGICAL SOIL GROUP: B

MATCHLINE STA 103+25.00

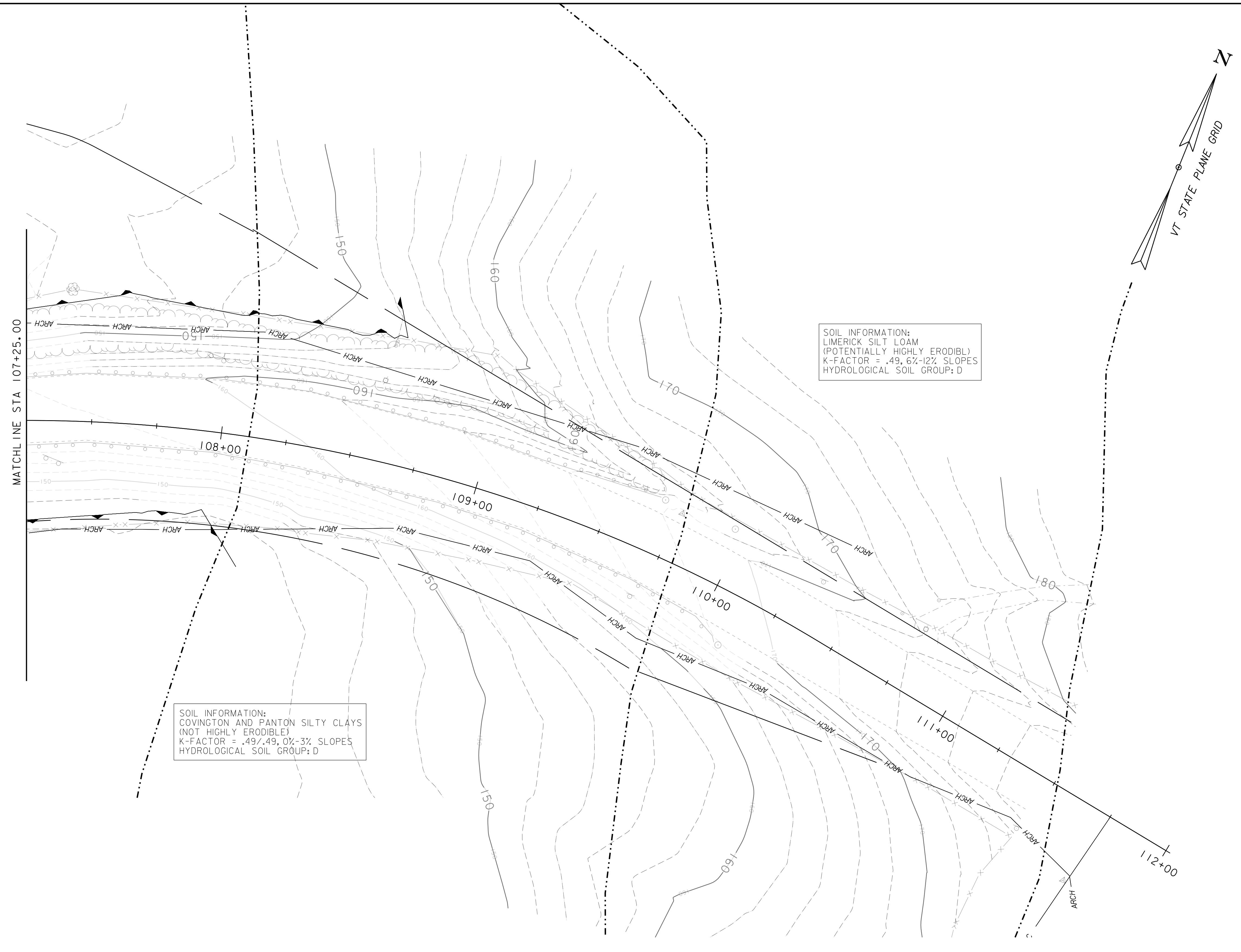
MATCHLINE STA 107+25.00

RIPARIAN  
 BUFFER

RIPARIAN  
 BUFFER

SCALE 1" = 20' - 0"  
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PROJECT NAME: WEYBRIDGE-NEW HAVEN	PLOT DATE: 15-NOV-2016
PROJECT NUMBER: BF 032-1(19)	DRAWN BY: M. LONGSTREET
FILE NAME: i2b552/si2b552border.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C.W. CARLSON	SHEET 36 OF 45
DESIGNED BY: M. LONGSTREET	
EPSC EXISTING LAYOUT 2	



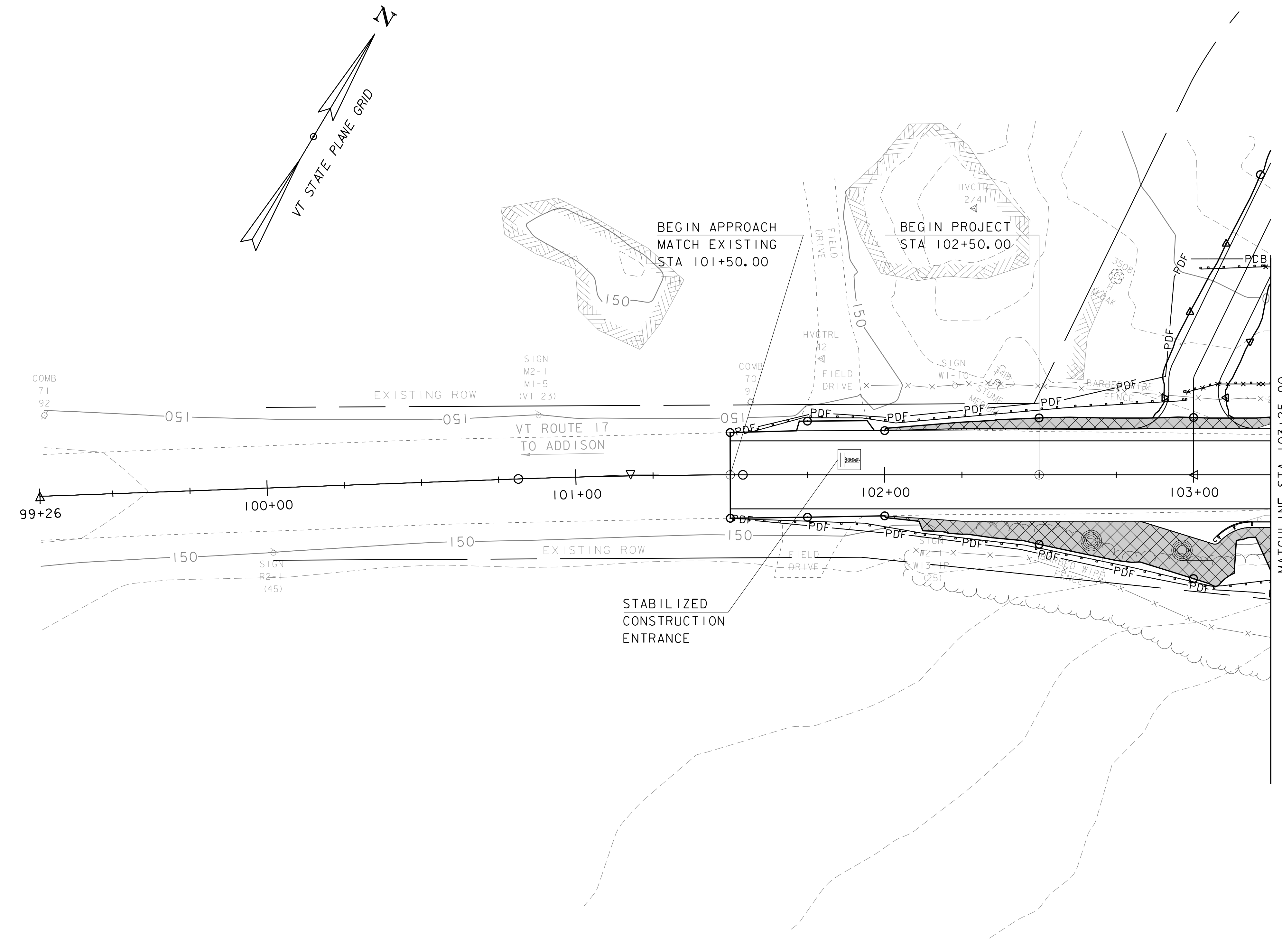
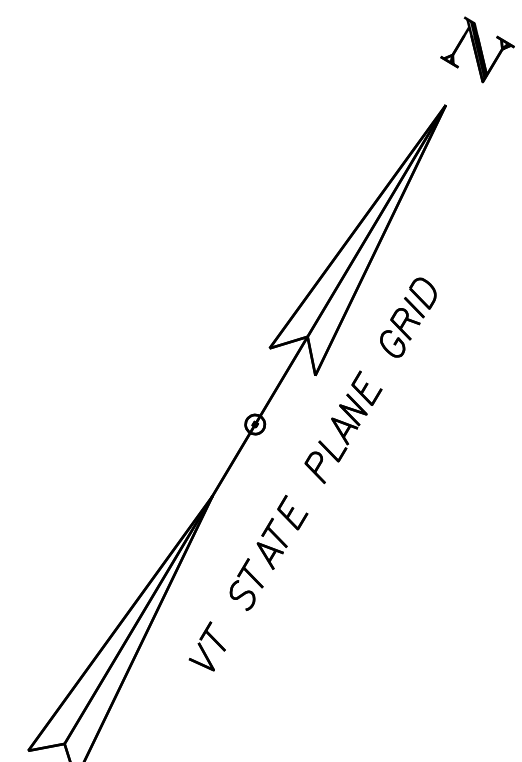
MATCHLINE STA 107+25.00

SOIL INFORMATION:  
 LIMERICK SILT LOAM  
 (POTENTIALLY HIGHLY ERODIBLE)  
 K-FACTOR = .49, 6%-12% SLOPES  
 HYDROLOGICAL SOIL GROUP: D

SOIL INFORMATION:  
 COVINGTON AND PANTON SILTY CLAYS  
 (NOT HIGHLY ERODIBLE)  
 K-FACTOR = .49/.49, 0%-3% SLOPES  
 HYDROLOGICAL SOIL GROUP: D

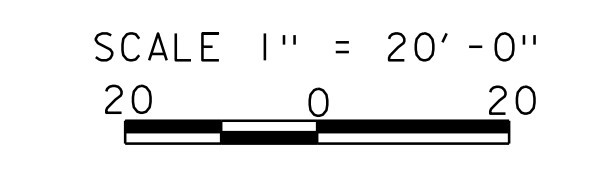
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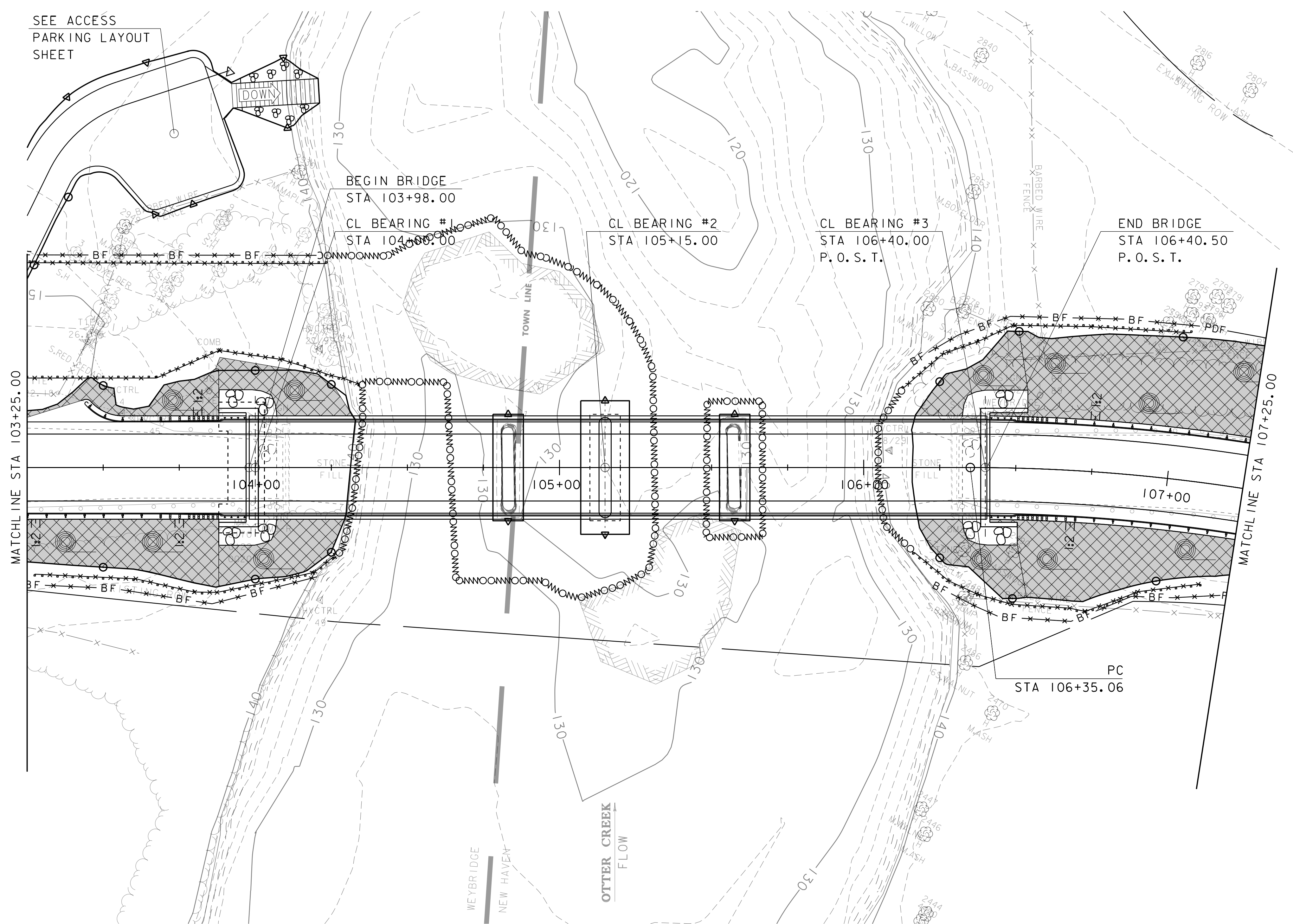
PROJECT NAME: WEYBRIDGE-NEW HAVEN	PLOT DATE: 15-NOV-2016
PROJECT NUMBER: BF 032-1(19)	DRAWN BY: M. LONGSTREET
FILE NAME: I2b552/sI2b552border.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C.W. CARLSON	SHEET 37 OF 45
DESIGNED BY: M. LONGSTREET	
EPSC EXISTING LAYOUT 3	



MATCHLINE STA 103+25.00

PROJECT NAME: WEYBRIDGE-NEW HAVEN	PLOT DATE: 15-NOV-2016
PROJECT NUMBER: BF 032-1(19)	DRAWN BY: M. LONGSTREET
FILE NAME: I2b552/sI2b552border.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C.W. CARLSON	SHEET 38 OF 45
DESIGNED BY: M. LONGSTREET	
EPSC CONSTRUCTION LAYOUT I	





SEE ACCESS  
PARKING LAYOUT  
SHEET

BEGIN BRIDGE  
STA 103+98.00

CL BEARING #1  
STA 104+00.00

CL BEARING #2  
STA 105+15.00

CL BEARING #3  
STA 106+40.00  
P.O.S.T.

END BRIDGE  
STA 106+40.50  
P.O.S.T.

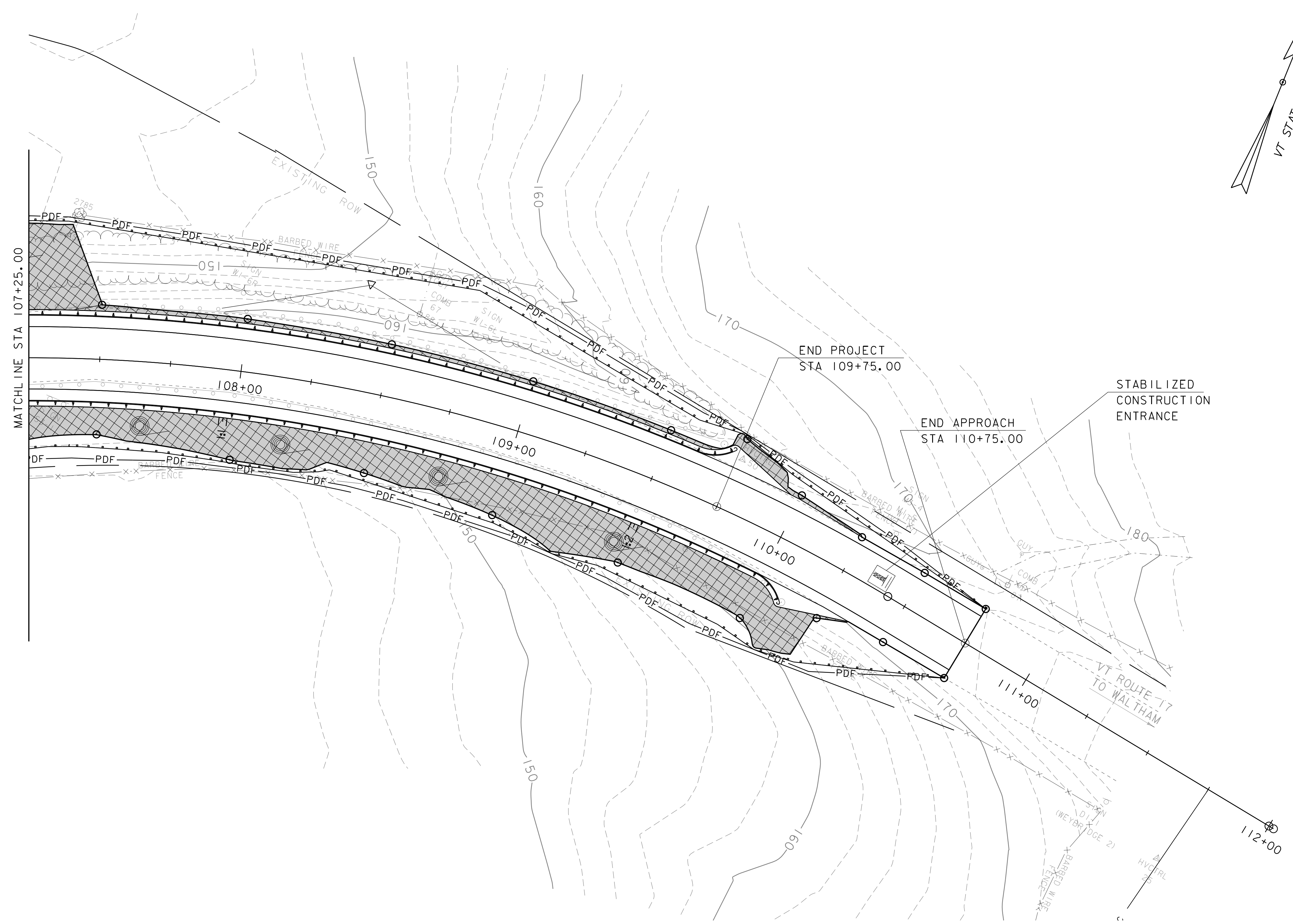
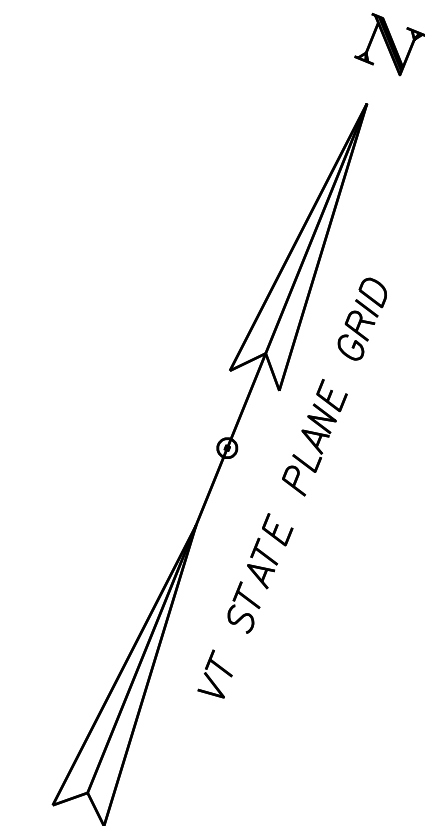
MATCHLINE STA 103+25.00

MATCHLINE STA 107+25.00

PC  
STA 106+35.06

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

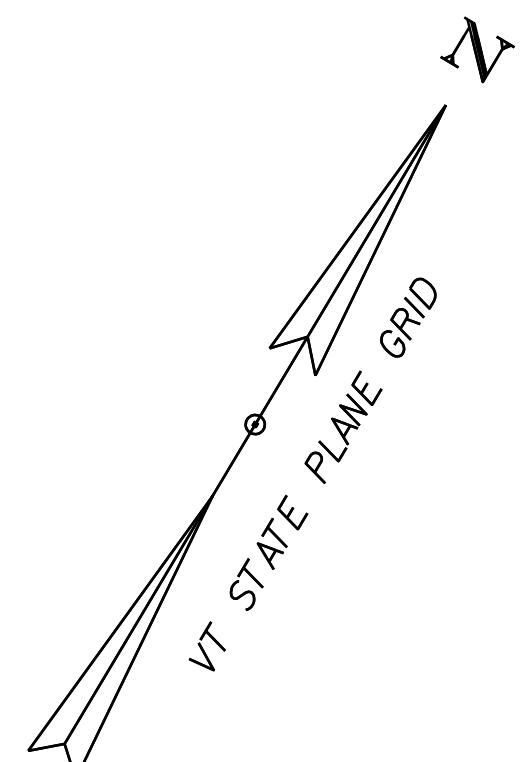
PROJECT NAME:	WEYBRIDGE-NEW HAVEN	PLOT DATE:	15-NOV-2016
PROJECT NUMBER:	BF 032-1(19)	DRAWN BY:	M. LONGSTREET
FILE NAME:	12b552/s12b552border.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C.W. CARLSON	SHEET	39 OF 45
DESIGNED BY:	M. LONGSTREET		
EPSC CONSTRUCTION LAYOUT 2			



SCALE 1" = 20' - 0"  
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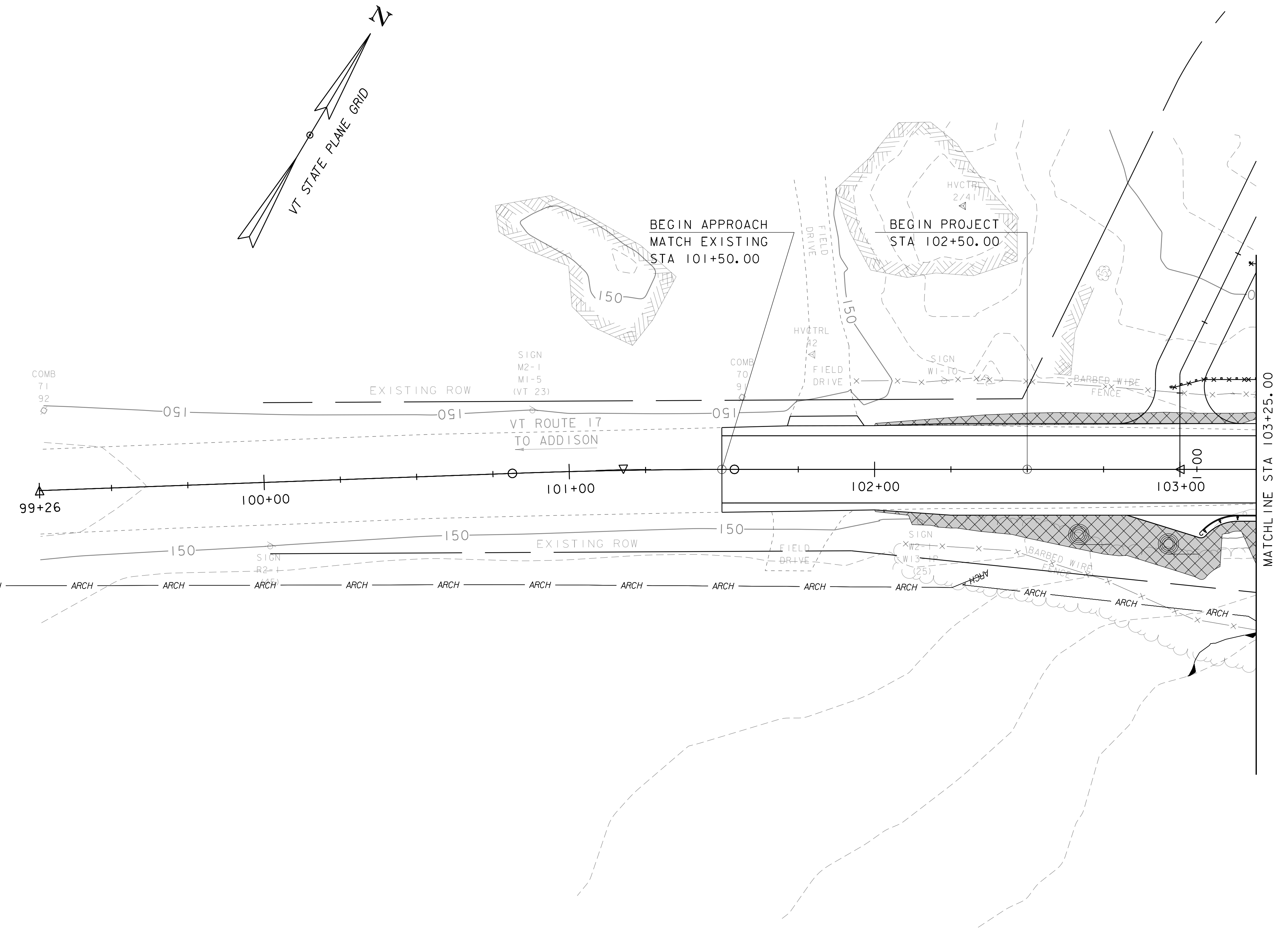
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PROJECT NUMBER: BF 032-1(19)	DRAWN BY: M. LONGSTREET
FILE NAME: i2b552/si2b552border.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C.W. CARLSON	SHEET 40 OF 45
DESIGNED BY: M. LONGSTREET	
EPSC CONSTRUCTION LAYOUT 3	





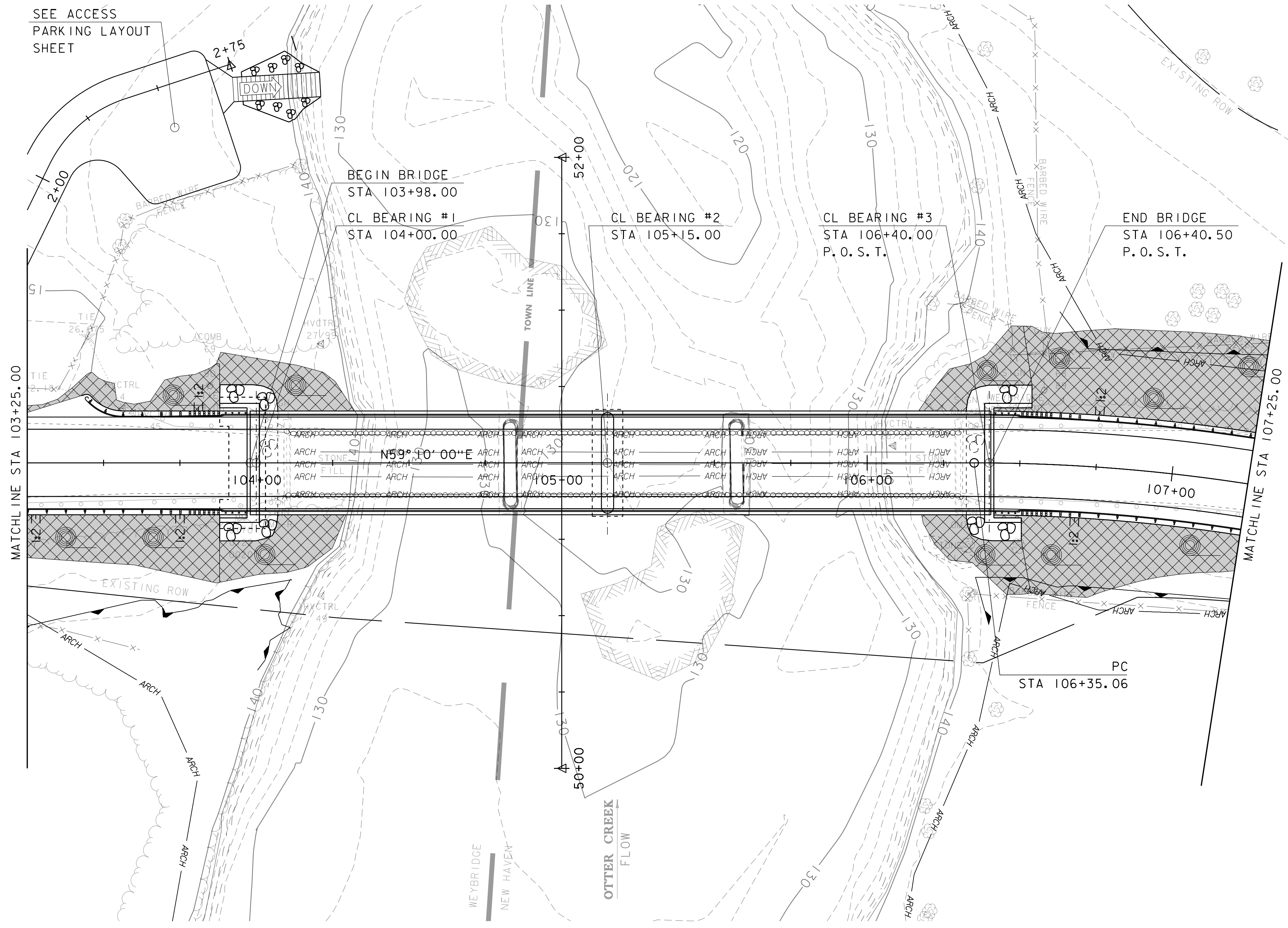
BEGIN APPROACH  
MATCH EXISTING  
STA 101+50.00

BEGIN PROJECT  
STA 102+50.00



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

PROJECT NAME: WEYBRIDGE-NEW HAVEN	PLOT DATE: 15-NOV-2016
PROJECT NUMBER: BF 032-1(19)	DRAWN BY: M. LONGSTREET
FILE NAME: i2b552/si2b552border.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C.W. CARLSON	SHEET 41 OF 45
DESIGNED BY: M. LONGSTREET	
EPSC FINAL LAYOUT 1	



SEE ACCESS  
PARKING LAYOUT  
SHEET

BEGIN BRIDGE  
STA 103+98.00  
CL BEARING #1  
STA 104+00.00

CL BEARING #2  
STA 105+15.00

CL BEARING #3  
STA 106+40.00  
P. O. S. T.

END BRIDGE  
STA 106+40.50  
P. O. S. T.

MATCHLINE STA 103+25.00

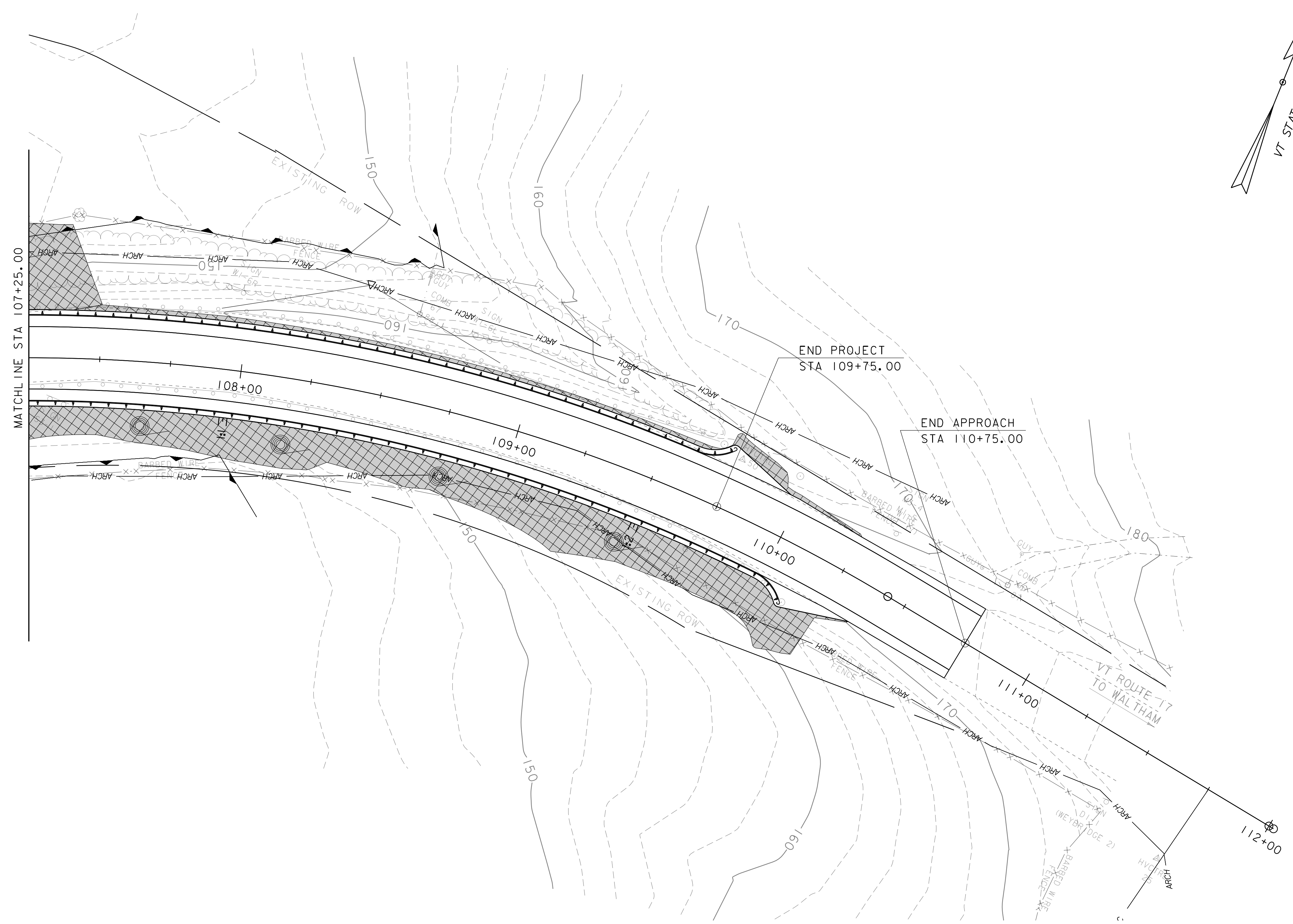
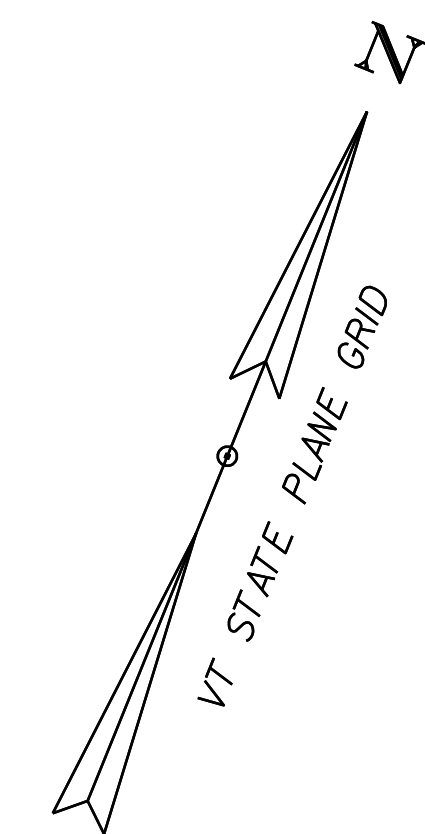
MATCHLINE STA 107+25.00

N59°10'00"E

PC  
STA 106+35.06

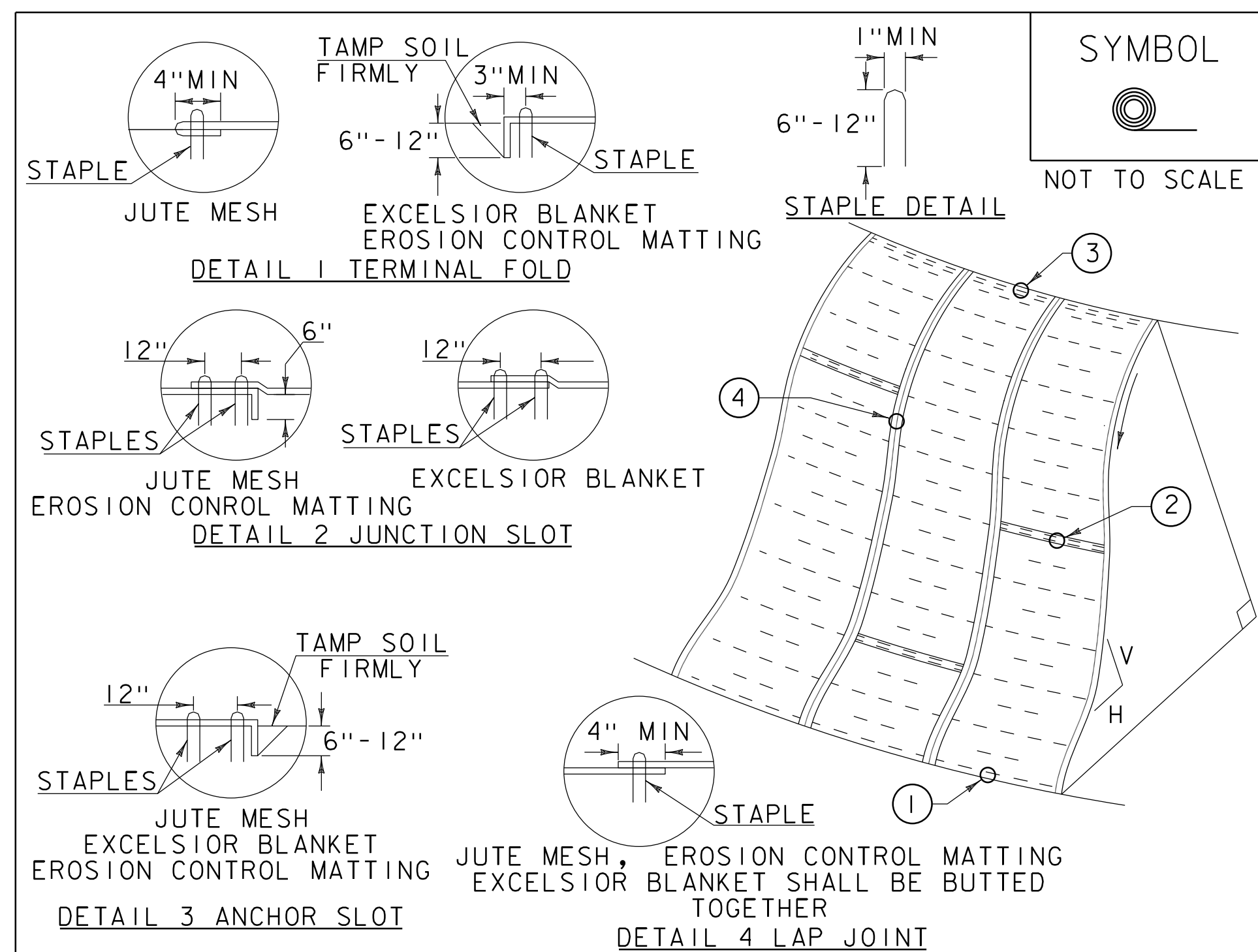
SCALE 1" = 20' - 0"  
20 0 20

PROJECT NAME:	WEYBRIDGE-NEW HAVEN	PLOT DATE:	15-NOV-2016
PROJECT NUMBER:	BF 032-1(19)	DRAWN BY:	M. LONGSTREET
FILE NAME:	12b552/s12b552border.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C.W. CARLSON	SHEET	42 OF 45
DESIGNED BY:	M. LONGSTREET		
EPSC FINAL LAYOUT 2			



PROJECT NAME:	WEYBRIDGE-NEW HAVEN	PLOT DATE:	15-NOV-2016
PROJECT NUMBER:	BF 032-1(19)	DRAWN BY:	M. LONGSTREET
FILE NAME:	I2b552/sI2b552border.dgn	CHECKED BY:	D. PETERSON
PROJECT LEADER:	C.W. CARLSON	SHEET	43 OF 45
DESIGNED BY:	M. LONGSTREET		
EPSC FINAL LAYOUT 3			

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



**CONSTRUCTION SPECIFICATIONS**

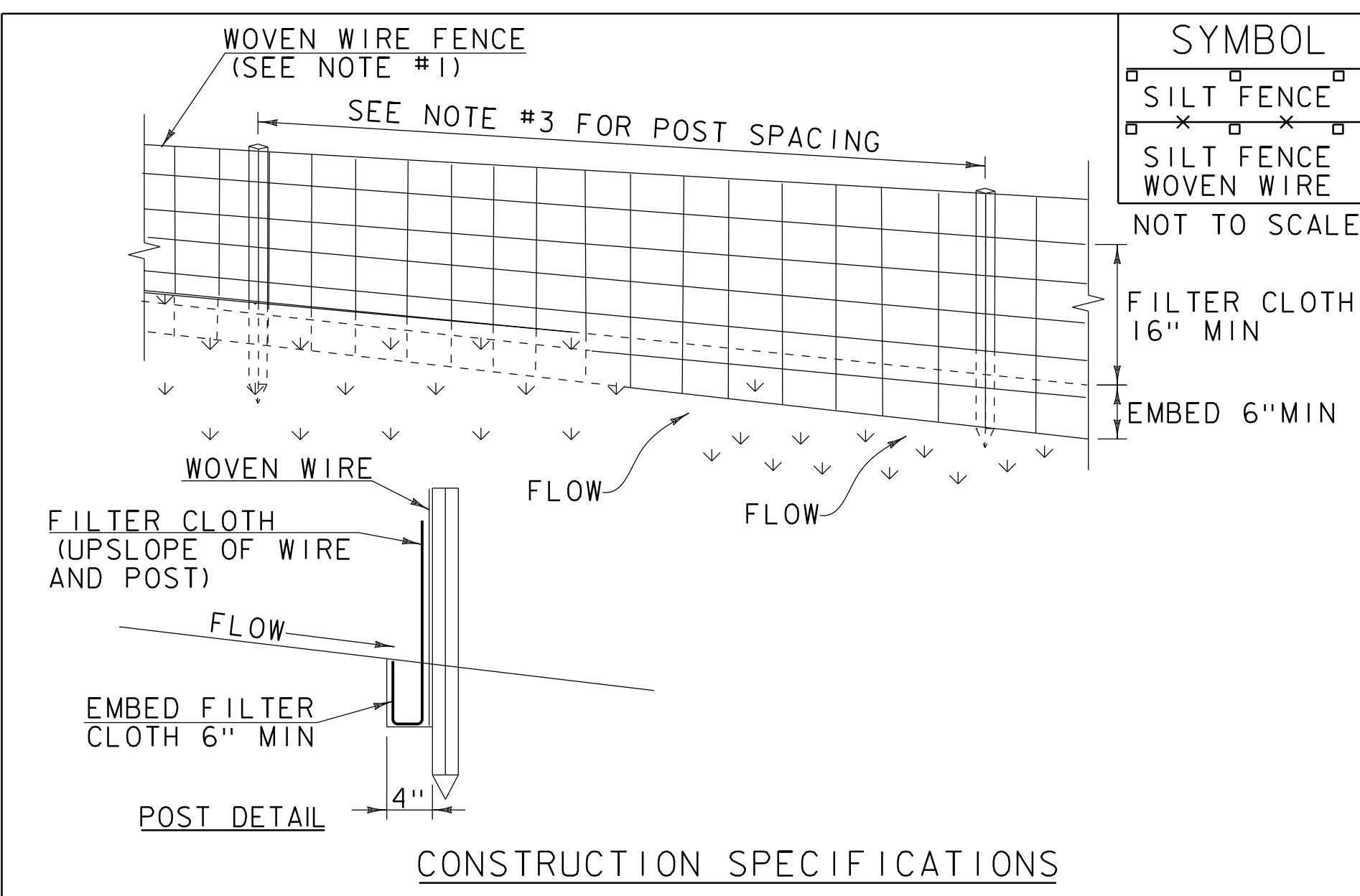
1. APPLY TO SLOPES GREATER THAN 3H: 1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4' X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4' X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

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

**ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE**

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 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) OR PERMANENT EROSION MATTING (PAY ITEM 653.21).

REVISIONS		
APRIL 16, 2007	JMF	
JANUARY 13, 2009	WHF	



**CONSTRUCTION SPECIFICATIONS**

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

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

**SILT FENCE**

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 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).

REVISIONS		
MARCH 21, 2008	WHF	
DECEMBER 11, 2008	WHF	
JANUARY 13, 2009	WHF	

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.

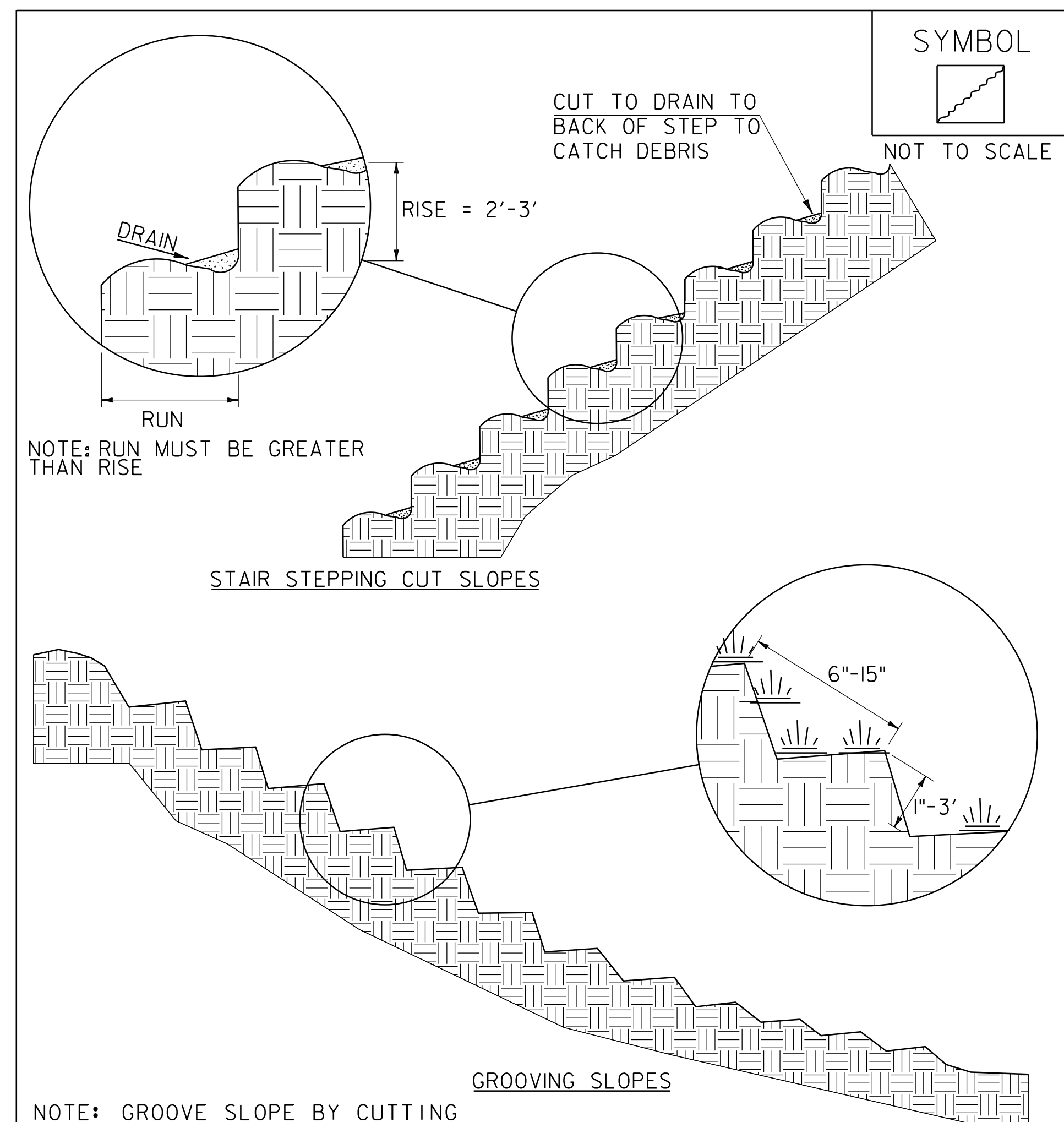
ADAPTED FROM VTRANS TECHNICAL LANDSCAPE MANUAL FOR ROADWAYS AND TRANSPORTATION FACILITIES

**TURF ESTABLISHMENT**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 651 FOR SEED (PAY ITEM 651.5)

REVISIONS		
JANUARY 12, 2015	WHF	

PROJECT NAME: WEYBRIDGE-NEW HAVEN  
PROJECT NUMBER: BF 032-1(19)  
FILE NAME: sl2b552eronar.dgn  
PROJECT LEADER: C.W. CARLSON  
DESIGNED BY: D. PETERSON  
EPSC DETAILS 1  
PLOT DATE: 15-NOV-2016  
DRAWN BY: M. LONGSTREET  
CHECKED BY: D. PETERSON  
SHEET 44 OF 45



NOTE: GROOVE SLOPE BY CUTTING FURROWS ALONG THE CONTOUR. IRREGULARITIES IN THE SOIL SURFACE CATCH RAINWATER AND RETAIN LIME, FERTILIZER AND SEED.

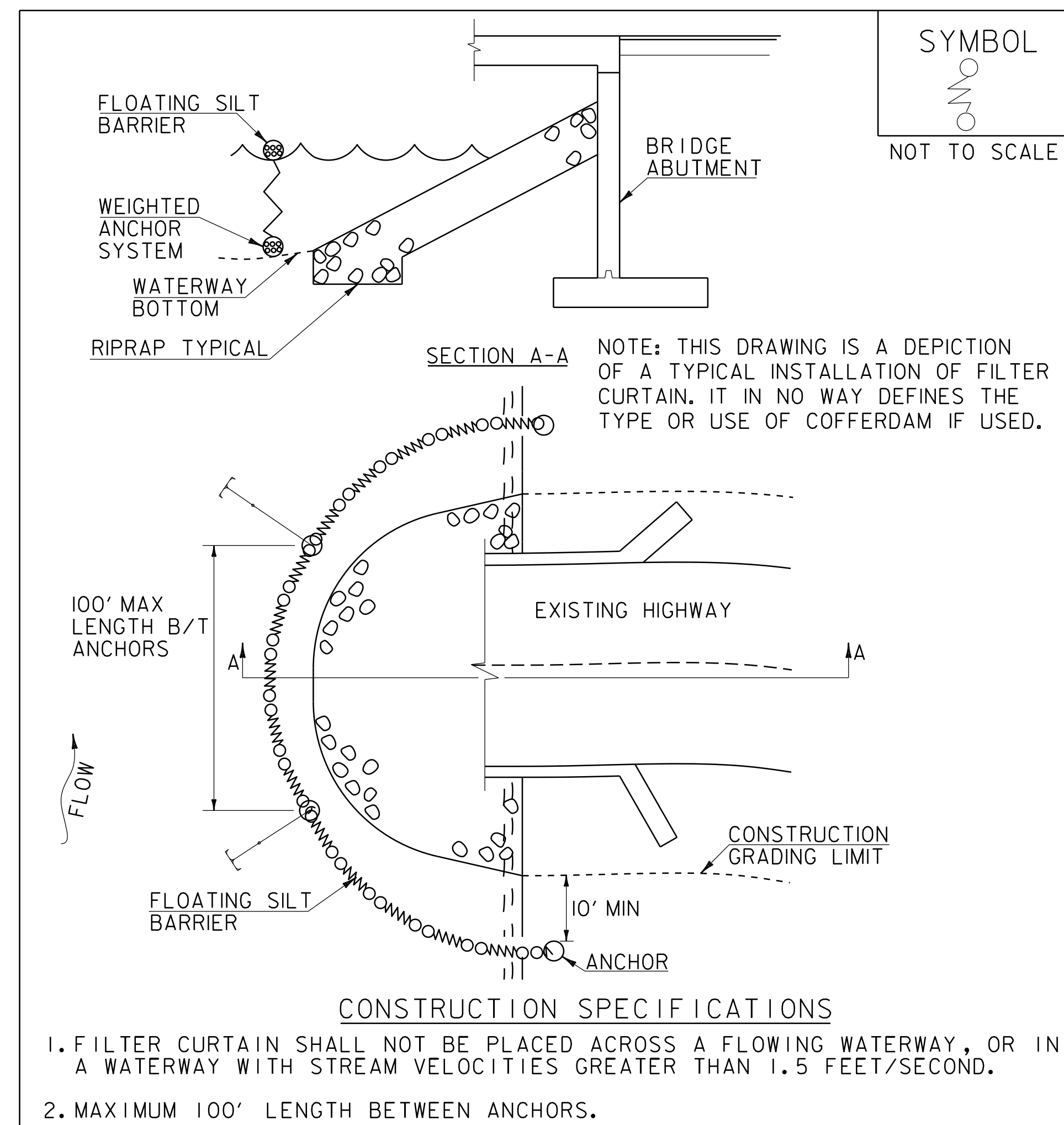
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SURFACE ROUGHENING**

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 CONSIDERED INCIDENTAL TO THE CONTRACT

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF

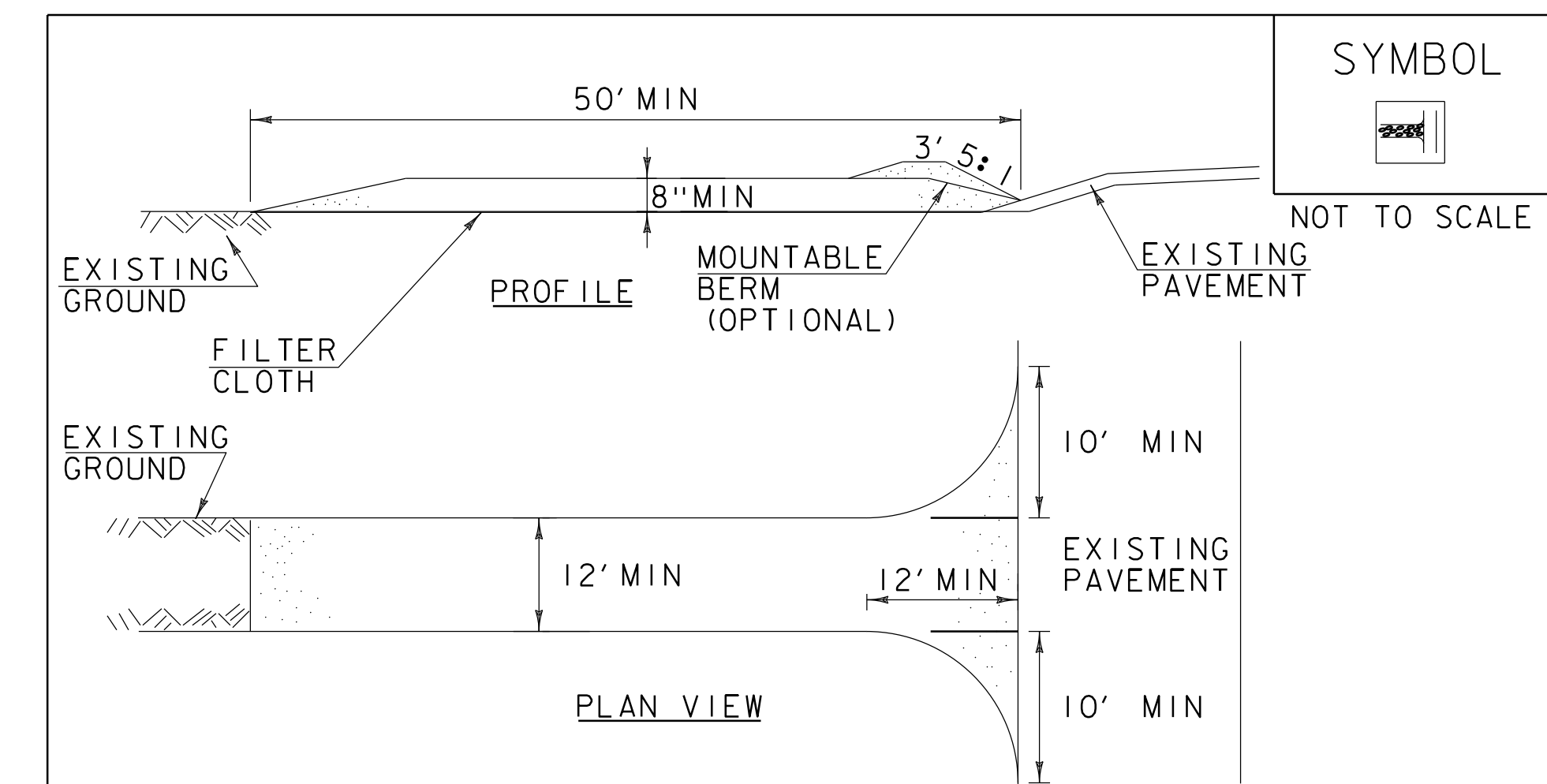


- CONSTRUCTION SPECIFICATIONS**
1. FILTER CURTAIN SHALL NOT BE PLACED ACROSS A FLOWING WATERWAY, OR IN A WATERWAY WITH STREAM VELOCITIES GREATER THAN 1.5 FEET/SECOND.
  2. MAXIMUM 100' LENGTH BETWEEN ANCHORS.
  3. LAST SECTION SHALL TERMINATE A MINIMUM OF 10' BEYOND LIMIT OF DISTURBANCE.
  4. THE WEIGHTED ANCHOR SYSTEM SHALL BE A TYPE WHICH ALLOWS THE CURTAIN TO CONFORM TO THE BOTTOM OF THE WATERWAY.
  5. THE CURTAIN SHALL BE REMOVED BY SLOWLY PULLING TOWARD THE SHORE MINIMIZING THE ESCAPE OF SEDIMENTS INTO WATERWAY.

**FILTER CURTAIN**

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 FOR GEOTEXTILE FOR FILTER CURTAIN (PAY ITEM 649.6I).

REVISIONS	
APRIL 1, 2008	WHF
JANUARY 13, 2009	WHF
SEPTEMBER 4, 2009	WHF



- CONSTRUCTION SPECIFICATIONS**
1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
  2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
  3. THICKNESS- NOT LESS THAN 8".
  4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
  5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
  6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
  7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
  8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
  9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

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

**STABILIZED CONSTRUCTION ENTRANCE**

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 VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: WEYBRIDGE-NEW HAVEN	PLOT DATE: 15-NOV-2016
PROJECT NUMBER: BF 032-1(I19)	DRAWN BY: M. LONGSTREET
FILE NAME: sl2b552er.onar.dgn	CHECKED BY: D. PETERSON
PROJECT LEADER: C.W. CARLSON	SHEET 45 OF 45
DESIGNED BY: D. PETERSON	
EPSC DETAILS 2	