

REVIEWER NOTES:

1. TRAFFIC TO BE MAINTAINED ON A ONE WAY TEMPORARY BRIDGE.
2. UTILITIES WILL NEED TO BE RELOCATED FOR BOTH THE TEMPORARY AND PERMANENT BRIDGE PROJECTS.
3. ROW EASEMENT WILL NEED TO BE ACQUIRED.
4. PRELIMINARY ESTIMATE NOT INCLUDED.

STATE OF VERMONT AGENCY OF TRANSPORTATION



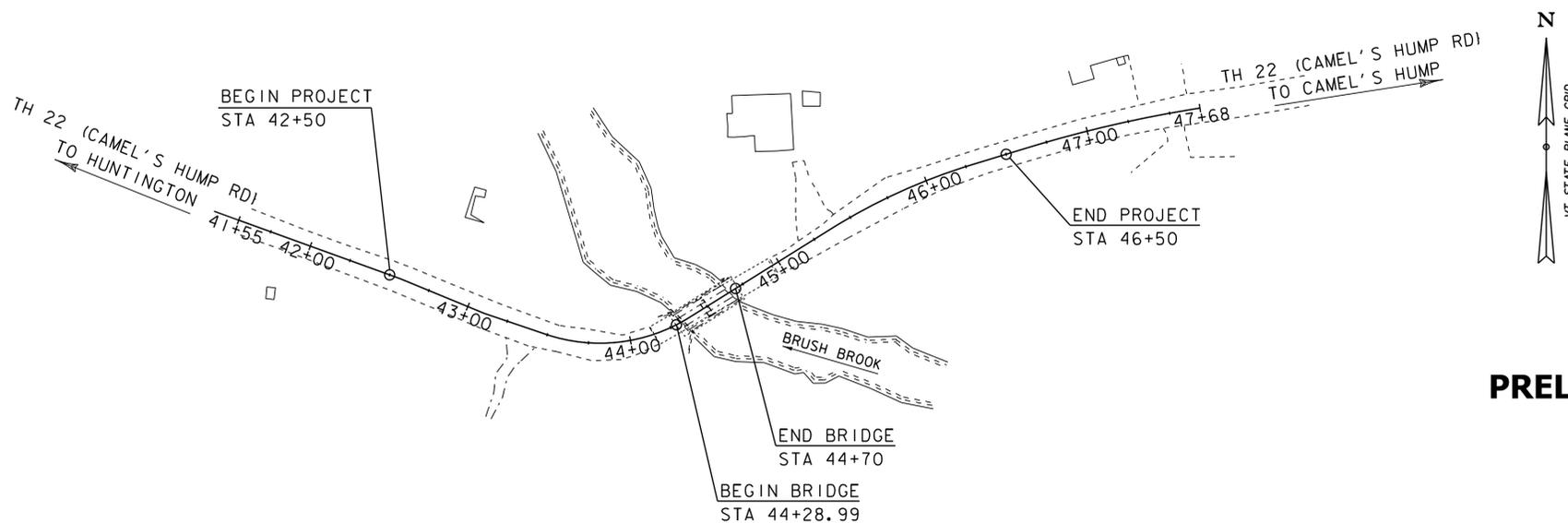
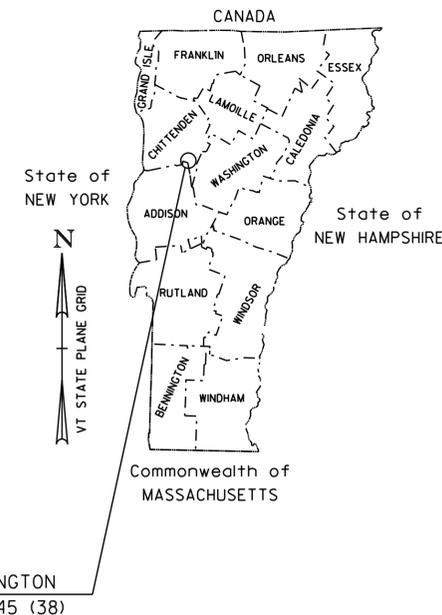
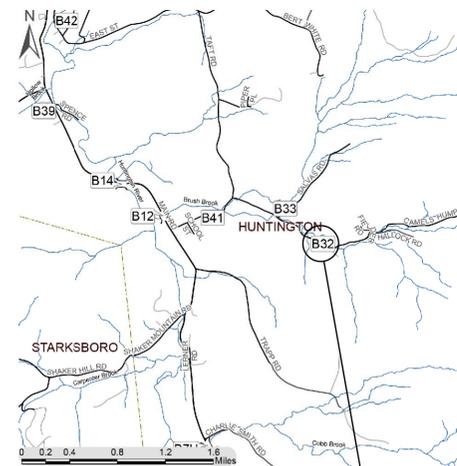
PROPOSED IMPROVEMENT BRIDGE PROJECT

TOWN OF HUNTINGTON
COUNTY OF CHITTENDEN

ROUTE NO : TOWN HIGHWAY 22, (CAMELS HUMP ROAD) , CLASS 3, LOCAL BRIDGE NO : 32
PROJECT LOCATION: - 0.9 MILES EAST OF JUNCTION WITH TOWN HIGHWAY 4 (TAFT ROAD) (CLASS 3)

PROJECT DESCRIPTION: REPLACEMENT OF EXISTING BRIDGE WITH A NEW BRIDGE ON EXISTING ALIGNMENT, WITH RELATED CHANNEL AND ROADWAY WORK.

LENGTH OF STRUCTURE: 41.11 FEET
LENGTH OF ROADWAY: 368.89 FEET
LENGTH OF PROJECT: 400.00 FEET



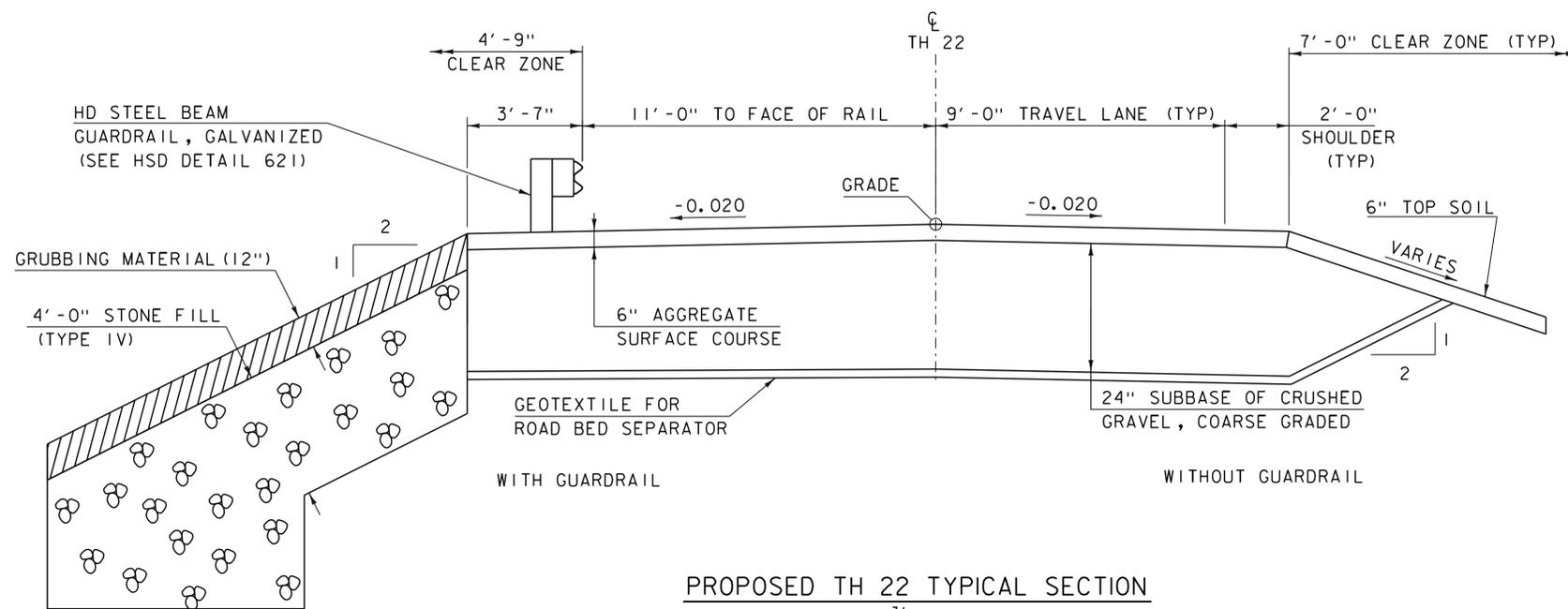
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS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

QUALITY ASSURANCE PROGRAM : LEVEL 2	
SURVEYED BY :	R. GILMAN
SURVEYED DATE :	12/29/2016
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (92)

SCALE 1" = 50'-0"
50 0 50

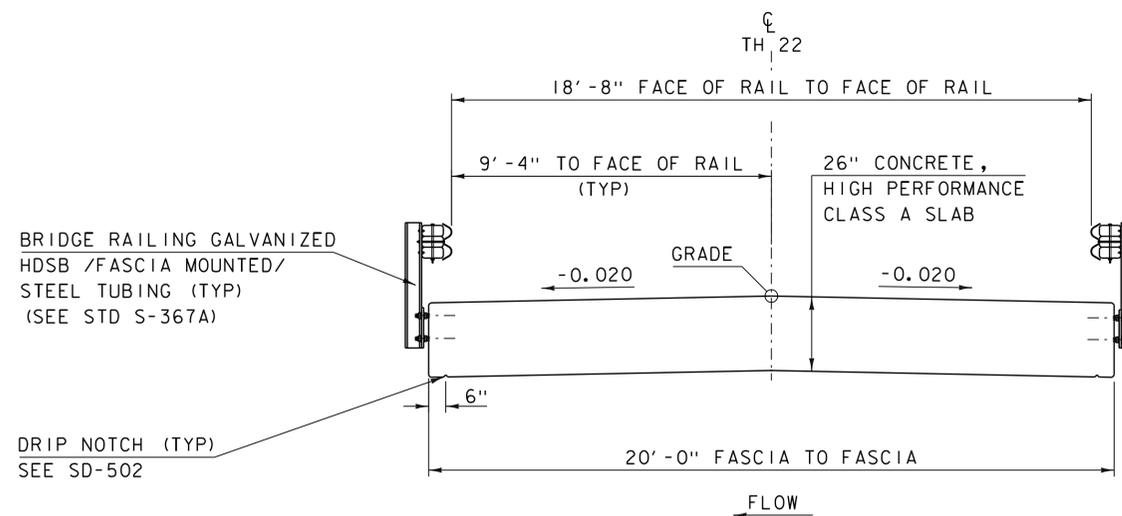
PRELIMINARY PLANS INHOUSE REVIEW
03-JUN-2020

DIRECTOR OF PROJECT DELIVERY	
APPROVED _____	DATE _____
PROJECT MANAGER : ROB YOUNG P.E.	
PROJECT NAME :	HUNTINGTON
PROJECT NUMBER :	BO 1445 (38)
SHEET 1 OF 22 SHEETS	



PROPOSED TH 22 TYPICAL SECTION

SCALE 3/8" = 1'-0"



PROPOSED BRIDGE TYPICAL SECTION

SCALE 3/8" = 1'-0"

MATERIAL TOLERANCES

(IF USED ON PROJECT)

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

PROJECT NAME: HUNTINGTON

PROJECT NUMBER: BO 1445(38)

FILE NAME: sl2j630typ.dgn

PROJECT LEADER: R. YOUNG

DESIGNED BY: C. FRENCH

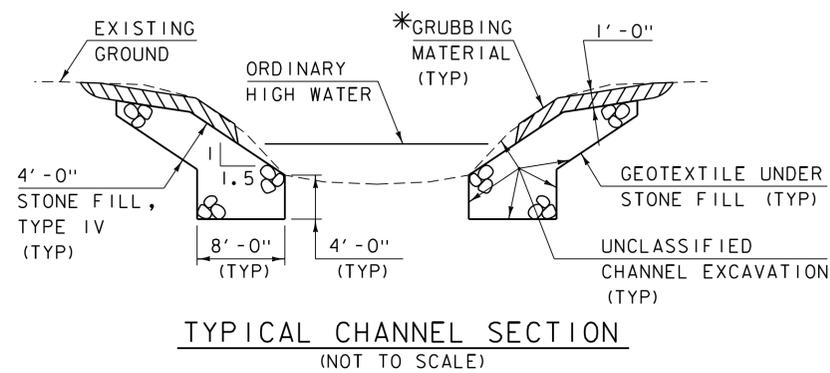
TYPICAL SECTIONS

PLOT DATE: 03-JUN-2020

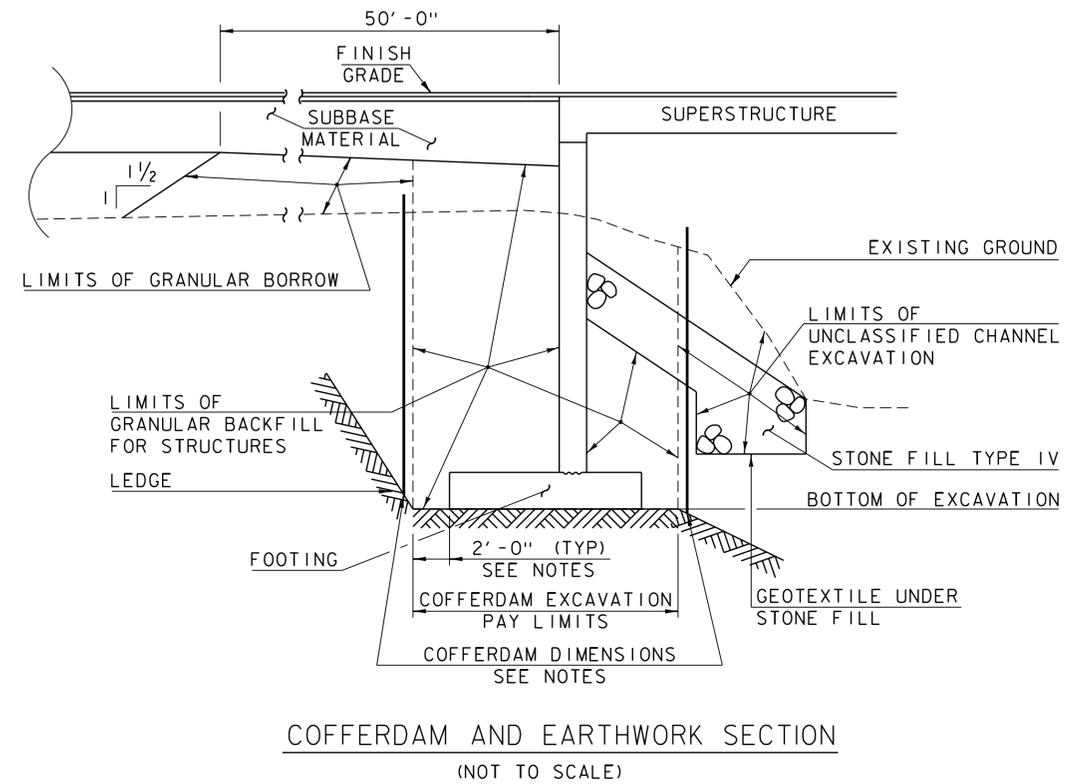
DRAWN BY: C. FRENCH

CHECKED BY: C. MOONEY

SHEET 3 OF 28



* WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.



COFFERDAM NOTES

1. COFFERDAM DIMENSIONS TO BE DETERMINED BY THE CONTRACTOR.
2. THE PAY LIMITS OF "COFFERDAM EXCAVATION, EARTH" AND "COFFERDAM EXCAVATION, ROCK" SHALL BE 2'-0" OUTSIDE THE PERIMETER OF THE FOOTING AND FROM BOTTOM OF EXCAVATION UP TO THE EXISTING GROUND OR BOTTOM OF SUBBASE, WHICHEVER IS LOWER.
3. IF A COFFERDAM IS CONSTRUCTED WHICH IS LARGER THAN THE INDICATED COFFERDAM EXCAVATION PAY LIMITS, PAYMENT FOR ALL UNCLASSIFIED CHANNEL EXCAVATION, INCLUDING THAT PORTION WHICH IS INSIDE THE COFFERDAM BUT OUTSIDE THE COFFERDAM PAY LIMITS, WILL BE MADE AT THE CONTRACT UNIT PRICE FOR UNCLASSIFIED CHANNEL EXCAVATION. NO MEASUREMENT AND PAYMENT WILL BE MADE FOR COFFERDAM EXCAVATION AND GRANULAR BACKFILL FOR STRUCTURES OUTSIDE THE PAY LIMITS DEFINED IN NOTE 2.

PROJECT NAME: HUNTINGTON
PROJECT NUMBER: BO 1445(38)

FILE NAME: sl2j630+typ.dgn
PROJECT LEADER: R. YOUNG
DESIGNED BY: C. FRENCH
TYPICAL SECTIONS

PLOT DATE: 03-JUN-2020
DRAWN BY: C. FRENCH
CHECKED BY: C. MOONEY
SHEET 4 OF 28

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

COMMON TOPOGRAPHIC POINT SYMBOLS

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

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

PROPOSED GEOMETRY CODES

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

UTILITY SYMBOLGY

UNDERGROUND UTILITIES

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

ABOVE GROUND UTILITIES (AERIAL)

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

PROJECT CONSTRUCTION SYMBOLGY

PROJECT DESIGN & LAYOUT SYMBOLGY

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

PROJECT CONSTRUCTION FEATURES

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

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—————	TOWN 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
— — — — —	SILT FENCE
— X — X — X — X —	SILT FENCE WOVEN WIRE
— — — — —	CHECK DAM
▣	DISTURBED AREAS REQUIRING RE-VEGETATION
⊞	EROSION MATTING

SEE EPSC DETAIL SHEETS FOR ADDITIONAL 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: HUNTINGTON

PROJECT NUMBER: BO 1445 (38)

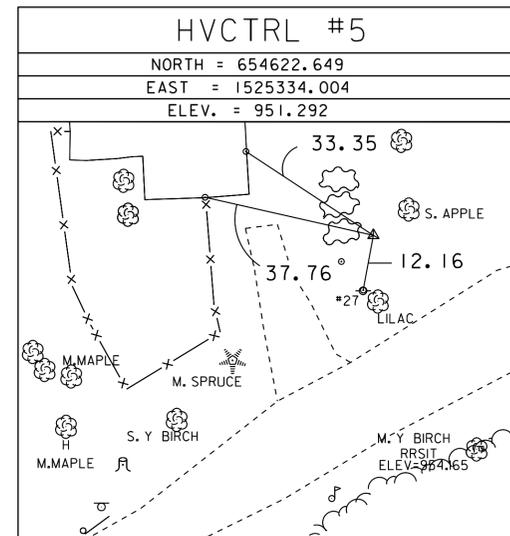
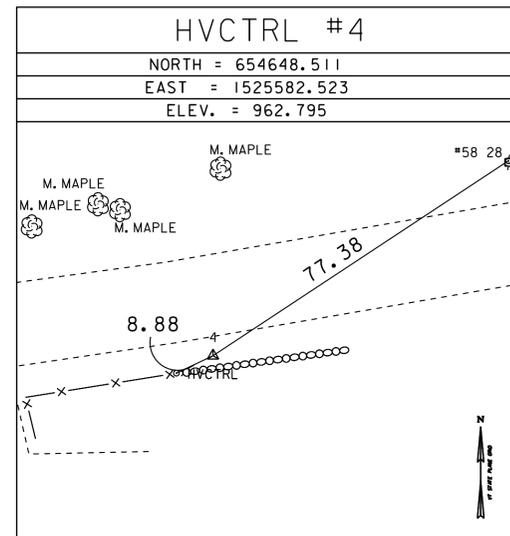
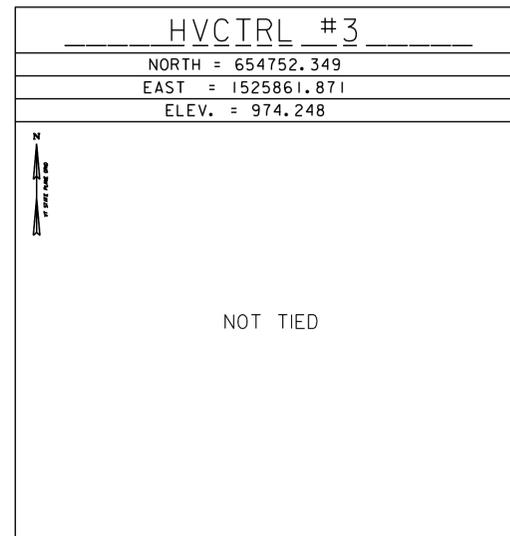
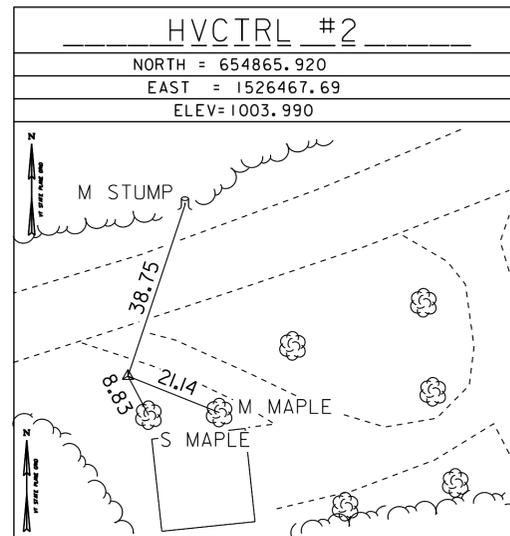
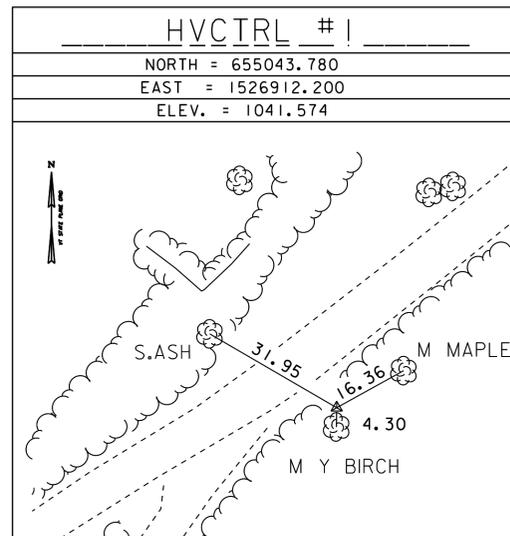
FILE NAME: sl2J630legend.dgn PLOT DATE: 03-JUN-2020  
 PROJECT LEADER: R. YOUNG DRAWN BY: C. FRENCH  
 DESIGNED BY: C. MOONEY CHECKED BY:  
 CONVENTIONAL SYMBOLGY LEGEND SHEET 5 OF 28

GPS CONTROL POINTS

GENERAL LOCATION - THE STATION IS LOCATED IN HUNTINGTON CENTER, VT, 2.1 MI (3.4 KM) SOUTH OF HUNTINGTON VILLAGE, 7.4 MI (11.9 KM) SOUTH OF RICHMOND, AND 10.8 MI (17.4 KM) WEST OF WATERBURY. TO REACH FROM THE JUNCTION OF THE MAIN ROAD (TH1) AND CAMELS HUMP ROAD (TH4), PROCEED NORTHWESTERLY ALONG TH1 FOR 0.1 MI (0.2 KM) TO A BRIDGE OVER BRUSH BROOK AND THE MARK SET IN THE SOUTHEAST CORNER OF THE BRIDGE. ALSO 2.45 MI (3.94 KM) SOUTHEASTERLY ALONG TH1 FROM ITS INTERSECTION WITH EAST STREET IN HUNTINGTON VILLAGE TO THE MARK ON THE LEFT. IT IS LOCATED 64 FT (19.5 M) NORTHEAST OF POLE 86/122, 17 FT (5.2 M) EAST OF THE CENTERLINE OF TH1, AND 1.5 FT (0.5 M) EAST OF A STEEL GUARDRAIL. OWNERSHIP IS THE TOWN OF HUNTINGTON.

GENERAL LOCATION - THE STATION IS LOCATED IN HUNTINGTON CENTER, VT, 1.7 MI (2.7 KM) SOUTH OF HUNTINGTON VILLAGE, 7.1 MI (11.4 KM) SOUTH OF RICHMOND, AND 11 MI (17.7 KM) WEST OF WATERBURY. TO REACH FROM THE JUNCTION OF THE MAIN ROAD (TH1) AND CAMELS HUMP ROAD (TH4), PROCEED 0.6 MI (1.0 KM) TO A BRIDGE OVER THE HUNTINGTON RIVER AND THE MARK ON THE RIGHT. THE MARK IS A STATE OF VERMONT DISK SET IN THE NORTHEAST BRIDGE ABUTMENT. ALSO 2.45 MI (3.94 KM) SOUTHEASTERLY ALONG TH1 FROM ITS INTERSECTION WITH EAST STREET IN IT IS LOCATED 15.5 FT (4.7 M) NORTH OF THE CENTERLINE OF TH1 AND 2 FT (0.6 M) NORTH OF A BOX BEAM GUARDRAIL. OWNERSHIP TOWN OF HUNTINGTON.

TRAVERSE TIES



* MAIN TRAVERSE COMPLETED 12/22/1993 BY R. GILMAN [93J030] SECONDARY TRAVERSE COMPLETED 3/20/2012 BY R. GILMAN P.C. & P. WINTERS THIRD TRAVERSE RUN BY C. CYR AND R. GILMAN 12/29/2016

ALIGNMENT TIES

CONTROL LINE DATA - TH22_prop_emergency_temp											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
38	S 70°08'00.00" E	50.96'	654574.54	1525020.117		75+00.00					
	S 67°38'00.00" E	44.69'	654555.3678	1525073.177	75+50.96		75+61.87	2°30'00.00"	250.00'	10.91'	5.46'
	S 71°17'00.00" E	45.39'	654534.7248	1525123.343	76+01.10		76+20.22	3°39'00.00"	-300.00'	19.11'	9.56'
	N 64°45'38.17" E	118.03'	654509.7983	1525196.915	76+56.05		77+17.42	43°57'21.83"	-80.00'	61.37'	32.29'
	N 54°21'24.42" E	38.47'	654567.889	1525320.143	78+03.16		78+39.48	10°24'13.75"	-200.00'	36.32'	18.21'
	N 73°05'00.00" E	100.06'	654614.3279	1525384.905	78+59.74		79+41.45	18°43'35.58"	250.00'	81.71'	41.22'
59			654643.4445	1525480.639		80+00.29					

CONTROL LINE DATA - TH22_prop											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
38	S 70°08'00.00" E	50.96'	654574.54	1525020.117		42+00.00					
	S 67°38'00.00" E	44.69'	654555.3678	1525073.177	42+50.96		42+61.87	2°30'00.00"	250.00'	10.91'	5.46'
	S 71°17'00.00" E	38.41'	654534.7248	1525123.343	43+01.10		43+20.22	3°39'00.00"	-300.00'	19.11'	9.56'
	N 58°03'00.00" E	146.62'	654507.2072	1525204.563	43+49.07		44+37.50	50°40'00.00"	-100.00'	88.43'	47.34'
	N 73°05'00.00" E	117.57'	654609.2341	1525368.157	45+36.78		46+28.61	15°02'00.00"	350.00'	91.83'	46.18'
59			654643.4445	1525480.639		47+00.00					

CONTROL LINE DATA - Br32channel											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
12	N 46°52'27.67" W	200.00'	654470.5139	1525328.324		50+00.00					
13			654607.234	1525182.353		52+00.00					

CONTROL LINE DATA - Driveway											
POINT ID	BEARING	DISTANCE (FEET)	NORTHING (Y)	EASTING (X)	PC	PI	PT	DELTA	R	L	T
104	N 17°59'58.47" W	54.59'	654572.6862	1525326.374		10+00.00					
105			654624.6044	1525309.505		10+54.59					

NORTH =
EAST =
ELEV. =

DATUM

VERTICAL NAVD_88

HORIZONTAL NAD_83 (92)

ADJUSTMENT COMPASS

PROJECT NAME: HUNTINGTON

PROJECT NUMBER: B0 1445(38)

FILE NAME: sl2j63tie.DGN

PROJECT LEADER: R. YOUNG

DESIGNED BY: C. FRENCH

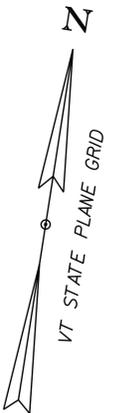
TIE SHEET

PLOT DATE: 03-JUN-2020

DRAWN BY: H.MCGOWAN

CHECKED BY: C. MOONEY

SHEET 6 OF 28



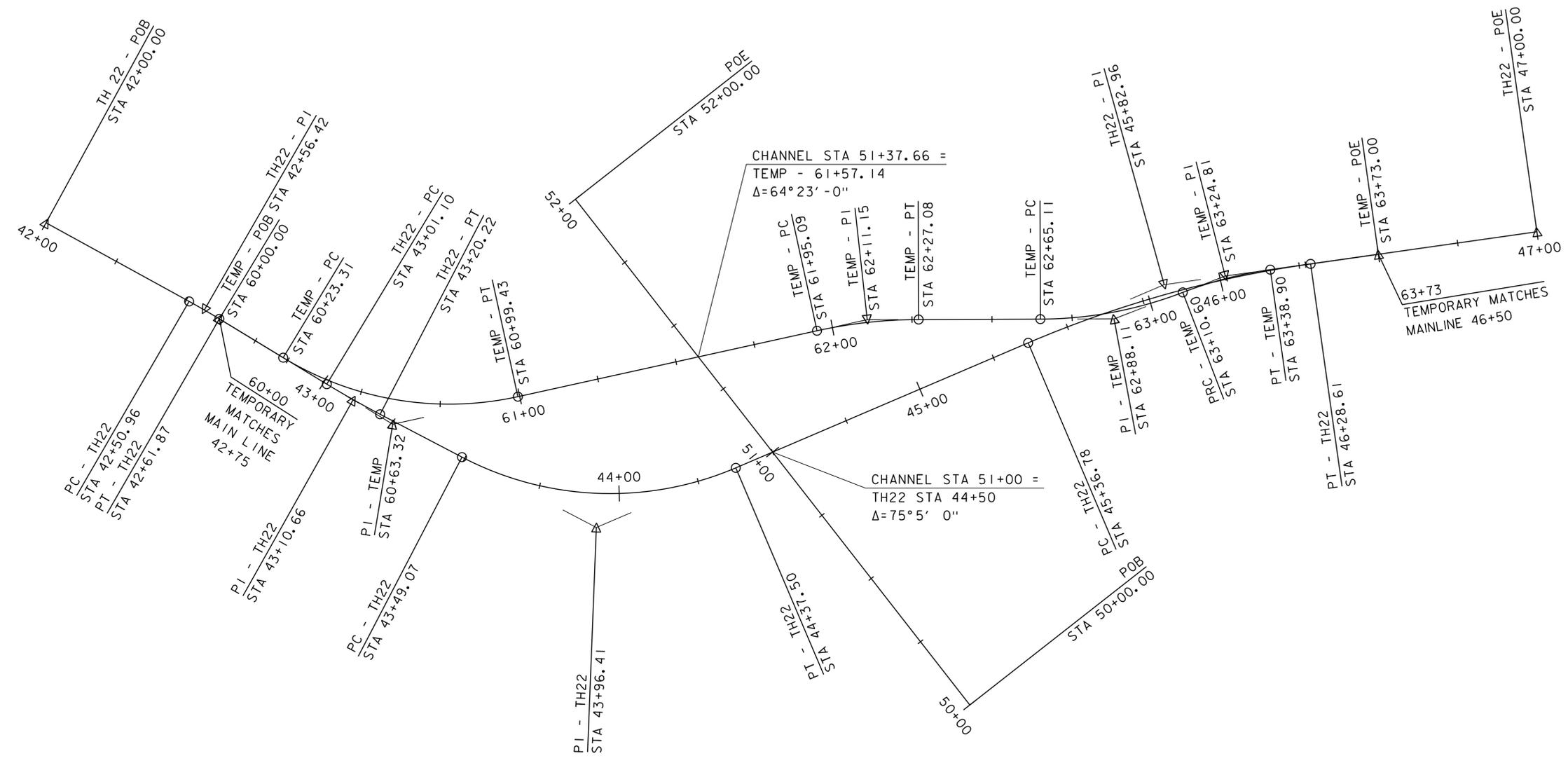
TEMP - CURVE (1)	TEMP - CURVE (2)	TEMP - CURVE (3)	TEMP - CURVE (4)
DELTA = 43°37'05"	DELTA = 12°13'04"	DELTA = 20°51'12"	DELTA = 12°58'13"
D = 57°17'45"	D = 38°11'50"	D = 45°50'12"	D = 45°50'12"
R = 100.00'	R = 150.00'	R = 125.00'	R = 125.00'
T = 40.02'	T = 16.05'	T = 23.00'	T = 14.21'
L = 76.13'	L = 31.99'	L = 45.50'	L = 28.30'
E = 7.71'	E = 0.86'	E = 2.10'	E = 0.81'

TH 22 - CURVE (1)  
 DELTA = 2°30'00"  
 D = 22°55'06"  
 R = 250.00'  
 T = 5.46'  
 L = 10.91'  
 E = 0.06'

TH 22 - CURVE (2)  
 DELTA = 3°39'00"  
 D = 19°05'55"  
 R = 300.00'  
 T = 9.56'  
 L = 19.11'  
 E = 0.15'

TH 22 - CURVE (3)  
 DELTA = 50°40'00"  
 D = 57°17'45"  
 R = 100.00'  
 T = 47.34'  
 L = 88.43'  
 E = 10.64'

TH 22 - CURVE (4)  
 DELTA = 15°02'00"  
 D = 16°22'13"  
 R = 350.00'  
 T = 46.18'  
 L = 91.83'  
 E = 3.03'



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

PROJECT NAME: HUNTINGTON	PLOT DATE: 03-JUN-2020
PROJECT NUMBER: BO 1445(38)	DRAWN BY: C. FRENCH
FILE NAME: sl2j630align.dgn	CHECKED BY: C. MOONEY
PROJECT LEADER: R. YOUNG	SHEET 7 OF 28
DESIGNED BY: C. FRENCH	
ALIGNMENT SHEET	

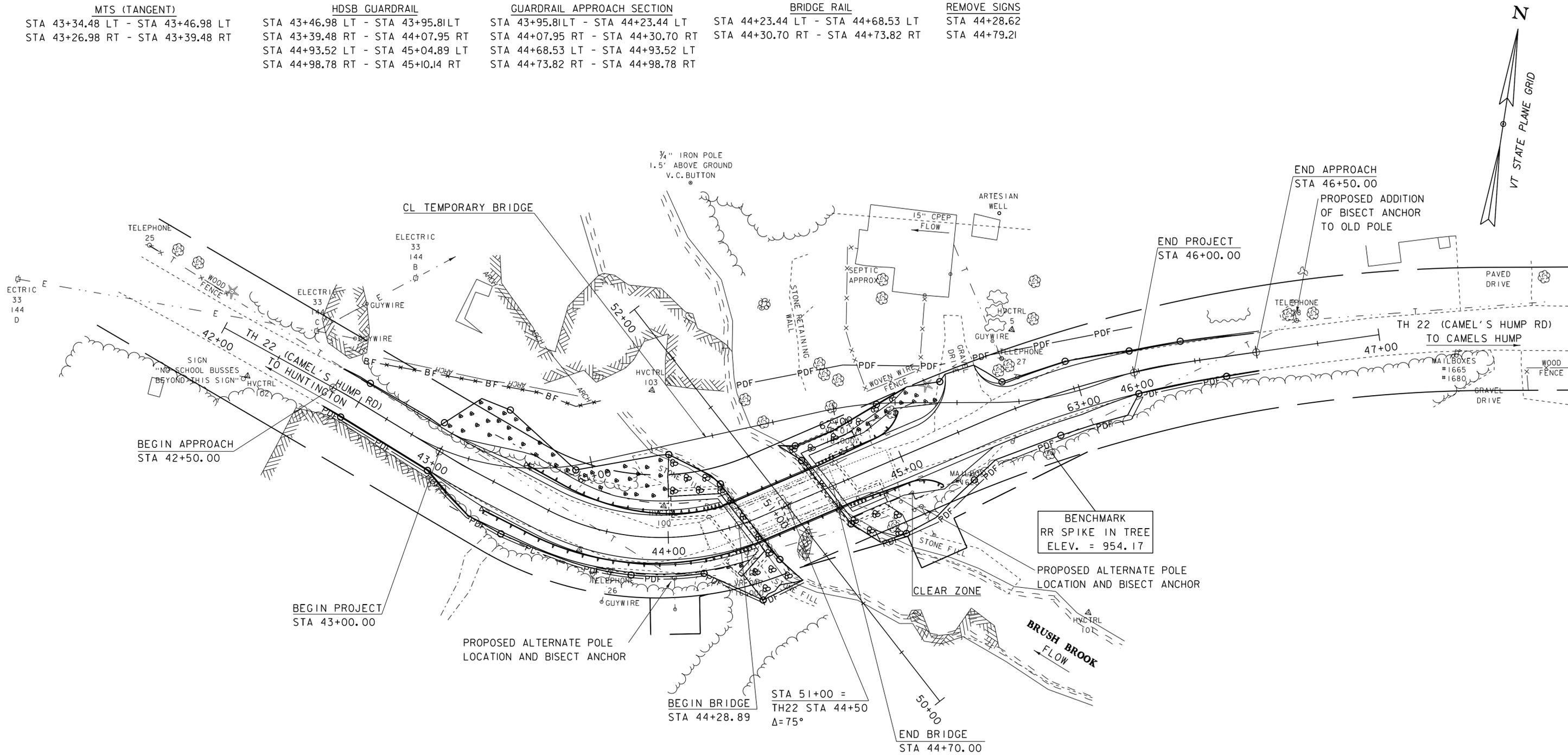
MTS (TANGENT)  
 STA 43+34.48 LT - STA 43+46.98 LT  
 STA 43+26.98 RT - STA 43+39.48 RT

HDSB GUARDRAIL  
 STA 43+46.98 LT - STA 43+95.81 LT  
 STA 43+39.48 RT - STA 44+07.95 RT  
 STA 44+93.52 LT - STA 45+04.89 LT  
 STA 44+98.78 RT - STA 45+10.14 RT

GUARDRAIL APPROACH SECTION  
 STA 43+95.81 LT - STA 44+23.44 LT  
 STA 44+07.95 RT - STA 44+30.70 RT  
 STA 44+68.53 LT - STA 44+93.52 LT  
 STA 44+73.82 RT - STA 44+98.78 RT

BRIDGE RAIL  
 STA 44+23.44 LT - STA 44+68.53 LT  
 STA 44+30.70 RT - STA 44+73.82 RT

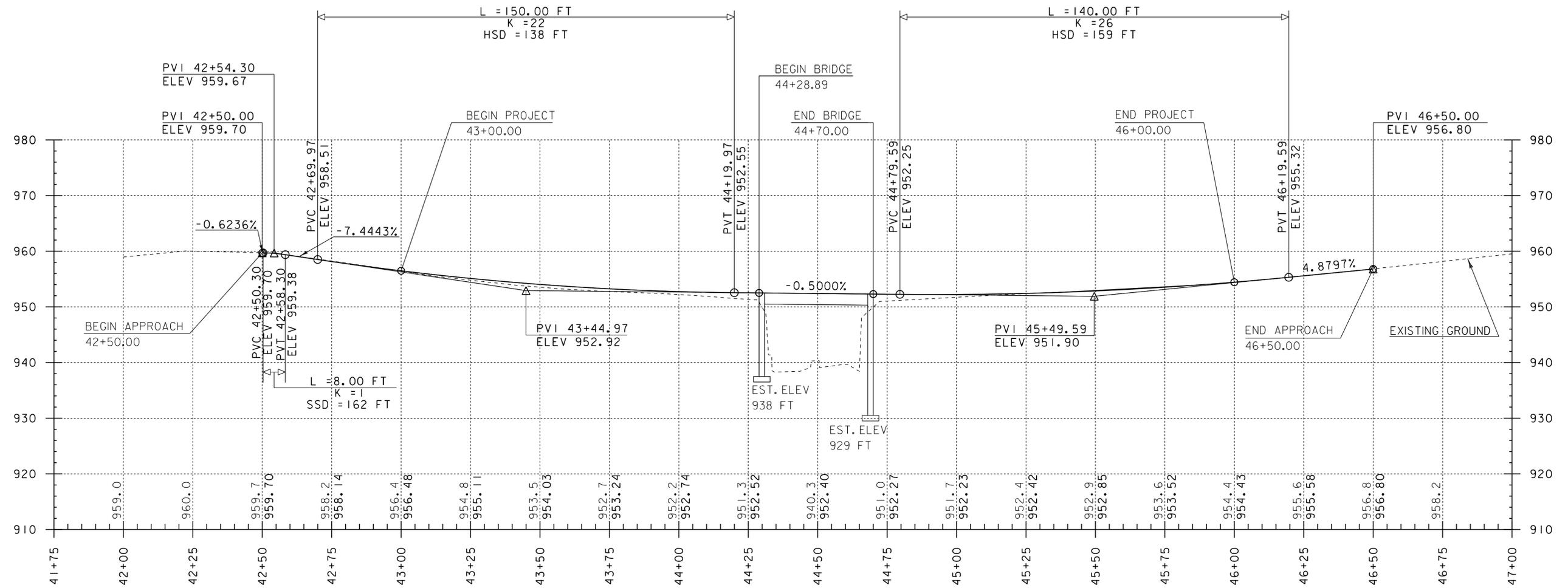
REMOVE SIGNS  
 STA 44+28.62  
 STA 44+79.21



EXISTING BRIDGE INFORMATION  
 SINGLE SPAN, BUILT 1925  
 ROLLED BEAM WITH TIMBER DECK  
 45' STRUCTURE LENGTH  
 16'-3" FASCIA TO FASCIA WIDTH

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

PROJECT NAME: HUNTINGTON	PLOT DATE: 03-JUN-2020
PROJECT NUMBER: BO 1445(38)	DRAWN BY: C. FRENCH
FILE NAME: sl2j630nu1.dgn	CHECKED BY: C. MOONEY
PROJECT LEADER: R. YOUNG	SHEET 8 OF 28
DESIGNED BY: C. FRENCH	
UTILITY LAYOUT SHEET	

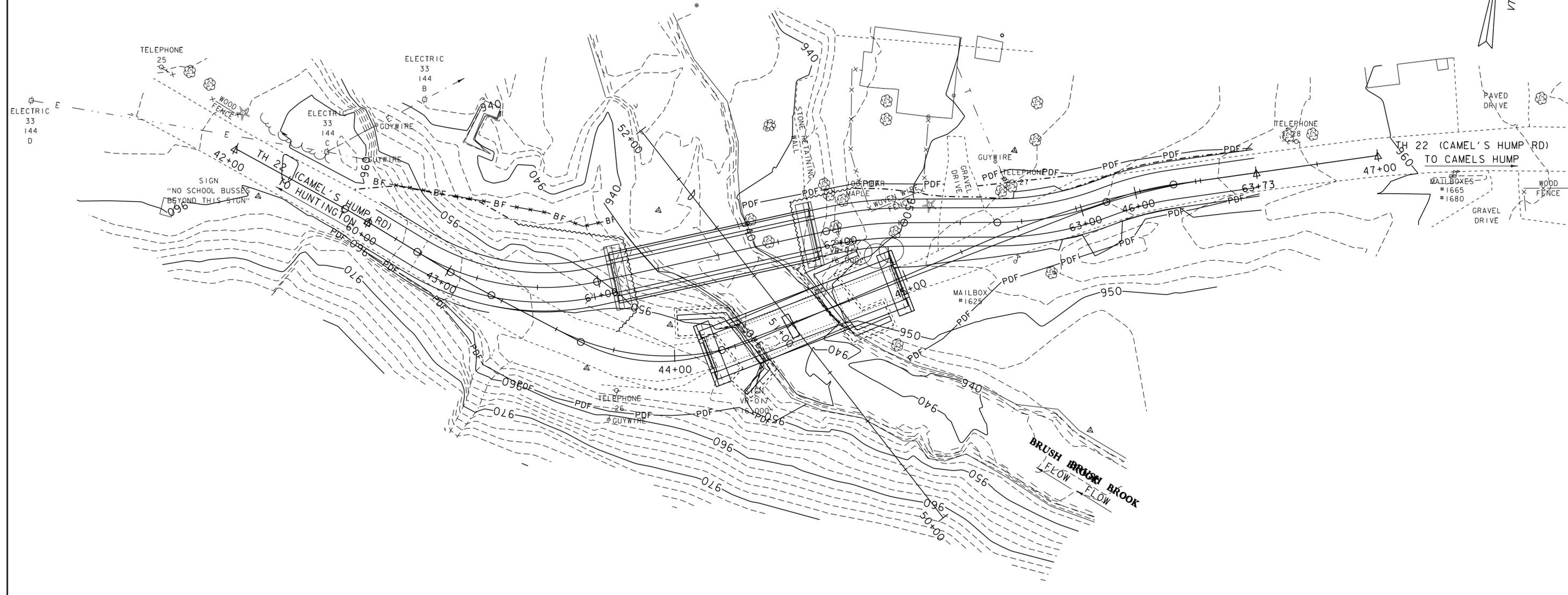
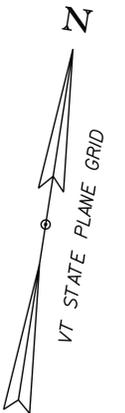


### TH-22 PROFILE

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

NOTE:  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING  
 GROUND ALONG  $\text{\textcircled{C}}$   
 GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH  
 GRADE ALONG  $\text{\textcircled{C}}$

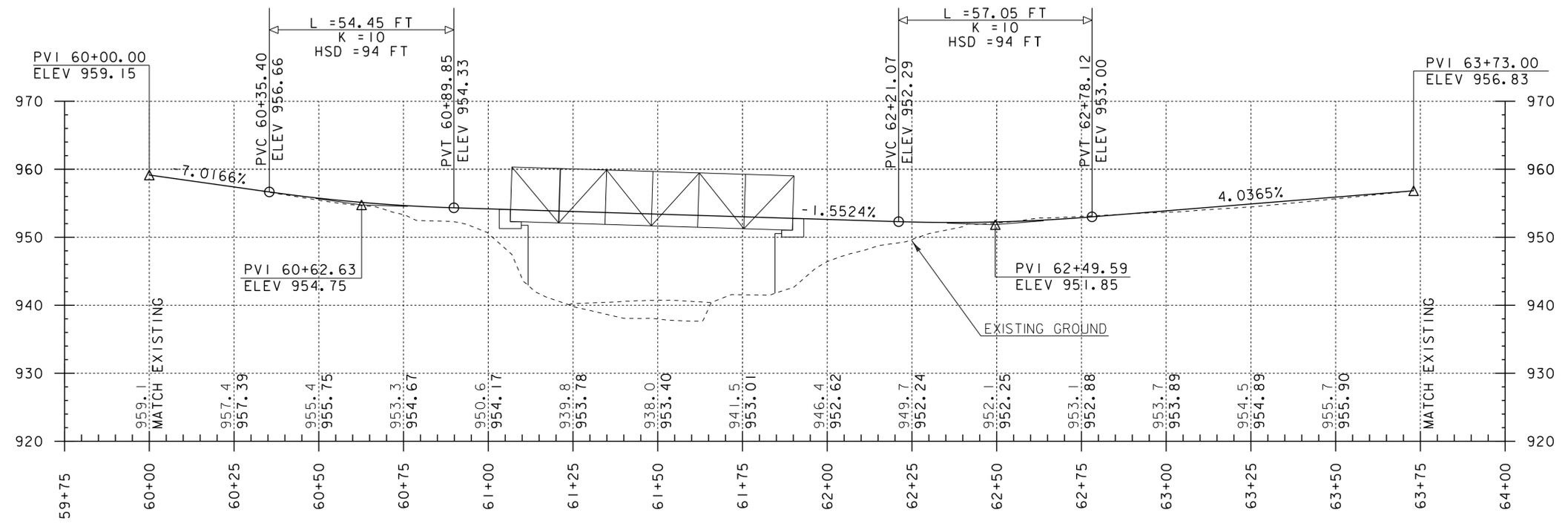
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PROJECT NUMBER: BO 1445(38)	
FILE NAME: sl2j630bdr.dgn	PLOT DATE: 03-JUN-2020
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. MOONEY
PROFILE SHEET	SHEET 9 OF 28



# TEMPORARY BRIDGE LAYOUT

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

PROJECT NAME: HUNTINGTON	
PROJECT NUMBER: BO 1445(38)	
FILE NAME: sl2j630Temporary.dgn	PLOT DATE: 03-JUN-2020
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. MOONEY
TEMPORARY BRIDGE LAYOUT	SHEET 10 OF 28



## TH-22 TEMPORARY PROFILE

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

**NOTE:**  
 GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG  $\mathcal{C}$   
 GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG  $\mathcal{C}$

PROJECT NAME: HUNTINGTON	
PROJECT NUMBER: BO 1445(38)	
FILE NAME: sl2j630Temporary.dgn	PLOT DATE: 03-JUN-2020
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. MOONEY
TEMPORARY PROFILE	SHEET 11 OF 28

**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**

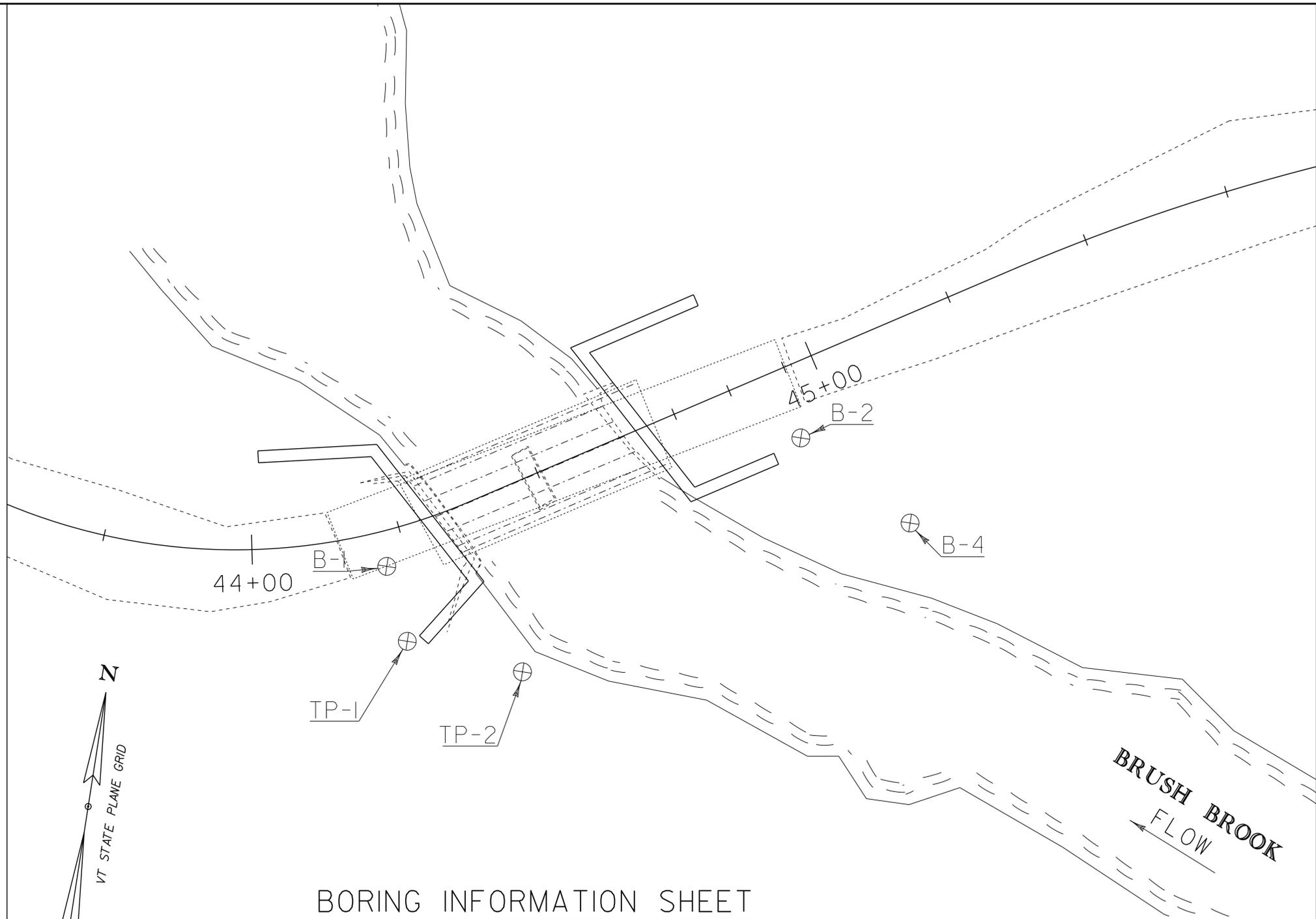
DENSITY (GRANULAR SOILS)		CONSISTENCY (COHESIVE SOILS)	
N	DESCRIPTIVE TERM	N	DESCRIPTIVE TERM
<5	Very Loose	<2	Very Soft
5-10	Loose	2-4	Soft
11-24	Med. Dense	5-8	Med. Stiff
25-50	Dense	9-15	Stiff
>50	Very Dense	16-30	Very Stiff
		31-60	Hard
		>60	Very Hard

**COMMONLY USED SYMBOLS**

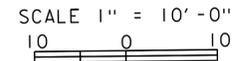
▽	Water Elevation
⊕	Standard Penetration Boring
⊕	Auger Boring
⊙	Rod Sounding
S	Sample
N	Standard Penetration Test Blow Count Per Foot For: 2" O. D. Sampler 1 3/8" I. D. Sampler Hammer Weight Of 140 Lbs. Hammer Fall Of 30"
VS	Field Vane Shear Test
US	Undisturbed Soil Sample
B	Blast
DC	Diamond Core
MD	Mud Drill
WA	Wash Ahead
HSA	Hollow Stem Auger
AX	Core Size 1 1/8"
BX	Core Size 1 7/8"
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
gry	Gray	wh	White
gn	Green	yel	Yellow
lt	Light	mltc	Multicolored
or	Orange		



**BORING INFORMATION SHEET**



**BORING CHART**

HOLE NO.	SURV. STATION	BEDROCK ELEV.	OFFSET	NORTHING	EASTING
B-1	44+24	938.0 FT	8.5 R	1525232.77	654519.47
B-2	44+93	934.0 FT	12.0 R	1525258.01	654505.53
B-4	45+90	929.0 FT	36.5 R	1525318.49	654540.18
TP-1	44+24	943.6 FT	21.8 R	1525238.11	654507.60
TP-2	44+38	942.0 FT	33.4 R	1525258.01	654505.53

**DEFINITIONS (AASHTO)**

<b>BEDROCK (LEDGE)</b> - Rock in its native location of indefinite thickness.	<b>VARVED</b> - Alternate layers of silt and clay.
<b>BOULDER</b> - A rock fragment with an average dimension > 12 inches.	<b>HARDPAN</b> - Extremely dense soil, cemented layer, not softened when wet.
<b>COBBLE</b> - Rock fragments with an average dimension between 3 and 12 inches.	<b>MUCK</b> - Soft organic soil (containing > 10% organic material).
<b>GRAVEL</b> - Rounded particles of rock < 3" and > 0.0787" (#10 sieve).	<b>MOISTURE CONTENT</b> - Weight of water divided by dry weight of soil.
<b>SAND</b> - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve).	<b>FLOWING SAND</b> - Granular soil so saturated (loose) that it flows into drill casing during extraction of wash rod.
<b>SLT</b> - Soil < 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried.	<b>STRIKE</b> - Angle from magnetic north to line of intersection of bed with a horizontal plane.
<b>CLAY</b> - Fine grained soil, exhibits plasticity when moist and considerable strength when air-dried.	<b>DIP</b> - Inclination of bed with a horizontal plane.

**GENERAL NOTES**

- The subsurface explorations shown herein were made between 11/12/2013 and 12/06/2013 by Terracon (consultant).
- Soil and rock classifications, properties and descriptions are based on engineering interpretation from available subsurface information by the Agency and may not necessarily reflect actual variations in subsurface conditions that may be encountered between individual boring or sample locations.
- Observed water levels and/or conditions indicated are as recorded at the time of exploration and may vary according to the prevailing rainfall, methods of exploration and other factors.
- Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor access to the same data available to the Agency. The subsurface information is presented in good faith and is not intended as a substitute for personal investigation, independent interpretation, independent analysis or judgment by the Contractor.
- Pictorial structure details shown on the boring plan layout or soils profile are for illustrative purposes only and may not accurately portray final contract details.
- Terminology used on boring logs to describe the hardness, degree of weathering, and spacing of fractures, joints and other discontinuities in the bedrock is defined in the AASHTO Manual on Subsurface Investigations, 1988.
- Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

PROJECT NAME: HUNTINGTON

PROJECT NUMBER: BO 1445(38)

FILE NAME: sl2J630bor.dgn  
PROJECT LEADER: R. YOUNG  
DESIGNED BY: C. FRENCH  
BORING INFORMATION SHEET

PLOT DATE: 03-JUN-2020  
DRAWN BY: C. FRENCH  
CHECKED BY: C. MOONEY  
SHEET 12 OF 28



STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: B-4
		Huntington BO 1445(38)		Page No.: 1 of 1
				Pin No.: 12j630
				Checked By: ASP
Boring Crew: <u>New Hampshire Boring, Derry, NH, CBR</u> Date Started: <u>11/13/13</u> Date Finished: <u>11/13/13</u> VTSPG NAD83: <u>N 1525318.49 ft E 654540.18 ft</u> Station: <u>45+90</u> Offset: <u>36.5 R</u> Ground Elevation: <u>948.0 ft</u>		Casing: <u>WB</u> Sampler: <u>SS</u> I.D.: <u>4.25</u> <u>1.38 in</u> Hammer Wt: <u>N.A.</u> <u>N.A.</u> Hammer Fall: <u>N.A.</u> <u>N.A.</u> Hammer/Rod Type: <u>Manual</u> Rig: <u>CME 45C SKID</u> CE = <u>1.3</u>	Groundwater Observations	
		Date	Depth (ft)	Notes
		11/13/13	7.0	ACR
		11/14/13	7.0	16 hrs

Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Run (Dip dep.) Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		Rec. = 1.2 ft, 0.0 ft - 0.33 ft, 4-inches topsoil		2-6-8-4 (14)				
		A-4, SaSiGr, brn, Moist						
		A-1-b, SaGrSi, brn, Rec. = 0.9 ft		3-6-37-22 (43)				
5		A-1-a, GrSaSi, gry-brn, Rec. = 0.5 ft		27-27-19-100 (46)				
		A-1-b, GrSaSi, gry-brn, Rec. = 0.3 ft		8-17-17-34 (34)				
		A-1-b, GrSaSi, brn, Rec. = 1.3 ft		23-35-40-100 (75)				
10		A-1-a, GrSaSi, gry-brn, Rec. = 0.5 ft		22-24-33-45 (57)				
		A-4, SiSaGr, gry-brn, Rec. = 0.4 ft		50 (50+)				
		A-4, SiSaGr, brn, Rec. = 0.4 ft		35-50-100 (150+)				
15		A-4, SiSaGr, gry-brn, Rec. = 0.2 ft, Soil classification for this sample based on visual observation		48-50 (50+)				
		A-1-a, GrSaSi, brn, Rec. = 0.2 ft, Probable weathered bedrock		50 (50+)				
20		19.0 ft - 24.0 ft, Gray, greenish gray muscovite-quartz SCHIST, moderately hard, unweathered	1 57 (68.4)					
				Top of Bedrock @ 19.0 ft				
25		24.0 ft - 29.0 ft, Gray, greenish gray muscovite-quartz SCHIST, moderately hard, slight weathering along foliation	2 46 (41.3)					
30		Hole stopped @ 29.0 ft						
Remarks: Elevations are approximate.								

Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual.  
 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. CE is an estimated value.  
 3. Water level readings have been made at times and under conditions stated.  
 4. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.  
 5. Ground surface elevations indicated on the boring logs were estimated based on the grading plan provided by VADT.



PROJECT NAME: HUNTINGTON	
PROJECT NUMBER: BO 1445(38)	
FILE NAME: sl2j630bor.dgn	PLOT DATE: 03-JUN-2020
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. MOONEY
BORING LOG SHEET 2	SHEET 14 OF 28

 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: TP-1			
		Huntington BO 1445(38)		Page No.: 1 of 1			
				Pin No.: 12j630			
				Checked By: ASP			
Boring Crew: <u>New Hampshire Boring, Derry, NH, RJF</u> Date Started: <u>12/06/13</u> Date Finished: <u>12/06/13</u> VTSPG NAD83: <u>N 1525238.11 ft E 654507.60 ft</u> Station: <u>44+24</u> Offset: <u>21.8 R</u> Ground Elevation: <u>949.0 ft</u>		Casing Sampler Type: _____ I.D.: _____ Hammer Wt: <u>N.A.</u> <u>N.A.</u> Hammer Fall: <u>N.A.</u> <u>N.A.</u> Hammer/Rod Type: _____ Rig: <u>KX71-3 Excavator</u> <u>CE =</u>	Groundwater Observations Date: <u>12/06/13</u> Depth (ft): _____ Notes: <u>None observed</u>				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		0.0 ft - 0.8 ft, Topsoil/roots/organics, moist to wet A-4, SiSaGr, brn, trace roots, soil classification for this sample based on visual observation					
		A-4, SiSaGr, olive-brn, trace weathered rock and occasional boulders ~12", soil classification for this sample based on visual observation					
5		5.3 ft, Apparent weathered rock Hole stopped @ 5.4 ft					
		Top of Bedrock @ 5.4 ft					
		Remarks: Test pit excavated by New Hampshire Boring. Excavator: Kubota KX71-3 Operator: Mike  Although water was present within excavation, there did not appear to be a static GWL encountered. Water present in excavation appeared to be from surface run-off.  Ground surface elevation at top of test pit 3.5 feet below bridge deck based on visual observation.					
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. CE is an estimated value. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. 4. Ground surface elevations indicated on the boring logs were estimated based on the grading plan provided by VDOT.							

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**Terracon**

 STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		BORING LOG		Boring No.: TP-2			
		Huntington BO 1445(38)		Page No.: 1 of 1			
				Pin No.: 12j630			
				Checked By: ASP			
Boring Crew: <u>New Hampshire Boring, Derry, NH, CBR</u> Date Started: <u>11/15/13</u> Date Finished: <u>11/15/13</u> VTSPG NAD83: <u>N 1525258.01 ft E 654505.53 ft</u> Station: <u>44+38</u> Offset: <u>33.4 R</u> Ground Elevation: <u>946.0 ft</u>		Casing Sampler Type: _____ I.D.: _____ Hammer Wt: <u>N.A.</u> <u>N.A.</u> Hammer Fall: <u>N.A.</u> <u>N.A.</u> Hammer/Rod Type: _____ Rig: <u>Hand dug</u> <u>CE =</u>	Groundwater Observations Date: <u>11/15/13</u> Depth (ft): _____ Notes: <u>None observed</u>				
Depth (ft)	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
		0.0 ft - 0.5 ft, 6-inches topsoil, organics, moist, brown A-4, SiSaGr, brn					
		A-4, SiSaGr, gray, Moist, weathered bedrock					
5		Hole stopped @ 4.0 ft					
		Top of Bedrock @ 4.0 ft					
		Remarks: Hand dug by New Hampshire Boring. Metal rod probed throughout approximate 10-foot radius around TP-2, rod hit probable bedrock at approximately 4 feet. Elevations are approximate.					
Notes: 1. Stratification lines represent approximate boundary between material types. Transition may be gradual. 2. N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. CE is an estimated value. 3. Water level readings have been made at times and under conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the time measurements were made. 4. Ground surface elevations indicated on the boring logs were estimated based on the grading plan provided by VDOT.							

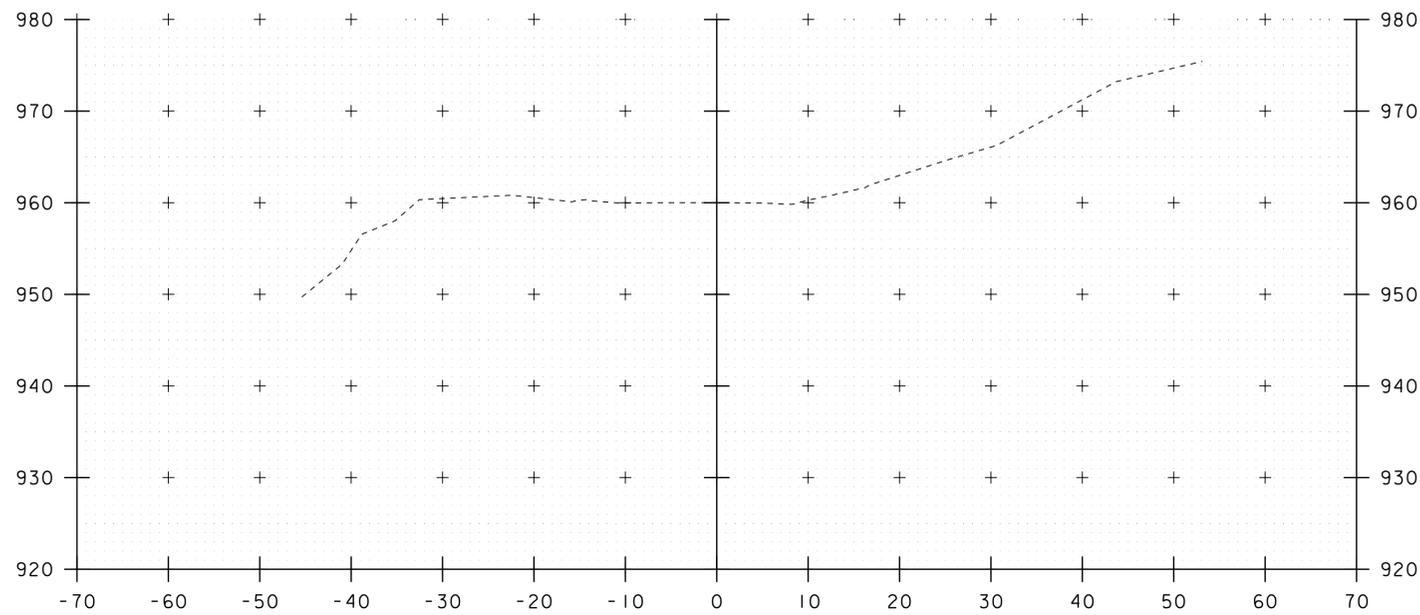
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**Terracon**

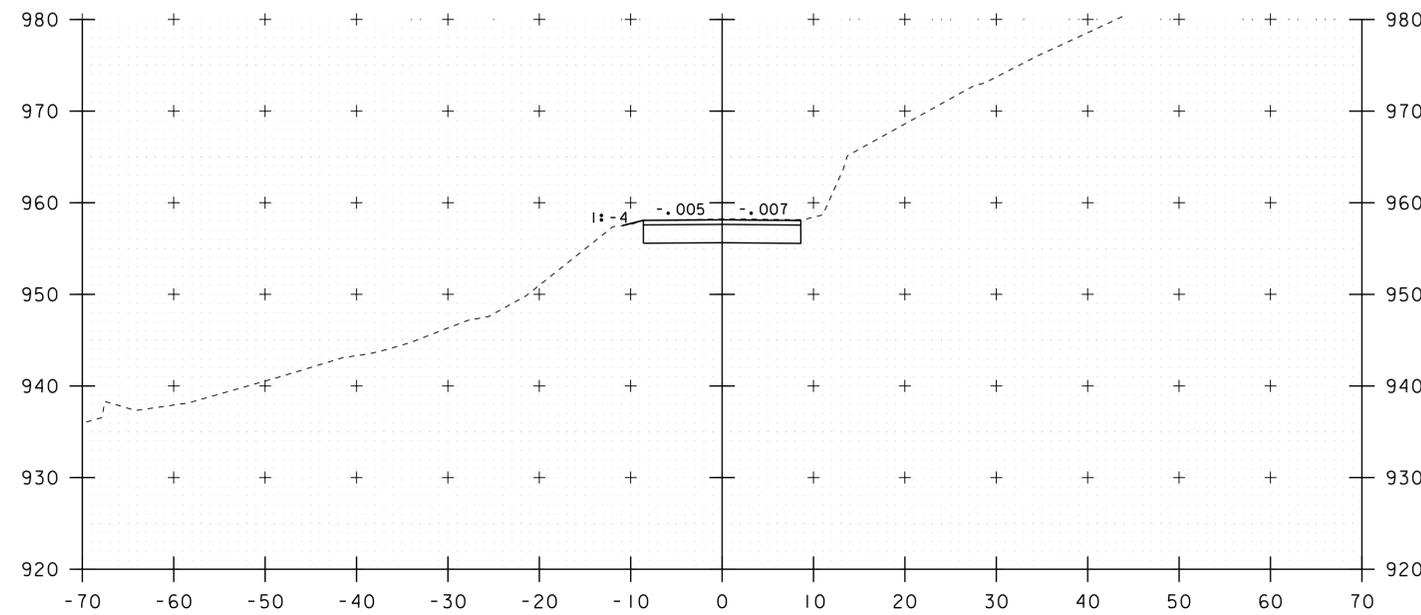
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 PROJECT NUMBER: BO 1445(38)

FILE NAME: si2j630bor.dgn  
 PROJECT LEADER: R. YOUNG  
 DESIGNED BY: C. FRENCH  
 BORING LOG SHEET 3

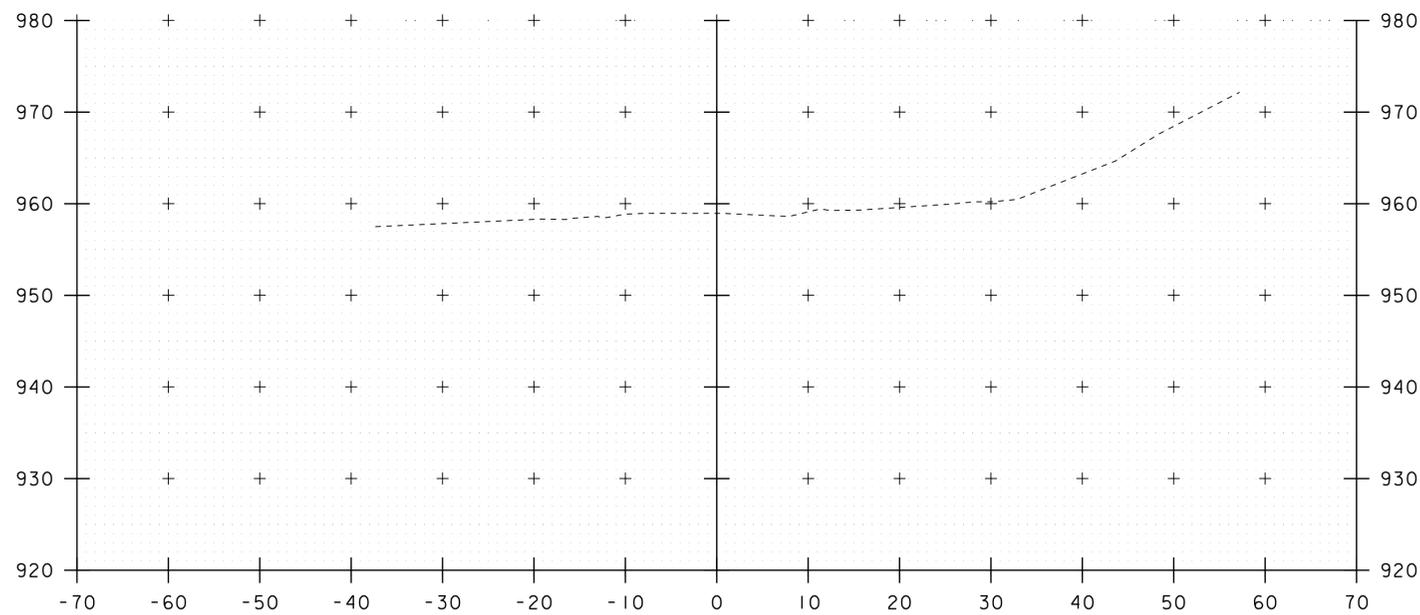
PLOT DATE: 03-JUN-2020  
 DRAWN BY: C. FRENCH  
 CHECKED BY: C. MOONEY  
 SHEET 15 OF 28



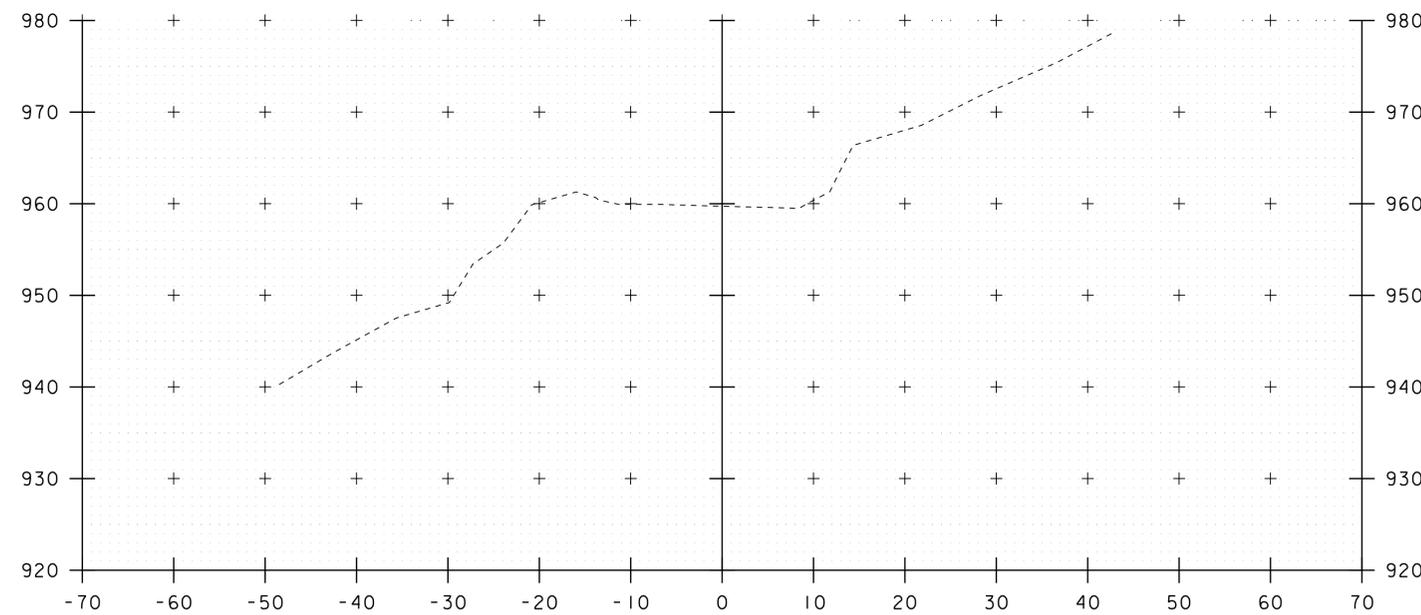
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42+75



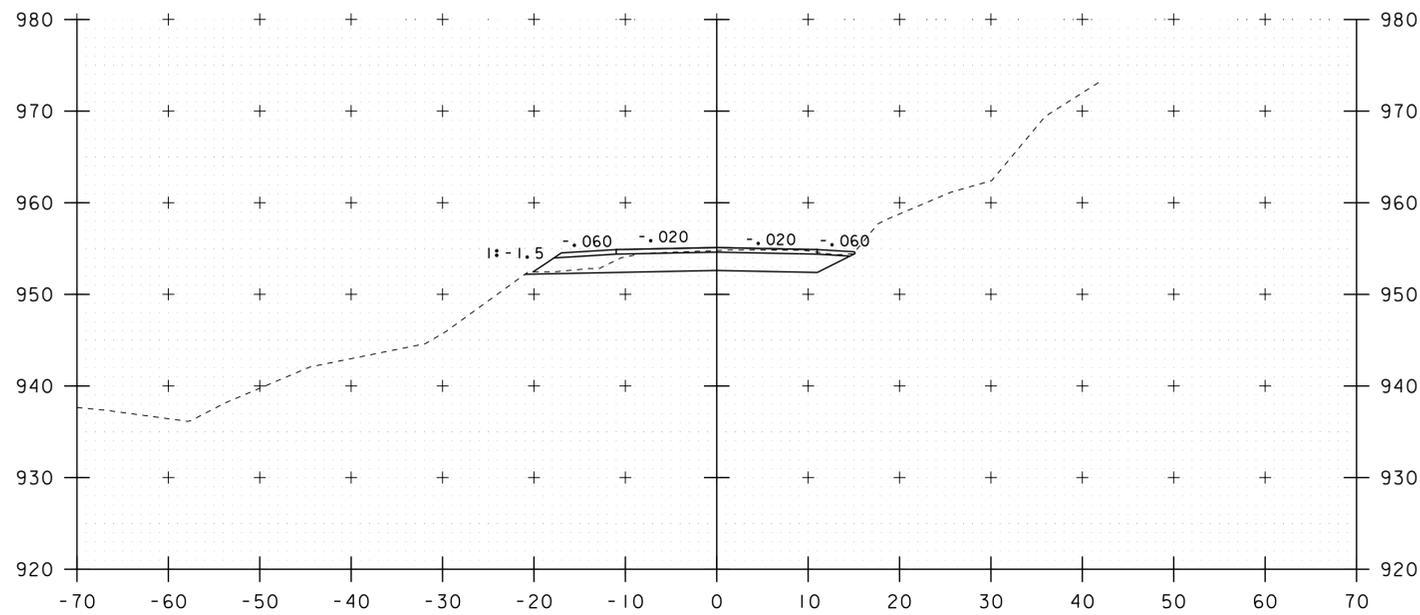
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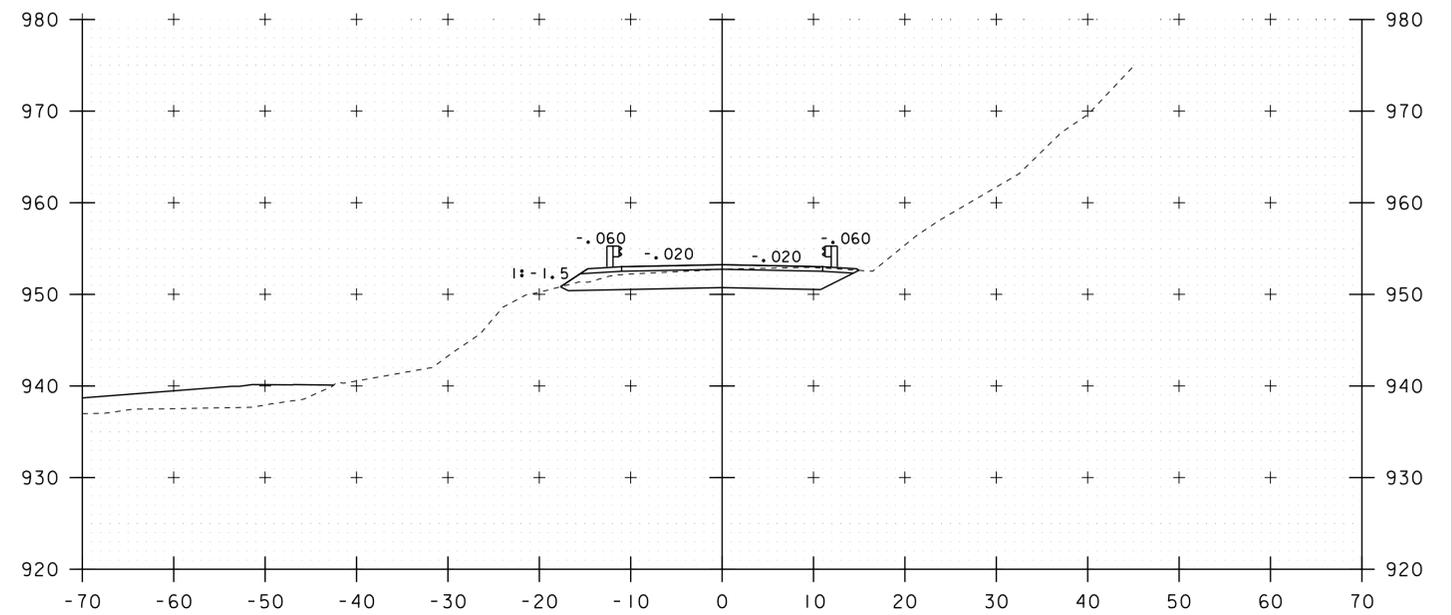
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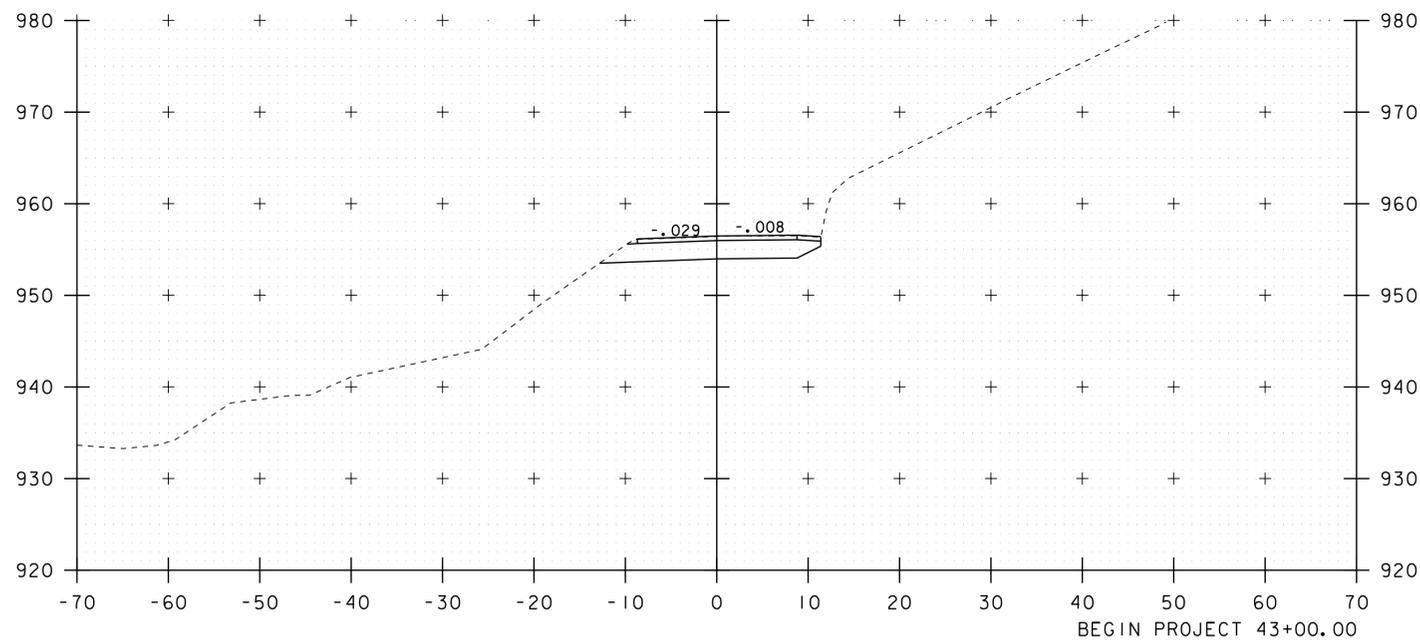
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PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. MOONEY
CROSS SECTIONS 1	SHEET 16 OF 28



43+25

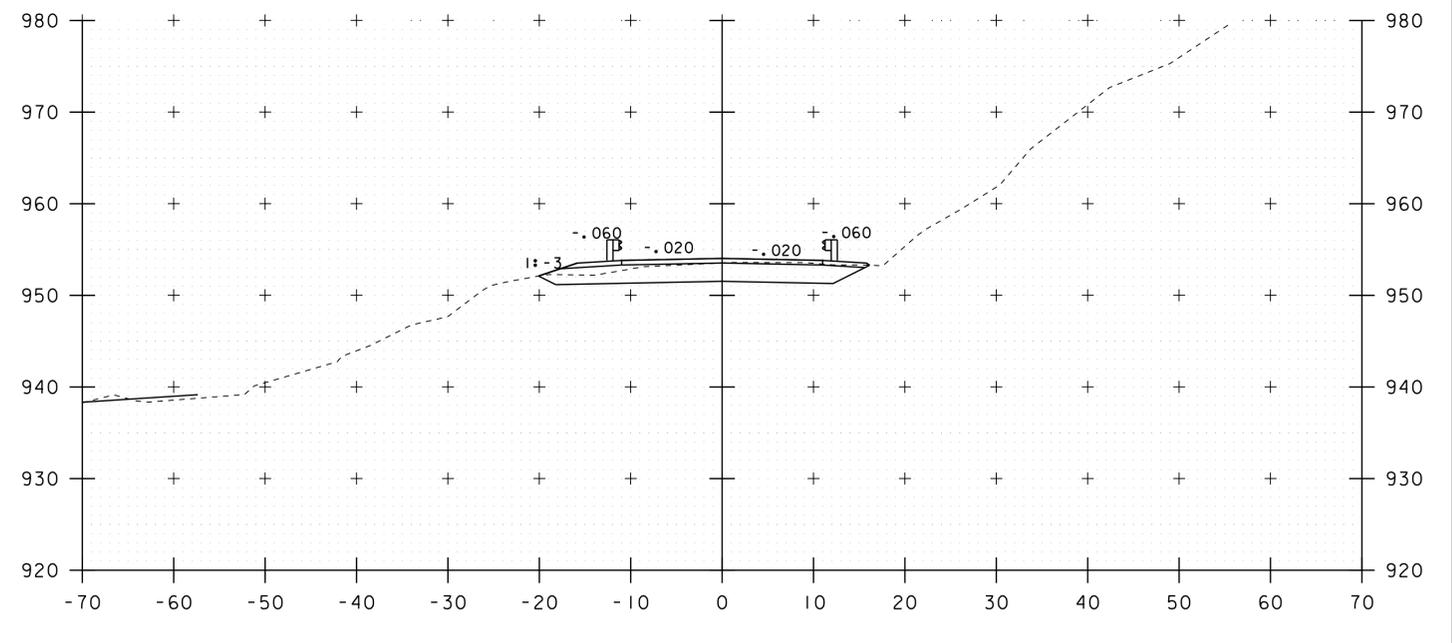


43+75



43+00

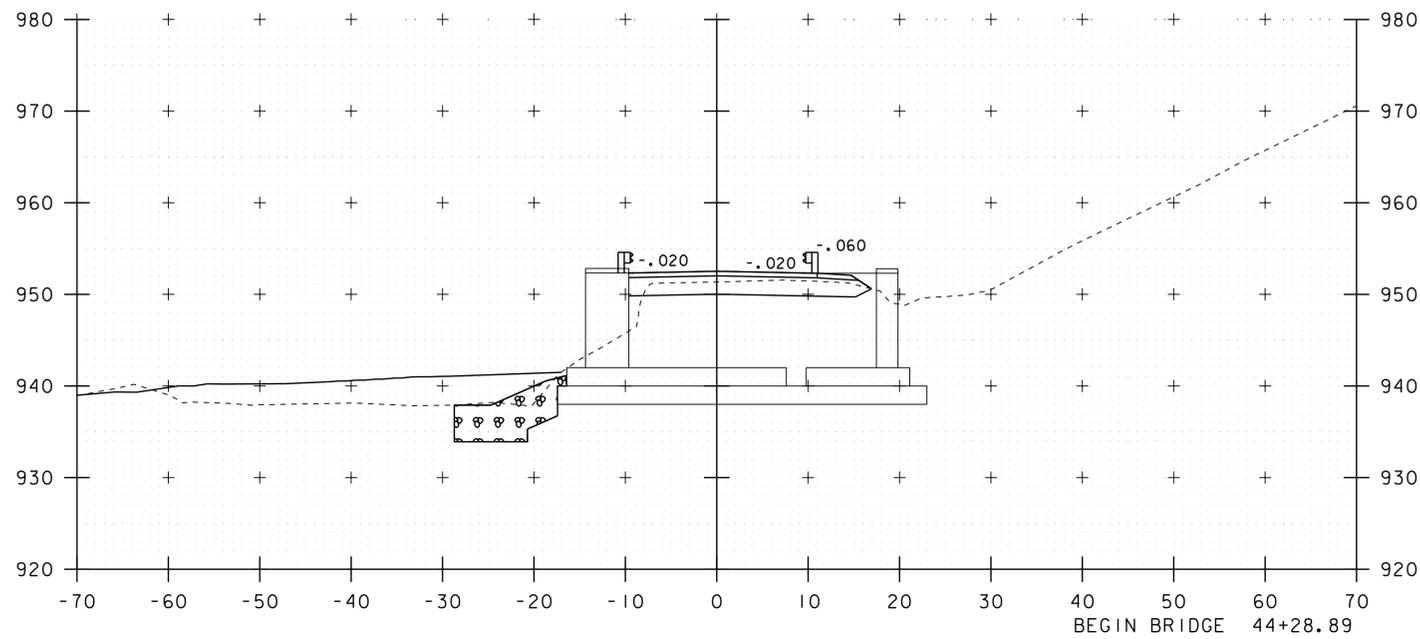
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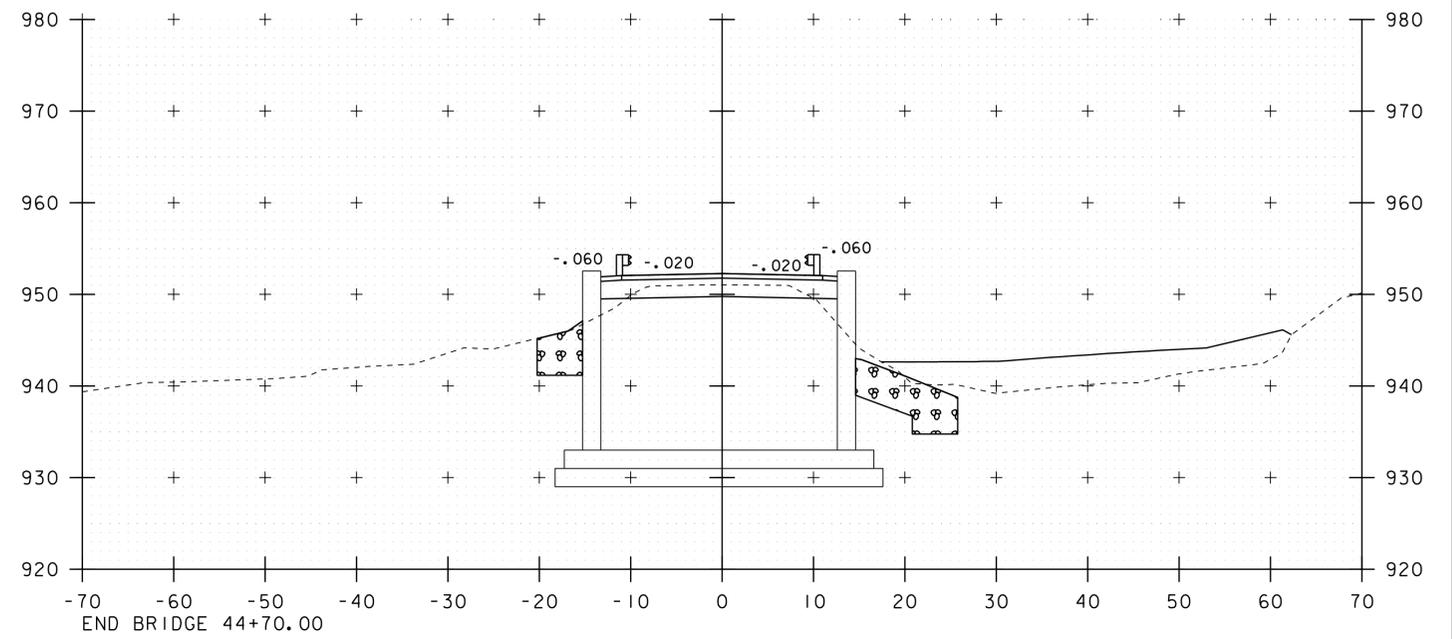
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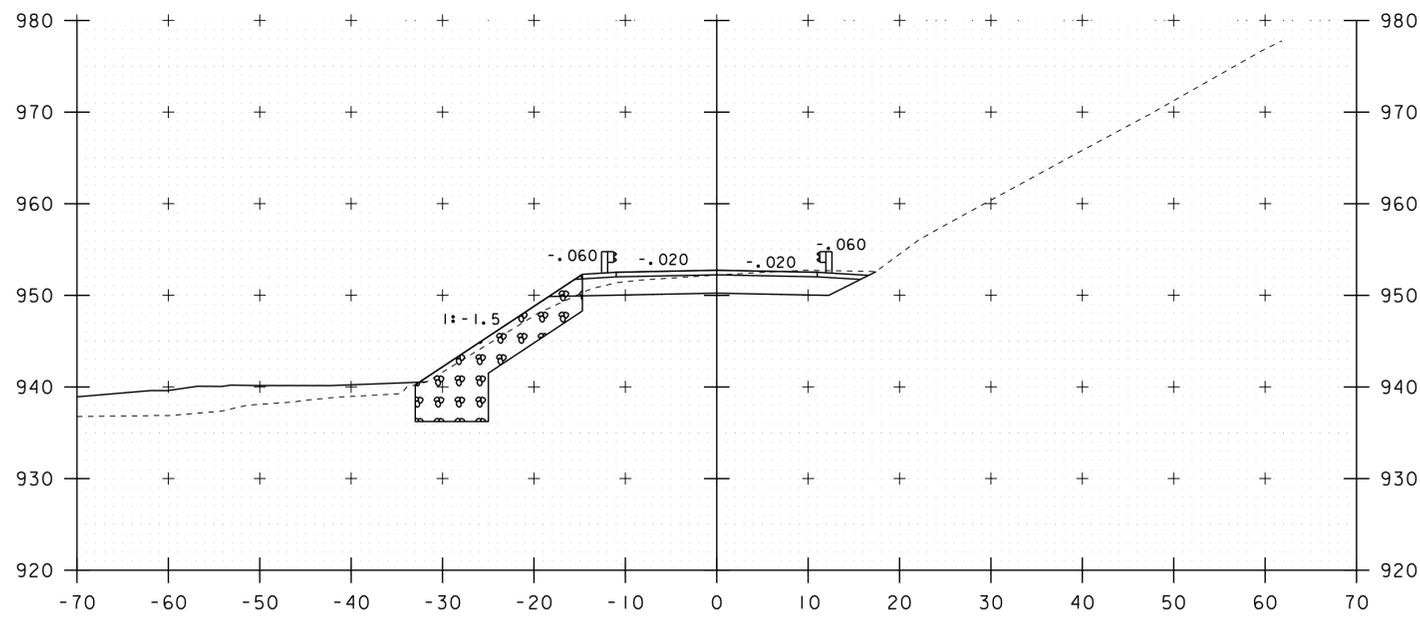
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PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. FRENCH	CHECKED BY: C. MOONEY
CROSS SECTIONS 2	SHEET 17 OF 28



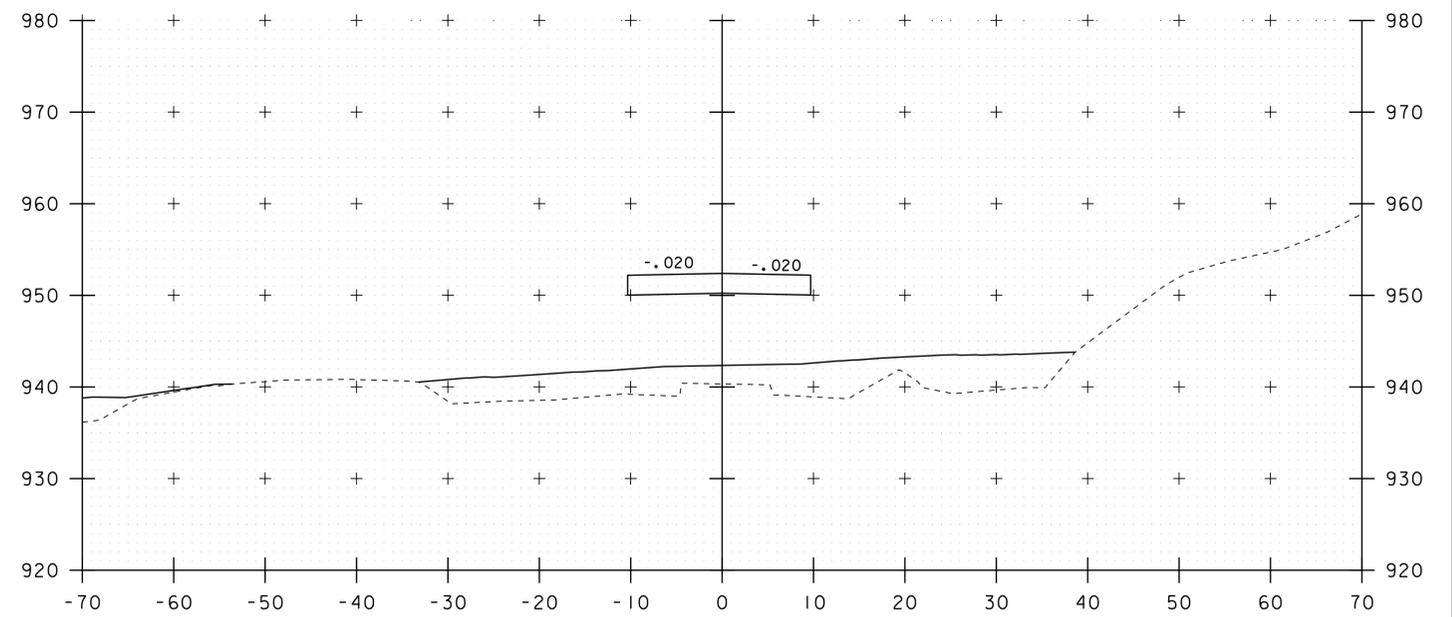
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44+75



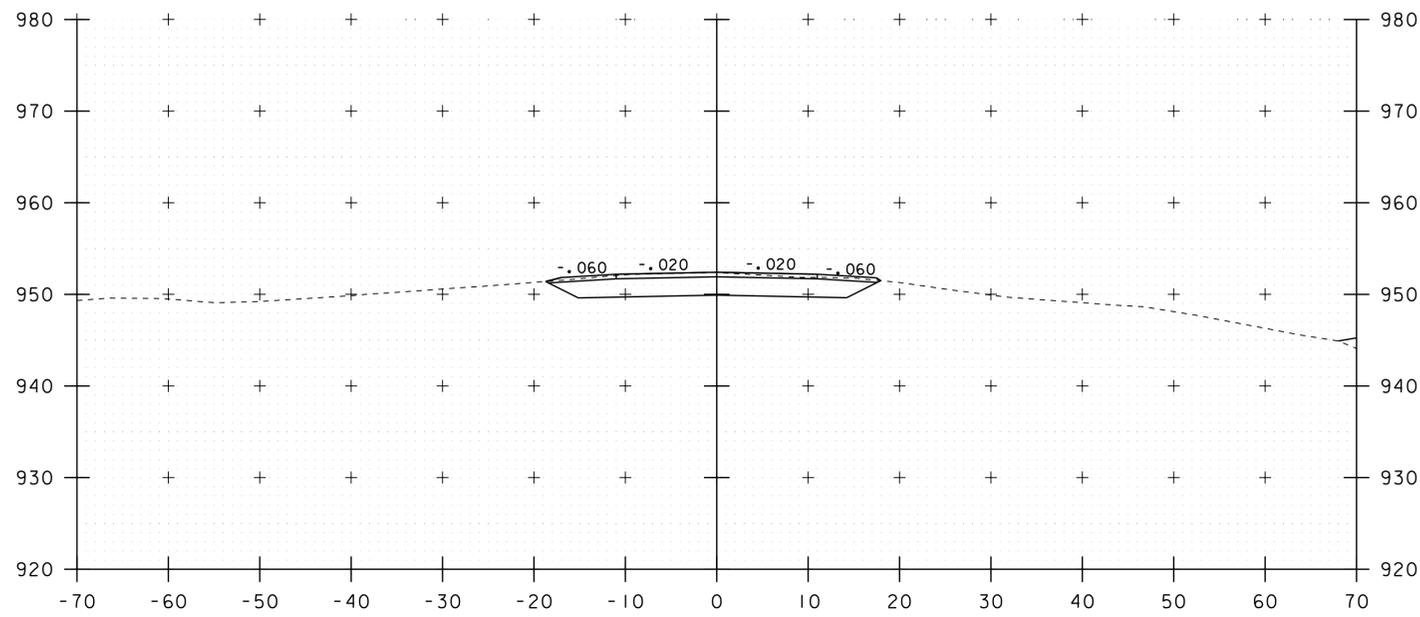
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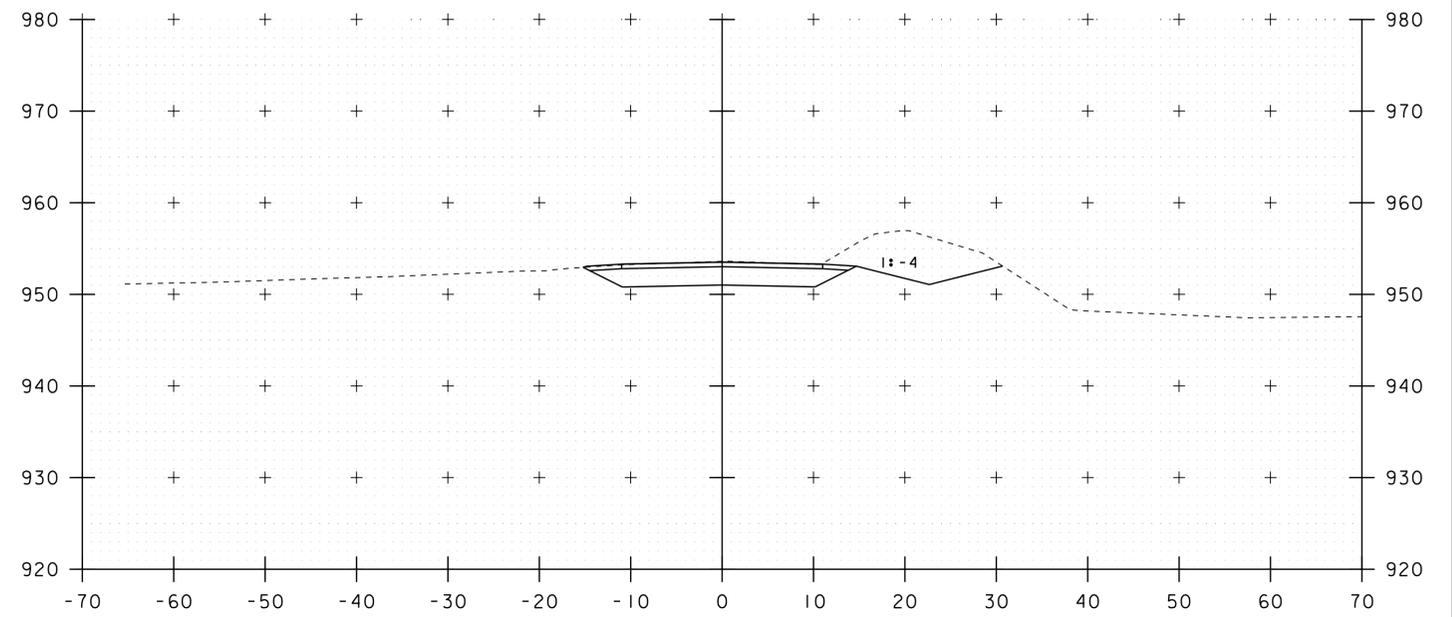
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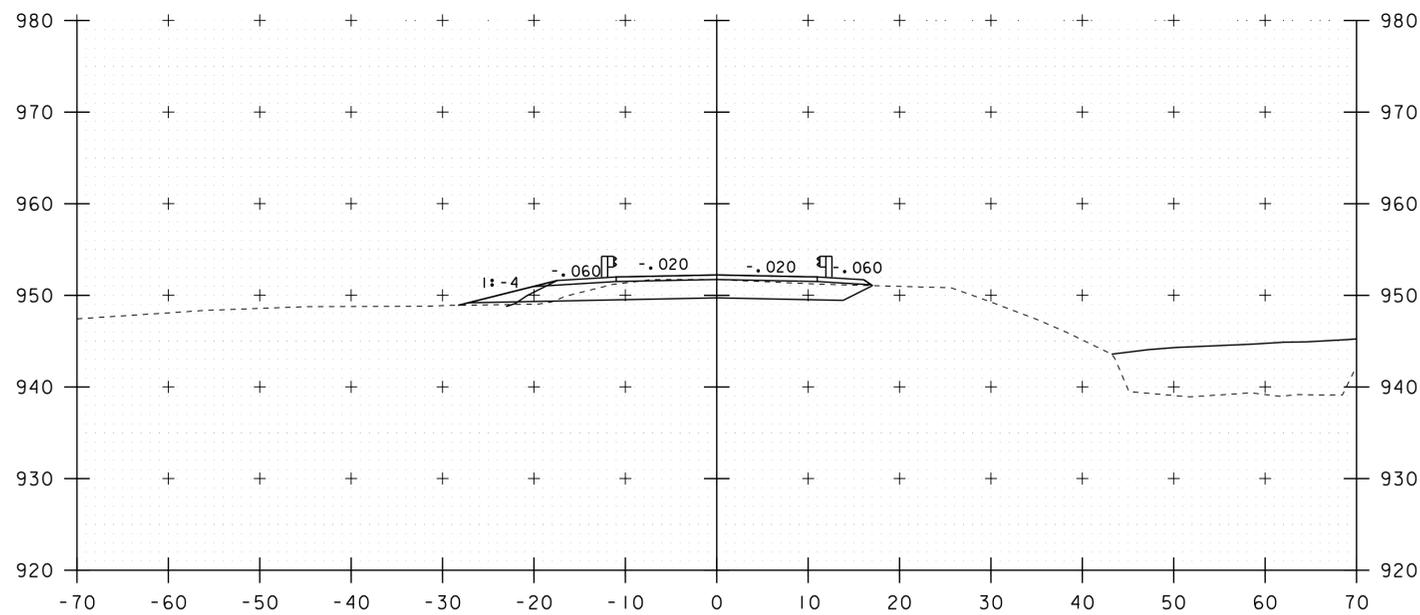
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<b>PROJECT NUMBER:</b>	BO 1445(38)	<b>DRAWN BY:</b>	C. FRENCH
<b>FILE NAME:</b>	12j630xs.dgn	<b>DESIGNED BY:</b>	C. FRENCH
<b>PROJECT LEADER:</b>	R. YOUNG	<b>CHECKED BY:</b>	C. MOONEY
<b>CROSS SECTIONS</b>	3	<b>SHEET</b>	18 OF 28



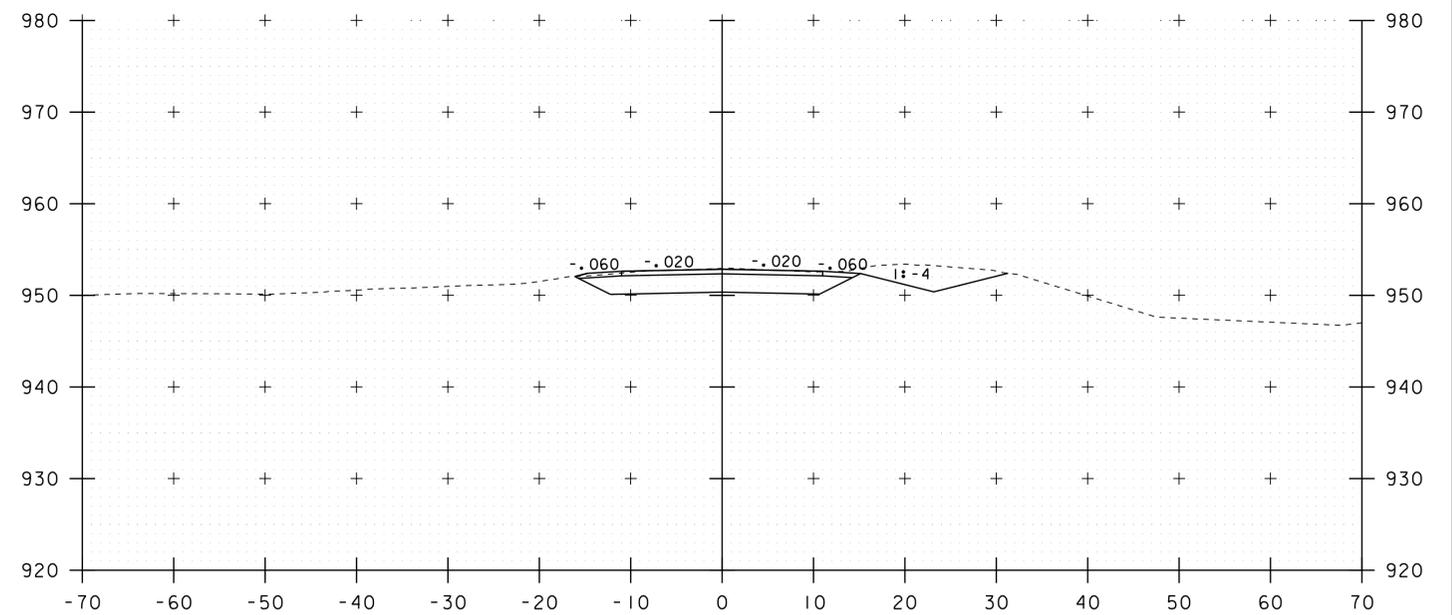
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45+75



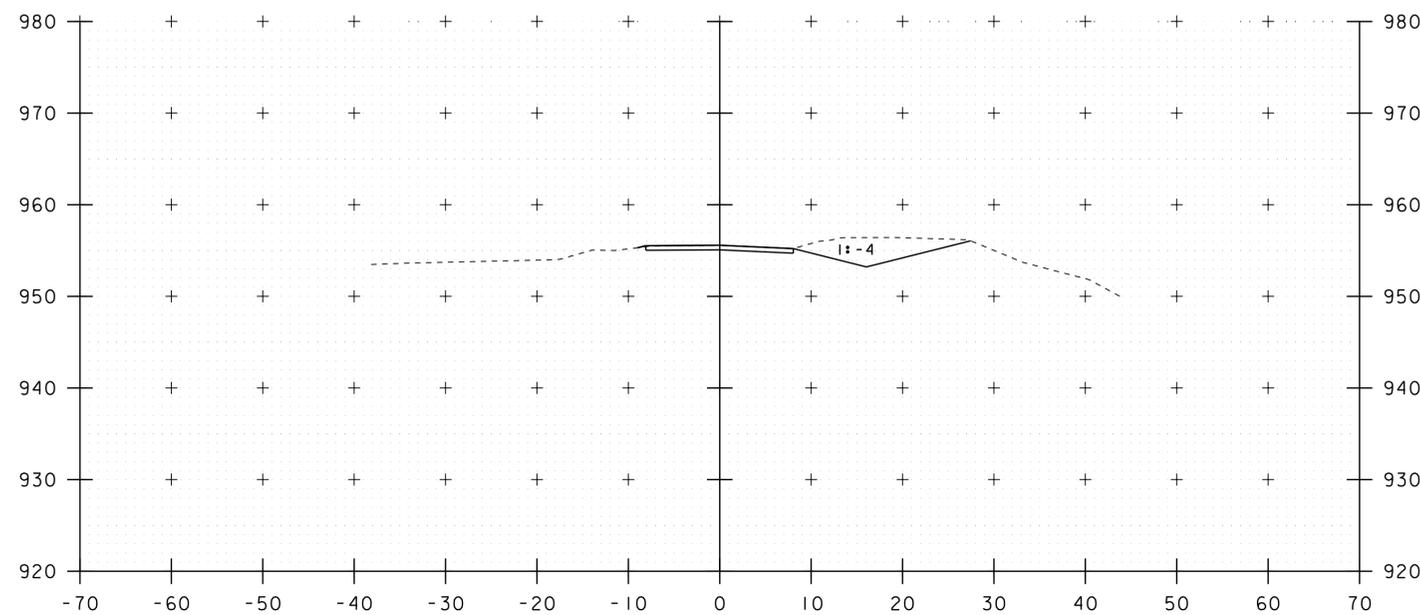
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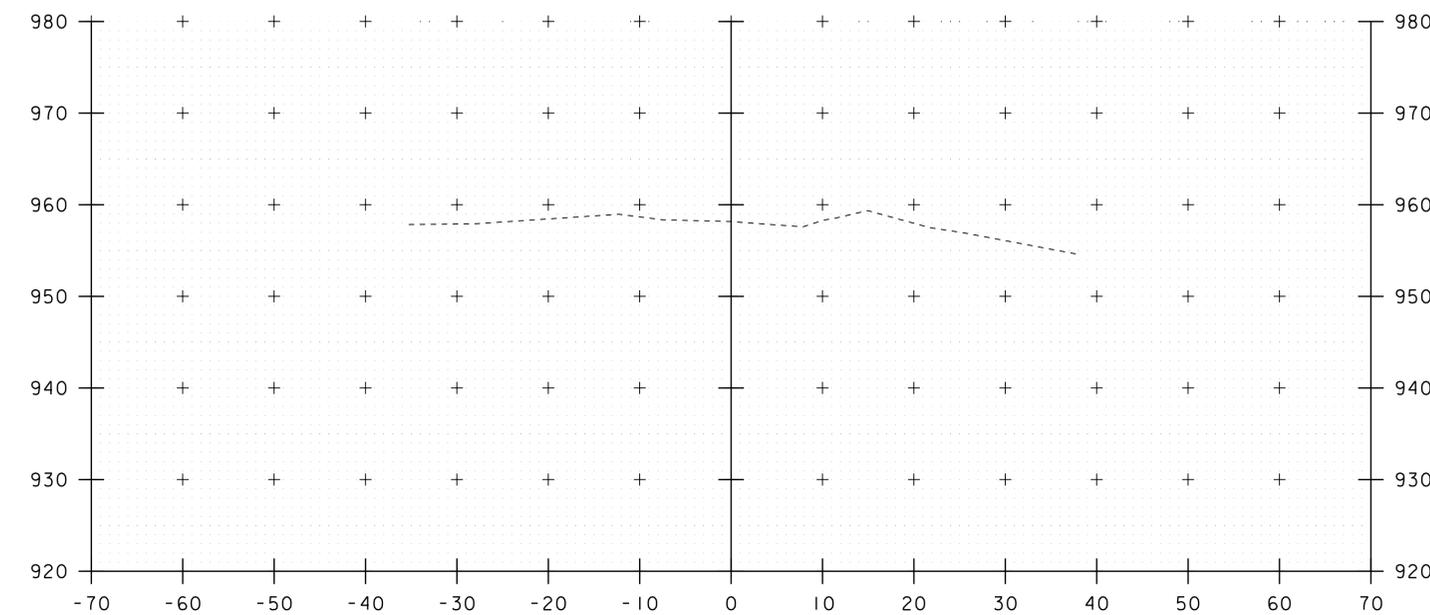
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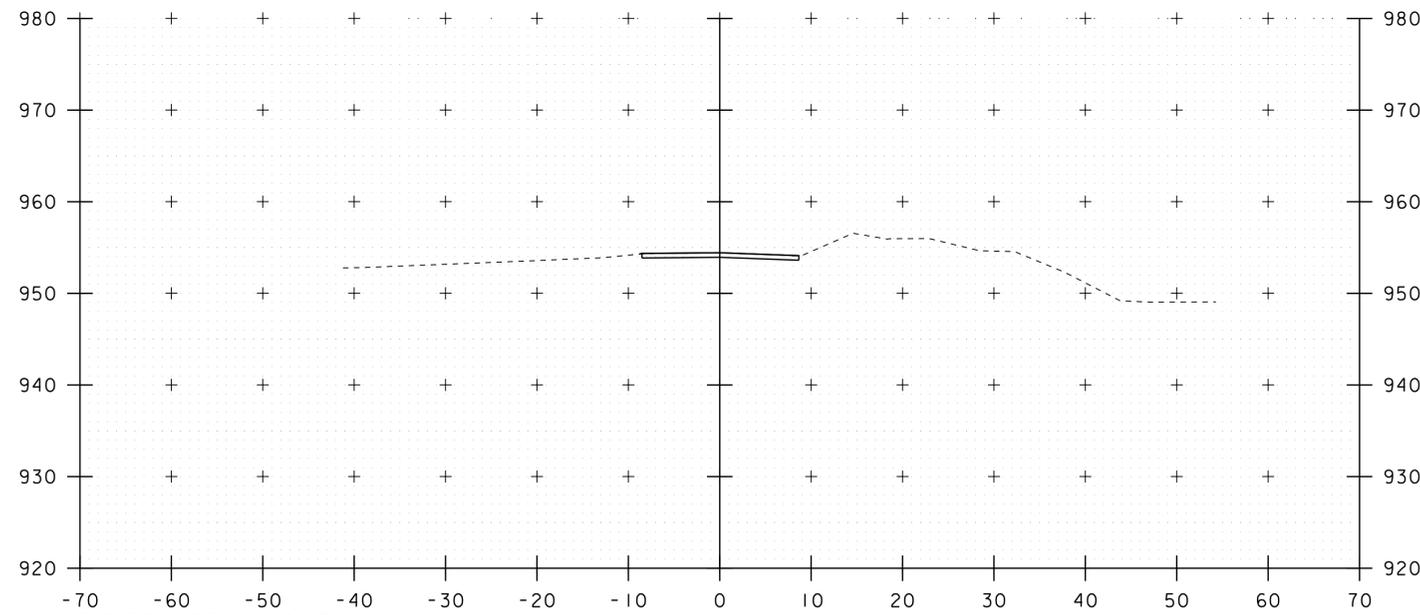
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<b>PROJECT LEADER:</b> R. YOUNG	<b>DRAWN BY:</b> C. FRENCH
<b>DESIGNED BY:</b> C. FRENCH	<b>CHECKED BY:</b> C. MOONEY
CROSS SECTIONS 4	<b>SHEET 19 OF 28</b>



46+25

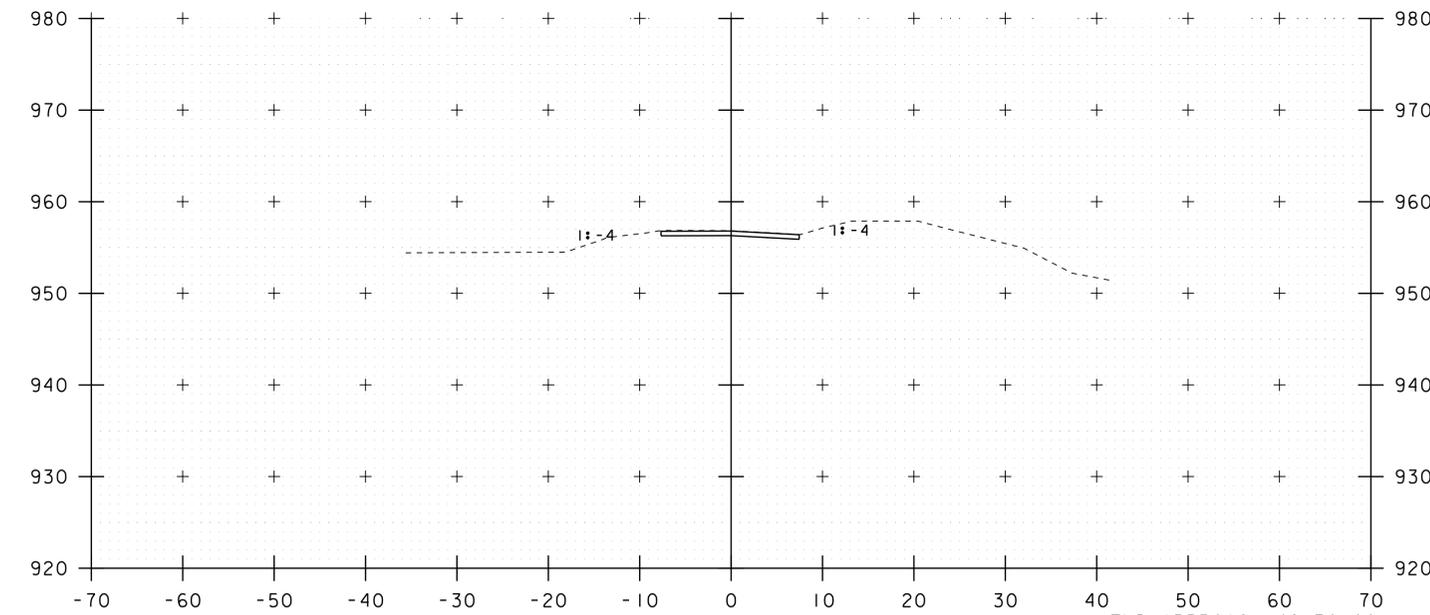


46+75



END PROJECT 46+00.00

46+00

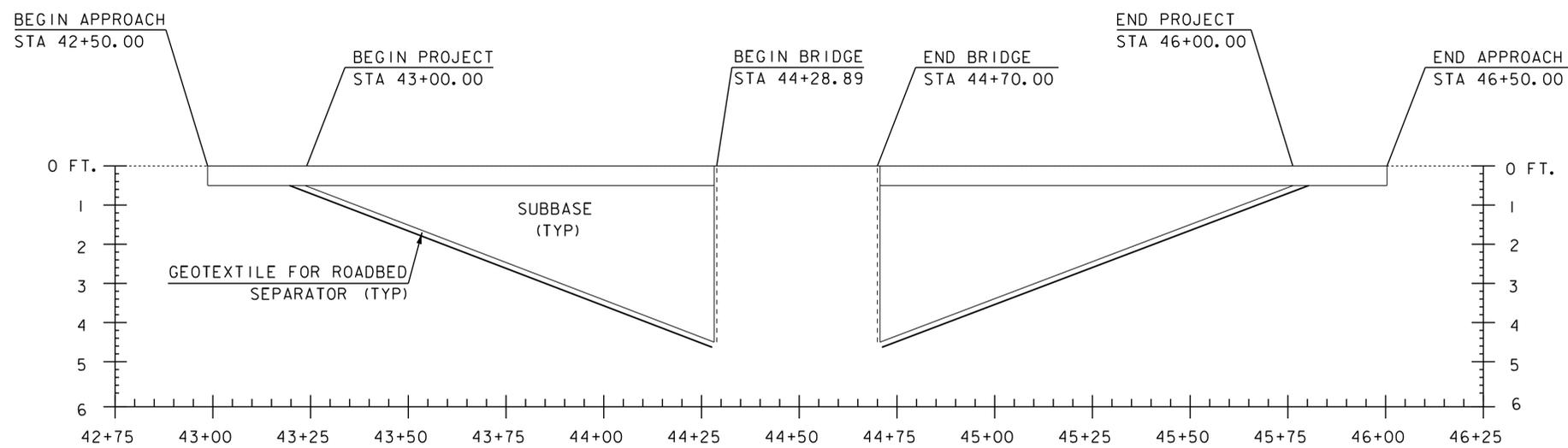
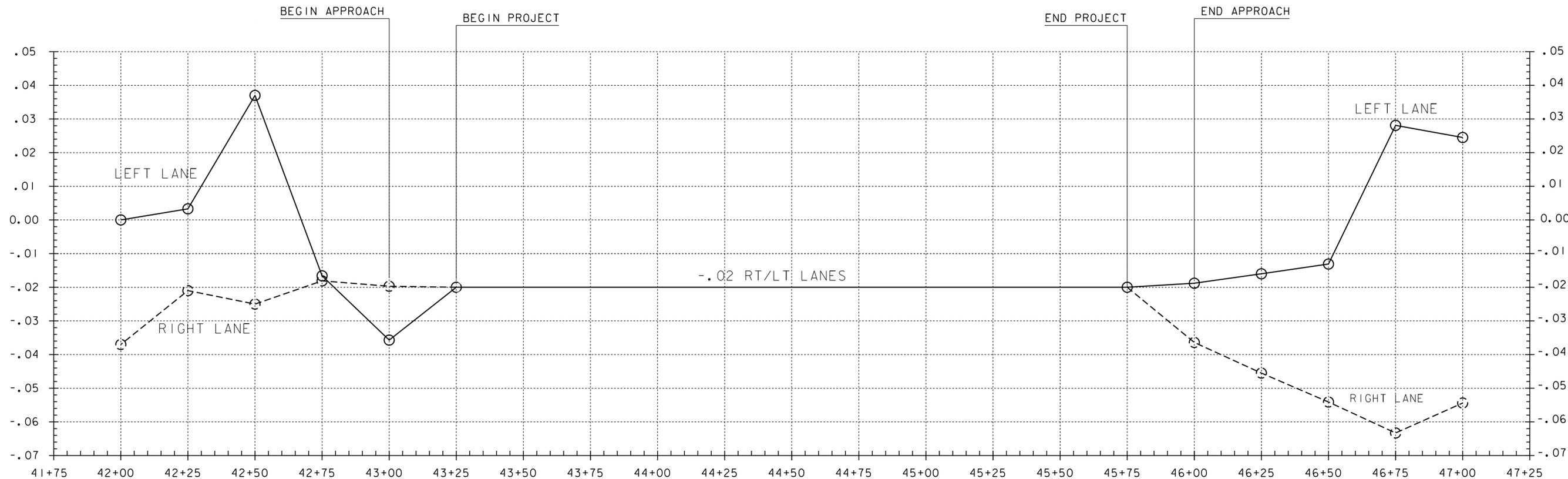


END APPROACH 46+50.00

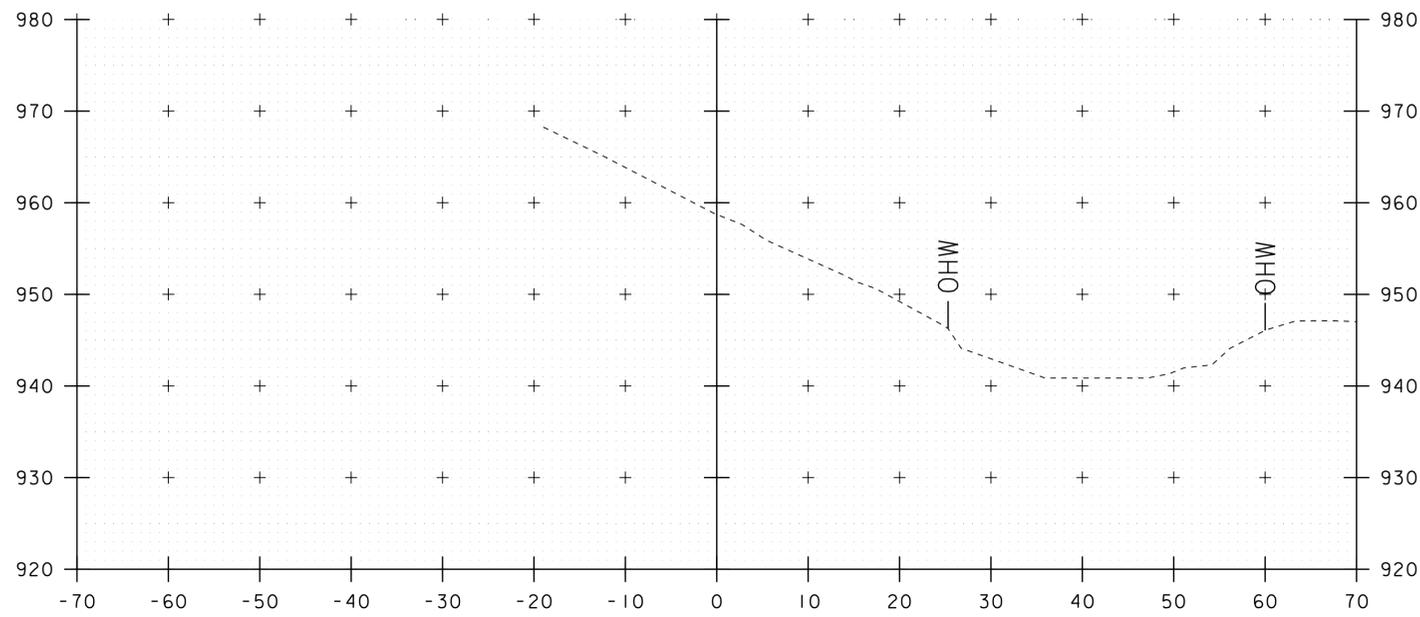
46+50

STA. 46+00 TO STA. 46+75

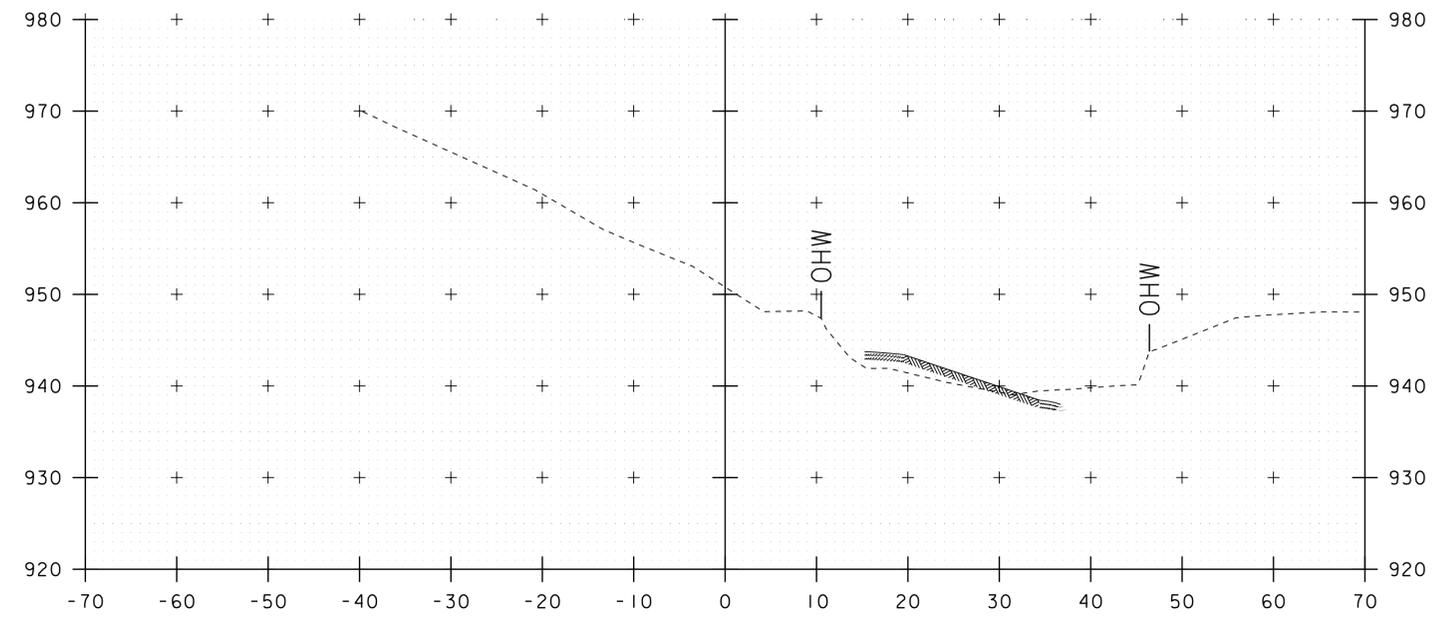
<b>PROJECT NAME:</b> HUNTINGTON	
<b>PROJECT NUMBER:</b> BO 1445(38)	
<b>FILE NAME:</b> 12j630xs.dgn	<b>PLOT DATE:</b> 03-JUN-2020
<b>PROJECT LEADER:</b> R. YOUNG	<b>DRAWN BY:</b> C. FRENCH
<b>DESIGNED BY:</b> C. FRENCH	<b>CHECKED BY:</b> C. MOONEY
<b>CROSS SECTIONS:</b> 5	<b>SHEET:</b> 20 <b>OF:</b> 28



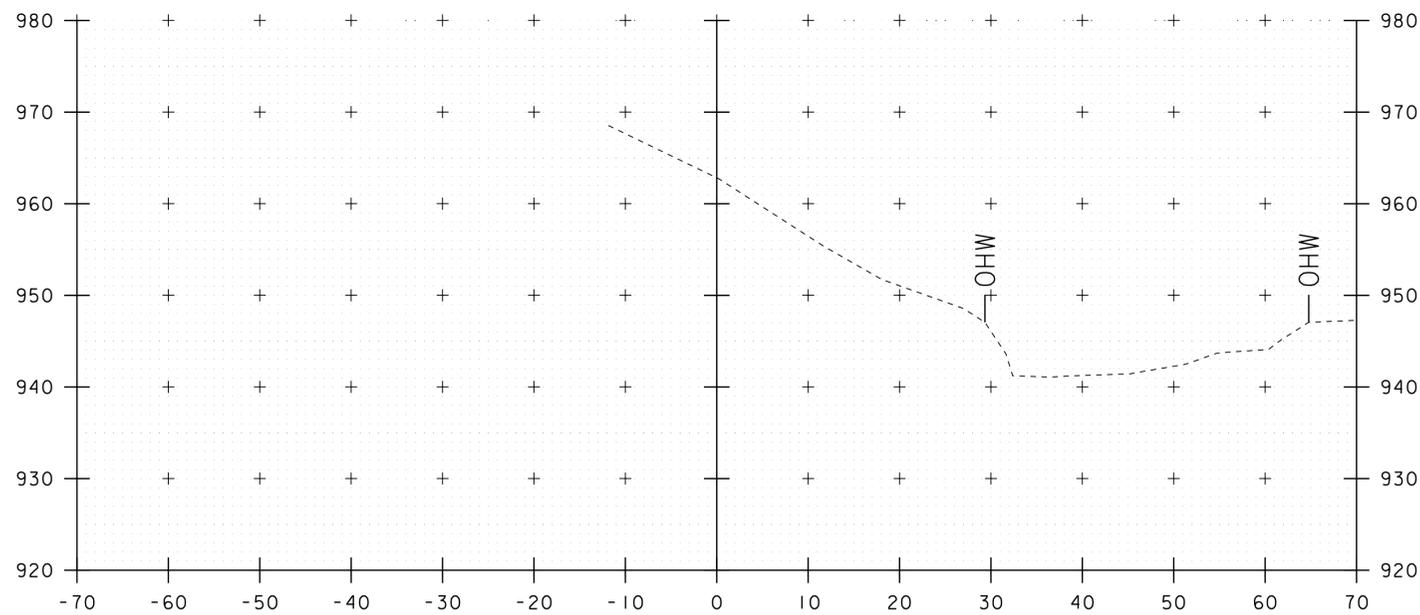
PROJECT NAME: HUNTINGTON	PLOT DATE: 03-JUN-2020
PROJECT NUMBER: BO 1445(38)	DRAWN BY: C. FRENCH
FILE NAME: sl2j630BankingMaterial.dgn	CHECKED BY: C. MOONEY
PROJECT LEADER: R. YOUNG	SHEET 21 OF 28
DESIGNED BY: C. FRENCH	
BANKING & MATERIAL TRANSITION SHEET	



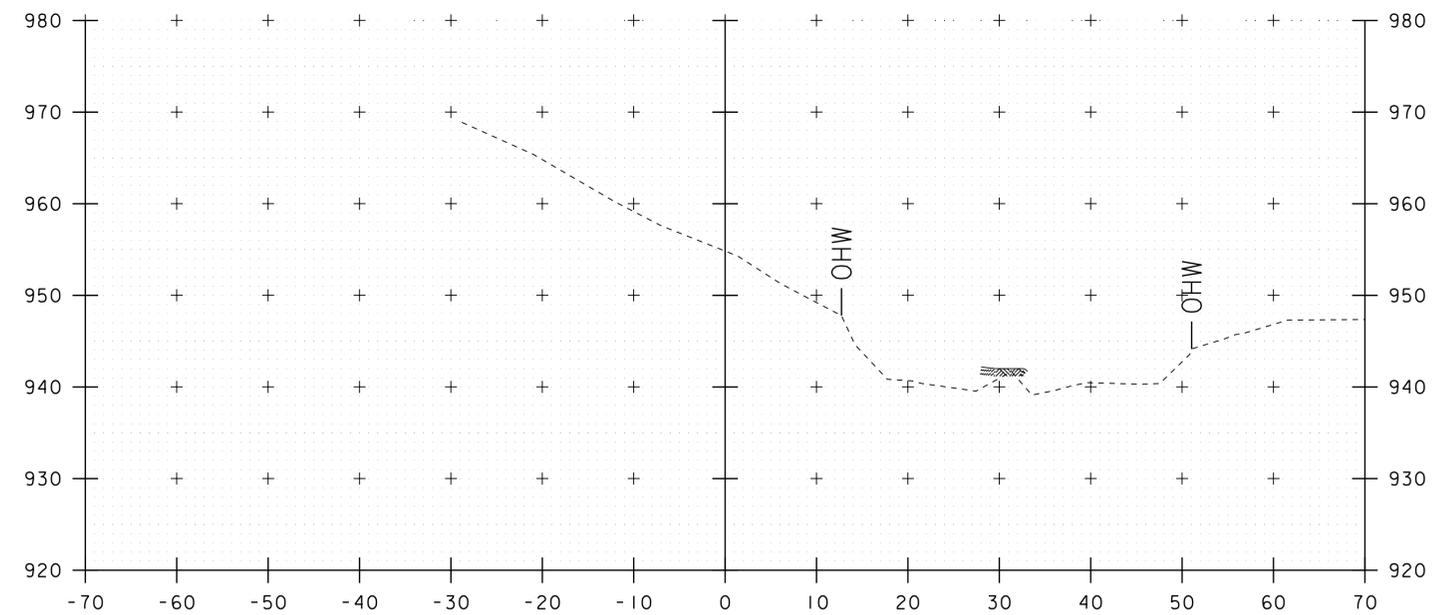
50+10



50+30



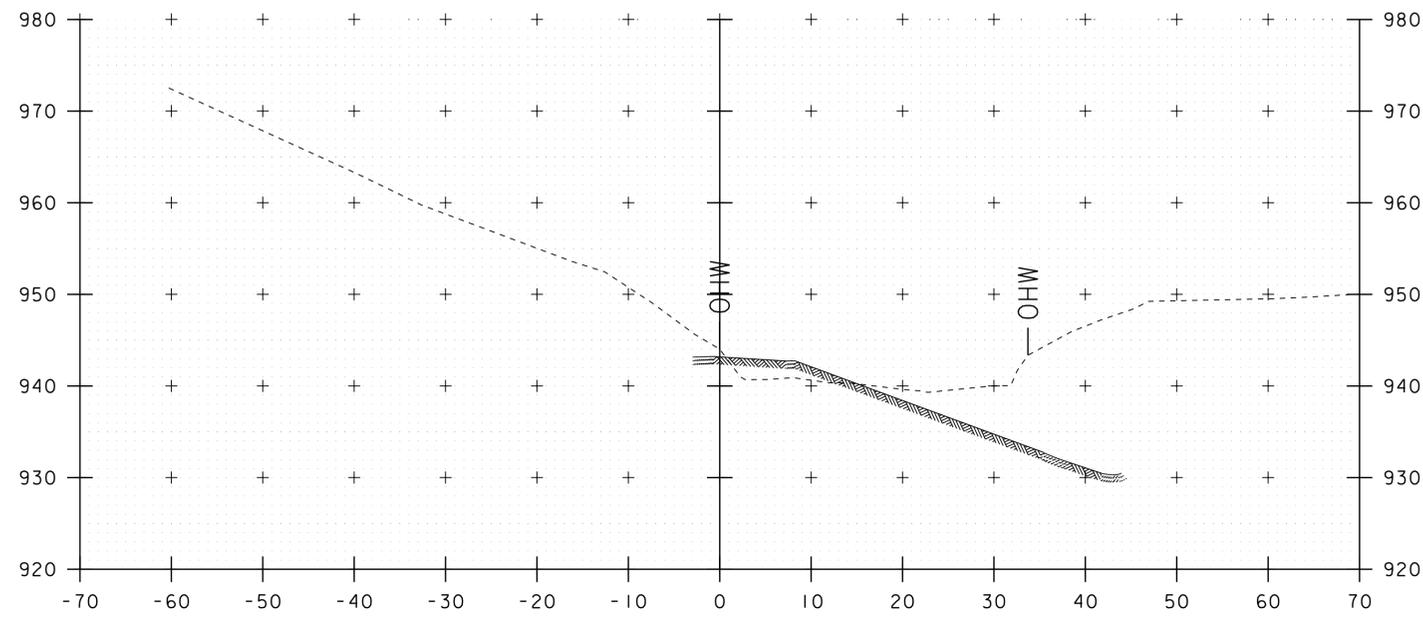
50+00



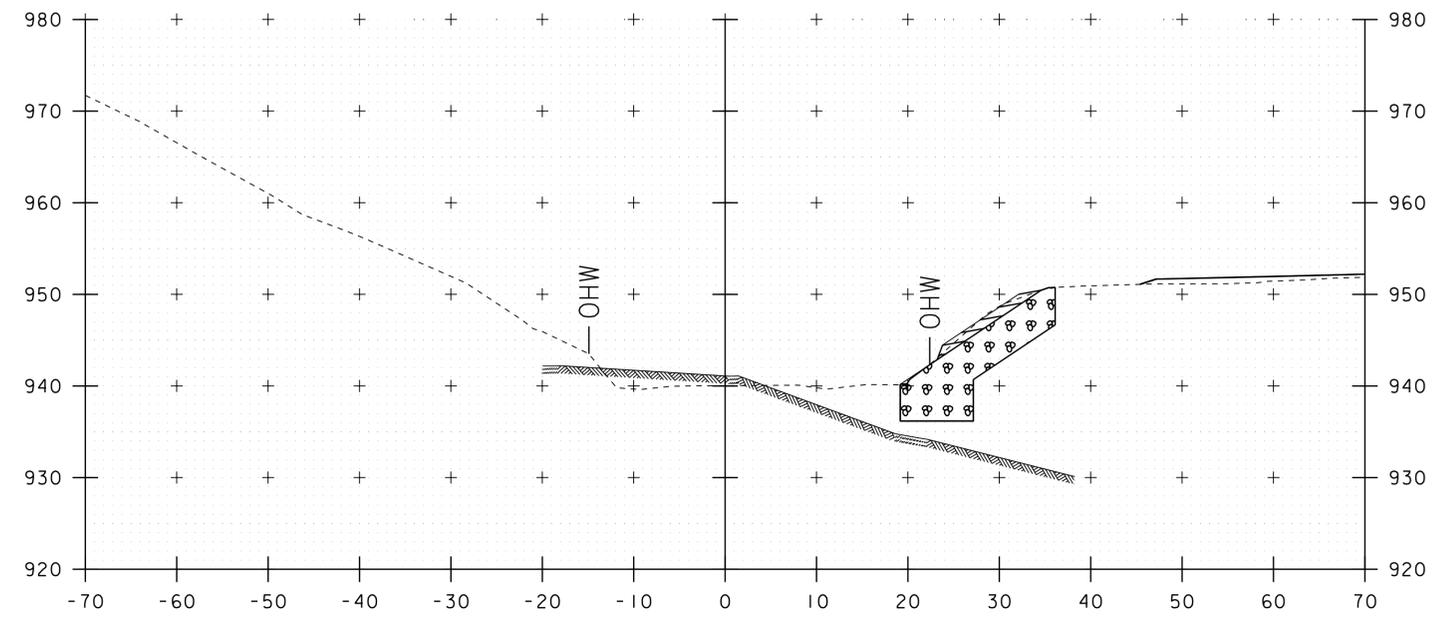
50+20

STA. 50+00 TO STA. 50+30

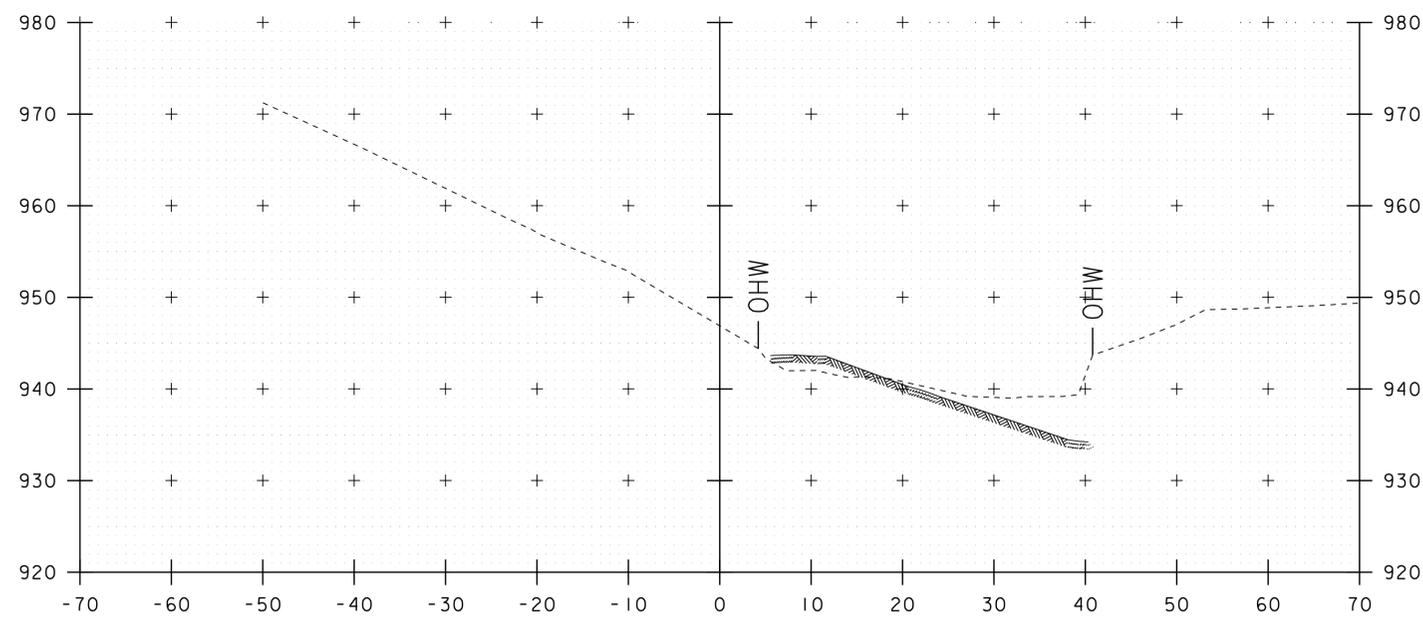
<b>PROJECT NAME:</b> HUNTINGTON	
<b>PROJECT NUMBER:</b> B0 1445(38)	
<b>FILE NAME:</b> 12j630xs.dgn	<b>PLOT DATE:</b> 03-JUN-2020
<b>PROJECT LEADER:</b> R. YOUNG	<b>DRAWN BY:</b> C. FRENCH
<b>DESIGNED BY:</b> C. FRENCH	<b>CHECKED BY:</b> C. MOONEY
<b>CHANNEL CROSS SECTIONS 1</b>	<b>SHEET 22 OF 28</b>



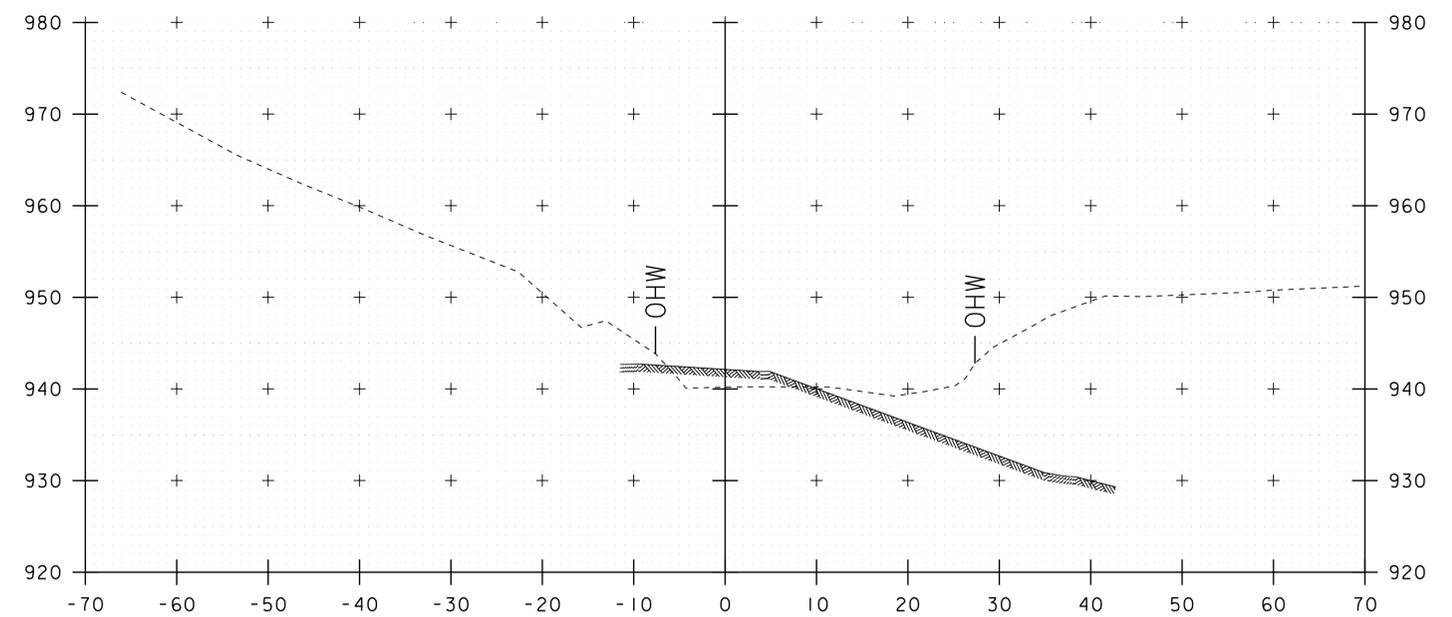
50+50



50+70



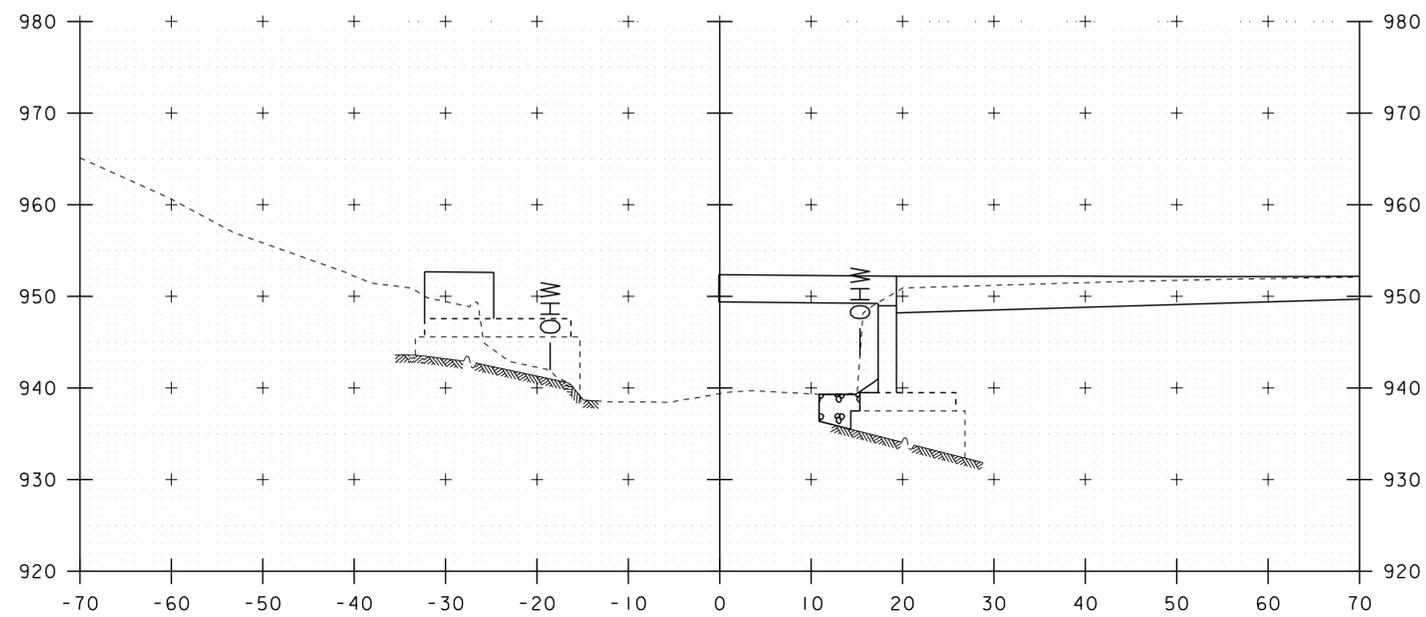
50+40



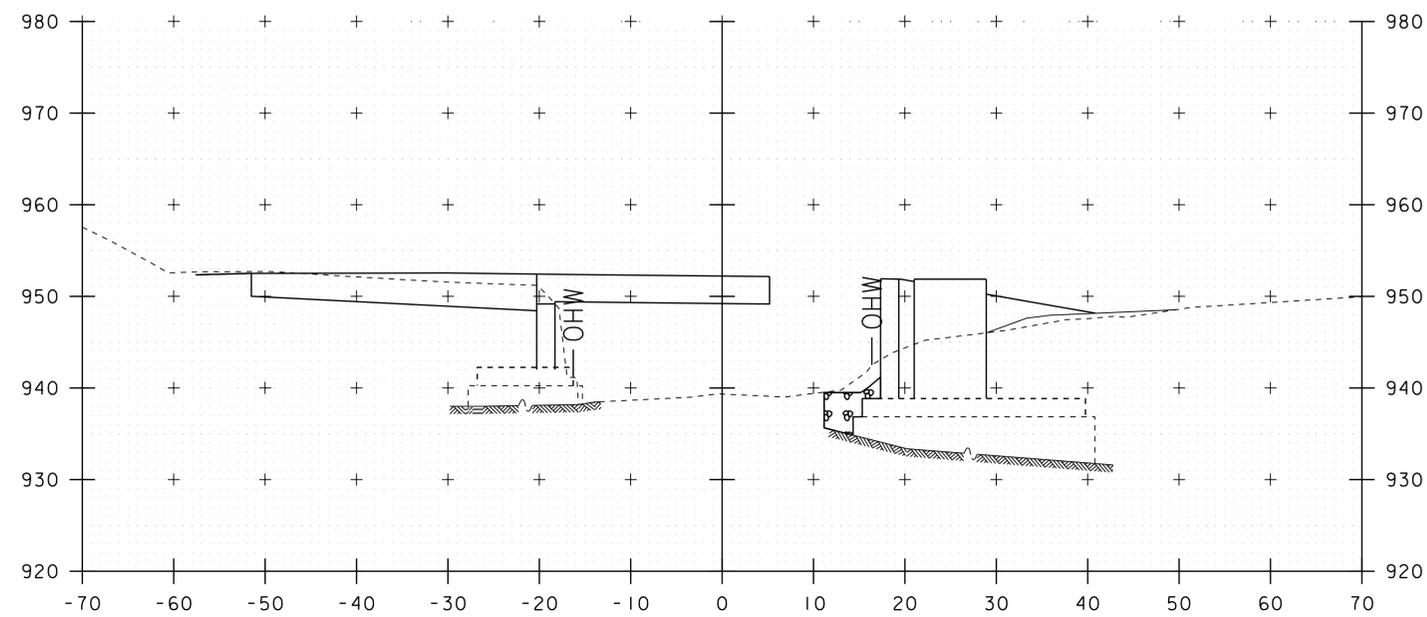
50+60

STA. 50+40 TO STA. 50+70

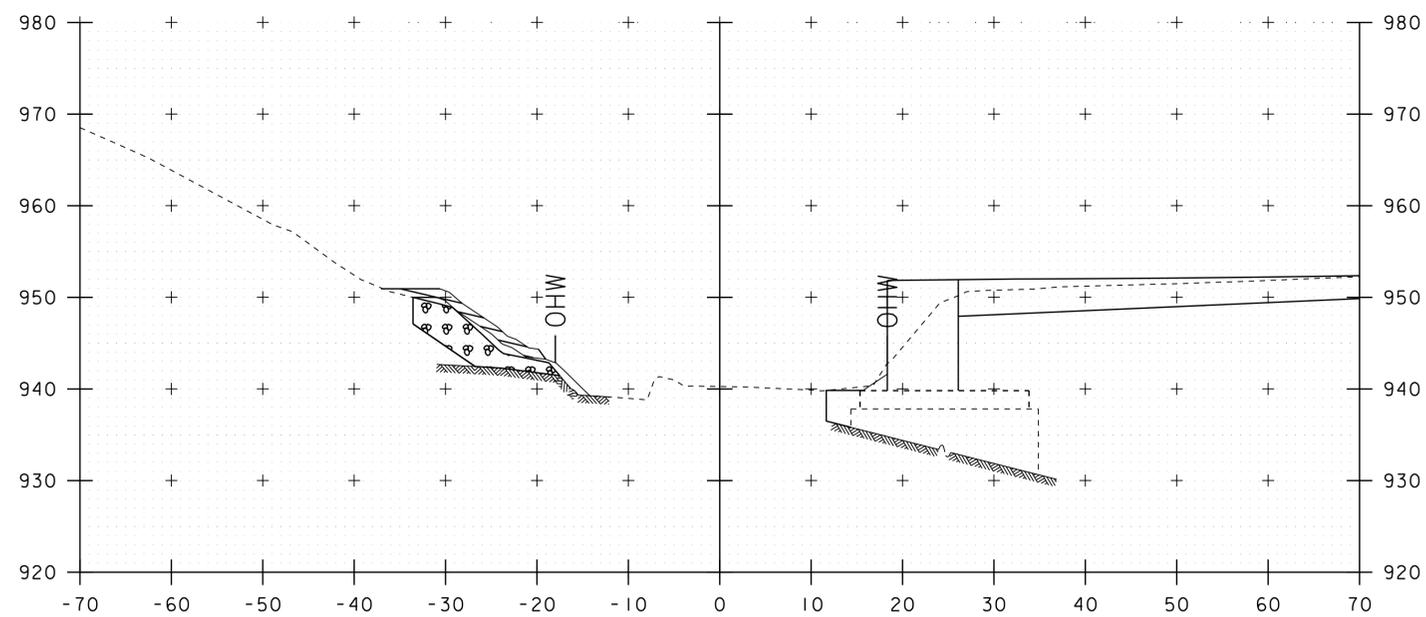
<b>PROJECT NAME:</b>	HUNTINGTON	<b>PLOT DATE:</b>	03-JUN-2020
<b>PROJECT NUMBER:</b>	B0 1445(38)	<b>DRAWN BY:</b>	C. FRENCH
<b>FILE NAME:</b>	12j630xs.dgn	<b>DESIGNED BY:</b>	C. FRENCH
<b>PROJECT LEADER:</b>	R. YOUNG	<b>CHECKED BY:</b>	C. MOONEY
<b>CHANNEL CROSS SECTIONS:</b>	2	<b>SHEET</b>	23 <b>OF</b> 28



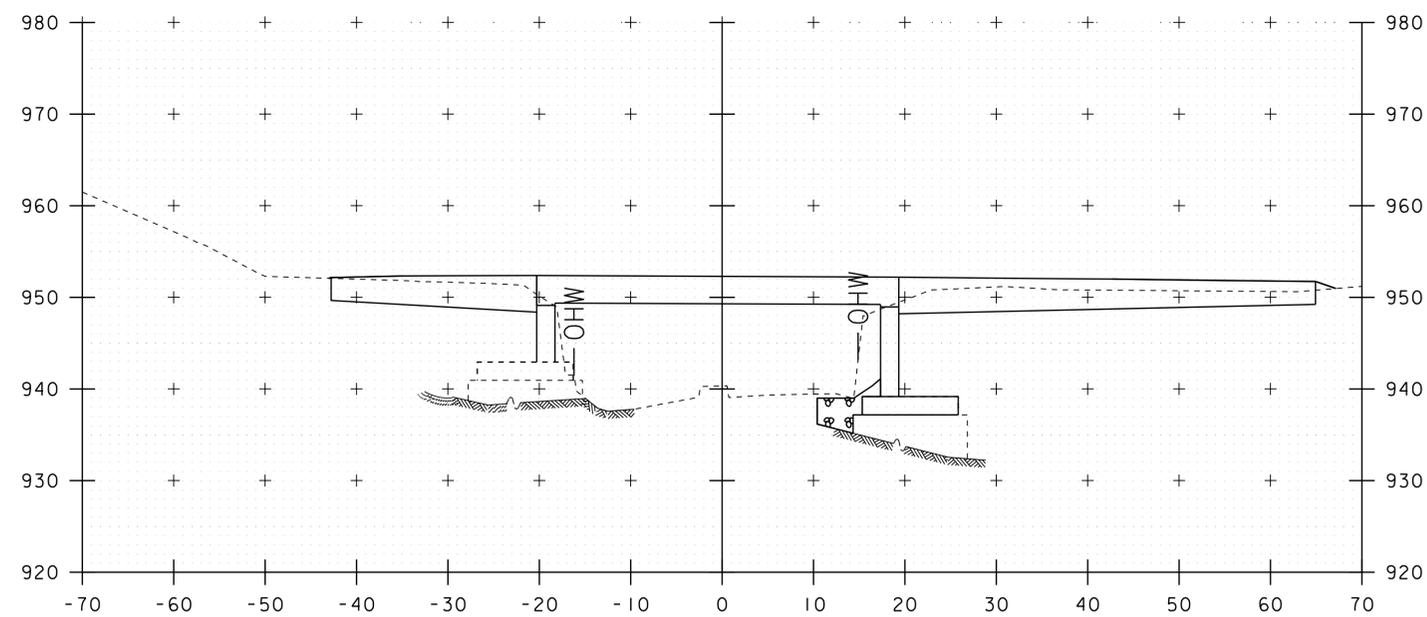
50+90



51+10



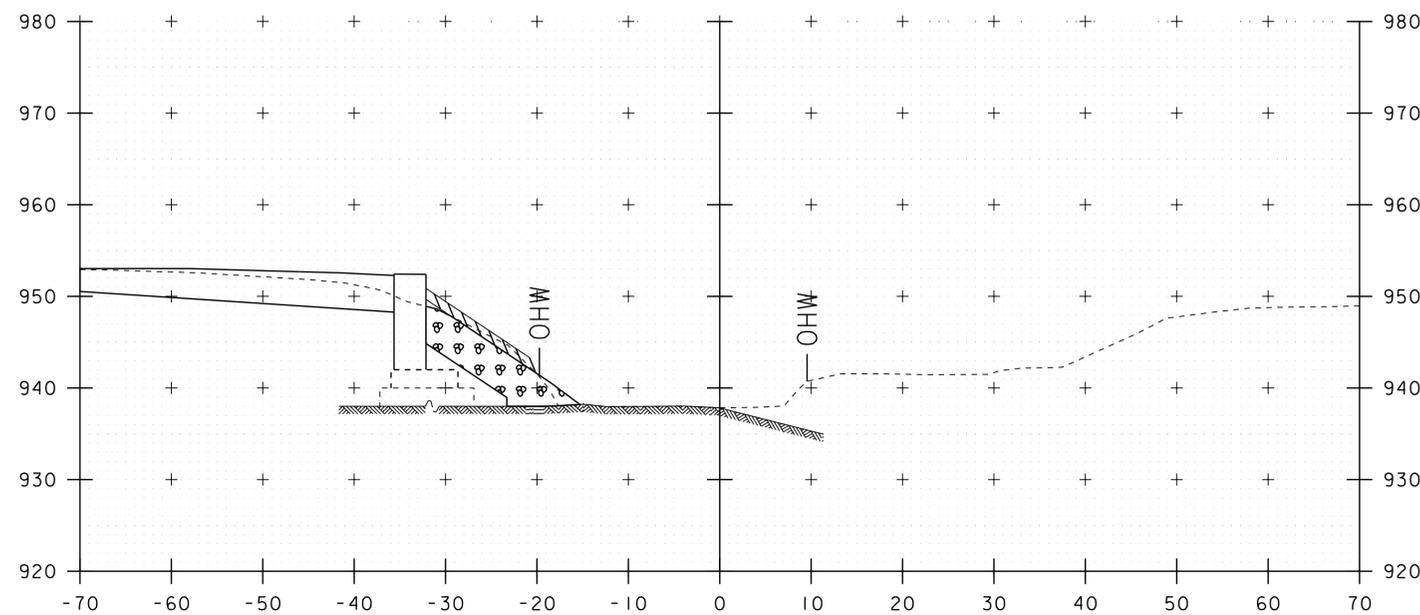
50+80



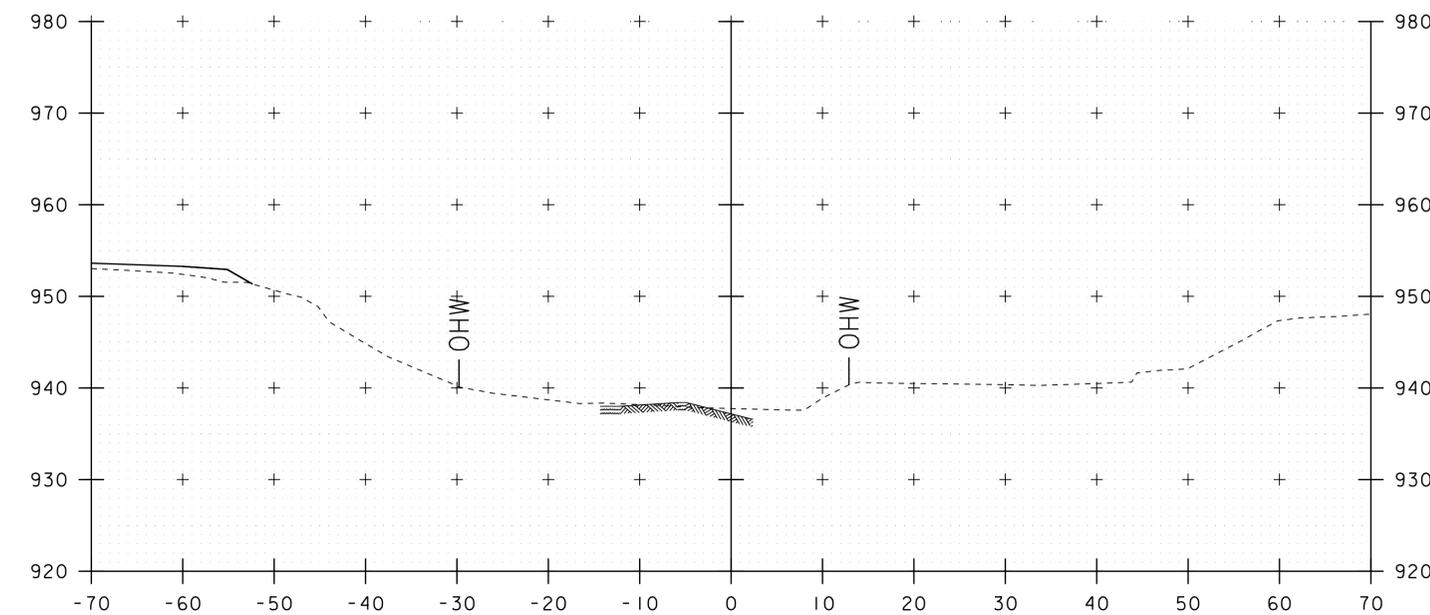
51+00

STA. 50+80 TO STA. 51+10

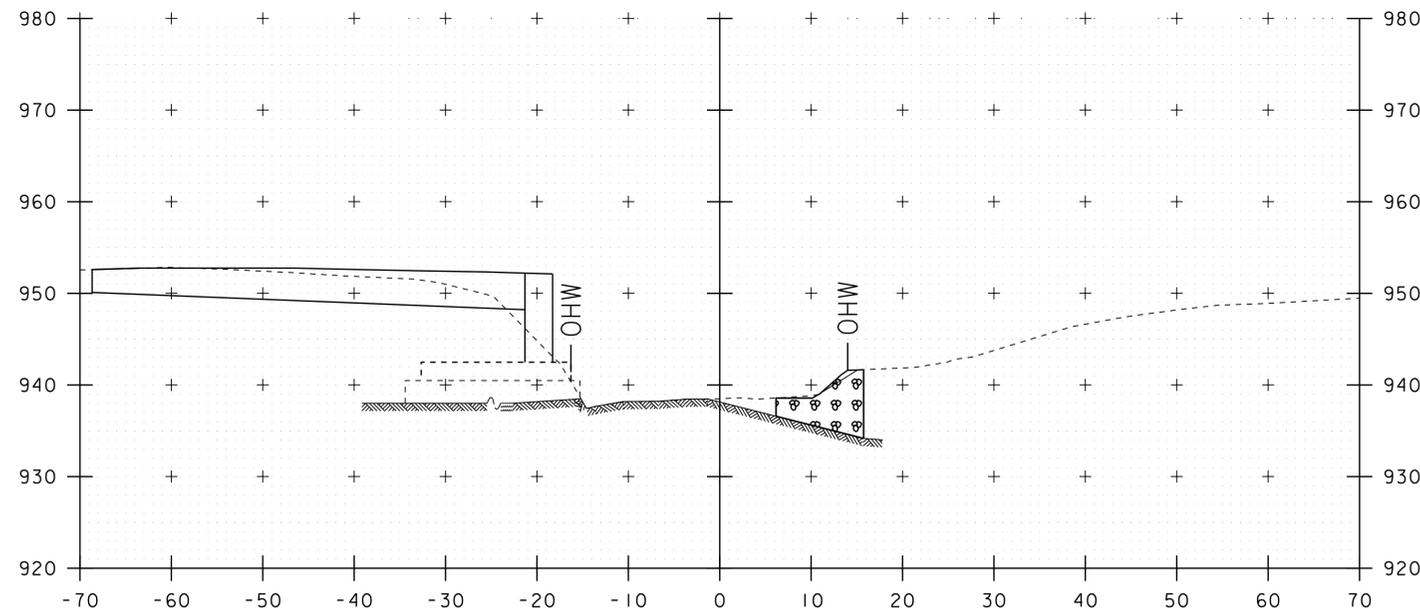
<b>PROJECT NAME:</b>	HUNTINGTON	<b>PLOT DATE:</b>	03-JUN-2020
<b>PROJECT NUMBER:</b>	B0 1445(38)	<b>DRAWN BY:</b>	C. FRENCH
<b>FILE NAME:</b>	12j630xs.dgn	<b>DESIGNED BY:</b>	C. FRENCH
<b>PROJECT LEADER:</b>	R. YOUNG	<b>CHECKED BY:</b>	C. MOONEY
<b>CHANNEL CROSS SECTIONS:</b>	3	<b>SHEET</b>	24 <b>OF</b> 28



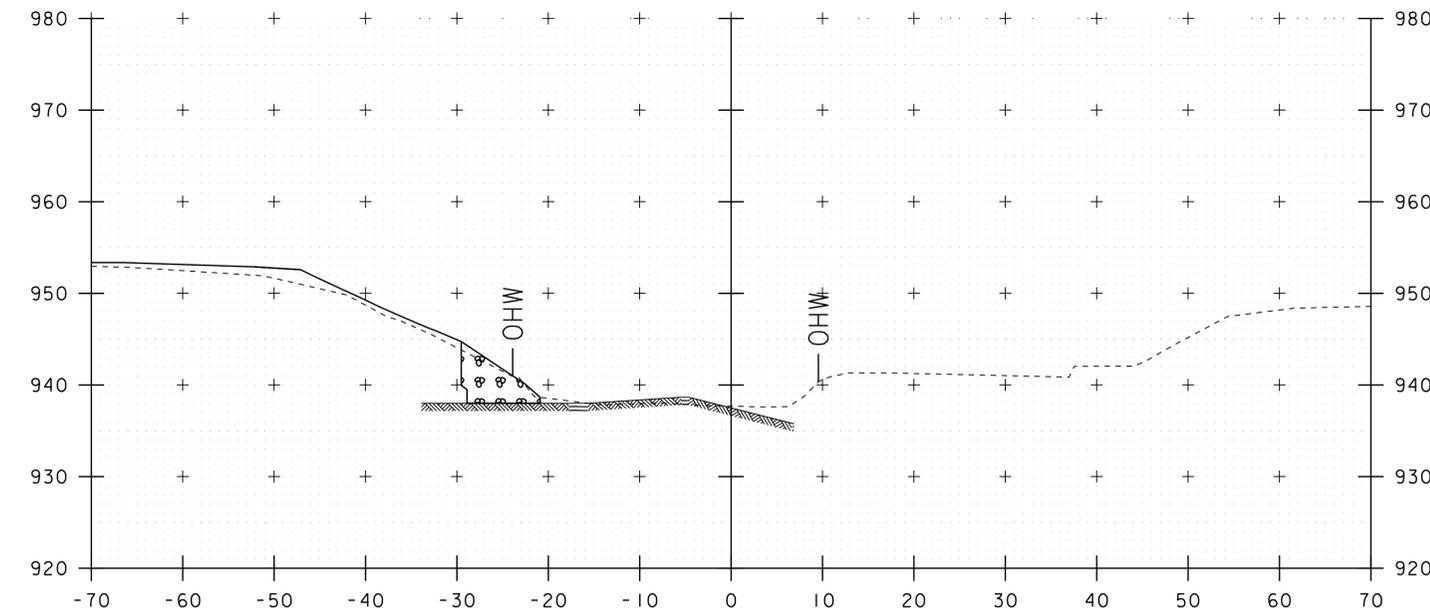
51+30



51+50



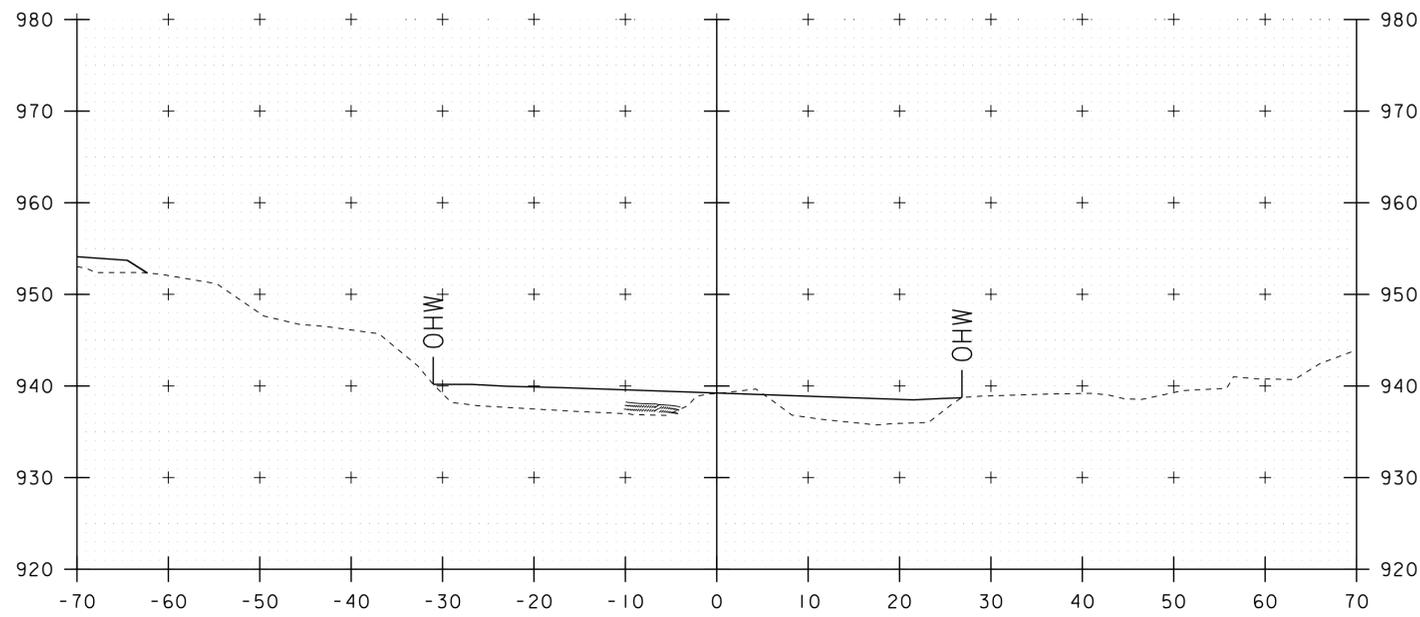
51+20



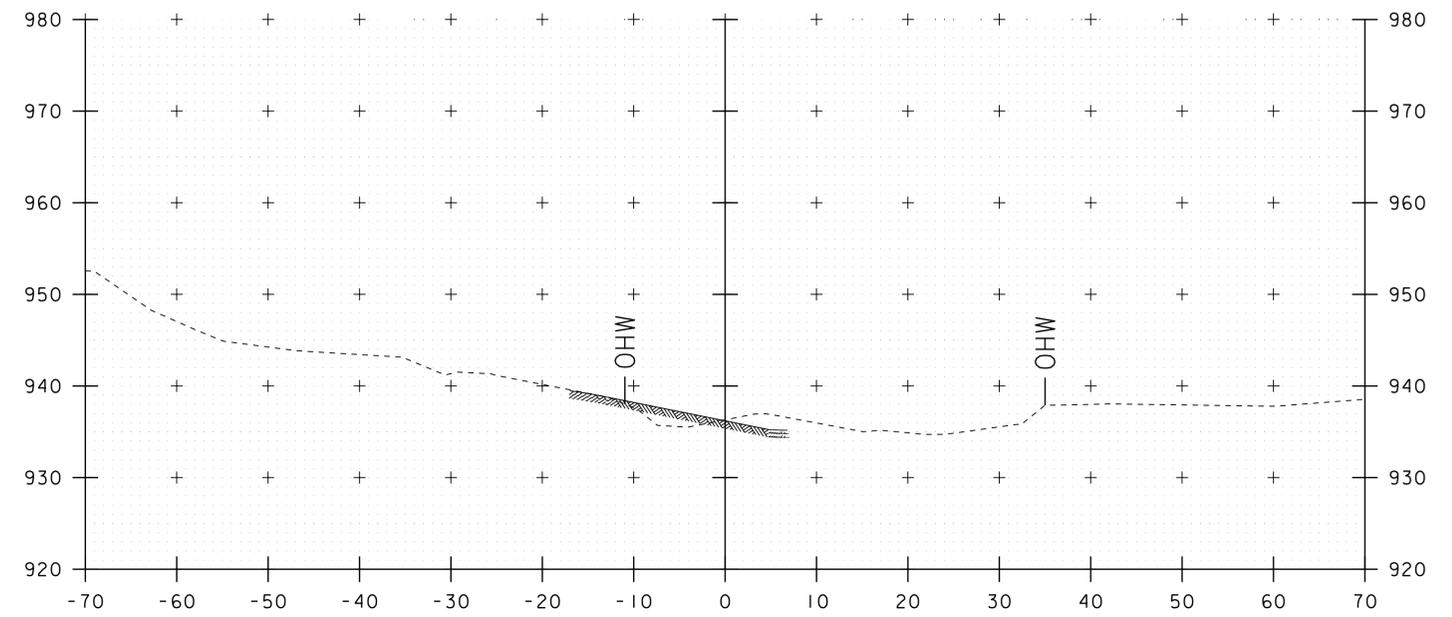
51+40

STA. 51+20 TO STA. 51+50

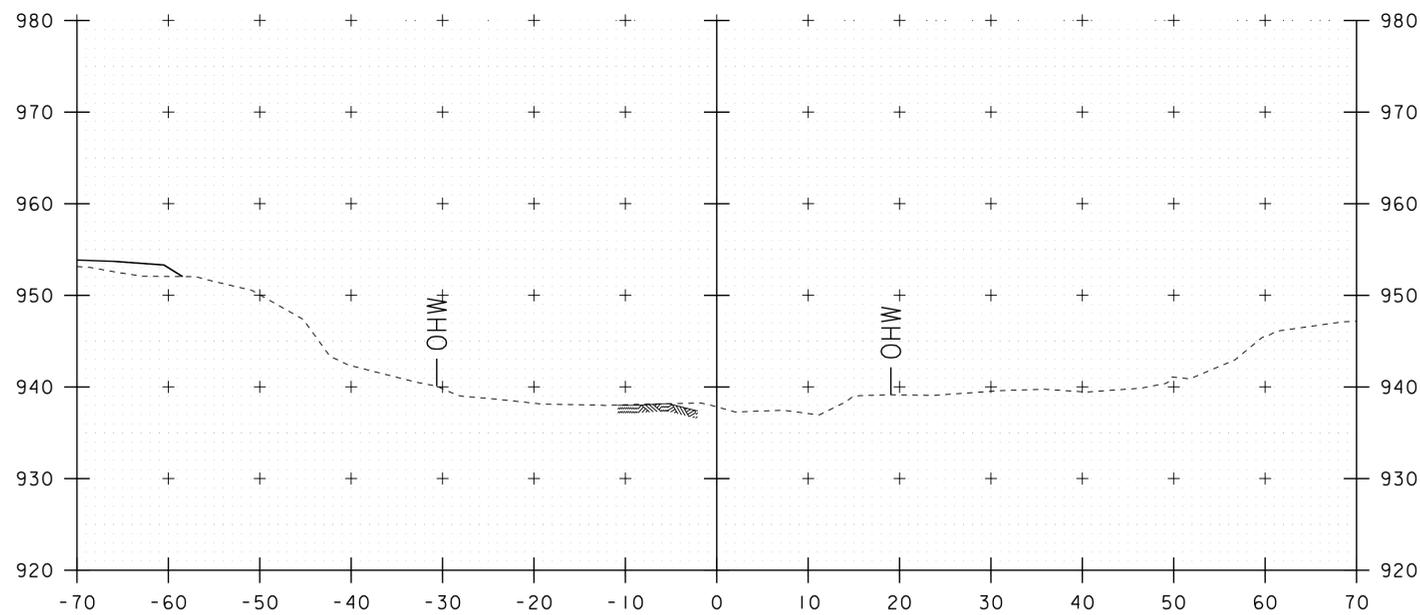
<b>PROJECT NAME:</b> HUNTINGTON	
<b>PROJECT NUMBER:</b> B0 1445(38)	
<b>FILE NAME:</b> 12j630xs.dgn	<b>PLOT DATE:</b> 03-JUN-2020
<b>PROJECT LEADER:</b> R. YOUNG	<b>DRAWN BY:</b> C. FRENCH
<b>DESIGNED BY:</b> C. FRENCH	<b>CHECKED BY:</b> C. MOONEY
<b>CHANNEL CROSS SECTIONS:</b> 4	<b>SHEET:</b> 25 <b>OF:</b> 28



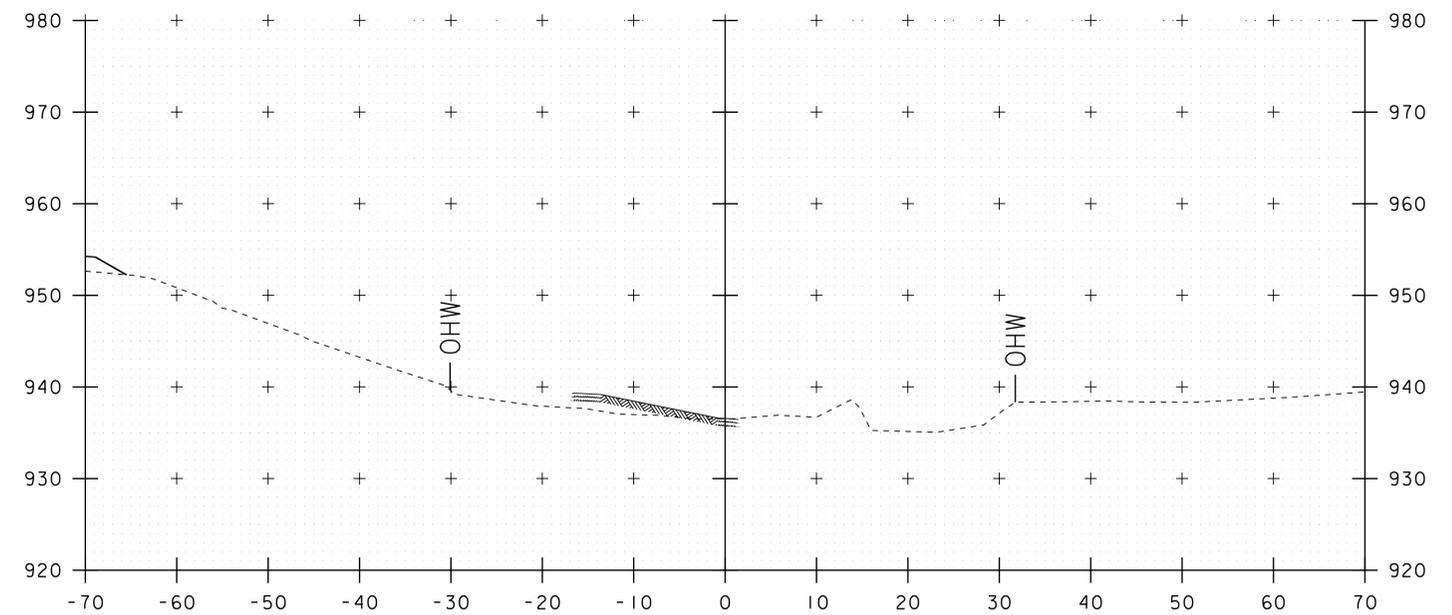
51+70



51+90



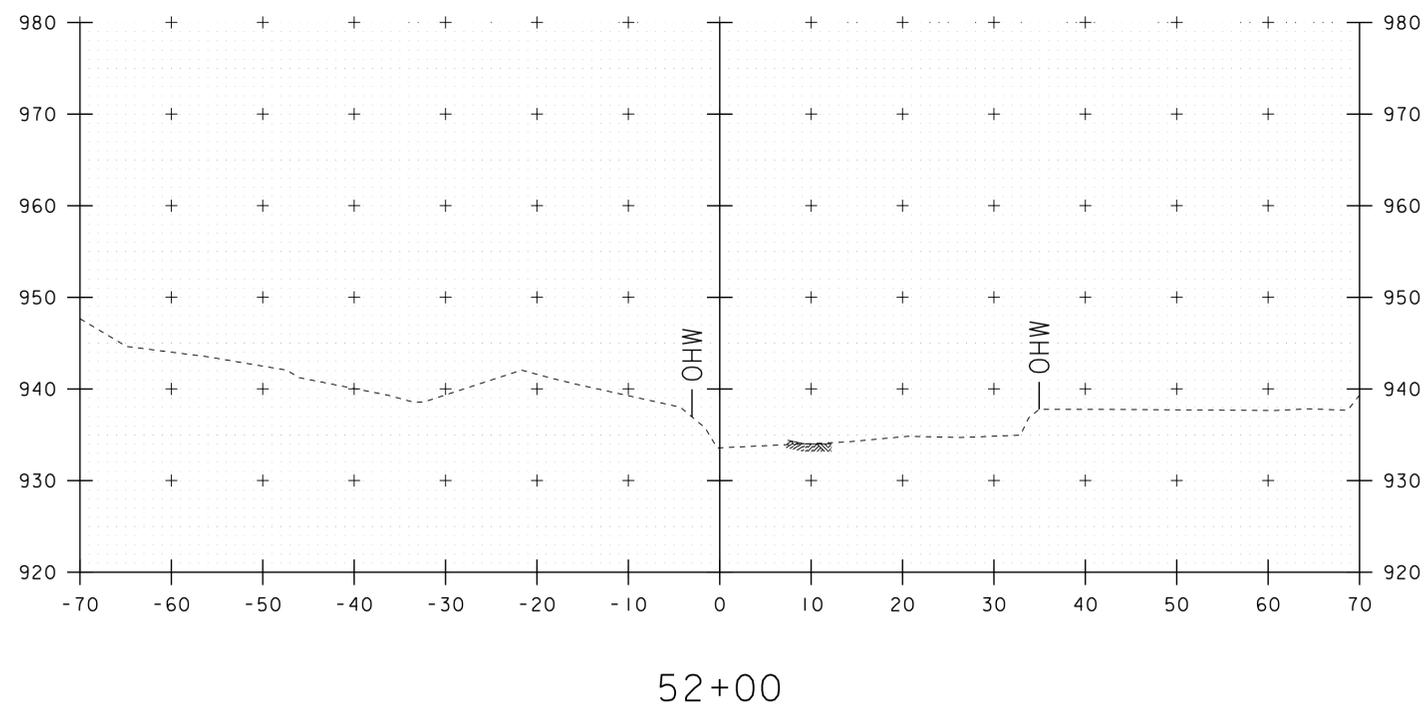
51+60



51+80

STA. 51+60 TO STA. 51+90

<b>PROJECT NAME:</b>	HUNTINGTON	<b>PLOT DATE:</b>	03-JUN-2020
<b>PROJECT NUMBER:</b>	B0 1445(38)	<b>DRAWN BY:</b>	C. FRENCH
<b>FILE NAME:</b>	12j630xs.dgn	<b>DESIGNED BY:</b>	C. FRENCH
<b>PROJECT LEADER:</b>	R. YOUNG	<b>CHECKED BY:</b>	C. MOONEY
<b>CHANNEL CROSS SECTIONS:</b>	5	<b>SHEET</b>	26 <b>OF</b> 28



STA. 52+00 TO STA. 52+00

<b>PROJECT NAME:</b>	HUNTINGTON	<b>PLOT DATE:</b>	03-JUN-2020
<b>PROJECT NUMBER:</b>	BO 1445(38)	<b>DRAWN BY:</b>	C. FRENCH
<b>FILE NAME:</b>	12j630xs.dgn	<b>CHECKED BY:</b>	C. MOONEY
<b>PROJECT LEADER:</b>	R. YOUNG	<b>SHEET</b>	27 <b>OF</b> 28
<b>DESIGNED BY:</b>	C. FRENCH	<b>CHANNEL CROSS SECTIONS</b> 6	

SOIL INFORMATION: MARLOW FINE SANDY LOAM, VERY STONEY  
 K = 0.24, 20-60% SLOPES  
 HYDROLOGIC GROUP: C

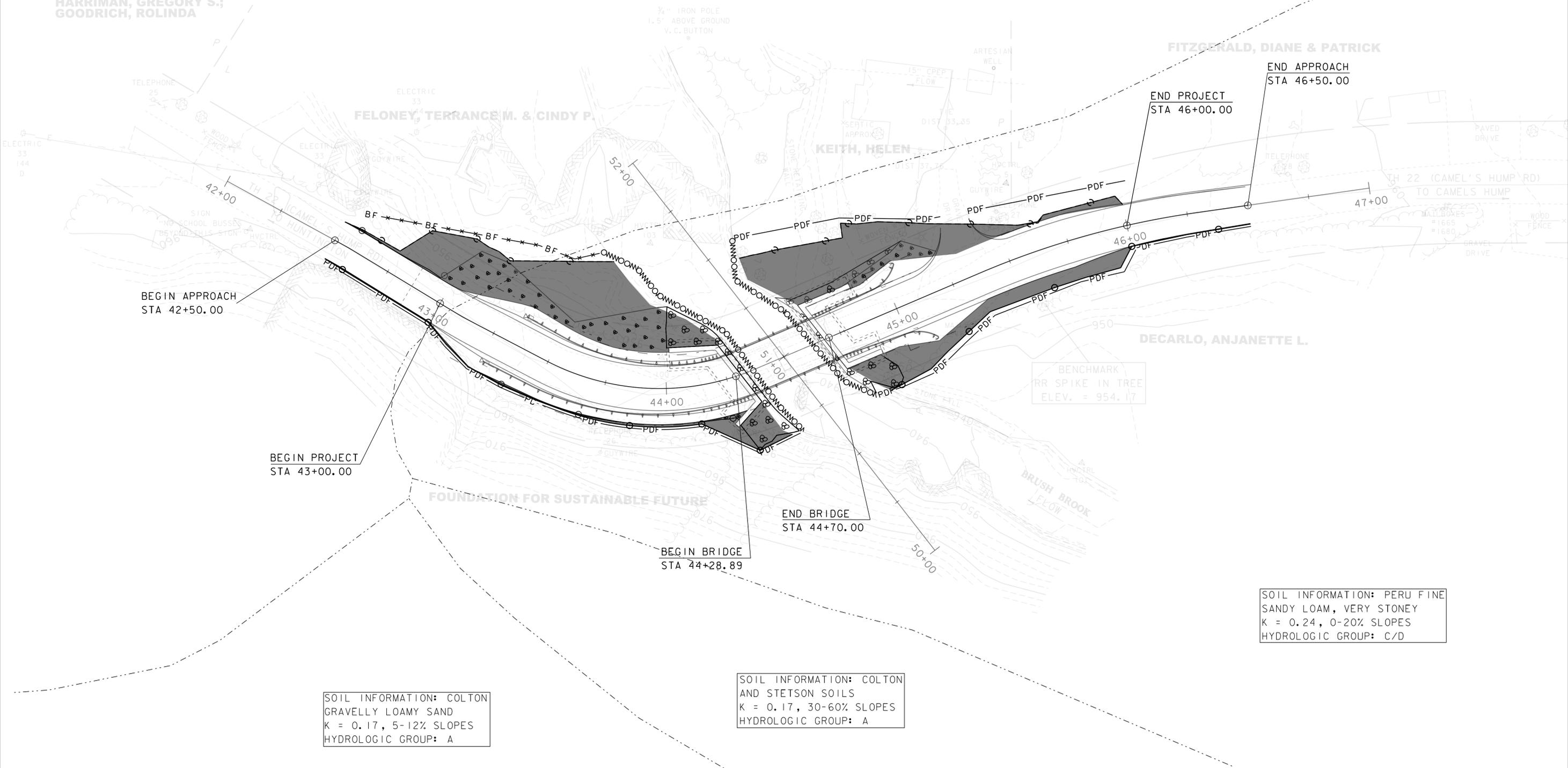
HARRIMAN, GREGORY S.;  
 GOODRICH, ROLINDA

FELONEY, TERRANCE M. & CINDY P.

KEITH, HELEN

FITZGERALD, DIANE & PATRICK

DECARLO, ANJANETTE L.



BEGIN PROJECT  
 STA 43+00.00

BENCHMARK  
 RR SPIKE IN TREE  
 ELEV. = 954.17

SOIL INFORMATION: COLTON  
 GRAVELLY LOAMY SAND  
 K = 0.17, 5-12% SLOPES  
 HYDROLOGIC GROUP: A

SOIL INFORMATION: COLTON  
 AND STETSON SOILS  
 K = 0.17, 30-60% SLOPES  
 HYDROLOGIC GROUP: A

SOIL INFORMATION: PERU FINE SANDY LOAM, VERY STONEY  
 K = 0.24, 0-20% SLOPES  
 HYDROLOGIC GROUP: C/D

EXISTING BRIDGE INFORMATION  
 SINGLE SPAN, BUILT 1925  
 ROLLED BEAM WITH TIMBER DECK  
 45' STRUCTURE LENGTH  
 16'-3" FASCIA TO FASCIA WIDTH

PROJECT NAME: HUNTINGTON	
PROJECT NUMBER: BO 1445(38)	
FILE NAME: sl2j630epsc.dgn	PLOT DATE: 03-JUN-2020
PROJECT LEADER: R. YOUNG	DRAWN BY: C. FRENCH
DESIGNED BY: C. MOONEY	CHECKED BY: -----
RESOURCE SHEET	SHEET 28 OF 28