

PROPOSED IMPROVEMENT

BRIDGE PROJECT

TOWN OF CALAIS COUNTY OF WASHINGTON

CALAIS BHF 037-2(10)

ROUTE NO: VT RTE 14, (RURAL MINOR ARTERIAL)

BRIDGE NO: 74

5.2 MILES NORTH OF JUNCTION WITH US ROUTE 2 PROJECT LOCATION:

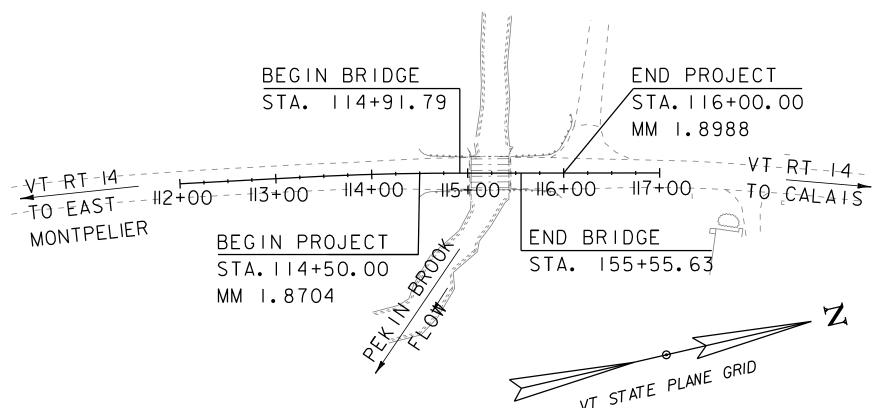
PROJECT DESCRIPTION: REMOVAL AND REPLACEMENT OF BRIDGE #74

WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 63.84 FEET LENGTH OF ROADWAY:

LENGTH OF PROJECT:

86.16 FEET 150.00 FEET



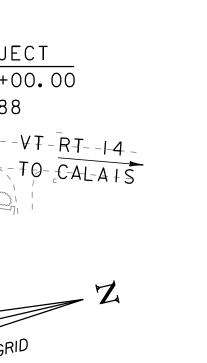
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON APRIL 13, 2018 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS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

QUALITY ASSURANCE PROGRAM : LEVEL 2 SURVEYED BY : R. GILMAN SURVEYED DATE : 05-30-2012 DATUM

VERTICAL

HORIZONTAL

NAVD88 NAD83 (2007)



CALAIS BHF 037-2(12)

ROUTE NO: VT RTE 14, (RURAL MINOR ARTERIAL) BRIDGE NO: 77

PROJECT LOCATION:

7.6 MILES NORTH OF JUNCTION WITH US ROUTE 2

END BRIDGE

STA.236+48.70

END PROJECT

PROJECT DESCRIPTION: REMOVAL AND REPLACEMENT OF BRIDGE #77 SUPERSTRUCTURE WITH RELATED APPROACH

ROADWAY WORK.

200.00 FEET

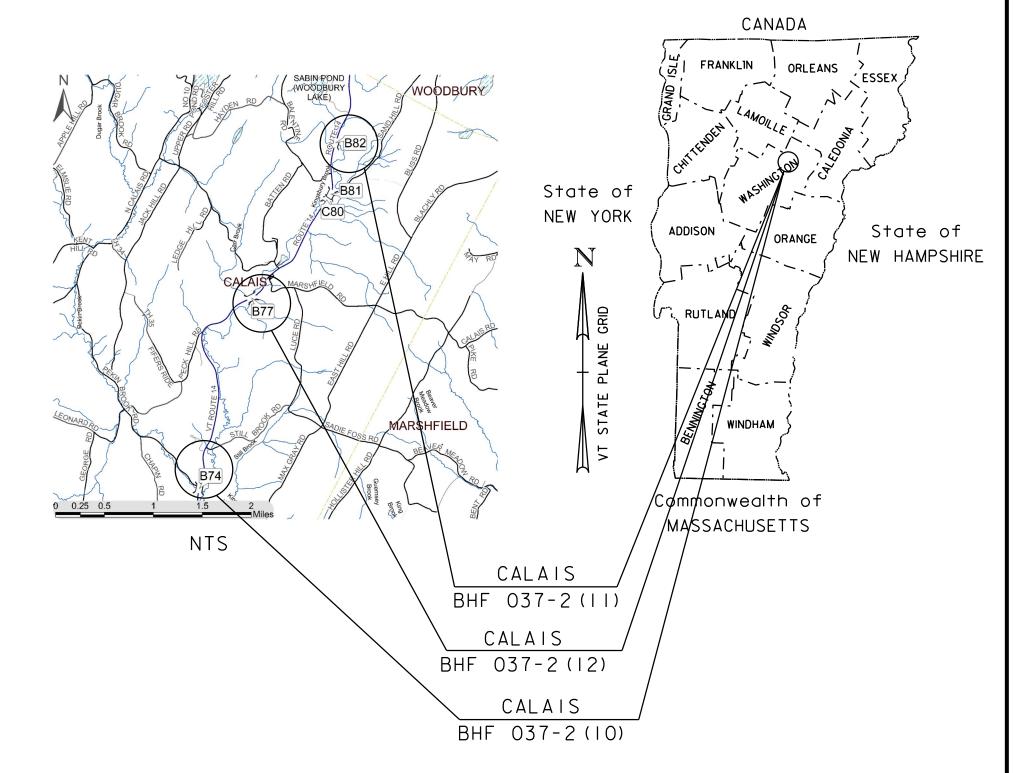
LENGTH OF STRUCTURE: 37.50 FEET LENGTH OF ROADWAY: 162.50 FEET LENGTH OF PROJECT:

> BEGIN BRIDGE STA.236+II.20 BEGIN PROJECT

STA. 237+25.00 STA. 235+25.00 \ MM 4. 1935 XT RT 14 MM 4.1556

VT RT 14 TO EAST MONTPELIER 234+00-235+00-236+00 237+00=238+00-

SCALE I'' = 100' - 0''



CALAIS BHF 037-2 (11) ROUTE NO: VT RTE 14, (RURAL MINOR ARTERIAL) BRIDGE NO: BRIDGE 82

PROJECT LOCATION: 9.40 MILES NORTH OF JUNCTION WITH US ROUTE 2

PROJECT DESCRIPTION: REMOVAL AND REPLACEMENT OF BRIDGE #82 WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

LENGTH OF STRUCTURE: 58.85 FEET LENGTH OF ROADWAY: 466.15 FEET LENGTH OF PROJECT: 525.00 FEET

BEGIN BRIDGE BEGIN PROJECT STA 334+75.00 STA 337+08.40 (MM 6.042)

END BRIDGE STA 337+67.25

END PROJECT STA 340+00.00 (MM 6.142)

334+00-335+00-336+00-337+00-338+00-339+00-340+00 VT RT 14 TO EAST CALAIS VT RT 14 TO SOUTH WOODBURY

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATOR _ DATE _ APPROVED ___ HIGHWAY DIVISION, CHIEF ENGINEER APPROVED ____ __ DATE _ PROJECT MANAGER: G. LAROCHE P.E. PROJECT NAME : CALAIS PROJECT NUMBER : BHF 037-2(10)

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BHF 037-2(10) BRIDGE 74

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BHF 037-2(12) BRIDGE 77

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124	REINFORCING STEEL SCHEDULE
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COMPOSITE DETAILS

DETAIL SHEETS

SD-501.00	CONCRETE DETAILS AND NOTES	2/9/2012
SD-502.00	CONCRETE DETAILS AND NOTES	10/10/2012
SD-516.10	BRIDGE JOINT ASHPALTIC PLUG	8/29/2011
SD-601.00	STRUCTURAL STEEL DETAILS AND NOTES	6/4/2010
SD-602.00	STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	5/2/2011
HSD-400.01	SAFETY EDGE DETAILS	1/5/2018
HSD-621.06	GUARDRAIL TERMINAL LABEL DETAIL	2/27/2017

STANDARDS LIST

B-5	SLOPE GRADING, EMBANKMENTS, MUCK	06-01-1994
D-4	VARIOUS DRAINAGE DETAILS	08-13-2007
D-30	UNDERDRAIN CONSTRUCTION DETAILS	08-13-2007
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-1995
E-136B	STATE ROUTE MARKER SIGN DETAILS	08-08-1995
E-193	PAVEMENT MARKING DETAILS	08-18-1995
G-1Bm	BOX BEAM GUARD RAIL	06-13-1997
G-19	GENERIC GRADING PLANS FOR GUARDRAIL END TERMINALS	11-15-2002
J-3	MAIL BOX SUPPORT DETAILS	08-07-1995
S-364A	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
S-364B	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
S-364C	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
S-364D	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	02-02-2017
T-1	TRAFFIC CONTROL GENERAL NOTES	04-25-2016
T-2	TRAFFIC SIGN GENERAL NOTES	04-25-2016
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
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T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
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T-35	CONSTRUCTION ZONE LONGITUDINAL DROP-OFFS	08-06-2012
T-40	DELINEATORS AND MILEPOSTS	01-02-2013
T-42	BRIDGE NUMBER PLAQUE	04-09-2014
T-45	SQUARE TUBE SIGN POST AND ANCHOR	01-02-2013
T-70	VERMONT REGULATORY SIGN DETAILS	04-25-2016

PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(10) & (12) & (11)

FILE NAME: sl2bl44compindex
PROJECT LEADER: G. LAROCHE
DESIGNED BY: F.BARROWS
INDEX OF SHEETS

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: F.BARROWS
SHEET 2 OF 134

GENERAL

- 1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION 2018 STANDARD SPECIFICATIONS FOR CONSTRUCTION, THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th EDITION, AND THEIR LATEST REVISIONS.
- 2. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL OR VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT. UNLESS NOTED OTHERWISE.
- 3. THE CONTRACTOR SHALL PROVIDE A SITE-SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL PLAN IN ACCORDANCE WITH SECTION 653 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. ESTIMATED QUANTITIES FOR EPSC WORK HAVE BEEN INCLUDED IN THE CONTRACT FOR BIDDING PURPOSES. IF THE CONTRACTOR'S EPSC PLAN REQUIRES ITEMS OF WORK THAT ARE NOT INCLUDED IN THE PLANS. THE EXTRA WORK WILL BE PAID FOR AS PART OF ITEM 653.03 MAINTENANCE OF EPSC PLAN.

CONCRETE AND REINFORCING STEEL

- 4. WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE BOTTOM FACES OF THE SUPERSTRUCTURE BETWEEN DRIP NOTCHES. PAYMENT FOR SILANE WILL BE MADE UNDER ITEM 514.10 "WATER REPELLENT. SILANE".
- 5. PROVIDE REINFORCING AND MECHANICAL COUPLERS FOR TESTING IN ACCORDANCE WITH THE "VERMONT AGENCY OF TRANSPORTATION MATERIALS SAMPLING MANUAL".

TEMPORARY ROADWAY AND TRAFFIC CONTROL

- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, SUBMITTAL, AND IMPLEMENTATION OF SITE-SPECIFIC TRAFFIC CONTROL PLAN. THE SITE-SPECIFIC TRAFFIC CONTROL PLAN SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 641.
- THE CONTRACTOR'S SITE-SPECIFIC TRAFFIC CONTROL PLAN SHALL MEET THE SPECIFIED DIMENSIONS
 HEREIN. REFERENCE PHASE 1 LAYOUT, PHASE 2 LAYOUT, AND PHASING TYPICAL SECTIONS FOR
 ADDITIONAL DETAILS AND REQUIREMENTS.
- 8. ANY REMOVAL, COVERING AND/OR RESETTING OF EXISTING TRAFFIC SIGNS, AS DEEMED NECESSARY BY THE RESIDENT ENGINEER, WILL BE INCIDENTAL TO THE ITEM 641.11 -- TRAFFIC CONTROL, ALL-INCLUSIVE.
- 9. ANY TEMPORARY MEANS OF SUPPORTING EXCAVATION NECESSARY TO MAINTAIN TRAFFIC WILL BE INCLUDED IN THE PAYMENT OF ITEM 641.11 TRAFFIC CONTROL, ALL-INCLUSIVE. CONSTRUCTION DRAWINGS SHALL BE REQUIRED AS PER SUBSECTION 105.03.

TEMPORARY TRAFFIC SIGNALS

- 10. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION'S (VTrans) "STANDARD SPECIFICATIONS FOR CONSTRUCTION", DATED 2018, WITH CURRENT MODIFICATIONS.SIGNAL TIMING/TIMING ADJUSTMENTS SHALL BE ACCOMPLISHED WITHIN A 48 HOUR PERIOD AND PAYMENT WILL BE INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".
- 11. TEMPORARY TRAFFIC SIGNAL SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM" AND IN COMPLIANCE WITH THE LATEST EDITION OF THE MUTCD.
- 12. SIGNAL FACES SHALL BE LED AND CONSIST OF 12 INCH LENSES (RED, YELLOW AND GREEN).
- 13. THE BOTTOM OF THE HOUSING OF A SIGNAL FACE SUSPENDED OVER A ROADWAY SHALL NOT BE LESS THAN 16.5 FEET NOR MORE THAN 19.0 FEET ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY. THE BOTTOM OF A SIGNAL FACE NOT MOUNTED OVER A ROADWAY SHALL NOT BE LESS THAN 8.0 FEET NOR MORE THAN 15.0 FEET ABOVE THE GROUND. CAUTION SHOULD BE USED TO ENSURE COMPLIANCE WITH THE HEIGHT REQUIREMENT IN THE EVENT THE NEW APPROACH GRADE DIFFER SIGNIFICANTLY FROM THE FULL ROADWAY GRADE.
- 14. SIGNAL FACES FOR ANY ONE APPROACH SHALL NOT BE LESS THAN 8 FEET APART MEASURED HORIZONTALLY BETWEEN CENTER FACES.
- 15. THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING SPAN WIRE OR CANTILEVER MAST ARM TRAFFIC SIGNALS IN PLACE OF A PORTABLE SIGNAL SYSTEM. DESIGN OF SUCH SYSTEM, INCLUDING REQUIRED POLE LOCATIONS, ANY REQUIRED GUYING, AND POWER CONNECTION SHALL BE THE RESPONSIBLITY OF THE CONTRACTOR. PAYMENT WILL BE CONSIDERED INCIDENTAL TO 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".
- 16. SIGNAL HEAD PLACEMENT IS CRITICAL. HEADS SHALL BE ADJUSTED TO REFLECT LANE LOCATION CHANGES AS REQUIRED.
- 17. POLES SUPPORTING SPAN WIRES AND/OR MAST ARMS SHALL BE ADEQUATELY BRACED OR GUYED AND SHALL BE PLACED SO AS NOT TO CREATE A HAZARD TO THE TRAVELLING PUBLIC.
- 18. LUMINAIRES SHALL BE INSTALLED AT EACH OF THE APPROACHES TO ADEQUATELY LIGHT THE STOP BAR AREAS. HIGH PRESSURE SODIUM OR LED LUMINAIRES ARE ACCEPTABLE FORMS OF LAMPS. THE MOUNTING HEIGHT FOR LUMINAIRES SHALL BE DETERMINED BY THE CONTRACTOR. ILLUMINANCE SHALL BE MEASURED AT NIGHTTIME AFTER INSTALLATION AT EACH STOP BAR. ILLUMINANCE SHALL BE NO LESS THAN 1.0 FOOT-CANDLES AND NOT TO EXCEED 2.0 FOOT-CANDLES. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".

- 19. ALL TEMPORARY SIGNAL EQUIPMENT, SIGNS, ETC. SHALL BELONG TO THE CONTRACTOR AT THE END OF THE PROJECT AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR REMOVAL INCLUDING UTILITY POLES, WIRES, ETC. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".
- 20. STOP BARS SHALL BE LOCATED A MINIMUM OF 40' AND A MAXIMUM OF 120' FROM THE NEAREST SIGNAL HEAD.
- 21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SIGNAL PHASING AND TIMING. THE CONTRACTOR SHALL SUBMIT A PHASING DIAGRAM AND TIMING SCHEDULE TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL MAKE THE SIGNALS OPERATIONAL ONLY AFTER RECEIVING APPROVAL OF BOTH THE PHASING DIAGRAM AND TIMING SCHEDULE BY THE ENGINEER. DEVELOPMENT OF THE PHASING DIAGRAM AND TIMING SCHEDULE WILL BE CONSIDERED INCIDENTAL TO ITEM 678.40 "TEMPORARY TRAFFIC SIGNAL SYSTEM".

PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(10) & (12) & (11)

FILE NAME: sI2bI44compIndex
PROJECT LEADER: G. LAROCHE
DESIGNED BY: S. COLEY
COMBINED PROJECT NOTES

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: F.BARROWS
SHEET 3 OF 134

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.

D O W ADDDEVIATIONS (CODES) & SYMPOIS

R. O. W.	ABBREV	TIATIONS (CODES) & SYMBOLS
POINT	CODE	DESCRIPTION
	BF CH CONST CUL D&C DIT DR DRIVE EC HWY I&M LAND PDF R&RES R&REP R.T.&I. SR UE	BARRIER FENCE CHANNEL EASEMENT CONSTRUCTION EASEMENT CULVERT EASEMENT DISCONNECT & CONNECT DITCH EASEMENT DRAINAGE EASEMENT DRIVEWAY EASEMENT EROSION CONTROL
□ ⊚ M O [LENG	BNDNS BNDNS IPNF IPNS CALC PROW TH]	BOUND SET BOUND TO BE SET IRON PIN FOUND IRON PIN TO BE SET EXISTING ROW POINT PROPOSED ROW POINT LENGTH CARRIED ON NEXT SHEET

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
4.5	APL	BOUND APPARENT LOCATION
•	ВМ	BENCHMARK
•	BND	BOUND
	СВ	CATCH BASIN
ø	COMB	COMBINATION POLE
	DITHR	DROP INLET THROATED DNC
Ċ	EL	ELECTRIC POWER POLE
•	FPOLE	FLAGPOLE
\odot	GASFIL	GAS FILLER
\odot	GP	GUIDE POST
×	GS0	GAS SHUT OFF
0	GUY	GUY POLE
0	GUYW	GUY WIRE
M	GV	GATE VALVE
	Н	TREE HARDWOOD
Δ	HCTRL	CONTROL HORIZONTAL
\triangle	HVCTRL	CONTROL HORIZ. & VERTICAL
\Diamond	HYD	HYDRANT
@	IP	IRON PIN
⊚	IPIPE	IRON PIPE
,	LI	LIGHT - STREET OR YARD
\$	MB	MAILBOX
0	MH	MANHOLE (MH)
•	MM	MILE MARKER
⊖	PM	PARKING METER
•	PMK	PROJECT MARKER
⊙	POST	POST STONE/WOOD
7.7	RRSIG	RAILROAD SIGNAL
↔	RRSL	RAILROAD SWITCH LEVER
	S	TREE SOFTWOOD
≣"″ ⊙	SAT	SATELLITE DISH
	SHRUB	SHRUB
0	SIGN	SIGN
A	STUMP	STUMP
-O-	TEL	TELEPHONE POLE
⊙	TIE	TIE
0.0	TSIGN	SIGN W/DOUBLE POST
<u></u>	VCTRL	CONTROL VERTICAL
•	WELL	
		WELL WATED SHIT OFF
M	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

1 1101 031	LD GLOWLINI 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
АН	AHEAD STATION SUFFIX
ВК	BACK STATION SUFFIX
D	CURVE DEGREE OF (IOOFT)
R	CURVE RADIUS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE
СВ	CHORD BEARING

<u>underground</u> utili	
	UTILITY (GENERIC-UNKNOWN)
	TELEPHONE
	ELECTRIC
	CABLE (TV)
	ELECTRIC+CABLE
— UET — · · -	ELECTRIC+TELEPHONE
	CABLE+TELEPHONE
	ELECTRIC+CABLE+TELEPHONE
	GAS LINE
— w —	WATER LINE
— s — · · · · -	SANITARY SEWER (SEPTIC)
ABOVE GROUND UTIL	ITIES (AERIAL)
	UTILITY (GENERIC-UNKNOWN)
	TELEPHONE
— в — … – … –	ELECTRIC
c · · - · · -	CABLE (TV)
— EC — ·· -	ELECTRIC+CABLE
— ET — · · - · · -	
— AER E&T — · · — ·	ELECTRIC+TELEPHONE
— ct — · ·	CABLE+TELEPHONE
— ECT — · · · -	ELECTRIC+CABLE+TELEPHONE
· · · · · ·	UTILITY POLE GUY WIRE
PROJECT CONSTRUCT	TION SYMBOLOGY
	LAYOUT SYMBOLOGY
— — CZ — —	
	PLAN LAYOUT MATCHLINE
	. L L
PROJECT CONSTRUCT	IIUN FEAIUKES

89 89 89 89 STONE FILL ----- BOTTOM OF DITCH € ======== CULVERT PROPOSED ----- STRUCTURE SUBSURFACE PDF — PDF — PROJECT DEMARCATION FENCE BF -x -x BF -x -x BARRIER FENCE

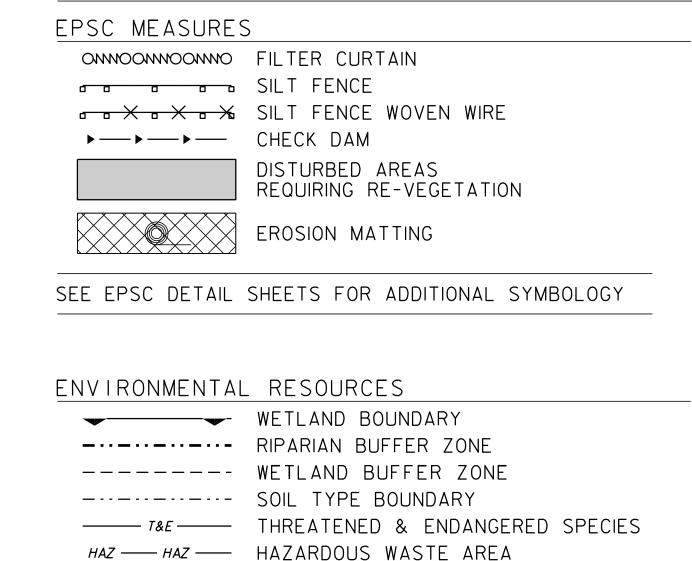
////////////// STRIPING LINE REMOVAL

CONVENTIONAL BOUNDARY SYMBOLOGY

SHEET PILES

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
<u> </u>	PERMANENT EASEMENT LINE (P)
	TEMPORARY EASEMENT LINE (T)
+ + + + + + + + + + + + + + + + + + + +	SURVEY LINE
$\frac{P}{L}$ $\frac{P}{L}$ $\frac{P}{L}$	PROPERTY LINE (P/L)
SR SR SR SR →	SLOPE RIGHTS
6f ————————————————————————————————————	6F PROPERTY BOUNDARY
4f 4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY



ARCHEOLOGICAL & HISTORIC

— FLOOD PLAIN — FLOOD PLAIN

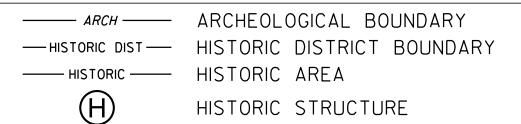
→ STORM WATER

------ AG------ AGRICULTURAL LAND

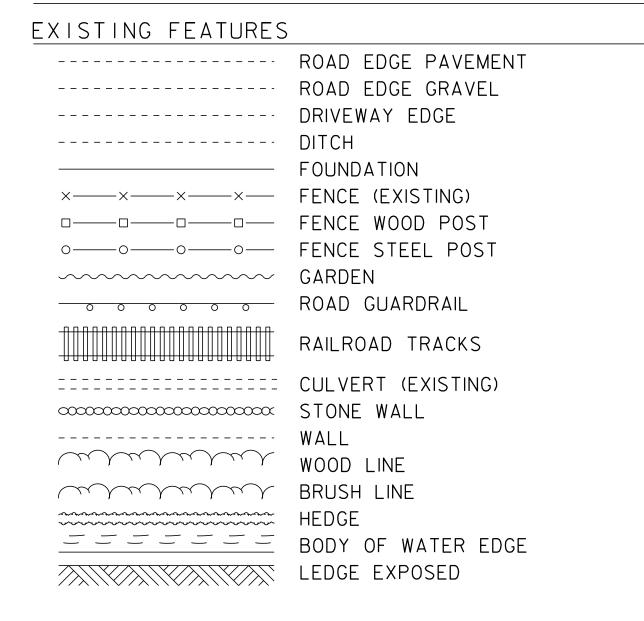
----- HABITAT ----- FISH & WILDLIFE HABITAT

— – – USDA FOREST SERVICE LANDS

— · · — · · WILDLIFE HABITAT SUIT/CONN



CONVENTIONAL TOPOGRAPHIC SYMBOLOGY



PROJECT NAME: CALAS PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl46lgnd.dgn PROJECT LEADER: W.PELLETIER DESIGNED BY: F.BARROWS

LEGEND SHEET

PLOT DATE: 02-JUN-2020 DRAWN BY: G. LAROCHE CHECKED BY: F.BARROWS SHEET 4 OF 134





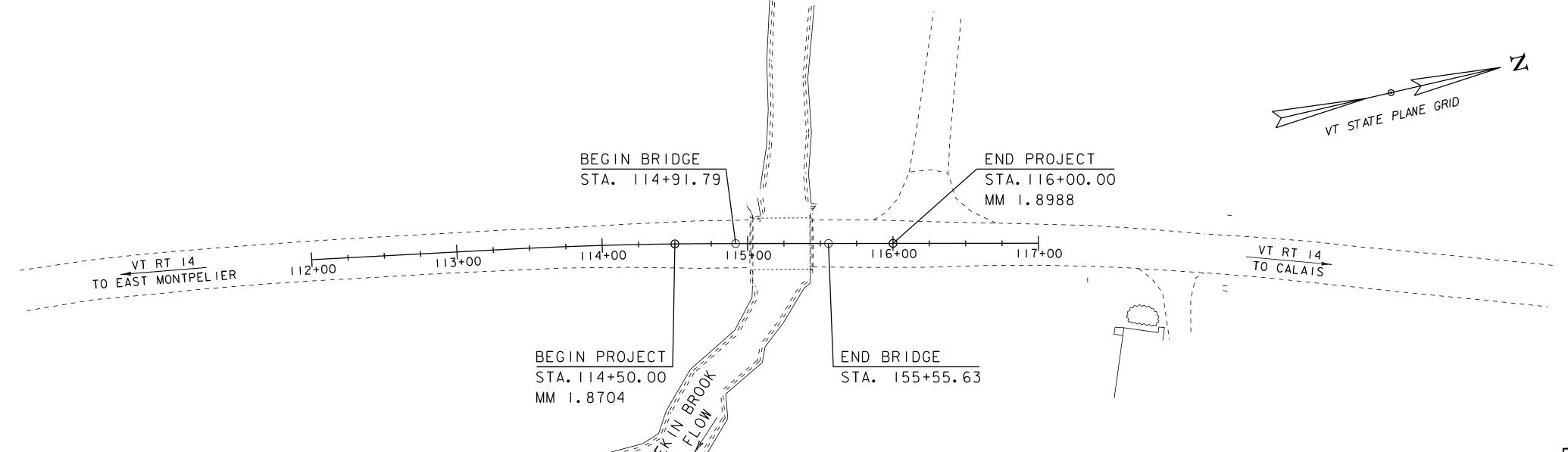
TOWN OF CALAIS COUNTY OF WASHINGTON

ROUTE NO: VT RTE 14, RURAL MINOR ARTERIAL BRIDGE NO: 74

PROJECT LOCATION: 5.20 MILES NORTH OF JUNCTION WITH US ROUTE 2

PROJECT DESCRIPTION: REMOVAL AND REPLACEMENT OF BRIDGE #74 WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.

63.84 FEET LENGTH OF STRUCTURE: LENGTH OF ROADWAY: 86.16 FEET 150.00 FEET LENGTH OF PROJECT:



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

QUALITY ASSURANCE PROGRAM : LEVEL 2

SURVEYED BY : R. GILMAN SURVEYED DATE : 05-30-2012

DATUM

VERTICAL HORIZONTAL

NAVD88 NAD83 (2007)

HIGHWAY DIVISION, CHIEF ENGINEER APPROVED __ _ DATE _ PROJECT MANAGER : G. LAROCHE P.E. PROJECT NAME : CALAIS PROJECT NUMBER : BHF 037-2(10)

CANADA

Commonwealth of

MASSACHUSETTS

NEW HAMPSHIRE

State of NEW YORK

CALAIS BHF 037-2 (10)

SHEET 5 OF 134 SHEETS

DESIGNED BY: S. COLEY

PRELIMINARY INFORMATION SHEET

CHECKED BY: G. LAROCHE

SHEET 6 OF 134

STATE OF VERMONT AGENCY OF TRANSPORTATION

2035

3500

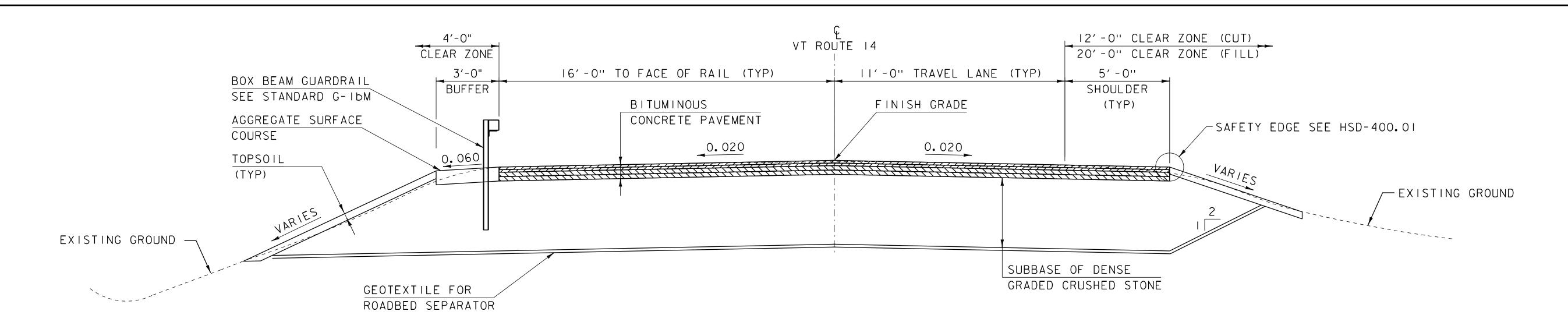
PRELIMINARY INFORMATION SHEET (BRIDGE)

LRFD

INDEX OF SHEETS FINAL HYDRAULIC REPORT **PLAN SHEETS** STANDARDS LIST PROPOSED STRUCTURE HYDROLOGIC DATA Date: April 2014 DRAINAGE AREA: 22.6 sq. mi. STRUCTURE TYPE: Single Span Steel Bridge CHARACTER OF TERRAIN: Mostly hilly and forested SEE COMBINED PRELIMINARY INFORMATION SHEET FOR CALAIS IO INDEX STREAM CHARACTERISTICS: Incised and alluvial CLEAR SPAN(NORMAL TO STREAM): NATURE OF STREAMBED : Silt and very fine sand **VERTICAL CLEARANCE ABOVE STREAMBED:** WATERWAY OF FULL OPENING: 240 sq. ft. PEAK FLOW DATA WATER SURFACE ELEVATIONS AT: Q 2.33 = 525 cfs Q 50 = 2010 cfs Q 10 = 1200 cfs Q 100 = 2400 cfs Q2.33 = 711.6' VELOCITY = 5.9 fps Q 25 = 1620 cfs Q 500 = 3360 cfs 8.8 fps 10.2 fps DATE OF FLOOD OF RECORD : Unknown ESTIMATED DISCHARGE: Q100 = 717.8'WATER SURFACE ELEV.: Unknown NATURAL STREAM VELOCITY: @ Q50 = 10.8 fps IS THE ROADWAY OVERTOPPED BELOW Q100: Yes ICE CONDITIONS: FREQUENCY: Just below Q100 Slight to moderate RELIEF ELEVATION: 717.7' DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. RAPIDLY? No DISCHARGE OVER ROAD @Q100: 15 cfs IS ORDINARY RISE RAPID? No IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CONDITIONS? No AVERAGE LOW ELEVATION OF SUPERSTRUCTURE: 714.8' IF YES, DESCRIBE: VERTICAL CLEARANCE: @ Q50 = -1.9' Contraction scour at Q200 = 11' WATERSHED STORAGE: **HEADWATERS:** REQUIRED CHANNEL PROTECTION: Stone Fill Type III **IMMEDIATELY ABOVE SITE:** PERMIT INFORMATION EXISTING STRUCTURE INFORMATION DEPTH OR ELEVATION: AVERAGE DAILY FLOW: 45 cfs STRUCTURE TYPE: Single span concrete t-beam ORDINARY LOW WATER: 20 cfs ORDINARY HIGH WATER: YEAR BUILT: CLEAR SPAN(NORMAL TO STREAM): TEMPORARY BRIDGE REQUIREMENTS VERTICAL CLEARANCE ABOVE STREAMBED: 208 sq. ft. WATERWAY OF FULL OPENING: DISPOSITION OF STRUCTURE: STRUCTURE TYPE: None required - phased construction will be used See boring logs CLEAR SPAN (NORMAL TO STREAM): TYPE OF MATERIAL UNDER SUBSTRUCTURE: VERTICAL CLEARANCE ABOVE STREAMBED: WATERWAY AREA OF FULL OPENING: WATER SURFACE ELEVATIONS AT: VELOCITY = 5.9 fps **ADDITIONAL INFORMATION** Q2.33 =Q10 = Q25 =716.1' Q50 = 717.4' 11.0 fps Q100 =718.1' 11.6 fps LONG TERM STREAMBED CHANGES: TRAFFIC MAINTENANCE NOTES 1. PHASE 1: MAINTAIN ONE WAY TRAFFIC ON THE EXISTING STRUCTURE 2 PHASE 2: MAINTIAN ONE WAY TRAFFIC ON PROPOSED STRUCTURE 3. MAINTENANCE OF PEDESTRIAN FACILITIES IS NOT REQUIRED. IS THE ROADWAY OVERTOPPED BELOW Q100: RELIEF ELEVATION: 717.5' **DESIGN VALUES** DISCHARGE OVER ROAD @Q100: 115 cfs HL-93 1. DESIGN LIVE LOAD **d**p: 0.0 INCH UPSTREAM STRUCTURE 2. FUTURE PAVEMENT 3. DESIGN SPAN *L:* 61.83 FT DISTANCE: TOWN: Calais STRUCTURE #: 4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS) HIGHWAY #: CLEAR SPAN: CLEAR HEIGHT: 5. PRESTRESSING STRAND FULL WATERWAY: YEAR BUILT: 6. PRESTRESSED CONCRETE STRENGTH STRUCTURE TYPE: CGMPPA 7. PRESTRESSED CONCRETE RELEASE STRENGTH 8. SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, CLASS A) **f**'c: 4.0 KSI DOWNSTREAM STRUCTURE 9. SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, CLASS B) f'c: 3.5 KSI 10. CONCRETE HIGH PERFORMANCE, CLASS PSS **f**'c: 4.0 KSI DISTANCE: 11. CONCRETE, CLASS C **f**'c: 3.0 KSI TOWN: **f**y: 60 KSI STRUCTURE #: HIGHWAY #: 12. REINFORCING STEEL **f**y: 50 KSI **CLEAR SPAN:** CLEAR HEIGHT: 13. STRUCTURAL STEEL AASHTO M270 (GALVANIZED) FULL WATERWAY: YEAR BUILT: STRUCTURE TYPE: Confluence with Kingsbury Branch 14. NOMINAL BEARING RESISTANCE OF SOIL 15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) 16. NOMINAL BEARING RESISTANCE OF ROCK LRFR LOAD RATING FACTORS 17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) TRUCK LOADING LEVELS 3S2 6 AXLE 3A. STR. 4A. STR. 5A. SEMI 18. PILE RESISTANCE FACTOR φ: 0.65 19. LATERAL PILE DEFLECTION 30 34.5 38 TONNAGE 20 36 36 Δ: - - -20. BASIC WIND SPEED **V**3s: ---**INVENTORY** 2.57 1.36 21. MINIMUM GROUND SNOW LOAD POSTING 22. SEISMIC DATA **S**s: ---**OPERATING** 1.84 2.37 2.13 2.86 **S**1: ---COMMENTS: 23. NOMINAL AXIAL PILE RESISTANCE 480 KIPS **DESIGN CRITERIA** 24. PILE YIELD STRENGTH 50 KSI 1 SEE GENERAL NOTES 25. PILE SIZE HP 12x84 26. ESTIMATED PILE LENGTH 112 FT PROJECT NAME: CALAIS AS BUILT "REBAR" DETAIL TRAFFIC DATA PROJECT NUMBER: BHF 037-2(10) LEVEL I LEVEL II LEVEL III 20 year ESAL for flexible pavement from 2015 to 2035 : 2411000 YEAR % D % T FILE NAME: PI Sheet Builder BR74.xls PLOT DATE: 02-JUN-2020 2015 390 76 2.4 GRADE: 40 year ESAL for flexible pavement from 2015 to 2055 : 568600 GRADE: GRADE: PROJECT LEADER: G. LAROCHE DRAWN BY: S. COLEY

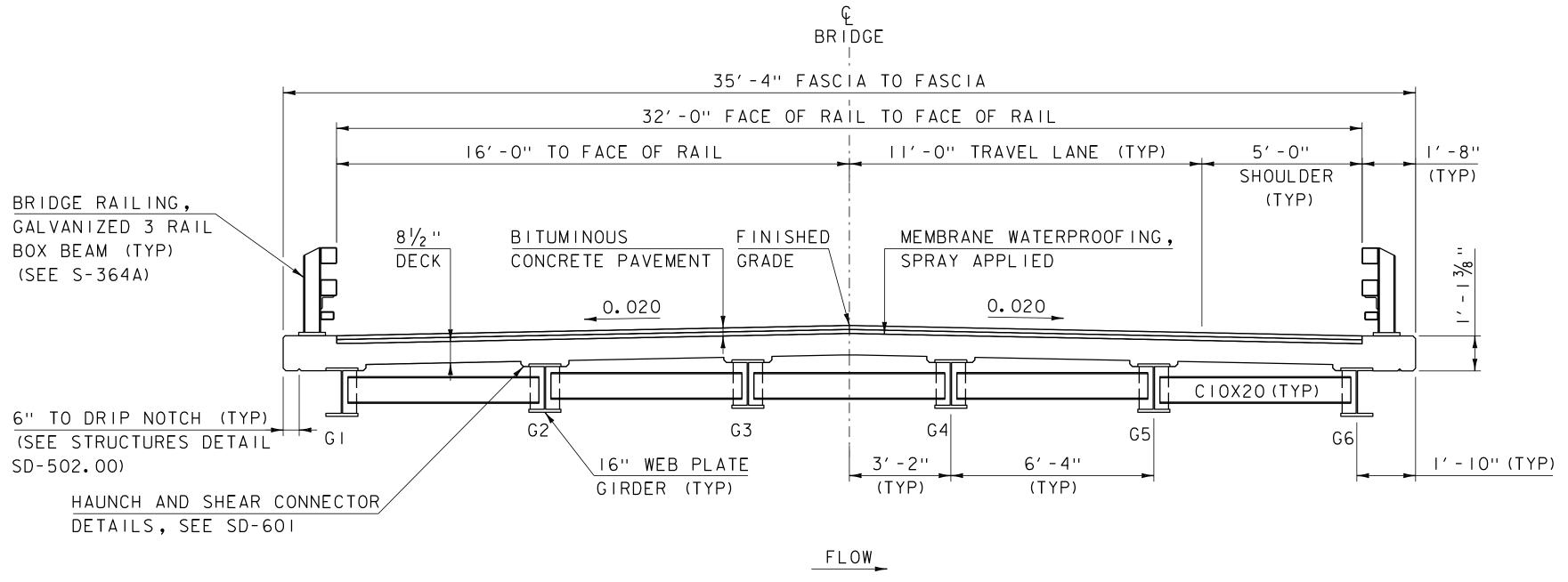
Design Speed: 50 mph

3.2



VT 14 TYPICAL SECTION

(NOT TO SCALE)



ROADWAY MATERIAL REQUIREMENTS

	THICKNESS	DESCRIPTION
BINDER	70-28	PERFORMANCE GRADE ASPHALT BINDER
GYRATION	65	DESIGN NUMBER OF GYRATIONS
WEARING COURSE	l ½ ''	406.36 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IVB)
INTERMEDIATE COURSE	l ½ ''	406.36 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IVB)
BASE COURSE #2	2 1/2 ''	406.35 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)
BASE COURSE #1	2 1/2 ''	406.35 SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)
EMULSIFIED ASPHALT		STANDARD SPECIFICATIONS TABLE 406.12A
BUFFER	8''	AGGREGATE SURFACE COURSE (MATCH PAVE THICK)
SUBBASE	40''	SUBBASE OF DENSE GRADED CRUSHED STONE
TOPSOIL	4''	TOPSOIL

PROPOSED BRIDGE TYPICAL SECTION

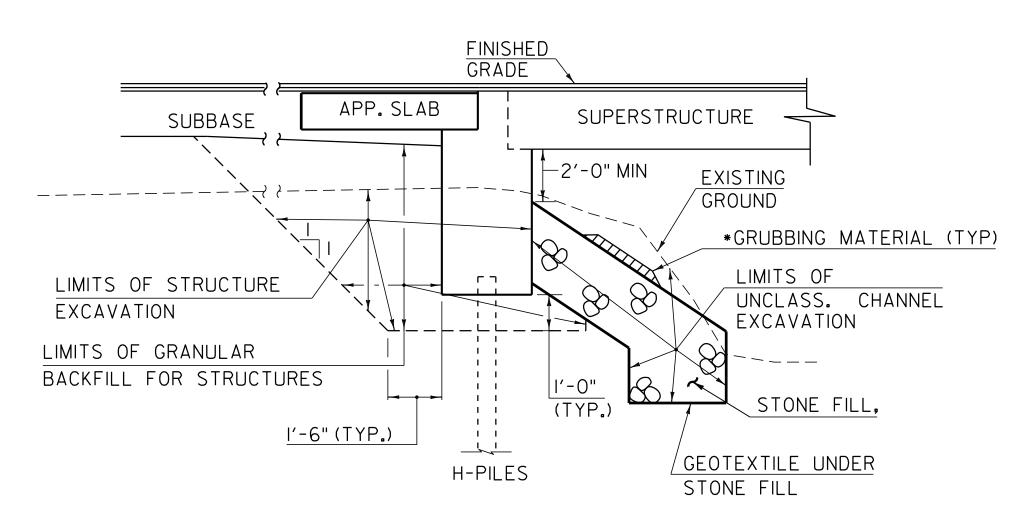
(NOT TO SCALE)

MATERIAL_TOLERAN	CES_
(IF USED ON PROJECT)	
SURFACE	
- PAVEMENT (TOTAL THICKNESS)	+/- 1/4"
- AGGREGATE SURFACE COURSE	+/- 1/2"
SUBBASE	+/- "
SAND BORROWS	+/- "

SHEET 7 OF 134

PROJECT NAME:	CALAIS	
PROJECT NUMBER:	BHF 037-2(10)	
FILE NAME: s12b144	typ.dgn	PLOT DATE: 02-JUN-2020
PROJECT LEADER:	G.L AROCHE	DRAWN BY: S. COLEY
DESIGNED BY:	G. LAROCHE	CHECKED BY: G. LAROCHE

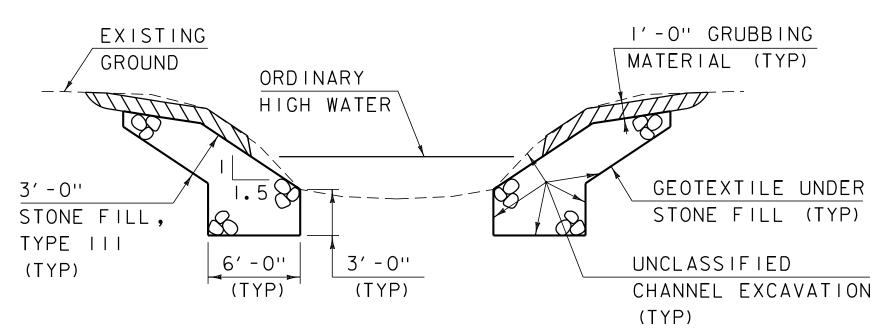
TYPICAL SECTIONS I



TYPICAL ABUTMENT SECTION

(NOT TO SCALE)

*STONE FILL/GRUBBING SLOPE VARIES, SEE CHANNEL CROSS SECTIONS.



TYPICAL CHANNEL SECTION (NOT TO SCALE)

- I) WHENEVER CHANNEL SLOPE INTERSECTS ROADWAY SUBBASE, GRUBBING MATERIAL SHALL BEGIN AT THE BOTTOM OF SUBBASE.
- QRUBBING MATERIAL SHALL BE PLACED UNDERNEATH STRUCTURES WHERE THERE IS MORE THAN 6 FEET VERTICALLY FROM ORDINARY HIGH WATER (OHW) TO THE BOTTOM OF SUPERSTRUCTURE AND MORE THAN 6 FEET HORIZONTALLY FROM OHW LINE TO FRONT FACE OF ABUTMENT. THIS MATERIAL SHALL START JUST ABOVE THE OHW ELEVATION AND TERMINATE 3 FEET HORIZONTALLY FROM THE FRONT FACE OF THE ABUTMENT. THIS MATERIAL SHALL NOT BE PLACED IN AREAS THAT WILL SEE CONCENTRATED FLOWS RESULTING FROM SURFACE WATER RUNOFF. GRUBBING MATERIAL MAY BE OMITTED IF LESS THAN 3 FEET IN WIDTH BENEATH A STRUCTURE. SEE THE CHANNEL SECTIONS FOR ADDITIONAL DETAILING.

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44typ.dgn
PROJECT LEADER: G. LAROCHE
DESIGNED BY: G. LAROCHE
TYPICAL SECTIONS 2

PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 8 OF 134

EARTHWORK

1. ITEM 529.15 "REMOVAL OF STRUCTURE" WILL BE USED FOR THE COMPLETE REMOVAL AND DISPOSAL OF THE EXISTING SUPERSTRUCTURE AND SUBSTRUCTURE, INCLUDING ANY PORTION OF THE ABUTMENTS AND WINGWALLS OUTSIDE THE LIMITS OF STRUCTURE EXCAVATION OR UNCLASSIFIED CHANNEL EXCAVATION.

H-PILES

- 2. TO ENSURE THAT THE NOMINAL CAPACITY HAS BEEN ATTAINED AND TO PREVENT THE OVERSTRESSING OF THE PILES DURING DRIVING OPERATIONS, A DYNAMIC PILE TEST SHALL BE CONDUCTED ON THE FIRST PILE DRIVEN AT EACH ABUTMENT. MORE TESTS MAY BE ORDERED BY THE ENGINEER. ADDITIONAL TEST(S) ORDERED BY THE ENGINEER WILL BE PAID FOR AT THE UNIT PRICE BID FOR CONTRACT ITEM 505.45, "DYNAMIC PILE LOADING TEST".
- 3. FOR ESTIMATING PURPOSES, THE PILE TIP ELEVATIONS WERE ASSUMED AS SHOWN ON THE BORING LOGS. THE ACTUAL IN-PLACE LENGTHS MAY VARY BASED ON BEDROCK LOCATION.

STRUCTURAL STEEL

- 4. ALL NEW STRUCTURAL STEEL SHALL BE GALVANIZED OR METALIZED. GALVANIZING OR METALIZING SHALL CONFORM TO THE REQUIREMENTS OF SECTION 506 OF THE STANDARD SPECIFICATIONS.
- 5. GIRDER WEBS AND CROSS FRAMES SHALL BE PLUMB IN FINAL POSITION.
- 6. CHARPY V-NOTCH TEST: TEST STRUCTURAL STEEL MEMBERS DESIGNATED "CVN" IN THE PLANS IN ACCORDANCE WITH SUBSECTION 714.01.
- 7. BOLTS FOR ALL BOLTED FIELD CONNECTIONS SHALL BE 7/8 INCH DIAMETER HIGH STRENGTH BOLTS IN 15/16 INCH DIAMETER HOLES UNLESS OTHERWISE NOTED.
- 8. CONNECTIONS NOT SHOWN IN THE PLANS SHALL BE DETAILED BY THE FABRICATOR IN THE FABRICATION DRAWINGS AND SUBMITTED TO THE RESIDENT ENGINEER FOR APPROVAL.
- 9. AFTER THE SUPERSTRUCTURE STEEL HAS BEEN ERECTED, ELEVATIONS ALONG THE TOP OF GIRDERS SHALL BE TAKEN UNDER DIRECTION OF THE RESIDENT ENGINEER FOR USE IN DETERMINING THE FINAL GRADE AND HAUNCH DEPTHS.
- 10. FLEMING BRACKETS OR SIMILAR FALSE WORK: SPACE FLEMING BRACKETS OR SIMILAR FALSEWORK AS REQUIRED BY DESIGN WITH A MAXIMUM SPACING OF 4'-0" AND SHALL EXTEND AT LEAST 75% OF THE DEPTH OF THE WEB. THE DESIGN OF FALSEWORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 11. HOLES IN WEB: FILL ANY BOLT HOLES IN THE WEBS OF THE BEAMS NOT OTHERWISE FILLED WITH BUTTON HEAD OR HEX HEAD BOLTS MEETING ASTM A 325 TYPE 1, AND SHALL MEET THE REQUIREMENTS OF SUBSECTION 714.05 FOR PAINTED STRUCTURAL COMPONENTS. TIGHTEN THE BOLTS IN ACCORDANCE WITH SUBSECTION 506.19 OF THE STANDARD SPECIFICATIONS.
- 12. THE CONTRACTOR SHALL MAINTAIN A MINIMUM CLEARANCE EQUIVALENT TO THE BACKFILL HEIGHT BETWEEN THE ABUTMENT AND THE CRANE MATS DURING ERECTION OF THE SUPERSTRUCTURE. IF THE CONTRACTOR PROPOSES A CLOSER DISTANCE BETWEEN THE ABUTMENT AND THE CRANE MATS THEN THEY SHALL SUBMIT CALCULATIONS STAMPED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF VERMONT TO THE PROJECT MANAGER FOR APPROVAL. THE CALCULATIONS SHALL SUBSTANTIATE THAT THE PROPOSED CONFIGURATION WILL NOT OVERSTRESS THE PILES OR ROTATE THE ABUTMENT BEYOND 0.01 RADIANS. ALL COSTS ASSOCIATED WITH THIS WORK WILL BE INCLUDED IN THE PAYMENT OF ITEM 506.55, "STRUCTURAL STEEL, PLATE GIRDER".

CONCRETE

- 13. ALL CONCRETE FOR THE BRIDGE DECK, BACKWALLS, AND WINGWALLS ABOVE THE BRIDGE SEAT SHALL BE SPECIAL PROVISION "HIGH PERFORMANCE CONCRETE, CLASS A" AND SHALL BE PAID FOR UNDER ITEM 900.608 SPECIAL PROVISION "HIGH PERFORMANCE CONCRETE, CLASS A".
- 14. ALL CONCRETE FOR THE SUBSTRUCTURE BELOW THE BRIDGE SEAT AND APPROACH SLABS SHALL BE SPECIAL PROVISION "HIGH PERFORMANCE CONCRETE, CLASS B" AND SHALL BE PAID FOR UNDER ITEM 900.608 SPECIAL PROVISION "HIGH PERFORMANCE CONCRETE, CLASS B".
- 15. ITEM 520.10, 'MEMBRANE WATERPROOFING, SPRAY APPLIED" SHALL BE APPLIED TO THE BRIDGE DECK AS PER THE MANUFACTURER'S INSTRUCTIONS AND EXTEND ONTO THE APPROACH SLABS 2 FEET BEYOND THE BEING/END BRIDGE
- 16. ALL MECHANICAL CONNECTORS IN THE DECK AND ABOVE THE BRIDGE SEAT IN THE SUBSTRUCTURE SHALL BE LEVEL 2, BELOW THE BRIDGE SEAT IN THE SUBSTRUCTURE AND IN THE APPRAOCH SLABS SHALL BE LEVEL 1 (EPOXY COATED). ALL MECHANICAL BAR CONNECTORS SHALL BE PAID FOR UNDER ITEM 507.19 MECHANICAL BAR CONNECTORS.

PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44gennotes.dgn
PROJECT LEADER: G. LAROCHE
DESIGNED BY: G. ROKES
PROJECT NOTES (10)

PLOT DATE: 02-JUN-2020
DRAWN BY: G. ROKES
CHECKED BY: G. LAROCHE
SHEET 9 OF 134

QUANTITY SHEET 1

	SUMI	MARY OF ESTIN	MATED QUAN	ITITIES				тот	TALS		DESCRIPTIONS			DETAILED SUMMARY OF QUANTITIES		
			ROADWAY	TRAINING	EROSION CONTROL	BRIDGE	FULL C.E.	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER ROUND	QUANTITIES UNIT	ITEMS		
			1					1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS (CALAIS (10))	201.10		EARTHWORKS SUMMARY		
			1275					1275		CY	COMMON EXCAVATION	203.15	765 CY	FILL AVAILABLE COMMON EXCAVATION (1275 x 0.6)		
						490		490		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27	147 CY 105 CY	UNCLASSIFIED CHANNEL EXCAVATION (490 x 0.3) STRUCTURE EXCAVATION (350 x 0.3)		
			1					1		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	3 CY	ROUNDING		
						350		350		CY	STRUCTURE EXCAVATION	204.25	1020 CY	TOTAL FILL AVAILABLE		
						220		220		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30	0 CY	FILL REQUIRED FACTORED FILL (220 x 1.15)		
			390					390		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10	0 CY	ROUNDING		
			850					850		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	0 CY	TOTAL FILL REQUIRED		
			49					49		CY	AGGREGATE SURFACE COURSE	401.10	170 TON	SUPERPAVE BITUMINOUS CONCRETE PAVEMENT BASE COURSE		
			18					18		CWT	EMULSIFIED ASPHALT	404.65	170 7014	SUPERPAVE BITUMINOUS CONCRETE PAVEMENET, TYPE IVB		
														INTERMEDIATE COURSE		
			0.33					0.33		TON	MAT DENSITY PAY ADJUSTMENT (N.A.B.I.) SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	406.29	131.4 IUN	WEARING COURSE		
			250					250			SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVB	406.36				
			0.33					0.33		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50				
			0.00			1		1		LS	FURNISHING EQUIPMENT FOR DRIVING PILING (CALAIS (10))	504.10				
						1235		1235		LF	STEEL PILING, HP 12 X 84	505.165				
						2		2			DYNAMIC PILE LOADING TEST	505.45				
						64465		64465		LACIT	STRUCTURAL STEEL, PLATE GIRDER (GALVANIZED (FPQ))	506.55				
						12015		12015				507.11				
										LB	REINFORCING STEEL, LEVEL II					
						28810		28810		LB	REINFORCING STEEL, LEVEL II	507.12				
						26		26			MECHANICAL BAR CONNECTOR (EPOXY COATED (#7))	507.19				
						66		66			MECHANICAL BAR CONNECTOR (EPOXY COATED(#5))	507.19				
						232		232			MECHANICAL BAR CONNECTOR (LEVEL II (#5))	507.19				
						16		16			MECHANICAL BAR CONNECTOR (LEVEL II (#7))	507.19				
						1		1		LS	SHEAR CONNECTORS (1488 - 7/8" x 7") (CALAIS (10))	508.15				
						10		10		GAL		514.10				
						64		64		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10				
						242		242		SY	MEMBRANE WATERPROOFING, SPRAY APPLIED	519.10				
						64		64		LF	JOINT SEALER, HOT POURED	524.11				
						135		135		LF	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	525.335				
						1		1		EACH	REMOVAL OF STRUCTURE (CALAIS (10))	529.15				
						5		5		CY	STONE FILL, TYPE I	613.10				
						250		250		CY	STONE FILL, TYPE III	613.12				
			157					157		LF	BOX BEAM GUARDRAIL	621.30				
			3					3		EACH	MANUFACTURED TERMINAL SECTION, TANGENT (BOX BEAM)	621.51				
			4					4		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	621.725				
			257					257		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80				
			120					120		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
			960					960		HR	FLAGGERS	630.15				
							0.33	0.33		LS	FIELD OFFICE, ENGINEERS	631.10				
													PROJECT NAME:	CALAIS		

PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44qty.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: C.FRENCH
QUANTITY SHEET I

PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 10 OF 134

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES						101	ALS	DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES			
	ROADWAY	TRAINING	EROSION CONTROL	BRIDGE	FULL C.E. ITEMS	GRAND TOTAL	FINAL UNIT	ITEMS	ITEM NUMBER ROUND	QUANTITIES UNIT ITEMS			
					0.33	0.33	LS	TESTING EQUIPMENT, CONCRETE	631.16				
					0.33	0.33	LS	TESTING EQUIPMENT, BITUMINOUS	631.17				
					1000	1000	DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26				
	4					4		CPM SCHEDULE	633.10				
		174				174		EMPLOYEE TRAINEESHIP	634.10				
	0.33					0.33	LS	MOBILIZATION/DEMOBILIZATION	635.11				
	1					1		TRAFFIC CONTROL, ALL-INCLUSIVE (CALAIS (10))	641.11				
	911					911		4 INCH WHITE LINE, WATERBORNE PAINT	646.201				
	755					755	LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111				
	15.7					15.7	LF	24 INCH STOP BAR, WATERBORNE PAINT	646.261				
	1290					1290	SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11				
				340		340	SY	GEOTEXTILE UNDER STONE FILL	649.31				
			125			125	SY	GEOTEXTILE FOR FILTER CURTAIN	649.61				
			15			15	LB	SEED	651.15				
			120			120	LB	FERTILIZER	651.18				
			0.5			0.5	TON	AGRICULTURAL LIMESTONE	651.20				
			60			60	CY	TOPSOIL	651.35				
			65			65	SY	GRUBBING MATERIAL	651.40				
			1			1	LS	EPSC PLAN (CALAIS (10))	653.01				
			40			40	HR	MONITORING EPSC PLAN	653.02				
			1			1	LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.) (CALAIS (10))	653.03				
			0.5			0.5	TON	HAY MULCH	653.10				
			330			330	SY	ROLLED EROSION CONTROL PRODUCT, TYPE I	653.20				
			36			36	CY	STABILIZED CONSTRUCTION ENTRANCE	653.35				
			630			630	LF	SILT FENCE, TYPE II	653.476				
			685			685	LF	BARRIER FENCE	653.50				
			50			50	LF	PROJECT DEMARCATION FENCE	653.55				
	1.26					1.26	SF	TRAFFIC SIGN, TYPE A	675.20				
	125					125	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341				
	10					10	EACH	REMOVING SIGNS	675.50				
	8					8	EACH	RESETTING SIGNS	675.60				
	4					4	EACH	DELINEATOR WITH STEEL POST	676.10				
	1					1	EACH	TEMPORARY TRAFFIC SIGNAL SYSTEM (CALAIS (10))	678.40				
	0.33					0.33	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50				
				103		103	CY	SPECIAL PROVISION (CONCRETE, HIGH PERFORMANCE CLASS A)	900.608				
				143		143	CY	SPECIAL PROVISION (CONCRETE, HIGH PERFORMANCE CLASS B)	900.608				

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44qty.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: C.FRENCH
QUANTITY SHEET 2

PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET II OF 134

BRIDGE QUANTITY SHEET 1

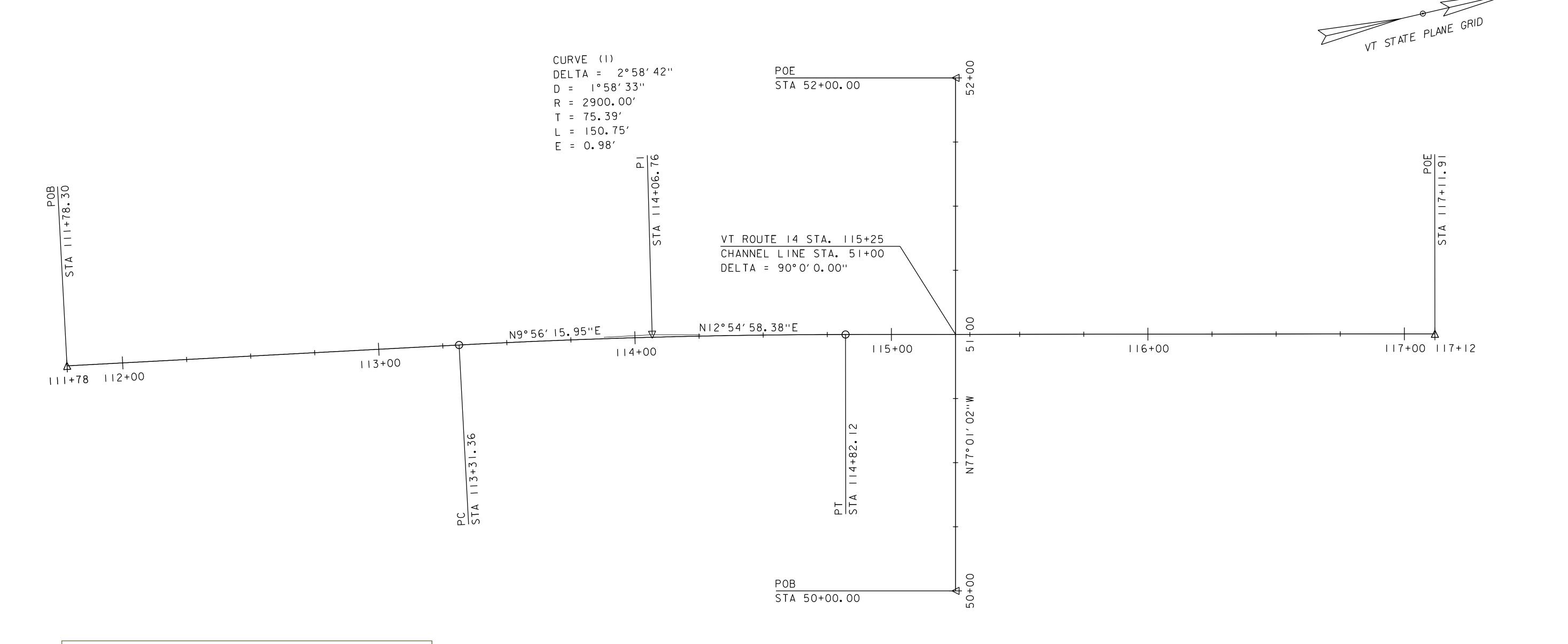
	SUM	MARY OF E	BRIDGE QUANTI	TIES				TOTALS		DESCRIPTIONS		DETAILED SUMMARY OF QUANTITIES				
		CHANNEL	DECK	APP SLAB 1	APP SLAB 2	ABUT 1	ABUT 2	BRIDGE TOTAL	UNIT	Γ ITEMS ITEM NUMBER		QUANTITIES	UNIT	ITEMS		
		490						490	CY	CY UNCLASSIFIED CHANNEL EXCAVATION 203.27						
						163	187	350	CY	CY STRUCTURE EXCAVATION 204.25						
						100	120	220	CY	GRANULAR BACKFILL FOR STRUCTURES	204.30					
						1		1	LS	FURNISHING EQUIPMENT FOR DRIVING PILING (CALAIS (10))	504.10					
						564	671	1235	LF	STEEL PILING, HP 12 X 84	505.165					
						304	071	1200								
						1	1	2	EACH	DYNAMIC PILE LOADING TEST	505.45					
			64465					64465	LB	STRUCTURAL STEEL, PLATE GIRDER (GALVANIZED (FPQ))	506.55					
				2474	2571	3529	3441	12015	LB	REINFORCING STEEL, LEVEL I (EPOXY COATED)	507.11					
			18488			4942	5380	28810	LB	REINFORCING STEEL, LEVEL II	507.12					
						13	13	26	EACH	MECHANICAL BAR CONNECTOR (EPOXY COATED (#7))	507.19					
				12	12	21	21	66	EACH	MECHANICAL BAR CONNECTOR (EPOXY COATED(#5))	507.19					
			216			8	8	232	EACH	MECHANICAL BAR CONNECTOR (LEVEL II (#5))	507.19					
						8	8	16	EACH	MECHANICAL BAR CONNECTOR (LEVEL II (#7))	507.19					
			1					1	LS	SHEAR CONNECTORS (1488 - 7/8" x 7") (CALAIS (10))	508.15					
			4			3	3	10	GAL	WATER REPELLENT, SILANE	514.10					
						32	32	64	LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10					
			242					242	SY	MEMBRANE WATERPROOFING, SPRAY APPLIED	519.10					
						32	32	64	LF	JOINT SEALER, HOT POURED	524.11					
						67.5	67.5	135	LF	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	525.335					
						1		1	EACH	REMOVAL OF STRUCTURE (CALAIS (10))	529.15					
						2.5	2.5	5	CY	STONE FILL, TYPE I	613.10					
						125	125	250	CY	STONE FILL, TYPE III	613.12					
						170	170	340	SY	GEOTEXTILE UNDER STONE FILL	649.31					
			91			5	7	103	CY	SPECIAL PROVISION (CONCRETE, HIGH PERFORMANCE CLASS A)	900.608					
			01	30	30	40	43	143	CY	SPECIAL PROVISION (CONCRETE, HIGH PERFORMANCE CLASS B)	900.608					
				30	30	40	40	140		SI ECIAL I NOVISION (CONCILETE, FIIGHT EN ONWANCE CEASS B)	300.000					

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44qty.dgn
PROJECT LEADER: G. LAROCHE
DESIGNED BY: K. LIHIC
BRIDGE QUANTITY SHEET

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: G. LAROCHE
SHEET 12 OF 134

GPS CONTROL POINTS	HVCTRL # C772 NORTH = 678423.820 EAST = 1656887.650 ELEV. = 758.090 GENERAL LOCATION: CALAIS FROM THE JUNCTION OF VT 14 AND VT 214 APPROXIMATELY 4.3 MI. TO THE MARK ON REBAR SET FLUSH WITH ALUMINUM CAP MARK	IN N. MONTPELIER PROCEED NORTHERLY THE LEFT, OPPOSITE POLE #196/148. T KED "CONTROL POINT".	ALONG VT 14 FOR HE MARK IS A 3/4"	HVCTRL #2 C771 NORTH = 677337.090 EAST = 1655841.470 ELEV. = 753.390 GENERAL LOCATION: CAPROM THE JUNCTION OF APPROXIMATELY 4.1 MOI40/1205/0380.THE MOI40/1205/0380.THE MOINT".		PROCEED NORTHERLY HERLY OF MILE MARKI ALUMINUM CAP MARKE	ALONG VT 14 FOR ER D "CONTROL
GPS CONTROL POINTS	HVCTRL #10 CA74 NORTH = 668262.570 EAST = 1654558.010 ELEV. = 717.570 GENERAL LOCATION: CALAIS FROM THE JUNCTION OF VT 14 AND VT 214 PROCEED NORTHERLY ALONG VT 14 FOR APP THE MARK ON THE LEFT, OPPOSITE POLE # 3/4" REBAR SET FLUSH WITH ALUMINUM CA	IN N. MONTPELIER PROXIMATELY 2. I MI. TO FII8/68. THE MARK IS A AP MARKED "CONTROL POINT".	NORTH = EAST = ELEV. =	TIED	HVCTRL #9 NORTH = 669218.004 EAST = 1654874.978 ELEV. = 742.696 M. PINE 48. /0 S. PINE 78. GILMAN P.C. & P. WINTERS & C. CYR	NOI EA ELI NAIL ON TOF GP	HVCTRL # 10 RTH = 668262.570 ST = 1654558.010 EV. = 717.570 TOP A9.26
DATUM VERTICAL HORIZONTAL ADJUSTMENT	NORTH = EAST = ELEV. = NAVD 88 NAD 83 (07) COMPASS	NORTH = EAST = ELEV. =	NORTH = EAST = ELEV. =		NORTH = EAST = ELEV. =	EA	DRAWN BY: S. COLEY

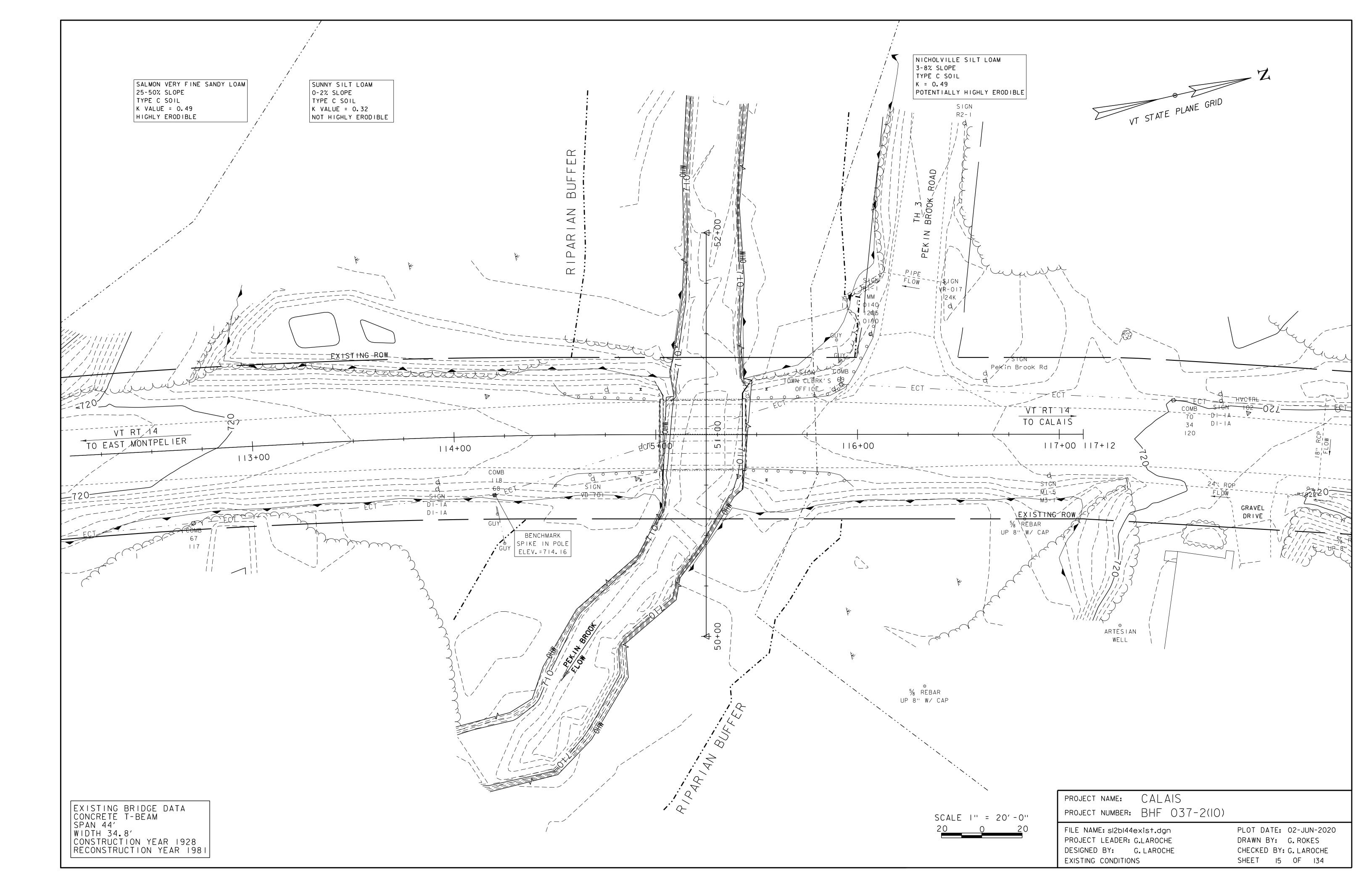


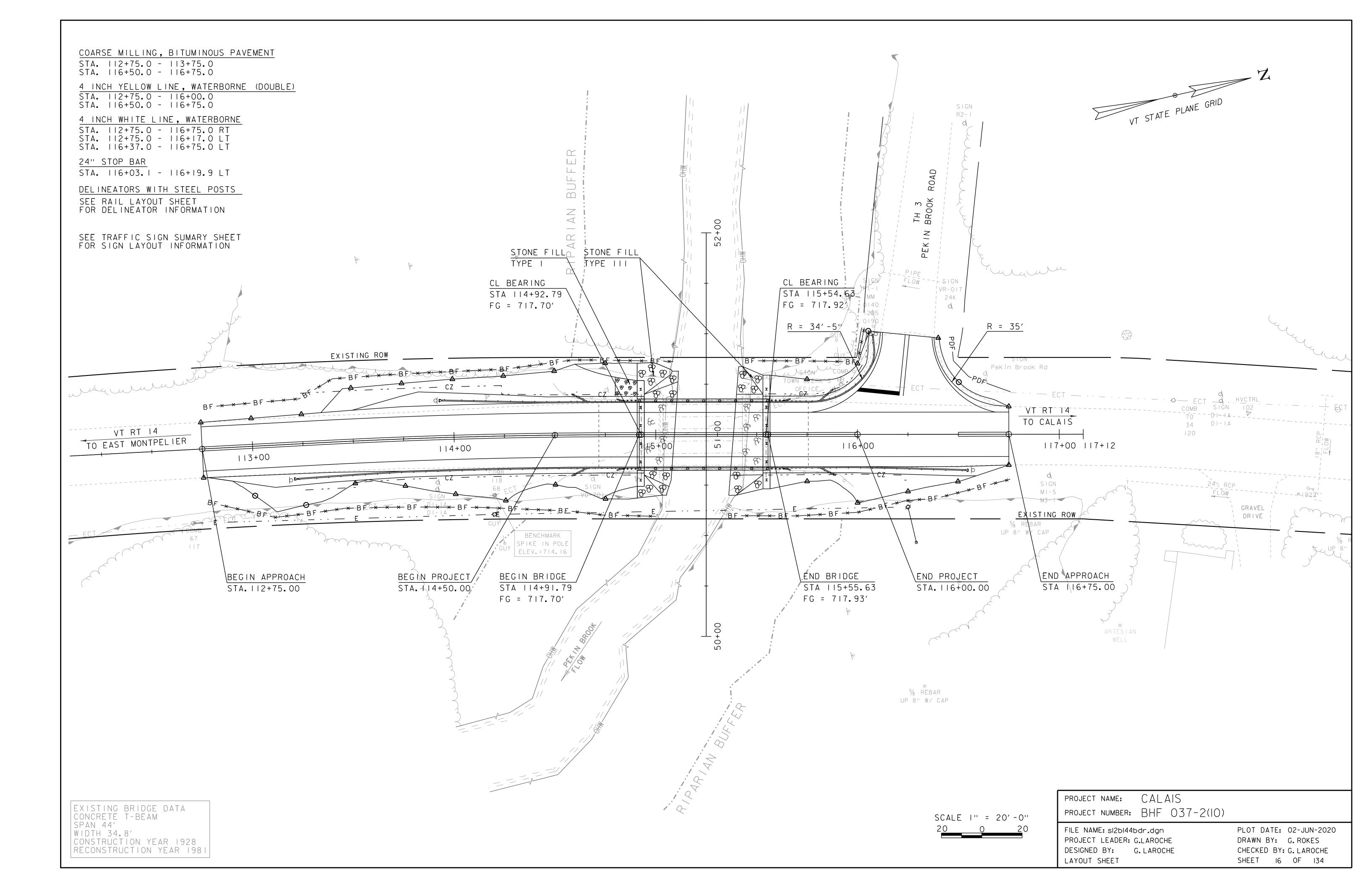
CURVE DATA												
NO.	RADIUS	DELTA	LENGTH	TANGENT	ALIGNMENT							
C1	2900	2°58'42.43"	150.75	75.39	VT14PropOn							
					MAINLINE							

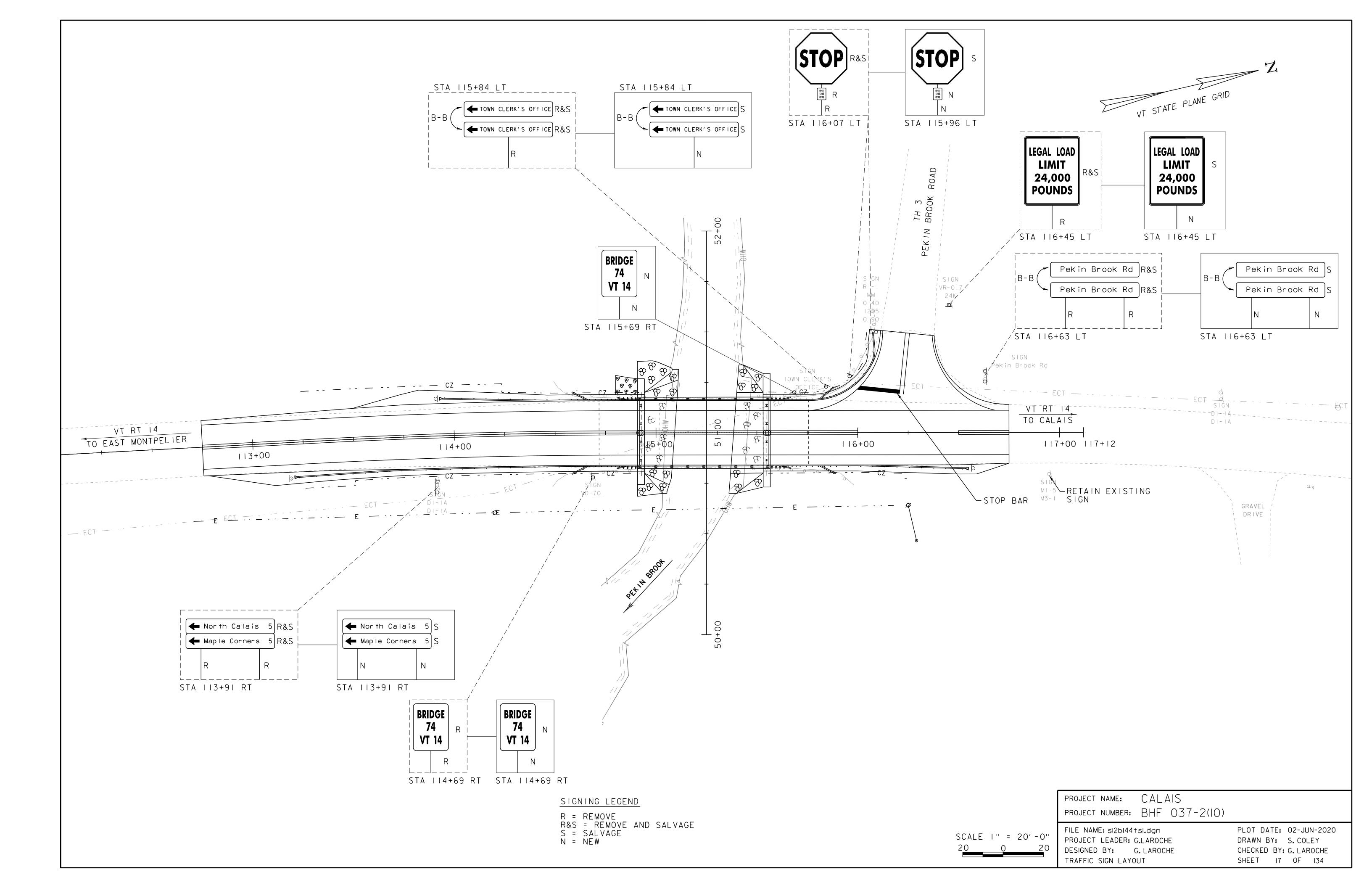
				MAINL	INE STATIC	NING					
POINT		DISTANCE	NORTHING	EASTING							
ID	BEARING	(FEET)	(Y)	(X)	PC	PI	PT	DELTA	R	L	Т
1	N 9°56'15.95" E	153.06 '	668023.9613	1654535.068		111+78.30					
	N 12°54'58.38" E	305.18 '	668248.989	1654574.494	113+31.36		114+82.12	2°58'42.43"	2900.00 '	150.75 '	75.39 '
3			668546.4508	1654642.711		117+11.91					
				CHANI	NEL STATIC	ONING		•			
POINT		DISTANCE	NORTHING	EASTING							
ID	BEARING	(FEET)	(Y)	(X)	PC	PI	PT	DELTA	R	L	Т
6	N 77°01'02.40" W	200.00 '	668341.8092	1654698.376		50+00.00					
7			668386.7404	1654503.489		52+00.00					

SCALE I'' = 20'-0'' 20 0 20 PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44alignbdr.dgn PROJECT LEADER: G.LAROCHE DESIGNED BY: G.ROKES ALIGNMENT SHEET PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 14 OF 134







TRAFFIC SIGN SUMMARY SHEET

MILEMARKER,	SIGN	SIGI DIMENS		NEW &	· SALVA	GED SIG	NS PC	S OF	SQUARE STEE	L		R ALUMIN Ø (in)	NUM POSTS	TUBUL	AR STEEL) (in)	W	-SHAPE S	STEEL	R				N DETAIL
STATION, OR IGN NUMBER	LEGEND	E WIDTH A (in)	HEIGHT (in)	"A"	"B"	SALV SA		A POSTS	1.75 2.0 2.5 Ib/ft 1.88 2.42 3.35	N C H O R	3.0	4.0 A MC	.0 OD FOUND- ATION .7	3.0		5.0 FTG. SI 24" 3	WEIGH	HT POST SIZE	SIRUI GMR ONEED	REMARKS	STD. SHEET NUMBER	DETAIL ON SHEET NUMBER	MUTCD/ SHSM
STA 113+91RT	North Calais 5	1 72	12			X		2	15											VDI-I	T-93		
	← Maple Corners 5	1 72	12			X														VDI-I	T-93		
STA 114+69 RT	BRIDGE 74 VT 14	1 6	10	0.42				1	IO											VD-70I	T-42		
STA 115+69 LT	BRIDGE 74 VT 14	1 6	10	0.42				ı	10											VD-70I	T-42		
STA 115+84 LT	TOWN CLERK'S OFFICE	2				X		1	15											BACK TO BACK SIGN			
STA 115+96 LT	STOP	1 30	30			X														RI-I			RI-I
	0140 1205 0190	6	10	0.42					I5											VD-700	T-45		
STA 116+45 LT	LEGAL LOAD LIMIT 24,000 POUNDS	1 24	30			Х		ı	15											VR-017	T-70		
STA 116+63 LT	Pekin Brook Rd	2				Х		2	15											BACK TO BACK SIGN		22	DI-Ia(R)
	HS ARE TO BE DETERMINED)							FT FT FT 20 105	EA	LB	LB L	.В	LB	LB LB	LB							

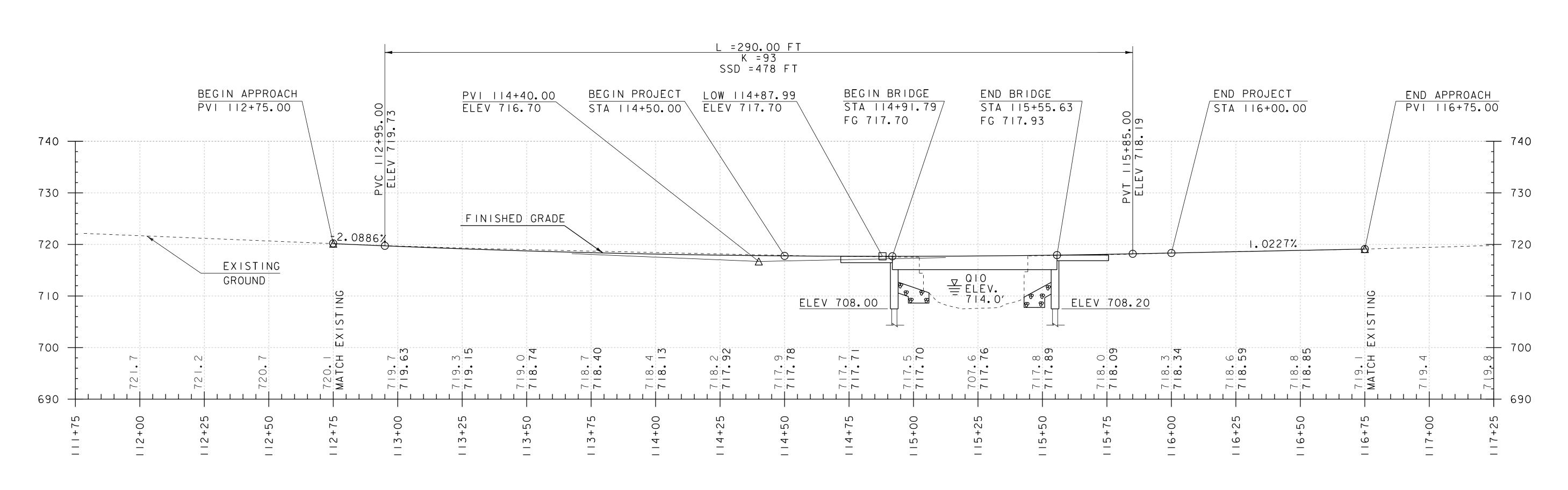
125

BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

TOTALS

PROJECT NAME: CALAIS PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44†sl.dgn PROJECT LEADER: G.LAROCHE DESIGNED BY: S.COLEY TRAFFIC SIGN SUMMARY SHEET PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 18 OF 134



PROFILE ALONG CENTERLINE VT_ROUTE 14

HOR. SCALE I'' = 20'-0" VER. SCALE I'' = 10'-0"

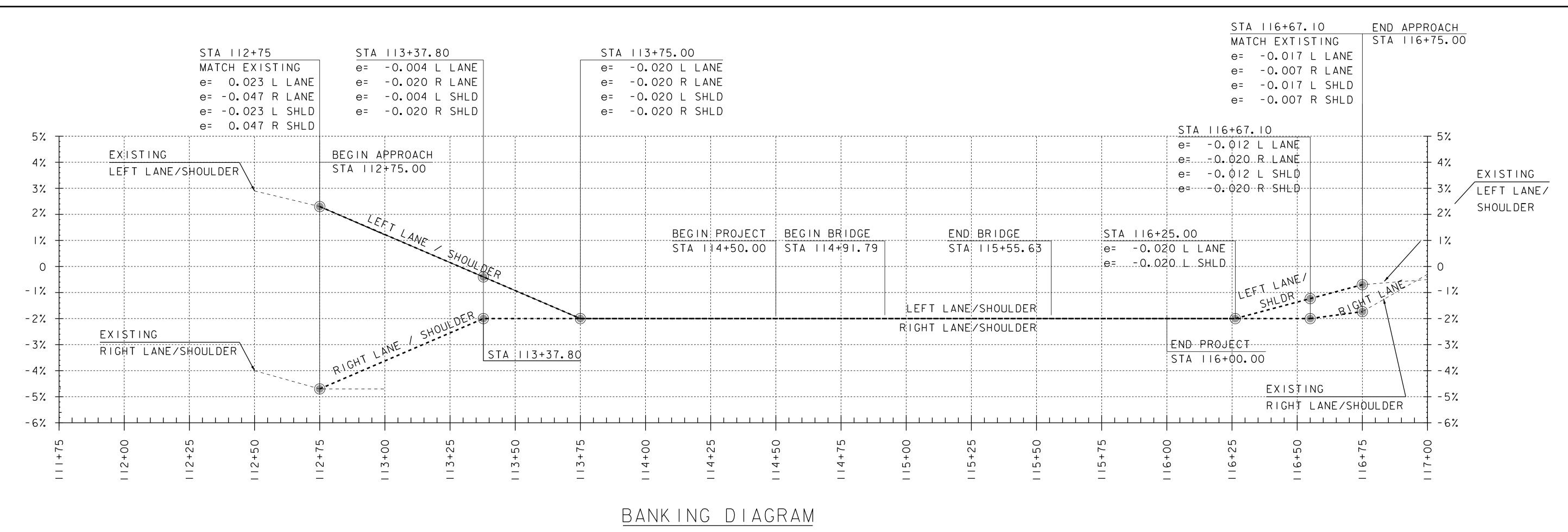
NOTE:

GRADES SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG & GRADES SHOWN TO THE NEAREST HUNDREDTH ARE FINISH GRADE ALONG &

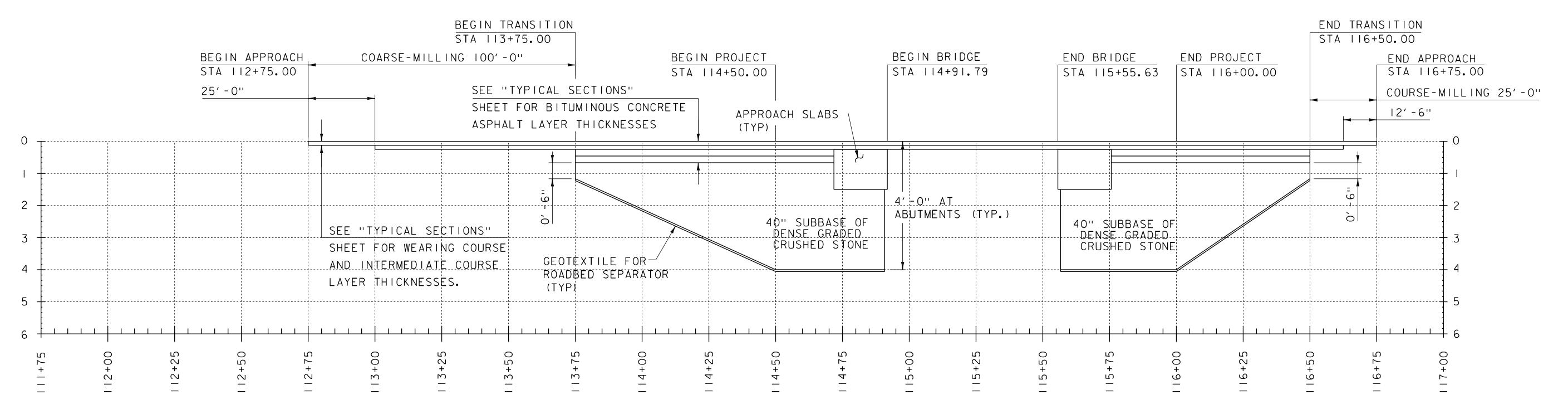
PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44pro.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
PROFILE SHEET

PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 19 OF 134



HOR. SCALE I'' = 20'-0" VER. SCALE I'' = 10'-0"



VT-14 MATERIAL TRANSITION DETAIL

(NOT TO SCALE)

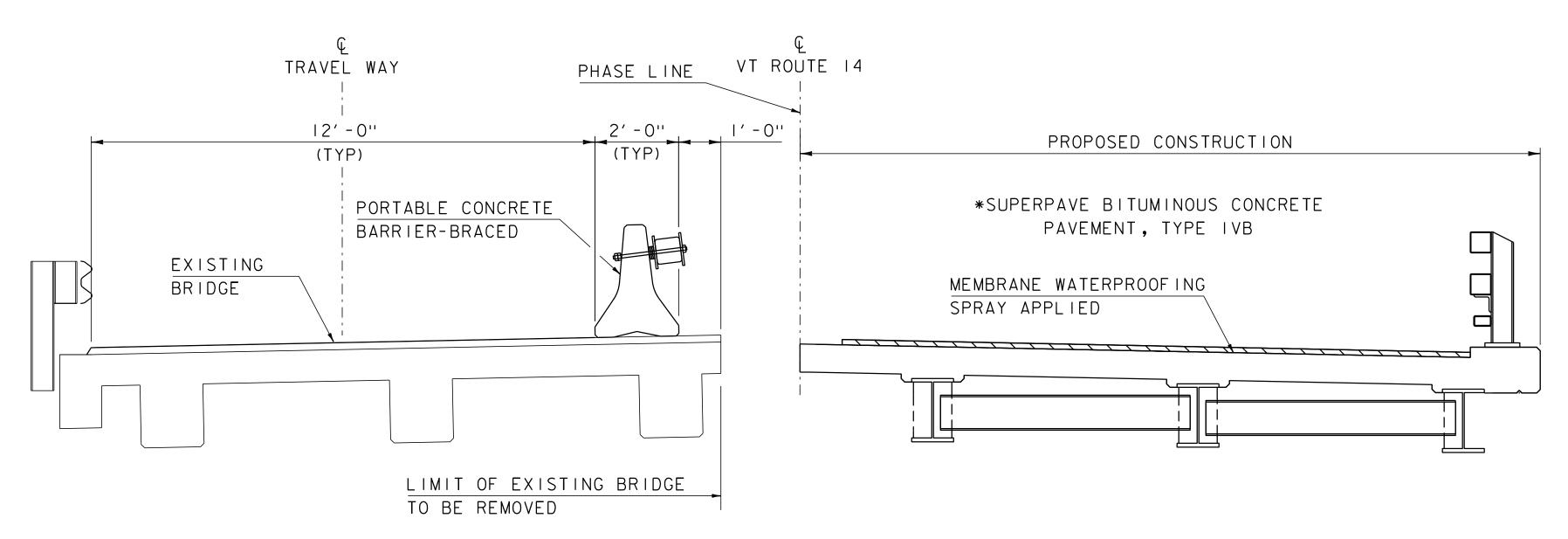
PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: si2bi44xs.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
BANKING DIAGRAM & MATERIAL TRANSITION

PLOT DATE: 02-JUN-2020 DRAWN BY: G.ROKES CHECKED BY: G.LAROCHE SHEET 20 OF 134

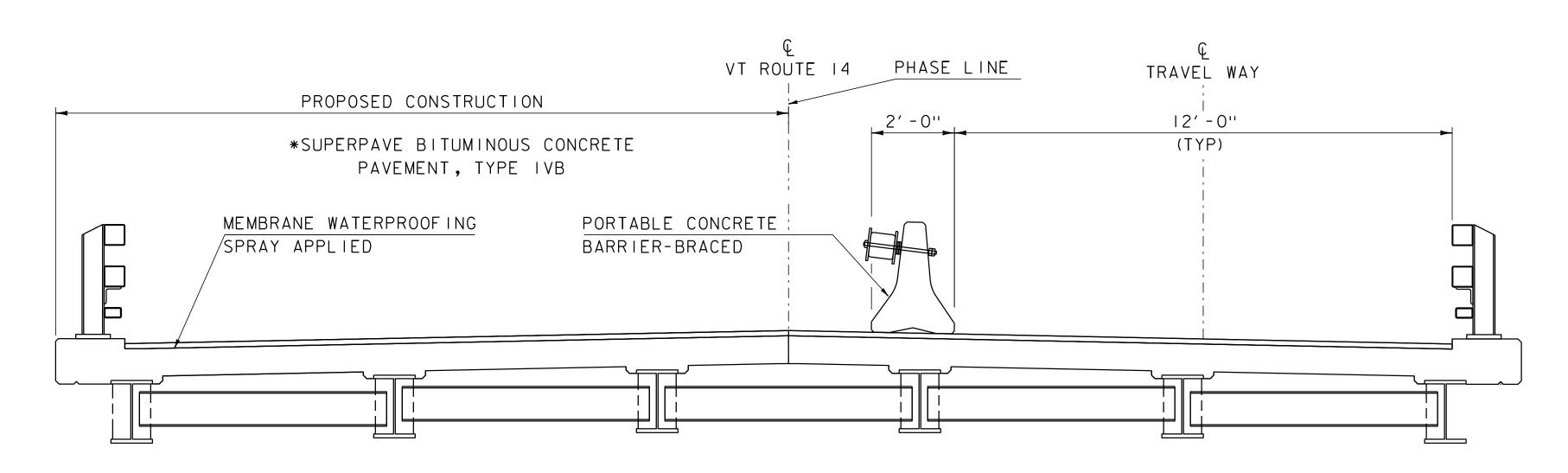
NOTES

- I. PHASE I AND 2 REFLECTS ONE-WAY, ALTERNATING TRAFFIC CONTROLLED BY TEMPORARY TRAFFIC SIGNALS.
- 2. PHASING TYPICAL SECTIONS ARE CONCEPTUAL ONLY. PHASING TYPICAL SECTIONS ARE INTENDED TO COMMUNICATE BASIC SITE CONDITIONS THAT INCLUDE LANE WIDTHS AND SHOULDER WIDTHS.
- 3. TEMPORARY BARRIER IN THE PLAN SHALL BE IN ACCORDANCE WITH SECTION 621.
- 4. SUPPORT OF EXCAVATION LOCATED WITHIN THE DEFLECTION DISTANCE OF THE TRAFFIC BARRIER SHALL BE DESIGNED TO WITHSTAND A TRAFFIC BARRIER COLLISION LOAD. THE SUPPORT OF EXCAVATION SHALL EXTEND UP TO A HEIGHT THAT IS EQUAL TO OR HIGHER THAN THE TOP OF THE ADJACENT BARRIER.
- 5. CONCRETE BARRIER EXPOSED TO TRAFFIC SHALL BE DELINEATED TO MATCH THE CORRESPONDING TEMPORARY PAVEMENT MARKING. REFLECTORS SHALL BE MOUNTED EVERY 20 FEET ALONG THE SIDE OF THE BARRIER EXPOSED TO TRAFFIC.
- 6. THE CONTRACTOR MAY FASTEN THE TEMPORARY TRAFFIC BARRIER TO THE EXISTING BRIDGE DECK DURING PHASE I.



PHASE #1 BRIDGE TYPICAL SECTION

(NOT TO SCALE) FLOW



PHASE #2 BRIDGE TYPICAL SECTION

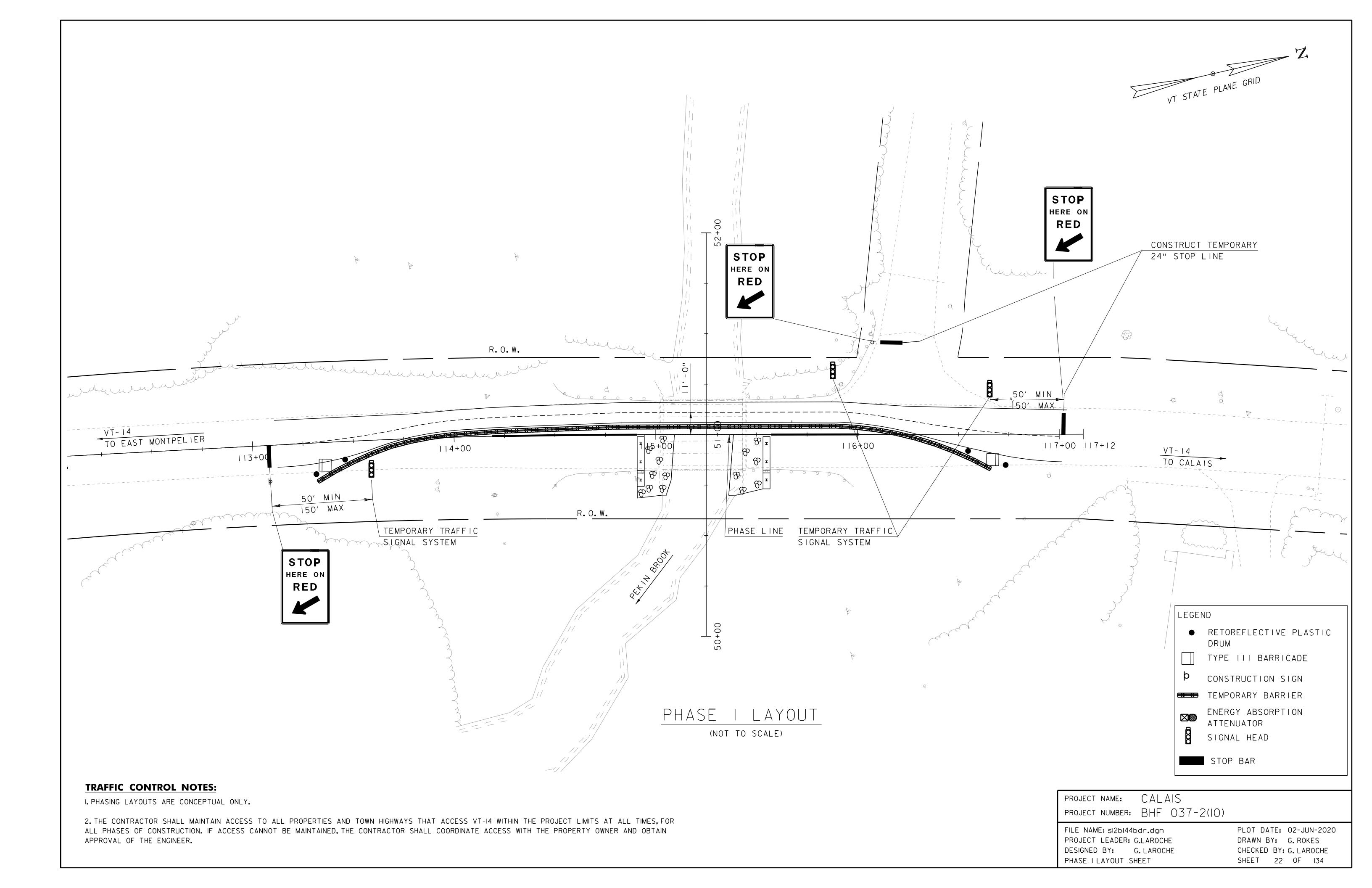
(NOT TO SCALE) FLOW

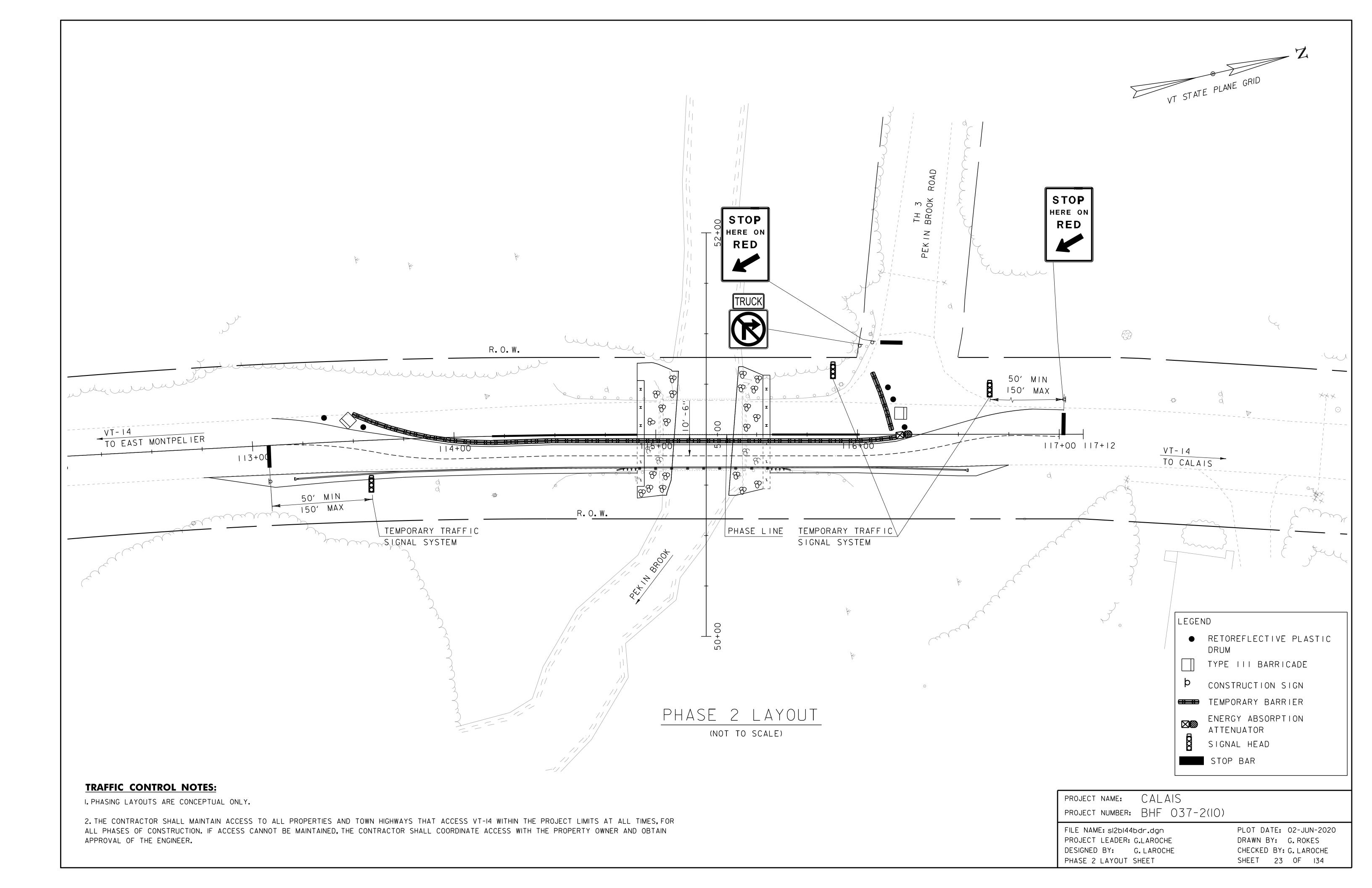
*THE TRAVEL WAY SURFACE OVER THE PROPOSED STRUCTURE CONSTRUCTED DURING PHASE I WILL BE I 1/2" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT, TYPE IVB OVER WATERPROOFING MEMBRANE UNTIL FINAL PAVING OPERATIONS ARE COMPLETED DURING PHASE 2.

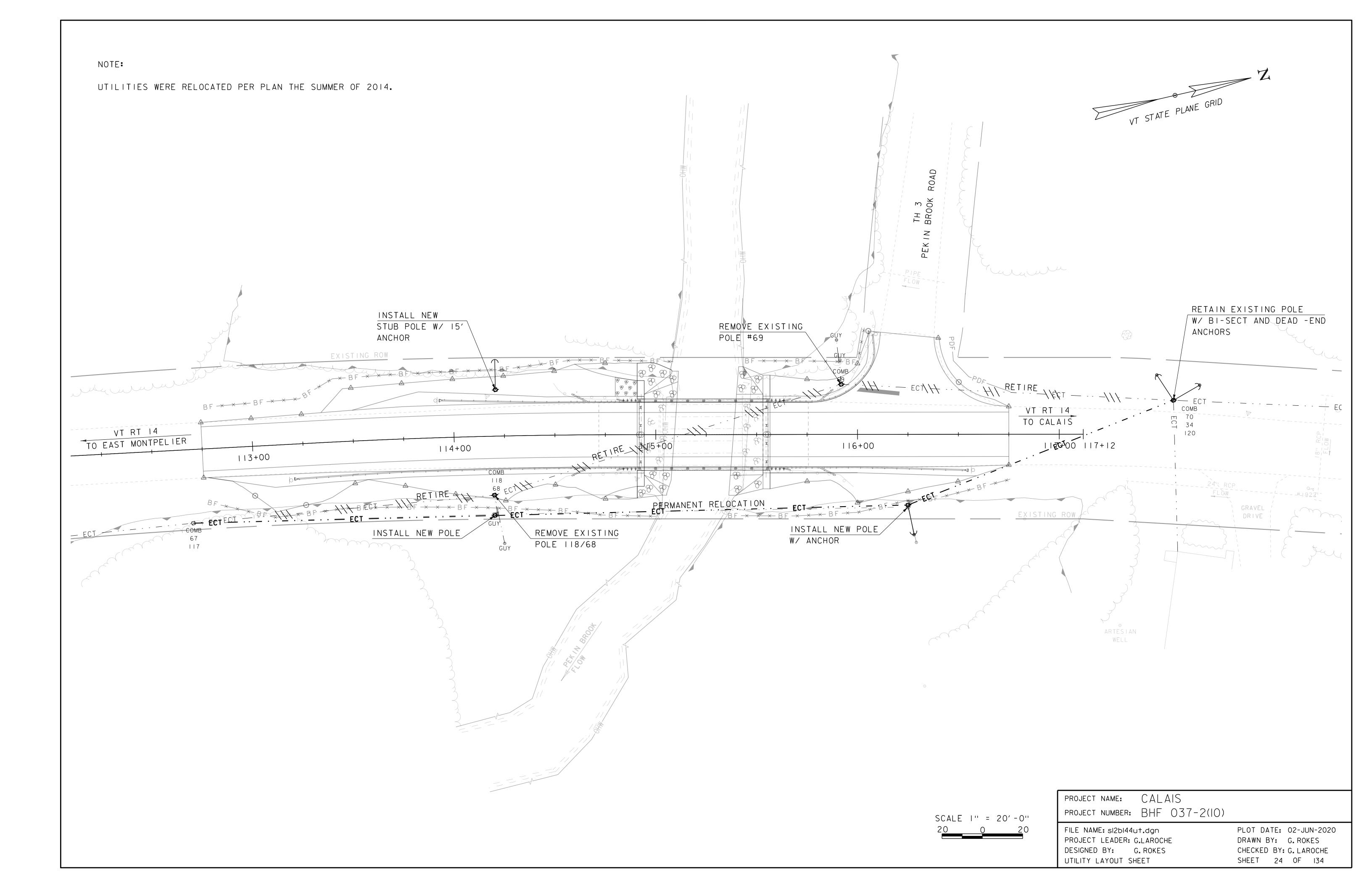
PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44typ.dgn
PROJECT LEADER: G. LAROCHE
DESIGNED BY: G. LAROCHE
PHASE TYPICAL SECTIONS

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: G. LAROCHE
SHEET 21 OF 134







SOIL CLASSIFICATION

AASHTO

Gravel and Sand Fine Sand Silty or Clayey Gravel and Sand Silty Soil - Low Compressibility Silty Soil - Highly Compressible

Clayey Soil - Low Compressibility Clayey Soil - Highly Compressible

ROCK QUALITY DESIGNATION

ROCK DESCRIPTION
Very Poor
Poor
Fair
Good
Excellent

SHEAR STRENGTH

UNDRAINED SHEAR STRENGTH	
IN P.S.F.	CONSISTENC
<250	Very Sof
250-500	Soft
500-1000	Med. Stif
1000-2000	Stiff

2000-4000 >4000

Very Stiff

CORRELATION GUIDE OF "N" TO DENSITY/CONSISTENCY

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

COMMONLY USED SYMBOLS

	MINIONET USED STINIDUES
▼	Water Elevation Standard Penetration Boring
⊕ ⊙ S	Auger Boring Rod Sounding
S N	Sample Standard Penetration Test Blow Count Per Foot For: 2" O. D. Sampler 13/8" I. D. Sampler Hammer Weight Of 140 Lbs.
VS US	Hammer Fall Of 30" Field Vane Shear Test Undisturbed Soil Sample
B DC MD	Blast Diamond Core Mud Drill
WA HSA AX BX	Wash Ahead Hollow Stem Auger Core Size 1½" Core Size 15%"
NX M LL PL	Core Size 2 1/8" Double Tube Core Barrel Used Liquid Limit Plastic Limit
PI NP W D	Plasticity Index Non Plastic Moisture Content (Dry Wgt. Basis) Dry
M MTW W	Moist Moist To Wet Wet
Sat Bo Gr	Saturated Boulder Gravel
Sa Si CI HP	Sand Silt Clay Hardpan
Le NLTD CNPF	Ledge No Ledge To Depth Can Not Penetrate Further
TLOB NR Rec.	Top of Ledge Or Boulder No Recovery Recovery
%Rec. RQD CBR	Percent Recovery Rock Quality Designation California Bearing Ratio Less Than
<pre>< > R VTSPG</pre>	Creater Than Refusal (N > 100) NAD83 - See Note 7
	COLOR
blk bl brn dk	Black pnk Pink Blue pu Purple Brown rd Red Dark tn Tan

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

VT RT 14 VT RT 14 TO EAST MONTPELIER TO CALAIS 116+00 114+00 **B-2**

SCALE I" = 20'-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 $\langle 3" \text{ and } \rangle 0.0787" (*10 \text{ sieve}).$

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.

- The subsurface explorations shown herein were made between March 10 and April 10, 2014 by Terracon Consultants Inc.
- 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.

GENERAL NOTES

- 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 Manualon Subsurface Investigations, 1988.
- 7. Northing and Easting coordinates are shown in Vermont State Plane Grid North American Datum 1983 in meters and survey feet.

BORING CHART

HOLE NO.	SURV. STATION	OFFSET	NORTHING	EASTING
B-I	114+82.3	24.0' LT	668328.04	1654568.04
B-2	116+58.8	20.8' RT	668489.68	1654651.26

CALAIS PROJECT NAME: PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44bor.dgn PROJECT LEADER: G.LAROCHE DESIGNED BY: G. LAROCHE BORING INFORMATION SHEET

PLOT DATE: 02-JUN-2020 DRAWN BY: G. ROKES CHECKED BY: G. LAROCHE SHEET 25 OF 134

V]	Trans §	STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION		VT Route 14	4, Bridg	NG LOG e 74 Over Pek Vermont	in Brook	Pag	ing N ge No No.:	.: _	B- 1 of s12b14	3
		SOBSONI ACE INTONMATION			BHF ()37–2(10)		Che	ecked	Ву:	A	SP
Boring	Crew: _	Drilex, JDF	Tunos	Cas	•	Sampler		Groundw	ater	0bserva	tions	
Date S	itarted: _	3/10/14 Date Finished: 3/11/14	Type:	<u>Ste</u>	in	<u>SS</u>	Date	Dep (ft		N	lotes	
VTSPG	NAD83:	N 668328.04 ft E 1654568.04 ft	Hamme			140 lb.	03/10/			While so	ampling	<u> </u>
Station	: 11	4+82.3 Offset: 24.00 LT	Hamme Hamme	r Fall: <u>30</u> r/Rod Type:		<u>30 in.</u> Nuto/N						
Ground	l Elevation:	721.0 ft	Rig: _			<u>CE = 1.33</u>						
Depth (ft)	Strata (1)	CLASSIFICATION (Desc	N OF MAT cription)	ERIALS				Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	<u>زه یل جن</u>	A-1-b, GrSa, dark brown, Rec. = 1.58 ft, (FIL	LL)					11-28-	14.1		53.3	18
Γ								33-22 (61)		70.5		
1		A-1-b, GrSa, brown, Rec. = 0.92 ft, (FILL)						15-18- 9-3 (27) 2-1-1-2 (2)	8.8	30.5	52.6	16.
5 –	0: 0: 0: 0	A-2-4, SiSa, gray-brown, Rec. = 0.25 ft, (FIL	L)					2-1-1-2 (2)	23.3	14.4	60.2	25.
1		A-4, SiSa, dark brown, Rec. = 0.17 ft						1-1-1-1 (2)	29.5	5.0	56.6	38.
		A-4, GrSiSa, brown/dark brown, Rec. = 0.5 ft	<u> </u>					1-1-1-1	26.7	22.1	40.2	37.
10		A-4, SiSa, brown/dark brown, Rec. = 1.33 ft						(2) 3-5-4-4	25.0	15.5	43.5	41
1		A-4, SaSi, gray-brown, Rec. = 1.0 ft						(9) 3-4-2-2				
- - -								(6)		5.0	47.3	40
15		A-4, SiSa, gray-brown, Rec. = 0.0 ft						8-8-9-9 (17)				
-		A-4, Si, gray, Rec. = 1.17 ft						3-3-3-3 (6)	30.8	4.7	11.9	83.
		A-4, Si, gray, Rec. = 1.58 ft						1-1-1-2 (2)	36.1	0.3	1.6	98
20 -		A-4, Si, gray, Rec. = 0.83 ft						12-6-2-			5.4	93.
-} -{		A-4, Si, gray, Rec. = 0.83 ft						(8) 3-2-2-3 (4)	31.8	1.1	5.6	93.
25		A-4, Si, gray, Rec. = 1.17 ft						8-7-5-4 (12)	29.8	3	1.7	98
30 –		A-4, Si, gray, Rec. = 1.58 ft						4-2-2-2 (4)	34. 1	ı	1.0	99
35 -		A-4, Si, gray, Rec. = 1.58 ft						5-4-3-3 (7)	34.6	3	0.7	99
40 -		A-4, Si, gray, Rec. = 1.67 ft						5-4-2-2 (6)	31.7	,	0.8	99
45 –		A-4, Si, gray, Rec. = 1.83 ft Shelby tube sample, Rec. = 0.0 ft						3-2-2-4 (4)	39. 1	ŀ	0.6	99
- - -												
otes:	2. N Values have 3. Water level rec	ines represent approximate boundary between material types. Transition may be gradual to not been corrected for hammer energy. CE is the hammer energy correction factor, adings have been made at times and under conditions stated, roundwater may occur due to other factors than those present at the time measureme e elevations indicated on the boring logs were estimated based on the grading plan p	. CE is an estima	ted value.						266		

ABUT IBTM. EL 708.00

Boring No.: BORING LOG <u>B-1</u> STATE OF VERMONT Page No.: 2 of 3 AGENCY OF TRANSPORTATION VT Route 14, Bridge 74 Over Pekin Brook Calais, Vermont V I rans Working to Get You There Vermont Ajency of Transportation MATERIALS & RESEARCH SECTION s12b144 Pin No.: SUBSURFACE INFORMATION BHF 037-2(10) Checked By: Sampler Groundwater Observations Drilex, JDF Boring Crew: Type: Date Depth (ft) Notes Date Started: <u>3/10/14</u> Date Finished: <u>3/11/14</u> I.D.: 1.38 in 4 in 300 lb. 140 lb. Hammer Wt: VTSPG NAD83: N 668328.04 ft E 1654568.04 ft 03/10/14 16.0 While sampling 30 in. 30 in. Hammer Fall: 114+82.3 Station: Offset: 24.00 LT Hammer/Rod Type: Auto/N Ground Elevation: 721.0 ft Rig: <u>CME 85 Truck</u> <u>CE = 1.33</u> Depth (ft) CLASSIFICATION OF MATERIALS (Description) 4-2-2-2 34.3 A-4, Si, gray, Rec. = 1.17 ft 1.0 99.0 55 - A-4, Si, gray, Rec. = 1.5 ft 6.1 93.9 4-4-2-3 30.8 A-4, Si, gray, Rec. = 1.83 ft 1.6 98.4 1-1-2-2 29.9 65 A-4, Si, gray, Rec. = 2.0 ft 4-5-5-4 34.4 (10) 1.0 99.0 70 A-4, Si, gray, Rec. = 0.75 ft 0.2 99.8 3-3-3-4 34.9 (6) 75 · 85 - A-4, Si, gray, Rec. = 1.5 ft 1.2 | 98.8 A-4, Si, gray, Rec. = 1.58 ft 3-3-3-5 33.5 (6) 3.1 96.9 7.8 92.2 A-4, Si, gray, Rec. = 1.75 ft 5-6-6-7 28.1 Stratification lines represent approximate boundary between material types. Transition may be gradual.
 N Values have not been corrected for hammer energy. CE is the hammer energy correction factor. CE is an estimated value.
 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.
 Ground surface elevations indicated on the boring logs were estimated based on the grading plan provided by VAOT. Terracon

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

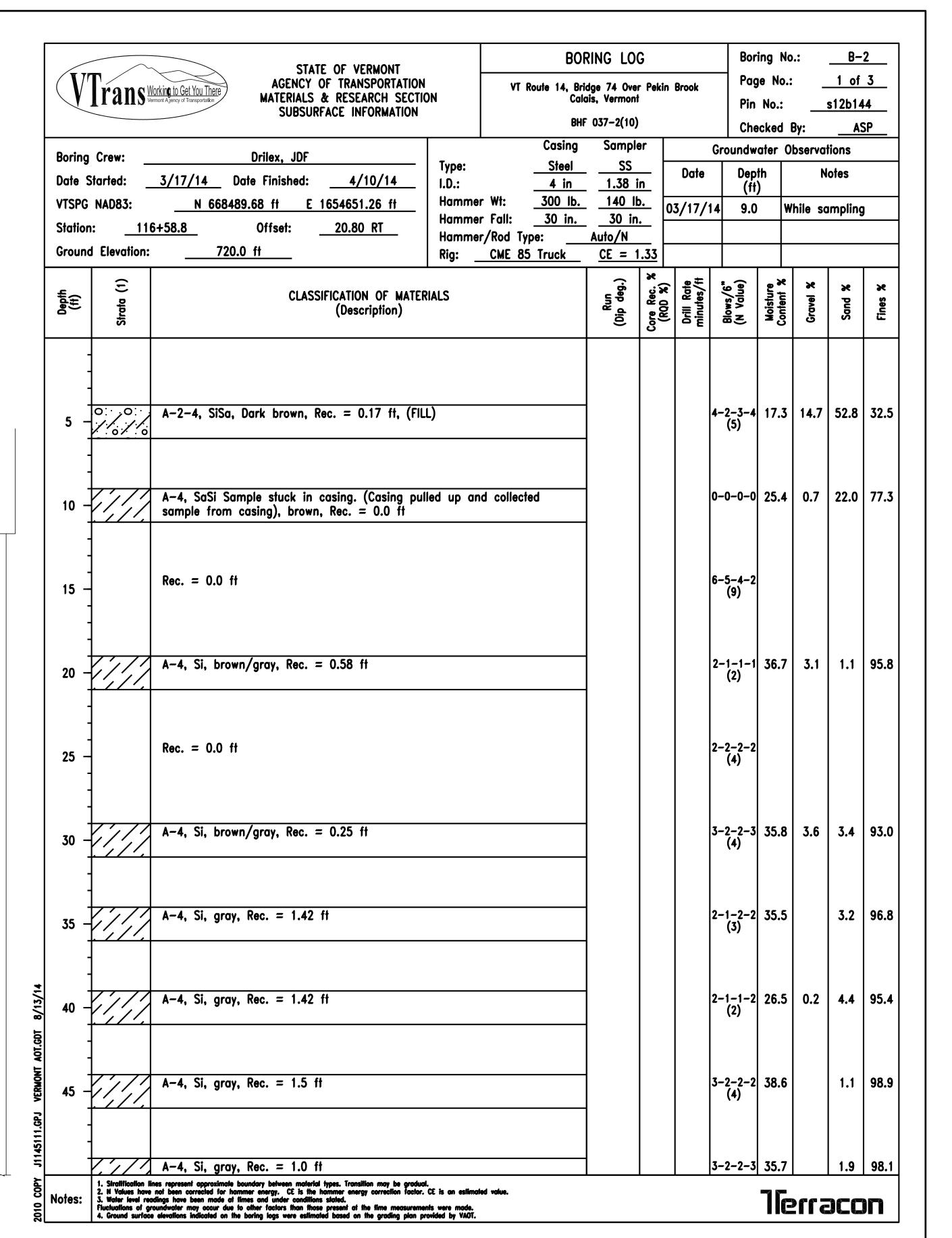
FILE NAME: sI2bI44bor.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
BORING LOG SHEET I

PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 26 OF 134

V'	Trans	Orking to Get You There mont Agency of Transportation	AGENCY O MATERIALS &	OF VERMONT F TRANSPORTATION RESEARCH SECTION CONTROL RESEARCH SECTION ROCE INFORMATION			14, Bride Calai: BHF	ING LOG ge 74 Over Pek s, Vermont 037-2(10)		Pag Pin Che	ing No ge No.: No.: ecked (<u>:</u> :	B- 3 of s12b14 AS	<u>3</u>
Boring	Crew: _		Drilex, JDF		Type:		asing Steel	Sampler SS		roundw				
	_			3/11/14	I.D.: Hamme		4 in	1.38 in	Date	Dep (ft)		otes	
VISPG Station	NAD83:	<u>N 66832</u> 1+82.3	8.04 ff <u>E 1</u> Offset:	654568.04 ft 24.00 LT	Hamme	r Fall: 30	00 lb. 0 in.	140 lb. 30 in.	03/10/14	16.	0 W	hile sa	ımpling	
	d Elevation:		_	24.00 LI	Hamme Rig:	r/Rod Type: CME 85 Tru		<u>Auto/N</u> <u>CE = 1.33</u>						
Depth (ff)	Strata (1)			CLASSIFICATION (Desc						Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
	////									(12)				
105 -		105.0 ft - 10	ay, Rec. = 0.83 9.0 ft, Weather at 109'. SPT r	ft ed bedrock encour efusal encountered	ntered. Dit d at 109'.	fficult drilling	from	105' to 109'.	,	14-16- 60/2" (76+)	25.0	0.7	31.0	68.3
110 -				Hole stoppe	d © 109.0	0 ft								
_														
120 - - - - 125 -														
- - -														
125 -														
125 - 130 - 135 - 140 -														
125 - 130 - 135 -		nes represent approximate h	oundgry between material &	pes. Transition may be gradual										

ABUT 2 BTM. EL 708.20

EST. PILE TIP



PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44bor.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
BORING LOG SHEET 2

PLOT DATE: 02-JUN-2020 DRAWN BY: S. COLEY CHECKED BY: G. LAROCHE SHEET 27 OF 134

	STATE OF VERMONT		BOF		Boring No.: B-2						
VTrans	Working to Get You There Vermont Ajency of Transportation MATERIALS & RESEARCH SECTION MATERIA		VT Route 14, Bri		Page No.: 2 of 3						
V II WIID	SUBSURFACE INFORMATION	711		037-2(10)				No.:		<u>s12b14</u>	
			Casing	Sampler	\top		Groundw			AS	<u>۲</u>
	Drilex, JDF	Type:	Steel	SS	. -	Date	Dep			otes	
	3/17/14 Date Finished: 4/10/14	I.D.: Hamme	4 in 300 lb.	1.38 in	`		(ft)			
	N 668489.68 ft E 1654651.26 ft	Hamme			03	/17/1	9.0	W	hile so	mpling	<u> </u>
Ground Elevation	16+58.8 Offset: <u>20.80 RT</u> n: <u>720.0 ft</u>		· · · · · · · · · · · · · · · · · · ·	Auto/N				_			
<u> </u>	<u> </u>	Kig: _	CME 85 Truck	<u>CE = 1.3</u>	<u> 2</u> 				1		
Strata (1)	CLASSIFICATION OF MATER (Description)	RIALS		Run (Dip deg.)	(RQD %)	Orill Rate minutes/ft	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
55 -	A-4, Si, gray, Rec. = 0.83 ft						3-2-2-2 (4)	33.0		3.4	96.6
65 -	A-4, Si, gray, Rec. = 0.83 ft						3-3-2-2 (5)	29.9		3.0	97.0
75 — -											
80 -	A-4, Si, gray, Rec. = 1.08 ft						8-5-5-8 (10)	32.3		2.8	97.2
85 — -											
90	A-4, Si, gray, Rec. = 1.08 ft						8-5-6- 10 (11)	31.9	5.0	3.2	91.8
95 - -											
Votes: 2. N Values ha	n lines represent approximate boundary between material types. Transition may be gradual, are not been corrected for hammer energy. CE is the hammer energy correction factor, readings have been made at times and under conditions stated, groundwater may occur due to other factors than those present at the time measurementage elevations indicated on the boring logs were estimated based on the grading plan pro	CE is an estimat	ed value.					16	<u> </u> 2ff	966	

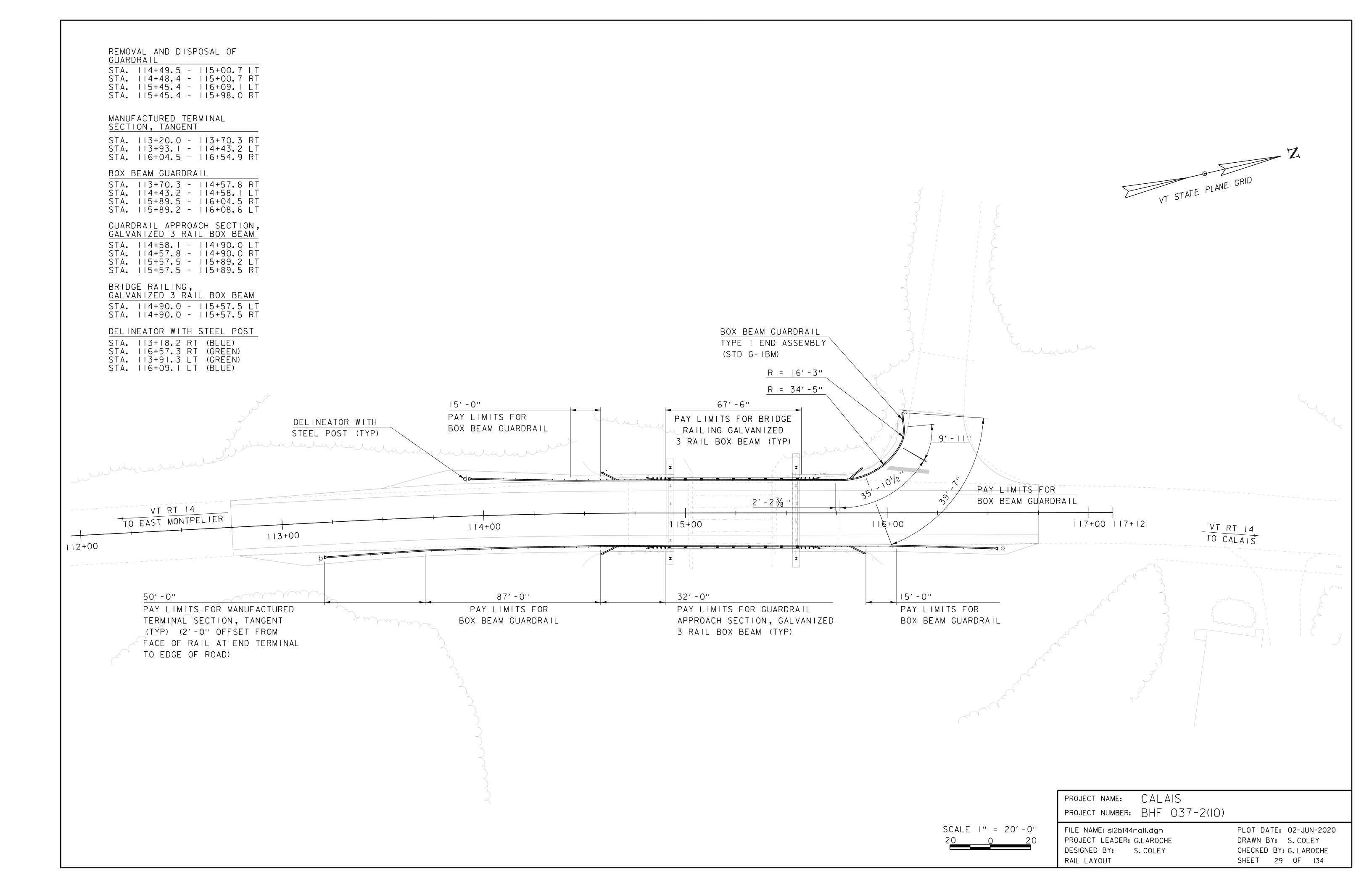
		STATE OF VERMONT		BORING LOG						ring N	lo.:	<u>B-2</u>	
	Trangu			VT	Route 14, Bri	dge 74 Over	r Pekin	Brook	Pag	ge No	· :	3 of	3
		Morking to Get You There MATERIALS & RESEARCH SECTION SUBSURFACE INFORMATION	ON		Calc	ais, Vermont	•		Pin	No.:		s12b14	14
					BHF	037-2(10)	١		Ch	ecked	By:	AS	SP
Borino	g Crew: _	Drilex, JDF			Casing	Sample	er		Groundw	vater	Observo	itions	
		3/17/14 Date Finished: 4/10/14	Type:		<u>Steel</u>	<u>SS</u>	_ [Date	Dep		•	lotes	
	_		I.D.: Hamme	ar Wło	4 in 300 lb.	1.38 i 140 lk	_		<u>(fi</u>				
	S NAD83:	N 668489.68 ft E 1654651.26 ft	Hamme		30 in.	30 in	- 1	03/17/	14 9.0	0	While s	ampling)
Statio		6+58.8 Offset: 20.80 RT		er/Rod Ty		Auto/N							
Groun	d Elevation:	720.0 ft	Rig: _	CME 8	5 Truck	<u>CE = 1</u>	.33						
Depth (ft)	Strata (1)	CLASSIFICATION OF MATER (Description)	RIALS			Run (Dip deg.)	Core Rec. % (RQD %)	Drill Rate minutes/ff	Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %
105 -		A-4, Si, gray, Rec. = 0.83 ft							6-6-11- 13 (17)	- 29.7	7 0.7	2.9	96.4
115 -		SiSa, gray, 115.0 ft — 119.0 ft Possible gravel from 119 to 121.5 feet indicate noise	ed by grii	nding dri	lling				14-18- 21-30 (39)	22.8	3 0.1	52.3	47.6
125 -		121.5 ft — 126.0 ft, Gray, whitish MUSCOVITE—BIOTITE—QUARTZ PHYLLITE, moderately hard to hard, tight joints (typically fresh to slightly weathered with rust color) dipping from 0° to 55° (typically from 25° to 55° with one horizontal joint).											
130 -		On 4/9/2014, relocated boring 5 feet towards from 115 ft. to 126 ft. using Crawford Drilling Hole stopped © 126.0	g Services.	ge and ro	edrilled								
135 -													
140 -	_ - - -												
145 -] - - -												
Notes:	2. N Values have 3. Water level rec Fluctuations of gr	ines represent approximate boundary between material types. Transition may be gradual to not been corrected for hammer energy. CE is the hammer energy correction factor, adings have been made at times and under conditions stated, roundwater may occur due to other factors than those present at the time measurement e elevations indicated on the boring logs were estimated based on the grading plan pr	. CE is an estima ents were made.	aled value.							Pff	960	

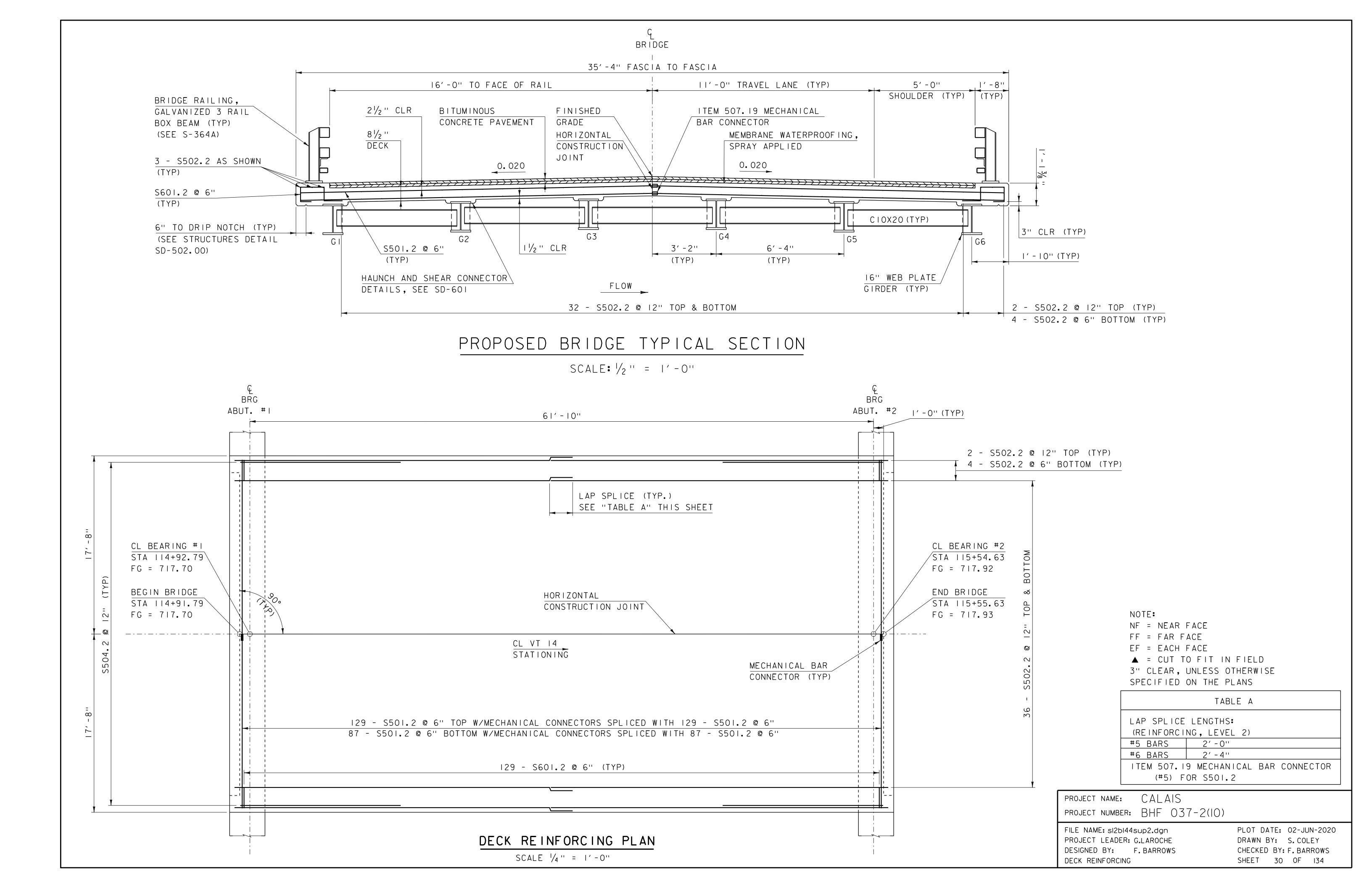
EST. PILE TIP TEL 598.50

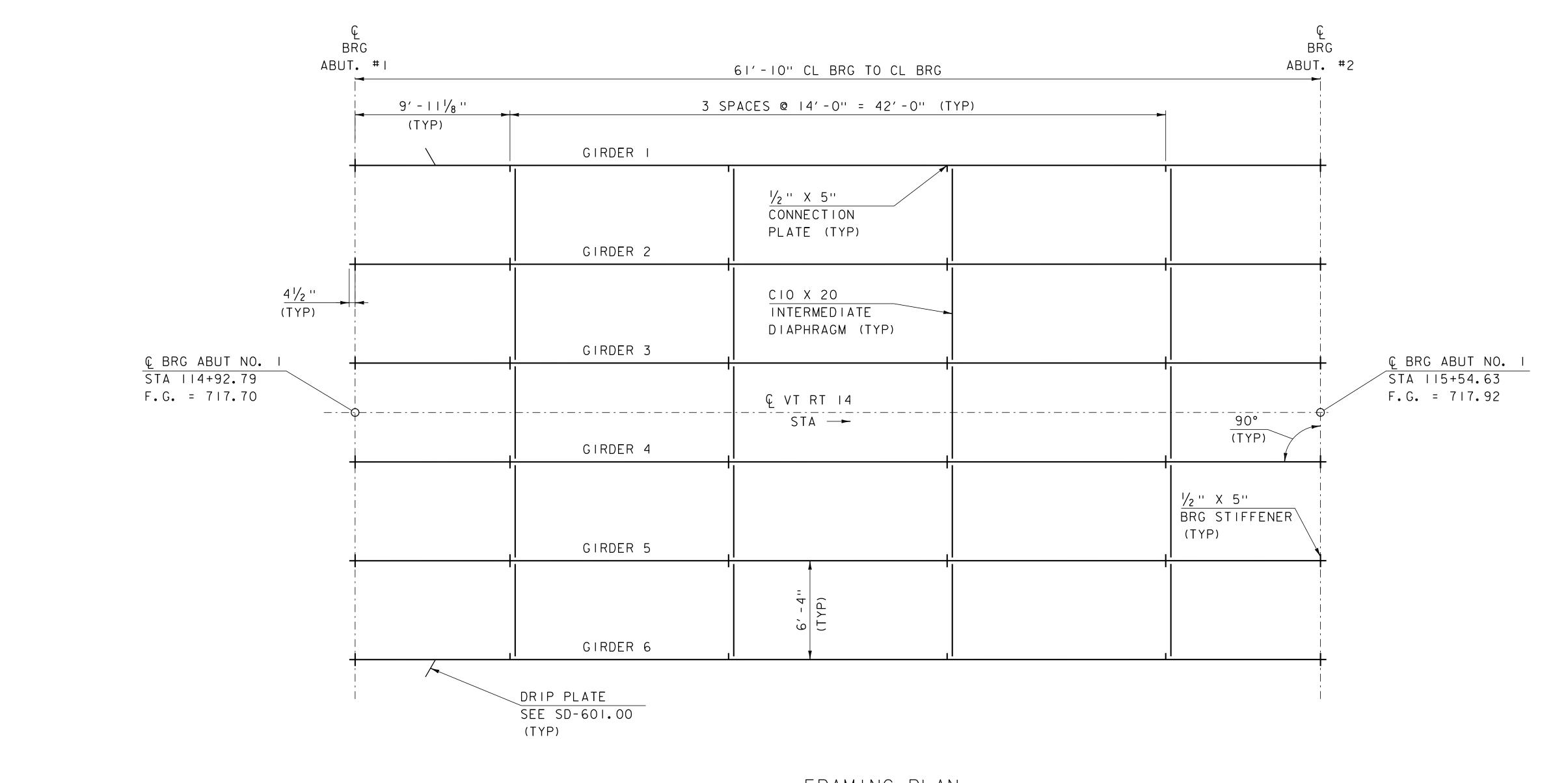
PROJECT NAME:	CALAIS
PROJECT NUMBER:	BHF 037-2(10)

FILE NAME: sl2bl44bor.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
BORING LOG SHEET 3

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: G. LAROCHE
SHEET 28 OF 134

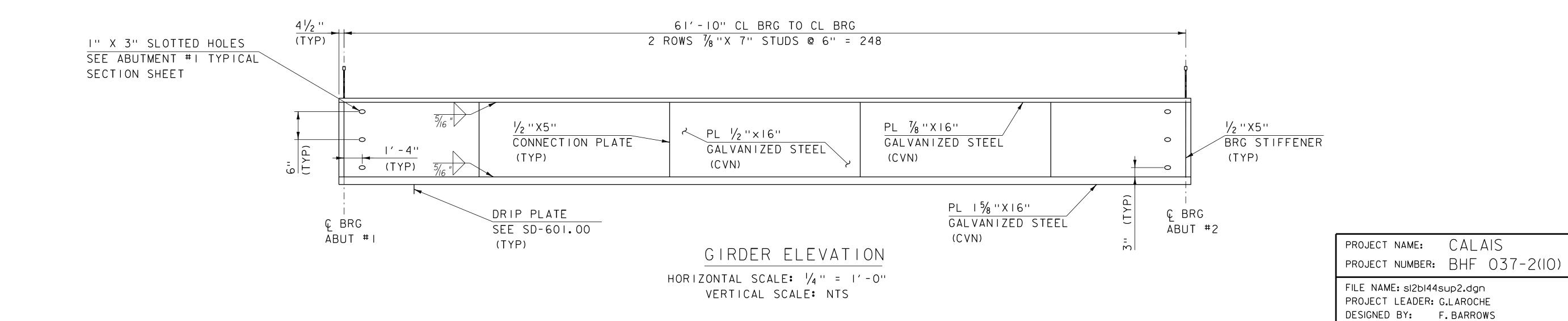






FRAMING PLAN

SCALE: 1/4" = 1'-0"



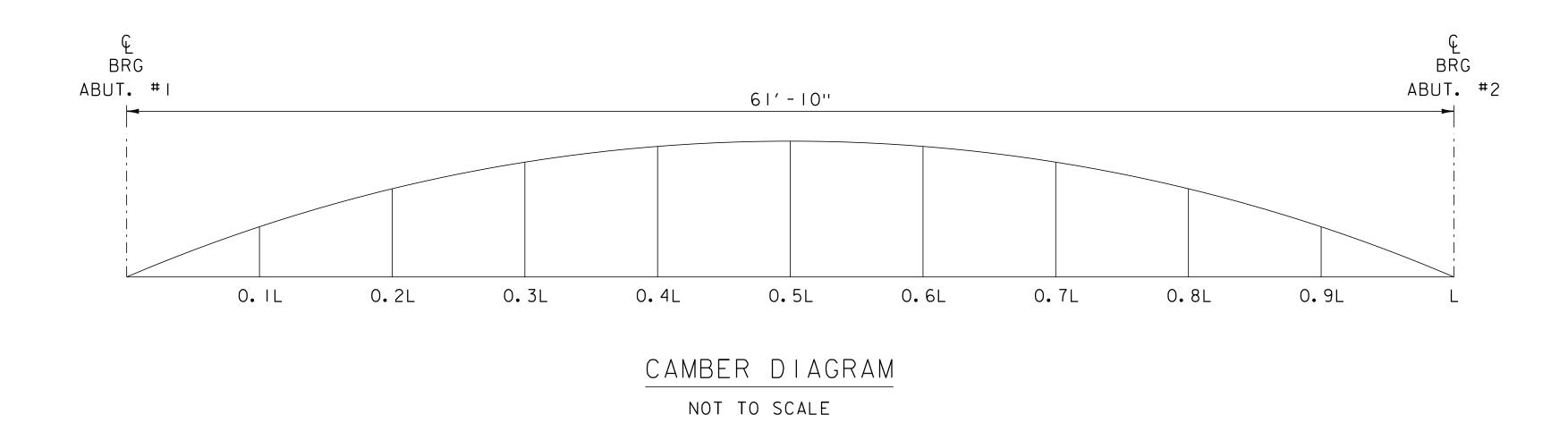
PLOT DATE: 02-JUN-2020

CHECKED BY: F. BARROWS

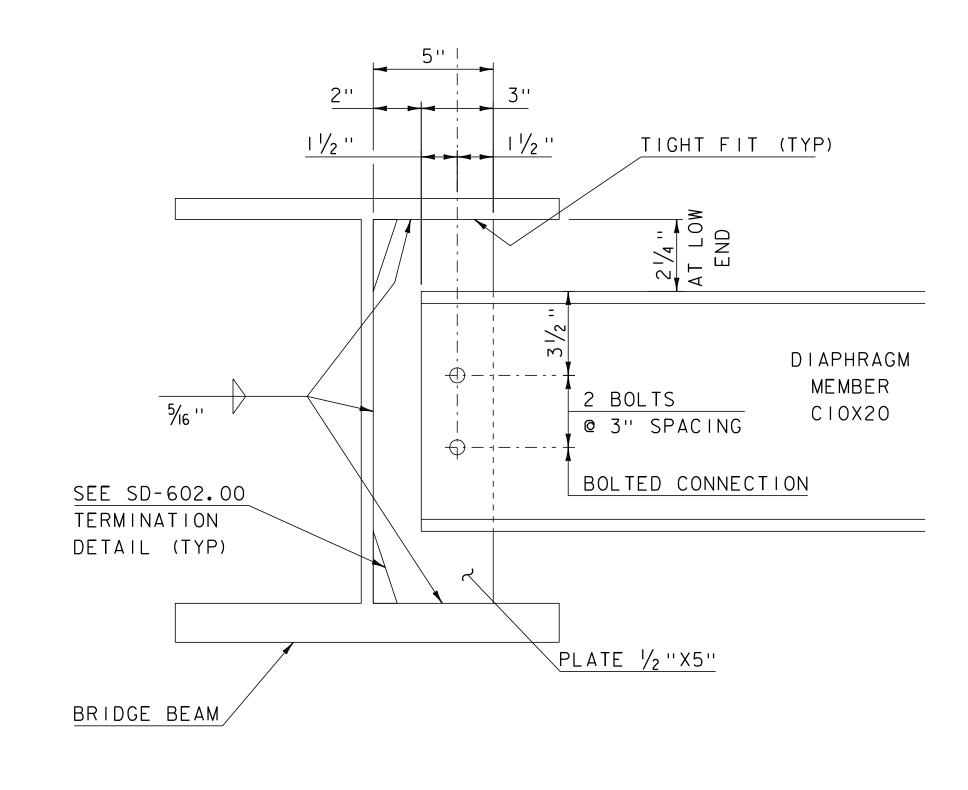
SHEET 31 OF 134

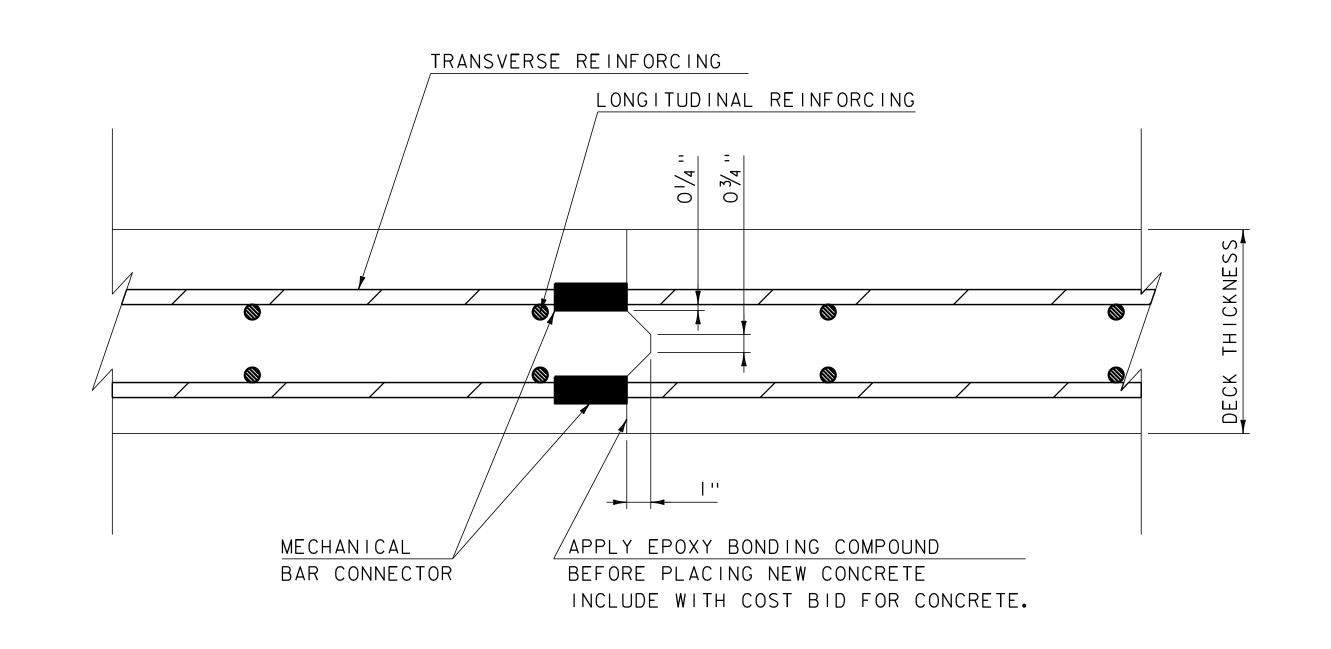
DRAWN BY: S. COLEY

FRAMING PLAN



DOINT ON CIDDED	СА	CAMBER TABLE AT IOTH POINTS (INCHES)									
POINT ON GIRDER	0. IL	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L		
STEEL DL	3/16	3/8	9/16	5/8	11/16	5/8	9/16	3/8	3/16		
CONCRETE SLAB DL	13/16	1 5/8	23/16	2 %	2 11/16	2 %	23/16	I 5/8	13/16		
SUPERIMPOSED DL	1/8	1/4	5/16	3/8	3/8	3/8	5/16	1/4	1/8		
TOTAL CAMBER	I 3/16	2 3/16	31/16	3 %	3 3/4	3 %	31/16	2 3/16	1 3/16		





LONGITUDINAL BRIDGE SLAB
CONSTRUCTION JOINT DETAILS

SCALE 3"=1'-0"

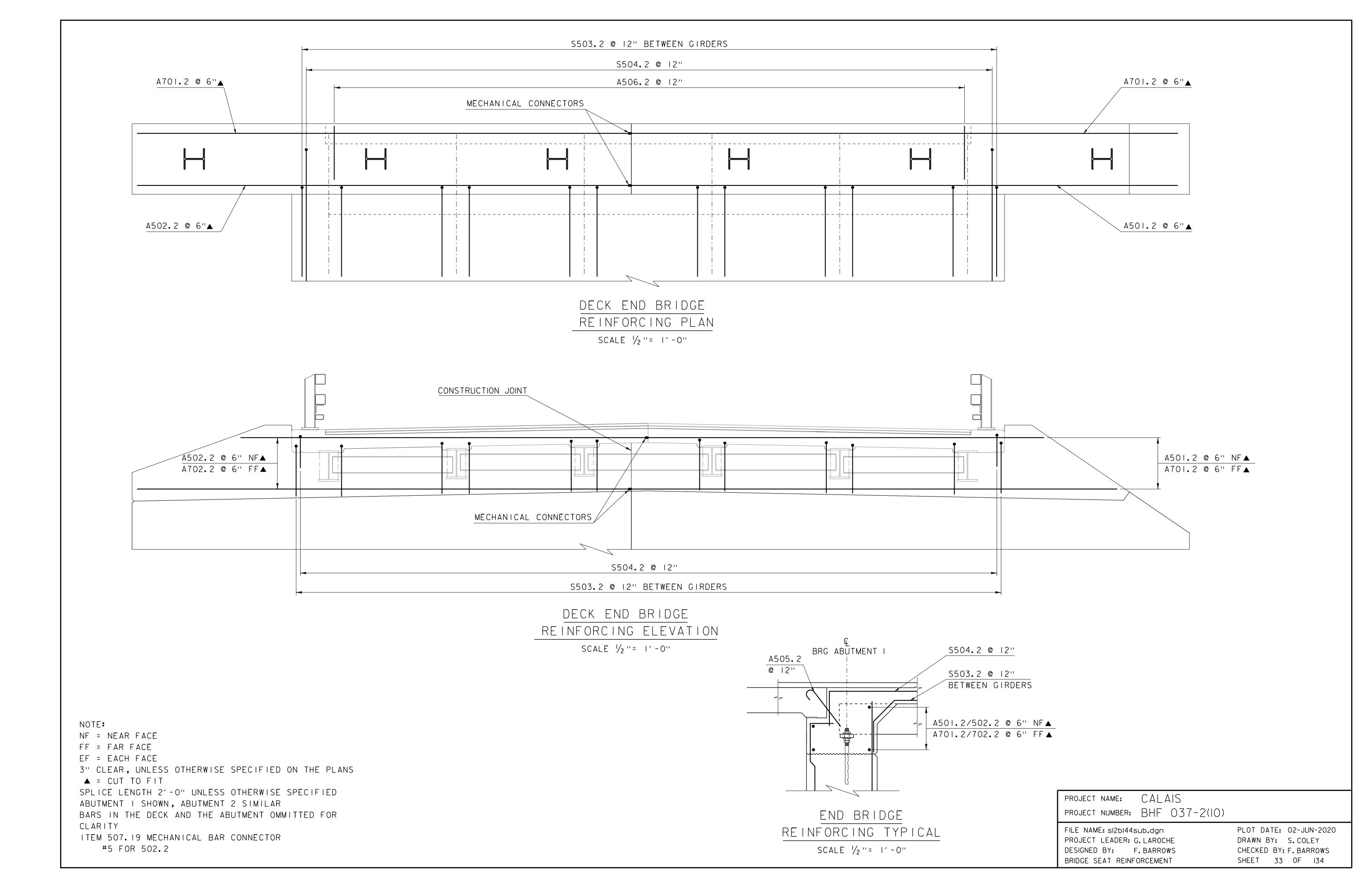
DIAPHRAGM DETAIL

SCALE 3"=1'-0"

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

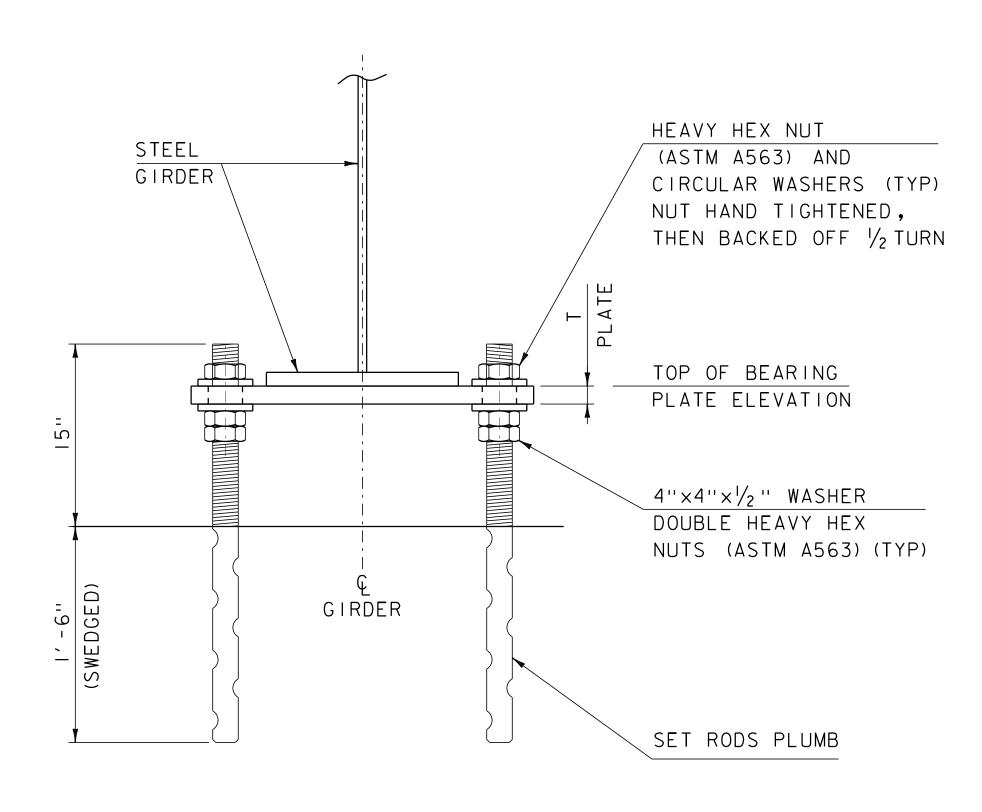
FILE NAME: si2bi44sup2.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: F. BARROWS
SUPERSTRUCTURE DETAILS

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: F. BARROWS
SHEET 32 OF 134



TEMPORARY BEARING NOTES

- I. PAYMENT FOR BEARING PLATES, ANCHOR BOLTS, WASHERS, NUTS AND MORTAR TYPE IV SHALL BE INCIDENTAL TO ITEMS 506.55 STRUCTURAL STEEL, PLATE GIRDER.
- 2. BEARING PLATES SHALL BE LEVEL PRIOR TO SETTING GIRDERS.
- 3. STEEL IN THE BEARING PLATE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M270 GR 50. ASSEMBLY DOES NOT NEED TO BE GALVANIZED.
- 4. STEEL IN THE ANCHOR BOLTS SHALL CONFORM TO THE THE REQUIREMENTS OF ASTM F 1554, GRADE 36.



IEMPORARY BEARING ASSEMBLY ELEVATION N. T. S.

	(TYP)	
	S (TYP)	
		STEEL GIRDER
		BEARING STIFFENER
BRG ***		BEARING PLATE TXWXL
	GIRDER	D DIA HOLE IN BEARING PLATE (TYP)
		ROD (TYP)

TEMPORARY BEARING ASSEMBLY PLAN N. T. S.

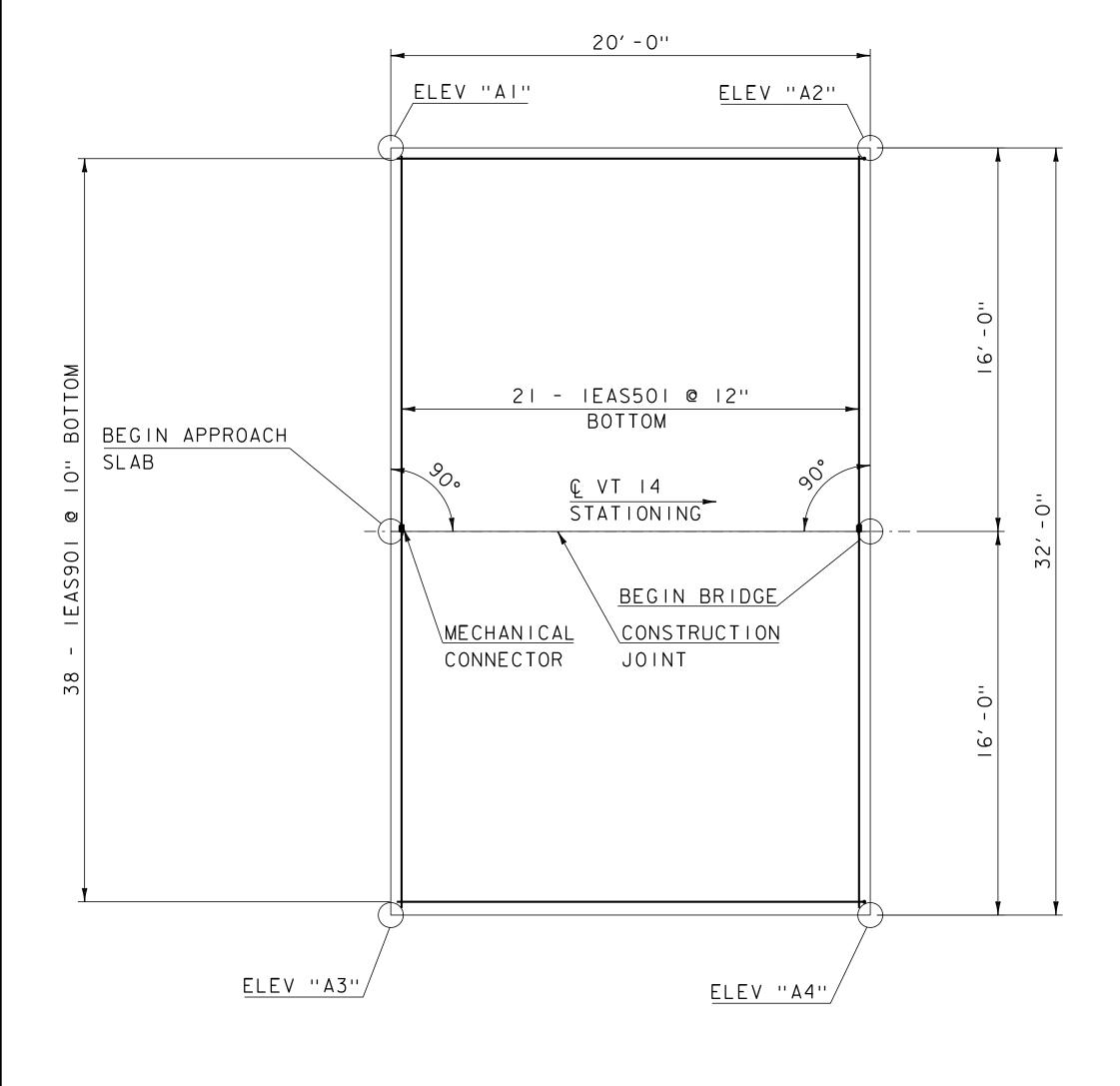
T	2''
W	8''
L	2'-8"
S	'- "
d	2''
D	2 1/2 ''

PROJECT NAME:	CALAIS
PROJECT NUMBER:	BHF 037-2(10)

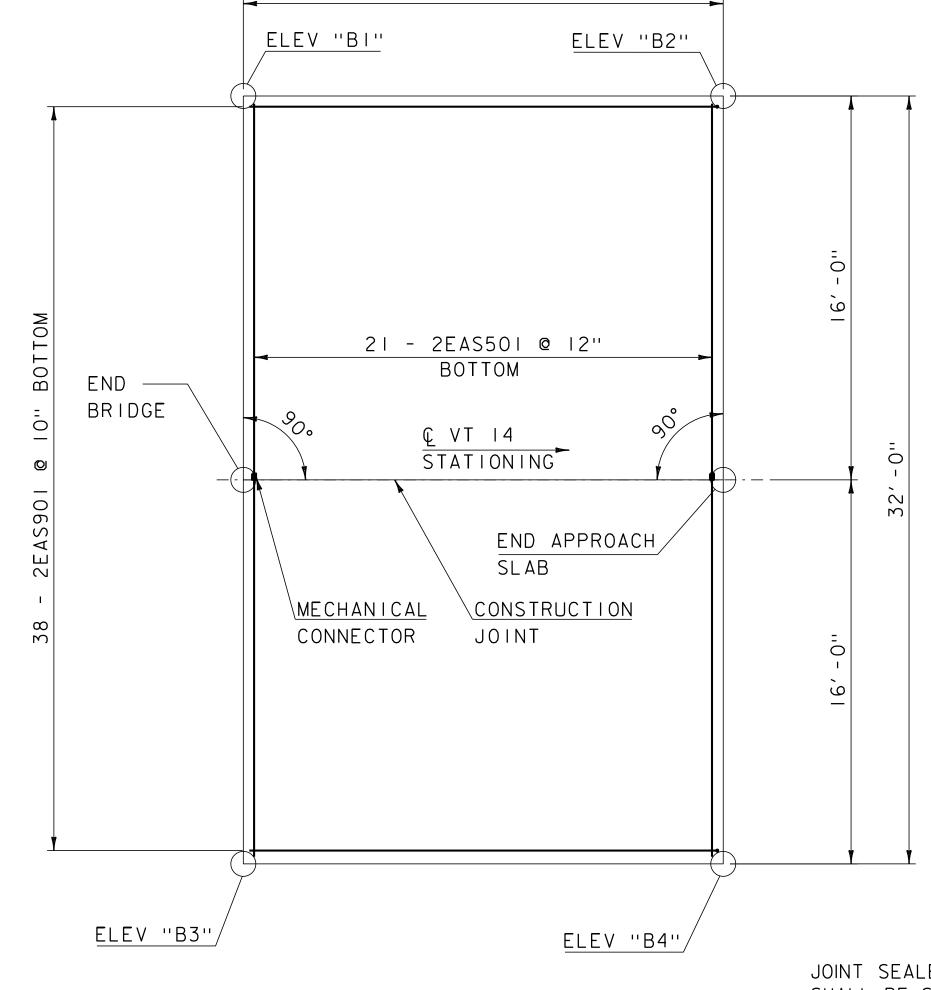
FILE NAME: sl2bl44brg.dgn
PROJECT LEADER: G. LAROCHE
DESIGNED BY: F. BARROWS
BEARING DETAILS

PLOT DATE: 02-JUN-2020 DRAWN BY: S.COLEY CHECKED BY: A.LEMIEUX SHEET 34 OF 134

THEORETICAL TOP OF		
BEARING PLATE ELEVATION		
	ABT I	ABT 2
GIRDER I	714.75	714.97
GIRDER 2	714.87	715.10
-GIRDER 3	715.00	715.23
GIRDER 4	715.00	715.23
GIRDER 5	714.87	715.10
GIRDER 6	714.75	714.97



OTHERWISE SPECIFIED



20' -0"

OFFSET STATION ELEVATION 717.15 114+91.79 | 16.00' LT 717.13 BEGIN AS I 114+71.79 717.47 0.00′ BEGIN BRIDGE 114+91.79 0.00' 717.45 114+71.79 | 16.00' RT 717.15 717.13 Δ4 717.36 115+75.63 | 16.00' LT 717.52 END BRIDGE 115+55.63 717.68 0.00' 115+75.63 0.00' 717.84 END AS 2 115+55.63 | 16.00' RT 717.36 В4 717.52

NOTES:

- I. COMPACT THE SUBBASE IN THE AREA UNDER THE APPRAOCH SLAB TO A SMOOTH SURFACE.
- 2. MATERIAL FOR THE POLYETHELENE SHEETING SHALL MEET THE REQUIREMENTS OF SUBSECTION (725.01C) OF THE STANDARD SPECIFICATIONS. PLACE THE SHEETING ON TOP OF THE FINISHED SUBBASE FOR THE FULL LENGTH AND WIDTH OF THE SPPROACH SLAB, AS SHOWN IN THE APPROACH SLAB DETAIL. LAP SHEETING AT LEAST 24 INCHES. PAYMENT INCIDENTAL TO ITEM 900.608 "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, CLASS B)".
- 3. PAYMENT FOR BOND BREAKER SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PAY ITEM 900.608 "SPECIAL PROVISION (HIGH PERFORMANCE CONCRETE, CLASS B)".
- 4. ITEM 507.19 MECHANICAL BAR CONNECTOR #5 EPOXY FOR IEA501 AND 2EA501

APPROACH SLAB NO 1

SCALE: 1/4" = 1'-0"

APPROACH SLAB NO 2

SCALE: 1/4" = 1'-0"

JOINT SEALER, HOT POURED

SHALL BE SLIGHTLY OVER FILLED

THEN WIPED FLUSH W/ A "V" OR

"U" SHAPED SQUEEGEE TO PROVIDE

A I 1/4" WIPE ZONE EACH

SIDE OF JOINT

TOP COURSE

OF PAVEMENT

78" DIA. HEAT RESISTANT FOAM BACKER ROD.

COMPRESSION FIT REQUIRED TO ENSURE THAT

THE ROD POSITION IS MAINTAINED DURING

FILLING OPERATION. COST TO BE INCLUDED

WITH UNIT PRICE BID FOR JOINT SEALER.

PAVEMENT SURFACES TO BE
SANDBLASTED ON BOTH
SIDES OF JOINT

BACKER ROD.
ENSURE THAT
D DURING
E INCLUDED

3/4" SAWCUT *

ROADWAY SURFACE

PAVEMENT SURFACES TO BE
SANDBLASTED ON BOTH
SIDES OF JOINT

1/4" WIDE × 1/2" DEEP SAW CUT INTO
BOTTOM COURSE OF PAVEMENT TO
BE MADE DURING THE SAME
WORKDAY AS PLACEMENT

SAWED PAVEMENT JOINT DETAIL

NOT TO SCALE

- I) 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 THE 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.

 2) SAWED PAVEMENT JOINTS SHALL BE LOCATED BETWEEN THE APPROACH SLABS AND EACH END OF BRIDGE AND BETWEEN THE APPROACH SLABS AND ANY PAVED APRONS FOR DRIVES.
- * SAWED PAVEMENT JOINT AT APRON SALL BE CUT TO FULL PAVEMENT DEPTH.

PROJECT NAME: CALAIS

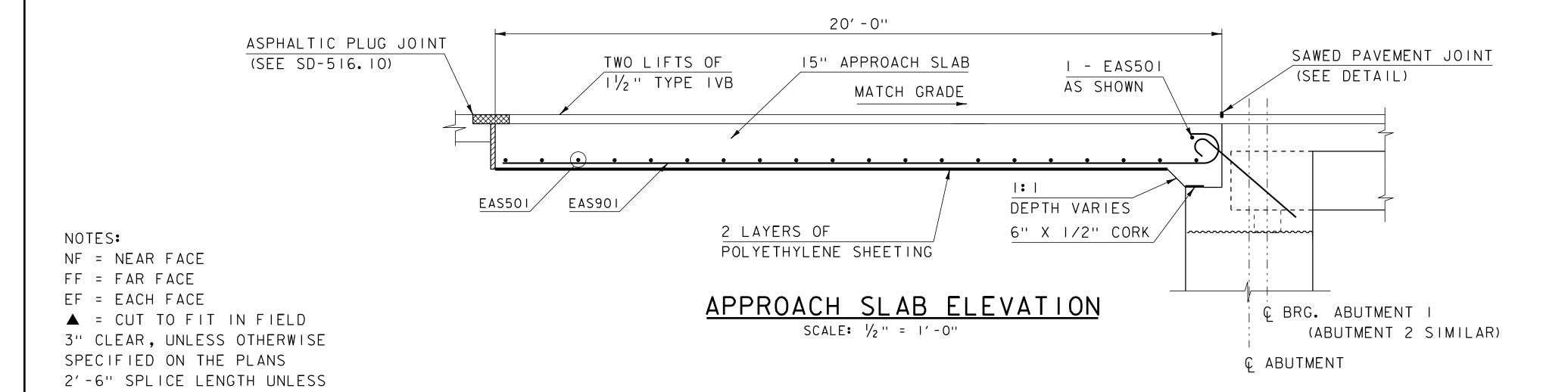
PROJECT NUMBER: BHF 037-2(10)

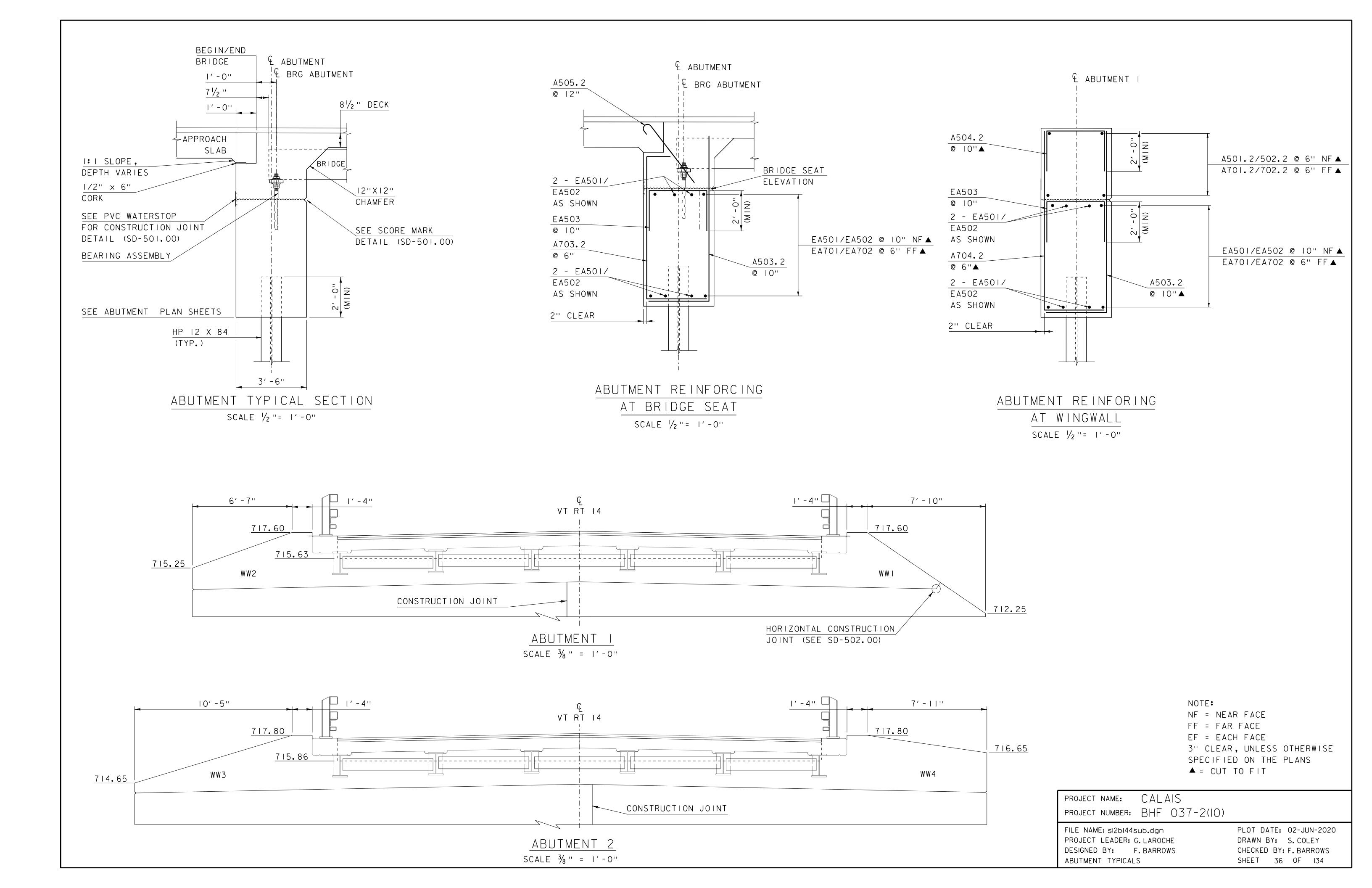
FILE NAME: si2bi44appsiab.dgn PLOT DATE: 02-JUN-2020

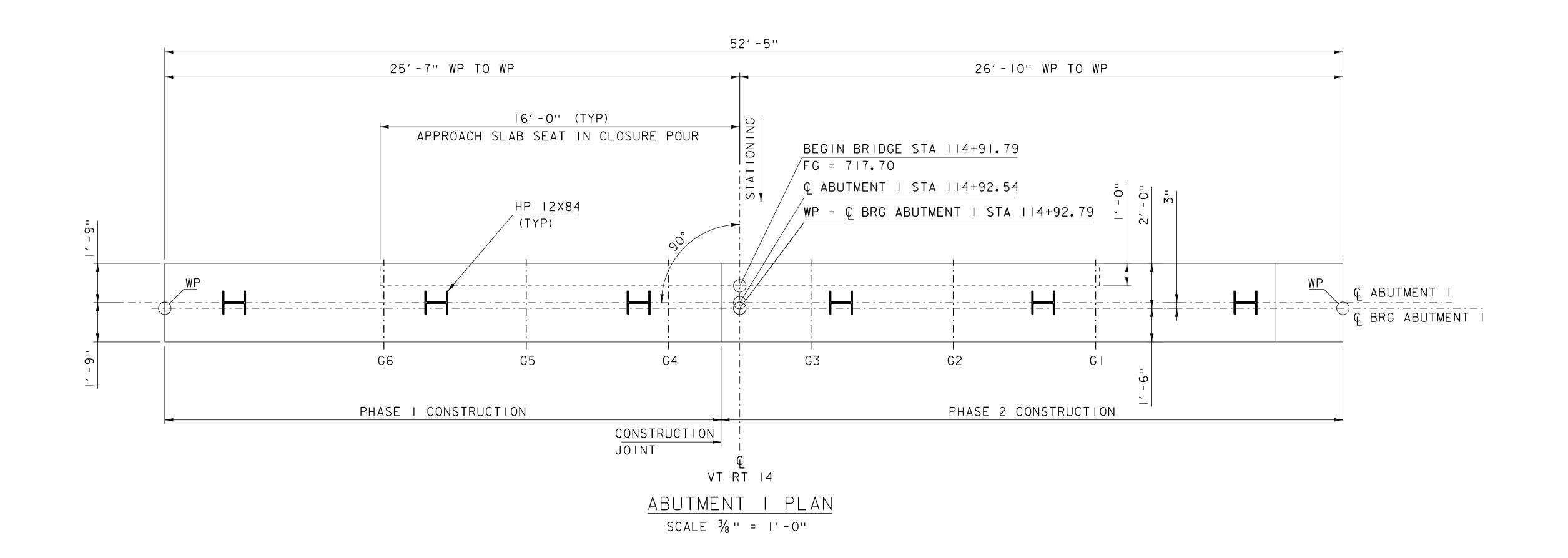
PROJECT LEADER: G. LAROCHE DRAWN BY: S. COLEY

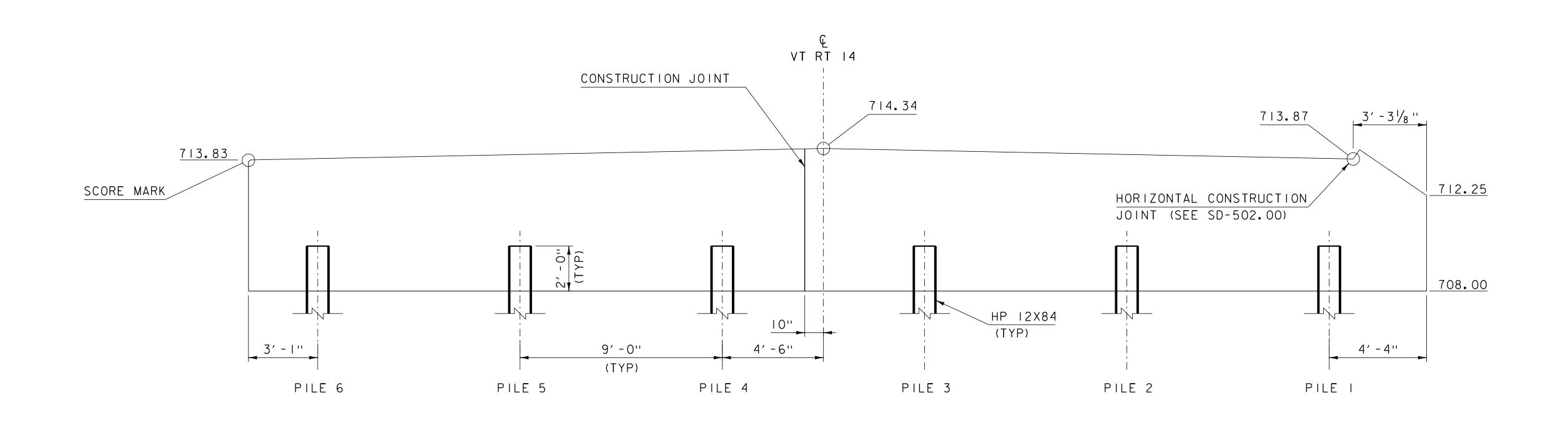
DESIGNED BY: F. BARROWS CHECKED BY: A. MANN

APPROACH SLAB DETAILS SHEET 35 OF 134









ABUTMENT I ELEVATION

PROJECT NAME: CALAIS

FILE NAME: sl2bl44sub.dgn

ABUTMENT I PLAN

PROJECT LEADER: G. LAROCHE

DESIGNED BY: F.BARROWS

PROJECT NUMBER: BHF 037-2(10)

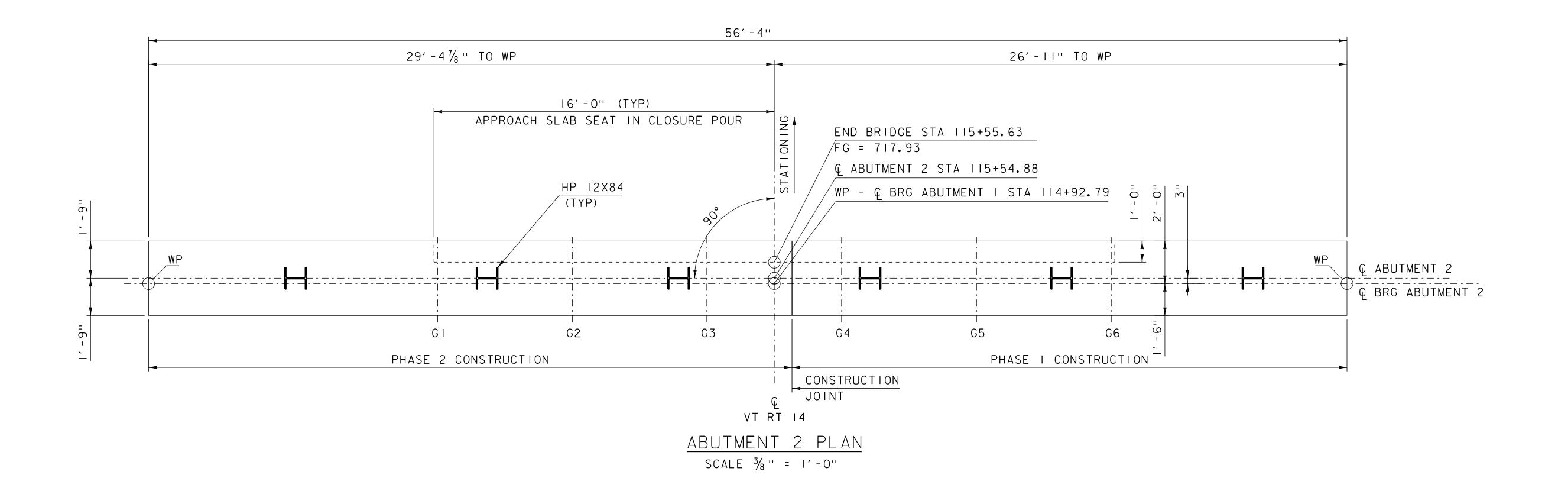
PLOT DATE: 02-JUN-2020

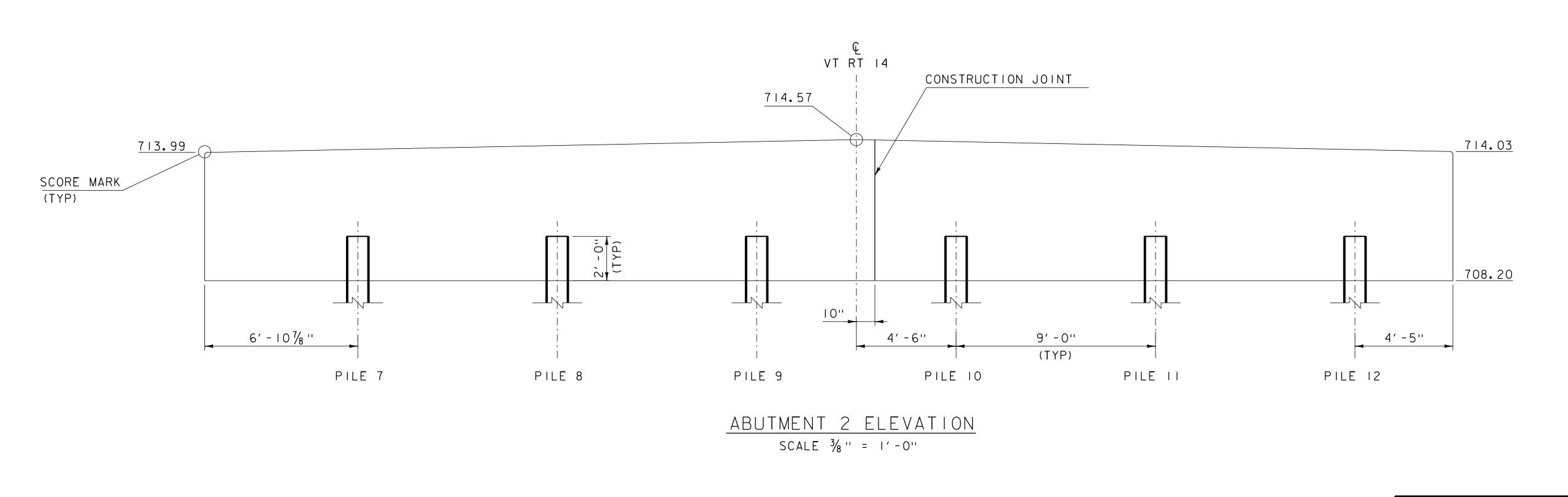
DRAWN BY: S. COLEY

CHECKED BY: F. BARROWS

SHEET 37 OF 134

SCALE 3/8" = 1'-0"





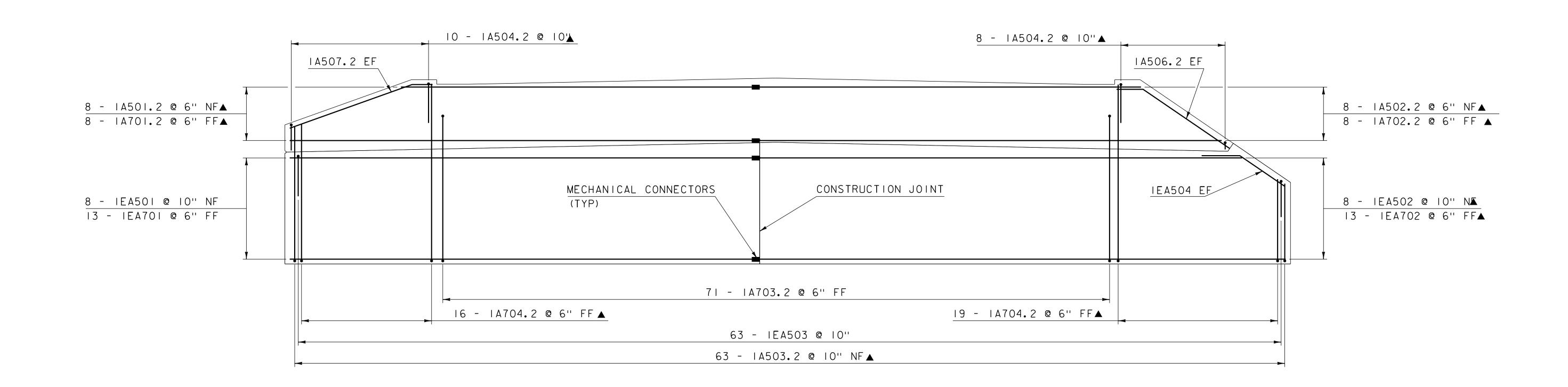
PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(10)

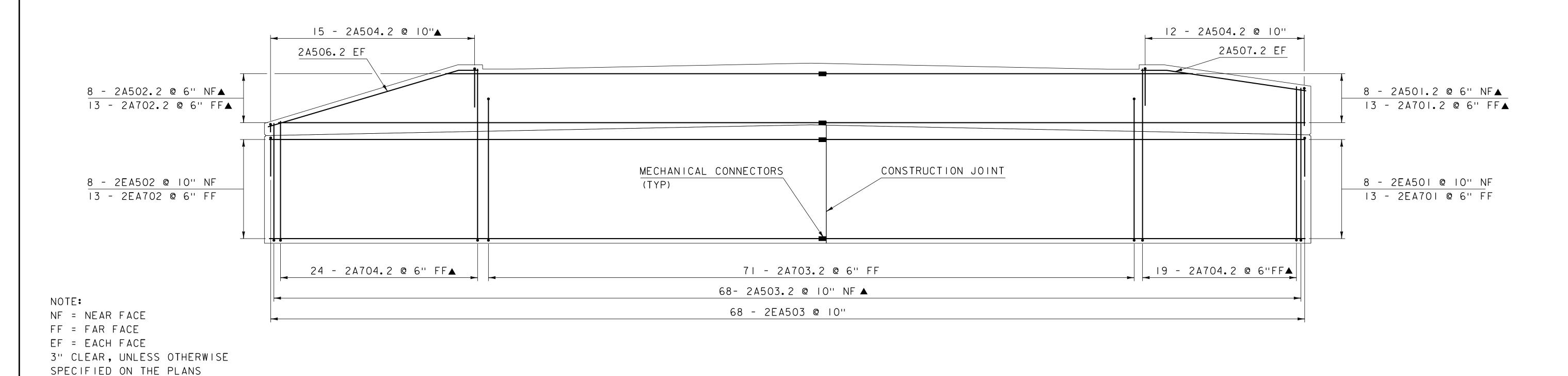
FILE NAME: sI2bI44sub.dgn
PLOT DATE: 02-JUN-2020
PROJECT LEADER: G. LAROCHE
DESIGNED BY: F. BARROWS
ABUTMENT 2 PLAN

CALAIS

PLOT DATE: 02-JUN-2020
DRAWN BY: S. COLEY
CHECKED BY: G. LAROCHE
SHEET 38 OF 134



ABUTMENT | REINFORCING SCALE 3/8" = 1'-0"



ABUTMENT 2 REINFORCING

SCALE 3/8" = 1'-0"

▲ = CUT TO FIT

CONNECTOR

#5 = 2'-0" SPLICE LENGTH

#6 = 2'-4" SPLICE LENGTH

#7 = 2'-9" SPLICE LENGTH

ITEM 507.19 MECHANICAL BAR

#5 EPOXY FOR E501 AND #5 FOR 501.2

#7 EPOXY FOR E701 AND #7 FOR 701.2

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44sub.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: F.BARROWS
ABUTMENT REINFORCING

PLOT DATE: 02-JUN-2020 DRAWN BY: S.COLEY CHECKED BY: F.BARROWS SHEET 39 OF 134

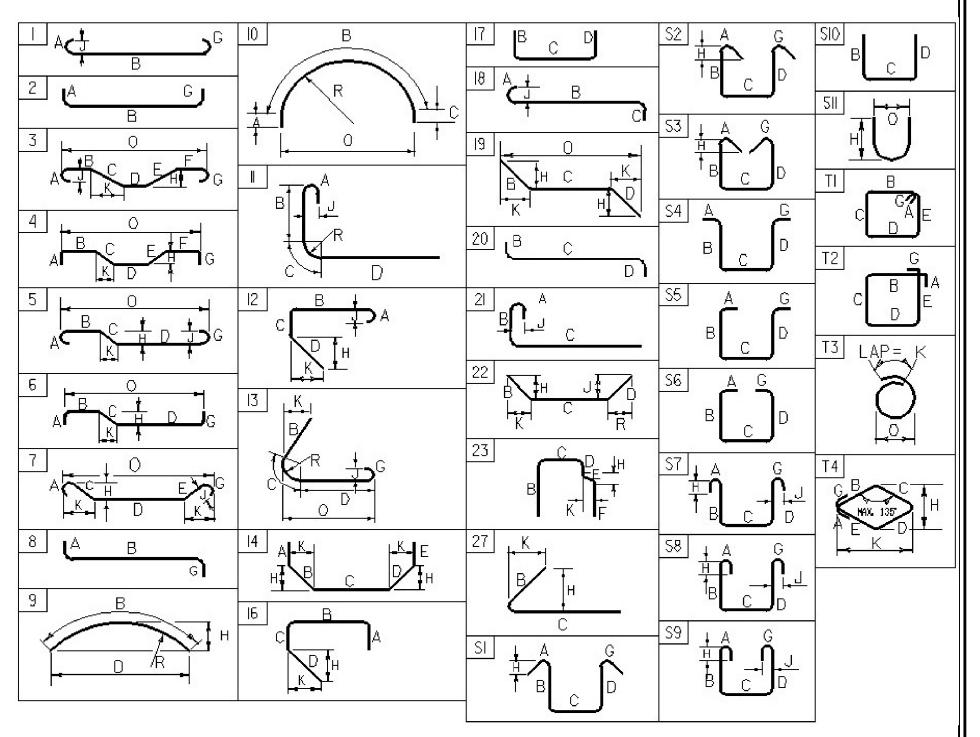
STATE OF VERMONT

RFINFORCING STEEL SCHEDULE

			E OF V F TRA				N							RI		NFC	DRC		NG	S			EL	S	C	HE	D
ITEM	EACH S	IZE LENG	H MARK	TYPE	A	В	С	D	E	F	G	Н	J	K R	0	ITEM EACH SIZE	LENGTH MARK	TYPE	АВ	С	D	E	F G	Н	J	K R	0
*	43		3 1 " 1EAS50 " 1EAS90										1'- 0"														
	42		3 2 " 2EAS50 " 2EAS90										1'- 0"														
*	DECK 513	5 17'- 5	" S501.2	STR	17'- 5"																						
	60 72	5 33'- 8 5 6'- 7 5 18'- 0 6 4'- 3	" S503.2 " S504.2	22 17		2'- 7" 2'- 0"	16'- 0"				1'- 0"		1'- 10"	1'- 10" 1'- 10"													
*	ABUTME	ENT 1 5 24'- 6	" 1EA501	STR	24'- 6"																						
*	63 2 13	5 27'- 5 5 7'- 1 5 4'- 9 7 24'- 6	" 1EA503 " 1EA504 " 1EA701	S10 22 STR	24'- 6"	2'- 0" 2'- 0"	3'- 1" 2'- 9"	2'- 0"				1'- 1"		1'- 8"													
* •	9	5 22'- 3	" 1EA702 " 1A501.2 " 1A502.2	STR	22'- 3"																						
A	63 18 33	5 12'- 2 5 7'- 1 5 3'- 6	" 1A503.2 " 1A504.2 " 1A505.2	2 17 2 S10 2 1	0'- 7''	3'- 1" 2'- 0" 2'- 11"		2'- 0"					0'- 5"	0. 441													
	9	5 7'- 1 7 22'- 3	" 1A506.2 " 1A507.2 " 1A701.2 " 1A702.2	2 22 2 STR	22'- 3"	1'- 1"	5'- 10" 6'- 9"					0'- 7''		0'- 11"													
A	71 35	7 11'- 8 7 12'- 2	" 1A703.2 " 1A704.2	2 17		1'- 2"	7'- 5" 9'- 1"	3'- 1"																			
	12 68	5 25'- 1 5 30'- 0 5 7'- 1	2EA501 2EA502 2EA503	STR S10	30'- 0"	2'- 0"	3'- 1"	2'- 0"																			
	12	7 30'- 0	2EA701 2EA702 2A501.2	STR	30'- 0"																						
	8 68 27	5 30'- 0 5 12'- 2 5 7'- 1	" 2A502.2 " 2A503.2 " 2A504.2	STR 2 17 2 S10	30'- 0"	3'- 1" 2'- 0"	9'- 1" 3'- 1"	2'- 0"					OL EII														
A	2 2 8	5 11'- 8 5 8'- 1 7 25'- 1	" 2A505.2 " 2A506.2 " 2A507.2 " 2A701.2	2 22 2 22 2 STR	25'- ¹⁰ '	1'- 1" 1'- 1"	10'- 7'' 7'- 9''					0'- 4'' 0'- 2''	0'- 5"	1'- 0" 1'- 1"													
A	71	7 11'- 9	" 2A702.2 " 2A703.2 " 2A704.2	2 17				3'- 1"																			

~ NOTES ~

- 1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
- 2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
- 3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- 4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
- 5. "J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
- 6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
- 7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
- 8. A DENOTES BARS TO BE CUT IN FIELD.
- 9. * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
- 10. \triangle DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
- 11. E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD DEINICODCINIC DADO

R	EINFC	RCINC	BAR	S
BARSIZE DESIGNA- TION	WEIGHT POUNDS PERFOOT	NOM IN A L D IM D IA M ETER IN C H E S	ENSIONS RO AREA INCHES 2	UND SECTION PERIMETER INCHES
[#] 3	0.376	0.375	0.11	1.178
[#] 4	0.668	0.500	0.20	1.571
[#] 5	1.043	0.625	0.31	1.963
[#] 6	1.502	0.750	0.44	2.356
[#] 7	2.04	0.875	0.60	2.749
[#] 8	2.670	1.000	0.79	3.14
[#] 9	3.400	1.13	1.00	3.54
[#] 10	4.3	1.270	1.27	3.990
[#] 11	5.31	1.410	1.56	4.430
[#] 14	7.65	1.69	2.25	5.32
[#] 18	13.60	2.26	4.00	7.09

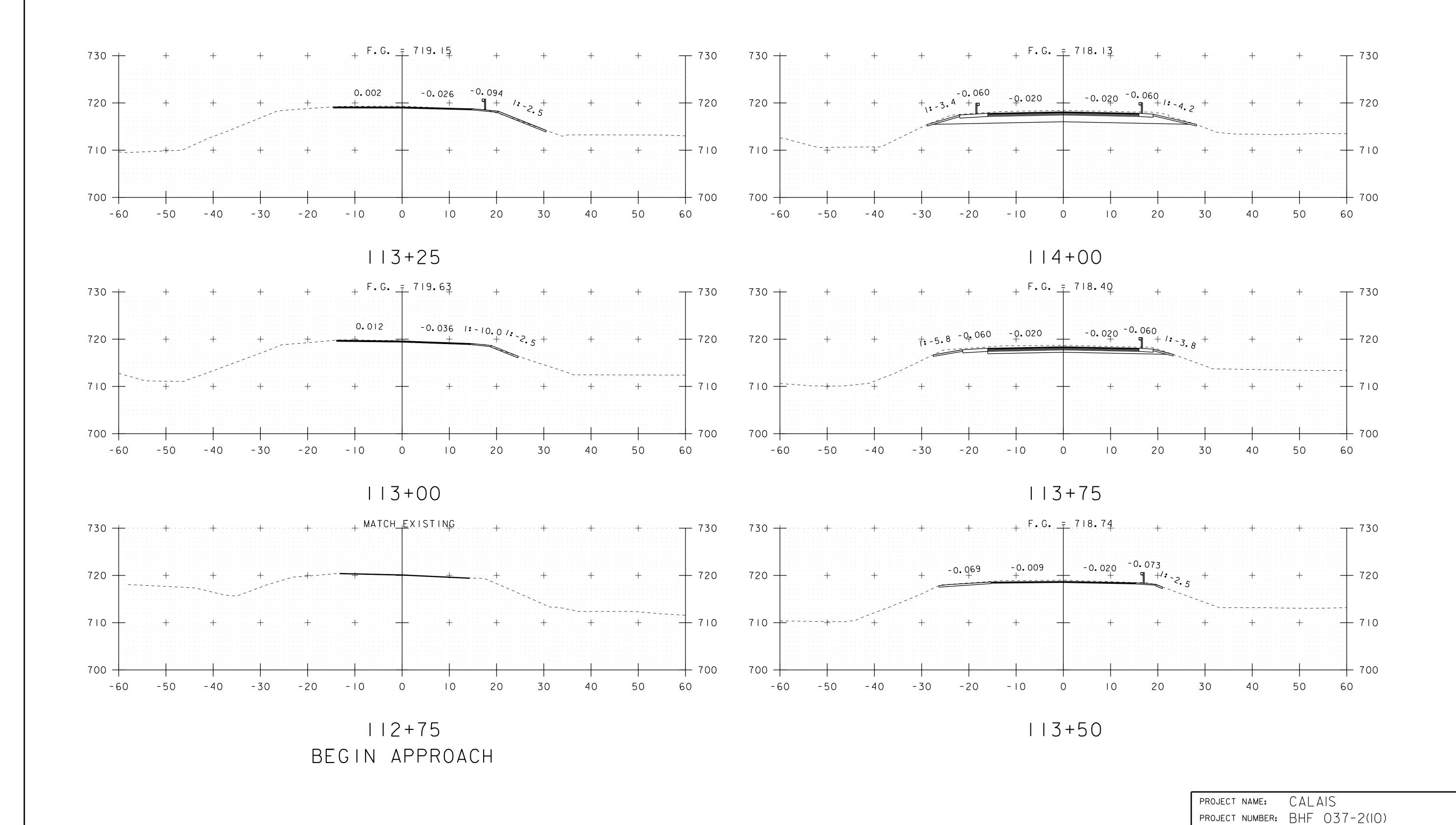
~ REINFORCING STEEL CORROSION RESISTANCE LEVEL ~

THE REINFORCING STEEL MARKS IN THIS SCHEDULE INDICATE THE REQUIRED BAR CORROSION RESISTANCE LEVEL. CORROSION RESISTANCE LEVEL IS DENOTED WITH A .2 FOR LEVEL TWO SUFFIX OR .3 FOR LEVEL THREE SUFFIX, .1 FOR LEVEL ONE IS TO BE OMITTED. THE BAR MATERIAL TYPE AND BAR STEEL GRADE PROVIDED FOR EACH CORROSION LEVEL WILL BE RECORDED ON THE PLAN SET PI SHEET FOR AS-BUILT RECORD PLAN ARCHIVES.

CALAIS PROJECT NAME: PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44rss.dgn PROJECT LEADER: G. LAROCHE DESIGNED BY: C. FRENCH REINFORCING STEEL SCHEDULE

PLOT DATE: 02-JUN-2020 DRAWN BY: C. FRENCH CHECKED BY: S. COLEY SHEET 40 OF 134



FILE NAME: sI2bI44xs.dgn

PROJECT LEADER: G.LAROCHE

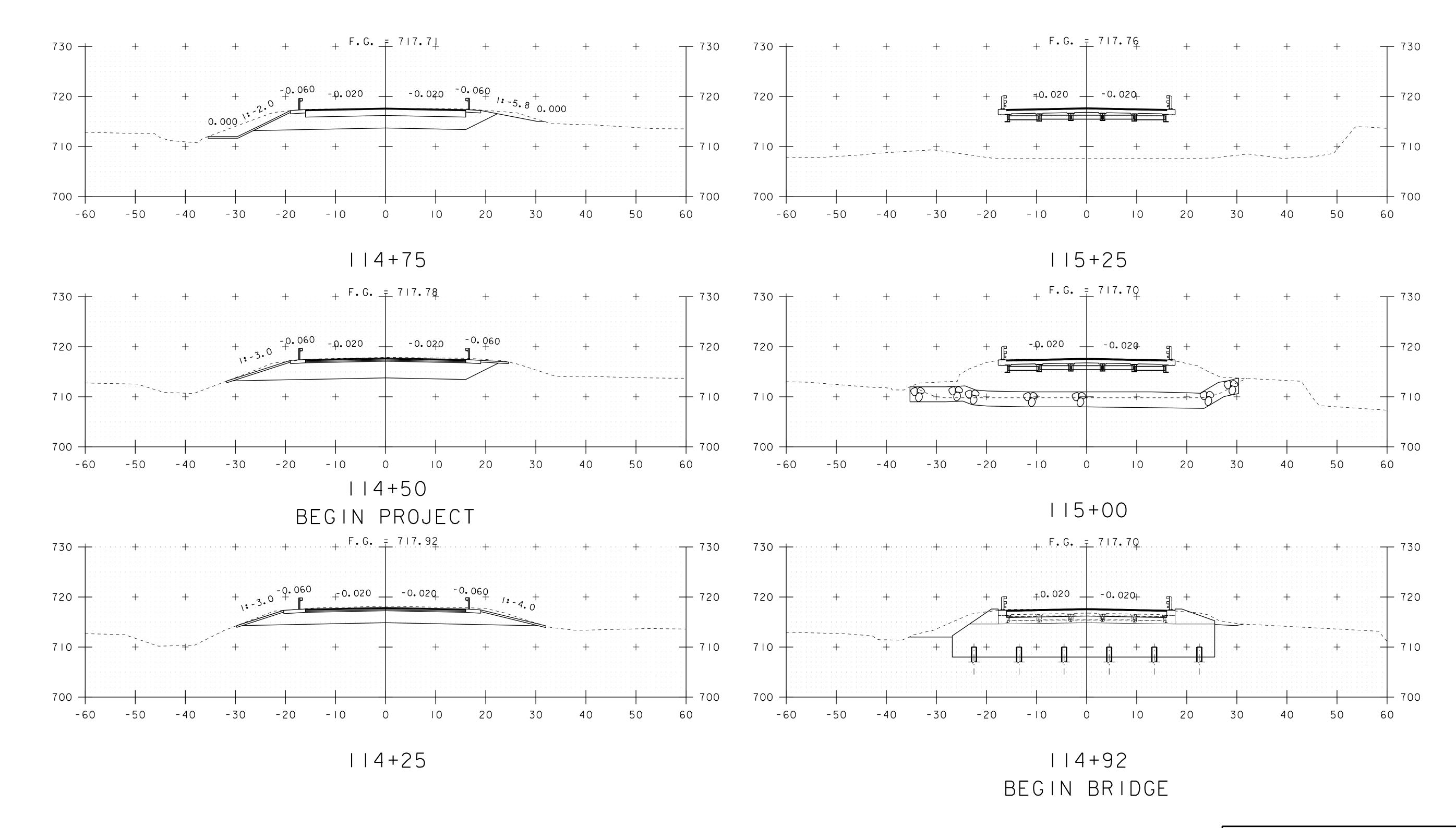
DESIGNED BY: G. LAROCHE

MAINLINE CROSS SECTIONS I

PLOT DATE: 02-JUN-2020

DRAWN BY: G.ROKES
CHECKED BY: G.LAROCHE

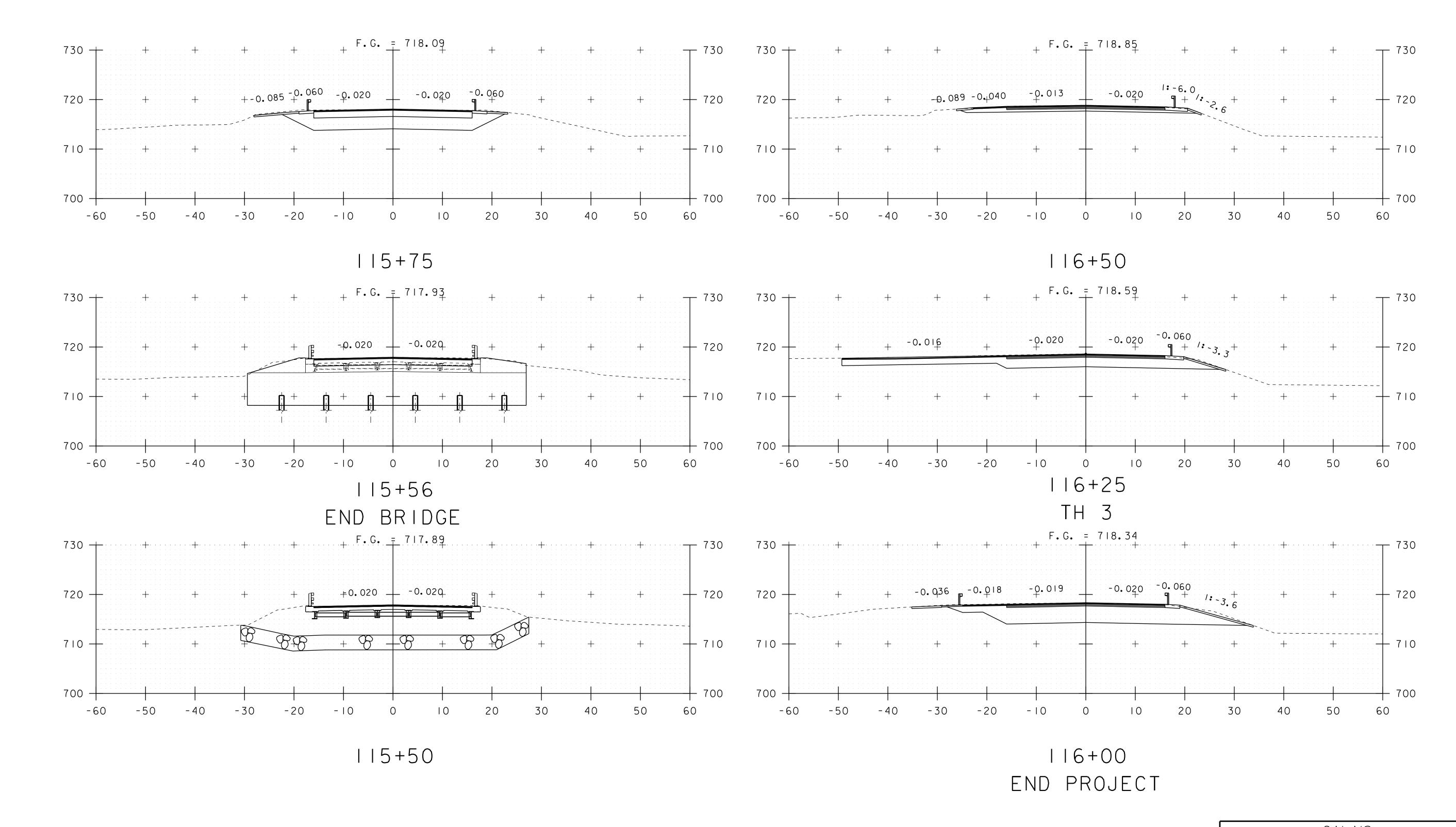
SHEET 4I OF 134



PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44xs.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
MAINLINE CROSS SECTIONS 2

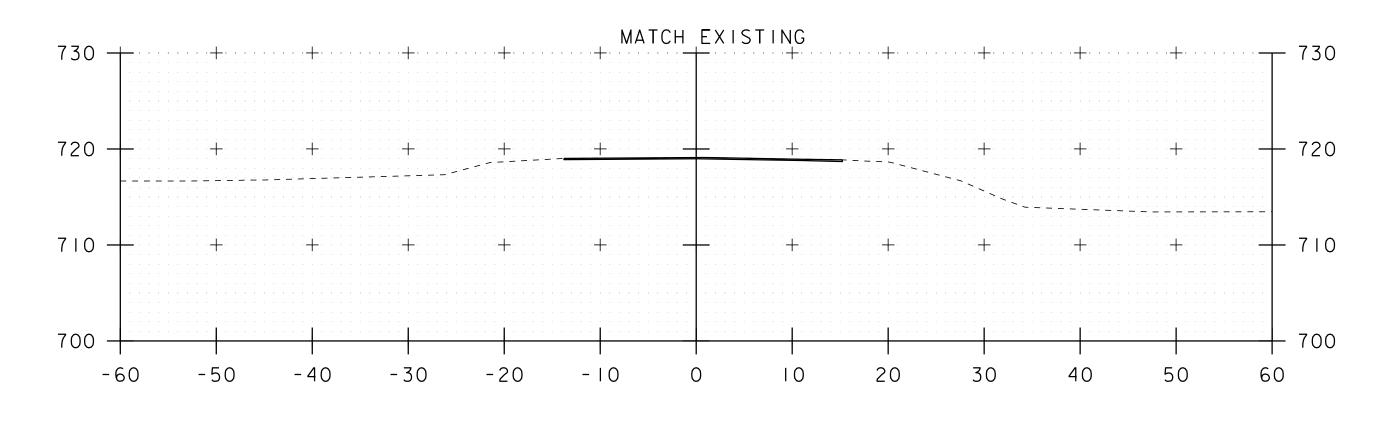
PLOT DATE: 02-JUN-2020 DRAWN BY: G.ROKES CHECKED BY: G.LAROCHE SHEET 42 OF 134



PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44xs.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
MAINLINE CROSS SECTIONS 3

PLOT DATE: 02-JUN-2020 DRAWN BY: G. ROKES CHECKED BY: G. LAROCHE SHEET 43 OF 134



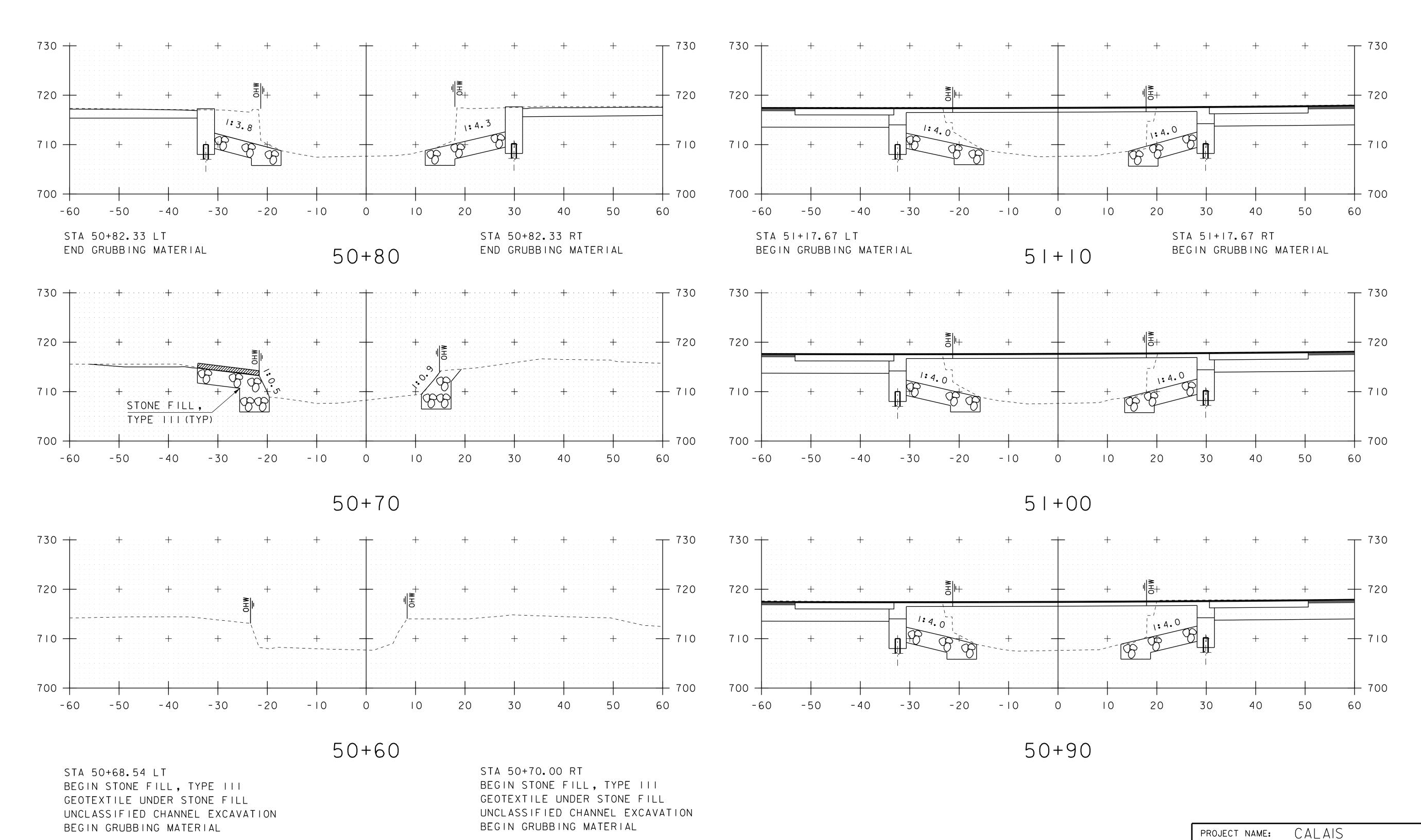
116+75 END APPROACH

PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sl2bl44xs.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
MAINLINE CROSS SECTIONS 4

PLOT DATE: 02-JUN-2020 DRAWN BY: G. ROKES CHECKED BY: G. LAROCHE SHEET 44 OF 134

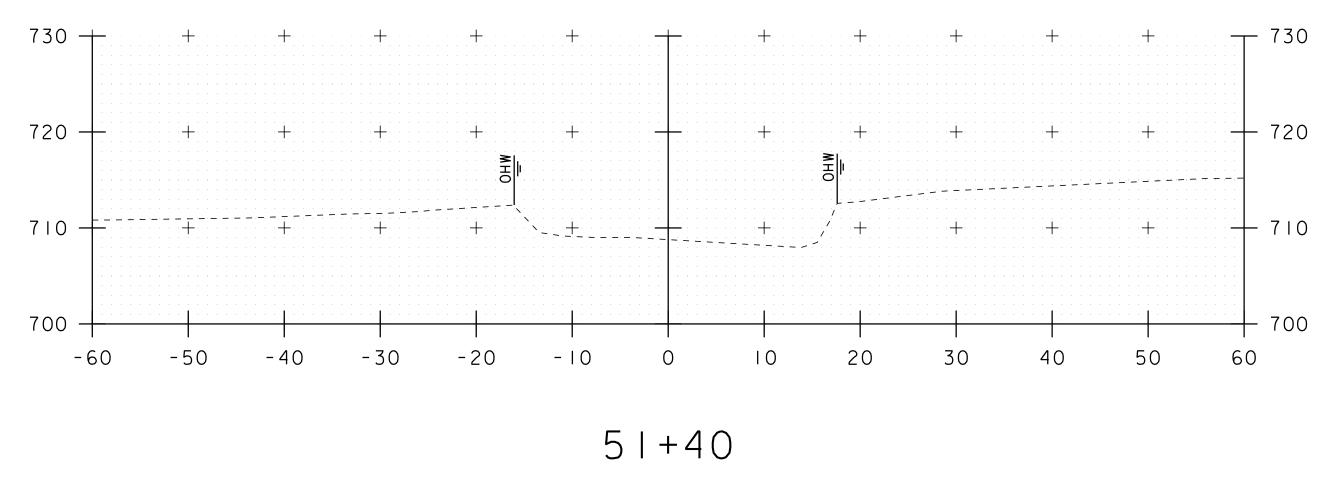


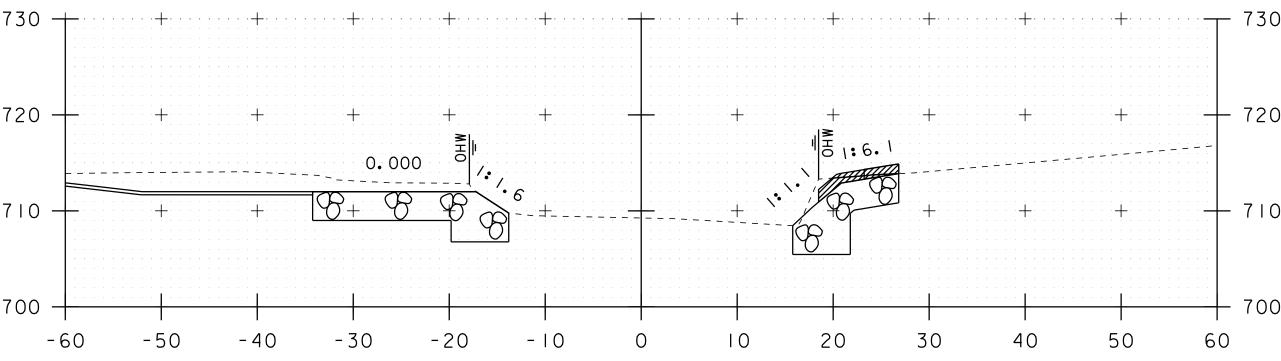
PROJECT NAME: CALAIS

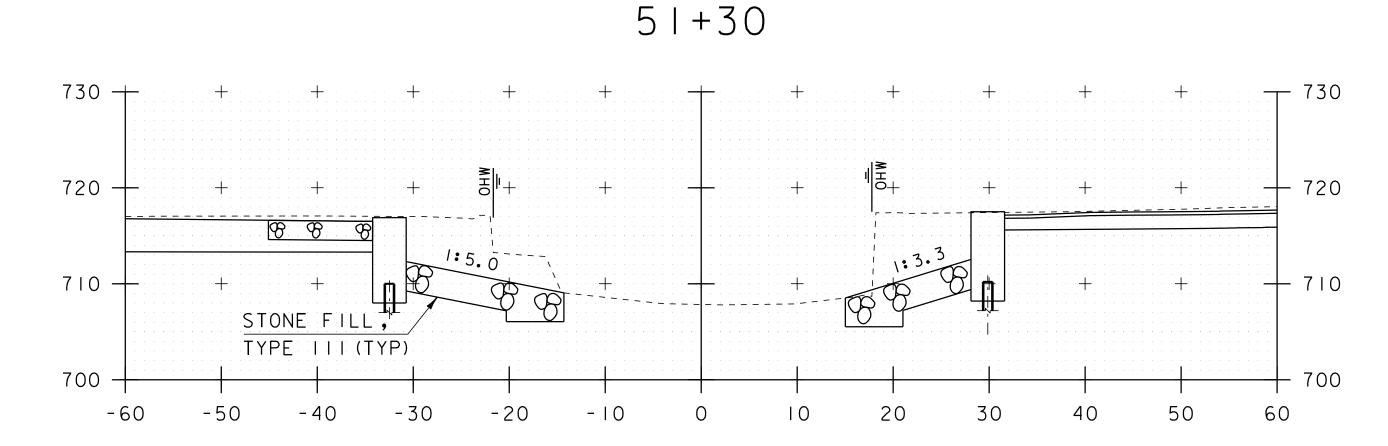
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44xs.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
CHANNEL CROSS SECTIONS I

PLOT DATE: 02-JUN-2020 DRAWN BY: G. ROKES CHECKED BY: G. LAROCHE SHEET 45 OF 134







51+50

51+20

STA 51+35.69 LT
END STONE FILL, TYPE III
GEOTEXTILE UNDER STONE FILL
UNCLASSIFIED CHANNEL EXCAVATION
END GRUBBING MATERIAL

STA 51+33.68 RT
END STONE FILL, TYPE III
GEOTEXTILE UNDER STONE FILL
UNCLASSIFIED CHANNEL EXCAVATION
END GRUBBING MATERIAL

PROJECT NAME: CALAIS
PROJECT NUMBER: BHF 037-2(10)

FILE NAME: sI2bI44xs.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
CHANNEL CROSS SECTIONS 2

PLOT DATE: 02-JUN-2020 DRAWN BY: G.ROKES CHECKED BY: G.LAROCHE SHEET 46 OF 134

	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

02:12:012	, uncline in	1 0012/11102
FERTILIZER	L	IME
10/20/10	AG LIME	PELLITIZED
500 LBS/AC	2 TONS/AC	1 TONS/AC

CONSTRUCTION GUIDANCE

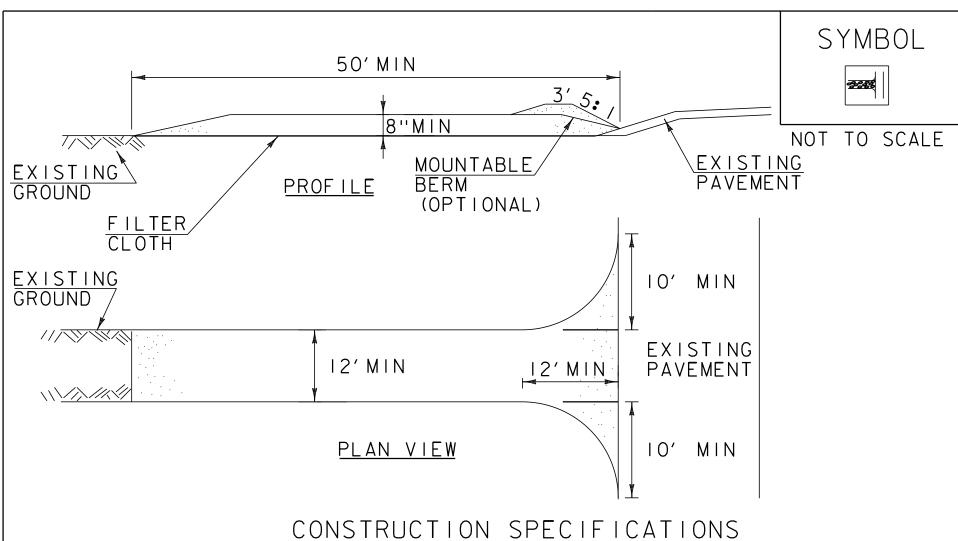
- I.SEED MIX: THE CONTRACTOR SHALL COORDINATE WITH THE RESIDENT ENGINEER ON WHICH SEED MIX TO USE.
- 2.SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
- 3.ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT 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 FI	ROM VTRANS	TECHNICAL LANDSCAPE MANUAL FOR
RO	ADWAYS 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



- I.STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE
- 2.LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
- 3. THICKNESS- NOT LESS THAN 8".

EQUIVALENT.

- 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: I 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 STABILIZED CONSTRUCTION ENTRANCE (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS

MARCH 24, 2008 WHF

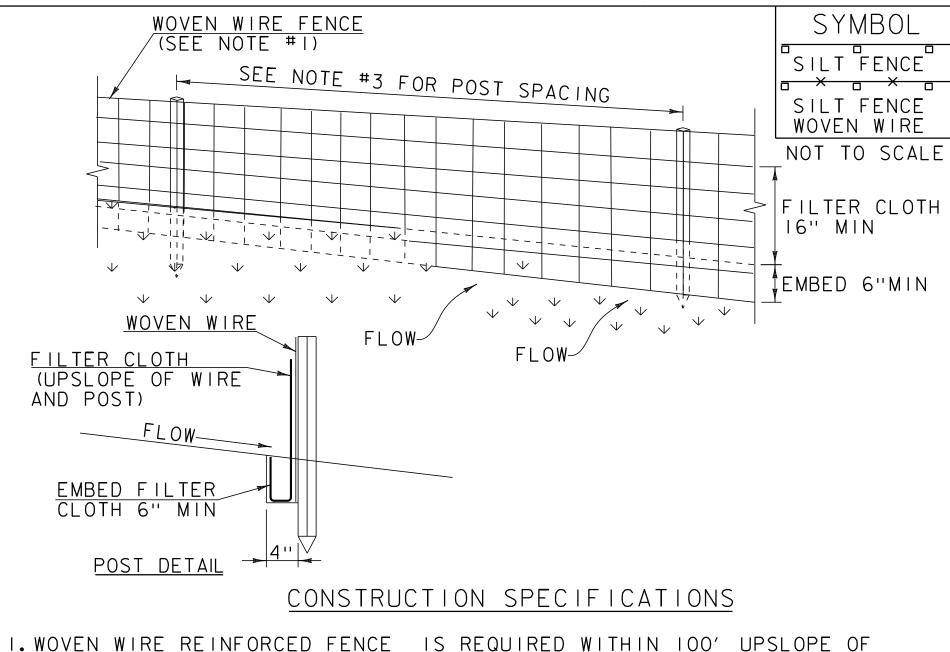
JANUARY 13, 2009 WHF

PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(12)

FILE NAME: sl2bl48ero_details.dgn
PROJECT LEADER: G.LAROCHE
DESIGNED BY: G.LAROCHE
EROSION CONTROL DETAILS I

PLOT DATE: 02-JUN-2020 DRAWN BY: G.ROY CHECKED BY: G.LAROCHE SHEET 47 OF 134



- I. 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, MIRAFIIOOX, STABILINKA TI40N 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

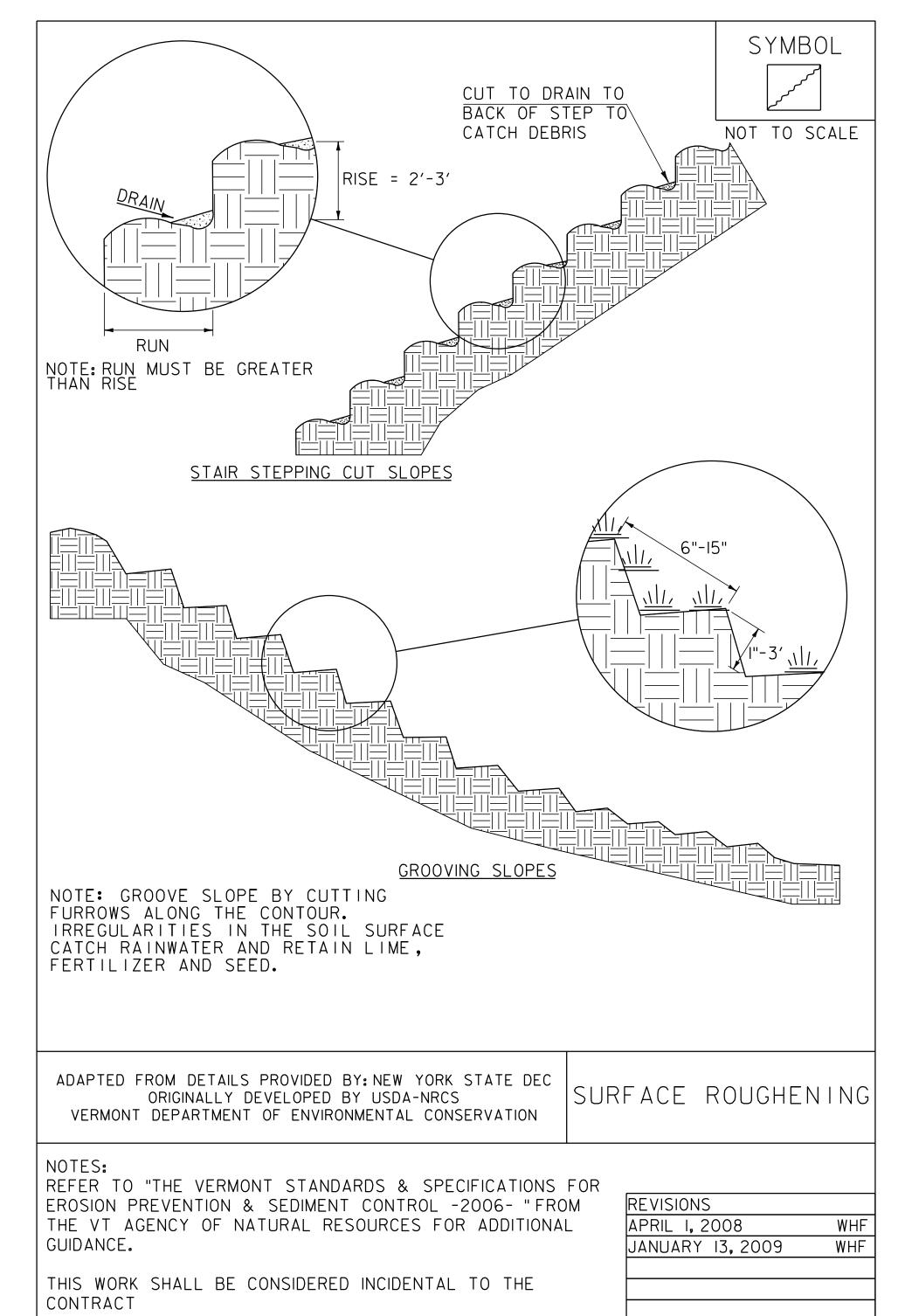
SILT FENCE

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 653 AND AS SHOWN IN THE PLANS FOR SILT FENCE, TYPE I (PAY ITEM 653.475) OR SILT FENCE, TYPE II (PAY ITEM 653.476).

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



PROJECT NAME: CALAIS

PROJECT NUMBER: BHF 037-2(12)

FILE NAME: sl2bl48ero_details.dgn
PROJECT LEADER: G. LAROCHE
DESIGNED BY: G. LAROCHE
EROSION CONTROL DETAILS 2

PLOT DATE: 02-JUN-2020 DRAWN BY: G.ROY CHECKED BY: G.LAROCHE SHEET 48 OF 134