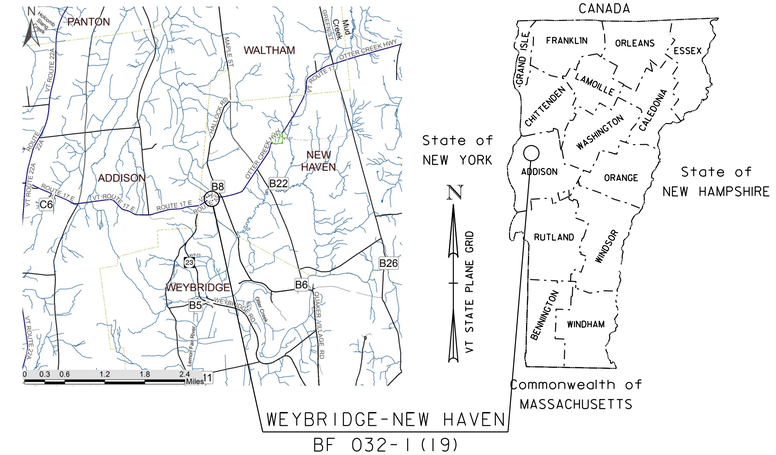
REVIEWER NOTES

1. THIS PROJECT IS ANTICIPATED TO BE A CLOSURE WITH A DETOUR.

2. NO ROW NEEDED FOR THIS PROJECT

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT
BRIDGE PROJECT

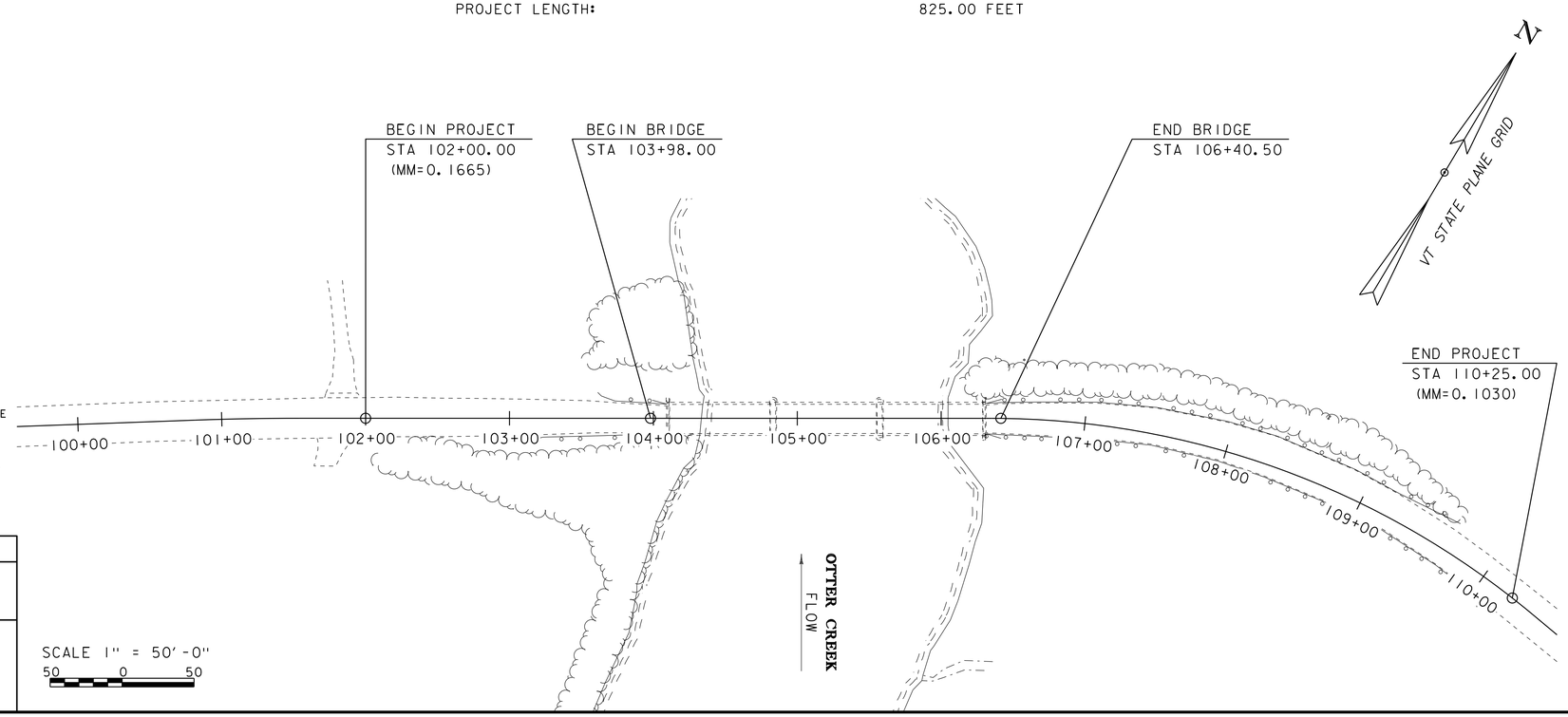
TOWNS OF WEYBRIDGE AND NEW HAVEN
COUNTY OF ADDISON

ROUTE NO : VT ROUTE 17 BRIDGE NO : 8

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

PROJECT DESCRIPTION: NECESSARY IMPROVEMENTS TO BRIDGE NO. 8 ON VT17 BETWEEN WEYBRIDGE AND NEW HAVEN, OVER OTTER CREEK.

LENGTH OF BRIDGE:	242.50 FEET
LENGTH OF ROADWAY:	582.50 FEET
PROJECT LENGTH:	825.00 FEET



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.

PRELIMINARY PLANS
06-SEP-2016

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY :	L.ORVIS
SURVEYED DATE :	1-10-2014

DATUM

VERTICAL	NAVD88
HORIZONTAL	NAD83(96)

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 39 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PRELIMINARY INFORMATION SHEET (BRIDGE)

Version
LRFD

INDEX OF SHEETS

PLAN SHEETS

1	TITLE SHEET
2	PRELIMINARY INFORMATION SHEET 1
3	TYPICAL SECTIONS
4	TYPICALS & DETAILS
5	CONVENTIONAL SYMBOLOGY
6	TIE SHEET
7 - 9	LAYOUT SHEET 1-3
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28	EPSC NARRATIVE
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32 - 34	EPSC CONSTRUCTION LAYOUT 1-3
35 - 37	EPSC FINAL LAYOUT 1-3
38 - 39	EPSC DETAILS 1-2

STANDARDS LIST

Add for Final Design

STRUCTURES DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-502.00	CONCRETE DETAILS AND NOTES	5/7/2010
SD-516.10	BRIDGE JOINT ASHPALTIC PLUG	8/29/2011
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	5/7/2010
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	5/7/2010

FINAL HYDRAULIC REPORT

TRAFFIC MAINTENANCE NOTES

1. MAINTAIN TRAFFIC ON AN OFF SITE DETOUR.
2. TRAFFIC SIGNALS ARE NOT NECESSARY.
3. SIDEWALKS ARE NOT NECESSARY

DESIGN VALUES

1.	DESIGN LIVE LOAD		HL-93
2.	FUTURE PAVEMENT	d_p:	3.0 INCH
3.	DESIGN SPAN	L:	0.00 FT
4.	MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS)	Δ:	- - -
5.	PRESTRESSING STRAND (0.60 INCH DIAMETER - LOW RELAX)	f_y:	270 KSI
6.	PRESTRESSED CONCRETE STRENGTH	f'_c:	6.0 KSI
7.	PRESTRESSED CONCRETE RELEASE STRENGTH	f'_{ci}:	5.0 KSI
8.	CONCRETE, HIGH PERFORMANCE CLASS AA	f'_c:	4.0 KSI
9.	CONCRETE, HIGH PERFORMANCE CLASS A	f'_c:	4.0 KSI
10.	CONCRETE, HIGH PERFORMANCE CLASS B	f'_c:	3.5 KSI
11.	CONCRETE, CLASS C	f'_c:	3.0 KSI
12.	REINFORCING STEEL	f_y:	60 KSI
13.	STRUCTURAL STEEL AASHTO M270 (WEATHERING)	f_y:	50 KSI
14.	NOMINAL BEARING RESISTANCE OF SOIL	q_n:	4.0 KSF
15.	SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
16.	NOMINAL BEARING RESISTANCE OF ROCK	q_n:	10.0 KSF
17.	ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD)	ϕ:	- - -
18.	PILE RESISTANCE FACTOR	ϕ:	- - -
19.	LATERAL PILE DEFLECTION	Δ:	- - -
20.	BASIC WIND SPEED	V_{3s}:	- - -
21.	MINIMUM GROUND SNOW LOAD	p_g:	- - -
22.	SEISMIC DATA PGA: 0	S_s:	- - -
		S_1:	- - -
23.			
24.			- - -
25.			- - -
26.			- - -

LRFR LOAD RATING FACTORS

LOADING LEVELS	TRUCK						
	H-20	HL-93	3S2	6 AXLE	3A. STR.	4A. STR.	5A. SEM
TONNAGE	20	36	36	66	30	34.5	38
INVENTORY							
POSTING							
OPERATING							
COMMENTS:							

AS BUILT "REBAR" DETAIL

LEVEL I	LEVEL II	LEVEL III
TYPE:	TYPE:	TYPE:
GRADE:	GRADE:	GRADE:

TRAFFIC DATA

YEAR	ADT	DHV	% D	% T	ADTT
2017	1100	120	54	21.3	190
2037	1200	140	54	30.3	290

20 year ESAL for flexible pavement from 2017 to 2037 : ??

40 year ESAL for flexible pavement from 2017 to 2057 : ??

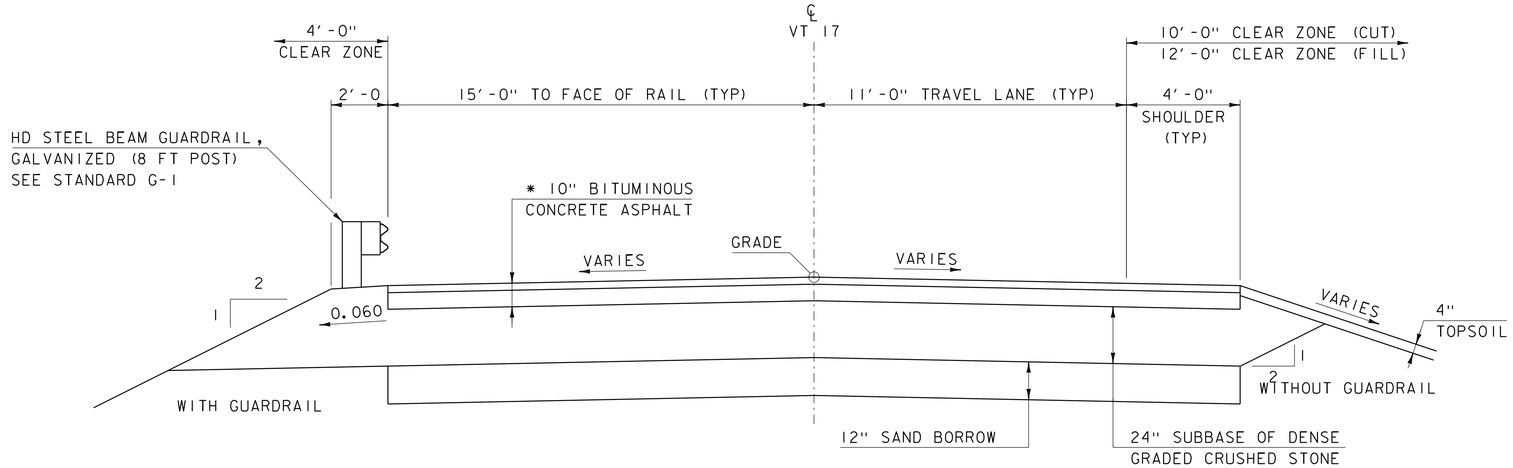
Design Speed : 45 mph

PROJECT NAME: **WEYBRIDGE-NEW HAVEN**

PROJECT NUMBER: **BF 032-1(19)**

FILE NAME: **s12b552pi.dgn**
PROJECT LEADER: **C.W. CARLSON**
DESIGNED BY: **D. PETERSON**
PRELIMINARY INFORMATION SHEET 1

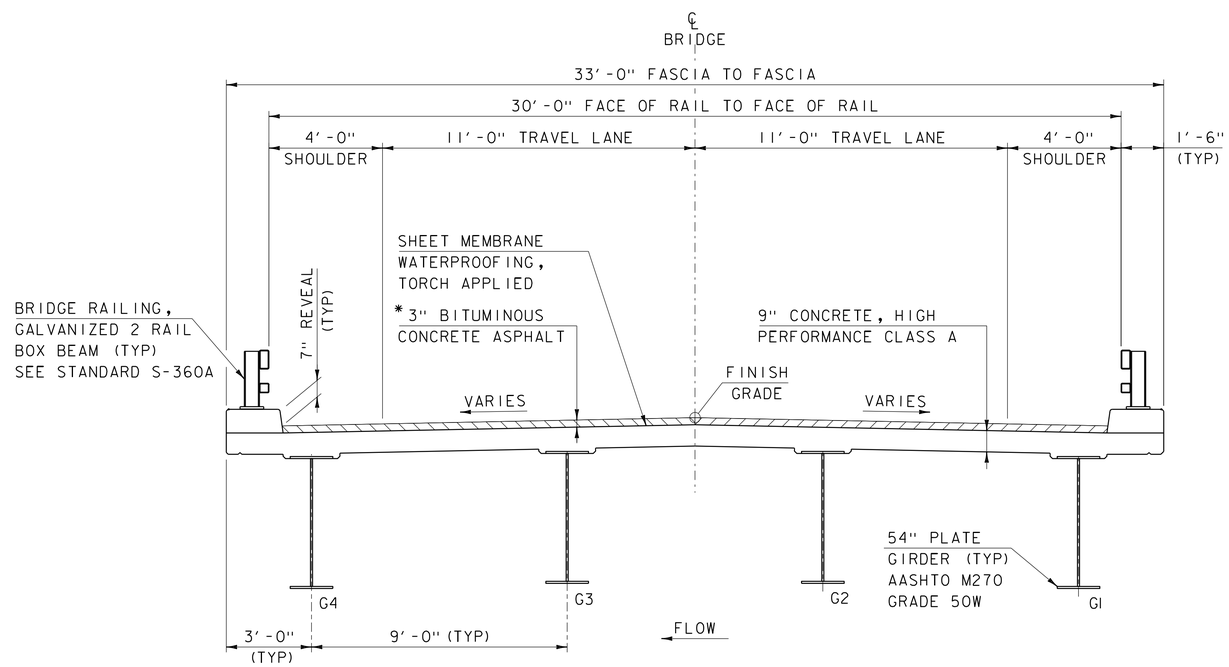
PLOT DATE: 3/1/2016
DRAWN BY: **M. LONGSTREET**
CHECKED BY: **D. PETERSON**
SHEET 2 OF 39



ROADWAY TYPICAL SECTION

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

*2 LIFTS OF 1½" BITUM. CONC. PAVEMENT TYPE IVS OVER
2 LIFTS OF 3½" BITUM. CONC. PAVEMENT TYPE IIS
PAID UNDER SPECIAL PROVISION (BITUMINOUS CONCRETE
PAVEMENT, SMALL QUANTITY).



ROADWAY TYPICAL SECTION

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

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

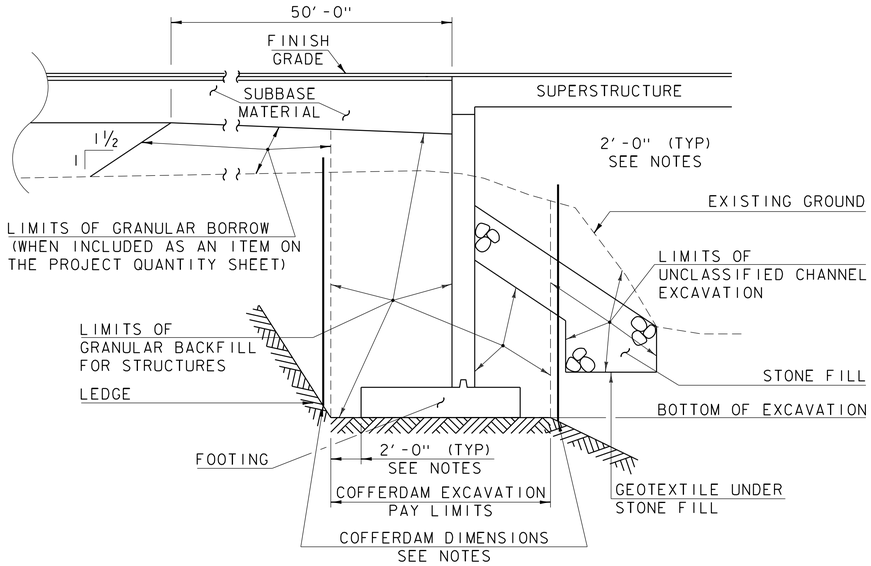
MATERIAL TOLERANCES
(IF USED ON PROJECT)

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

PROJECT NAME: WEYBRIDGE-NEW HAVEN
PROJECT NUMBER: BF 023-1(19)

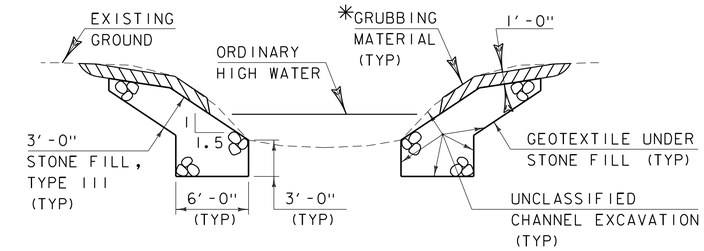
FILE NAME: s12b552typ.dgn
PROJECT LEADER: C.W. CARLSON
DESIGNED BY: D. PETERSON
TYPICAL SECTIONS

PLOT DATE: 06-SEP-2016
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 3 OF 39



COFFERDAM AND EARTHWORK SECTION

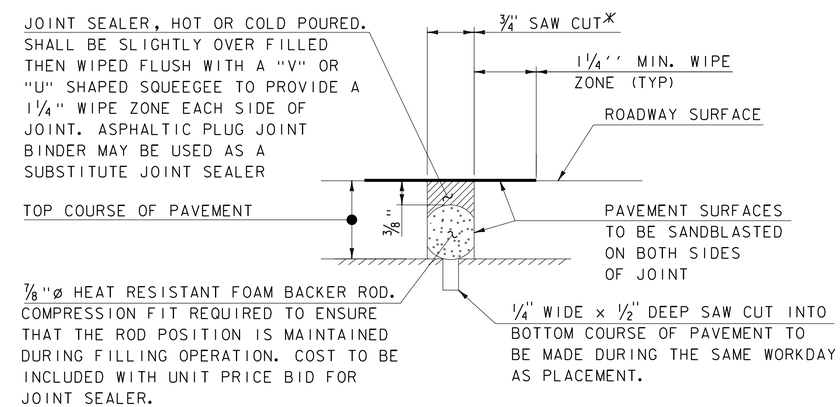
(NOT TO SCALE)



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 023-1(19)	
FILE NAME: s12b552typ.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
TYPICALS & DETAILS	SHEET 4 OF 39

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY 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. SYMBOLOGY 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 SYMBOLOGY

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 SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

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	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
	TREE PROTECTION ZONE (TPZ)
	STRIPING LINE REMOVAL
	SHEET PILES

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

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

EPSC LAYOUT PLAN SYMBOLOGY

EPSC MEASURES

	FILTER CURTAIN
	SILT FENCE
	SILT FENCE WOVEN WIRE
	CHECK DAM
	DISTURBED AREAS REQUIRING RE-VEGETATION
	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

	WETLAND BOUNDARY
	RIPARIAN BUFFER ZONE
	WETLAND BUFFER ZONE
	SOIL TYPE BOUNDARY
T&E	THREATENED & ENDANGERED SPECIES
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
H	HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

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

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

FILE NAME: s12b552xs.dgn
PROJECT LEADER: C.W. CARLSON
DESIGNED BY: D. PETERSON
CONVENTIONAL SYMBOLOGY

PLOT DATE: 06-SEP-2016
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 5 OF 39

GPS CONTROL POINTS

HVCTRL # 1

STANDARD DISK STAMPED
Chalker Az Mk

N = 580550.5810
E = 1444341.9110
ELEV. = 201.246

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.

HVCTRL # 2

STANDARD DISK STAMPED
Chalker

N = 578921.0470
E = 1444009.969
ELEV. = 157.939

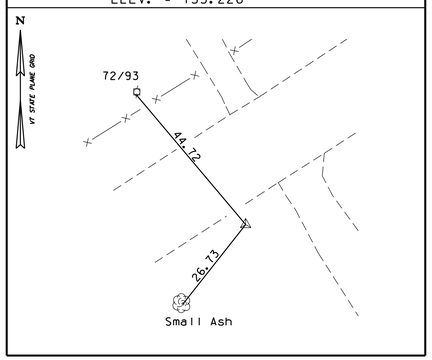
To reach from the intersection of VT routes 17 and 23 go east along route 17 for 0.15 mi to the site of the mark on the left, on a small rise, just east of a field drive. The mark is set flush with ground surface in the top of a massive rock outcrop. It is86.0 ft north of and about 6.6 ft higher than 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

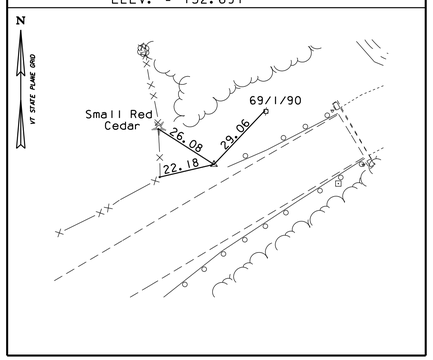
HVCTRL #3

NORTH = 578564.3820
EAST = 1443636.410
ELEV. = 155.226



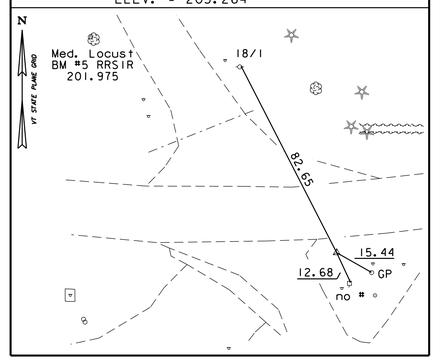
HVCTRL #4

NORTH = 578927.4270
EAST = 1444154.3370
ELEV. = 152.691



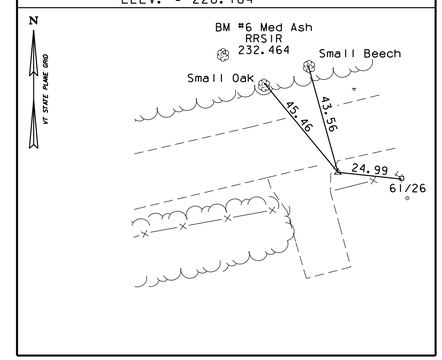
HVCRTL #5

NORTH = 579075.5590
EAST = 1445170.5110
ELEV. = 203.264



HVCTRL #6

NORTH = 579239.6280
EAST = 1445926.650
ELEV. = 228.184



* 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: x12b552ti.dgn
PROJECT LEADER: C.W. CARLSON
DESIGNED BY: VTRANS
TIE SHEET

PLOT DATE: 06-SEP-2016
DRAWN BY: G. HITCHCOCK
CHECKED BY: P. BEYOR
SHEET 6 OF 39

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

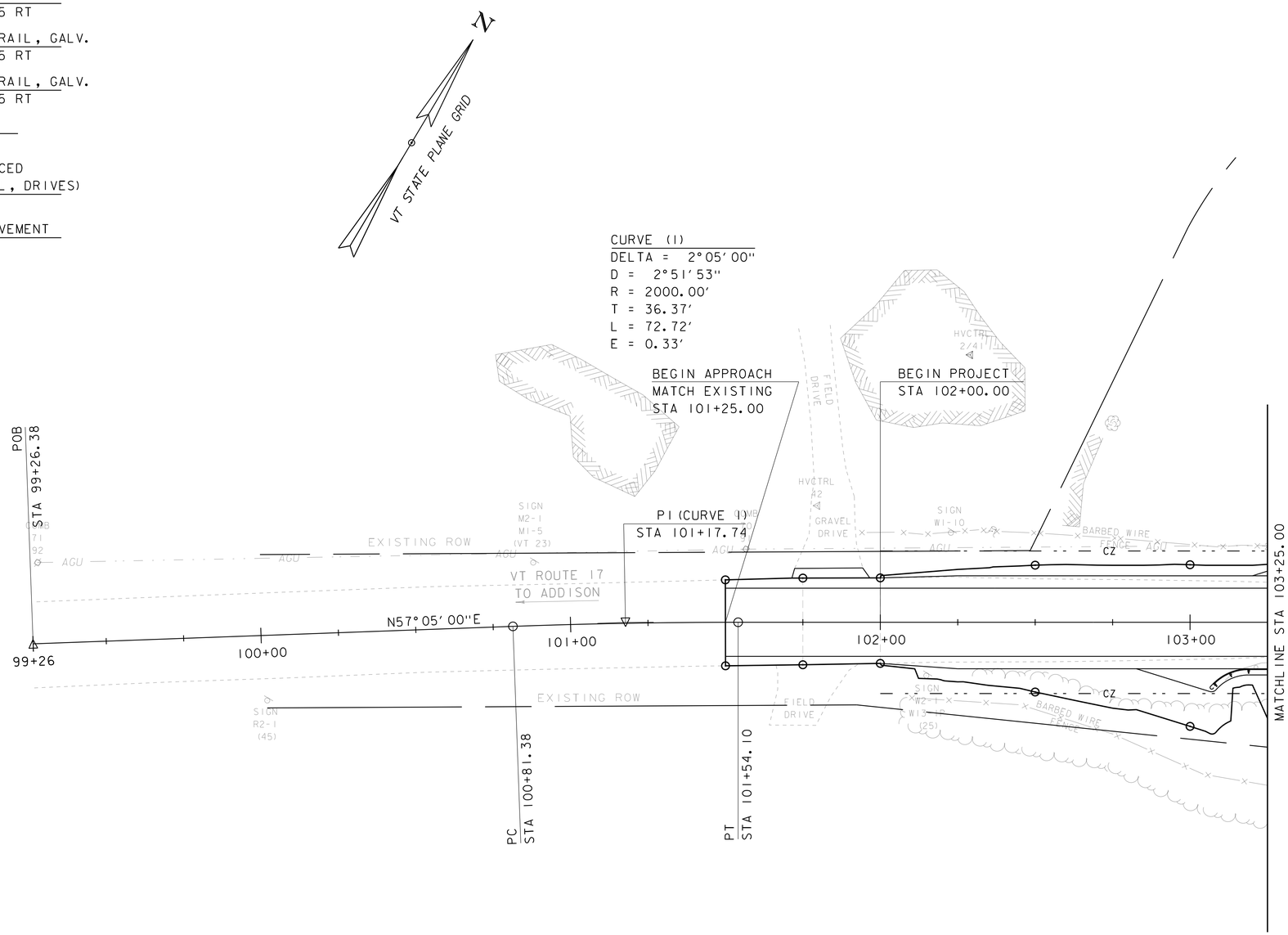
HEAVY DUTY STEEL BEAM GUARDRAIL, GALV.
VT17 STA 103+08 - STA 103+25 RT

HEAVY DUTY STEEL BEAM GUARDRAIL, GALV.
VT17 STA 103+08 - STA 103+25 RT

ANCHOR FOR STEEL BEAM RAIL
VT17 STA 103+19 RT

SPECIAL PROVISION (HAND-PLACED
BITUMINOUS CONCRETE MATERIAL, DRIVES)
VT17 STA 101+70 - 101+90 LT

COLD PLANING, BITUMINOUS PAVEMENT
VT17 STA 101+25 - 102+00



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

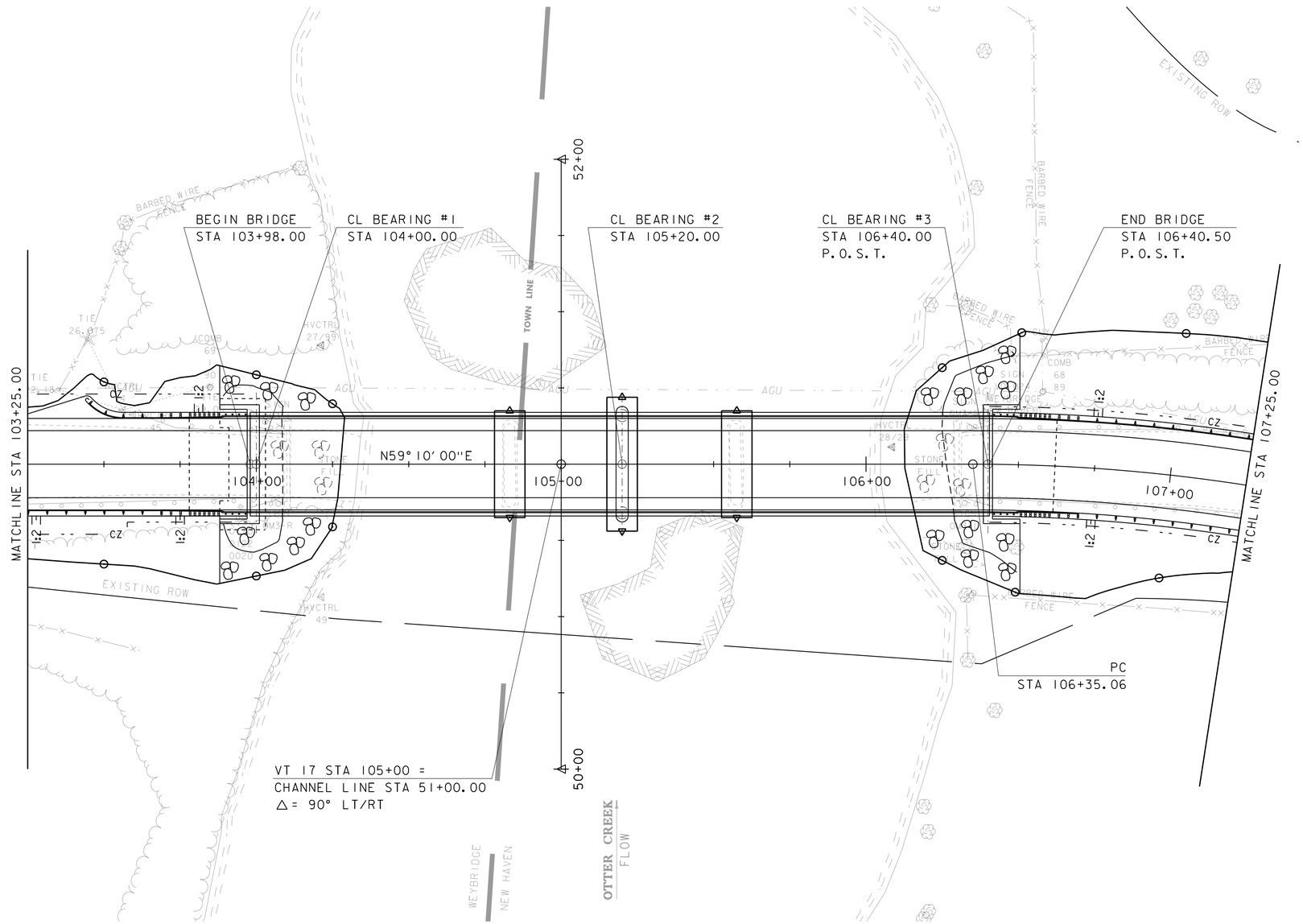
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/s12b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
LAYOUT SHEET 1	SHEET 7 OF 39

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, GALV.
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 LT

BRIDGE RAILING GALVANIZED
2 RAIL BOX BEAM
VT17 STA 103+96 - STA 106+40 LT
VT17 STA 103+96 - STA 106+40 RT



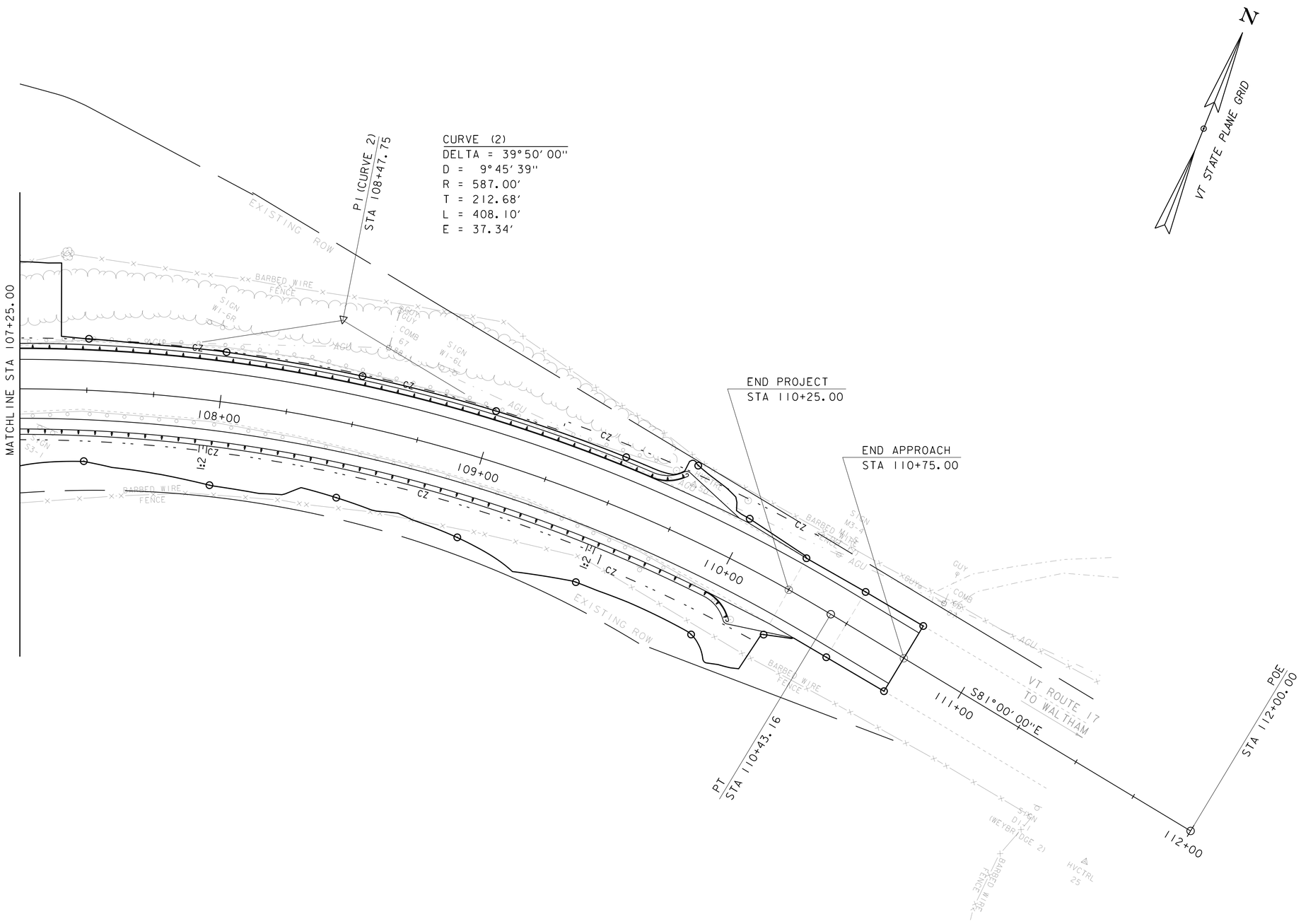
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/s12b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
LAYOUT SHEET 2	SHEET 8 OF 39

REMOVAL AND DISPOSAL OF GUARDRAIL
VT17 STA 107+25 - STA 109+72 LT
VT17 STA 107+25 - STA 110+09 RT

ANCHOR FOR STEEL BEAM RAIL
VT17 STA 109+61 LT
VT17 STA 109+89 RT

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



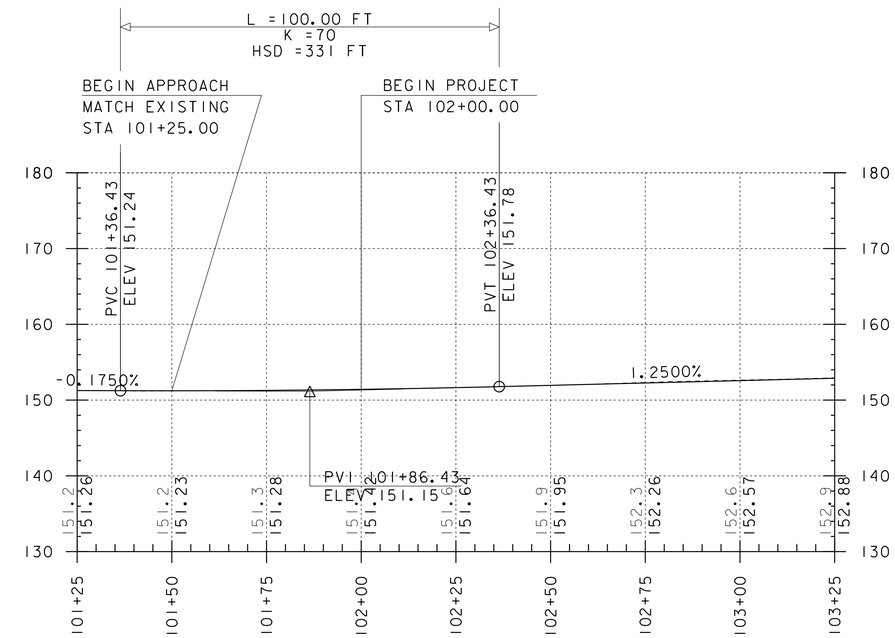
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/s12b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
LAYOUT SHEET 3	SHEET 9 OF 39

NOTE:

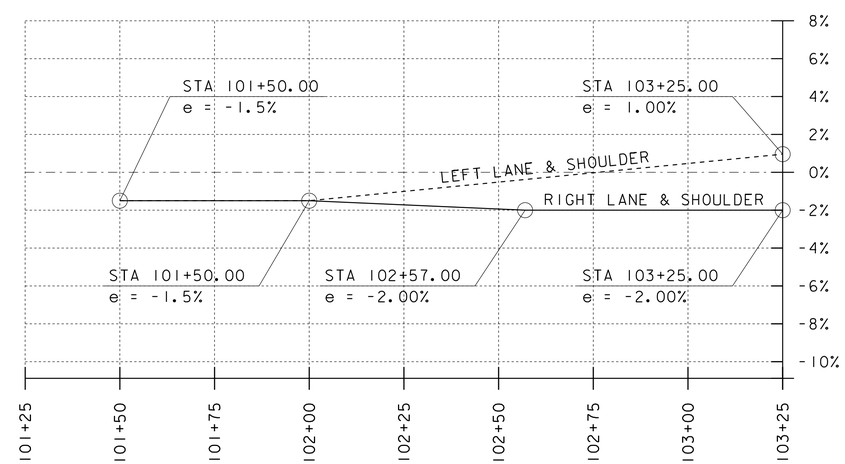
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE
EXISTING GROUND ALONG PROPOSED CENTERLINE.

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

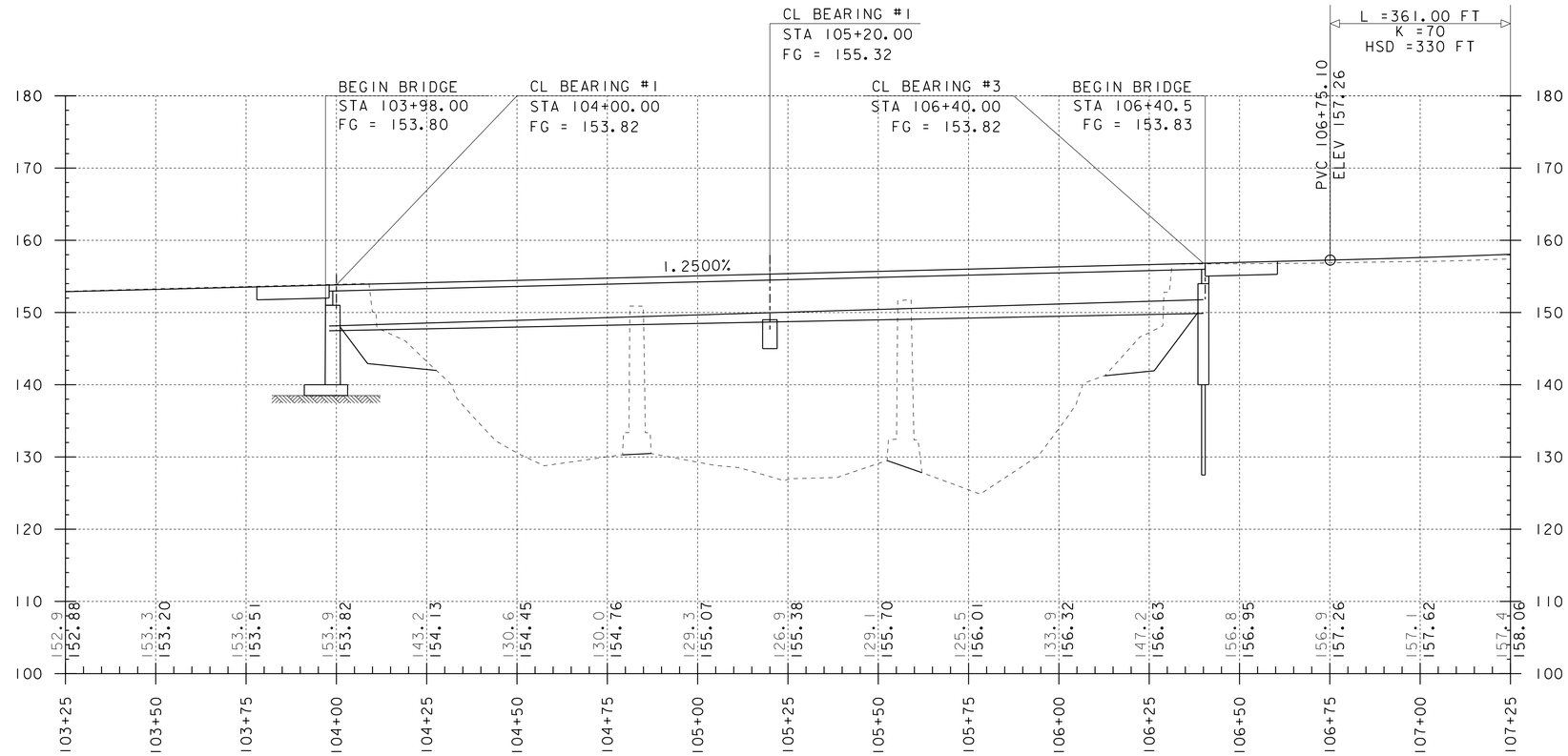
SCALE: HORIZONTAL 1"=20'-0"
VERTICAL 1"=4%

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PROFILE & BANKING 1	SHEET 10 OF 39

NOTE:

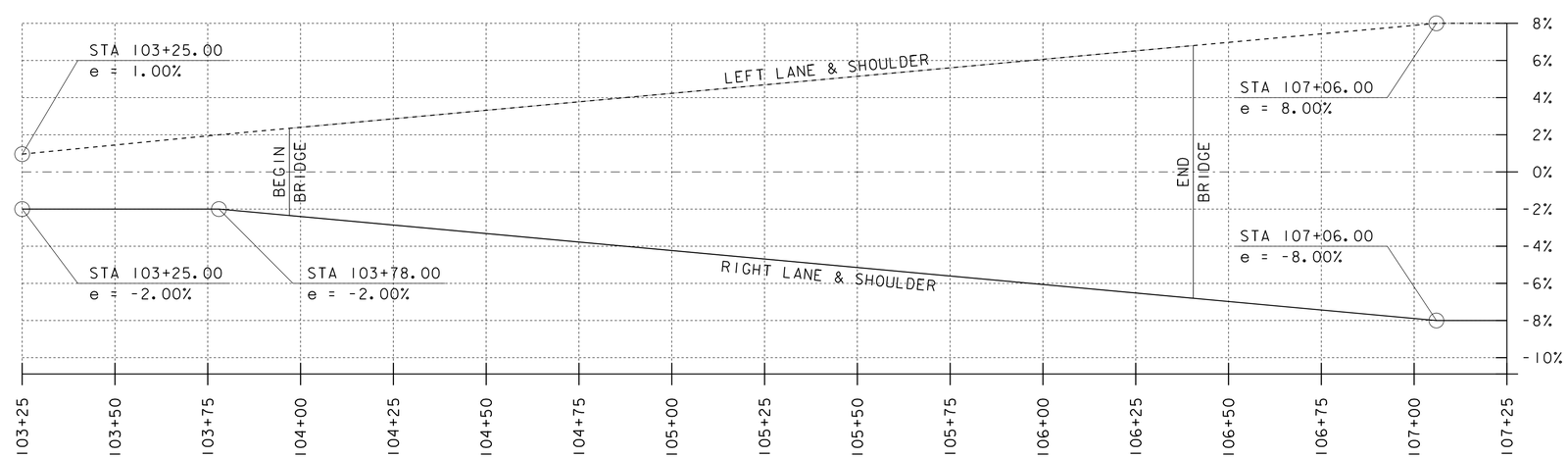
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

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

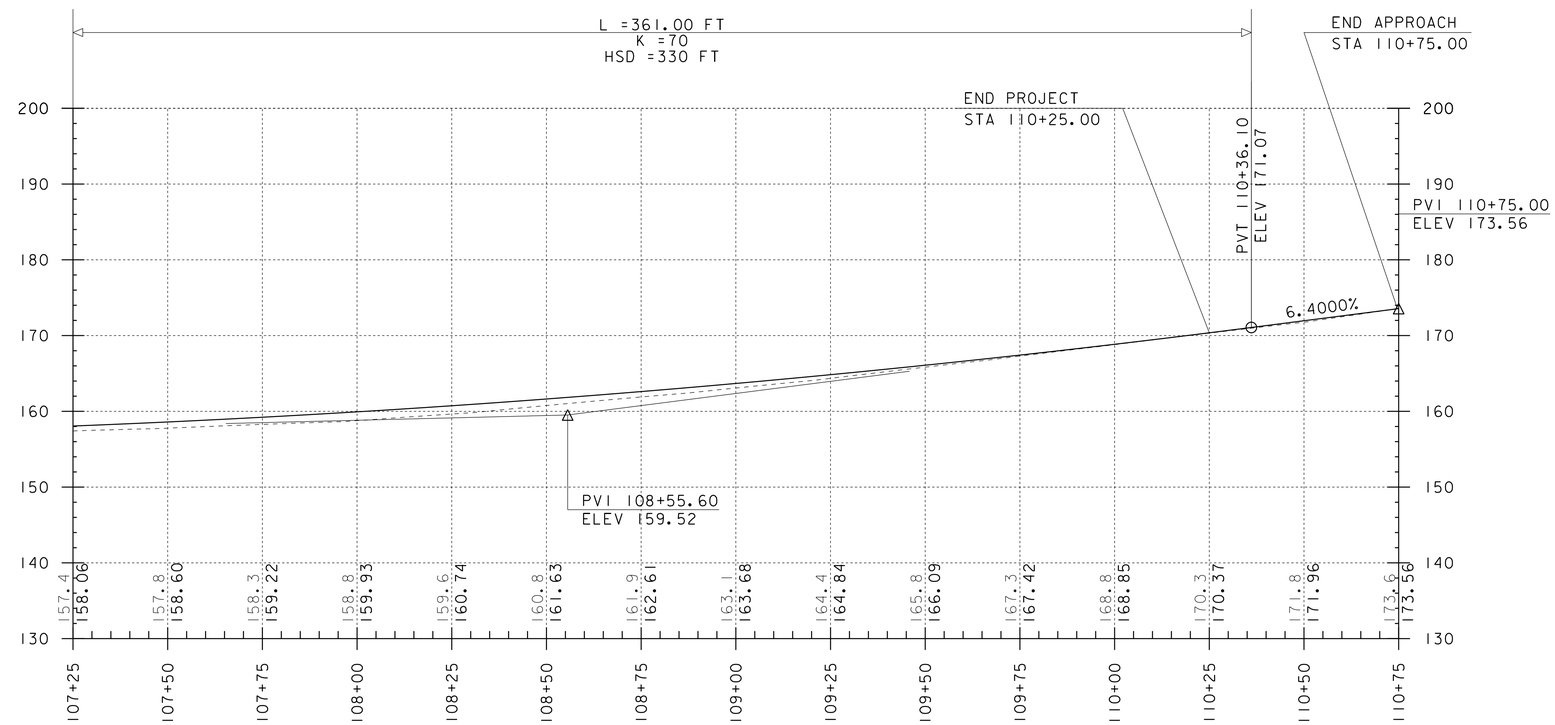
SCALE: HORIZONTAL 1"=20'-0"
VERTICAL 1"=4%

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PROFILE & BANKING 2	SHEET 11 OF 39

NOTE:

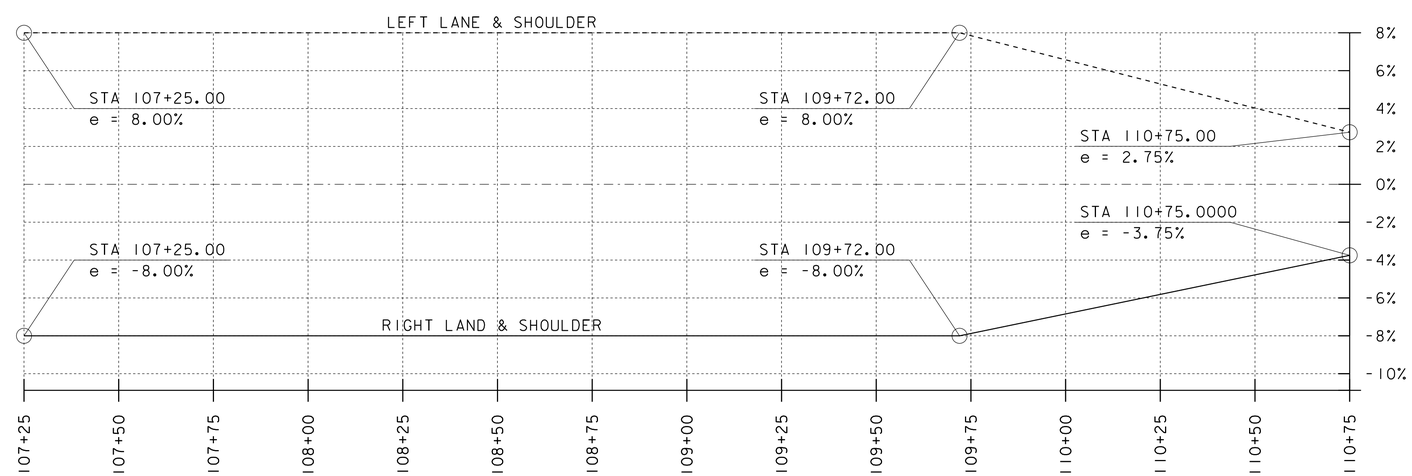
ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROPOSED CENTERLINE.

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: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PROFILE & BANKING 3	SHEET 12 OF 39

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)

N	DESCRIPTIVE TERM
<5	Very Loose
5-10	Loose
11-24	Med. Dense
25-50	Dense
>50	Very Dense

CONSISTENCY (COHESIVE SOILS)

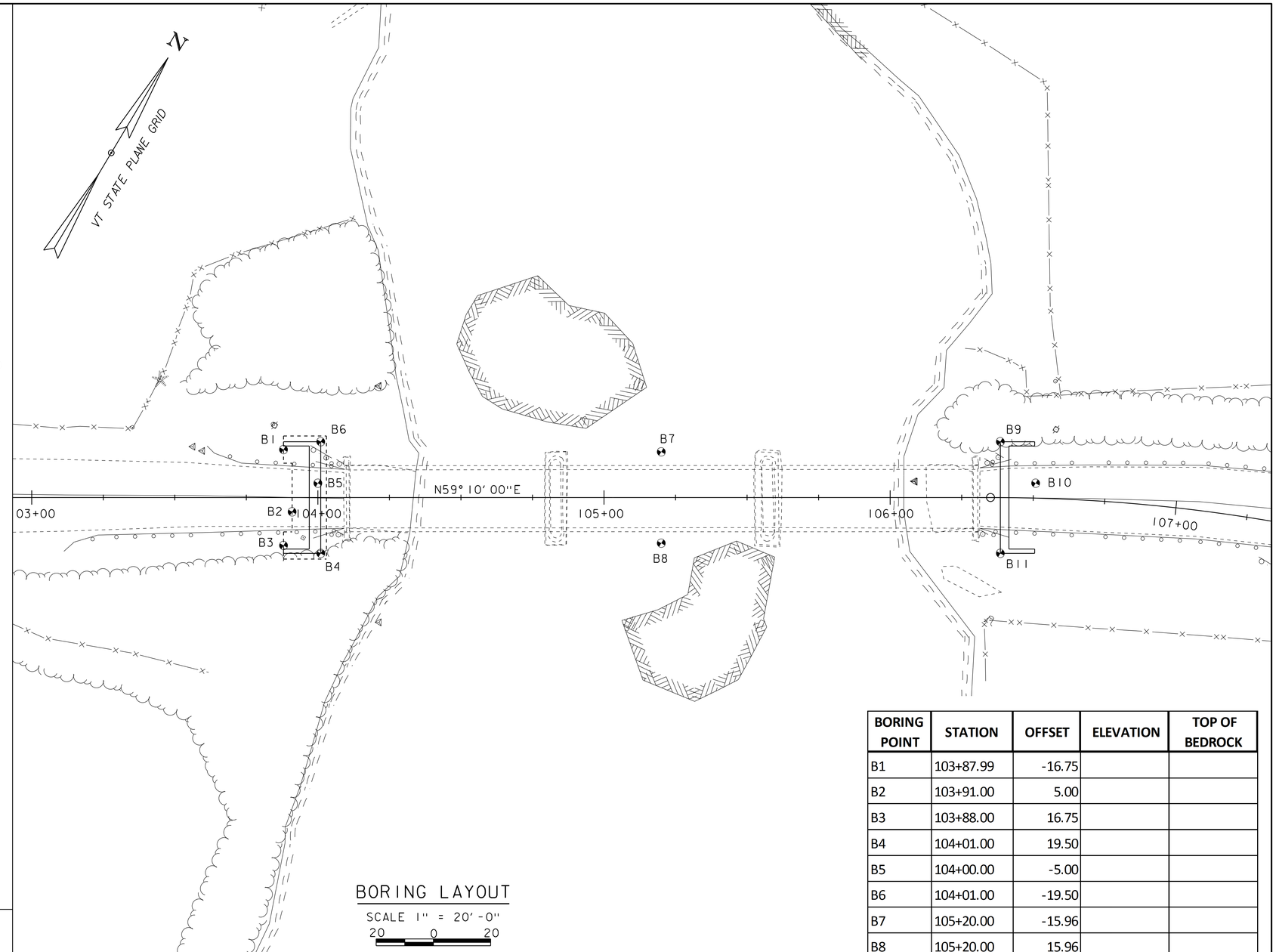
N	DESCRIPTIVE TERM
<2	Very Soft
2-4	Soft
5-8	Med. Stiff
9-15	Stiff
16-30	Very Stiff
31-60	Hard
>60	Very Hard

COMMONLY USED SYMBOLS

▼	Water Elevation
⊗	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O.D. Sampler 1 3/8" I.D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 5/8"
NX	Core Size 2 1/8"
M	Double Tube Core Barrel Used
LL	Liquid Limit
PL	Plastic Limit
PI	Plasticity Index
NP	Non Plastic
w	Moisture Content (Dry Wgt. Basis)
D	Dry
M	Moist
MTW	Moist To Wet
W	Wet
Sat	Saturated
Bo	Boulder
Gr	Gravel
Sa	Sand
Si	Silt
Cl	Clay
HP	Hardpan
Le	Ledge
NLTD	No Ledge To Depth
CNPF	Can Not Penetrate Further
TLOB	Top of Ledge Or Boulder
NR	No Recovery
Rec.	Recovery
%Rec.	Percent Recovery
RQD	Rock Quality Designation
CBR	California Bearing Ratio
<	Less Than
>	Greater Than
R	Refusal (N > 100)
VTSPG	NAD83 - See Note 7

COLOR

blk	Black	pnk	Pink
bl	Blue	pu	Purple
brn	Brown	rd	Red
dk	Dark	tn	Tan
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



BORING LAYOUT

SCALE 1" = 20'-0"

20 0 20

BORING POINT	STATION	OFFSET	ELEVATION	TOP OF BEDROCK
B1	103+87.99	-16.75		
B2	103+91.00	5.00		
B3	103+88.00	16.75		
B4	104+01.00	19.50		
B5	104+00.00	-5.00		
B6	104+01.00	-19.50		
B7	105+20.00	-15.96		
B8	105+20.00	15.96		
B9	106+38.39	-19.51		
B10	106+50.70	-5.21		
B11	106+38.62	19.49		
0	0	0		
0	0	0		

DEFINITIONS (AASHTO)

BEDROCK (LEDGE) - Rock in its native location of indefinite thickness.

BOULDER - A rock fragment with an average dimension > 12 inches.

COBBLE - Rock fragments with an average dimension between 3 and 12 inches.

GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).

SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).

SILT - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.

CLAY - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.

VARVED - Alternate layers of silt and clay.

HARDPAN - Extremely dense soil, cemented layer, not softened when wet.

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

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

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

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

DIP - Inclination of bed with a horizontal plane.

GENERAL NOTES

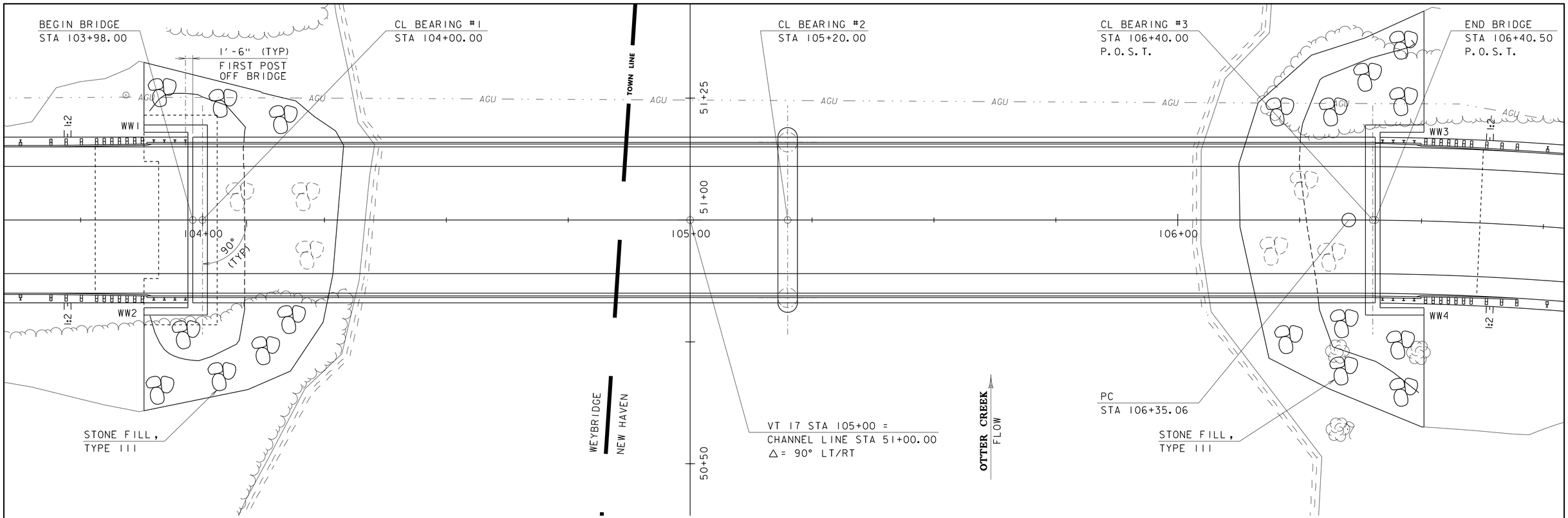
1. The subsurface explorations shown herein were made between -------- and ---------- by the Agency.
2. Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
3. 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.
4. 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.
5. 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.
6. 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.
7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

PROJECT NAME: WEYBRIDGE - NEW HAVEN

PROJECT NUMBER: BF 032-1(19)

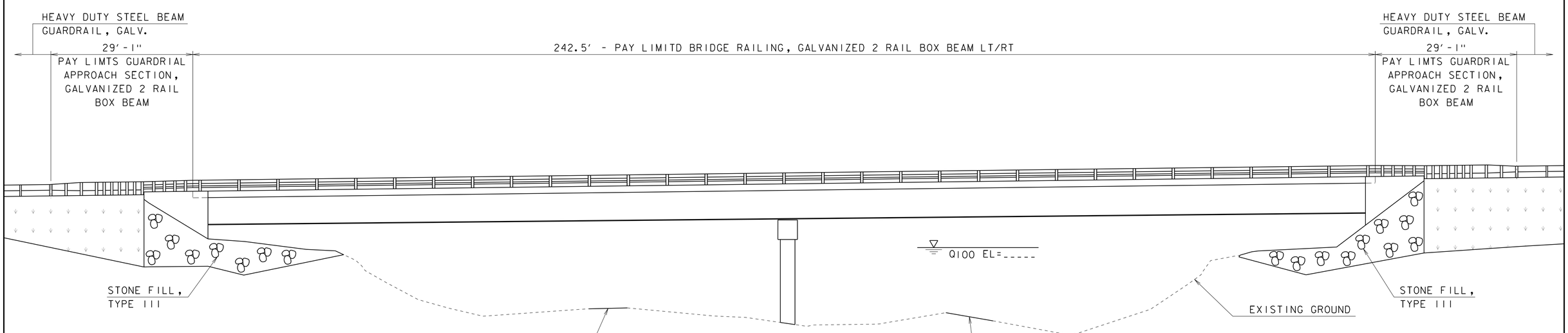
FILE NAME: s12b552bor.dgn
PROJECT LEADER: C.W. CARLSON
DESIGNED BY: D. PETERSON
BORING INFORMATION SHEET

PLOT DATE: 06-SEP-2016
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 13 OF 39



PLAN

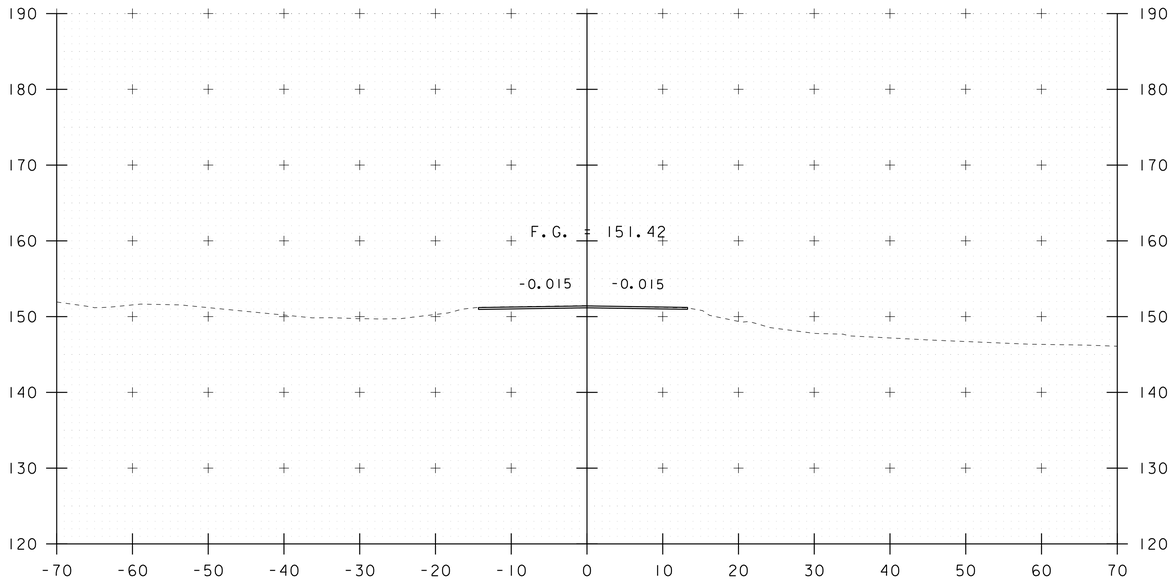
SCALE 1" = 10'-0"



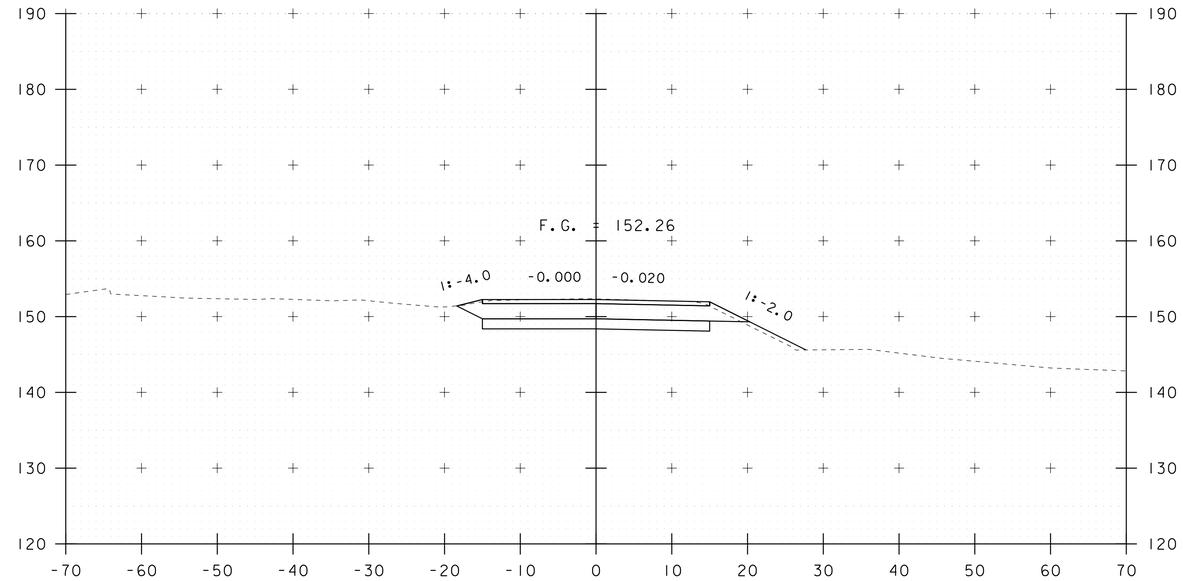
ELEVATION

SCALE 1" = 10'-0"

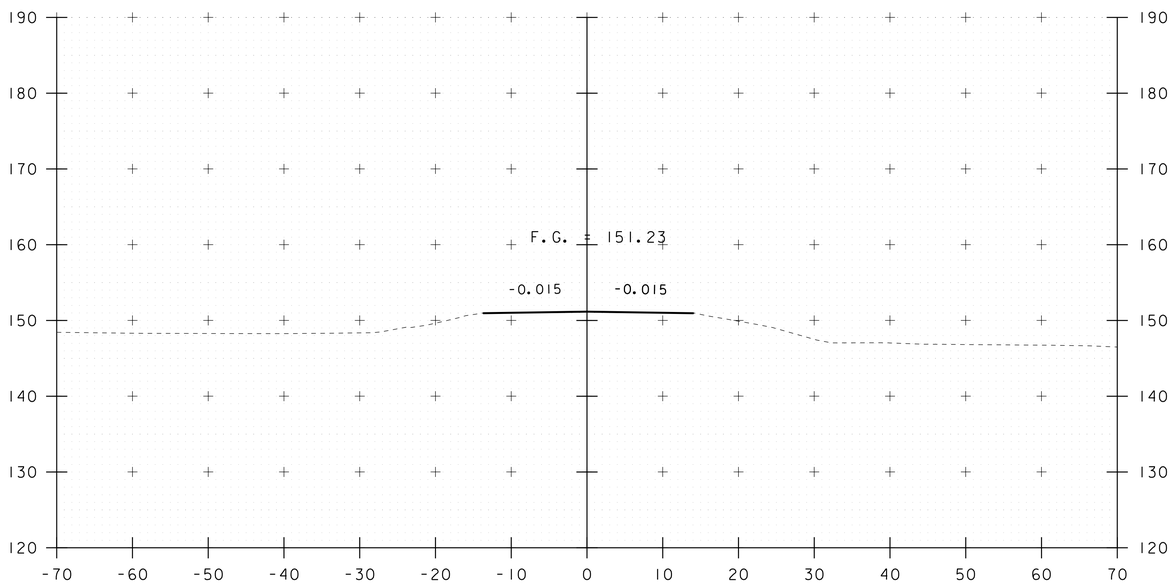
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BR 032-1(19)	
FILE NAME: sl2b552pe.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
PLAN & ELEVATION	SHEET 14 OF 39



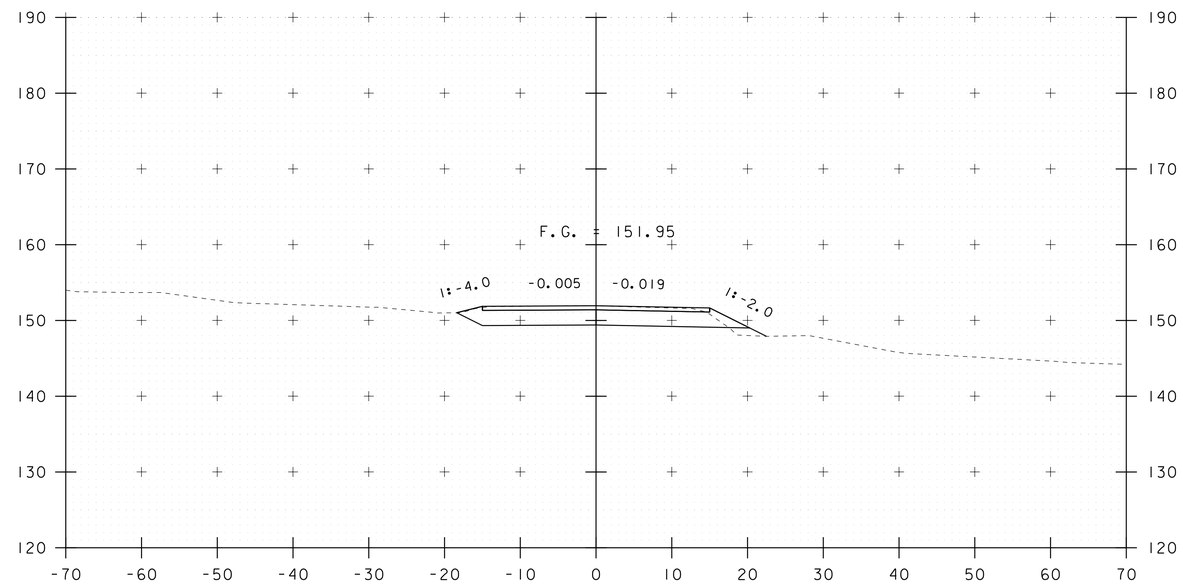
102+00



102+75



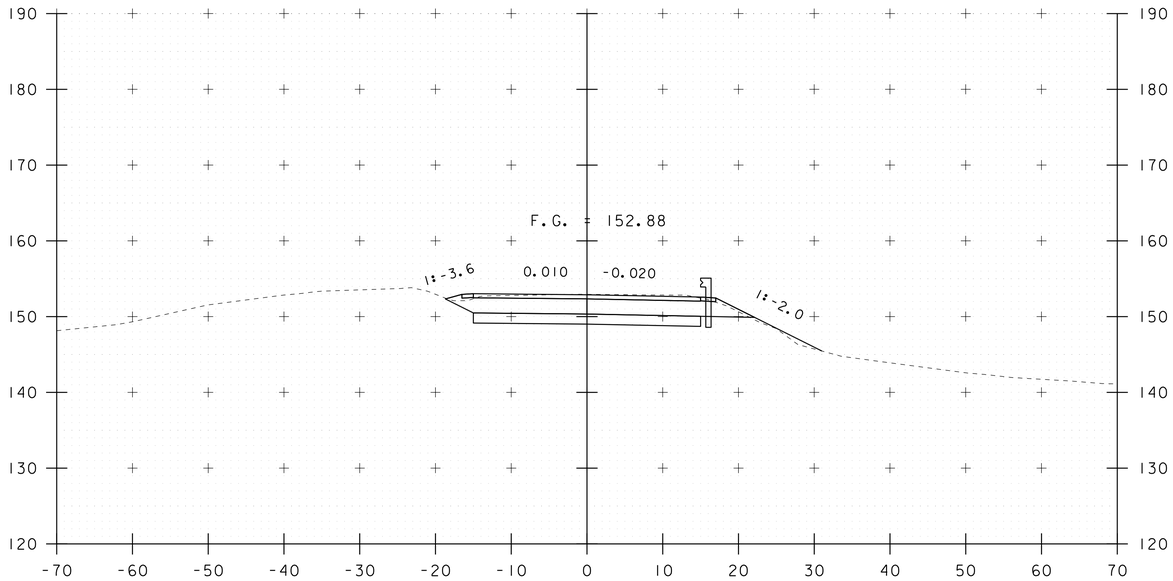
101+50



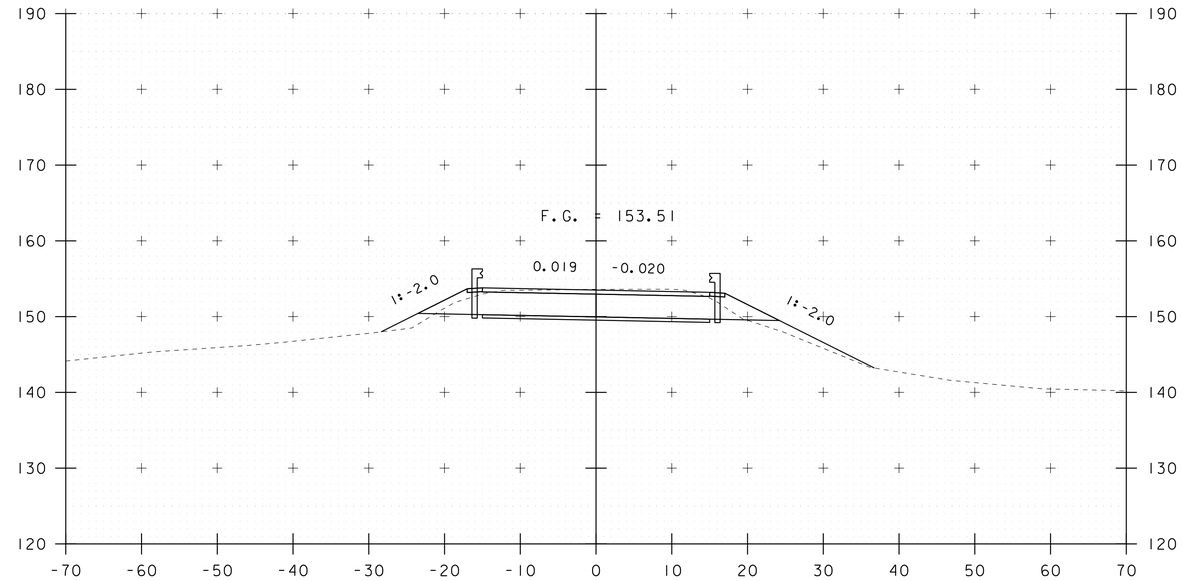
102+50

STA. 101+50 TO STA. 102+75

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 1	SHEET 15 OF 39



103+25



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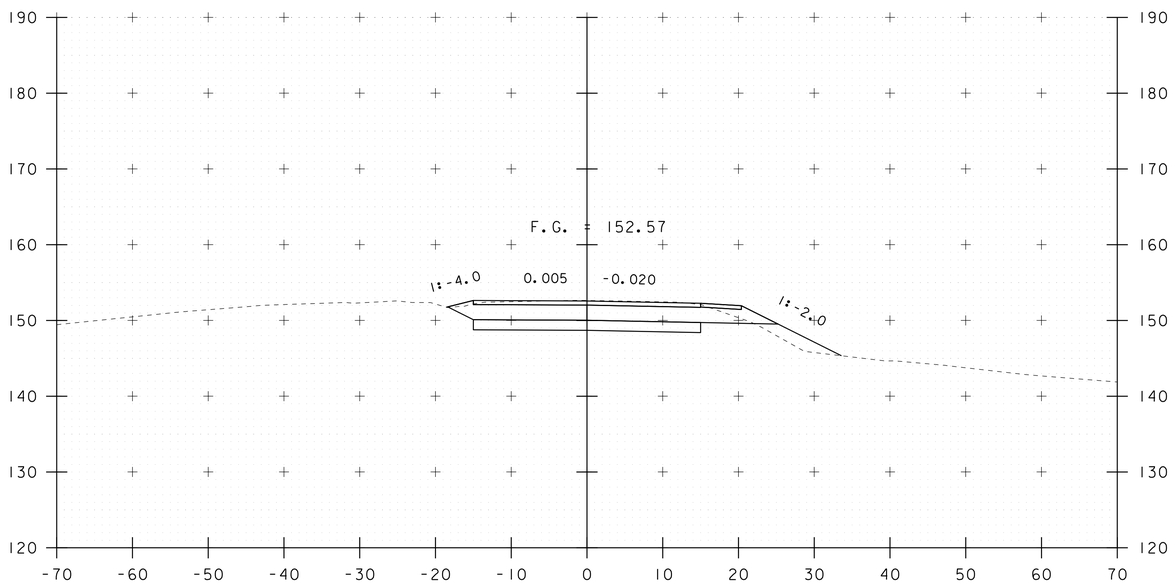
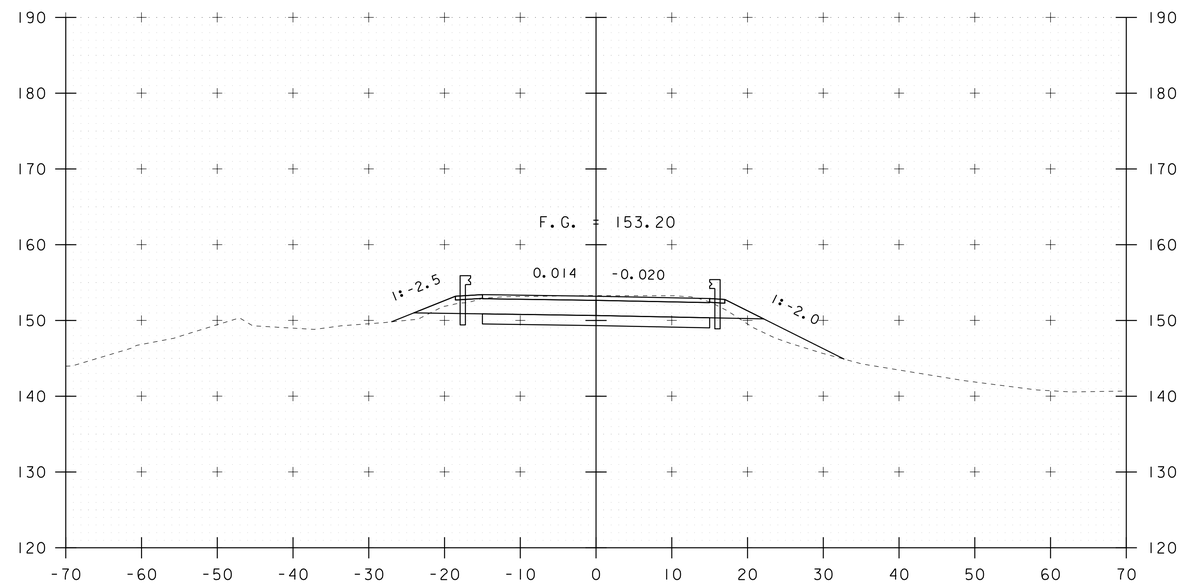


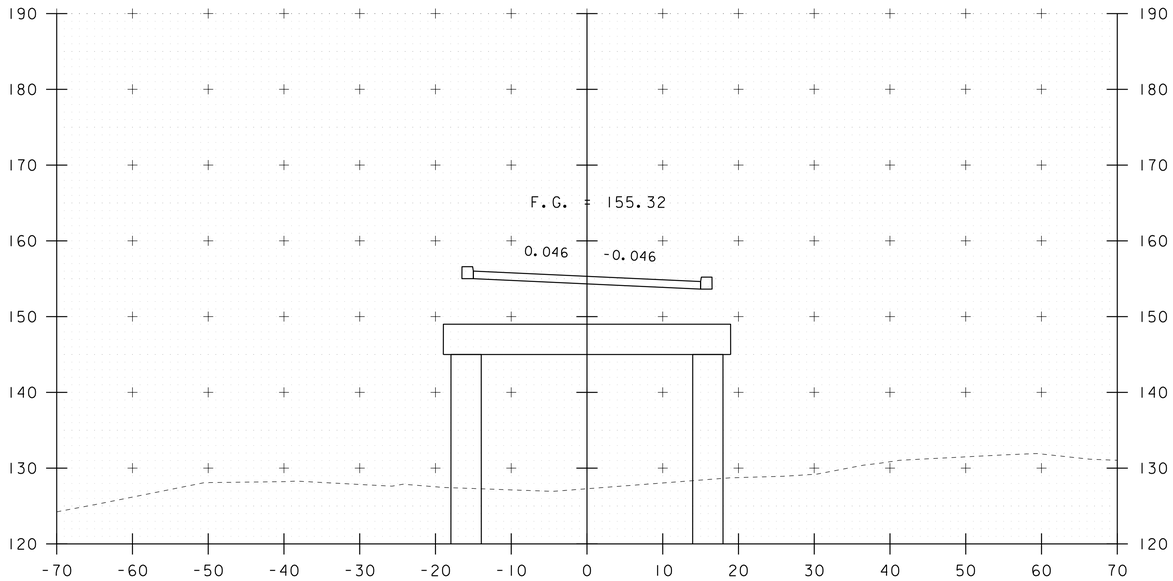
103+00



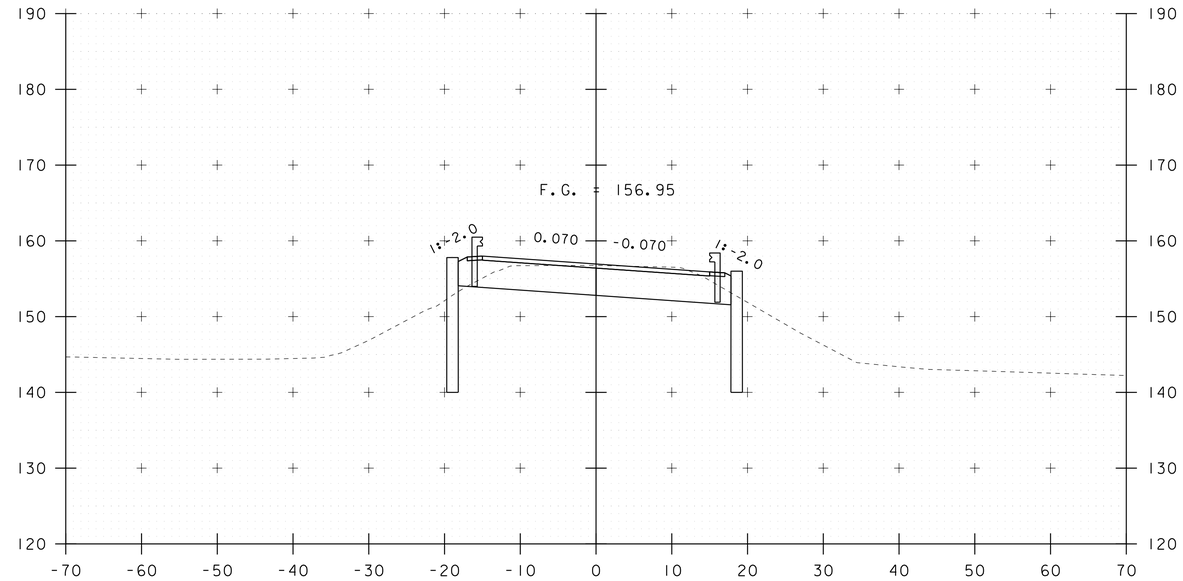
103+50

STA. 103+00 TO STA. 103+75

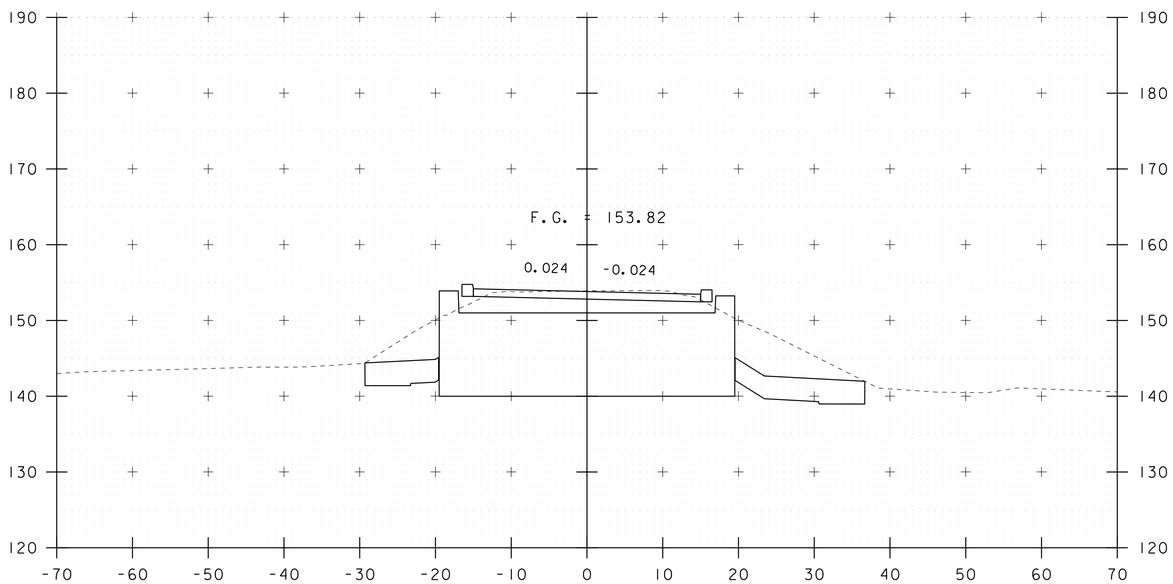
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 2	SHEET 16 OF 39



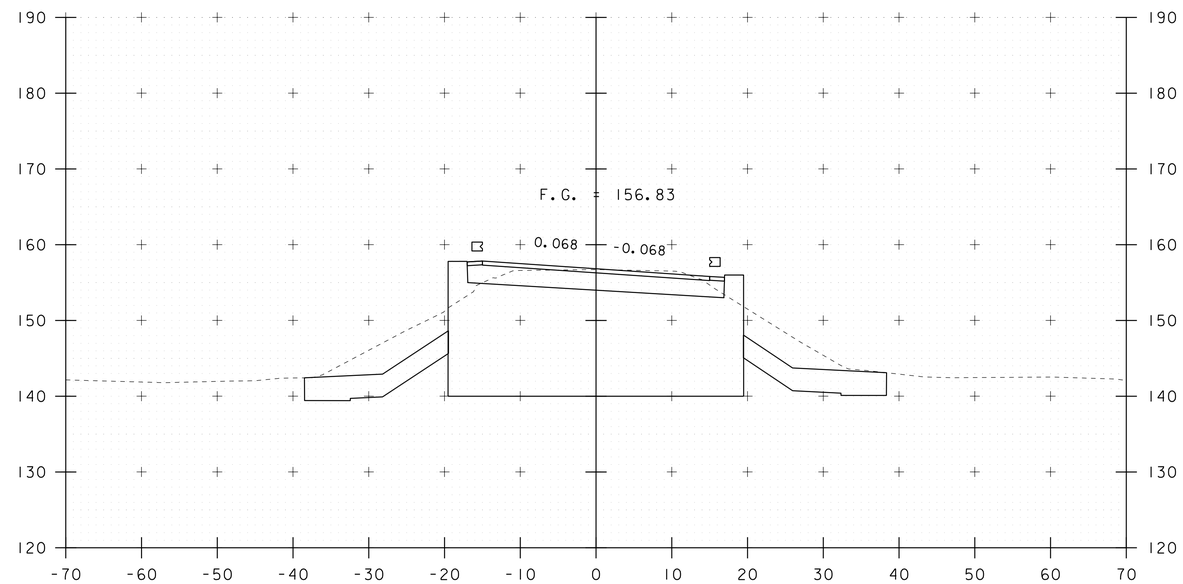
105+20



106+50



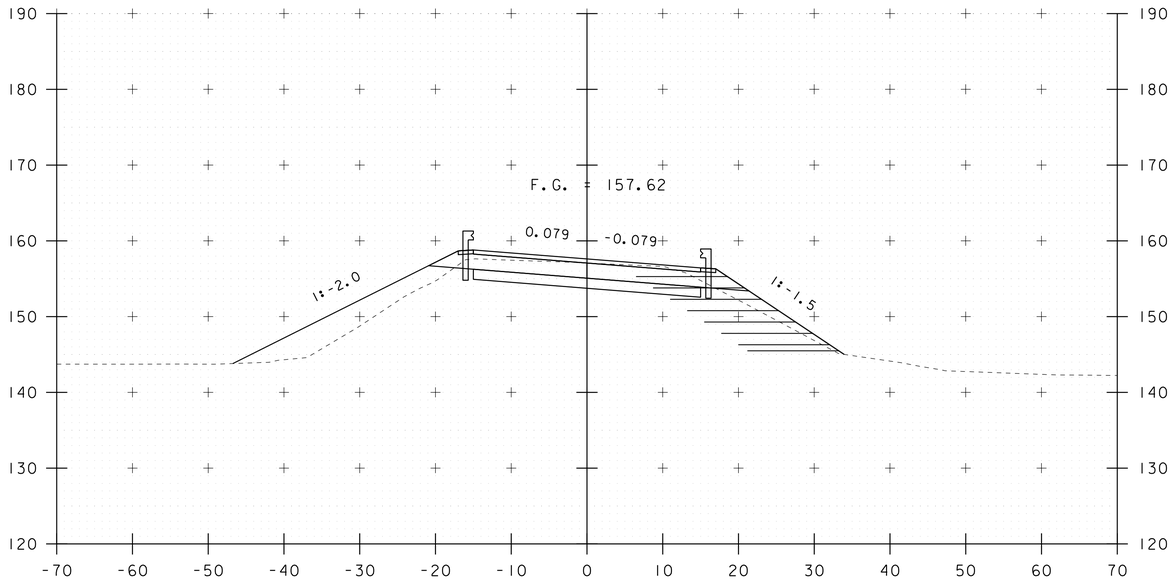
104+00



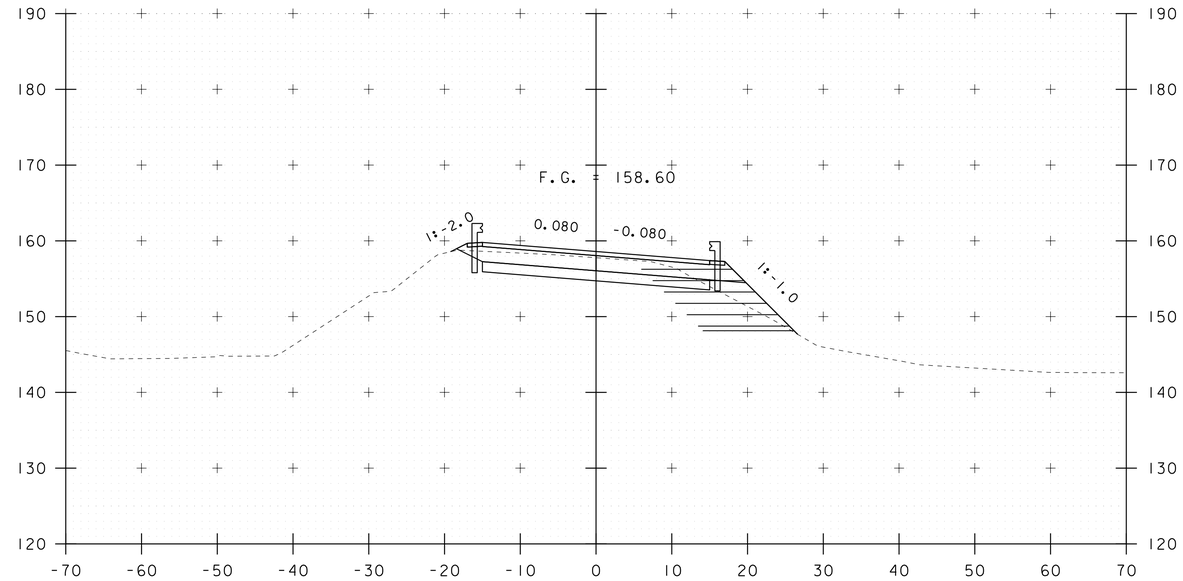
106+40

STA. 104+00 TO STA. 106+50

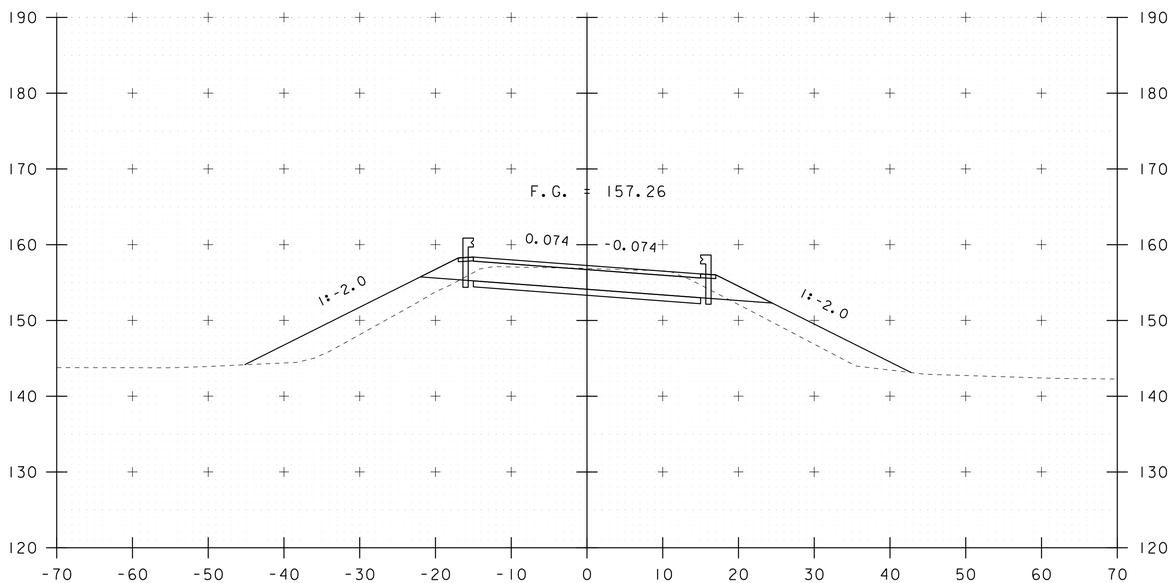
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 3	SHEET 17 OF 39



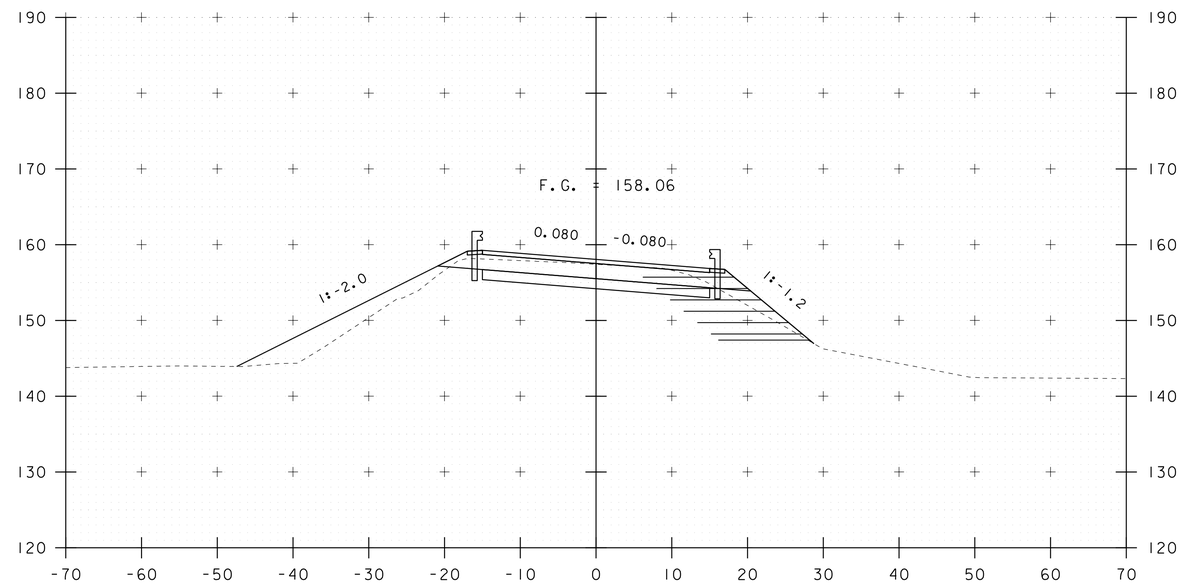
107+00



107+50



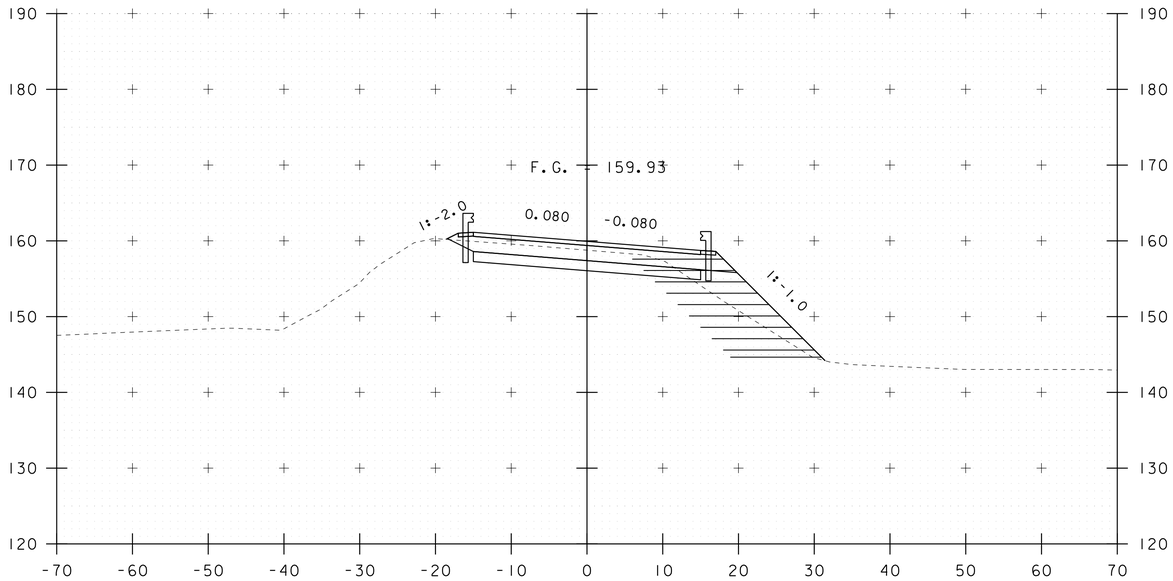
106+75



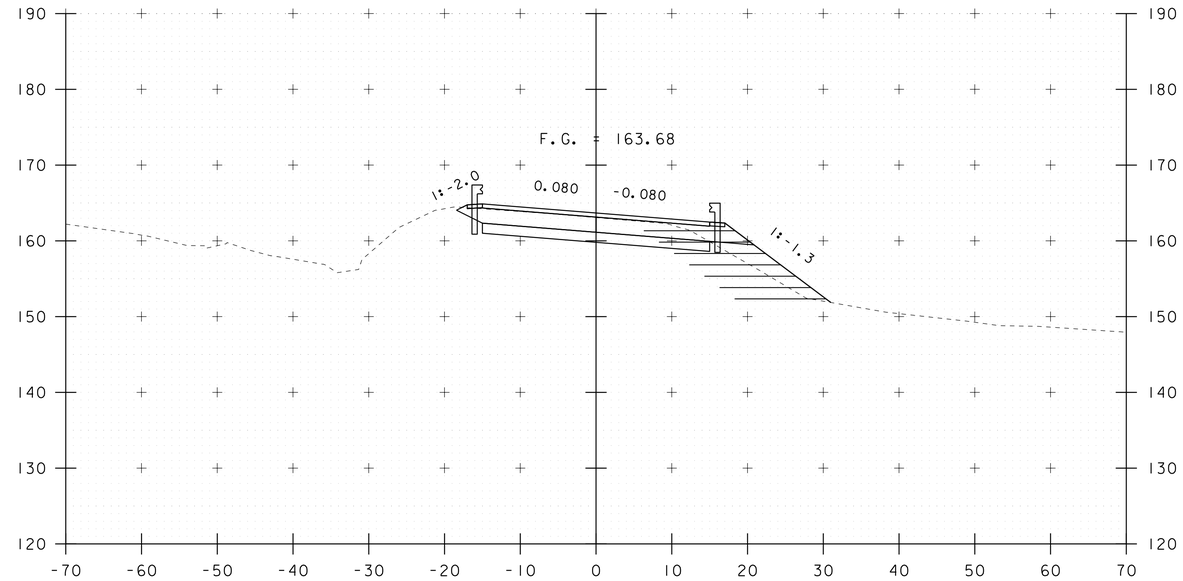
107+25

STA. 106+75 TO STA. 107+50

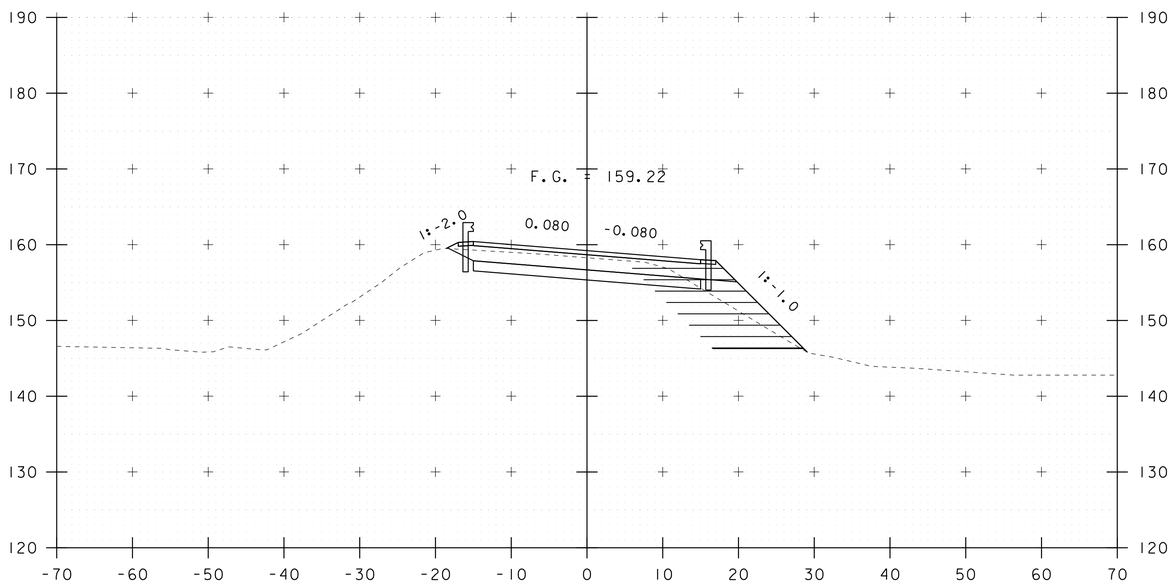
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 4	SHEET 18 OF 39



108+00



109+00



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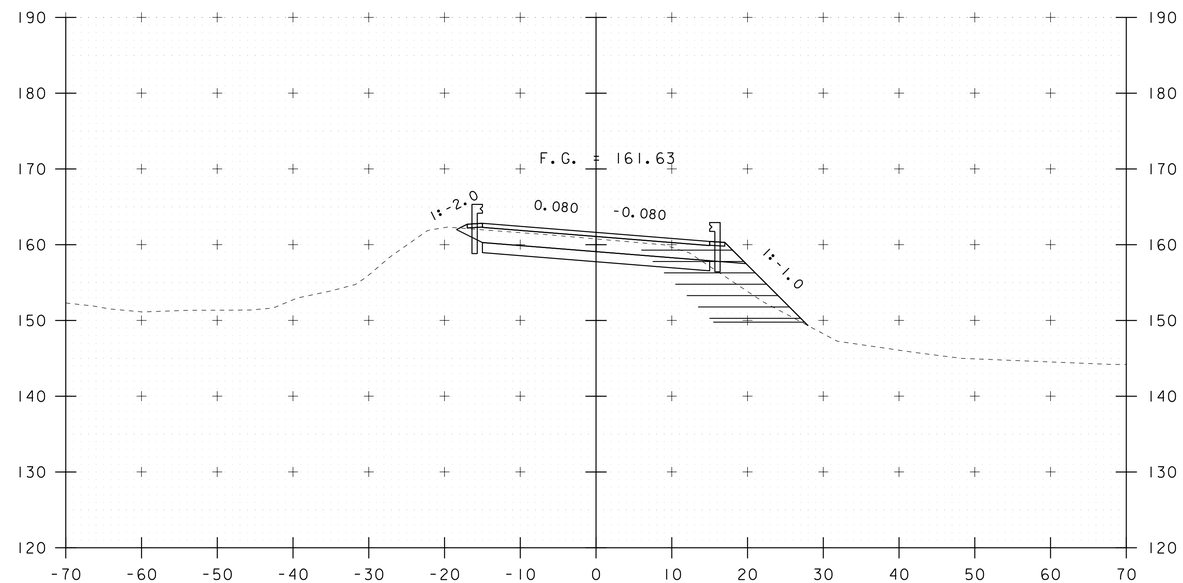
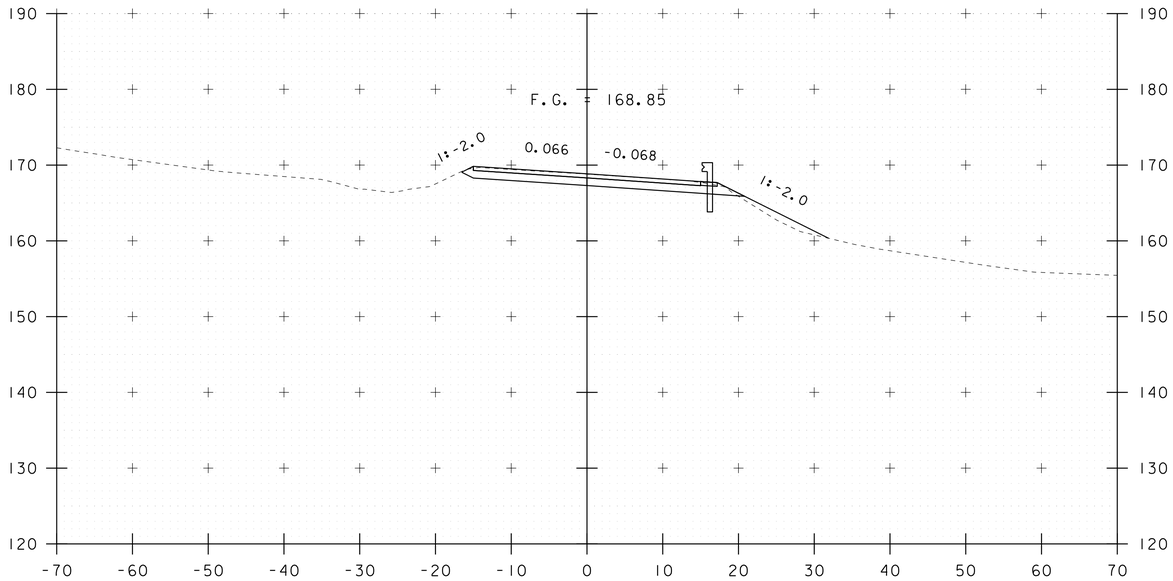


108+50

STA. 107+75 TO STA. 109+00

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
VT 17 CROSS SECTIONS 5	SHEET 19 OF 39



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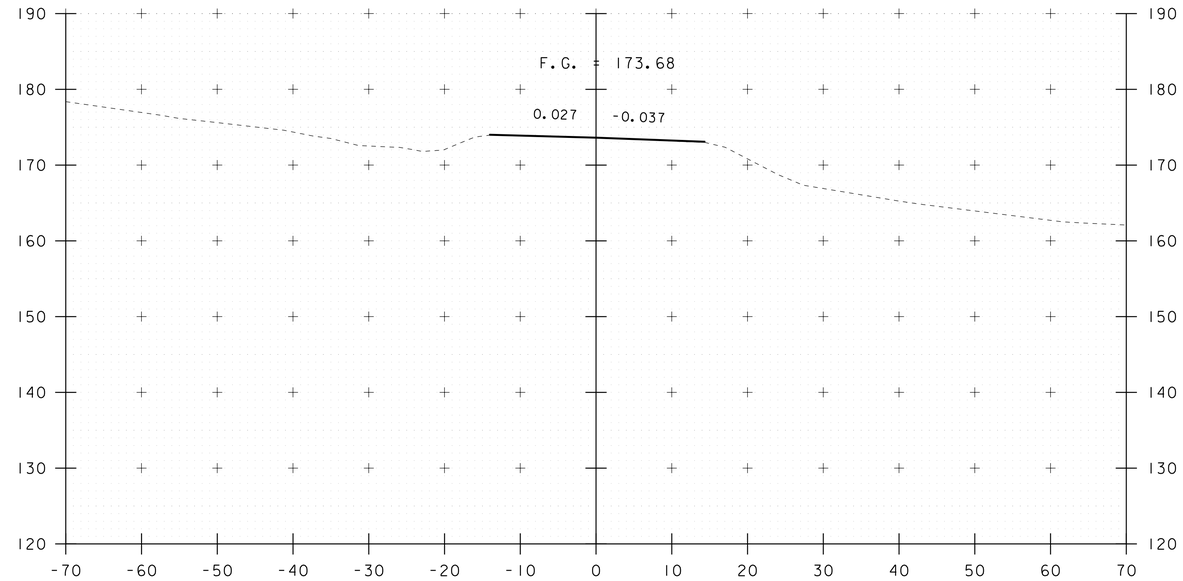

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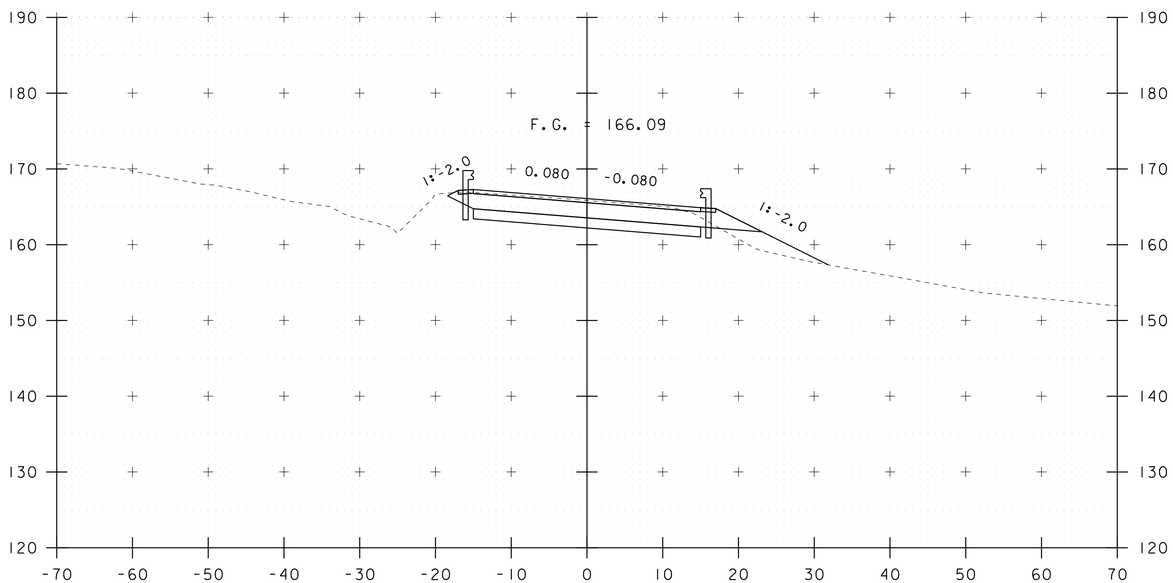

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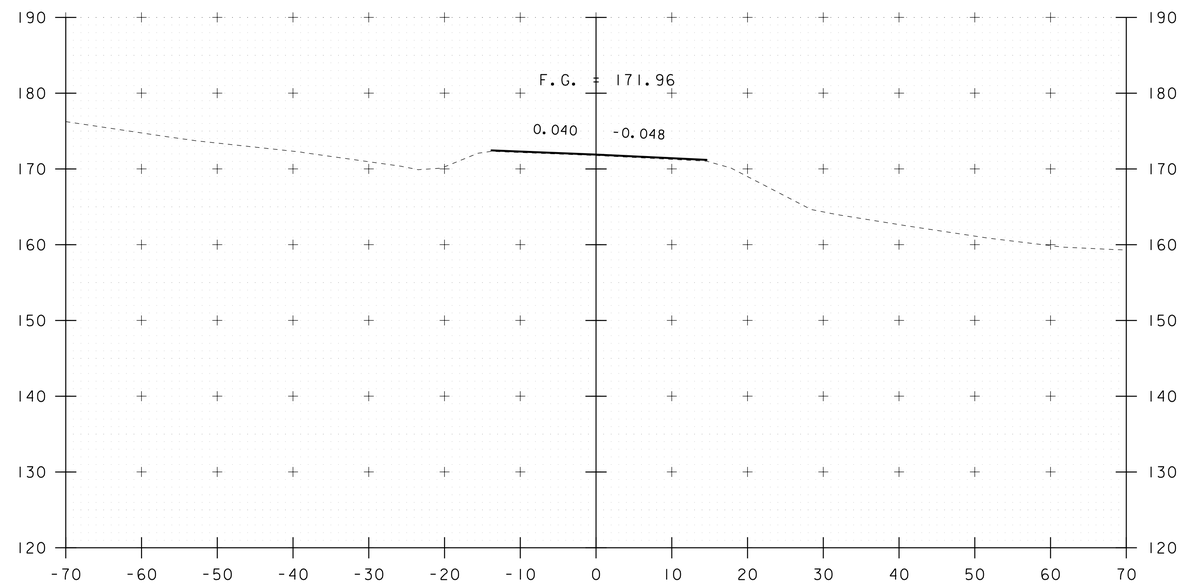

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STA. 109+50 TO STA. 110+75

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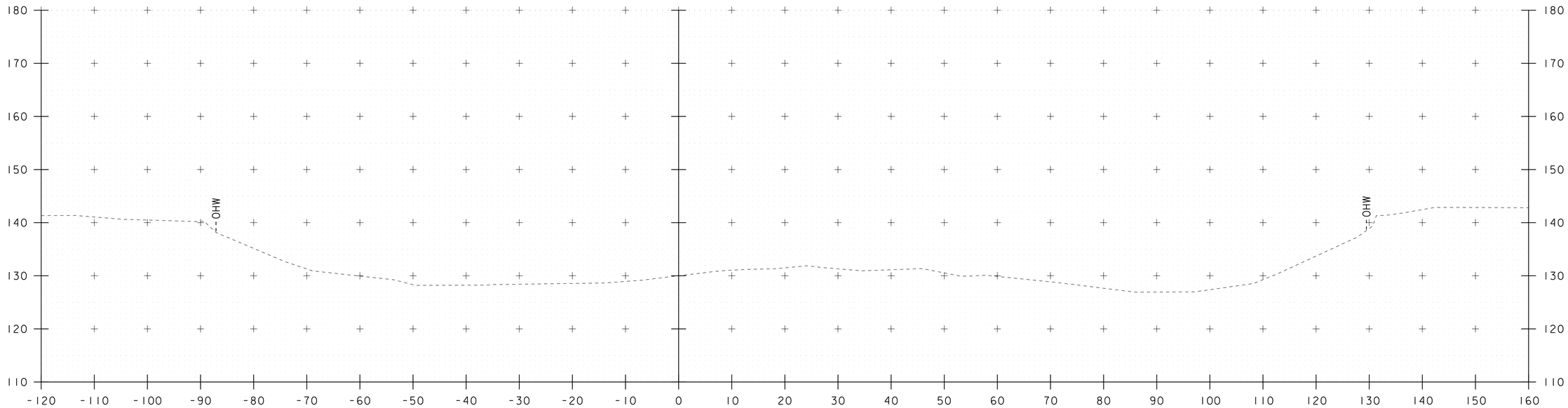
VT 17 CROSS SECTIONS 6	SHEET 20 OF 39



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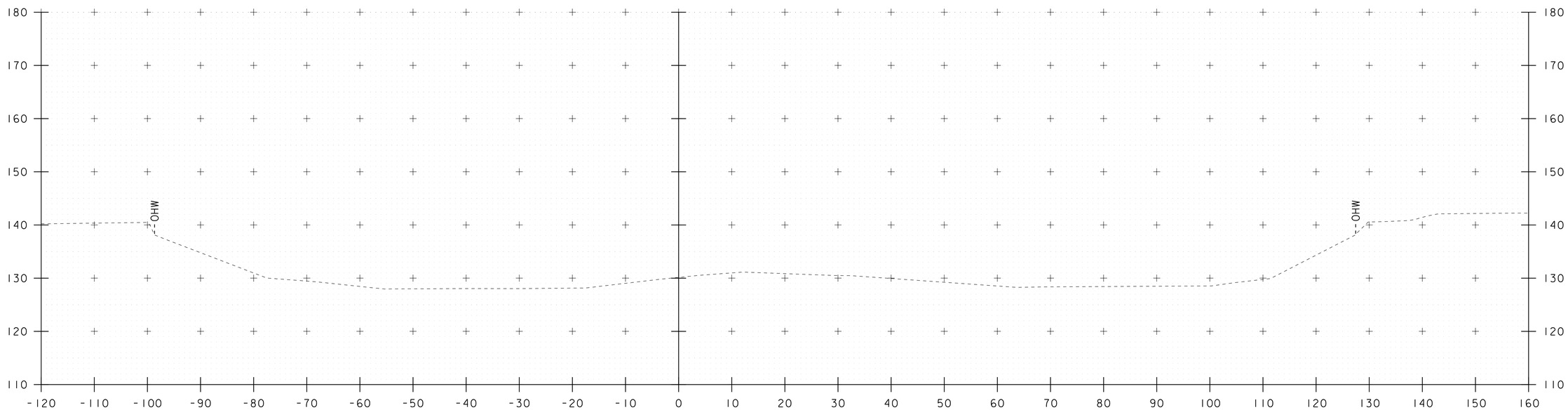

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PROJECT NUMBER: BF 032-1(19)	
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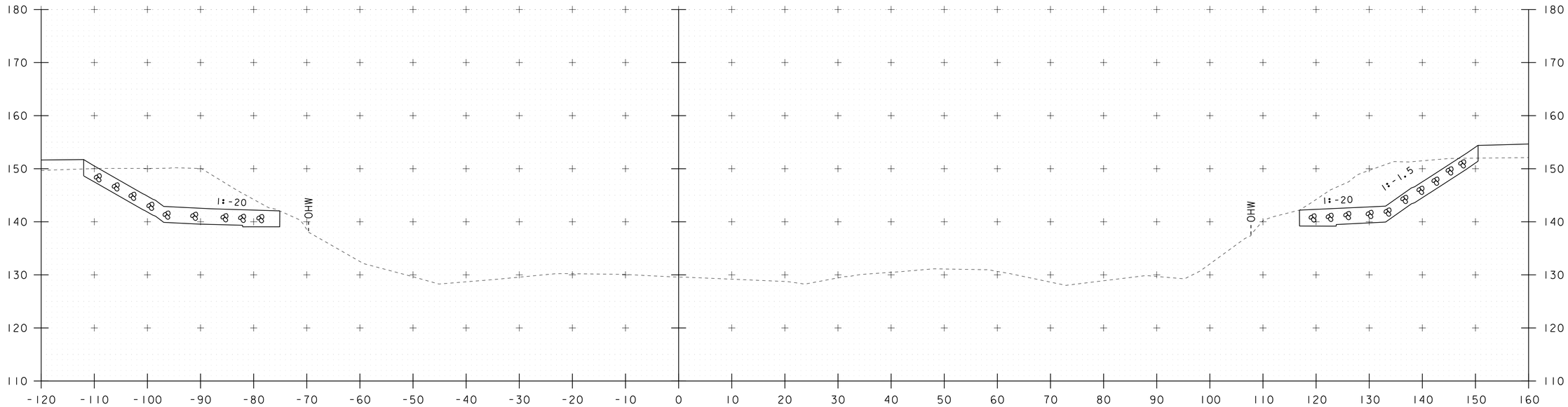
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 1	SHEET 21 OF 39



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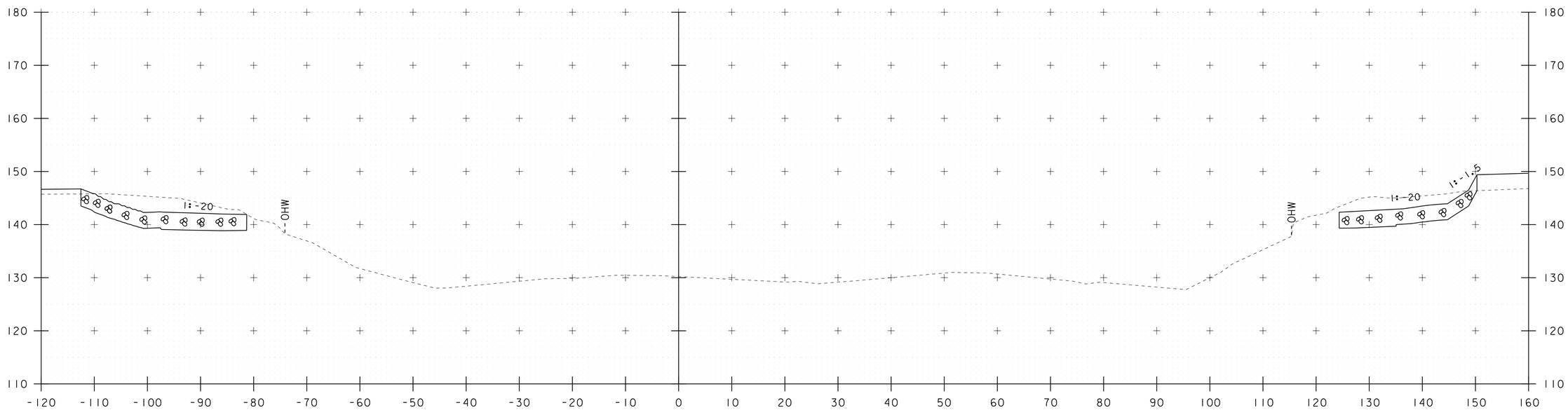

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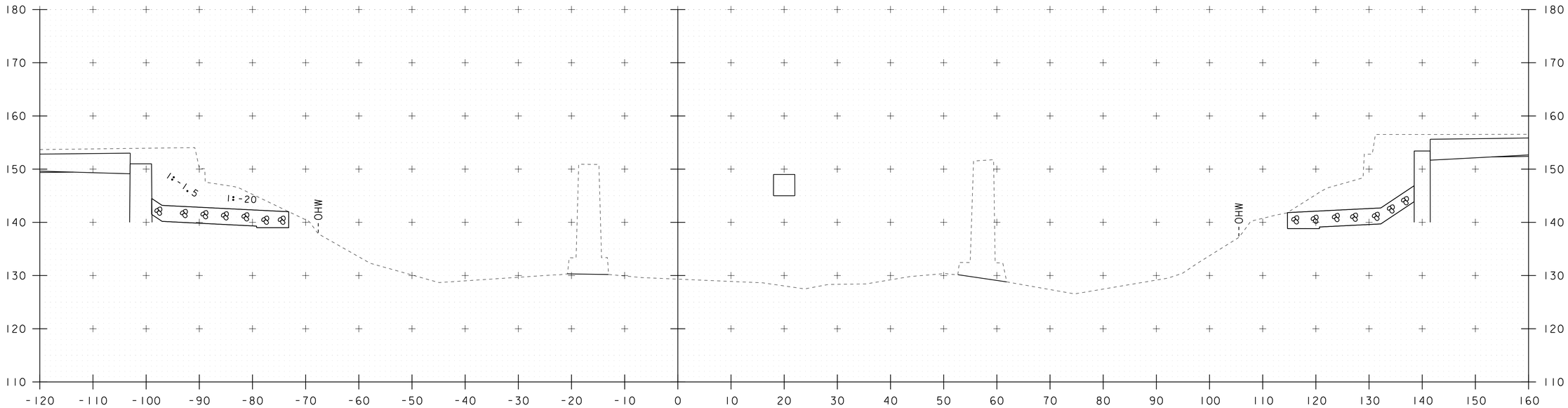
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 2	SHEET 22 OF 39

STA. 50+70 TO STA. 50+80



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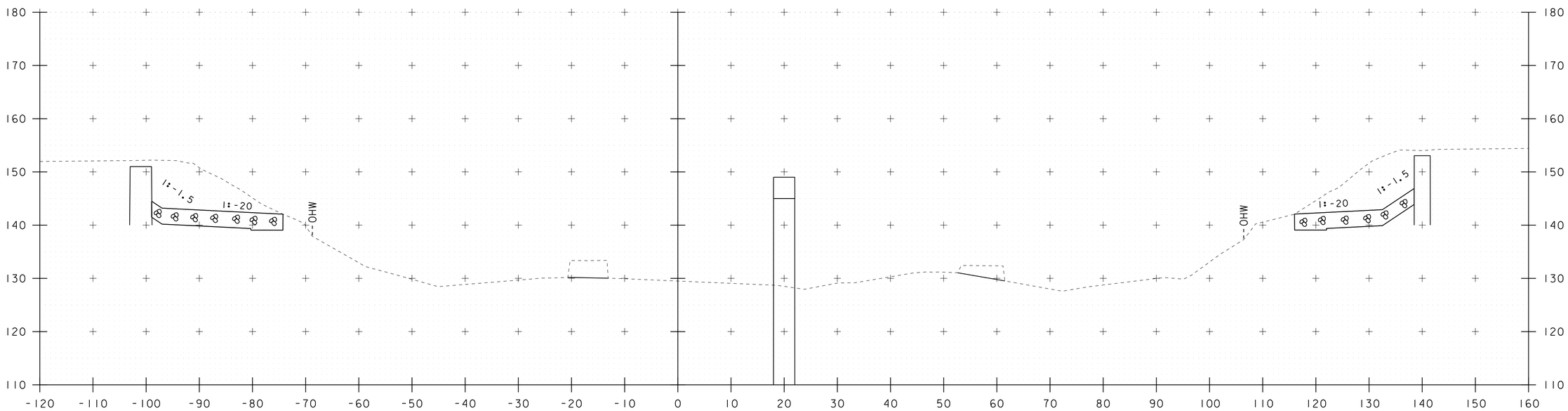

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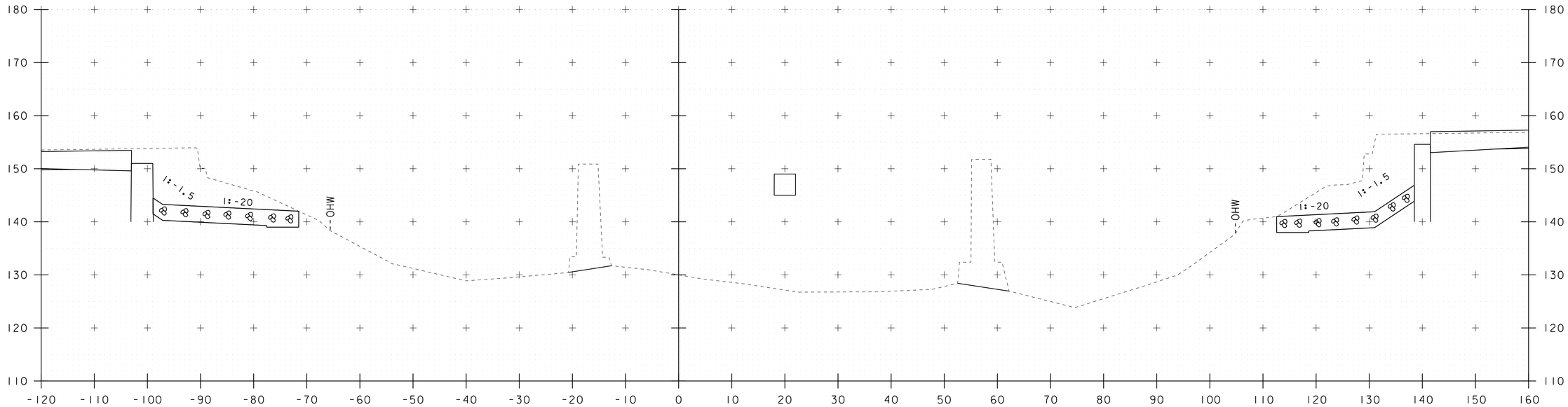
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 3	SHEET 23 OF 39



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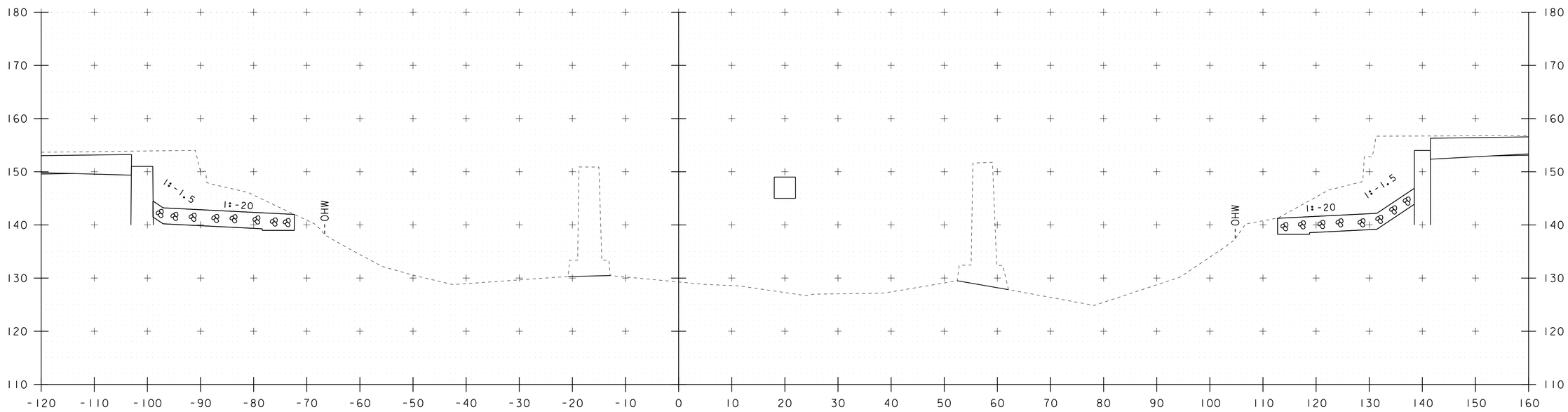

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PROJECT NUMBER: BF 032-1(19)	
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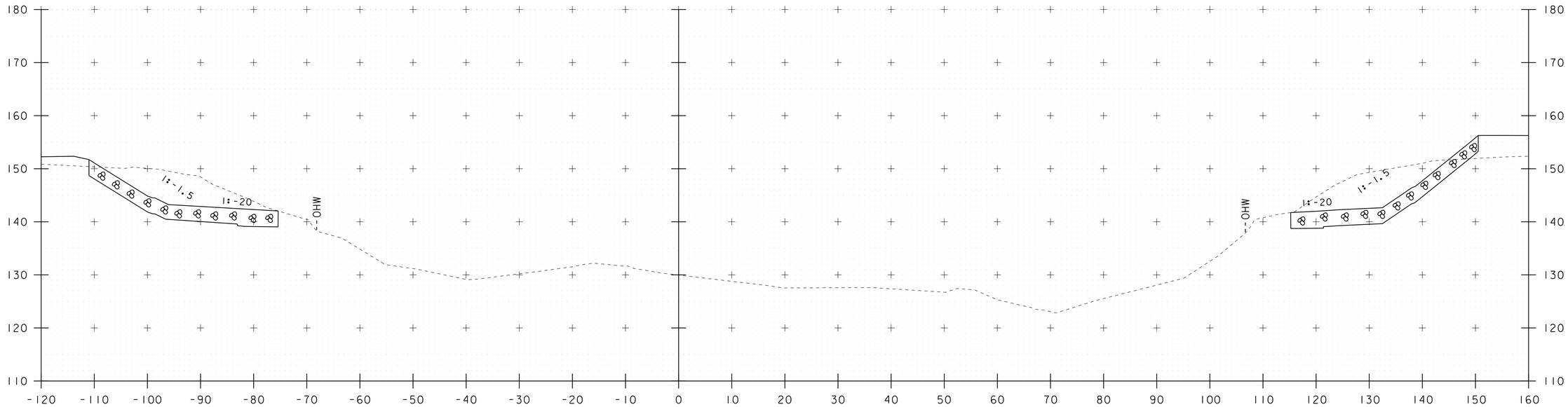
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 4	SHEET 24 OF 39



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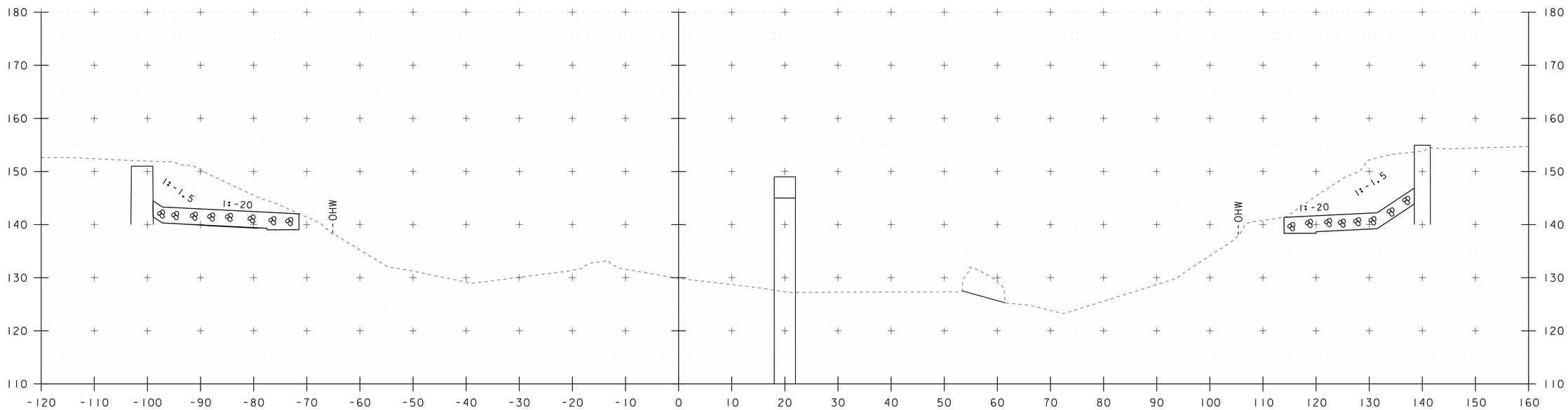

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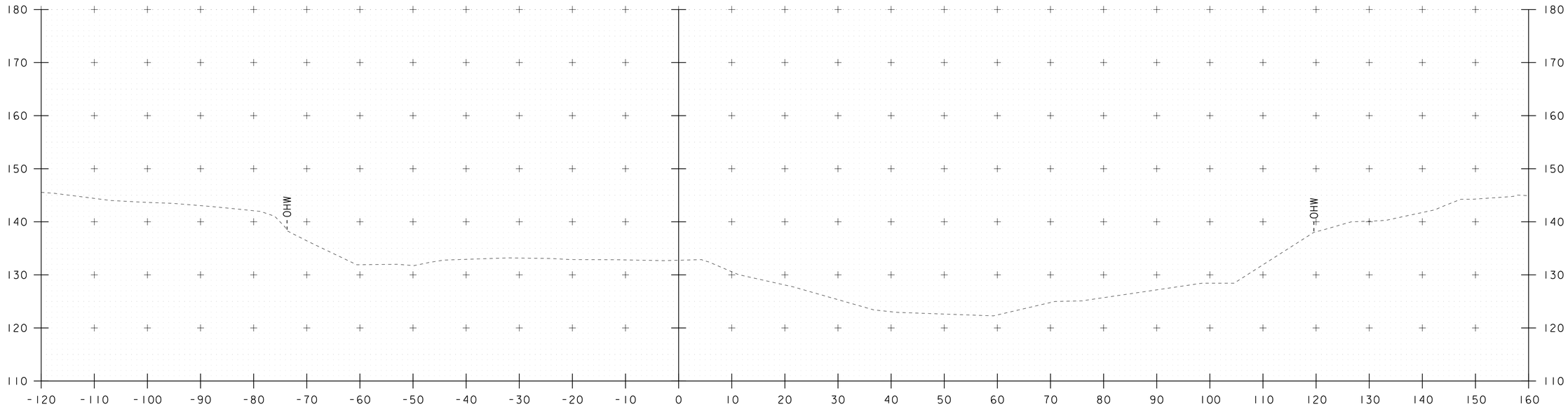
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 5	SHEET 25 OF 39



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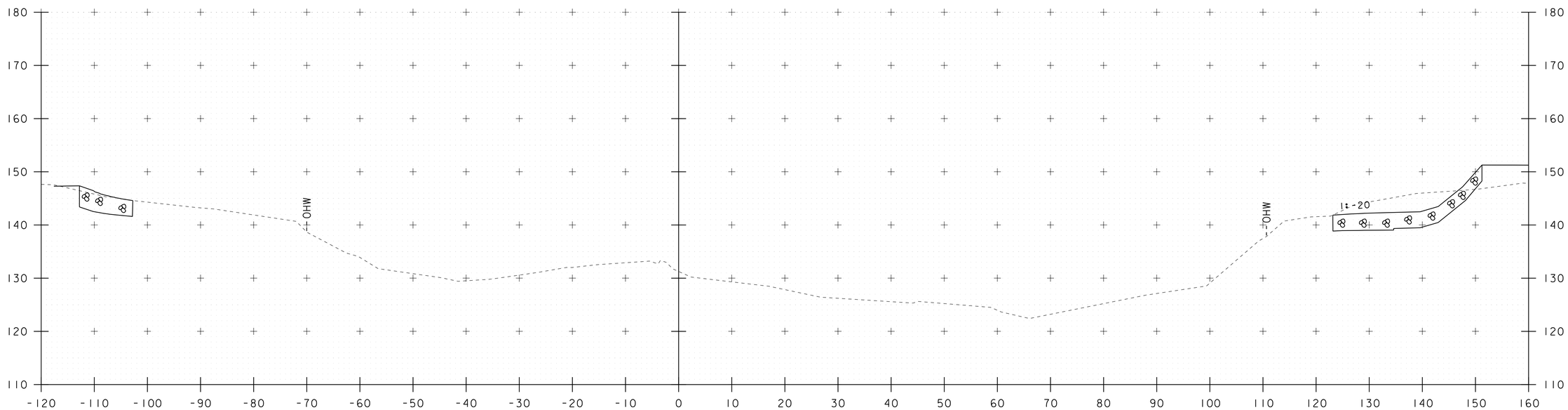

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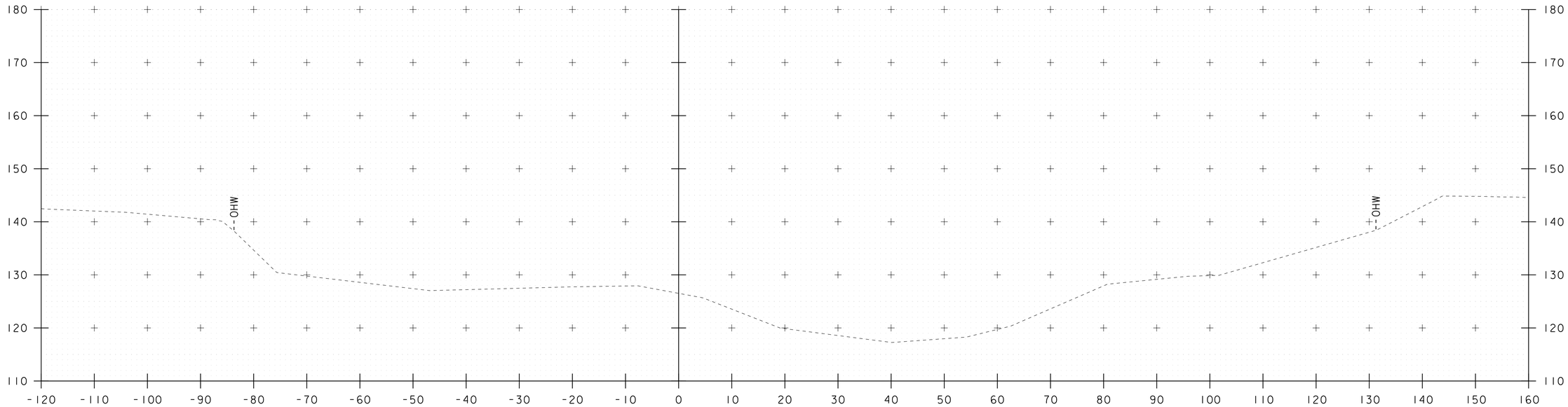
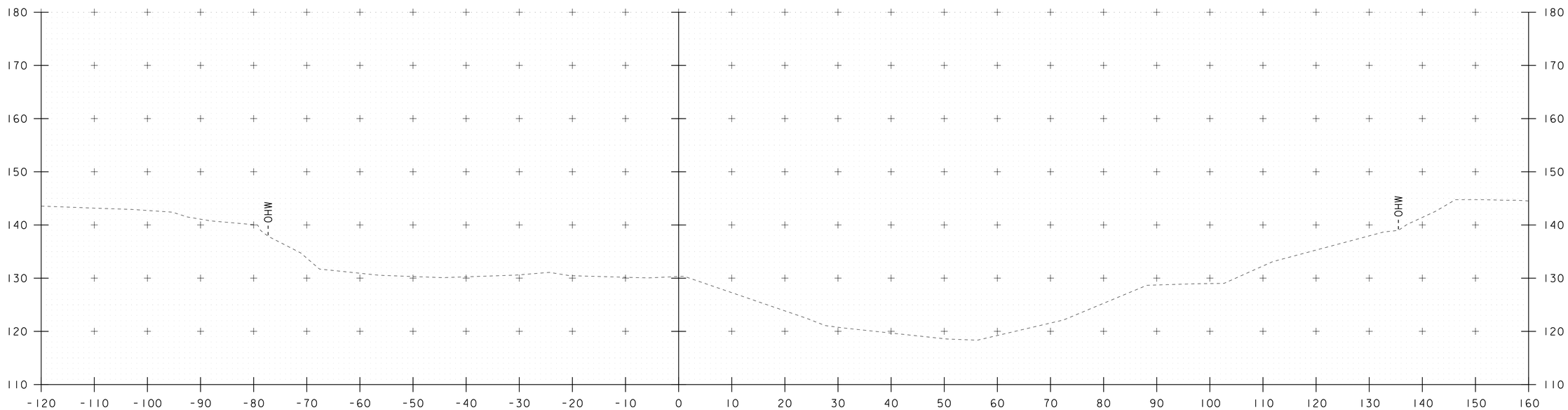
DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 6	SHEET 26 OF 39



52+00



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PROJECT NUMBER: BF 032-1(19)	
FILE NAME: s12b552xs.dgn	PLOT DATE: 06-SEP-2016
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DESIGNED BY: D. PETERSON	CHECKED BY: D. PETERSON
CHANNEL CROSS SECTIONS 7	SHEET 27 OF 39

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 ROUT 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 825.00 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 1.52 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 ON 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: NO , NOT WITHIN THE PROJECT LIMITS.
PRIME AGRICULTURAL LAND: N
THREATENED AND ENDANGERED SPECIES: NO
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.

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 EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS. STONE CHECK DAMS ARE NOT ANTICIPATED AT THIS TIME.

1.4.7 CONSTRUCT PERMANENT CONTROLS

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

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). 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.

1.5 SEQUENCE AND STAGING

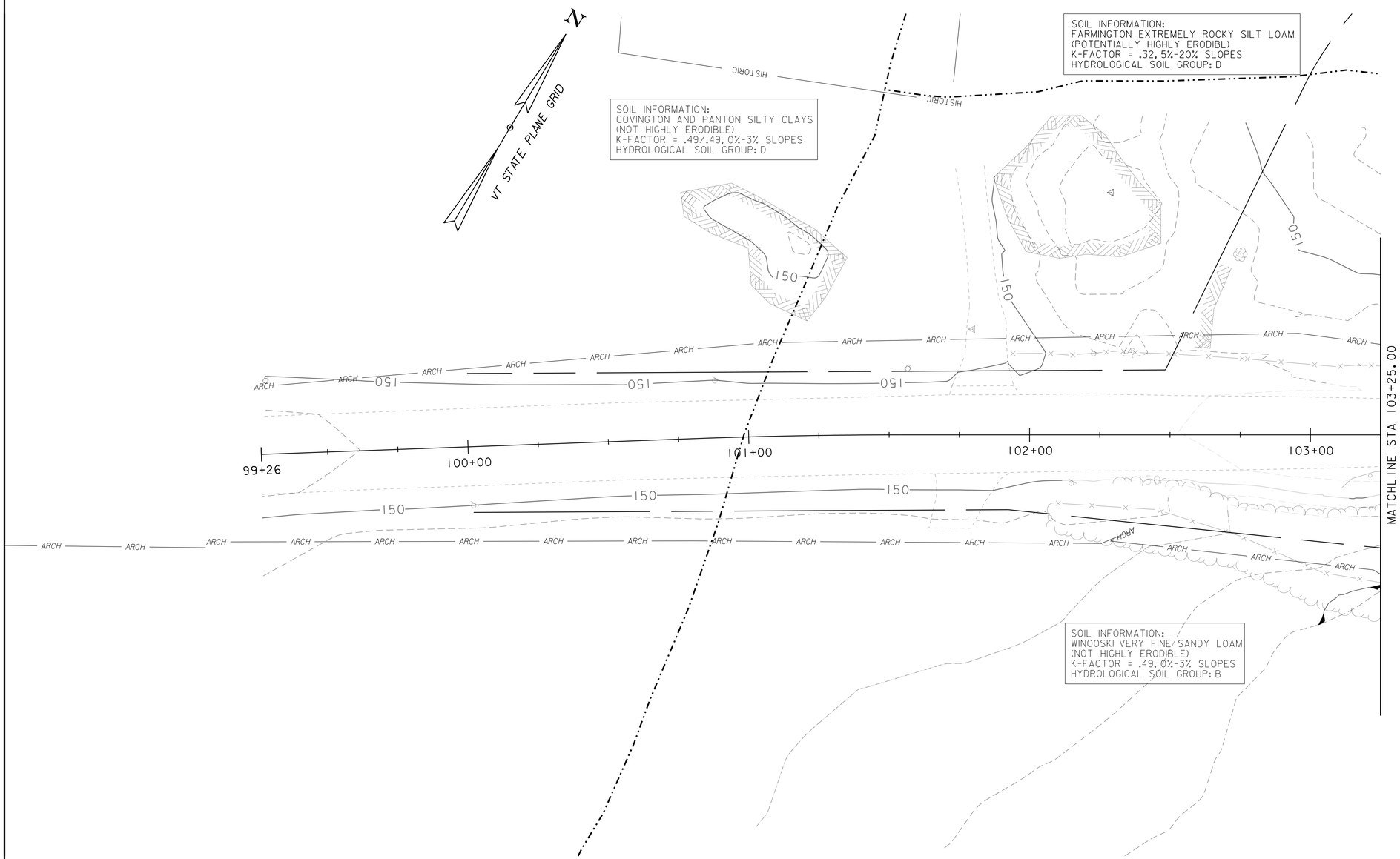
THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

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



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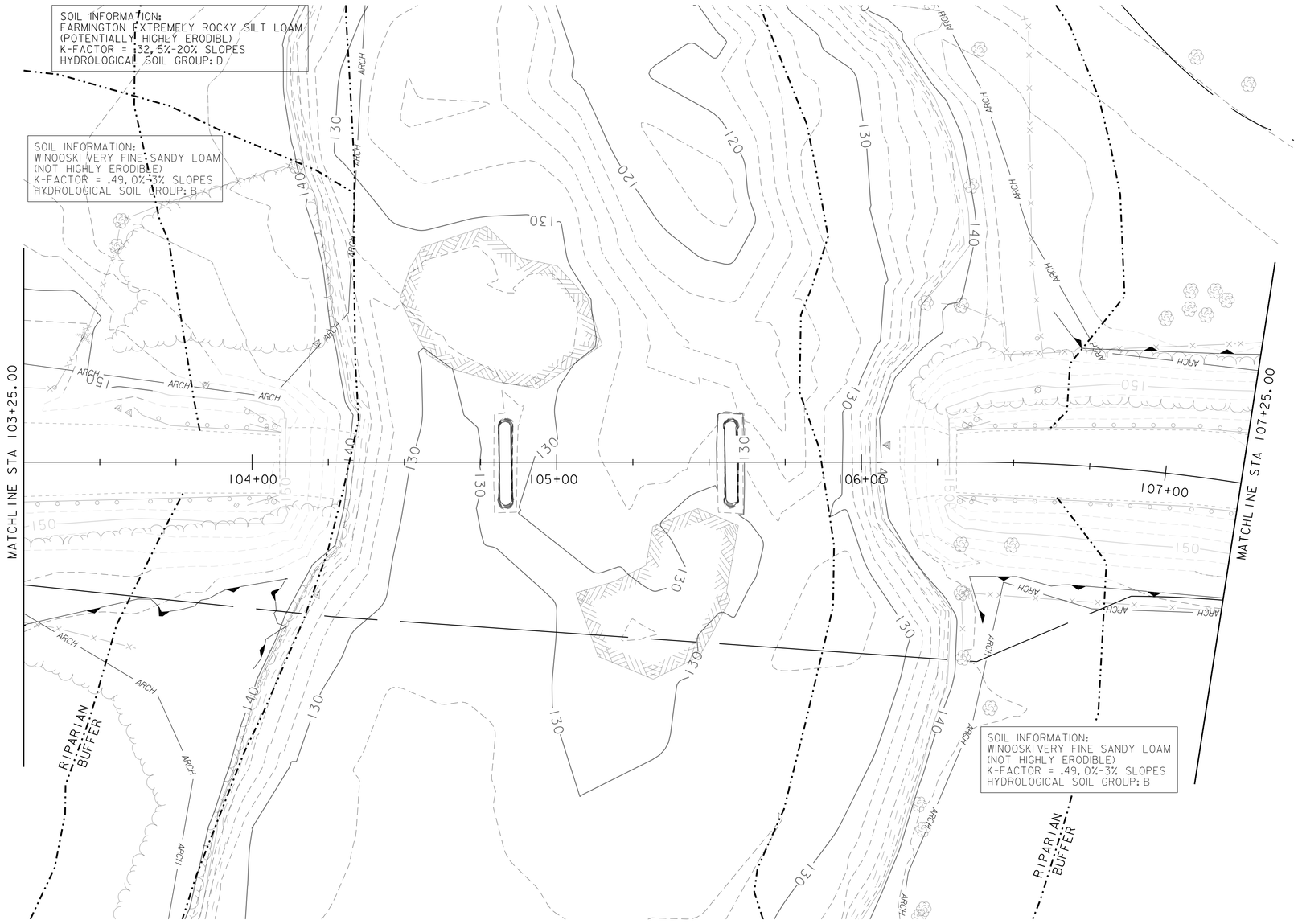
PROJECT NAME:	WEYBRIDGE-NEW HAVEN
PROJECT NUMBER:	BF 032-1(19)

FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC EXISTING LAYOUT 1	SHEET 29 OF 39



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PROJECT NUMBER:	BF 032-1(19)

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PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
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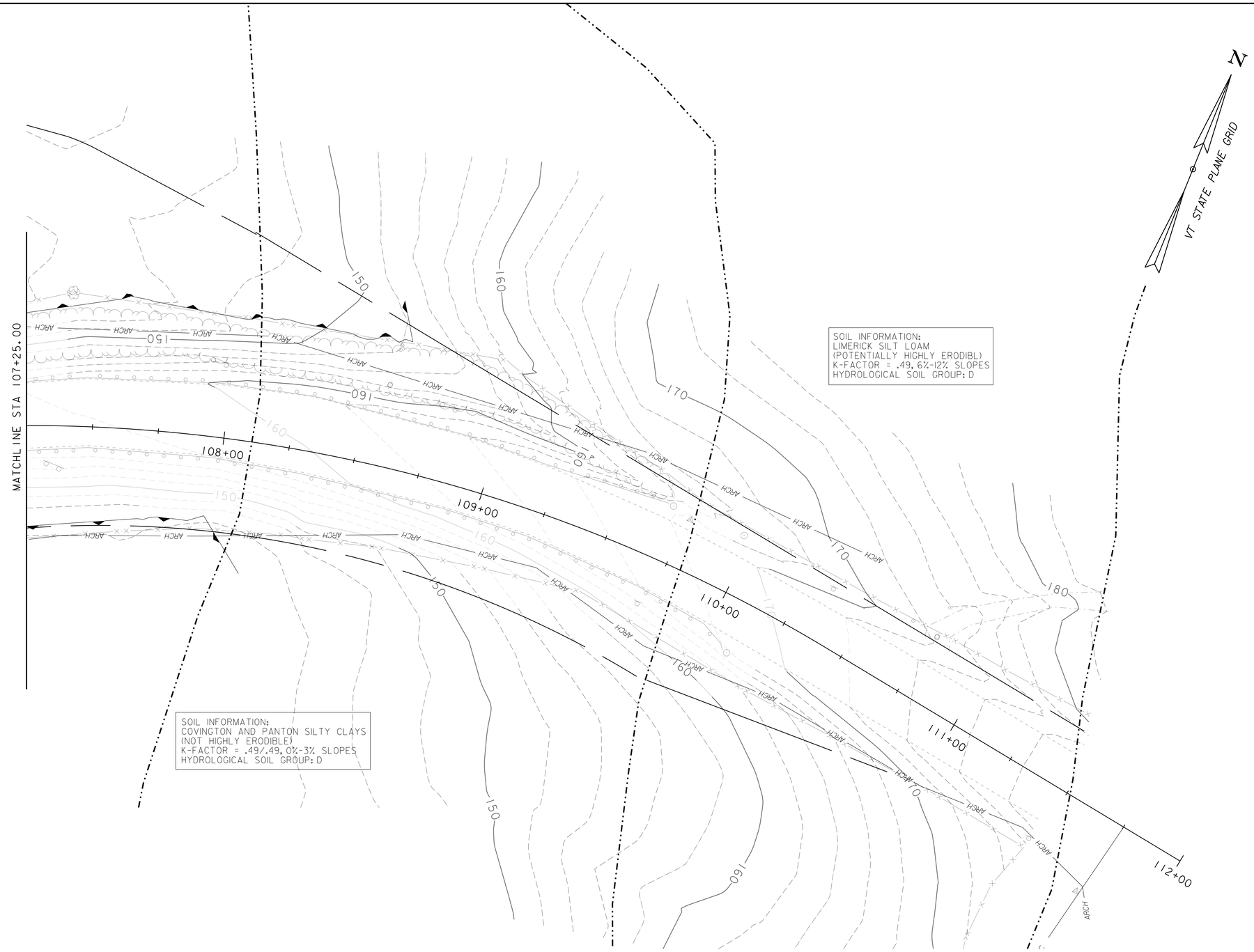

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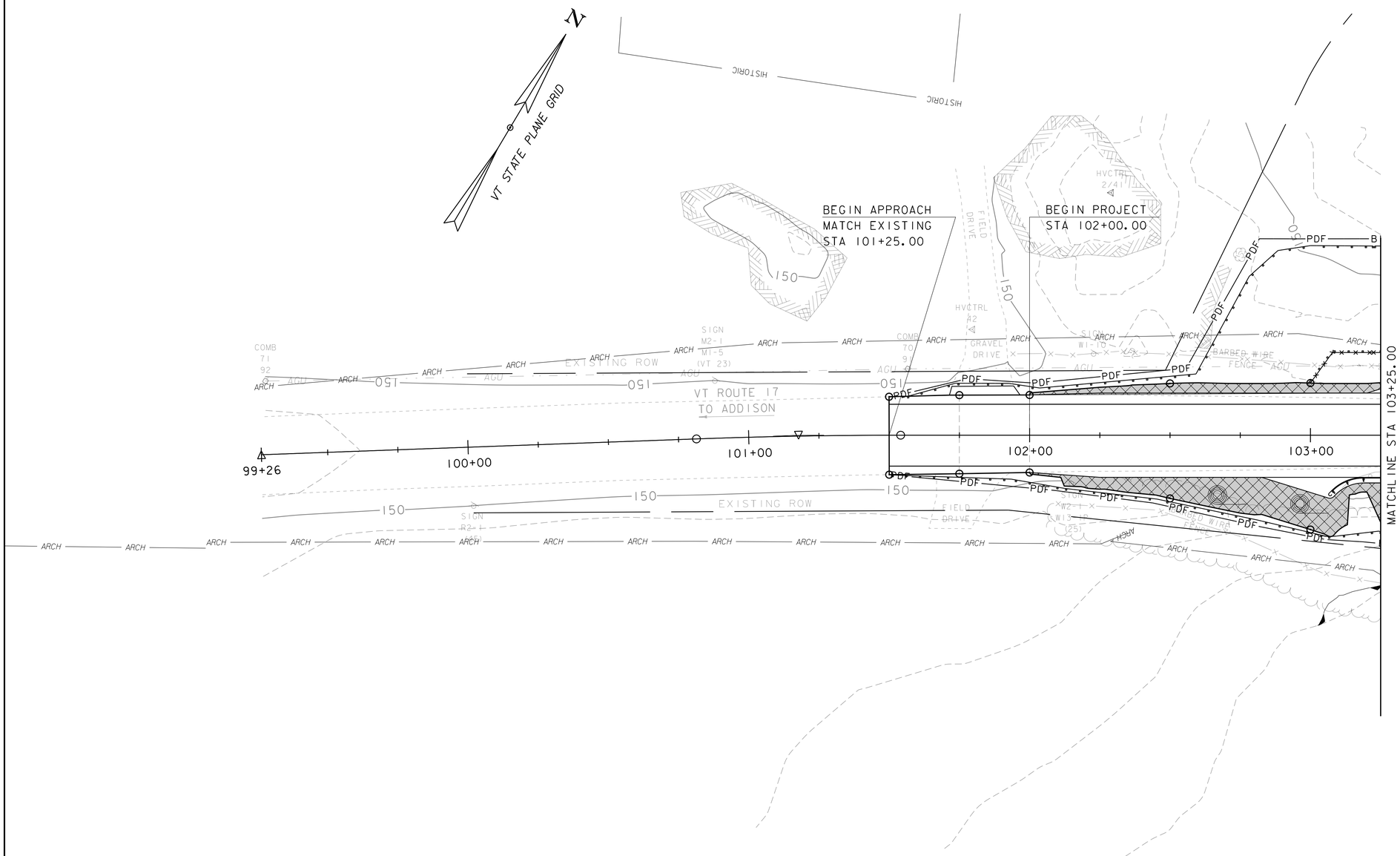
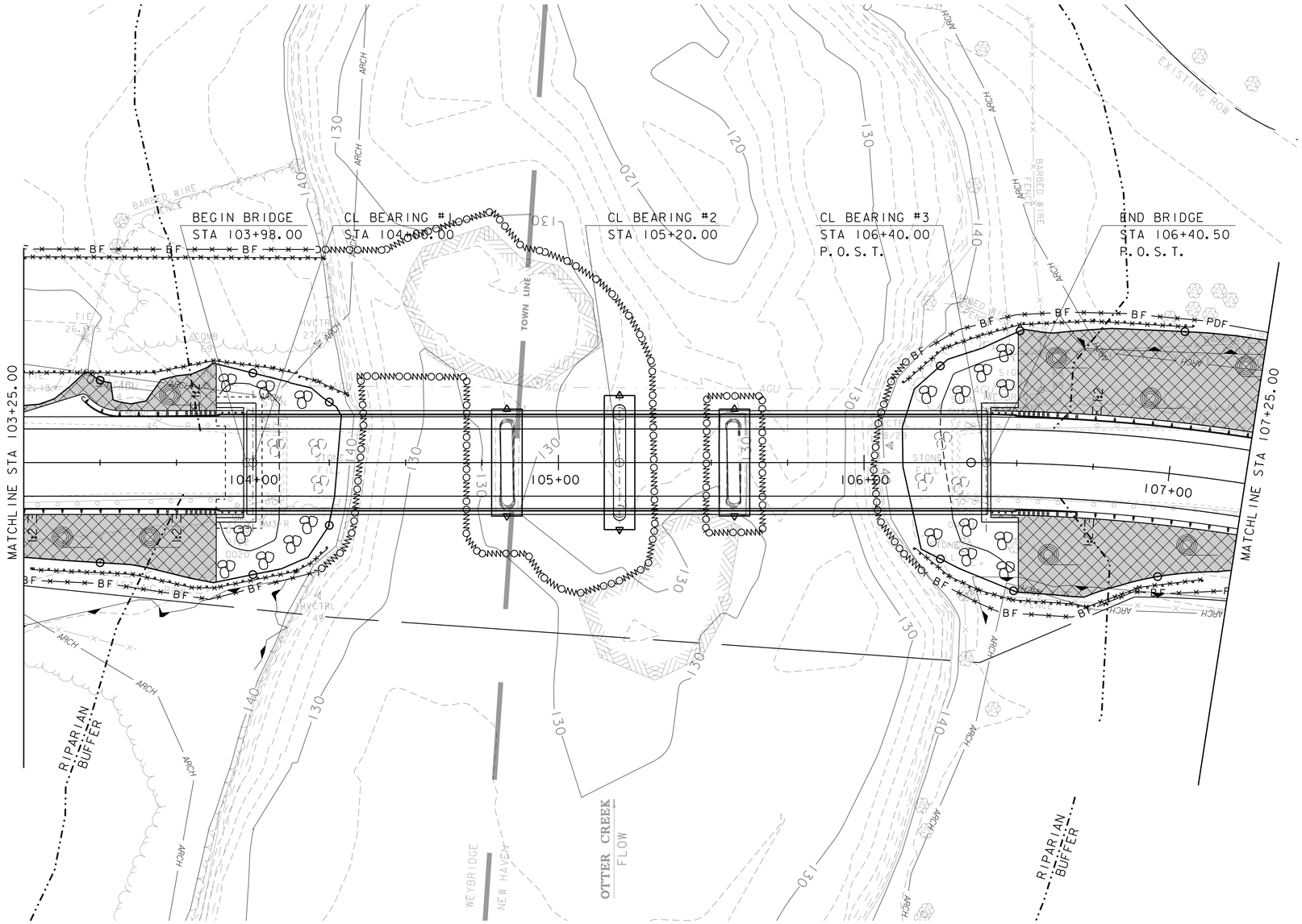
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC EXISTING LAYOUT 3	SHEET 31 OF 39



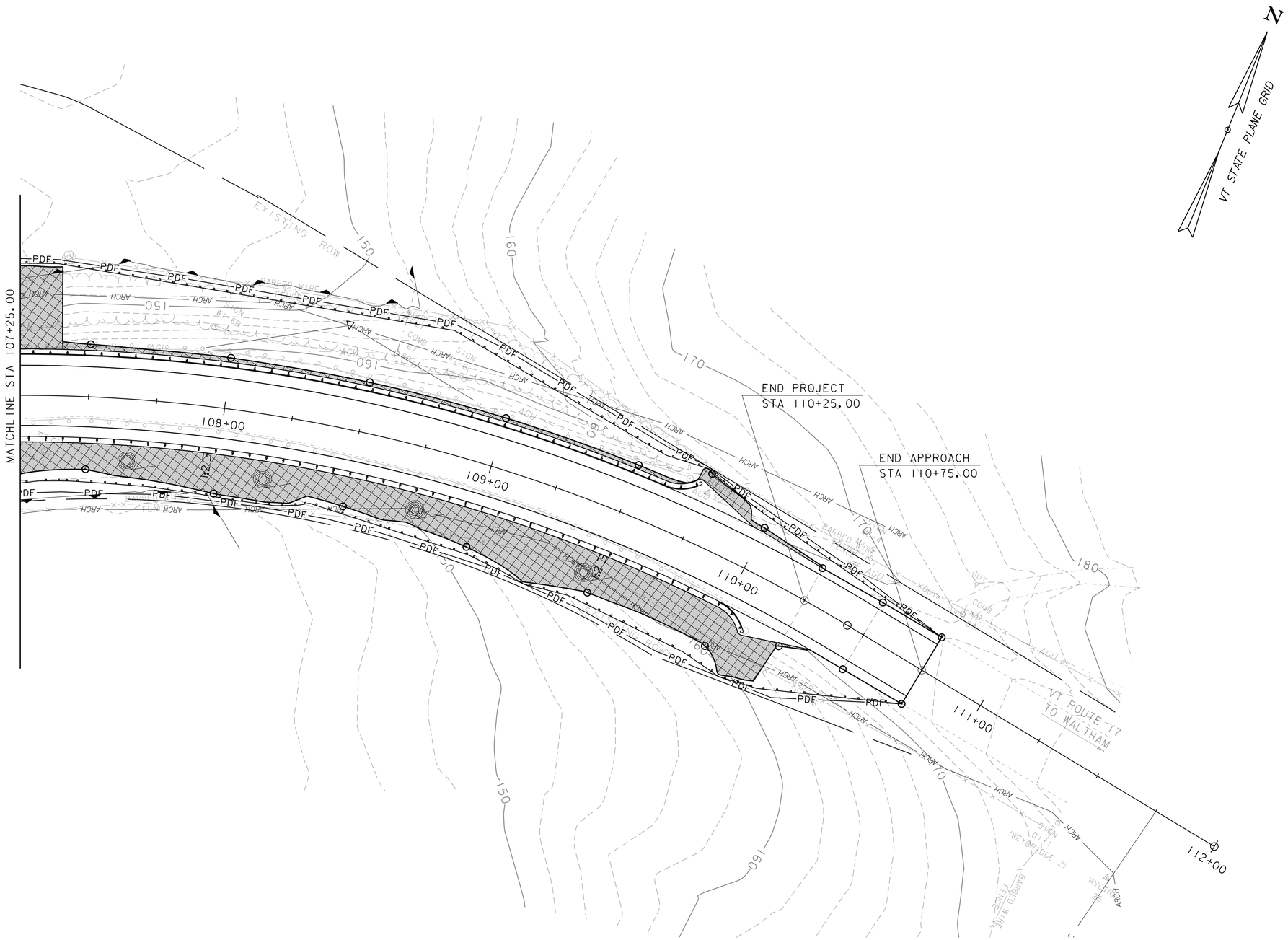
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC CONSTRUCTION LAYOUT 1	SHEET 32 OF 39



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

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC CONSTRUCTION LAYOUT 2	SHEET 33 OF 39



SCALE 1" = 20'-0"
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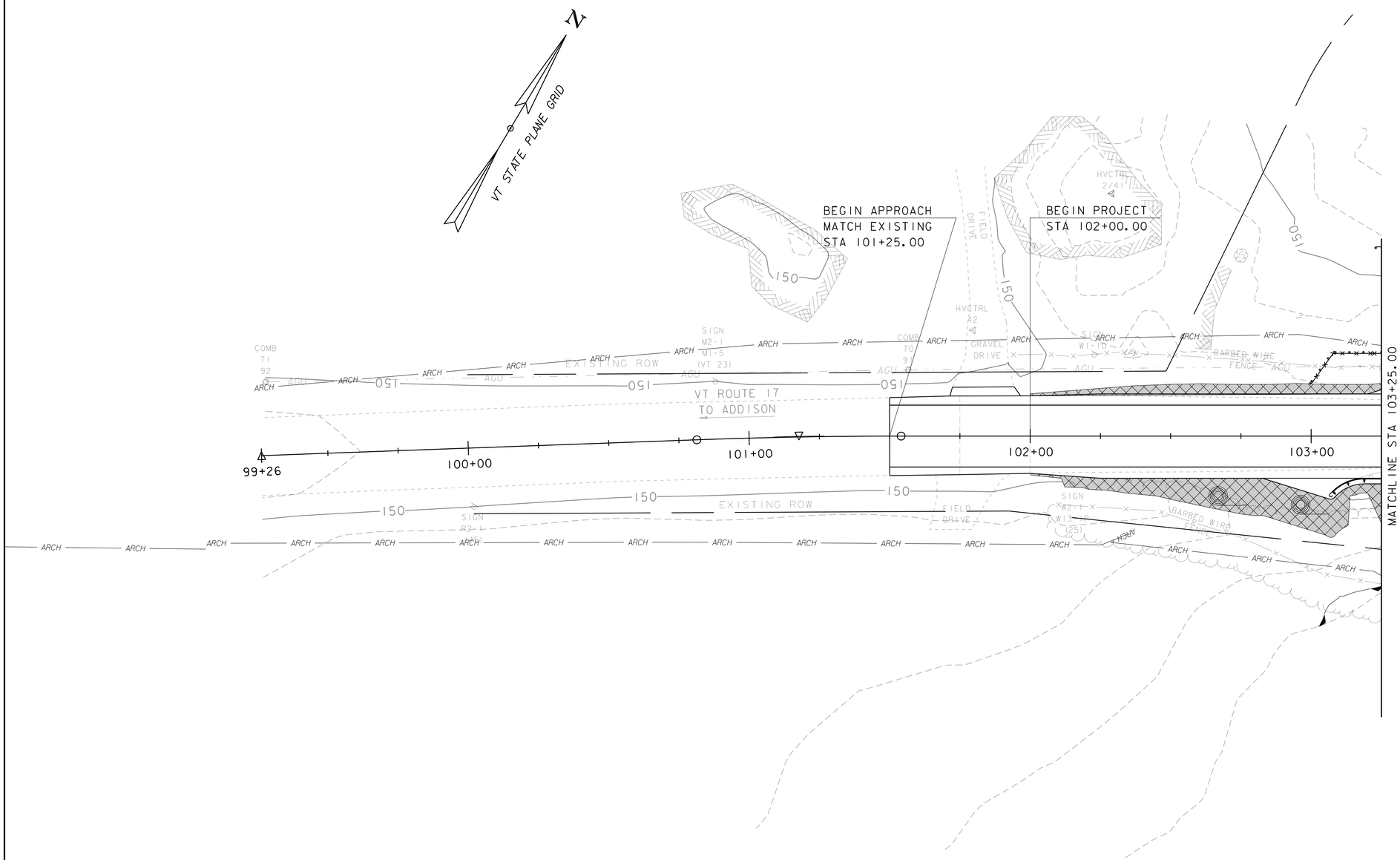
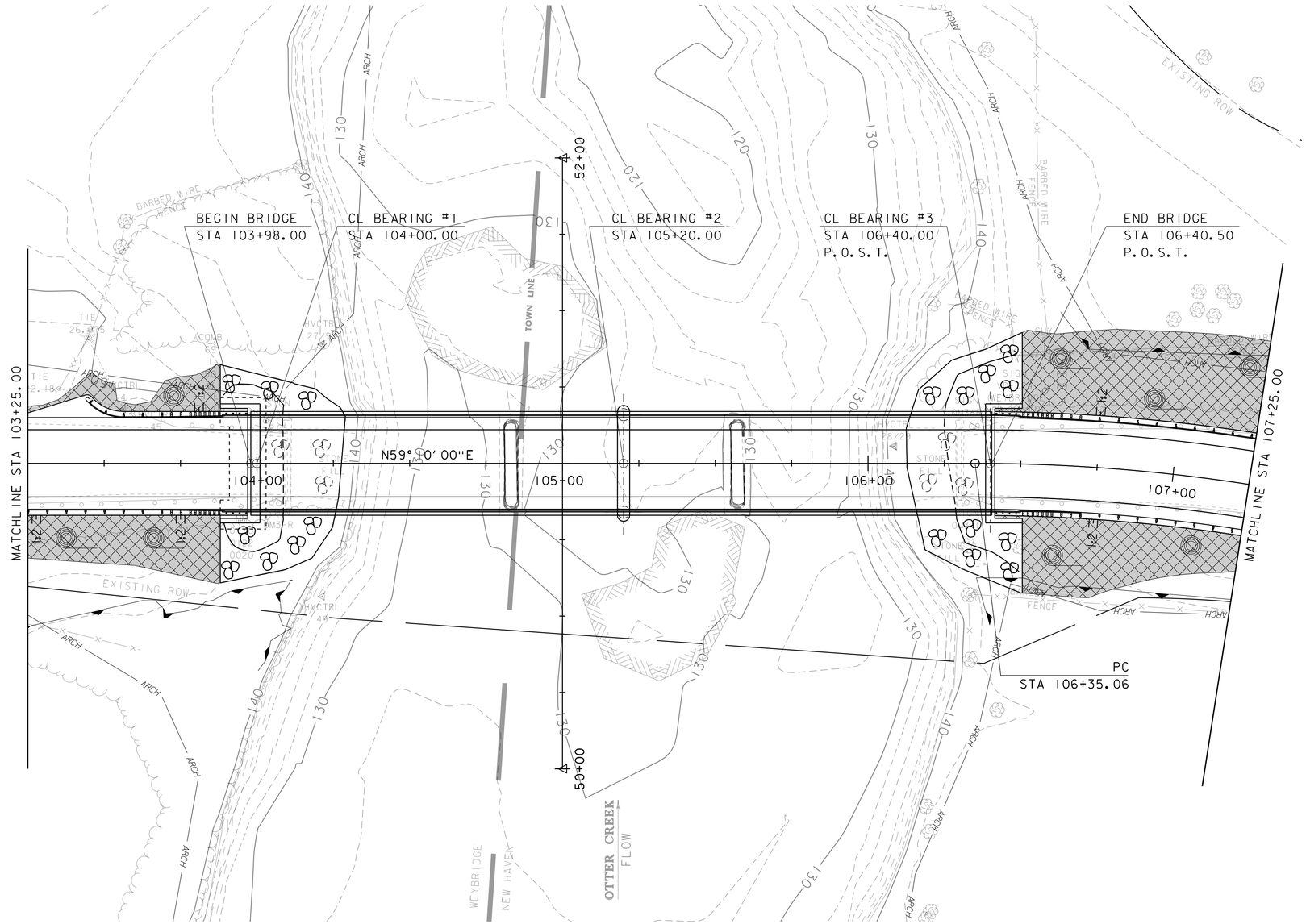
PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/s12b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC CONSTRUCTION LAYOUT 3	SHEET 34 OF 39



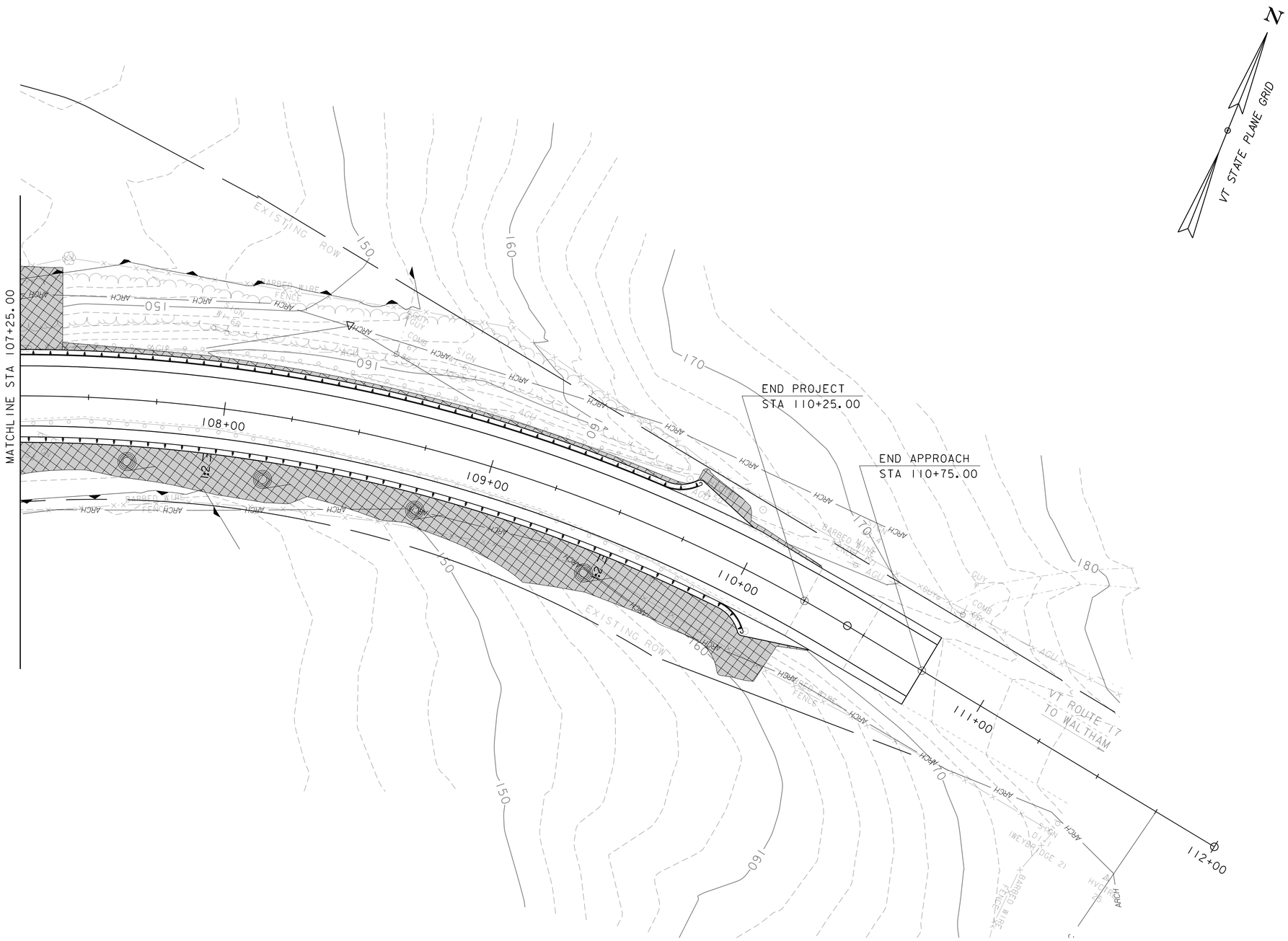
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC FINAL LAYOUT 1	SHEET 35 OF 39



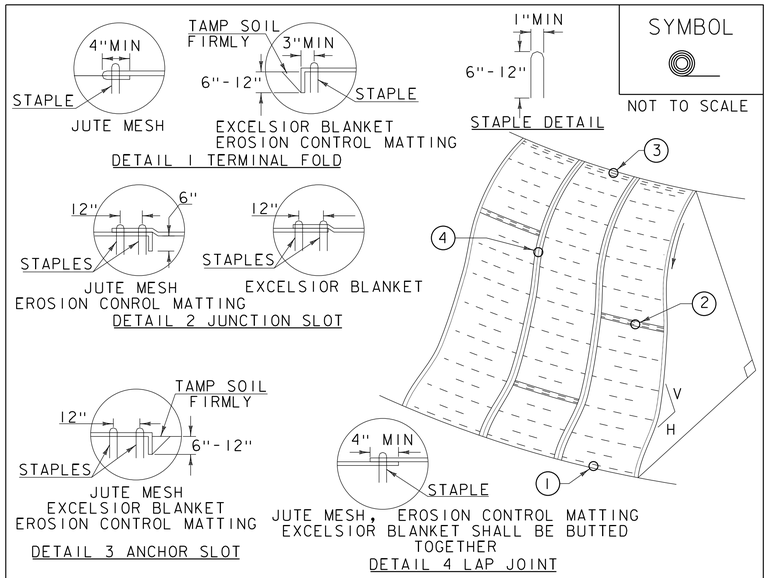
SCALE 1" = 20'-0"
20 0 20

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC FINAL LAYOUT 2	SHEET 36 OF 39



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

PROJECT NAME: WEYBRIDGE-NEW HAVEN	
PROJECT NUMBER: BF 032-1(19)	
FILE NAME: 12b552/sl2b552border.dgn	PLOT DATE: 06-SEP-2016
PROJECT LEADER: C.W. CARLSON	DRAWN BY: M. LONGSTREET
DESIGNED BY: M. LONGSTREET	CHECKED BY: D. PETERSON
EPSC FINAL LAYOUT 3	SHEET 37 OF 39



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

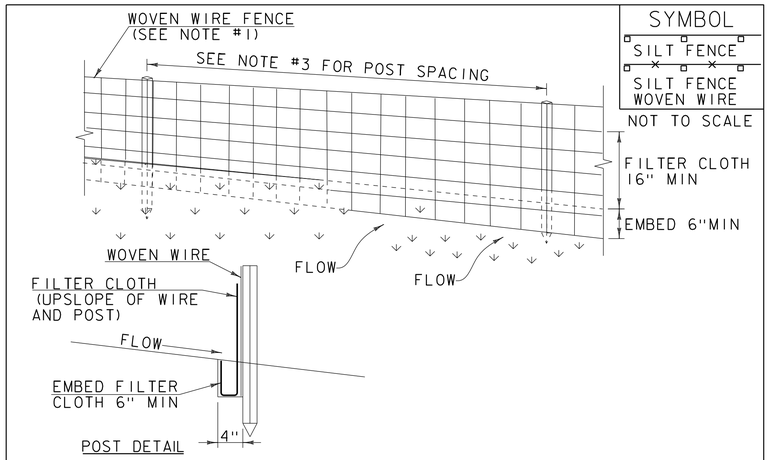
1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' 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



SYMBOL

SILT FENCE

SILT FENCE WOVEN WIRE

NOT TO SCALE

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, MIRAFI100X, 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

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
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

	LBS/AC					
WEIGHT	BROADCAST	HYDROSEED	NAME	LATIN NAME	GERM	PURITY
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

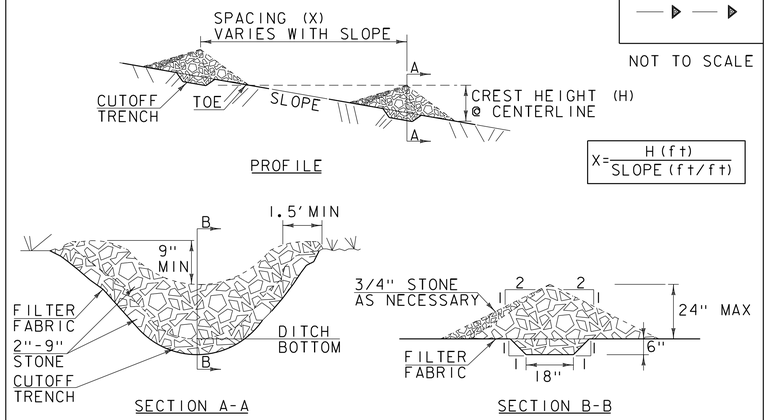
PROJECT NAME: WEYBRIDGE-NEW HAVEN
PROJECT NUMBER: BF 032-1(19)

FILE NAME: s12b552xs.dgn
PROJECT LEADER: C.W. CARLSON
DESIGNED BY: D. PETERSON
EPSC DETAILS 1

PLOT DATE: 06-SEP-2016
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 38 OF 39

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OFTHE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA 2 ACRES.

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

CHECK DAM

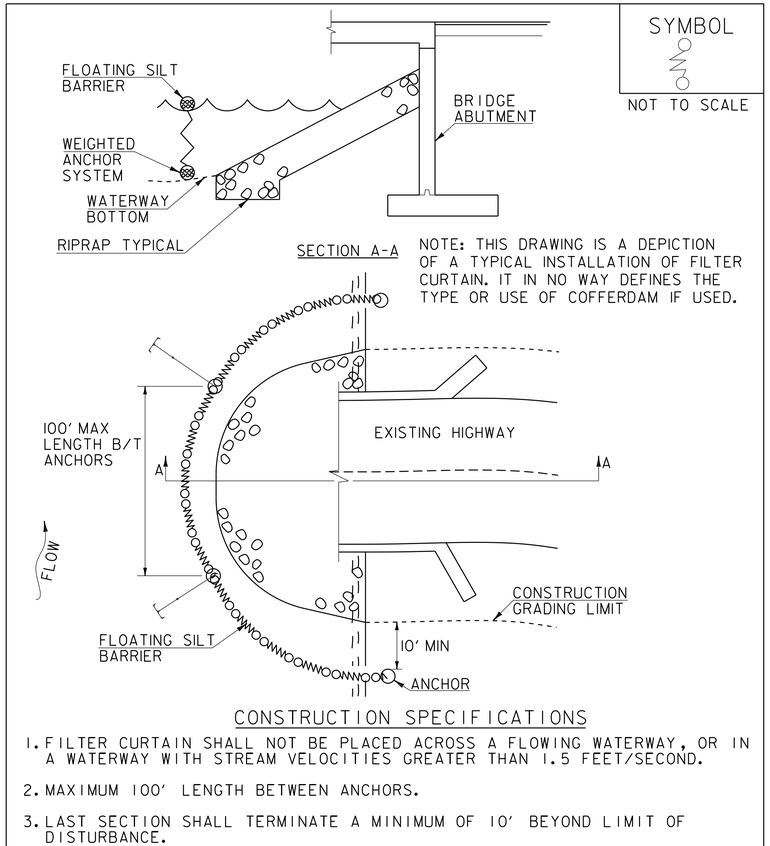
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I(PAY ITEM 653.25)

REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF

SYMBOL

NOT TO SCALE



NOTE: THIS DRAWING IS A DEPICTION OF A TYPICAL INSTALLATION OF FILTER CURTAIN. IT IN NO WAY DEFINES THE TYPE OR USE OF COFFERDAM IF USED.

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.

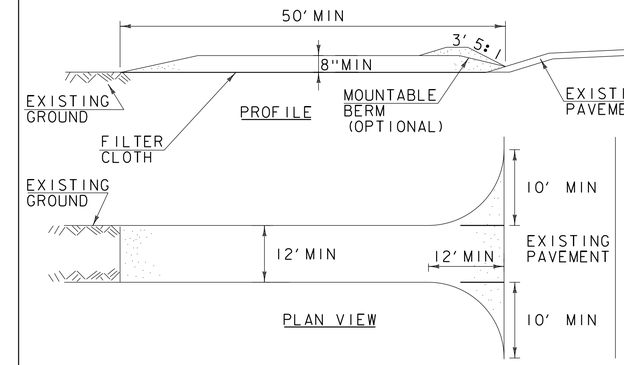
FILTER CURTAIN

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 FOR GEOTEXTILE FOR FILTER CURTAIN (PAY ITEM 649.61).

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

SYMBOL

NOT TO SCALE



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
PROJECT NUMBER: BF 032-1(19)

FILE NAME: s12b552xs.dgn
PROJECT LEADER: C.W. CARLSON
DESIGNED BY: D. PETERSON
EPSC DETAILS 2

PLOT DATE: 06-SEP-2016
DRAWN BY: M. LONGSTREET
CHECKED BY: D. PETERSON
SHEET 39 OF 39