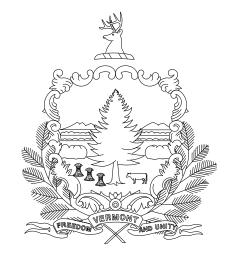
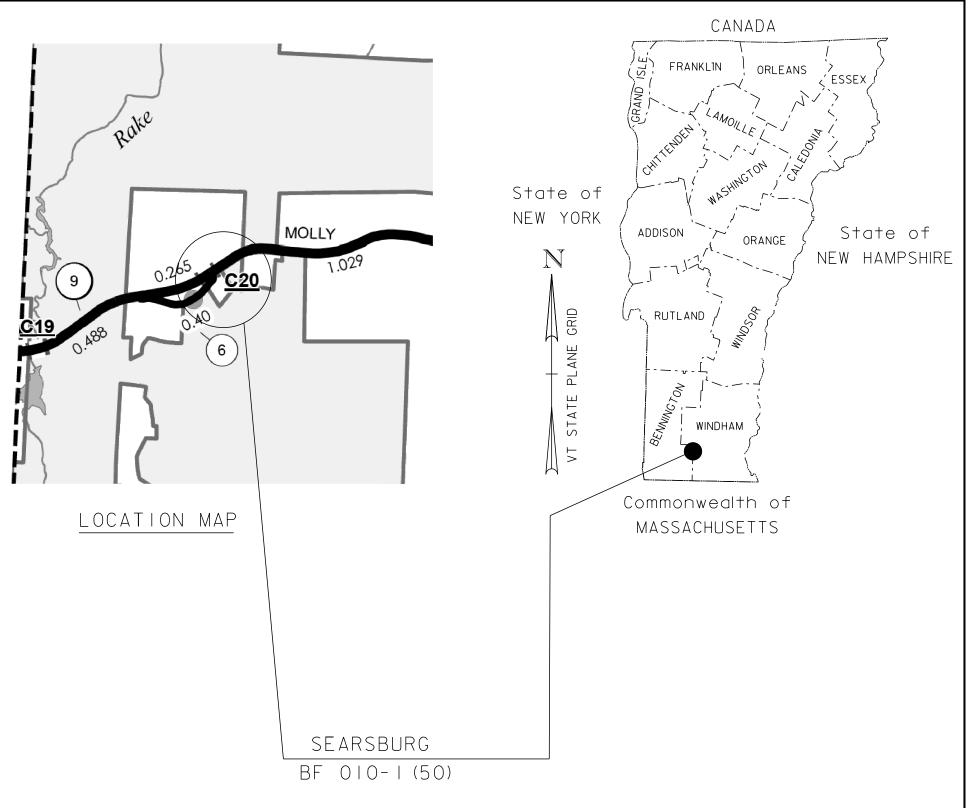
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PI	
ROUTE NO S Project Lo	
N LENGTH OF LENGTH OF LENGTH OF	
BEGIN PROJECT STA 104+75.00 MM = 0.614	E S
VT ROUTE 9 TO WOODFORD 103+00 BEGIN STA	CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION 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 : VTRANS SURVEYED DATE : 07/08/2014 DATUM VERTICAL NAVD88 HORIZONTAL NAVD83 (2011)

STATE OF VERMONT NCY OF TRANSPORTATION





ROPOSED IMPROVEMENT

BRIDGE PROJECT

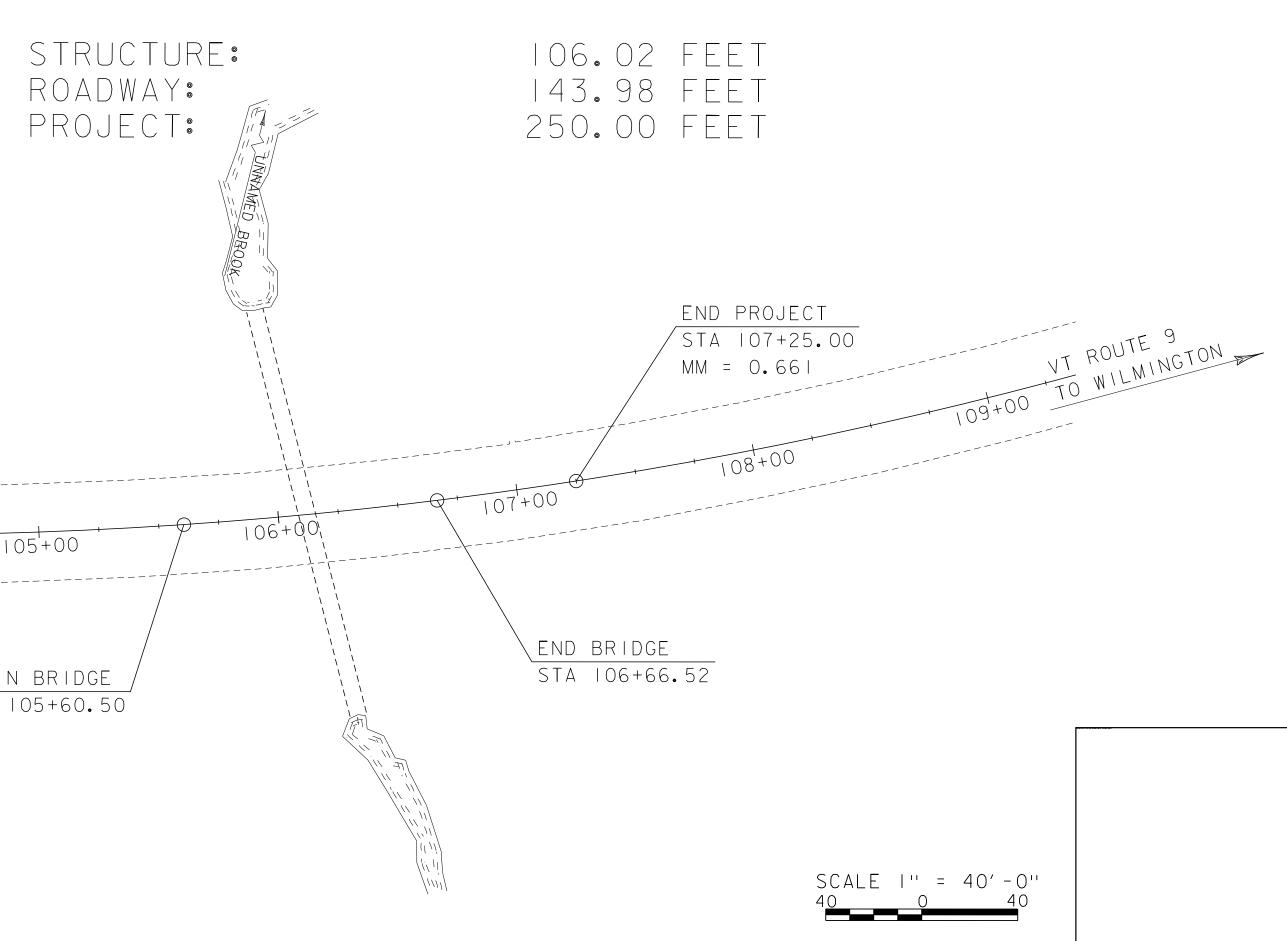
TOWN OF SEARSBURG County of Bennington

• VT ROUTE 9, RURAL PRINCIPAL ARTERIAL, BRIDGE NO • 20

OCATION: APPROXIMATELY 1.208 MILES WEST OF THE INTERSECTION WITH VT ROUTE 8 AND EXTENDING EASTERLY APPROXIMATELY 0.047 MILE.

WOODFORD

DESCRIPTION: REPLACEMENT OF EXISTING CULVERT WITH A SINGLE SPAN STRUCTURE WITH RELATED APPROACH ROADWAY AND CHANNEL WORK.





HIGHWAY DIVISION, CHIEF ENGINEER



GM2 Associates, Inc. 197 Loudon Road, Suite 310 Concord, NH 03301

Tel: 603-856-7854 Fax: 603-856-7855

APPROVED	DATE
PROJECT MANAGER :	N. WARK
PROJECT NAME : Project number :	
SHEET I OF 49	SHEETS

STATE OF VERMONT AGENCY OF TRANSPORTATION

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CONCRETE DETAILS AND NOTES	2/9/2012
CONCRETE DETAILS AND NOTES	10/10/2012
BRIDGE JOINT ASPHALTIC PLUG	8/29/2011
STRUCTURAL STEEL DETAILS AND NOTES	6/4/2010
STRUCTURAL STEEL PLATE GIRDER DETAILS AND NOTES	5/2/2011
	CONCRETE DETAILS AND NOTES BRIDGE JOINT ASPHALTIC PLUG STRUCTURAL STEEL DETAILS AND NOTES

HIGHWAY SAFETY AND DESIGN DETAIL

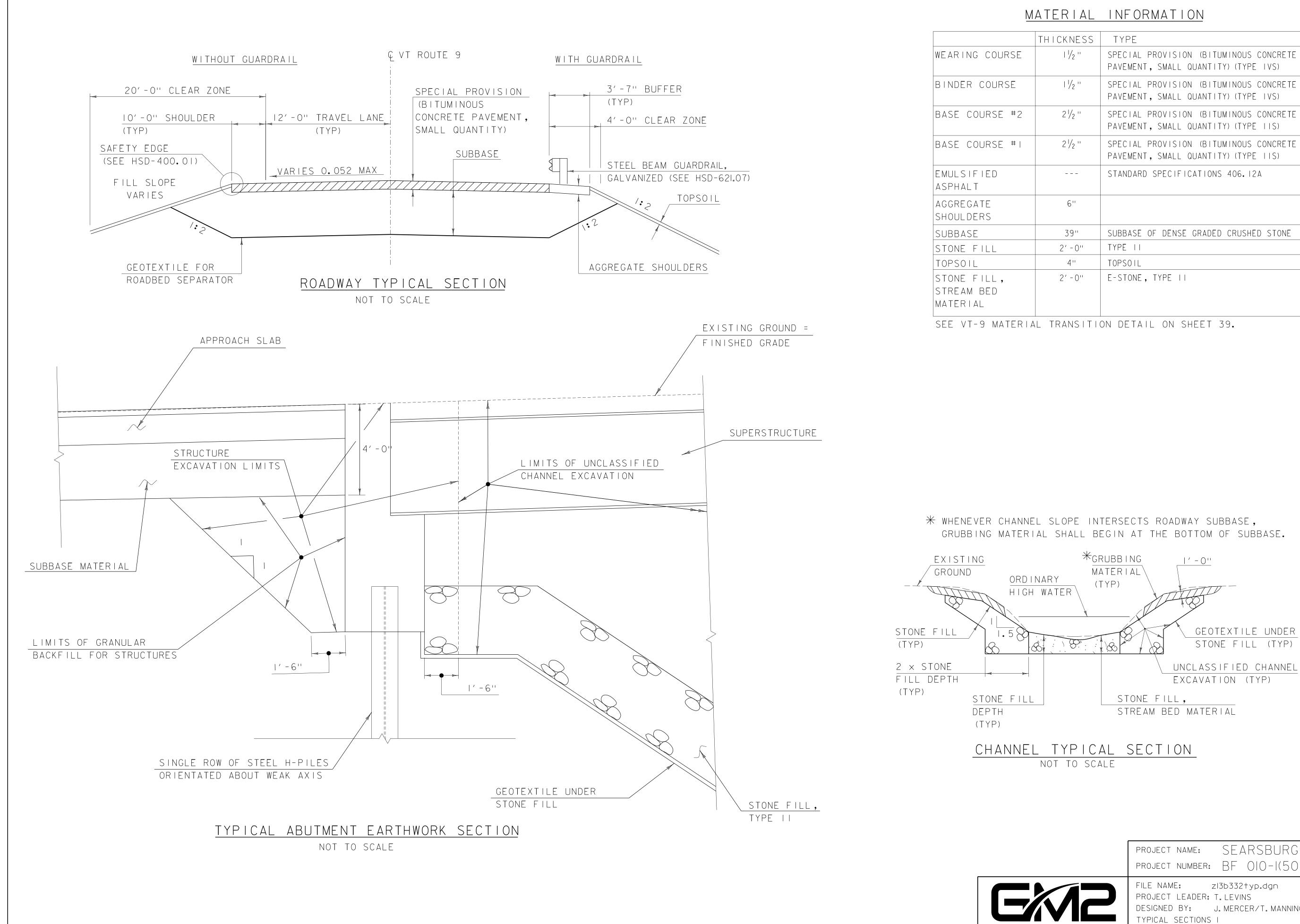
HSD-213.01	MILLED RUMBLE STRIPS (SHOULDER)	2/27/2017
HSD-213.02	MILLED RUMBLE STRIPS (CENTERLINE)	9/28/2017
HSD-400.01	SAFETY EDGE DETAIL	1/5/2018
HSD-621.01	POST AND BLOCKOUT DETAILS FOR STEEL BEAM GUARDRAIL,	6/9/2015
	GALVANIZED	
HSD-621.06	GUARDRAIL TERMINAL LABEL DETAILS	2/27/2017
HSD-621.07A	A MIDWEST GUARDRAIL SYSTEM (MDS)	4/17/2019
HSD-621.07E	3 W-BEAM GUARDRAIL COMPONENTS	4/17/2019
HSD-621.070	CMIDWEST GUARDRAIL SYSTEM (MDS) ANCHOR	4/17/2019
HSD-621.07E	MIDWEST GUARDRAIL SYSTEM (MDS) ANCHOR COMPONENTS	4/17/2019
HSD-621.07E	E MIDWEST GUARDRAIL SYSTEM (MDS) ANCHOR COMPONENTS	4/17/2019

PRELIMINARY INFORMATION SHEET (BRIDGE)

STANDARDS LIST		HYDROLOGIC DATA Date:	May, 2019
DING, EMBANKMENTS, MUCK	6/1/1994		,
MARKING DETAILS M GUARDRAIL DETAILS (POST, DELINEATOR, TYPICALS)	8/18/1995 3/10/2017	DRAINAGE AREA : <u>0.46 sq. mi.</u> CHARACTER OF TERRAIN : Forested with close proximity w	vetlands
RADING PLANS FOR GUARDRAIL END TERMINALS	11/15/2002	STREAM CHARACTERISTICS : Sinuous stream corridor with a	ccessible floo
LING, GALVANIZED NETC 3 RAIL BOX BEAM LING, GALVANIZED NETC 3 RAIL BOX BEAM	TBD TBD	NATURE OF STREAMBED : Silt, sand, gravel and cobbles	
APPROACH SECTION, GALVANIZED NETC 3 RAIL BOX BEAM		PEAK FLOW DATA - ANNUAL EXCEEDANCE PROBABILITY (A	AEP)
ONTROL GENERAL NOTES INAL ROADS CONSTRUCTION APPROACH SIGNING	4/25/2016 8/6/2012	43% = 36 cfs $2% = 120$	0 cfs
ONTROL MISCELLANEOUS DETAILS	8/6/2012	10% = 71 cfs $1% = 150$	0 cfs
TION SIGN DETAILS TION SIGN DETAILS	8/6/2012 8/6/2012	4% = 98 cfs $0.2% = 220$	0 cfs
TION SIGN DETAILS	8/6/2012	DATE OF FLOOD OF RECORD Unknown	
TION SIGN DETAILS TION ZONE LONGITUDINAL DROP-OFFS	8/6/2012 8/6/2012	ESTIMATED DISCHARGE: Unknown WATER SURFACE ELEV.: Unknown	
TION ZONE LONGITUDINAL DROP-OFFS FOR PAVING	8/6/2012	NATURAL STREAM VELOCITY : @ 2% AEP = 4.7 fps*	
RS AND MILEPOSTS MBER PLAQUE	1/2/2013 4/9/2014	ICE CONDITIONS : Low DEBRIS: Moderate - beaver activity upst	ream
BE SIGN POST AND ANCHOR	1/2/2013	DOES THE STREAM REACH MAXIMUM HIGHWATER ELEV. F	
		IS ORDINARY RISE RAPID? <u>No</u> IS STAGE AFFECTED BY UPSTREAM OR DOWNSTREAM CC	
		IF YES, DESCRIBE: Close proximity storage upstream will pr	
		elongated hydrograph with relatively gradual stage changes.	
		WATERSHED STORAGE: <u>3%</u> HEADWATERS:	
		UNIFORM: IMMEDIATELY AB	
		EXISTING STRUCTURE INFORMATIO	N
		STRUCTURE TYPE: CGMPP with mitered ends	
		YEAR BUILT: <u>1965</u> CLEAR SPAN(NORMAL TO STREAM): 7 ft.	
		VERTICAL CLEARANCE ABOVE STREAMBED: <u>7 ft</u>	
		WATERWAY OF FULL OPENING:38 sq. ft.DISPOSITION OF STRUCTURE:Remove and replace	 ce
		TYPE OF MATERIAL UNDER SUBSTRUCTURE: Se	e borings
		WATER SURFACE ELEVATIONS AT:	
			6 fps**
			′ fps l fps
) fps
		1% AEP = <u>2234.1 ft.</u> " <u>9.5</u>	o fps
		LONG TERM STREAMBED CHANGES: <u>The wetland complete</u> upstream of this crossing appears to be gradually decreasing in s	
		IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No FREQUENCY: -	
		RELIEF ELEVATION: <u>2257.2 ft.</u> DISCHARGE OVER ROAD @ 1% AEP: <u>-</u>	
		UPSTREAM STRUCTURE	
			STANCE:
			RUCTURE #: EAR HEIGHT
		YEAR BUILT: Unknown FU	ILL WATERW
		STRUCTURE TYPE: Concrete Box	
		DOWNSTREAM STRUCTURE	
		TOWN: Searsburg DIS	STANCE:
			RUCTURE #: EAR HEIGHT
			ILL WATERW
		STRUCTURE TYPE: Confluence - Rake Branch	
		LRFR LOAD RATING FACTO LOADING LEVELS	<u>K</u> 3
		H-20 HL-93 3S2 6 AXLE TONNAGE 20 36 36 66	3A. STR. 30
		IONNAGE 20 30 30 00 INVENTORY 2.43 1.39 1.	30
		POSTING	
		OPERATING 3.15 1.8 2.23 1.41	2.18
AS BUILT "REBAR	" DETAIL	COMMENTS:	
LEVEL I LEVEL I			
<u>TYPE:</u> <u>TYPE:</u>	TYPE:		
GRADE: GRADE:	GRADE:		

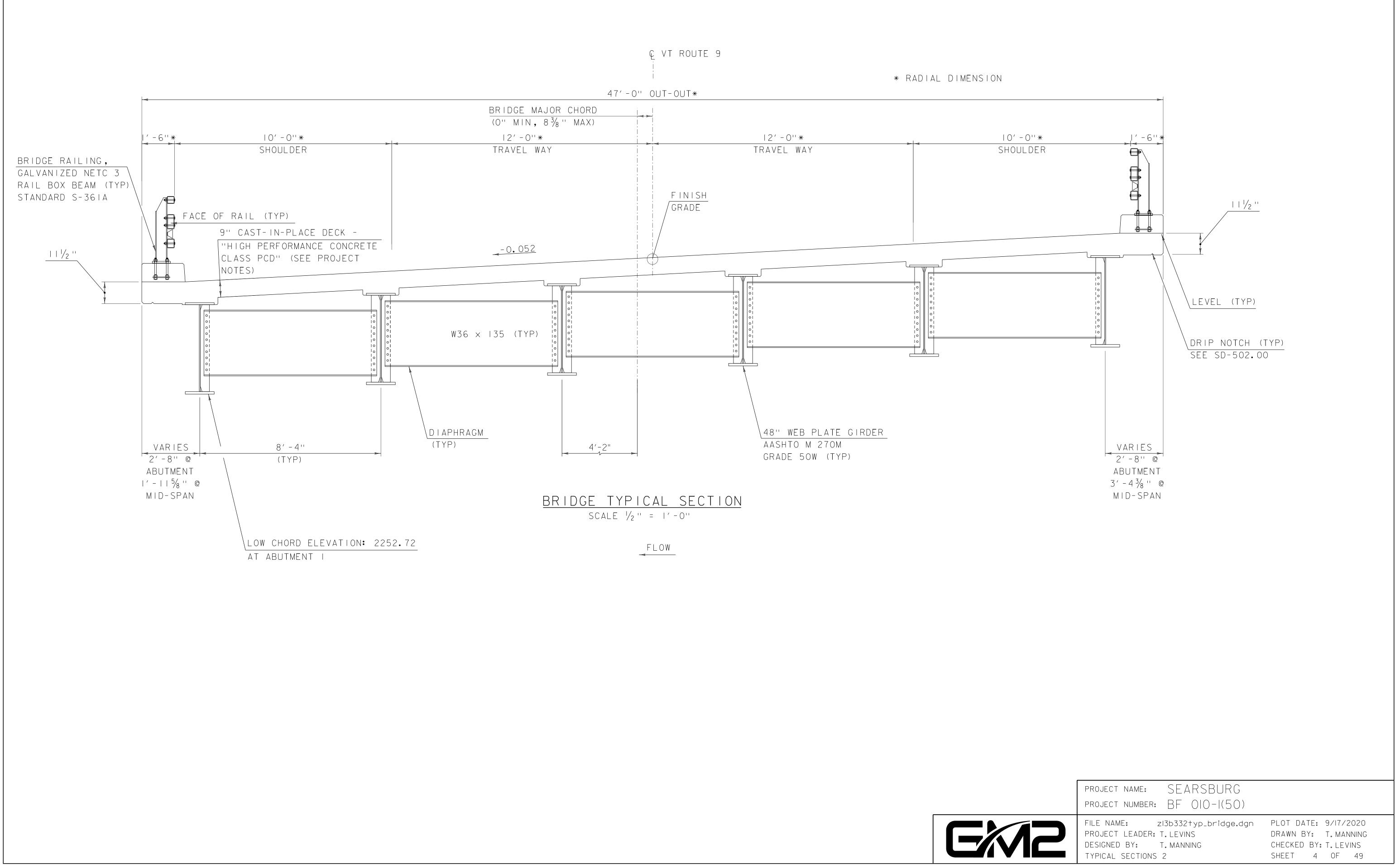
LRFD FINAL HYDRAULIC REPORT PROPOSED STRUCTURE STRUCTURE TYPE: Single Span Structure CLEAR SPAN(NORMAL TO STREAM): 91.6 ft. odplains 29.6 ft*** VERTICAL CLEARANCE ABOVE STREAMBED: WATERWAY OF FULL OPENING: 1720 sq. ft. WATER SURFACE ELEVATIONS AT: VELOCITY= 4.8 fps** 43% AEP = 2230.1 ft. 5.8 fps 10% AEP = 2230.4 ft. 4% AEP = 2230.7 ft. 6.2 fps 2% AEP = 2230.8 ft. 6.6 fps 1% AEP = 2231.0 ft. 6.8 fps IS THE ROADWAY OVERTOPPED BELOW 1% AEP: No FREQUENCY: RELIEF ELEVATION: 2257.9 ft. DISCHARGE OVER ROAD @ 1% AEP No BRIDGE LOW CHORD ELEVATION: 2252.9 ft. Yes FREEBOARD: @ 2% AEP = 22.1 ft. llower, more SCOUR: @ 1% AEP = 0.0 ft. of contraction scour **REQUIRED CHANNEL PROTECTION:** Stone Fill, Type II; E-stone, Type II PERMIT INFORMATION AVERAGE DAILY FLOW: DEPTH OR ELEVATION: ORDINARY LOW WATER: ORDINARY HIGH WATER: **TEMPORARY BRIDGE REQUIREMENTS** STRUCTURE TYPE: -CLEAR SPAN (NORMAL TO STREAM): VERTICAL CLEARANCE ABOVE STREAMBED: WATERWAY AREA OF FULL OPENING: ADDITIONAL INFORMATION * - Largest velocity observed near the crossing, in a model with the structure removed. ** - Velocities are reported about the respective structure outlet. *** - Reported value is an average. Actual vertical clearance varies. TRAFFIC MAINTENANCE NOTES 0.12 miles 1990s. 1. PHASED CONSTRUCTION: MAINTAIN TWO-WAY TRAFFIC ON EXISTING/PROPOSED STRUCTURE 2. TRAFFIC SIGNALS ARE NOT NECESSARY. 3. SIDEWALKS ARE NOT NECESSARY **DESIGN VALUES** 1. DESIGN LIVE LOAD HL-93 2. FUTURE PAVEMENT **d**p: 2.5 INCH 3. DESIGN SPAN *L:* <u>103.00 FT</u> 0.05 mi. 4. MIN. MID-SPAN POS. CAMBER @ RELEASE (PRESTRESSED UNITS) Δ: ---8 ft. 5. PRESTRESSING STRAND **f**y:_____ f'c: ---f'ci: ---WAY: 56 sq. ft. 6. PRESTRESSED CONCRETE STRENGTH 7. PRESTRESSED CONCRETE RELEASE STRENGTH 8. CONCRETE, HIGH PERFORMANCE CLASS PCS f'c: 4.0 KSI 9. CONCRETE, HIGH PERFORMANCE CLASS PCD *f* ′c: 4.0 KSI 10. CONCRETE, HIGH PERFORMANCE CLASS B **f**'c: 3.5 KSI 11. CONCRETE, CLASS C f'c: 3.0 KSI 0.75 mi. fy: 60 KSI 12. REINFORCING STEEL fy: 50 KSI 13. STRUCTURAL STEEL AASHTO M270 (WEATHERING) NAY: **q** n: --- KSF 14. NOMINAL BEARING RESISTANCE OF SOIL 15. SOIL BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) φ: 0.45 **q**n: --- KSF 16. NOMINAL BEARING RESISTANCE OF ROCK 17. ROCK BEARING RESISTANCE FACTOR (REFER TO AASHTO LRFD) φ: ---4A. STR. 5A. SEMI 18. PILE RESISTANCE FACTOR φ: 0.65 34.5 38 ^{19.} LATERAL PILE DEFLECTION Δ: 0.25 INCH **V**3s: ---20. BASIC WIND SPEED **p**g:____ 21. MINIMUM GROUND SNOW LOAD **PGA**: 0.65 22. SEISMIC DATA **S**s: ---1.93 1.97 **S**1: ---- - -25 - - -- - -SEARSBURG PROJECT NAME: PROJECT NUMBER: BF 010-1(50) FILE NAME: zI3b332pi.dgn PLOT DATE: 9/17/2020 PROJECT LEADER: T. LEVINS DRAWN BY: T. MANNING DESIGNED BY: T. MANNING CHECKED BY: T.LEVINS PRELIMINARY INFORMATION SHEET SHEET 2 OF 49

Versior



NESS	TYPE
/2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IVS)
/2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IVS)
/2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IIS)
/2 ''	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY) (TYPE IIS)
	STANDARD SPECIFICATIONS 406.12A
ò''	
9''	SUBBASE OF DENSE GRADED CRUSHED STONE
- ()''	TYPE II
1''	TOPSOIL
- () ''	E-STONE, TYPE II

	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332typ.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: J.MERCER/T.MANNING TYPICAL SECTIONS I	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 3 OF 49



STATE OF VERMONT AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES				тот	TOTALS		DESCRIPTIONS					
				ROADWAY	EROSION CONTROL	BRIDGE	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMB
				1				1		LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10
				1370				1370		CY	COMMON EXCAVATION	203.15
						9600		9600		CY	UNCLASSIFIED CHANNEL EXCAVATION	203.27
				170				170		CY	EARTH BORROW	203.30
				10				10		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22
						640		640		CY	STRUCTURE EXCAVATION	204.25
						145		145		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30
				4035				4035		SY	COARSE-MILLING, BITUMINOUS PAVEMENT	210.10
				2800				2800		LF	MILLED RUMBLE STRIPS .	213.10
				 1140				1140		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35
				140				140		TON	AGGREGATE SHOULDERS	402.12
				25				25		СМТ	EMULSIFIED ASPHALT	404.65
				1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50
						286		286		CY	HIGH PERFORMANCE CONCRETE, CLASS PCD	501.37
						143		143		CY	HIGH PERFORMANCE CONCRETE, CLASS PCS	501.38
						1		1		LS	FURNISHING EQUIPMENT FOR DRIVING PILING	504.10
						564		564		LF	STEEL PILING, HP 14 X 102	505.19
						2		2		EACH	DYNAMIC PILE LOADING TEST	505.45
												506.55
						171120		171120		LB	STRUCTURAL STEEL, PLATE GIRDER	
						15110		15110		LB		507.11
						23540		23540		LB		507.13
						1		1		LS	SHEAR CONNECTORS (1716 - 7/8" x 8")	508.15
						510		510		SY	LONGITUDINAL DECK GROOVING	509.10
						45		45		GAL	WATER REPELLENT, SILANE	514.10
						88		88		LF	BRIDGE EXPANSION JOINT, ASPHALTIC PLUG	516.10
						88		88		LF	JOINT SEALER, HOT POURED	524.11
						216		216		LF	BRIDGE RAILING, GALVANIZED 3 RAIL BOX BEAM	525.335
						1		1		EACH	REMOVAL OF STRUCTURE (84" DIA. X 174' LONG CMP)	529.15
						310		310		CY	STONE FILL, STREAM BED MATERIAL (E-STONE, TYPE II)	613.06
						890		890		CY	STONE FILL, TYPE III	613.12
						130		130		LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28
				800				800		LF	STEEL BEAM GUARDRAIL, GALVANIZED	621.20
				2				2		EACH	MANUFACTURED TERMINAL SECTION, TANGENT	621.51
						4		4		EACH	GUARDRAIL APPROACH SECTION, GALVANIZED 3 RAIL BOX BEAM	621.725
				1210				1210		LF	REMOVAL AND DISPOSAL OF GUARDRAIL	621.80
				1220				1220		LF	TEMPORARY TRAFFIC BARRIER	621.90
				 600				600		HR	UNIFORMED TRAFFIC OFFICERS	630.10
				 1400				1400		HR	FLAGGERS	630.15
							1	1		LS	FIELD OFFICE, ENGINEERS	631.10
							1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16

QUANTITY SHEET 1



		ROUND	QUANTITIES	UNIT	ITEMS
S	201.10				EARTHWORK SUMMARY
	203.15		959	CY	FILL AVAILABLE COMMON EXCAVATION (1370 X 0.7)
	203.27		2880		UNCLASSIFIED CHANNEL EXCAVATION (9600 X 0.3) STRUCTURE EXCAVATION (640 X 0.3)
	203.30			CY	ROUNDING TOTAL FILL AVAILABLE
	204.22				FILL REQUIRED
	204.25			CY CY	FACTORED FILL (170 X 1.15) ROUNDING
	204.30			CY	TOTAL FILL REQUIRED
	210.10		3835	CY	WASTE
	213.10				
	301.35				N.A.B.I. = NOT A BID ITEM
	402.12				
	404.65				
	406.50				
	501.37				
	501.38				
	504.10				
	505.19				
	505.45				
	506.55				
	507.11				
	508.15				
	509.10				
	514.10				
	516.10				
	524.11				
	525.335				
	529.15				
	613.06				
	613.12				
	616.28				
	621.20				
	621.51				
	621.725				
	621.80				
	621.90				
	630.10				
	630.15				
	631.10				
	631.16				

STATE OF VERMONT AGENCY OF TRANSPORTATION

SUMMARY OF ESTIMATED QUANTITIES						TALS	DESCRIPTIONS				
				ROAD	WAY ERO	SION ROL BRIE	GE FULL C.E. ITEMS	GRAND TOTAL	FINAL UNIT	ITEMS	
							1	1	LS	TESTING EQUIPMENT, BITUMINOUS	631.17
							1500	1500	DL	FIELD OFFICE COMMUNICATIONS (N.A.B.I.)	631.26
								1	LS	MOBILIZATION/DEMOBILIZATION	635.11
								1	LS	TRAFFIC CONTROL	641.10
				2	2			2	EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15
				21				2150	LF	4 INCH WHITE LINE, WATERBORNE PAINT	646.201
				21				2150	LF	4 INCH YELLOW LINE, WATERBORNE PAINT	646.2111
					9	2		952	SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11
						149	0	1490	SY	GEOTEXTILE UNDER STONE FILL	649.31
					4			40	LB	SEED	651.15
					4			40	LB	SEED, WINTER RYE	651.17
					33			330	LB	FERTILIZER	651.18
								2	TON	AGRICULTURAL LIMESTONE	651.20
					6	D C C C C C C C C C C C C C C C C C C C		60	CY	TOPSOIL	651.35
				18	10			1810	SY	GRUBBING MATERIAL (12")	651.40
								1	LS	EPSC PLAN	653.01
					20	0		260	HR	MONITORING EPSC PLAN	653.02
								1	LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	653.03
								2	TON	HAYMULCH	653.10
					29	20		2920	SY	ROLLED EROSION CONTROL PRODUCT, TYPE II	653.21
					8	9		89	СҮ	STABILIZED CONSTRUCTION ENTRANCE	653.35
								2	EACH	FILTER BAG	653.45
					90	0		900	LF	SILT FENCE, TYPE I	653.475
					80	0		800	LF	BARRIER FENCE	653.50
				1				1	SF	TRAFFIC SIGN, TYPE A	675.20
				1	6			16	LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341
				1				1	EACH	DELINEATOR WITH STEEL POST	676.10
				1				1	LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50
						433	46	43346	LF	SPECIAL PROVISION (REINFORCING BAR, GFRP)(#6)	900.640
						1		1	LS	SPECIAL PROVISION (TEMPORARY RELOCATION OF STREAM)	900.645
								1	LS	SPECIAL PROVISION (TEMPORARY ROADWAY)	900.645
								1	LU	SPECIAL PROVISION (MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY)	900.650
								1	LU	SPECIAL PROVISION (MIXTURE PAY ADJUSTMENT) (N.A.B.I.)	900.650
						45	0	4560	SF	SPECIAL PROVISION (CONCRETE BRIDGE DECK SURFACE PREPARATION)	900.670
				87	20			870	TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680

QUANTITY SHEET 2 TOTALS DESCRIPTIONS



				0	OF QUANTITIES	
	ITEM NUMBER	ROUND	QUANTITIES	UNIT		ITEMS
	631.17					
	631.26					
	635.11					
	641.10					
	641.15					
	646.201					
	646.2111					
	649.11					
	649.31					
	651.15					
	651.17					
	651.18					
	651.20					
	651.35					
	651.40					
	653.01					
	653.02					
	653.03					
	653.10					
	653.21					
	653.35					
	653.45					
	653.475					
	653.50					
	675.20					
	675.341					
	676.10					
	690.50					
	900.640					
	900.645					
	900.645					
	900.650					
	900.650					
)	900.670					
ITY)	900.680					
			OJECT NAME		SEARSBURG 3F 010-1(50)	
		FIL	LE NAME: Roject lead	z13t	b332qs.dgn	PLOT DATE: 9/17/202 DRAWN BY: B.WILLIA

COMMON TOPOGRAPHIC POINT SYMBOLS

SYMBOL	OGY LEG	END NOTE		POINT	CODE
THE S	YMBOLOGY	ON THIS SHEET IS INT	ENDED TO COVER		APL
		ENTIONAL SYMBOLOGY.			BM
		NG & PROPOSED FEAT			BND
		OMBINATION WITH PROJE			СВ
		ROJECT PLAN SHEETS.		<u>ф</u>	СОМВ
		THE BASICS. SYMBOLOG DTATIONS AND NOTES			DITHR
		Y AS NEEDED.	SHOULD DL	<u>г</u>	EL
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$\square \bullet \cup \bullet W \bullet$	ADDREV	TATIONS (CODES)	& STMDULS	M	WSO
POINT	CODE	DESCRIPTION			
	СН	CHANNEL EASEMENT		ТИЕСЕ	ARE COMM
	CONST	CONSTRUCTION EASEM	ENT		KISTING FEA
	CUL	CULVERT EASEMENT			RES WITH H
	D&C	DISCONNECT & CONNE	СТ		ROPOSED A
	DIT	DITCH EASEMENT			NULUSED A
	DR	DRAINAGE EASEMENT			
	DRIVE	DRIVEWAY EASEMENT		PROPO)SED GEO
	EC	EROSION CONTROL			

R.O.W. AE

GENERAL INFORMATION

			\bowtie	WSO WATER SHUT OFF			
POINT	CODE	DESCRIPTION					
	СН	CHANNEL EASEMENT	THESE ARE COMMON VAOT SURVEY POINT SYMBOLS				
	CONST	CONSTRUCTION EASEMENT		STING FEATURES, ALSO USED FOR PROPOSED			
	CUL	CULVERT EASEMENT		ES WITH HEAVIER LINEWEIGHT, IN COMBINATION			
	D&C	DISCONNECT & CONNECT		OPOSED ANNOTATION.			
	DIT	DITCH EASEMENT		OF OSED ANNOTATION.			
	DR	DRAINAGE EASEMENT					
	DRIVE	DRIVEWAY EASEMENT	PROPOS	SED GEOMETRY CODES			
	EC	EROSION CONTROL	CODE	DESCRIPTION			
	ΗWΥ	HIGHWAY EASEMENT	PC	POINT OF CURVATURE			
	1& M	INSTALL & MAINTAIN EASEMENT	PI	POINT OF INTERSECTION			
	LAND	LANDSCAPE EASEMENT	CC	CENTER OF CURVE			
	R&RES	REMOVE & RESET	PT	POINT OF TANGENCY			
	R&REP	REMOVE & REPLACE	PCC	POINT OF COMPOUND CURVE			
	R.T.&I.	RIGHTS, TITLE, AND INTEREST	PRC	POINT OF REVERSE CURVE			
	SR	SLOPE RIGHT	РОВ	POINT OF BEGINNING			
	UE	UTILITY EASEMENT	POE	POINT OF ENDING			
	(P)	PERMANENT EASEMENT	STA	STATION PREFIX			
	(])	TEMPORARY EASEMENT	AH	AHEAD STATION SUFFIX			
	BNDNS	BOUND SET	BK	BACK STATION SUFFIX			
	BNDNS	BOUND TO BE SET	D	CURVE DEGREE OF (IOOFT)			
	IPNS	IRON PIN SET	B	CURVE RADUIS OF			
\bigcirc	IPNS	IRON PIN TO BE SET	Т	CURVE TANGENT LENGTH			
\bowtie	CALC	EXISTING ROW POINT		CURVE LENGTH OF			
\bigcirc	PROW	PROPOSED ROW POINT					
LEN(GTH]	LENGTH CARRIED ON NEXT SHEET		CURVE EXTERNAL DISTANCE			
	- · · ·]						

DESCRIPTION BOUND APPARENT LOCATION BENCHMARK BOUND CATCH BASIN COMBINATION POLE DROP INLET THROATED DNC ELECTRIC POWER POLE FLAGPOLE gas filler GUIDE POST GAS SHUT OFF GUY POLE GUY WIRE GATE VALVE TREE HARDWOOD CONTROL HORIZONTAL CONTROL HORIZ. & VERTICAL HYDRANT IRON PIN IRON PIPE LIGHT - STREET OR YARD MAILBOX MANHOLE (MH) MILE MARKER PARKING METER PROJECT MARKER POST STONE/WOOD RAILROAD SIGNAL RAILROAD SWITCH LEVER TREE SOFTWOOD SATELLITE DISH Shrub SIGN STUMP TELEPHONE POLE TIE SIGN W/DOUBLE POST CONTROL VERTICAL WELL WATER SHUT OFF

UTILITY SYMBOLOGY

UNDERGROUND UTILITIES
<i>— UT — TELEPHONE</i>
G GAS LINE
— s — $\cdot \cdot$ — \cdot SANITARY SEWER (SEPTIC)
ABOVE GROUND UTILITIES (AERIAL)
<i>— agu — · · — · · -</i> utility (generic-unknown)
— T — · · — · · TELEPHONE
— e — · · - Electric
EC ELECTRIC+CABLE
ET ELECTRIC+TELEPHONE
— ECT — ·· — · · - ELECTRIC+CABLE+TELEP.
PROJECT CONSTRUCTION SYMBOLOGY
PROJECT DESIGN & LAYOUT SYMBOLOGY
- $ -$

PROJECT CONSTRUCTION FEATURES

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	//.		///	///	////	///	STRIPING LINE
	\frown	\checkmark	\checkmark	\checkmark	\smile	\checkmark	SHEET PILES

CUT SLOPE FILL SLOPE LL of Ditch 🖣 PROPOSED IRE SUBSURFACE DEMARCATION FENCE FENCE OTECTION ZONE (TPZ) LINE REMOVAL

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES	
TOWN LINE	TOW
COUNTY LINE	COU
STATE LINE	STA
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	SLO
6f 6f	6F
4f 4f	4F F
HAZ HAZ	HAZ

EPSC LAYOUT PLAN SYMBOLOGY

<u>epsc measures</u>)
	FILTER CURTAIN
	SILT FENCE
	SILT FENCE WOVEN WIRE
▶ ─ ▶ ─ ▶─	CHECK DAM
	DISTURBED AREAS Requiring re-vegetation
	EROSION MATTING
SEE EPSC DETAIL	SHEETS FOR ADDITIONAL SYMBOLOGY

ENVIRONMENTAL RESOURCES

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

А

———— ARCH ———
— HISTORIC DIST —
——— HISTORIC ——
(\mathbf{H})

--- HISTORIC DISTRICT BOUNDARY HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

EXISTING FEATURES

	ROAD EDGE PAVEMENT
	ROAD EDGE GRAVEL
	DRIVEWAY EDGE
	DITCH
	FOUNDATION
xxx	FENCE (EXISTING)
000	FENCE WOOD POST
000	FENCE STEEL POST
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	GARDEN
0 0 0 0 0 0 0	ROAD GUARDRAIL
	RAILROAD TRACKS
	CULVERT (EXISTING)
000000000000000000000000000000000000000	
	WALL
	WOOD LINE
	BRUSH LINE
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	HEDGE
	BODY OF WATER EDGE
	LEDGE EXPOSED
///////////////////////////////////////	
	
PROJECT NAME:	SEARSBURG
PROJECT NUMBER:	BF 010-1(50)

FILE NAME: zI3b332leg.dgn	PLOT DATE: 9/17/2020
PROJECT LEADER: T.LEVINS	DRAWN BY: VTRANS
DESIGNED BY: VTRANS	CHECKED BY: T.LEVINS
LEGEND SHEET	SHEET 7 OF 49

GENERAL

- I. ALL MATERIAL AND CONSTRUCTION SHALL CONFORM TO THE STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2018, AND ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2017, AND ITS LATEST REVISIONS.
- 2. THE BRIDGE WAS DESIGNED FOR THE HL-93 LIVE LOAD.
- 3. ALL DIMENSIONS SHOWN IN THE PLANS ARE HORIZONTAL AND VERTICAL AND ARE GIVEN AT 68 DEGREES FAHRENHEIT, UNLESS NOTED OTHERWISE.
- 4. ANY REQUIRED SAWCUT OF EXISTING PAVEMENT SHALL BE INCIDENTAL TO ITEM 900.680, "SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)".

EARTHWORK AND RELATED ITEMS

- 5. THE "STONE FILL, TYPE II", "GRUBBING MATERIAL" AND "STONE FILL, STREAM BED MATERIAL (E-STONE, TYPE II) " UNDER THE BRIDGE AS SHOWN IN THE PLANS SHALL BE PLACED BEFORE THE NEW STEEL GIRDERS ARE SET.
- 6. BOTH ABUTMENTS SHALL BE BACKFILLED SIMULTANEOUSLY. NO MORE THAN TWO (2) FEET OF DIFFERENTIAL BACKFILL HEIGHT SHALL BE PERMITTED. BACKFILLING ABOVE THE CONSTRUCTION JOINT SHALL NOT BEGIN UNTIL THE ABUTMENT AND DECK CONSTRUCTION IS COMPLETE.

H-PILES

- 7. TO ENSURE THAT THE NOMINAL CAPACITY HAS BEEN ATTAINED AND TO PREVENT THE OVERSTRESSING OF THE PILES DURING DRIVING OPERATIONS, DYNAMIC TESTING SHALL BE PERFORMED IN ACCORDANCE WITH SUBSECTION 505.04. A MINIMUM OF ONE DYNAMIC PILE TEST SHALL BE CONDUCTED ON THE FIRST PILE DRIVEN FOR EACH SUBSTRUCTURE UNIT, FOR A TOTAL OF 2 TESTS. MORE TESTS MAY BE REQUIRED BY THE ENGINEER. ADDITIONAL TEST REQUIRED BY THE ENGINEER WILL BE PAID FOR AT THE UNIT PRICE BID FOR CONTRACT ITEM 505.45.
- 8. THE PILES SHALL BE DRIVEN TO A NOMINAL PILE DRIVING RESISTANCE (RNDR) OF 656 KIPS, AS DETERMINED BY THE RESULTS OF DYNAMIC TESTING, AND AS INTERPRETED BY THE RESIDENT ENGINEER. HOWEVER, THE PILES SHALL BE DRIVEN TO A MINIMUM DEPTH OF 40 FEET BELOW THE BOTTOM OF THE PILE CAP ON ABUTMENT #1 AND 50 FEET BELOW THE BOTTOM OF THE PILE CAP ON ABUTMENT #2.
- 9. FOR ESTIMATING PURPOSES, THE PILE TIP ELEVATIONS WERE ASSUMED TO BE AS SHOWN ON THE BORING LOGS. THE ACTUAL IN PLACE LENGTH MAY VARY.

CONCRETE

- IO. CONCRETE USED FOR DECK AND END DIAPHRAGMS SHALL BE HIGH PERFORMANCE CONCRETE CLASS PCD AND WILL BE PAID UNDER CONTRACT ITEM 501.37. CONCRETE USED FOR PILE CAP AND APPROACH SLABS SHALL BE HIGH PERFORMANCE CONCRETE CLASS PCS AND WILL BE PAID UNDER CONTRACT ITEM 501.38.
- II. WATER REPELLENT, SILANE, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES, EXCEPT THE UNDERSIDE OF THE DECK BETWEEN DRIP NOTCHES.
- 12. ALL REINFORCING IN THE INTERIOR DECK AND LONGITUDINAL REINFORCING IN THE DECK OVERHANGS SHALL BE GFRP. ALL TRANSVERSE REINFORCING STEEL IN THE DECK OVERHANGS AND ALL REINFORCING STEEL IN THE END DIAPHRAGMS SHALL BE LEVEL III - STAINLESS STEEL. REINFORCEMENT IN THE PILE CAP AND APPROACH SLABS SHALL BE LEVEL I. LEVEL I EPOXY COATED REINFORCEMENT IS DESIGNATED BY AN "E" IN THE BAR MARK PREFIX.
- 13. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING INSTITUTE".
- 14. MINIMUM CLEAR COVER FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

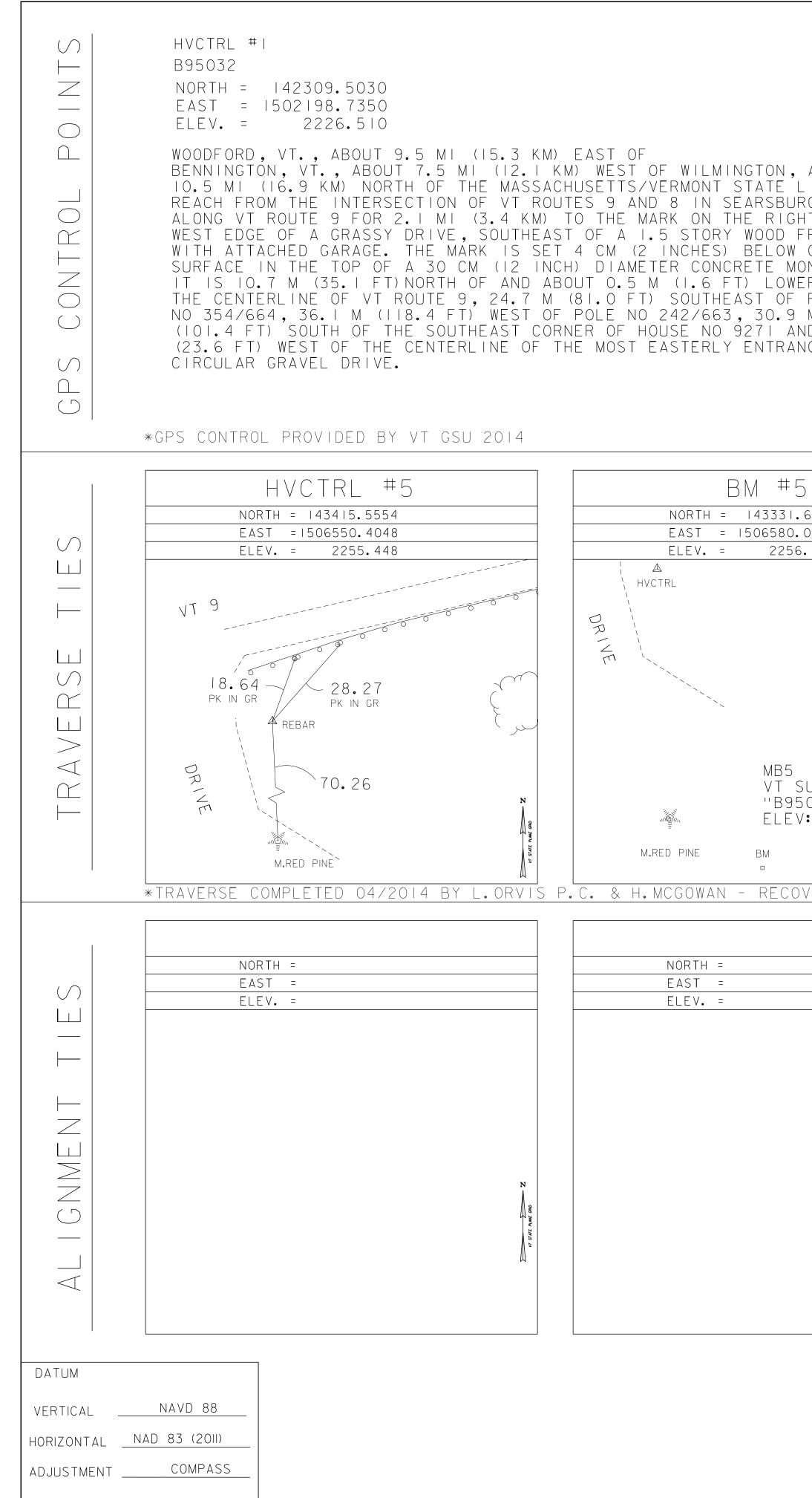
ALONG BACKFACES OF WALLS AGAINST EARTH: 2.0 INCH ALONG TOP SURFACE OF DECK SLAB: 2.0 INCH ALONG BOTTOM SURFACE OF DECK SLAB: 1.5 INCH ELSEWHERE UNLESS OTHERWISE INDICATED: 3.0 INCH

15. THE DECK SHALL BE CAST TO AN INITIAL THICKNESS OF 9.5 INCHES. AFTER THE DECK HAS CURED AND "SPECIAL PROVISION (CONCRETE BRIDGE DECK SURFACE PREPARATION)".



THE BRIDGE RAIL IS INSTALLED, THE ENTIRE BRIDGE DECK SURFACE SHALL BE DIAMOND GROUND A NOMINAL 0.5 INCH FOR A RESULTING DECK THICKNESS OF 9 INCHES. PAYMENT WILL BE MADE UNDER ITEM 900.670,

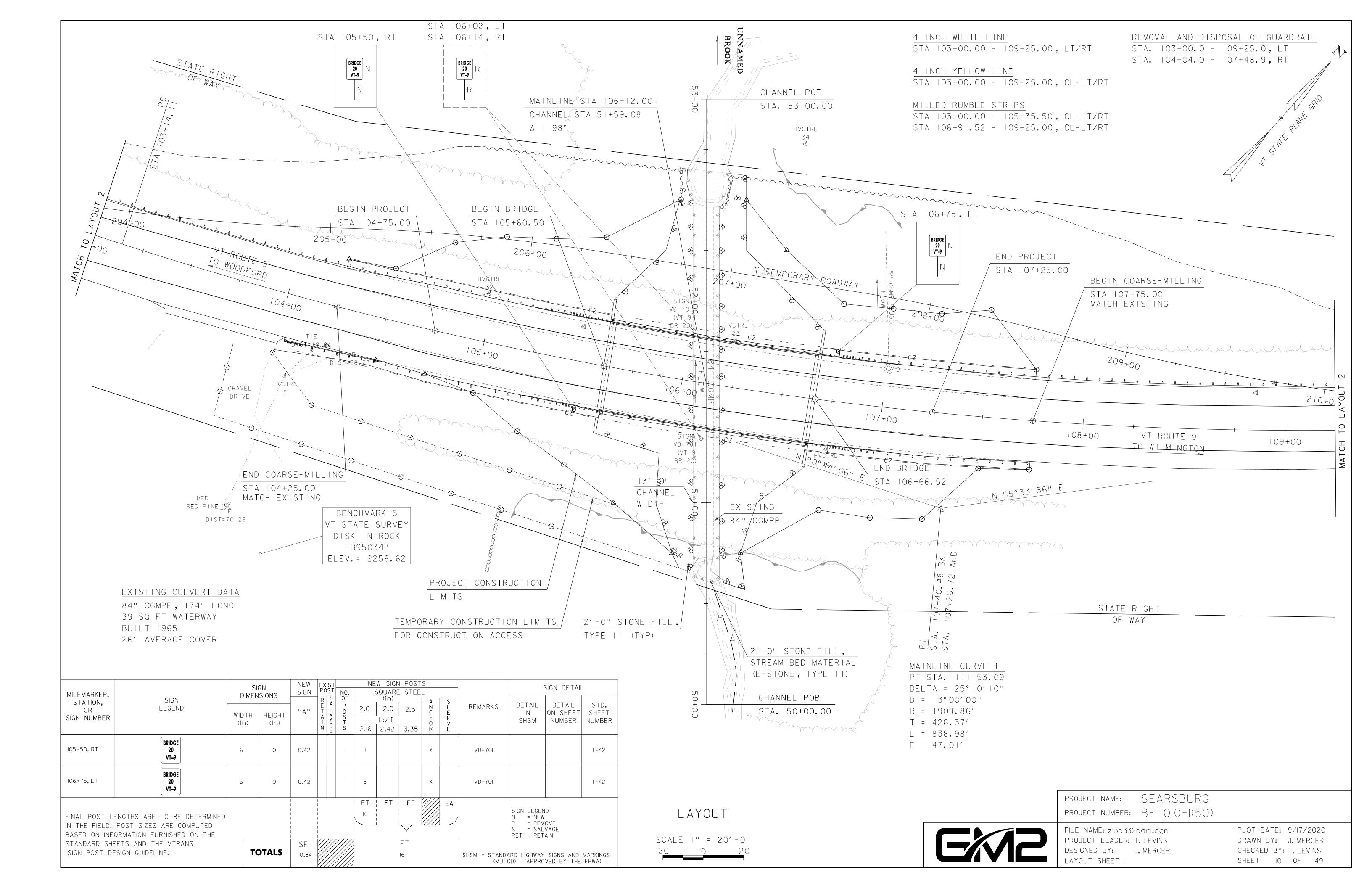
	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332notes.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING PROJECT NOTES	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 8 OF 49

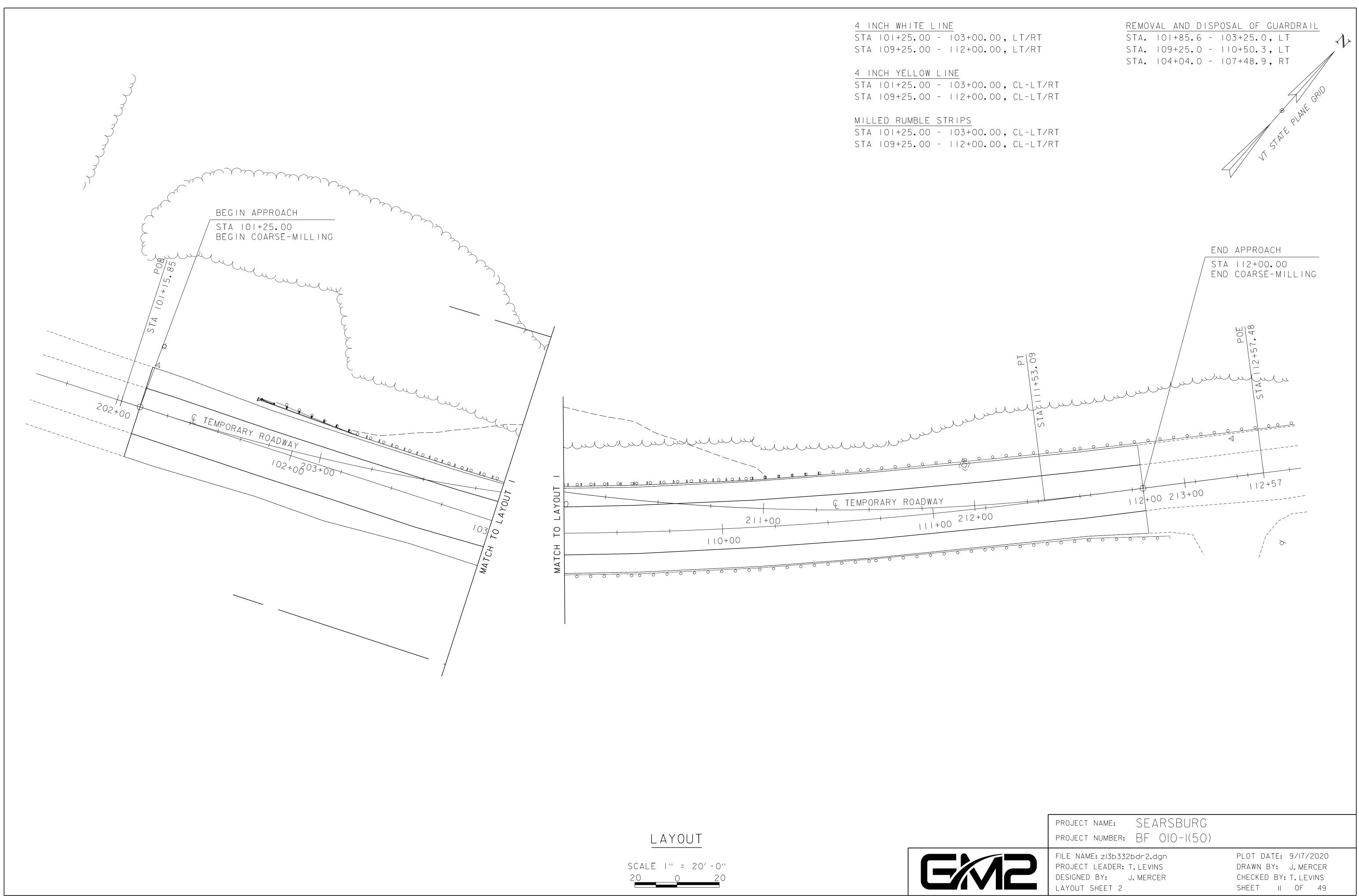


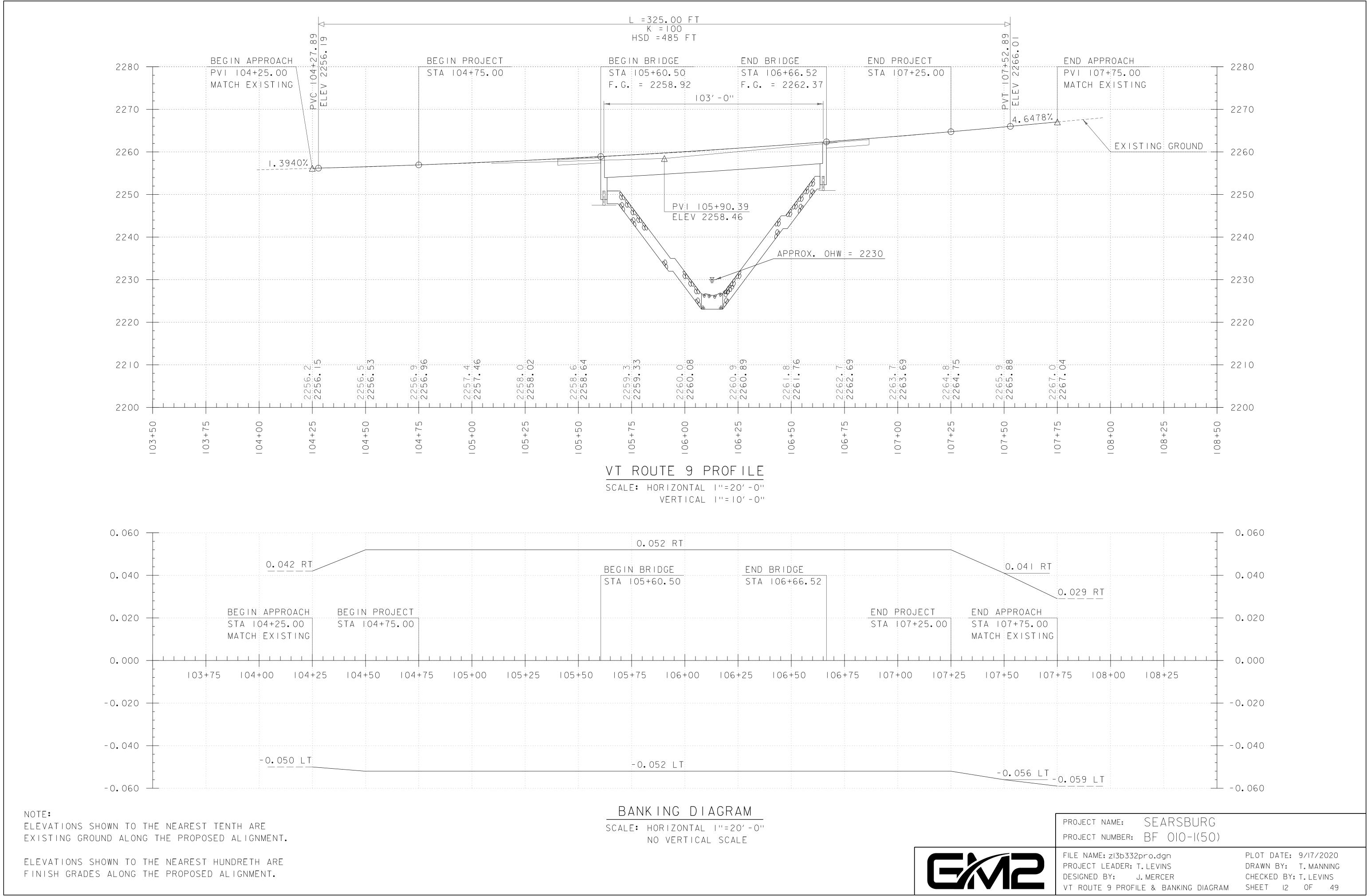
AND ABOUT LINE. TO RG GO WEST HT ON THE FRAME HOUSE GROUND ONUMENT. ER THAN POLE M ND 7.2 M NCE TO A		HVCTRL #2 B95033 NORTH = 142547.4130 EAST = 1504504.3000 ELEV. = 2162.420 SEARSBURG, VT., ABOUT 10 M BENNINGTON, VT., ABOUT 7 M 10.5 MI (16.9 KM) NORTH OF REACH FROM THE INTERSECTION ALONG VT ROUTE 9 FOR 1.6 M INTERSECTION OF THE EAST E CM BELOW GROUND SURFACE IN MONUMENT POURED TO A DEPTH OF AND ABOUT 1 M (3.3 FT) 41.4 M (135.8 FT) EAST OF POLE NO. 354/655, 7.1 M O ROAD GRADE, AND 0.5 M (1.6
5 6361 0235 6.616 SURVEY DISK 5034'' IN ROCK Y V: 2256.616	HVCRTL # 6 NORTH = 143830.2515 EAST = 1507399.5860 ELEV. = 2302.216 0 0 0 0 0 0 0 0 0 0 0 0 0	NORTH = EAST = ELEV. =
NERED BY GH,CC&	NORTH = EAST = ELEV. =	NORTH = EAST = ELEV. =

MI (16.1 KM) EAST OF MI (11.3 KM) WEST OF WILMINGTON, AND ABOUT OF THE MASSACHUSETTS/VERMONT STATE LINE. TO ION OF VT ROUTES 9 AND 8 IN SEARSBURG GO WEST MI (2.6 KM) TO THE MARK ON THE LEFT AT THE END OF AN OLD ROAD GRADE. THE MARK IS SET 2 IN THE TOP OF A 30 CM DIAMETER CONCRETE TH OF 1.5 METERS.IT IS IO.9 M (35.8 FT) SOUTH) LOWER THAN THE CENTERLINE OF VT ROUTE 9, F POLE NO. 656, 42.7 M (140.1 FT) WEST OF (23.3 FT) WEST OF THE CENTERLINE OF THE OLD .6 FT) NORTH OF A FIBERGLASS WITNESS POST.

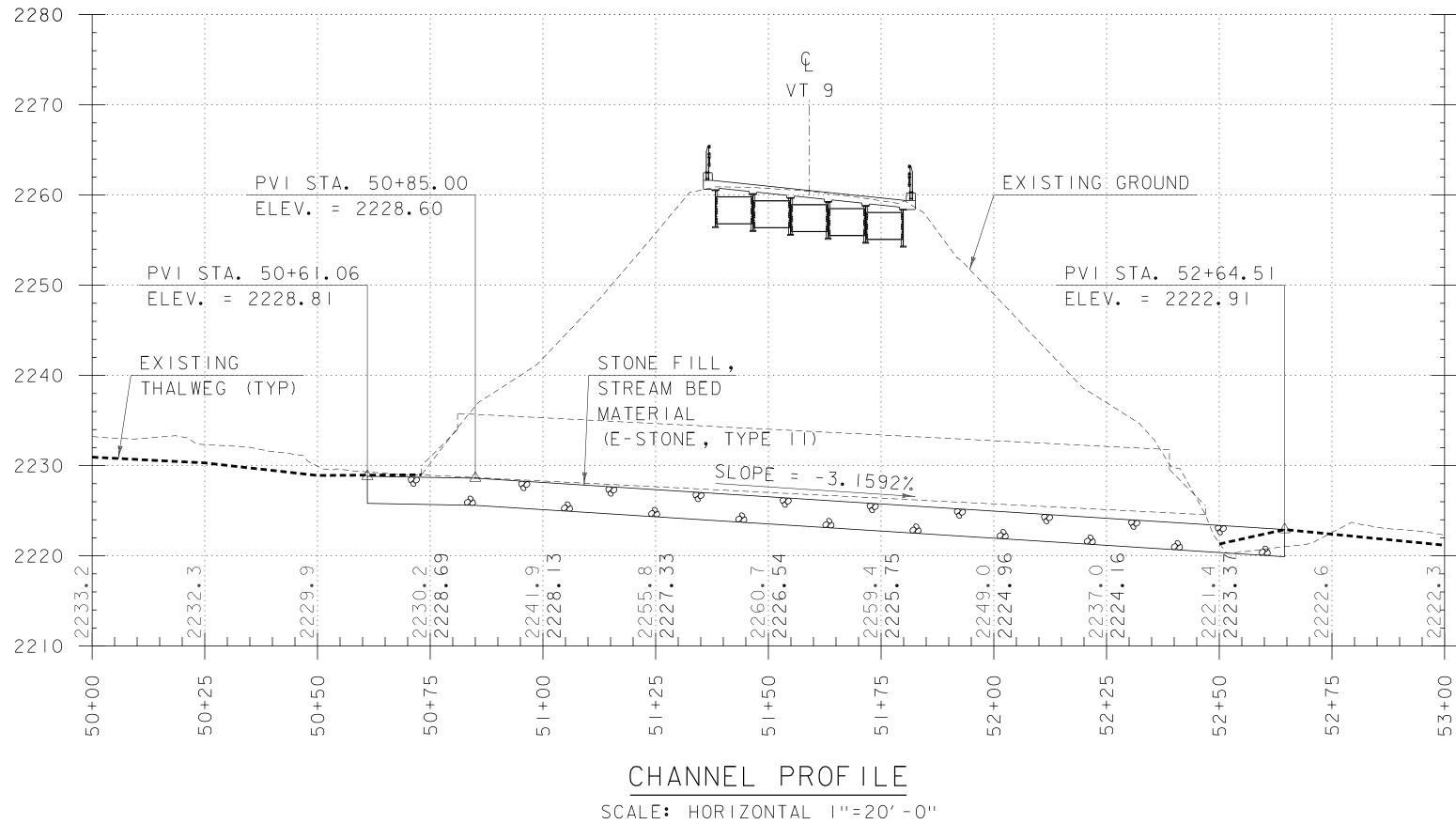
	NORTH =		
	EAST =		
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	NORTH =		
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	ELEV. =		
PROJECT NAM	E: SEARSBURG		
PROJECT NUM	ber: BF 010-1(50)		
	XI3B332TI.DGN DER: C.WILLIAMS	PLOT DATE: 9/17/2020 DRAWN BY: G.HITCHCO	
DESIGNED BY:		CHECKED BY: P. BEYOR	JUN
TIE SHEET		SHEET 9 OF 49	







	0.052 RT				
BEGIN	BRIDGE	END BRIDGE			0
STA IC	05+60.50	STA 106+66.52			
			END	PROJECT	end apf
			STA	07+25.00	STA IO7 Match E
+00 105+25 105+50 105+	75 106+00 106+	25 106+50 106	+75 107	7+00 107-	+25 107+5
	0.052 LT				-0.



VERTICAL I''=10'-0''



2280			
2270			
2260			
2250			
2240			
2230			
2220			
2210			

	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332pro.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING CHANNEL PROFILE	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 13 OF 49

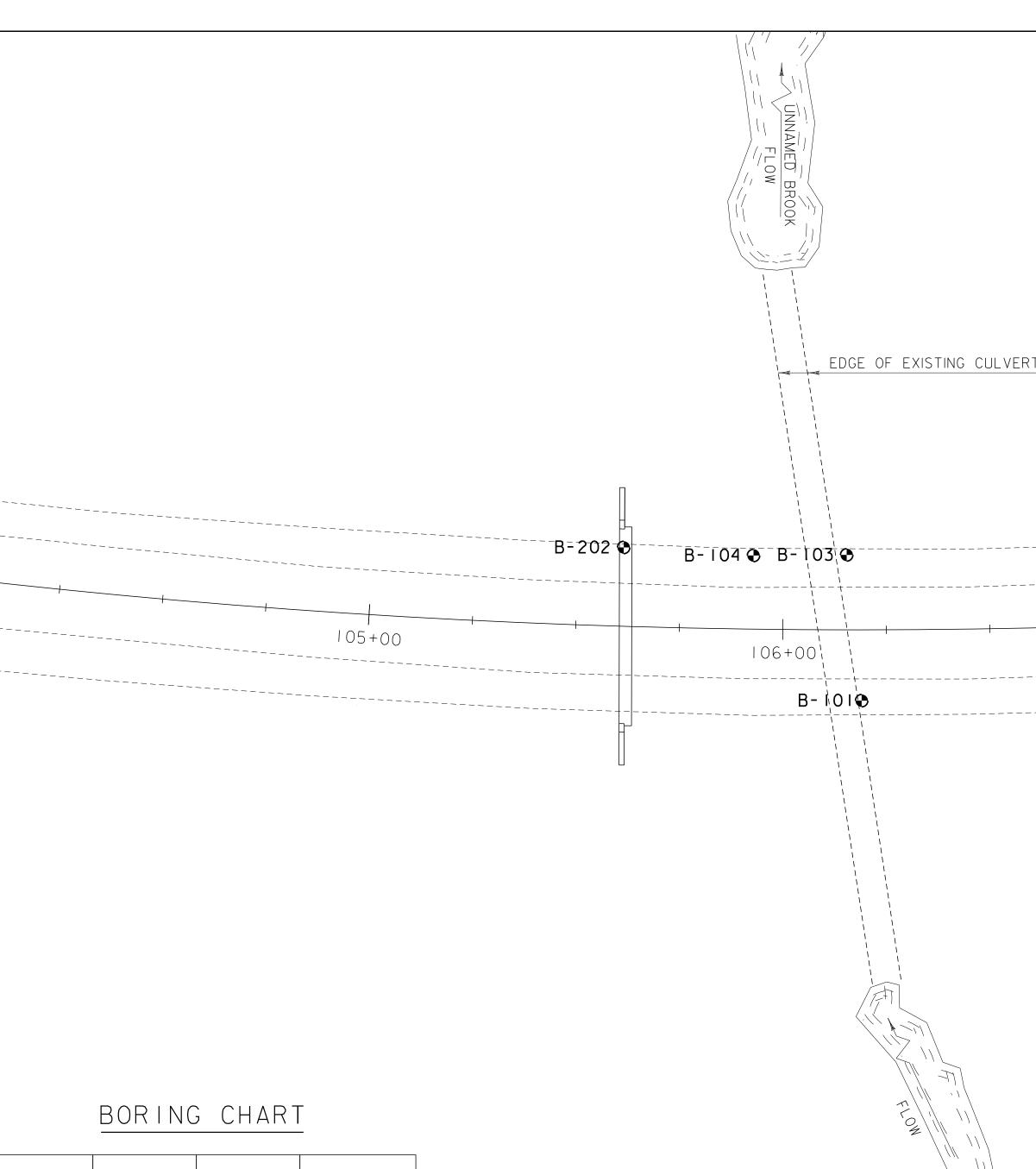
<u>AASHTO</u> AI Gravel and Sand A3 Fine Sand A2 Silty or Clayey Gravel and Sand A4 Silty Soil - Low Compressibility A5 Silty Soil - Highly Compressible A6 Clayey Soil - Low Compressibility A7 Clayey Soil - Highly Compressible	 ✓ Water Elevation ✓ Water Elevation ✓ Standard Penetration Boring ✓ Auger Boring ✓ Rod Sounding ✓ Standard Penetration Test Blow Count Per Foot For: 2" 0. D. Sampler I³/₈" I. D. Sampler ✓ Hammer Weight Of I40 Lbs. Hammer Fall Of 30" 	
ROCK QUALITY DESIGNATIONR.Q.D. (%)ROCK DESCRIPTION Very Poor25 to 50Poor Fair Good >9051 to 75Fair Good Excellent	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 2 ¹ / ₈ " NX Core Size 2 ¹ / ₈ " M Double Tube Core Barrel Used LL Liquid Limit PL Plastic Limit PL Plastic Limit PI Plasticity Index NP Non Plastic W Moisture Content (Dry Wgt.Basis) D Dry	
SHEAR STRENGTHUNDRAINEDSHEAR STRENGTHIN P.S.F.<250	M Moist MTW Moist To Wet W Wet Sat Saturated Bo Boulder Gr Gravel Sa Sand Si Silt Cl Clay HP Hardpan Le Ledge NLTD No Ledge To Depth CNPF Can Not Penetrate Further TLOB Top of Ledge Or Boulder NR No Recovery Rec. Recovery %Rec. Percent Recovery ROD Rock Quality Designation	104+00
CORRELATION GUIDE OF "N" TO DENSITY CONSISTENCY (GRANULAR SOILS)DESCRIPTIVE (GRANULAR SOILS)CONSISTENCY (COHESIVE SOILS)DESCRIPTIVE (COHESIVE SOILS)DESCRIPTIVE (CHESIVE SOILS)NTERM (COHESIVE SOILS)NVery Loose 5-10 1I-24 So Very DenseNTERM (COHESIVE SOILS)NTERM (COHESIVE SOILS)NDESCRIPTIVE (COHESIVE SOILS)DESCRIPTIVE (COHESIVE SOILS)NTERM (COHESIVE SOILS) <td>CBR California Bearing Ratio CBR California Bearing Ratio Cess Than Creater Than R Refusal (N > 100) VTSPG NAD83 - See Note 7 <u>COLOR</u> blk Black pnk Pink bl Blue pu Purple brn Brown rd Red dk Dark tn Tan gry Gray wh White gn Green yel Yellow It Light mitc Multicolored or Orange</td> <td></td>	CBR California Bearing Ratio CBR California Bearing Ratio Cess Than Creater Than R Refusal (N > 100) VTSPG NAD83 - See Note 7 <u>COLOR</u> blk Black pnk Pink bl Blue pu Purple brn Brown rd Red dk Dark tn Tan gry Gray wh White gn Green yel Yellow It Light mitc Multicolored or Orange	
DEFINITION BEDROCK (LEDGE) - Rock in its native location of indefinite thickness. BOULDER - A rock fragment with an average dimension > 12 inches. COBBLE - Rock fragments with an average dimension between 3 and 12 inches. GRAVEL - Rounded particles of rock < 3" and > 0.0787" (#10 sieve). SAND - Particles of rock < 0.0787" (#10 sieve) and > 0.0029" (#200 sieve). SILT - Soil< 0.0029" (#200 sieve), non or slightly plastic and exhibits no strength when air-dried. CLAY - Fine argined soil, exhibits	 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 	I. The s B-IOI, E 09-I5-I Holes 08-29- 2. Soil ar ties c engine availat the A reflec surfa encou boring 3. Obser

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

with a horizontal plane.

horizontal plane.

DIP - Inclination of bed with a



HOLE NO.	STATION	OFFSET	GROUND Elev.
B-101	06+ 9	17.2	2260.3
B-103	06+ 2	- 18.0	2259.0
B-104	105+93	- 7.8	2258.7
B-20I	106+66	19.0	2262.5
B-202	105+61	- 19.0	2258.0

subsurface explorations for holes B-103 & B-104 were made between -15 and 09-22-15 by the Agency. B-201 & B-202 were made between B-18 and 08-30-18 by Terracon.

and rock classifications, properand descriptions are based on neering interpretation from able subsurface information by Agency and may not necessarily ect actual variations in subace conditions that may be ountered between individual ng 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

BORING LAYOUT

SCALE |'' = 20'-0''

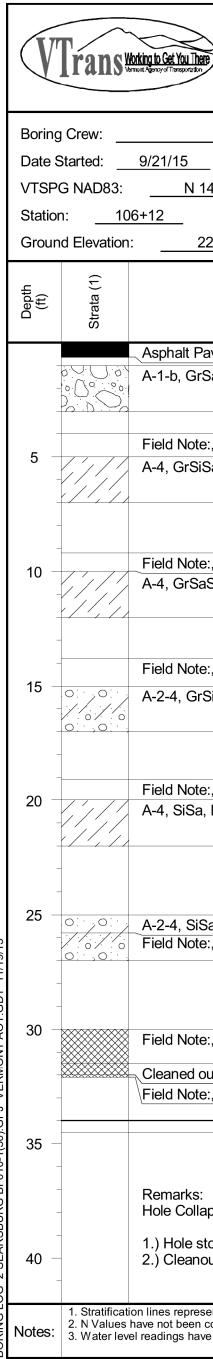
- 4. Engineering judgment was exercised in preparing the subsurface information presented herein. Analysis and interpretation of subsurface data was performed and interpreted for Agency design and estimating purposes. Presentation of the information in the Contract is intended to provide the Contractor 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 the boring plan layout or s profile are for illustrative only and may not accurated portray final contract dete

 $\langle \langle \langle \rangle \rangle$

- 6. Terminology used on boring describe the hardness, degr weathering, and spacing of fractures, joints and other discontinuities in the bedro defined in the AASHTO Manu Subsurface Investigations, IS
- 7. Northing and Easting coord are shown in Vermont Stat Grid North American Datum meters and survey feet.

_		A State
● B-20L-		
shown on		
shown on soils purposes ely fails. g logs to		
ree of rock is ualon 1988.		
dinates te Plane 1983 in	PROJECT NAME: SEARSBURG PROJECT NUMBER: BF 010-1(50)	
	FILE NAME: zI3b332bor_info.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: B.WILLIAMS BORING INFORMATION SHEET	PLOT DATE: 9/17/2020 DRAWN BY: B.WILLIAMS CHECKED BY:T.LEVINS SHEET 14 OF 49

VTrans Working to Get Yo Verrusit Agency of Transp	STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY	BORING LOG SEARSBURG BF 010-1(50) VT-9 BR #20 Casing Sampler	Pag Pin Che	ing No.: ge No.: No.: ecked By:		f 2 32 ND		VTran	STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY	<u>2 o</u> 13b3 E	32 END
ing Crew: e Started:9/15/15 SPG NAD83: tion:106+19 und Elevation:	N 143483.83 ft E 1506741.41 ft Hammer W Offset: 17.20 Hammer/Ro	WB SS Date 4 in 1.5 in 09/17/15 II: N.A. 30 in. 09/17/15	oundwa Dept (ft) 27.3 7.9	B Befor	vations Notes e Drilling Drilling.	g.	D V S	oring Crew: pate Started: TSPG NAD8 tation: pround Eleva	JUDKINS, HOOK Type: WB SS Date Finished: 9/17/15 9/15/15 Date Finished: 9/17/15 I.D.: 4 in 1.5 in Date Depth (ft) 33: N 143483.83 ft E 1506741.41 ft Hammer Wt: N.A. 140 lb. 09/17/15 27.3 Before 106+19 Offset: 17.20 Hammer/Rod Type: Auto/AWJ 09/17/15 7.9 After	vations Notes e Drillin Drilling	ng.
Strata (1)	CLASSIFICATION OF MATERIA (Description)		(N Value)	Moisture Content % Gravel %	Sand %	Fines %	Depth	Strata (1)	CLASSIFICATION OF MATERIALS (Description)	Sand %	Fines %
	t Pavement, 0.0 ft - 0.6 ft SaGr, Lt/brn, Moist, Rec. = 10.0 ft	10	2-12-)-13 22)	5.8 45.	.5 41.3	3 13.2			A-4, SaGrSi, brn, Moist, Rec. = 0.4 ft, Lab Note: Broken Rock was within sample. 30- R@2.5" 9.6 34- R@2.5" A-4, SiSa, brn, Moist, Rec. = 1.3 ft 28-34- 25- R@2.5" 13.6 16- 25- R@2.5"		
	lote:, Cleaned out Casing. GrSiSa, Lt/brn, Moist, Rec. = 1.3 ft	14	-14- 1-17 28)	9.9 24.	.8 40.2	2 35.0	2	45 -	A-2-4, SaGrSi, brn, Moist, Rec. = 1.2 ft 36-18- 12.9 33	6 32.2	2 34
	lote:, Cleaned out Casing. rSaSi, brn-gry, Moist, Rec. = 0.4 ft		6-10- 17 16)	11.4 29.	.0 32.7	7 38.3	Ę	50	A-2-4, GrSiSa, gold-brn, Moist, Rec. = 0.9 ft (33) Visual Description:, SaGr, gold-brn, Moist, Rec. = 0.1 ft, Lab Note: Visual Description only. R@1.5" Insufficient sample size for testing. 7.5	7 51.6	3 25
	lote:, Cleaned out Casing. lote:, No Recovery.	R@)1.5" (R)				Ę	- - 55 - <u>o</u> - - -	Field Note:, Cleaned out Casing. A-2-4, Sa, Lt/brn, Moist, Rec. = 0.3 ft Field Note:, Cleaned out Casing.	7 79.6	3 18
	lote:, Cleaned out Casing. SaSiGr, brn-gry, Moist, Rec. = 1.0 ft, Lab Note: Broken	15	-16- 5-11 31)	10.0 37.	.4 29.8	3 32.8	6	50	Field Note:, No Recovery., Clean out barrel was full of cobbles and boulders. R@0.0" Hole stopped @ 60.0 ft (R)		
	lote:, Cleaned out Casing. lote:, No Recovery.		8-6-5 14)				3DT 11/19/15	- - - - - -	 Remarks: Hole Collapsed at 26.0 feet. 1.) Started using CME 45 Track rig at 44.0 feet. 2.) Added bentonite to drilling operation at 44.0 feet. 3.) Very hard drilling from 44.0 feet. 		
	GrSaSi, brn-gry, MTW, Rec. = 0.9 ft		2-1-1 (3)	17.8 25.	.9 39.7	' 34.4	VERMONT AOT.C	70			
Field N A-2-4,	SaGr, brn-gry, MTW, Rec. = 0.6 ft lote:, Cleaned out Casing. Sa with little (12.14%) organic material, blk, Moist, Rec.	= 0.7 ft, Lab Note: Organic 4-5	(9)	12.9 49. 75.7 8.0			F010-1(50).GPJ				
A-4, Si determ	t determined using AASHTO T-267. Sa with trace (<5%) organic material, Rec. = 1.1 ft, Lab ined visually. rSaSi, brn, Moist, Rec. = 0.9 ft, Lab Note: Broken Rock	Note: Organinc content 2-12 (3) was within sample. 33	3-20- 24 33)	22.0 10. 16.4 25.			2 SEARSBURG B	-			





STATE OF VERMONT AGENCY OF TRANSPORTATIO CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY			SEA BF	ING LOG RSBURG 010-1(50) 9 BR #20		Pa Pir	ring No. ge No. 1 No.:	o.: <u>1 of 1</u>			
GARROW, NIETO _ Date Finished: <u>9/21/15</u> <u>143527.70 ft E 1506731.50 ft</u> Offset: <u>-18.00</u> 2259.0 ft	Type: I.D.: Hammer Hammer Hammer/ Rig: C	Fall: /Rod Typ	Casing WB 4 in N.A. N.A. pe: Au	Sampler SS 1.5 in 140 lb. 30 in. ito/AWJ $C_{\rm F} = 1.33$	Dat	Groundw e Dep (ft	rater O hth	bserva N	-		
CLASSIFICATION (Descri				<u> </u>		Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	Fines %	
avement, 0.0 ft - 0.63 ft							2 ŭ	0	0)		
Sa, Lt/brn, Moist, Rec. = 1.1 ft						7-8-9-9 (17)	6.0	40.6	47.6	11.	
e:, Cleaned out casing.											
Sa, Lt/brn, Moist, Rec. = 1.6 ft						16-19- 21-21 (40)	10.1	20.6	41.0	38.	
e:, Cleaned out casing.											
Si, Lt/brn, Moist, Rec. = 0.8 ft						12-13- 18-16 (31)	11.5	27.4	34.4	38.	
e:, Cleaned out casing.						8-11 14	11 0	ר טט	דכע	33.	
SiSa, Lt/brn, Moist, Rec. = 0.9 ft						8-11-11- 13 (22)	11.9	22.1	43.7	33.	
e:, Cleaned out casing. Lt/brn-gry, Moist, Rec. = 1.5 ft						11-18- 11-7 (29)	13.0	18.7	41.5	39.	
SaGr, Lt/brn, Moist, Rec. = 0.3 ft e:, Cleaned out casing., Appears to be (Cobbles.					8-R@4" (R)	9.9	37.4	36.8	25.	
e:, No Recovery, Appears to be Silt.						WR-WR-					
out casing., 31.5 ft - 34.5 ft e:, No Recovery						WR-10 (WR) R@1" (R)					
Hole stoppe	d @ 34.0 ft										
apsed at 31.9 feet.											
topped due to broken clean out barrel. but barrel remains in the ground.											
ent approximate boundary between material typ	es. Transition r	may be gra	adual.								
corrected for hammer energy. C _E is the hammer e been made at times and under conditions stat	energy correct ed. Fluctuation	tion factor. ns may occ	cur due to ot	her factors than	those pre	esent at the ti	me mea	suremer	nts were	mad	
		~ [^ _									
PROJECT NAM Project num			RSBU) 0- (
FILE NAME: PROJECT LEA	zI3I DER: T.L	b332d _EVINS	or_inf		DR	OT DAT Awn by	: T	. MAI	2020 NNING		
DESIGNED BY: BORING LOGS		MANNIN	IG			ECKED EET	3Y: T 15	.LE∖ OF	/INS 49		

	~	STATE OF VERMONT		BORI	NG LOG		Bo	ring No	D.: -	B-1(04
	Trange		ON	SEA	RSBURG		Pa	ge No.	: _	1 of	2
	11 4113	MATERIALS BUREAU CENTRAL LABORATORY			10-1(50) BR #20			No.:		13b33	
				Casing	Sampler			ecked	-	<u>EN</u>	1D
Boring	g Crew:	GARROW, NIETO	Type:	WB		Dat	Groundw			otes	
	Started:	9/22/15 Date Finished: 9/22/15	I.D.:	<u>4 in</u>	1.5 in	Da	te Dep (ft		IN	oles	
	PG NAD83:		Hamme Hamme		<u>140 lb.</u> 30 in.	09/22	2/15 26.4	4 V	V.T. aft	er drill	ling
Statio	n: <u>10</u> nd Elevation	5+93 Offset: <u>-17.80</u> 2258.7 ft			to/AWJ						
Groui		2236.7 It	Rig:	CME 45C SKID	$C_{\rm F} = 1.33$						
Depth (ft)	Strata (1)	CLASSIFICATION (Descri		ERIALS			Blows/6" (N Value)	Moisture Content %	Gravel %	Sand %	
		Asphalt Pavement, 0.0 ft - 0.65 ft					-				
	_										
	_										
-	_										
5 -	_										
	-										
	_										
	_										
10 -											
10	_										
	_										
	_										
	_										
15 -	_										
-	_										
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-	_										
20 -	_										
-	_										
	-										
	-										
	-										
25 -											
-	_									1	
-	_										
30 -		A-1-b. SaGr. grv. Moist. Rec. = 0.5 ft					15-10-9-	13.1	47.5	38.5	
30 -		A-1-b, SaGr, gry, Moist, Rec. = 0.5 ft					15-10-9- 21 (19)	13.1	47.5	38.5	
30		A-1-b, SaGr, gry, Moist, Rec. = 0.5 ft A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Lab Note:	Broken Ro	ock was within sam	ble.		(19)	13.1 8.7		38.5 22.5	
30			Broken Ro	ock was within sam	ble.		15-10-9- 21 (19) 38- R@2.5" (R)				
-		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Lab Note: Field Note:, Cleaned out casing. A-2-4, SiSaGr, gry-brn, Moist, Rec. = 0.8 ft, Field	d Note: Bro	own appears in thin			(19) 38- R@2.5" (R) 48-R@5"				
30		A-1-a, SaGr, gry, Moist, Rec. = 0.8 ft, Lab Note: Field Note:, Cleaned out casing.	d Note: Bro Rock was w	own appears in thin <i>i</i> ithin sample.	alternating		(19) 38- R@2.5" (R)	8.7	69.8 33.7	22.5	

Date S	Crew:	STATE OF VERMONT AGENCY OF TRANSPORTATION CONSTRUCTION AND MATERIALS BUREAU CENTRAL LABORATORY GARROW, NIETO 9/22/15 Date Finished: 9/22/15	Type: I.D.:		SEAI BF 0 VT-9 Casing WB 4 in	NG LOG RSBURG 10-1(50) 9 BR #20 Sampler <u>SS</u> <u>1.5 in</u>	Dat	Pa Pir Ch Groundv	oth	b.: d By: Observa	<u>B-1(</u> 2 of 2 13b332 EN tions otes	2 2
Station	G NAD83: n: <u>10</u> d Elevatior	05+93 Offset: -17.80					09/22	/15 26.	4	W.T. af	ter drill	ing.
Depth (ft)	Strata (1)	CLASSIFICATION (Descr		ERIALS				Blows/6" (N Value)	Moisture Content %		Sand %	Fines %
45 —		 A-1-b, SiSaGr, Lt/brn, Moist, Rec. = 0.9 ft Field Note:, Cleaned out casing. A-2-4, SiSaGr, Lt/brn-brn, Moist, Rec. = 0.7 ft, L Field Note:, No Recovery Field Note:, Cleaned out casing. 	.ab Note:	Broken R	ock was wit	thin sample.		24-23- 14-13 (37) 17-17- 14- R@2.5" (31) R@0" (R)	10.1		29.4 33.6	
-		Field Note:, No Recovery, Appears to be sand ar Field Note:, Cleaned out casing., Appears to be Field Note:, No Recovery, Appears to be sand. Field Note:, Cleaned out casing., Appears to be	cobbles a	nd Boulde				R@1" (R) R@0" (R)				
50		A-1-b, SaGr, Lt/brn, Moist, Rec. = 0.4 ft, Lab No	te: Broke	n Rock wa	as within sa	imple.		R@5" (R)	13.4	47.5	34.9	17.6
55 — - -	** * · · · · ·	A-3, Sa, Lt/brn, Moist, Rec. = 0.2 ft						R@2.5" (R)	29.8	3 3.6	90.4	6.0
60	******	Remarks:	d @ 60.6	ft				28-R@1" (R)	 			
65 — - -		Hole Collapsed at 60.6 feet.										
70												
75 — - - -												
Notes:	2. N Values	tion lines represent approximate boundary between material typ s have not been corrected for hammer energy. C_E is the hammer vel readings have been made at times and under conditions stat	energy cori	ection facto	r.	er factors than	those pre	esent at the t	ime me	easuremei	nts were	made.



	project name: SEARSBURG	
	project number: BF 010-1(50)	
2	FILE NAME: zI3b332bor_info.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING BORING LOGS (2 OF 4)	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 16 OF 49

STATE OF VERMONT		g No.: <u>B-201</u>	STATE OF VERMONT	BORING LOG	Boring No.:	<u>B-201</u>
AGENCY OF TRANSPORTATION MATERIALS & RESEARCH SECTION	JLANJDUNG	No.: <u>1 of 3</u>	AGENCY OF TRANSPORTA MATERIALS & RESEARCH SE		Page No.:	2 of 3 13b332
		o.: <u>13b332</u>		ION BF 010-1(50) VT-9 BR #20	Pin No.:	
I		ked By: <u>LJD</u>		Casing Sampler	Checked By:	
Crew: <u>Terracon/Ron B.</u> Type:		er Observations	Boring Crew: <u>Terracon/Ron B.</u>	Type: <u>Casing</u> <u>SS</u>	Groundwater Obser	Boring Crew
arted: <u>8/28/18</u> Date Finished: <u>8/29/18</u> I.D.:	41.5 in But 05001	Notes	Date Started: <u>8/28/18</u> Date Finished: <u>8/29/18</u>	I.D.: <u>4</u> <u>1.5 in</u>	Date Depth (ft)	Notes Date Started: _
NAD83: <u>N 143507.42 ft E 1506795.61 ft</u> Hammer Wt: Hammer Fall	[08/28/18] 25.0	While drilling	VTSPG NAD83: <u>N 143507.42 ft E 1506795.61 ft</u>	Hammer Wt: <u>140 lb.</u> <u>140 lb.</u> Hammer Fall: <u>30 in.</u> <u>30 in.</u>	8/28/18 25.0 While	e drilling VTSPG NAD83:
<u>106+66</u> Offset: <u>19.00</u> Hammer/Roc		End of day	Station: <u>106+66</u> Offset: <u>19.00</u>	Hammer/Rod Type: Automatic 0	8/28/18 19.0 End c	of day Station: <u>10</u>
Elevation: 2262.5 ft Rig: CM	<u>E 550X</u> <u>$C_{\rm F} = 1.44$</u> 08/29/18 25.0	End of day	Ground Elevation: 2262.5 ft	Rig: <u>CME 550X</u> <u>C_F = 1.44</u> 0	8/29/18 25.0 End c	of day Ground Elevation
	Rate ss/ft ss/6"	a % s %	र्ट्टू इ.ट. ट.ASSIFICATION	OF MATERIALS	Rate es/ft s/6" alue) int % el %	a (1)
(Description)	N V8	Sanc	CLASSIFICATION		Drill F minuti Blow (N Vê (N Vê (N Vê Conte	Sand Deptt (ft) Strata
5-inches of asphalt pavement			A-4, SiSa, olive brown, Rec. = 1.17 ft, (GLA	CIAL TILL)	17-16- 12 16. 15-22	6 46.8 36.6
$\checkmark \checkmark \checkmark$ Sa, brown, Rec. = 0.5 ft, (FILL) $\checkmark \checkmark \checkmark$	15 (32)				(31)	
$\checkmark \not\prec \not\prec$ Sa, brown, Rec. = 1.0 ft, (FILL)	12-12- 15-10					
$\langle \star \star \star \rangle$	(27)					
SiSa, gray-brown, Rec. = 0.75 ft, (FILL)	10-9-8-					75 -
· * *	(17)		40 SiSa, olive brown, Rec. = 0.58 ft, (GLACIAL	TILL)	41-65- 50/3"	
No recovery, Rec. = 0.0 ft	16-36- 27-24				(115+)	
	(63)					
\checkmark X A-4, SaSi, gray-brown, Rec. = 1.17 ft, (FILL)	8-10-7-12	9 14.9 41.3 43.7				
* *	(17)					
SiSa, gray-brown, Rec. = 1.0 ft, (FILL)	10-6- 10-30		45 SiSa, olive brown, Rec. = 0.75 ft, (GLACIAL	TILL)	22-53/3"	80 -
\star \star	(16)					
\checkmark \checkmark SiSa, gray-brown, Rec. = 1.25 ft, (FILL)	26-20- 16-12 (36)					
	(36)					
SiSa, gray-brown, Rec. = 1.17 ft, (FILL)	3-4-11-		50			
. * *	(15)		50 SiSa, olive brown, Rec. = 0.17 ft, (GLACIAL	TILL)	55/2"	85 -
SiSa, light brown, Rec. = 1.42 ft, (FILL) $\checkmark \checkmark \checkmark$	7-21- 21-26					
	(42)					
A-4, GrSiSa, gray-brown, Rec. = 0.67 ft, (FILL)	13-21	8 25.9 37.6 36.5				
· * *	(24)		55			90 -
SiSa, gray-brown, Rec. = 0.25 ft, (FILL)	6-19- 18-15		55 GrSiSa, olive brown, Rec. = 0.33 ft, (GLACI	AL TILL)	60/4"	
\star \star	18-15 (37)		∞			
No recovery, Rec. = 0.0 ft	9-8-5-3 (13)					
\checkmark \checkmark A-4, SaSi, olive brown, (FILL) \checkmark \checkmark Rec. = 0.83 ft	4-7-5					
	4-7-5 (12)		60 GrSiSa, olive brown, Rec. = 0.25 ft, (GLACI	AL TILL)	50/3"	
A-4, SiSa, olive brown, Rec. = 1.5 ft, (GLACIAL TILL)	5-8-7-7 (15)	15 9.4 47.4 43.2				
			Image: Second se			10-°G
<u></u>						
A-2-4, olive brown, Rec. = 0.67 ft, (GLACIAL TILL)	55-51- 10-8					
	(61)		ARSE			ARSE
Stratification lines represent approximate boundary between material types. Transition may be gradual.			1. Stratification lines represent approximate boundary between material types. Transition may be grave 2. N Values have not been corrected for hammer energy. C_F is the hammer energy correction factor			CONTINUES: 1. Stratification lin 2. N Values have 3. Water level rea Fluctuations of gr 4. Ground surface

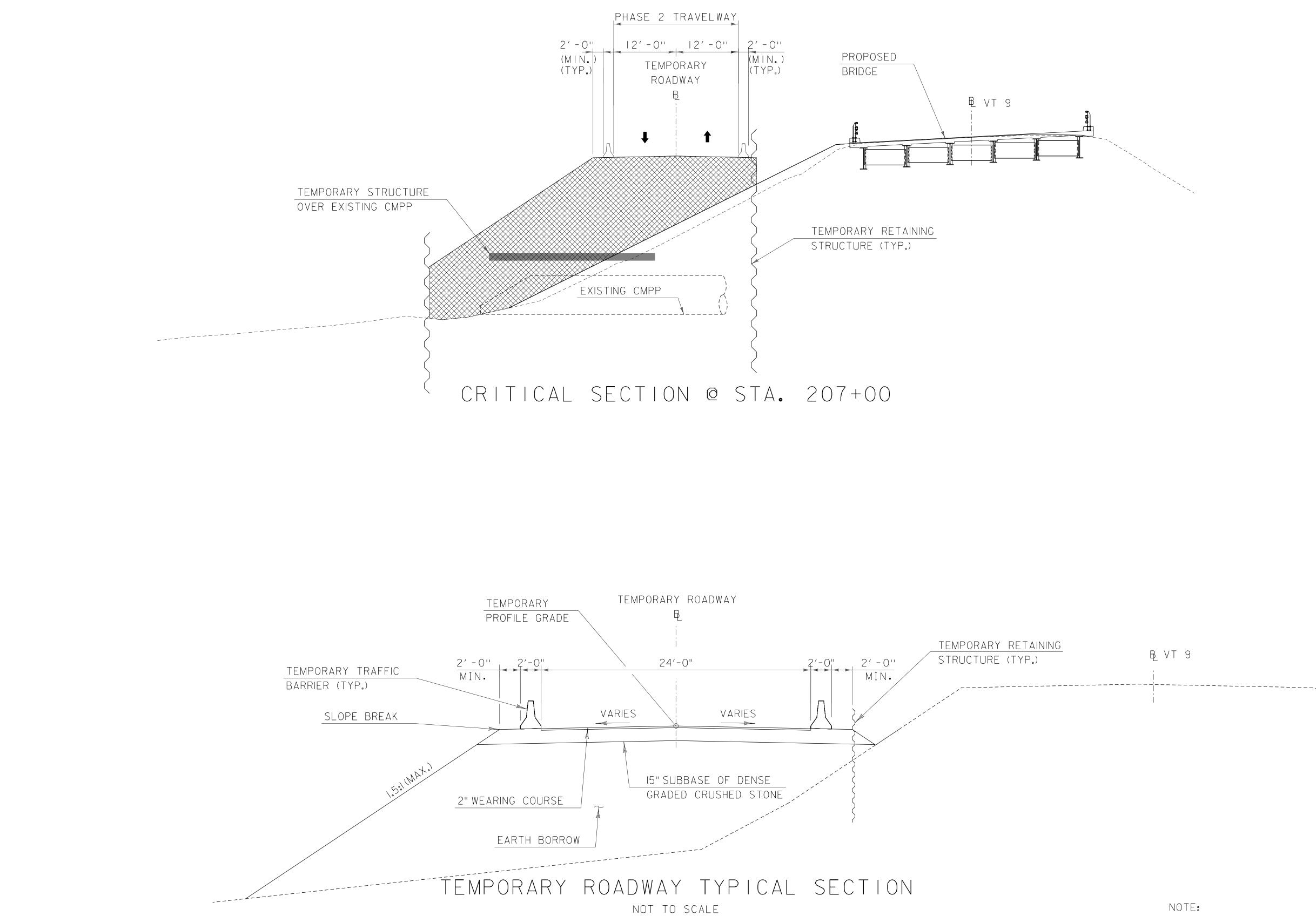


$\overline{}$	STATE OF VERMONT		BORI	NG LOG			oring I		B-20		
net				RSBURG			age N	_	3 of 3		
Verma		ION NT 0 PP (00					Pin No.: <u>13b33</u> Checked By: L				
			Casing	Sampler				-	LJ	D	
v:	Terracon/Ron B.	Type:	Casing	SS		-		Observ			
	8/28/18 Date Finished: 8/29/18	I.D.:	4	1.5 in	Date		pth ft)	N	lotes		
D83:	N 143507.42 ft E 1506795.61 ft	Hamme Hamme		<u>140 lb.</u> 30 in.	08/28/1	8 25	.0	While	drilling		
	<u>6+66</u> Offset: <u>19.00</u>		er/Rod Type: <u>A</u> u	utomatic	08/28/1	8 19	.0	End of	day		
vation	: <u>2262.5 ft</u>	Rig: _	CME 550X	$C_{\rm F} = 1.44$	08/29/1	8 25		End of	day		
	CLASSIFICATION				tate es/ft	s/6" (eu	Moisture Content %	%	%	%	
	(Descrip		NALO		Drill Rate minutes/ft	Blows/6" (N Value)	Moist	Gravel %	Sand %	Fines	
~~~~~	GrSiSa, Rec. = 0.17 ft, (GLACIAL TILL)					50/2"	-0				
	Roller bit resistance at 71 feet. Roller bit refu	sal at 74 fe	eet Rock core at 7	4 feet		00/2					
				11001.							
	74.0 ft - 79.0 ft, Probable boulder. NX				3.5						
H)					2.75						
					1.5						
H)					2						
					5.75						
	Advanced roller bit from 79 to 100 feet throug	gh probable	e Glacial Till.								
	Hole stopped	@ 100.0 ft	t				•	•			
ies have n level readi	s represent approximate boundary between material types. Transition may be gradu ot been corrected for hammer energy. C _e is the hammer energy correction factor. C ings have been made at times and under conditions stated.	C _E is an estimated v	alue.				٦٢		360		
ns of grou surface of	undwater may occur due to other factors than those present at the time measureme elevations indicated on the boring logs were estimated based on the grading plan pl	ents were made. rovided by VAOT.									
	PROJECT NAM	ME•	SEARSBU	RC							
	PROJECT NUN	MBER:	BF 010-1(	50)							
	FILE NAME:	Z	3b332bor_inf	o.dgn	PLO	T DA	TE:	9/17/	2020		
	PROJECT LEA	ADER: T.	LEVINS			WN B			NNING		
	DESIGNED BY		MANNING					T.LE			
	BORING LOGS		1)		SHE	FΤ	17	OF	49		

STATE OF VERMONT AGENCY OF TRANSPORTATIO	BORING LOG N SEARSBURG			ng No.: e No.:		<b>B-202</b> l of 2	_		STATE OF VERMONT AGENCY OF TRANSPORTA		BORING LOG searsburg			oring No.: age No.:	E2
AGENCY OF TRANSPORTATIO	ON BF 010-1(50) VT-9 BR #20			No.: cked B	13		_	<b>v</b> Irans	Monthing to Get You There Vermont Agency of Transportation Vermont Agency of Transportation SUBSURFACE INFORMAT	CTION	BF 010-1(50) VT-9 BR #20			n No.: necked B	13b y:
	Casing Sampler	Gro	oundwat		_		_	Baring Crow	Torreson/Don P		Casing Sampler	G		/ater Obs	
	Type: <u>Casing SS</u>	Date	Depth	ו ו	Note	s		Boring Crew:	Terracon/Ron B.           8/29/18         Date Finished:         8/30/18	Type:	Casing SS	Date	Dep	oth	Notes
	.D.: <u>4</u> <u>1.5 in</u> Hammer Wt: <u>140 lb.</u> <u>140 lb.</u>		(ft)					VTSPG NAD83		I.D.: Hammer	Wt: <u>140 lb.</u> <u>1.5 in</u> 140 lb.	00/00/4	(ft	,	
	Hammer Fall: <u>30 in.</u> <u>30 in.</u>	08/29/18	21.0		ile drilli	<u> </u>		Station: 1		Hammer	⁻ Fall: <u>30 in.</u> <u>30 in.</u>	08/29/1			ile drillin
	Hammer/Rod Type:AutomaticRig:CME 550X $C_F = 1.44$	08/30/18	21.0	Enc	l of day	y		Ground Elevation			7/Rod Type: <u>Automatic</u> <u>CME 550X C_F = 1.44</u>	08/30/1	8 21.	J End	d of day
CLASSIFICATION OF (Descriptio		Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %		Sand %	Fines %	Depth (ft) Strata (1)	CLASSIFICATION (Descri		IALS	Core Rec. % (RQD %)	Blows/6" (N Value)	Moisture Content %	Gravel % Sand %
8-inches of asphalt pavement		0							SiGrSa, Rec. = 0.67 ft, (GLACIAL TILL)			Ŭ	12-12- 11-24		
「			2-8-6-										(23)		
Sa, with cobbles, brown, Rec. = 1.08 ft, (FILL)		9	(14) -11-8-												
			33 (19)												
GrSiSa, olive brown, Rec. = 1.17 ft, (FILL) $\checkmark \checkmark \checkmark \checkmark$		7.	-8-10- 12												
			(18)					40	No recovery, advanced roller bit through cot	bles, Rec. =	= 0.0 ft, (GLACIAL TILL)	7	50/2"		
$\checkmark$ $\checkmark$ $\checkmark$ GrSiSa, olive brown, Rec. = 0.83 ft, (FILL)		1	4-8-7- 7												
			(15)												
GrSiSa, olive brown, Rec. = 1.17 ft, (FILL)		3	3-4-9- 10												
			(13)					45							
$\checkmark$ $\checkmark$ $\checkmark$ GrSiSa, olive brown, Rec. = 0.5 ft, (FILL)		1	0-15- 9-11					43 - 222/2/2222	No recovery, Rec. = 0.0 ft, (GLACIAL TILL)		/		50/2"		
			(24)												
GrSiSa, olive brown, Rec. = 1.25 ft, (FILL)		1	2-5-4- 7												
			(9)												
$\checkmark$ $\checkmark$ $\checkmark$ GrSiSa, olive brown, Rec. = 1.08 ft, (FILL) $\neg$ $\checkmark$ $\checkmark$ $\checkmark$			5-11-					50	Roller bit refusal at 50 feet. Rock core at 50	feet.					
× × ×			(22)						50.0 ft - 55.0 ft, Hard, slightly weathered, pa horizontal to moderately dipping fractures, c	le green-whi	te, calc-silicate GNEISS,	97(57)			
$\downarrow_{\neq} \neq_{\neq}$ GrSiSa, slight oxidation, olive brown, Rec. = 1.1	7 ft, (FILL)		1-12- 8-10												
* * *			(30)						PILE TIP ELEVATION	<u> </u>					
$\checkmark$ $\checkmark$ $\checkmark$ $\checkmark$ GrSiSa, olive brown, Rec. = 1.92 ft, (FILL) $\checkmark$ $\checkmark$ $\checkmark$			4-20- 10-5												
× × ×			(30)					55 -							
$\prec \prec \prec$ A-2-4, GrSiSa, olive brown, Rec. = 1.08 ft, (FILL	)	5	-10-6- 6	12 2	4.4 41	1.0 3	4.6		55.0 ft - 60.0 ft, Hard, highly weathered, pale moderately dipping fractures, very close spa		e, calc-silicate GNEISS,	88(43)			
			(16)					∞		oling. NA					
$\begin{bmatrix} 7 & 7 & 7 \\ 7 & 7 & 7 \end{bmatrix}$ GrSiSa, olive brown, Rec. = 1.67 ft, (FILL)			0-11- 7-8												
* * *			(18)												
A-4, SiSa, olive brown, Rec. = 1.17 ft, (FILL) - $        -$		~   ^{1.}	-1-1-1 (2)	32   1	3.3 51	1.2 3	5.6								
									Hole stopped	d @ 60.0 ft					
$\begin{bmatrix} \\ \end{bmatrix}$ A-4, SaSi, black to dark brown, Rec. = 1.0 ft, or	ganic	8	-8-2-7 (10)	42   1	5.1 39	9.2 4	5.7	- /ERM							
		_													
								-010(							
		-	5 Q 4			_		65 -							
A-2-4, SiGrSa, gray-brown, Rec. = 0.67 ft, (GLA	GIAL TILL)	4	6-50	11 3	4.9 38	o./ 2	.0.4								
		-	(80)					- 1 SEARS							
								J118511							
<ol> <li>Stratification lines represent approximate boundary between material types. Transition may be gradual.</li> <li>N Values have not been corrected for hammer energy. C_F is the hammer energy correction factor. C_F is a</li> </ol>	a astimated value			ller				C 1. Stratification	lines represent approximate boundary between material types. Transition may be grad re not been corrected for hammer energy. C _F is the hammer energy correction factor.	ual.				<b>Tie</b> r	



	project name: SEARSBURG	
	project number: BF 010-1(50)	
2	FILE NAME: zI3b332bor_info.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING BORING LOGS (4 OF 4)	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 18 OF 49





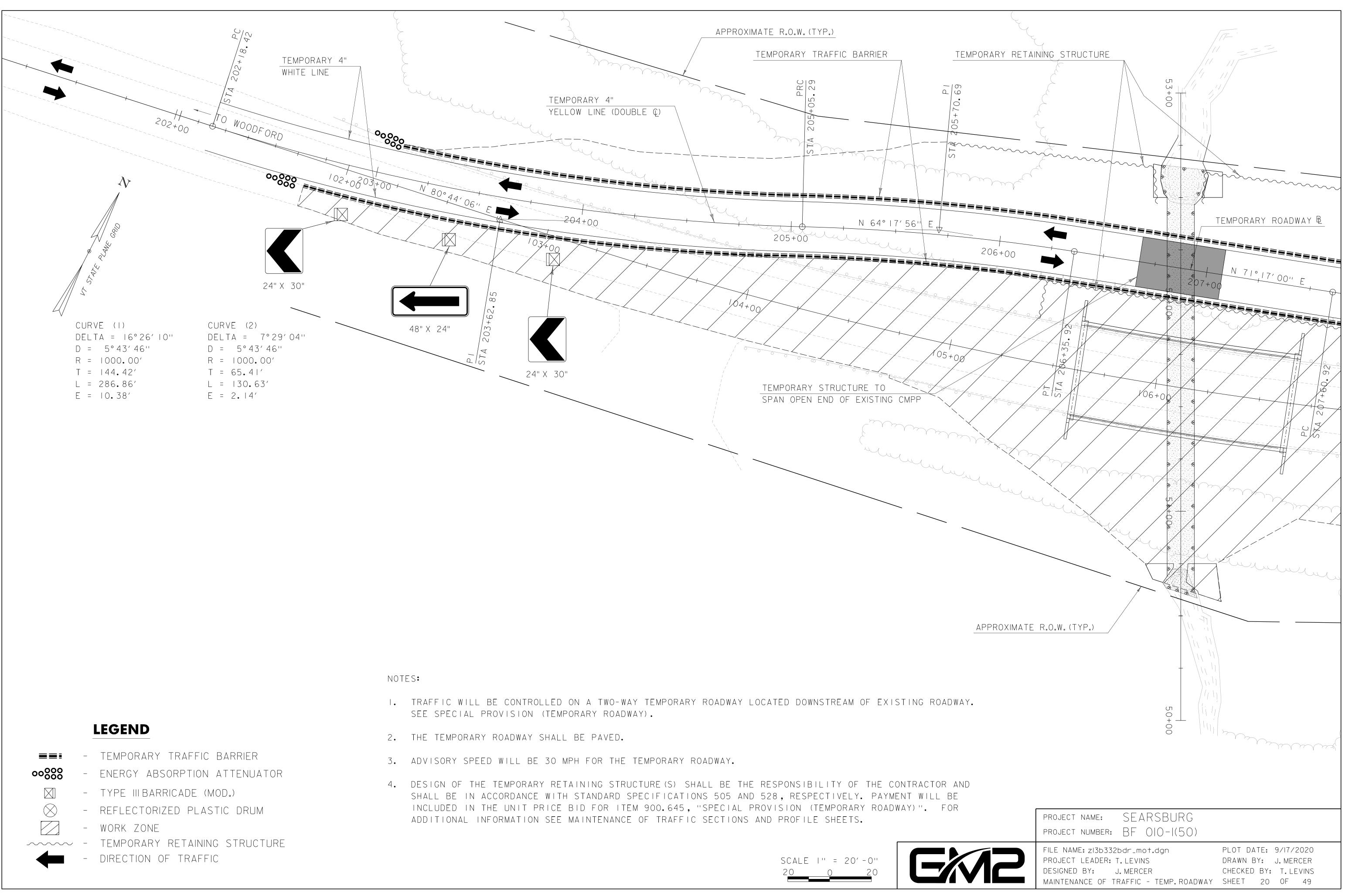
SCALE IN FEET

B VT	9
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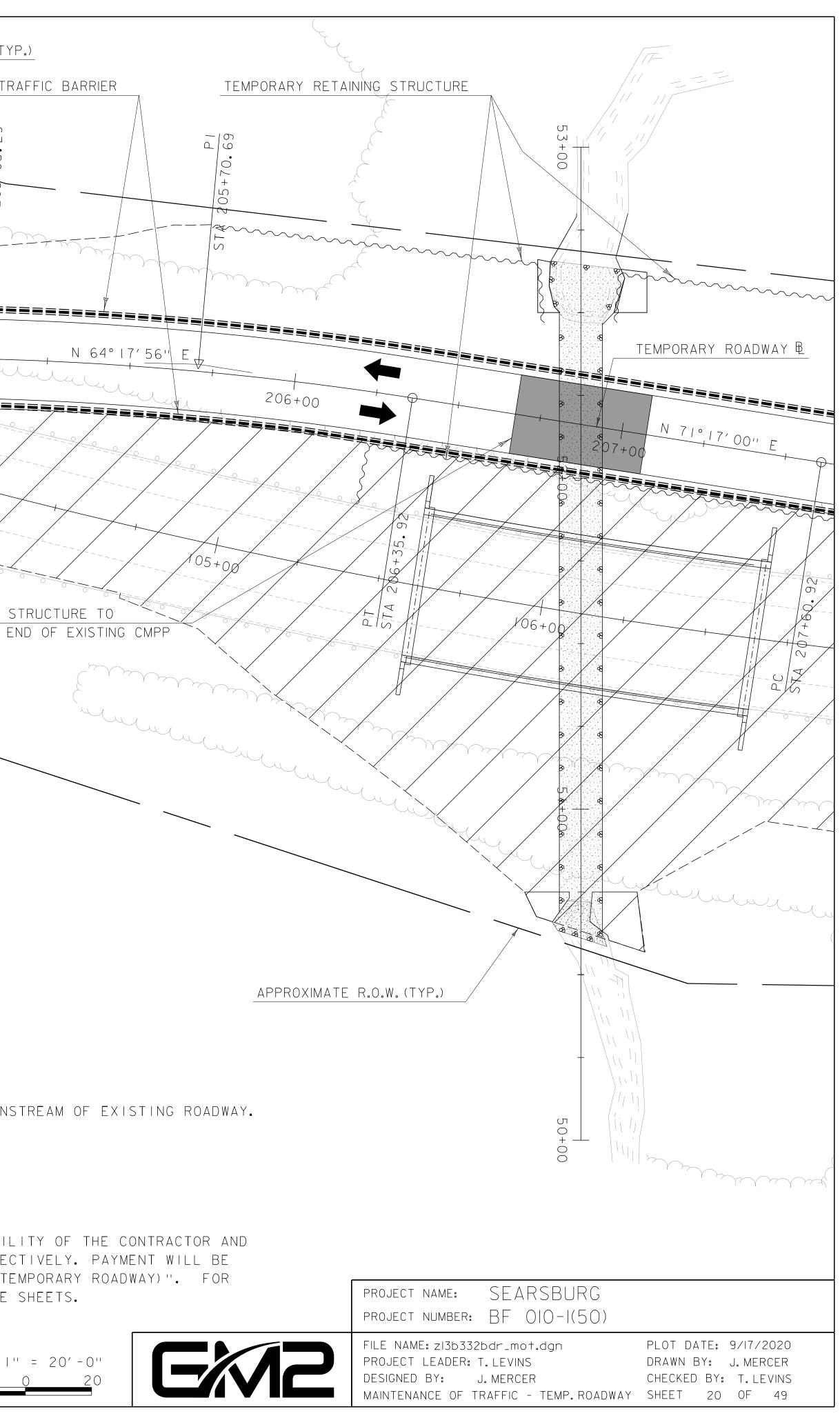
NOTE: FOR ADDITIONAL INFORMATION SEE MAINTENANCE OF TRAFFIC PLANS AND PROFILE SHEETS.

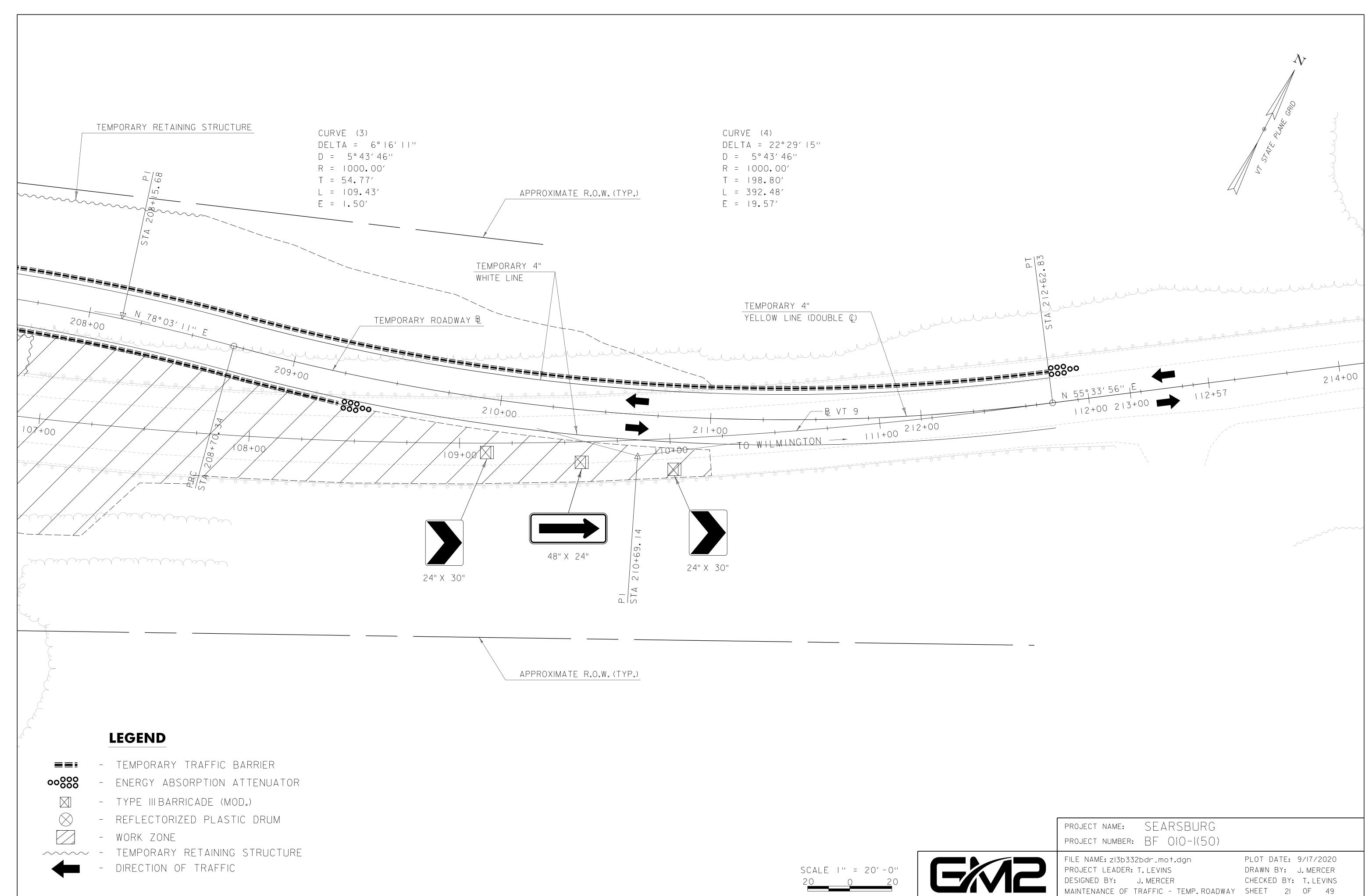
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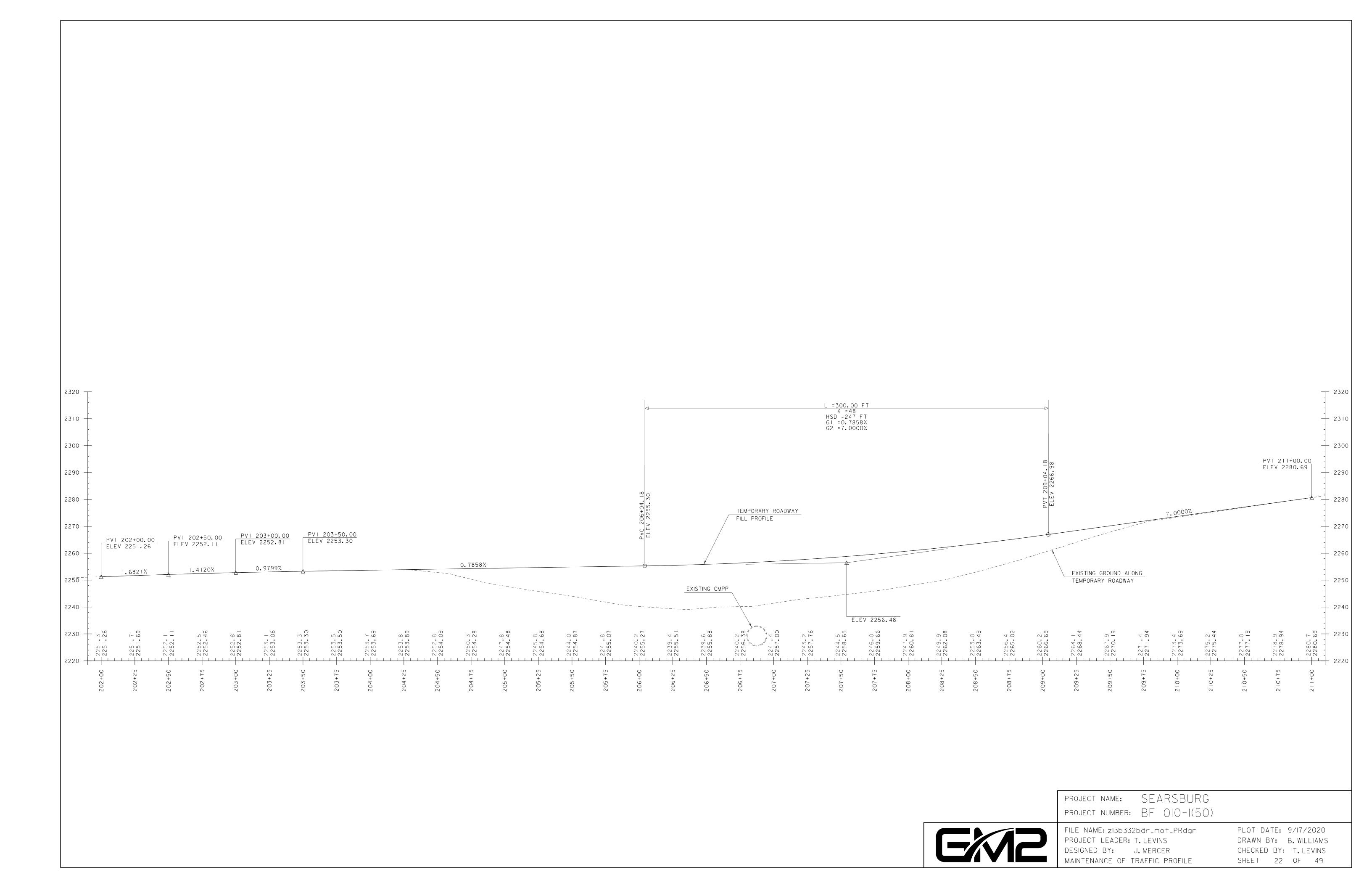
	project name: SEARSBURG	
	project number: BF 010-1(50)	
2	FILE NAME: zI3b332bdr_mot_CON.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: J.MERCER MAINTENANCE OF TRAFFIC SECTIONS	PLOT DATE: 9/17/2020 DRAWN BY: J.MERCER CHECKED BY: T.LEVINS SHEET 19 OF 49

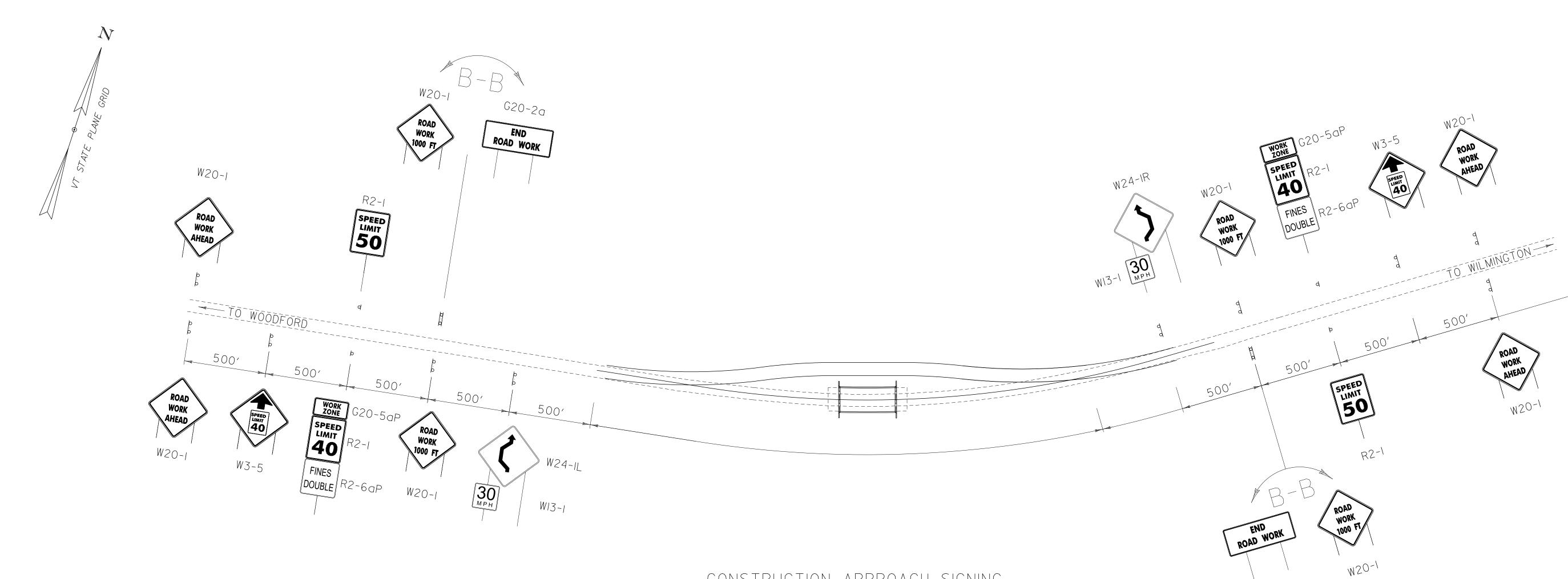


			.	TRAFFIC WIL SEE SPECIAL
	-	LEGEND	2.	THE TEMPORA
	_	TEMPORARY TRAFFIC BARRIER	3.	ADVISORY SF
00000	_	ENERGY ABSORPTION ATTENUATOR		
$\boxtimes$	_	TYPE III BARRICADE (MOD.)	4.	DESIGN OF T Shall BE IN
$\bigotimes$	_	REFLECTORIZED PLASTIC DRUM		INCLUDED IN
	_	WORK ZONE		ADDITIONAL
	_	TEMPORARY RETAINING STRUCTURE		
	_	DIRECTION OF TRAFFIC		









SIGN #	DESCRIPTION	SIZE	QTY	SUPPORT
G20-2a	END ROAD WORK	48×24	2	4 - POSTS
W20-1	ROAD WORK 1000 FT	48×48	2	(2/SIGN ASSEMBLY)
20-5a (P)	WORK ZONE	24×18	2	
R2-1	SPEED LIMIT 40	24×30	2	2 - POSTS (I/SIGN ASSEMBLY)
2-6a (P)	FINES DOUBLE	24×24	2	
R2-1	SPEED LIMIT 50	24×30	2	2 - POSTS (I/SIGN)
W3-5	SPEED LIMIT 40 (SPEED REDUCTION)	48×48	2	4 - POSTS (2/SIGN)
W20-1	ROAD WORK AHEAD	48×48	4	8 - POSTS (2/SIGN)
W20-1	ROAD WORK 1000 FT	48×48	2	4 - POSTS (2/SIGN)
W24-IL	DOUBLE REVERSE CURVE (ILANE)	48×48	I	2 - POSTS (2/SIGN ASSEMBLY)
WI3-I	30 MPH	24×24		
W24-1R	DOUBLE REVERSE CURVE (ILANE)	48×48	I	2 - POSTS (2/SIGN ASSEMBLY)
WI3-I	30 MPH	24×24		AUDENDET

## <u>CONSTRUCTION APPROACH SIGNING</u> NOT TO SCALE

QUARE SIGN POSTS 28 28 POST ANCHORS

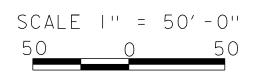
NING NOTES: INSTALL SIGNS WITH THE FLOW OF TRAFFIC.

ADJUST SIGN SPACINGS TO ACCOMMODATE EXISTING SIGNS OR OBSTRUCTIONS - TRIM BRANCHES AS NECESSARY.

AFTER SIGNS ARE INSTALLED, VERIFY THAT: - DRIVER CAN SEE ALL DEVICES CLEARLY; - DRIVER KNOWS WHAT TO DO AND WHERE TO GO; - DRIVER HAS TIME/DISTANCE TO SLOW DOWN.

COVER CONTRADICTORY EXISTING SIGNING.

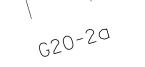
CONSTRUCTION NOTE: I. PAYMENT FOR CONSTRUCTION SIGNING, AND ITS MAINTENANCE AND REMOVAL, WILL BE INCLUDED FOR PAYMENT UNDER CONTRACT ITEM 641.10 TRAFFIC CONTROL.

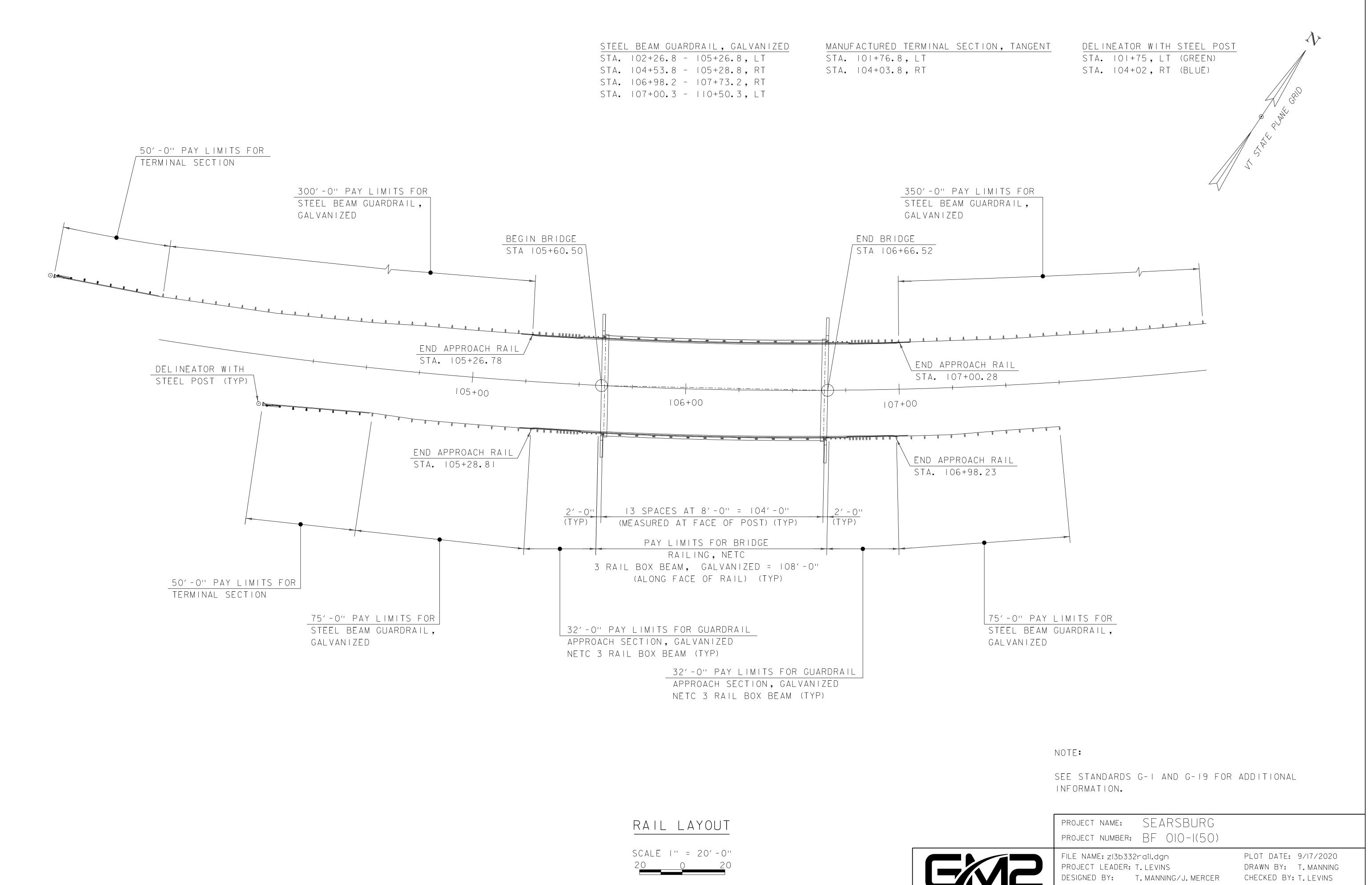




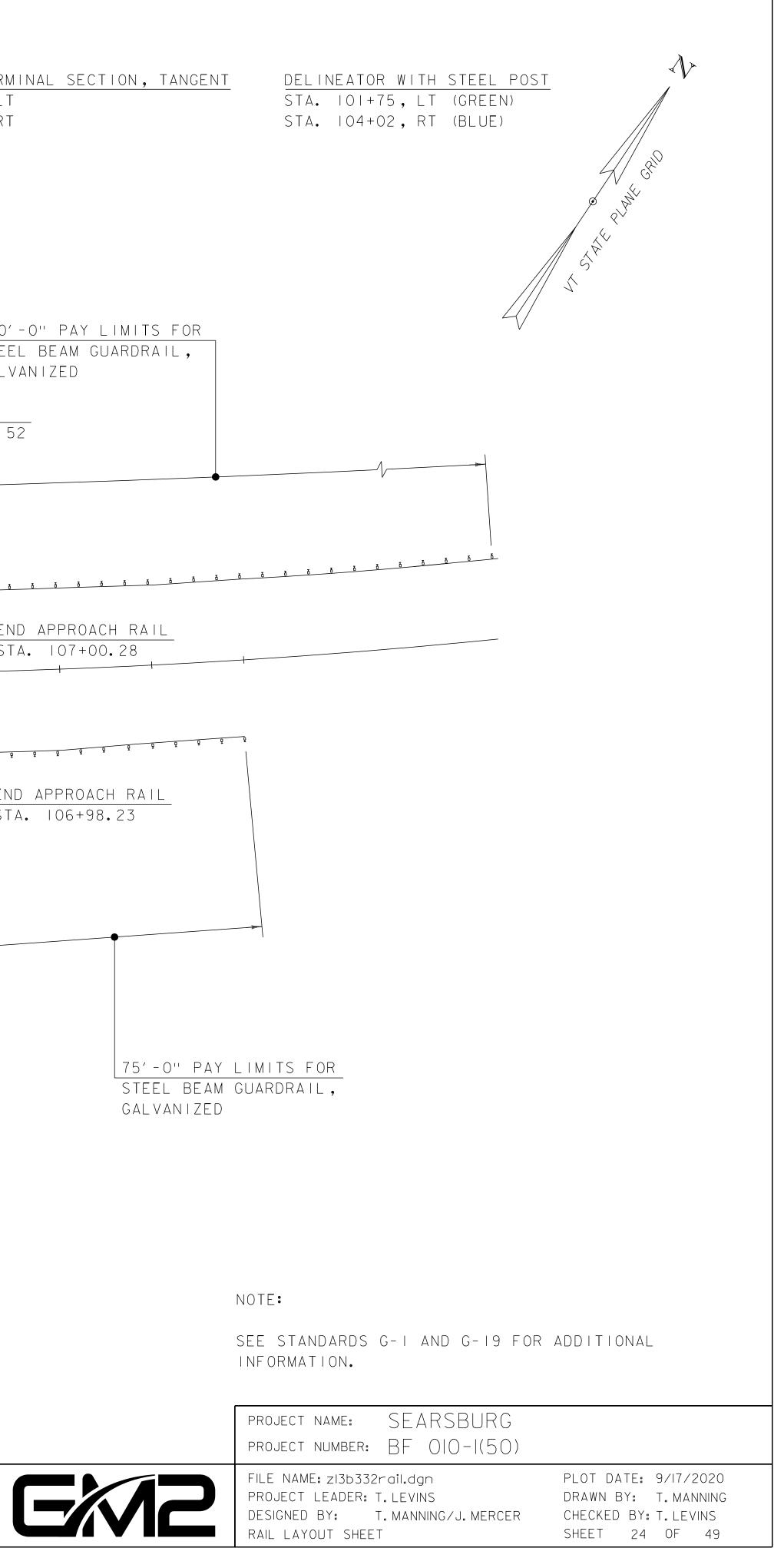
	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332bdr_mot_sgn.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: J.MERCER CONSTRUCTION APPROACH SIGNING	PLOT DATE: 9/17/2020 DRAWN BY: B.WILLIAMS CHECKED BY: T.LEVINS SHEET 23 OF 49

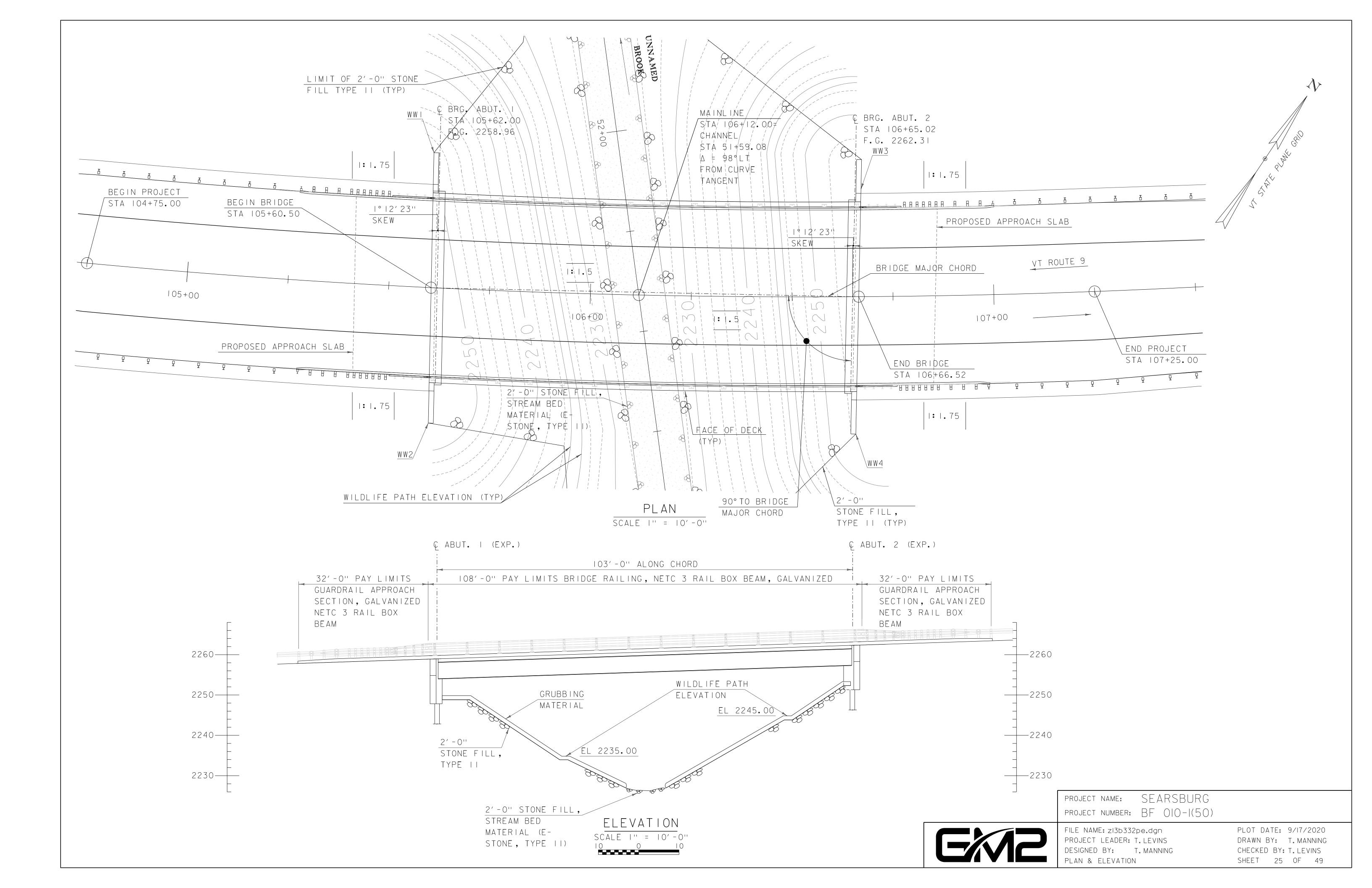
<u>legend</u> . SIGN WITH I POST SIGN WITH 2 POSTS ه.م

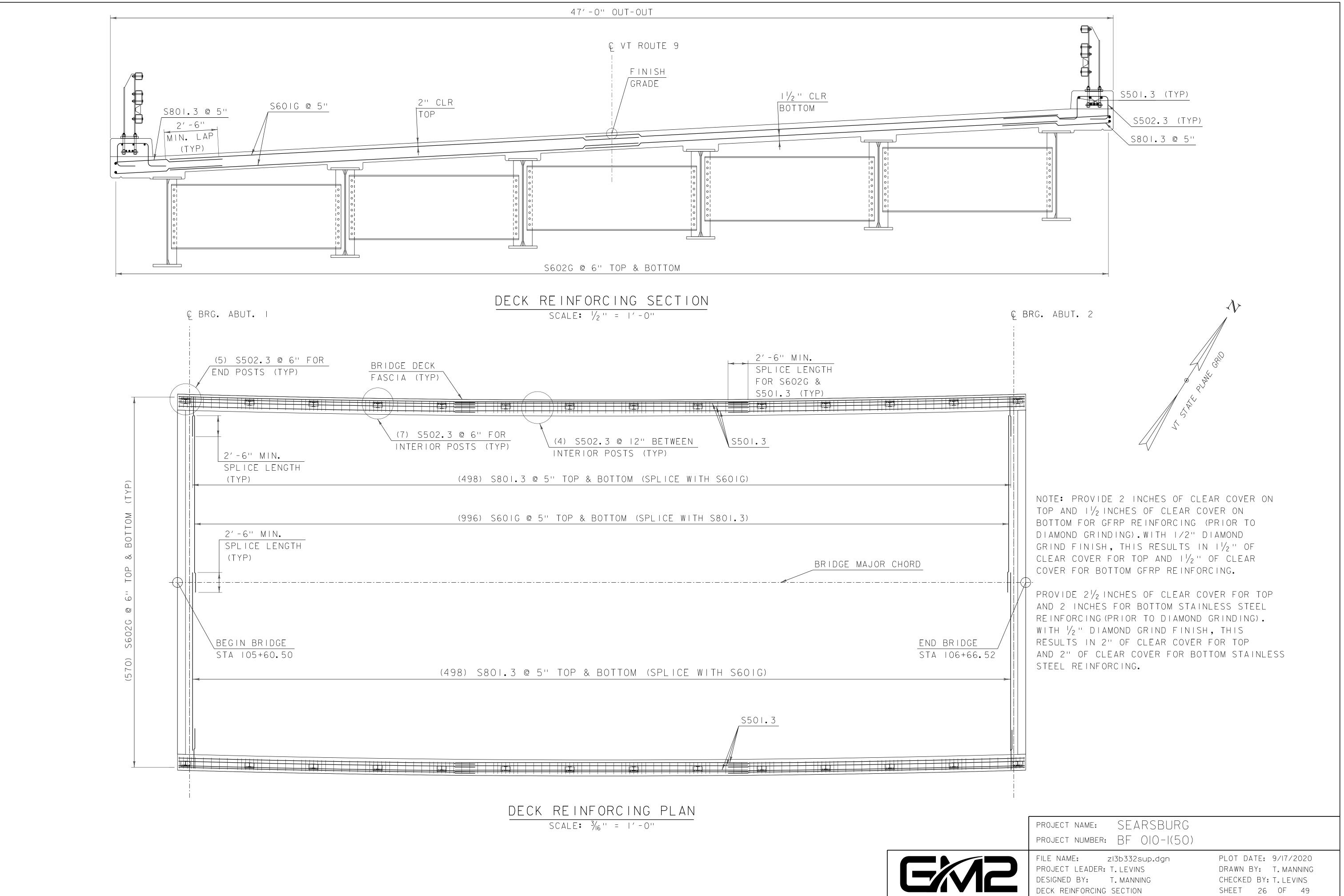




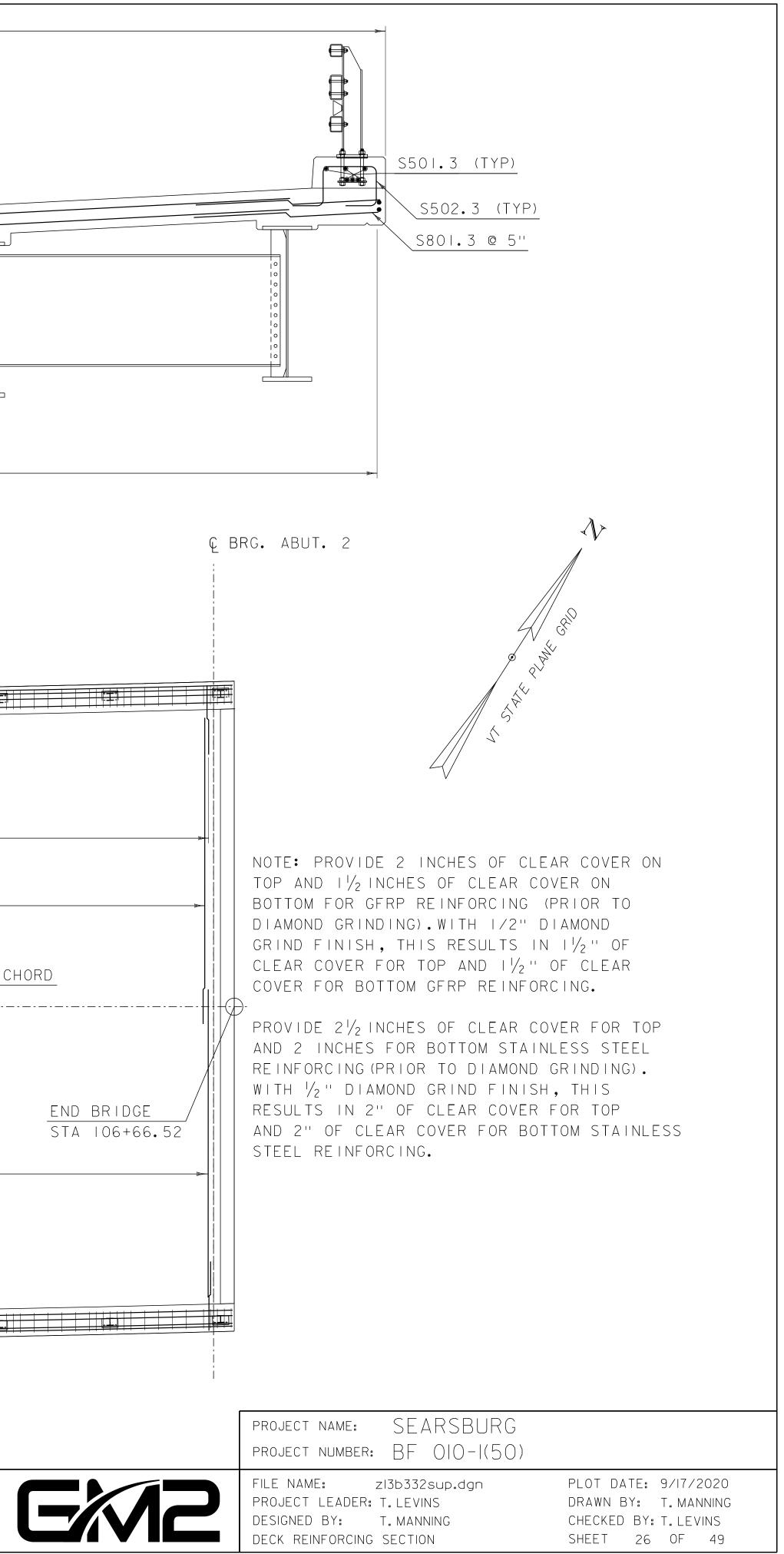
STEEL BEAM GUARDRAIL, GALVANIZED	MANUFACTURED
STA. 102+26.8 - 105+26.8, LT	STA. 101+76.
STA. 104+53.8 - 105+28.8, RT	STA. 104+03.
STA. 106+98.2 - 107+73.2, RT	
STA. 107+00.3 - 110+50.3, LT	

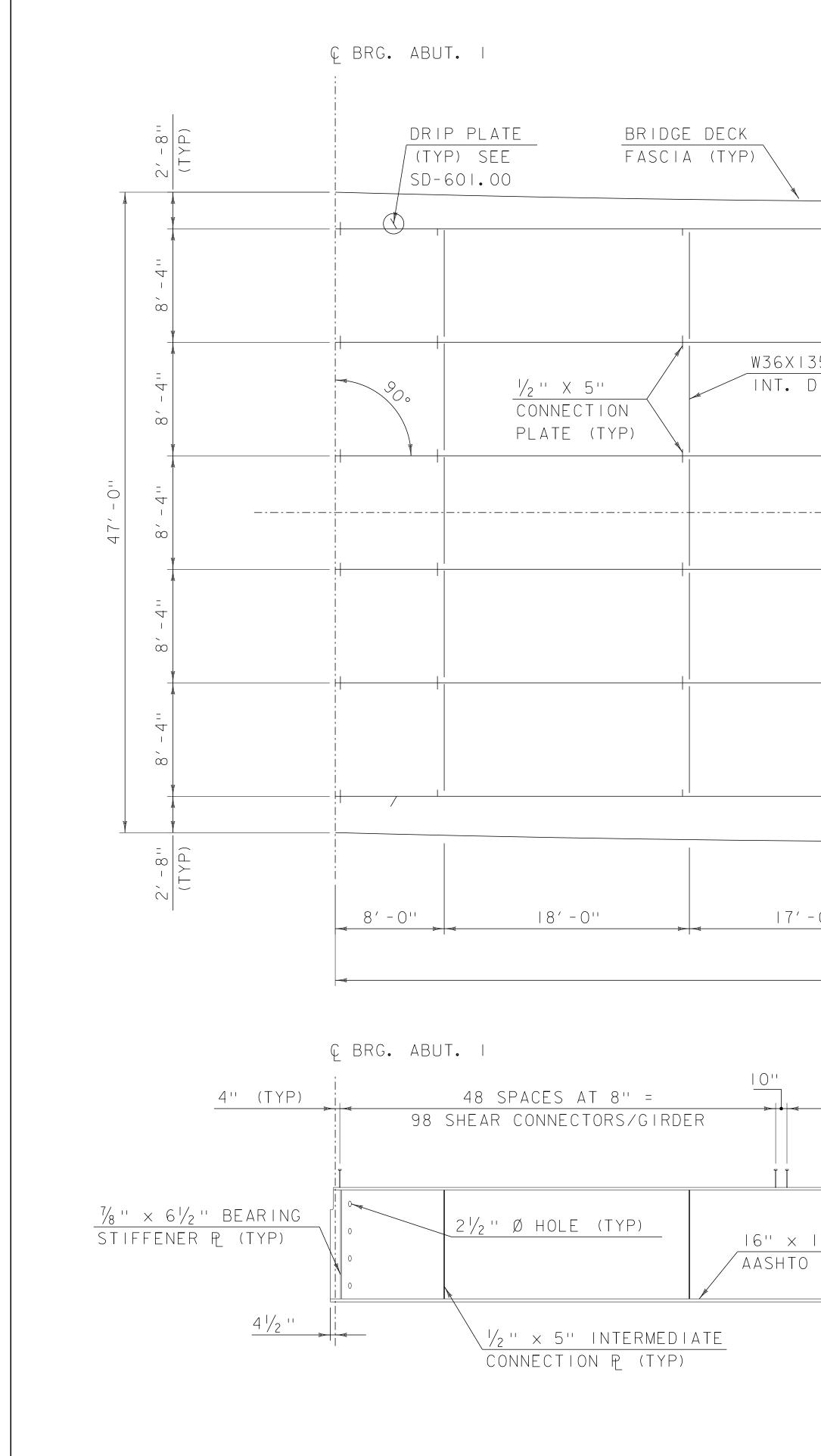




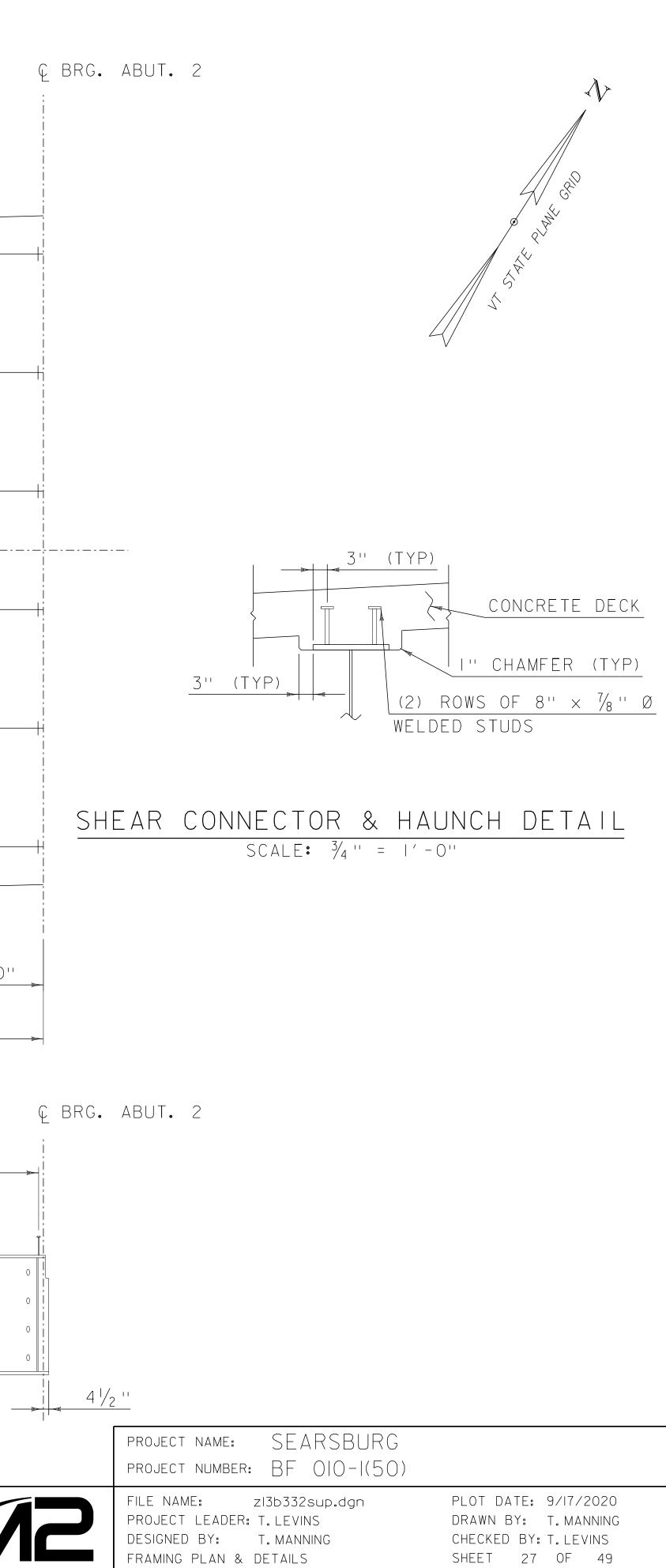


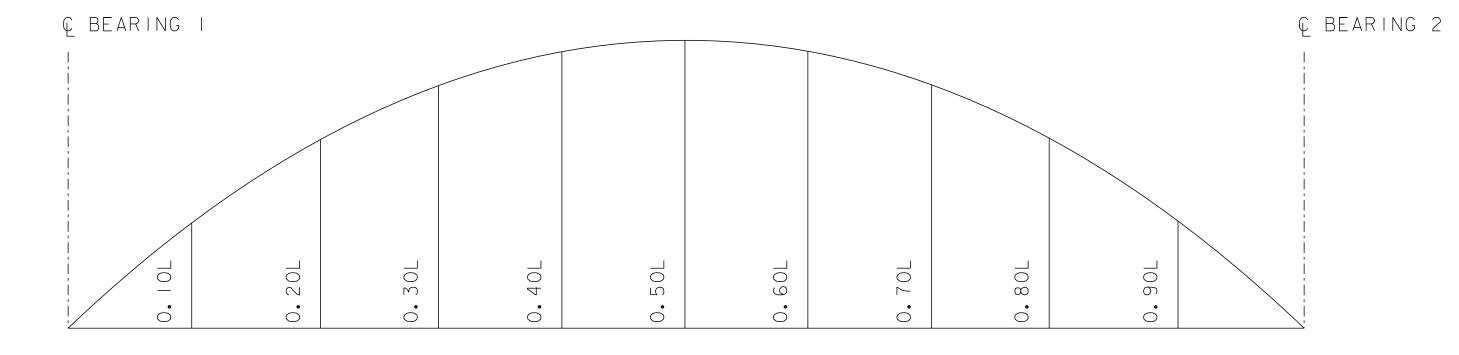




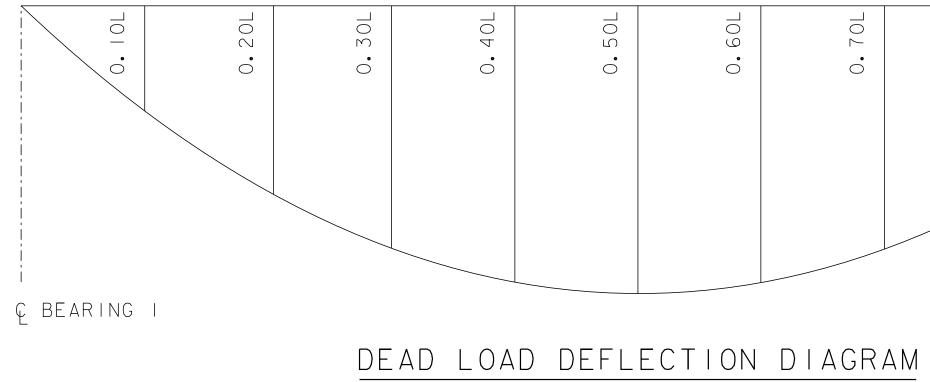


	<u> ' -     ⁵/8</u> ''			
Γ	GIRDERI			T
35 ) I APHRAGM	GIRDER 2			
	GIRDER 3		BRIDGE MAJOR CHORD	
	GIRDER 4		+	
	GIRDER 5		+	   
1	GIRDER 6			
- () ' '	$\frac{3' - 4 \frac{3}{8}}{17' - 0''}$	7 ′ – 0 ''	8′ - 0''	8′-0''
₽	u ç bearing i to ç bea	≪}		
	ECK FRAMING PLA scale: ³ / ₁₆ " = 1'-0" 44 spaces at 10" = shear connectors/gird		48 SPACES AT 8'' = 98 SHEAR CONNECTORS/GI	 RDER
	TTOM FLANGE De 50W (CVN)			0 0 0 0
HORIZ	RDER ELEVATION Contal scale: ³ / ₁₆ '' = 1' cal scale: ³ / ₈ '' = 1'-0'	-0'' GRADE 5		









SEE TABLES BELOW

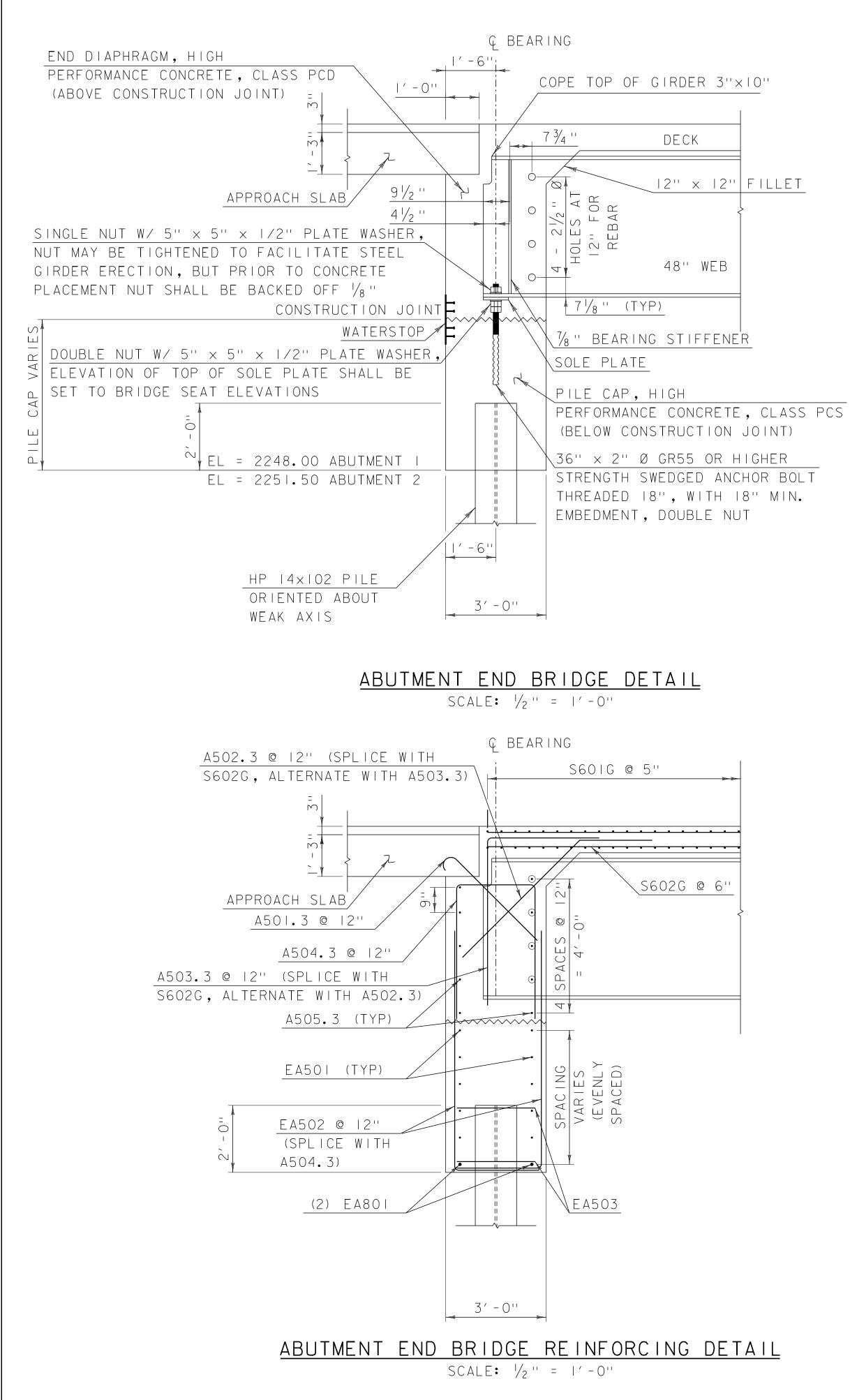
INTERIOR GIRDER (G2-G5) CAMBER TABLE AT 0.10L POINTS (INCHES)											
POINT ON GIRDER	0.00L	0.10L	0.20L	0.30L	0.40L	0.50L	0.60L	0.70L	0.80L	0.90L	1.00L
STEEL DL	0.000	0.287	0.542	0.742	0.869	0.913	0.869	0.742	0.542	0.287	0.000
CONCRETE SLAB DL	0.000	0.962	1.819	2.491	2.917	3.063	2.917	2.491	1.819	0.962	0.000
SUPERIMPOSED DL	0.000	0.055	0.105	0.143	0.168	0.176	0.168	0.143	0.105	0.055	0.000
TOTAL CAMBER	0.000	1.304	2.466	3.376	3.954	4.152	3.954	3.376	2.466	1.304	0.000

EXTERIOR GIRDER (G1 & G6) CAMBER TABLE AT 0.10L POINTS (INCHES)											
POINT ON GIRDER	0.00L	0.10L	0.20L	0.30L	0.40L	0.50L	0.60L	0.70L	0.80L	0.90L	1.00L
STEEL DL	0.000	0.250	0.473	0.647	0.758	0.796	0.758	0.647	0.473	0.250	0.000
CONCRETE SLAB DL	0.000	0.864	1.635	2.238	2.622	2.753	2.622	2.238	1.635	0.864	0.000
SUPERIMPOSED DL	0.000	0.057	0.107	0.147	0.172	0.180	0.172	0.147	0.107	0.057	0.000
TOTAL CAMBER	0.000	1.171	2.215	3.032	3.551	3.729	3.551	3.032	2.215	1.171	0.000

0. 60L 0.70L 0.80L 0° 90L Ç BEARING 2

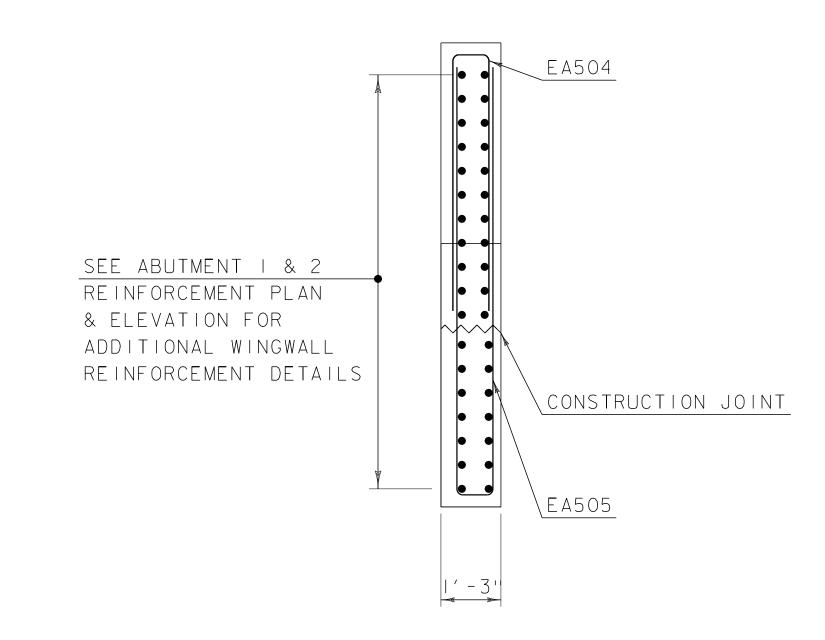


	project name: SEARSBURG	
	project number: BF 010-1(50)	
2	FILE NAME: zI3b332sup.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING CAMBER AND DEFLECTION DETAILS	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 28 OF 49



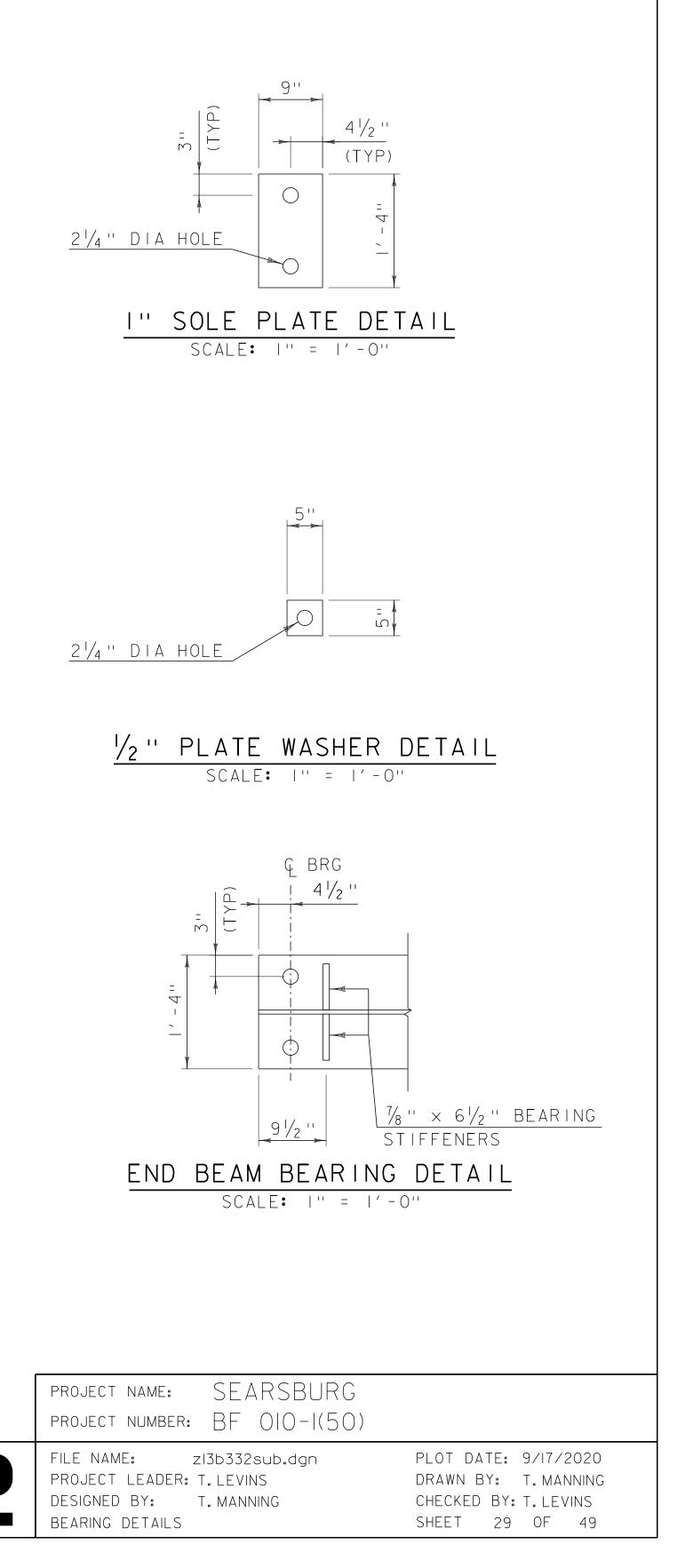
NOTES:

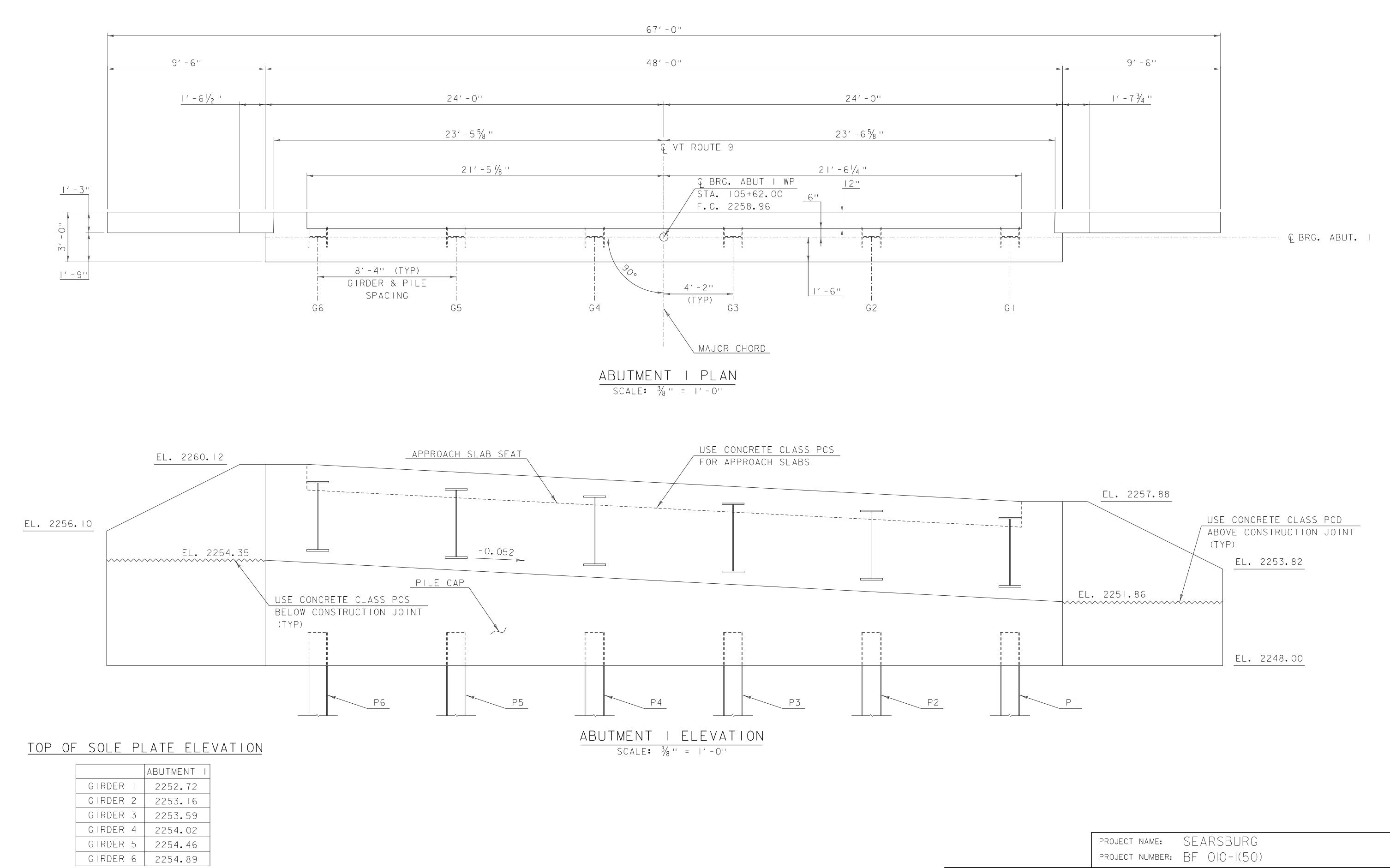
- I. PAYMENT FOR THE SOLE PLATES, ANCHOR BOLTS, WASHERS, AND NUTS SHALL BE INCIDENTAL TO ITEM 506.55, STRUCTURAL STEEL, PLATE GIRDER.
- 2. SUBSTITUTIONS FOR BEARING DEVICE ASSEMBLY COMPONENT, MATERIALS AND SIZES SHALL BE DETAILED ON FABRICATION DRAWINGS. ALL SUBSTITUTIONS SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO FABRICATION AS PER SUBSECTION 506.04.

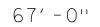




WINGWALL REINFORCING DETAIL SCALE:  $\frac{1}{2}$  " = 1' - 0"





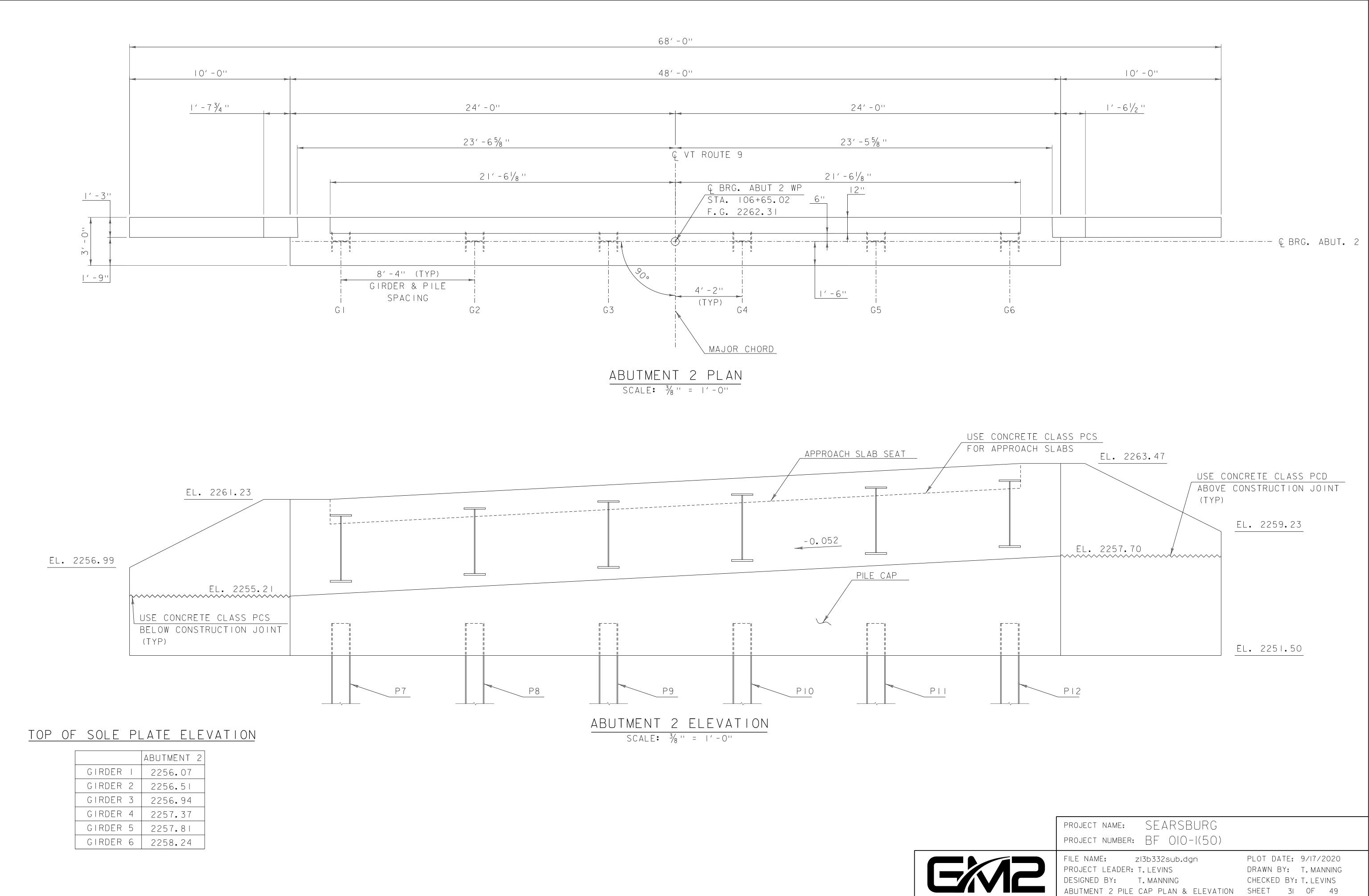




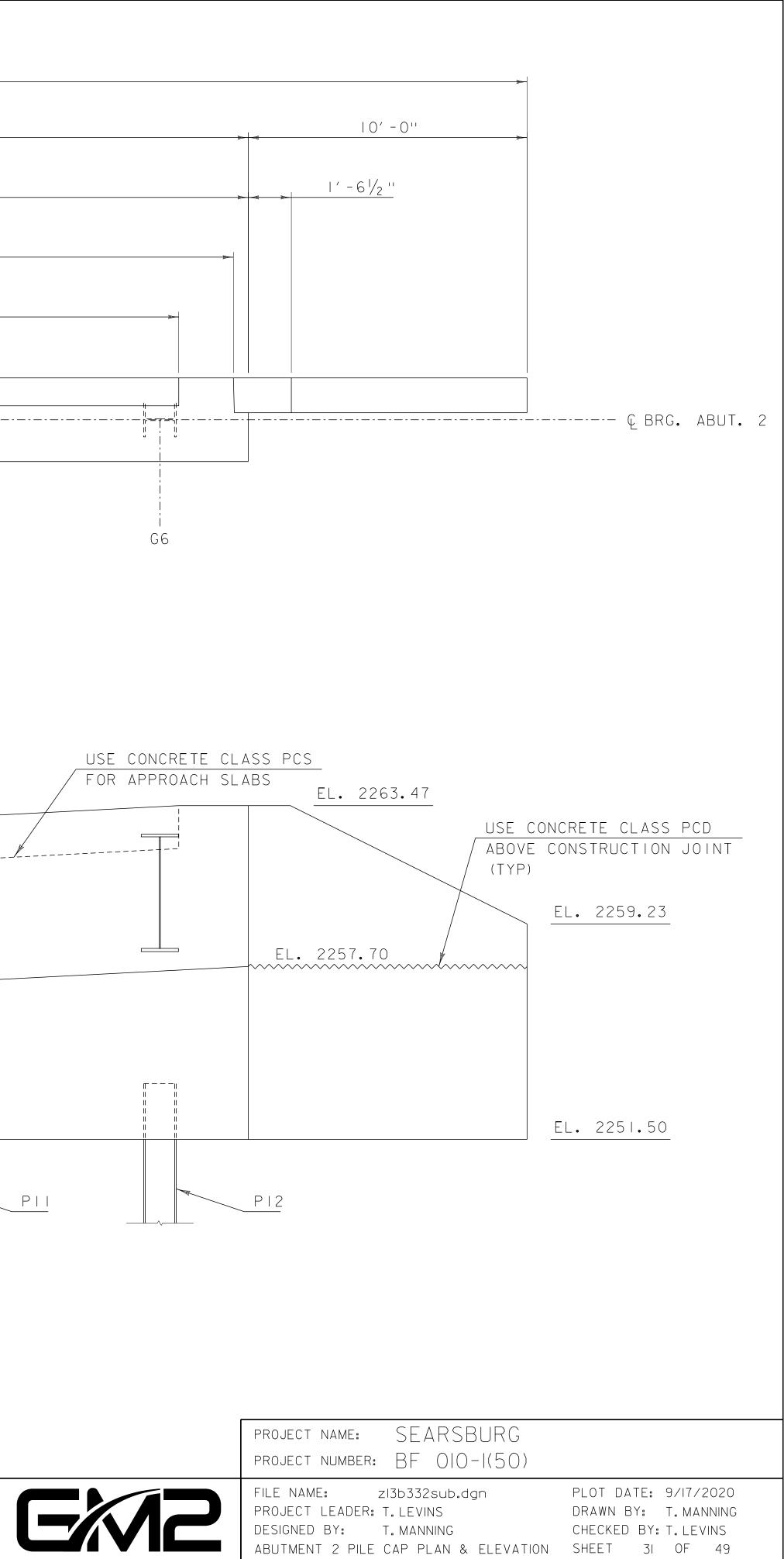


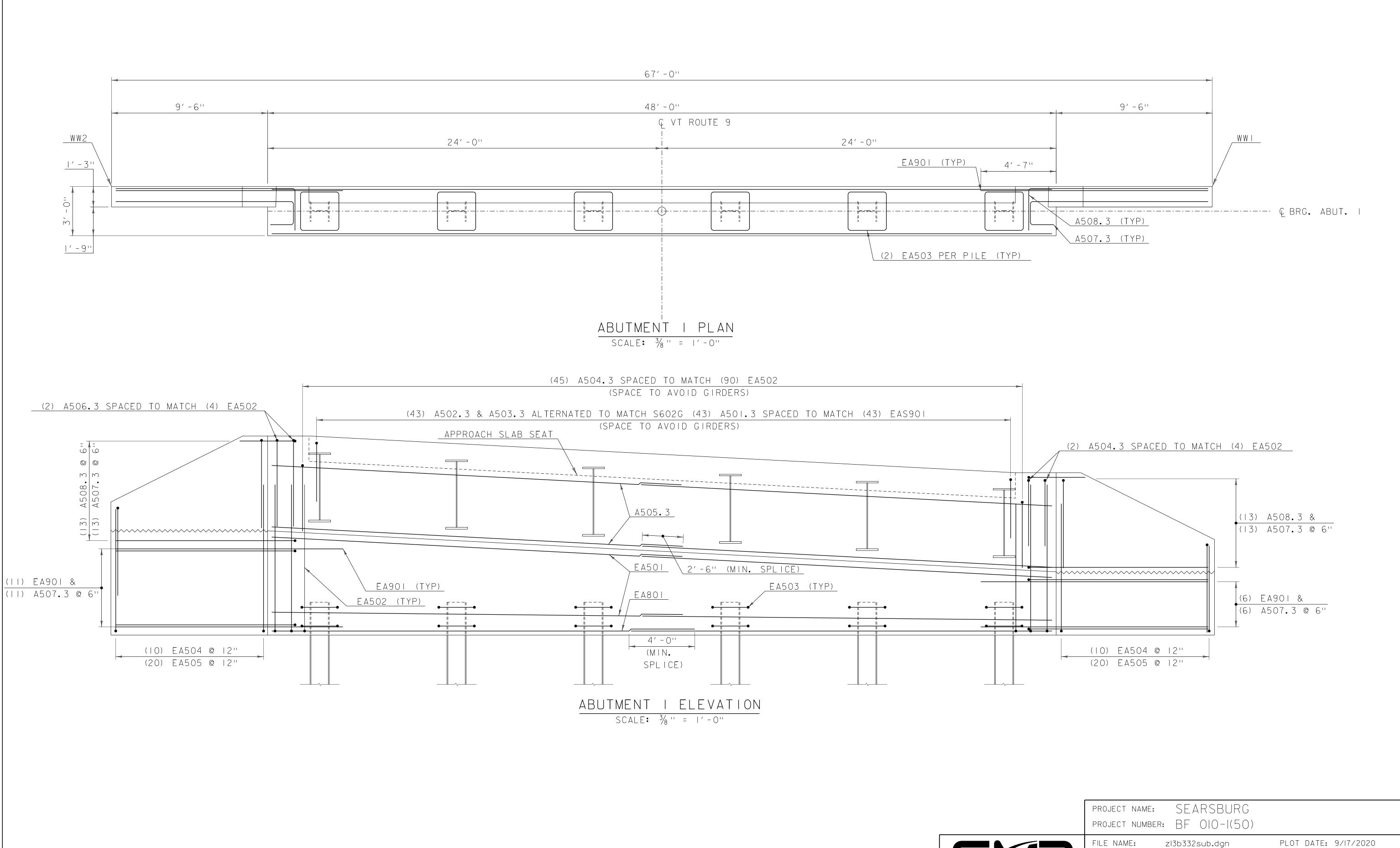
<u> </u>	ΡI	

	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332sub.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING ABUTMENT I PILE CAP PLAN & ELEVATION	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 30 OF 49



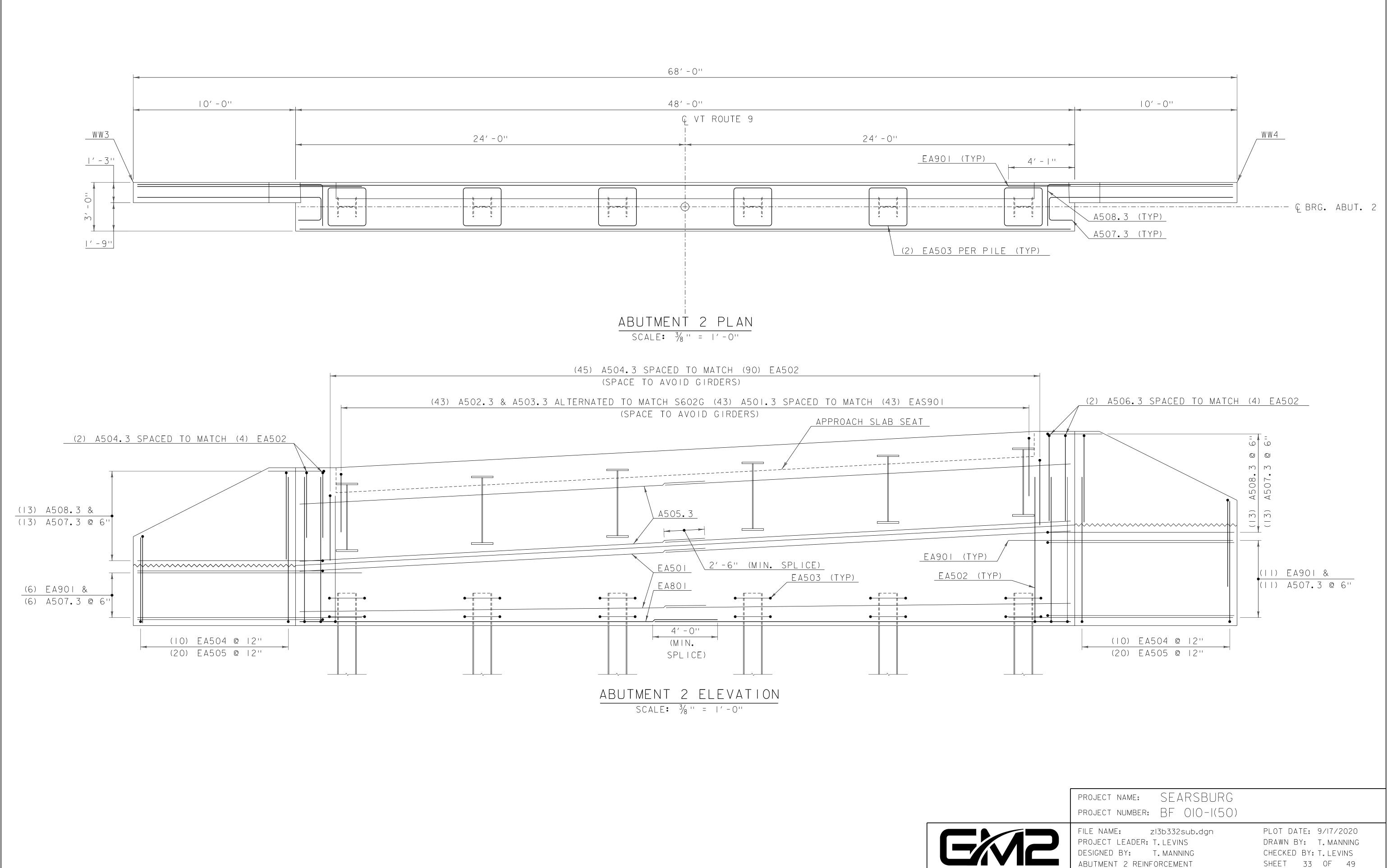
ABUTMENT 2
2256.07
2256.51
2256.94
2257.37
2257.81
2258.24

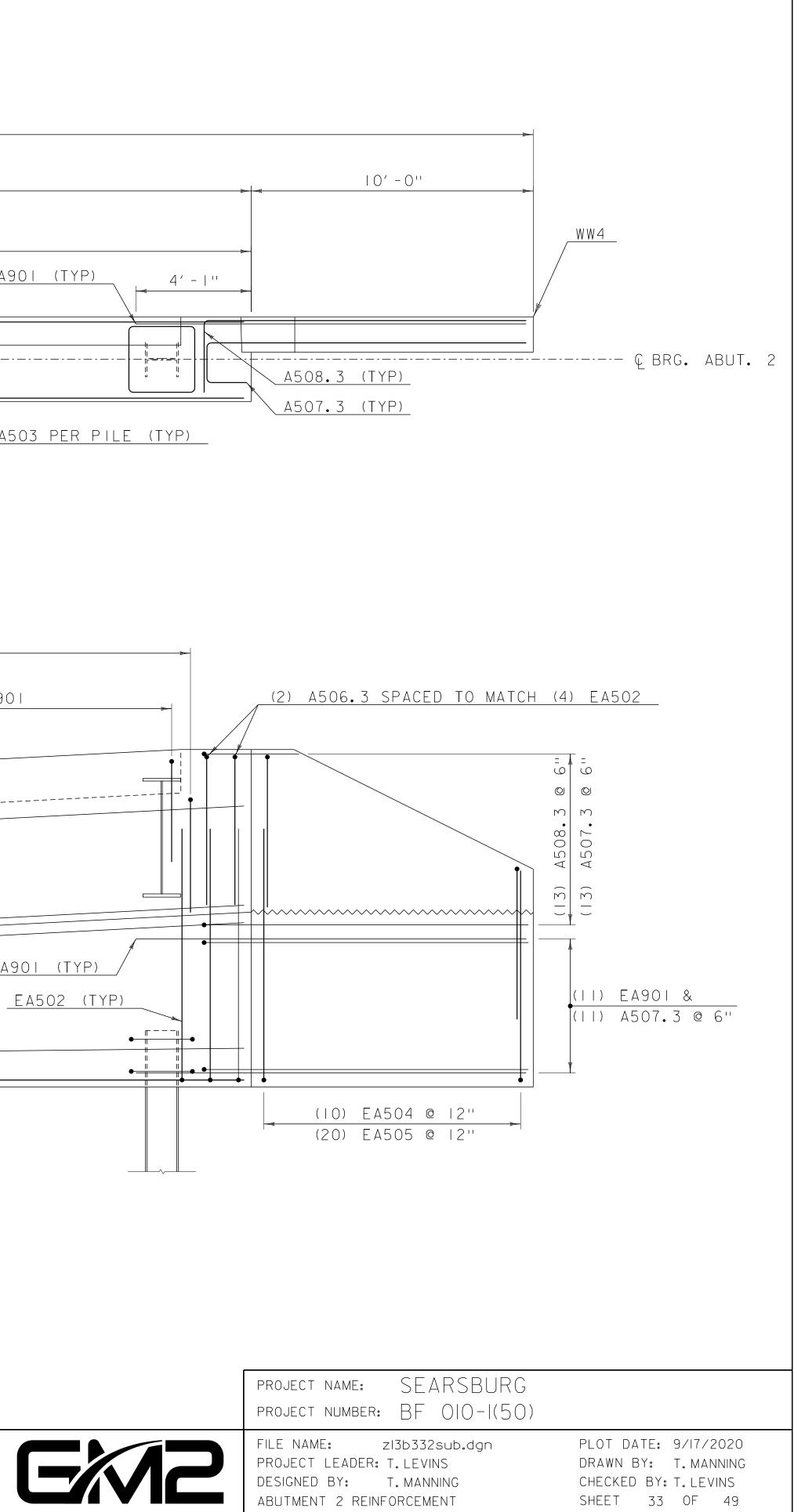


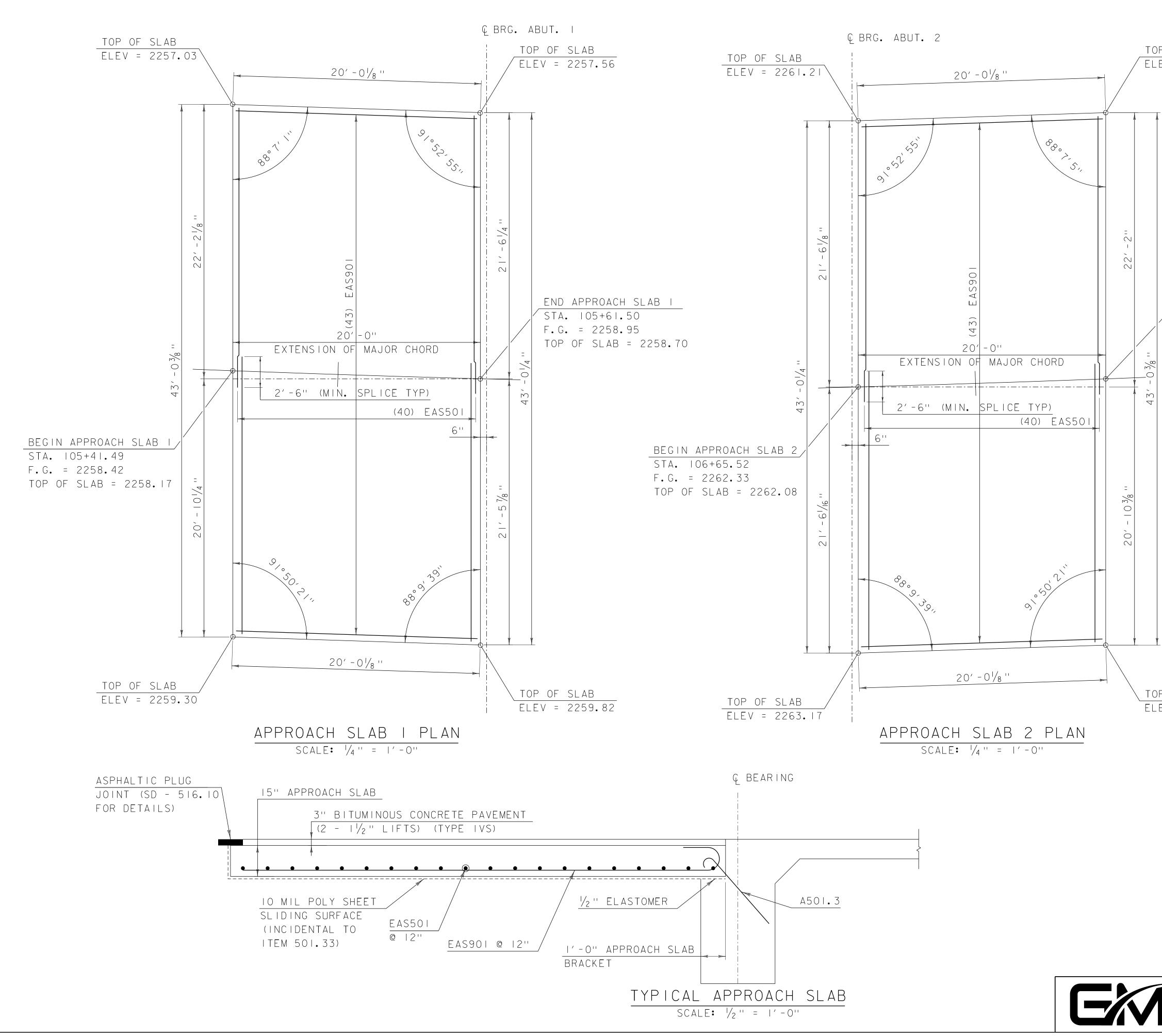




FILE NAME: zI3b332sub.dgn PROJECT LEADER: T.LEVINS	PLOT DATE: 9/17/2020 Drawn By: T. Manning
FRUJECT LEADER: T. LEVINS	DRAWN DIE I. MANNING
DESIGNED BY: T. MANNING	CHECKED BY: T.LEVINS
ABUTMENT I REINFORCEMENT	SHEET 32 OF 49







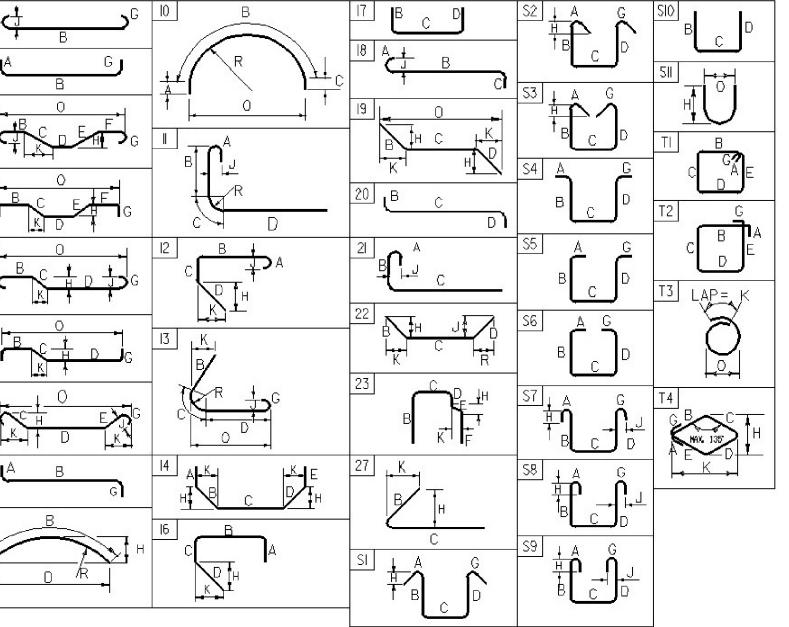
TOP OF SLAB ELEV = 2261.77

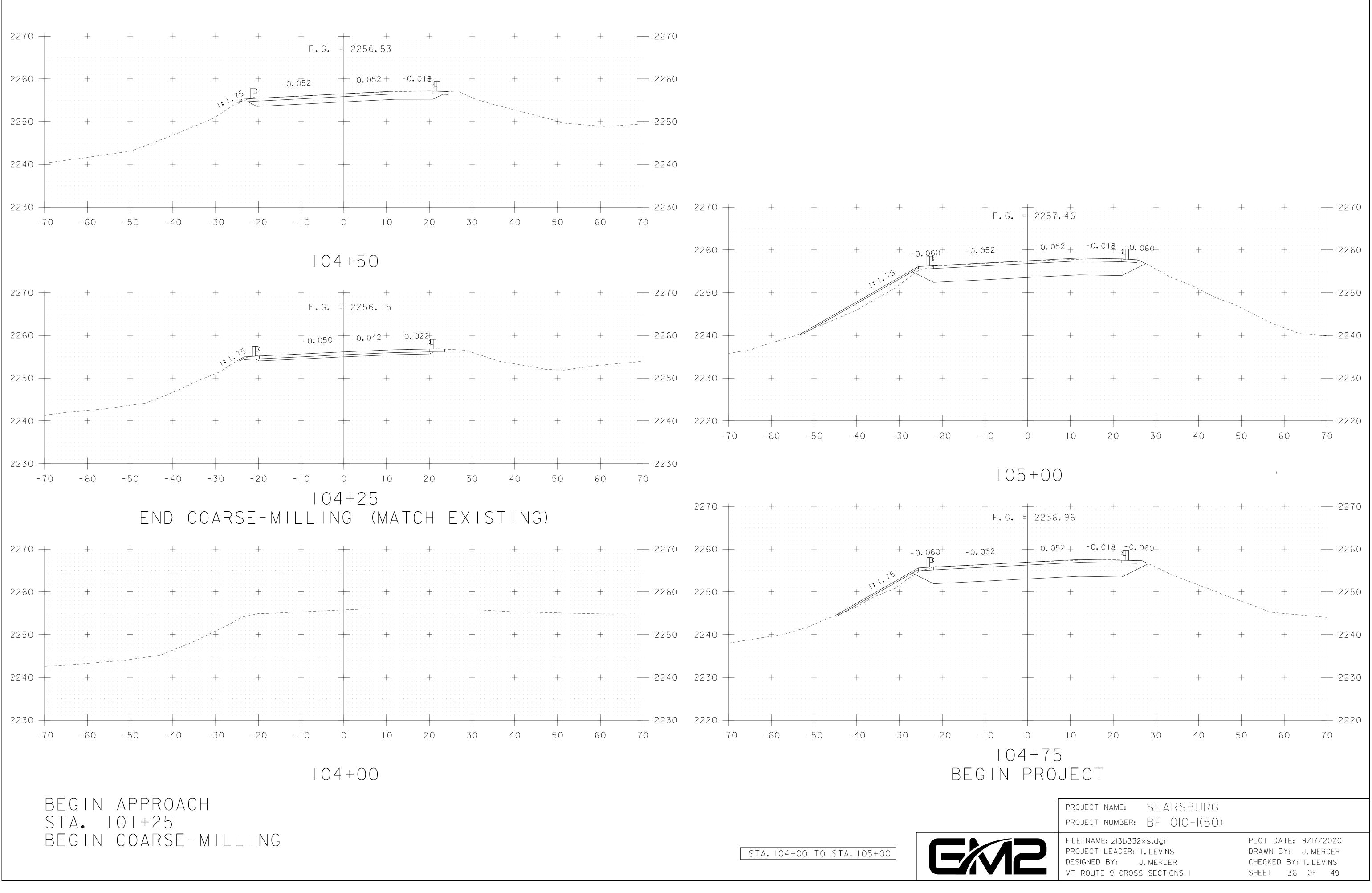
> END APPROACH SLAB 2 STA. 106+85.53 F.G. = 2263.10 TOP OF SLAB = 2262.85

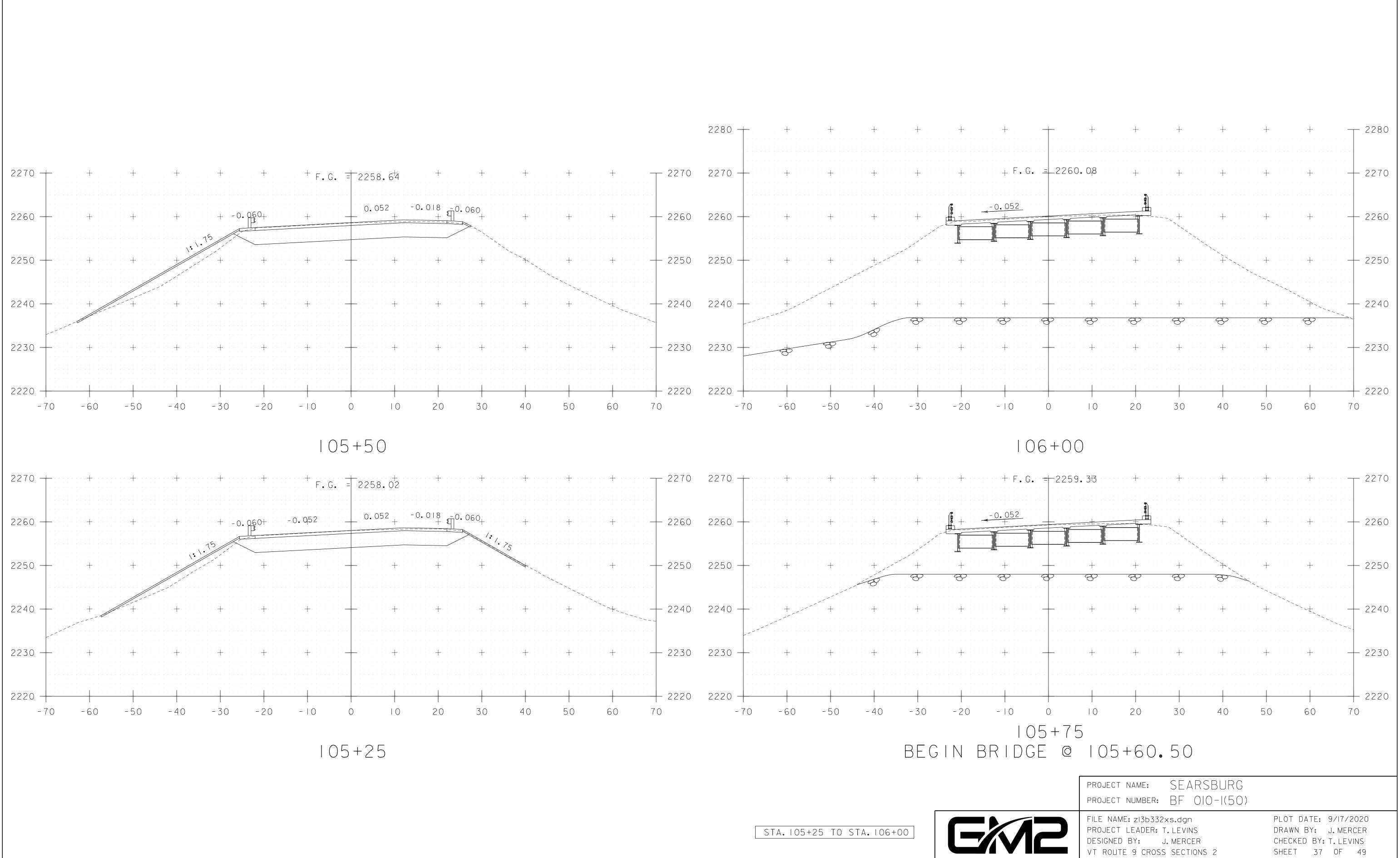
TOP OF SLAB ELEV = 2263.93

	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332sub.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING APPROACH SLAB DETAILS	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY: T.LEVINS SHEET 34 OF 49

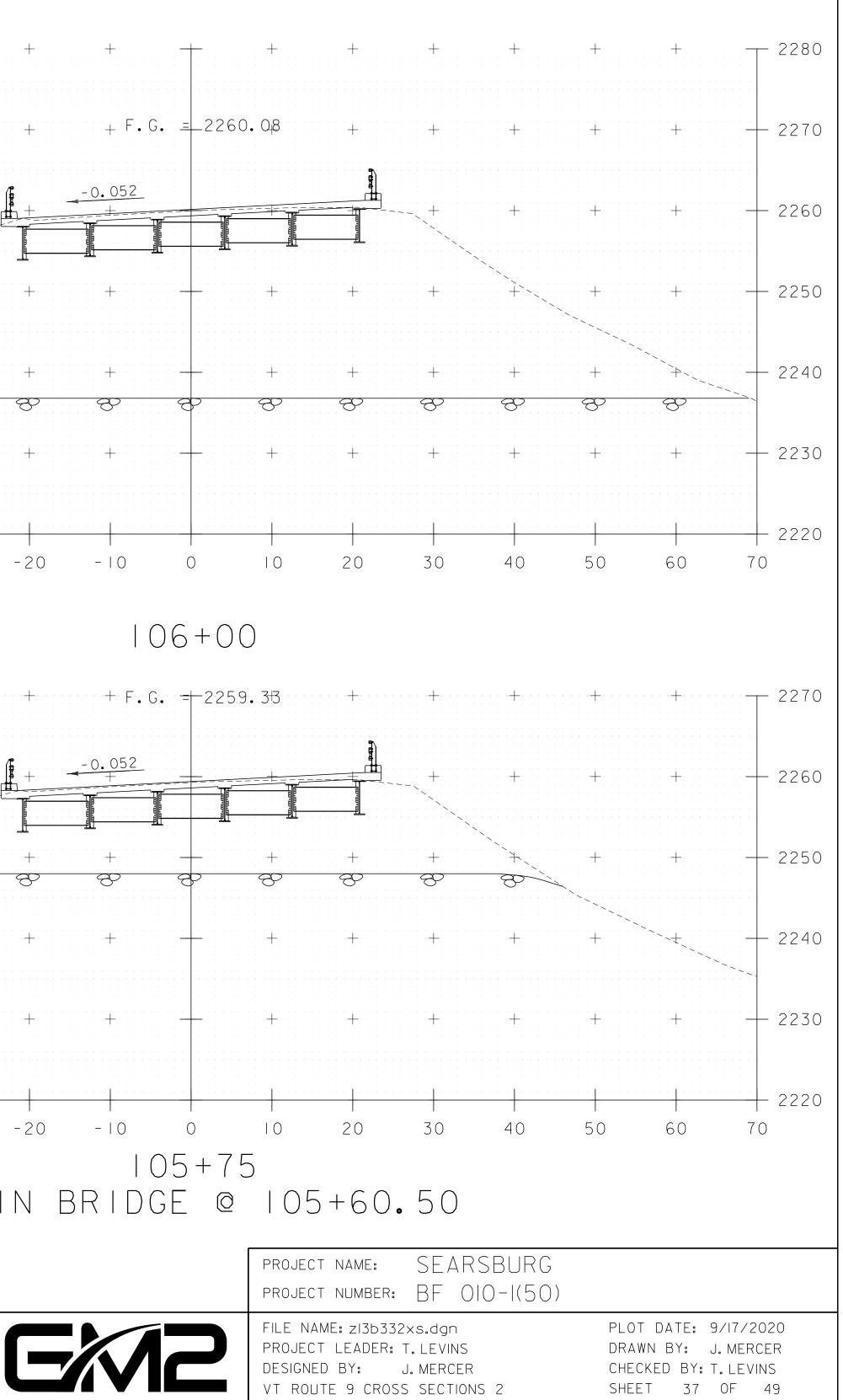
STATE OF VERMONT AGENCY OF TRANSPORTATION	<b>REINFORCING SCHEDULE</b>	
ITEM EACH SIZE LENGTH MARK TYPE A B C D E F G H J K DECK	A     O     ITEM     EACH     SIZE     LENGTH     MARK     TYPE     A     B     C     D     E     F     G     H     J     K     R     O	~ NOTES ~
996       8       5'-       6"       S801.3       STR       Image: STR in the second	Image: Second	<ol> <li>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</li> </ol>
36       5       37'- 2"       S501.3       STR       Image: state of the state of th	Image: Second state of the second s	REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
APPROACH SLAB 1         Image: Constraint of the state of the st		2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS, AND OTHER STANDARD
43       9       21'-       1"       EAS901       1       19'-       6"       1'-       7"       0'-       10"         APPROACH SLAB 2       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Image:	PRACTICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE".
40       5       22'- 7"       EAS501       STR	Image: Second state of the second s	<ol> <li>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".</li> <li>REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.</li> </ol>
ABUTMENT 1       Image: Second s		4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180 DEGREE AND 135 DEGREE HOOKS.
43       5       7'-       1"       A502.3       22       4'-       11"       2'-       2"       3'-       6"       3'-       6"         43       5       8'-       4"       A503.3       17       3'-       4"       5'-       0"       6"       6"       6"       6"         47       5       10'-       6"       A504.3       17       4'-       0"       2'-       6"       4'-       0"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"       6"	Image:	<ol> <li>"J" DIMENSION ON 180 DEGREE HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.</li> </ol>
20       5       25'- 0"       A505.3       STR		6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
▲       26       5       13'- 10"       A508.3       16       2'- 6"       11'- 4"         20       5       25'- 0"       EA501       STR       5       5       11'- 5"       EA502       17       8'- 11"       2'- 6"       5       5       5       5       5       11'- 5"       6"       11"       2'- 6"       11       5       5       11'- 5"       5       5       11'- 5"       5       5       11'- 5"       5       11''       2'- 6"       11       11''       11''       11''       11''       11''       11''       11''       11''       11''       11''       11''       11''       11''       11''       11''       11'''       11''       11'''       11'''       11'''       11'''       11'''       11'''       11'''       11'''       11''''       11''''       11''''       11'''''       11''''       11'''''       11'''''''       11'''''''       11'''''''       11''''''''''       11'''''''''''''''''''''''''''''''''''		
12       5       10'-       0"       EA503       T2       0'-       4"       2'-       4"       2'-       4"       2'-       4"       0'-       4"         20       5       11'-       5"       EA504       17       5'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"       0'-       4"	-       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -         -       -       -       -       -       -       -       -       -       -       -       -       -	
▲       40       5       9'- 8"       EA505       17       8'- 11"       0'- 9"       Image: Constraint of the state of th		7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
ABUTMENT 2       Image: Constraint of the second seco		8. A DENOTES BARS TO BE CUT IN FIELD.
43       5       4'- 2"       A501.3       1       0'- 9"       3'- 5"       0'- 6"         43       5       7'- 1"       A502.3       22       4'- 11"       2'- 2"       3'- 6"       3'- 6"         43       5       8'- 4"       A503.3       17       3'- 4"       5'- 0"       0'- 6"       0'- 6"	Image:	9. * DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
47       5       10'-       6"       A504.3       17       4'-       0"       2'-       6"       4'-       0"         20       5       25'-       0"       A505.3       STR		<ul> <li>10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.</li> <li>11. E IN BAR MARK PREFIX DENOTES EPOXY COATED REINFORCING STEEL.</li> </ul>
▲       43       5       14'-       4''       A507.3       16       1'-       6"       11'-       4"       6"       11'-       4"         ▲       26       5       13'-       10"       A508.3       16       2'-       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       4"       6"       11'-       6"       11'-       4"       6"       11'-       4"       6"       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'-       11'- <td< td=""><td></td><td></td></td<>		
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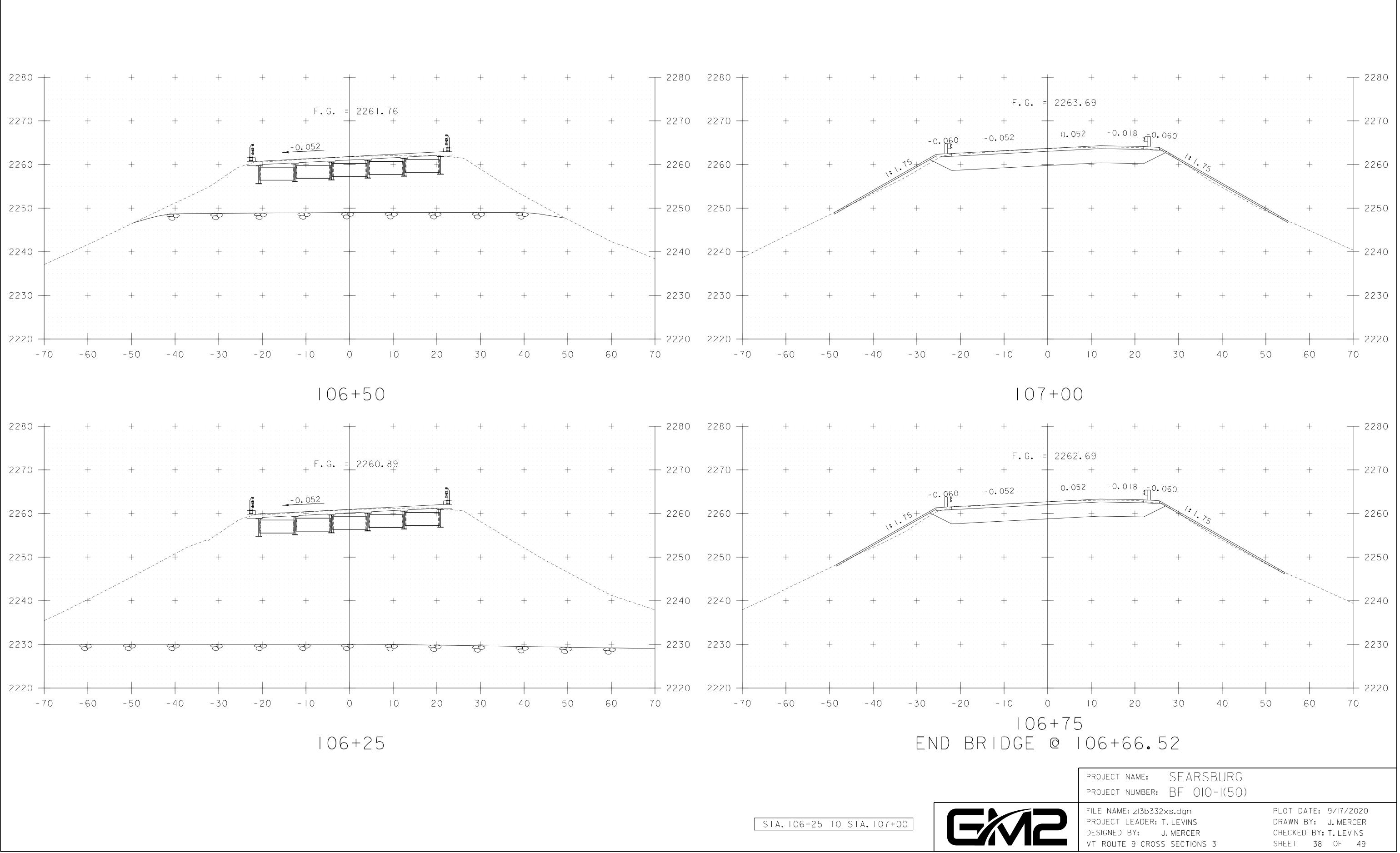




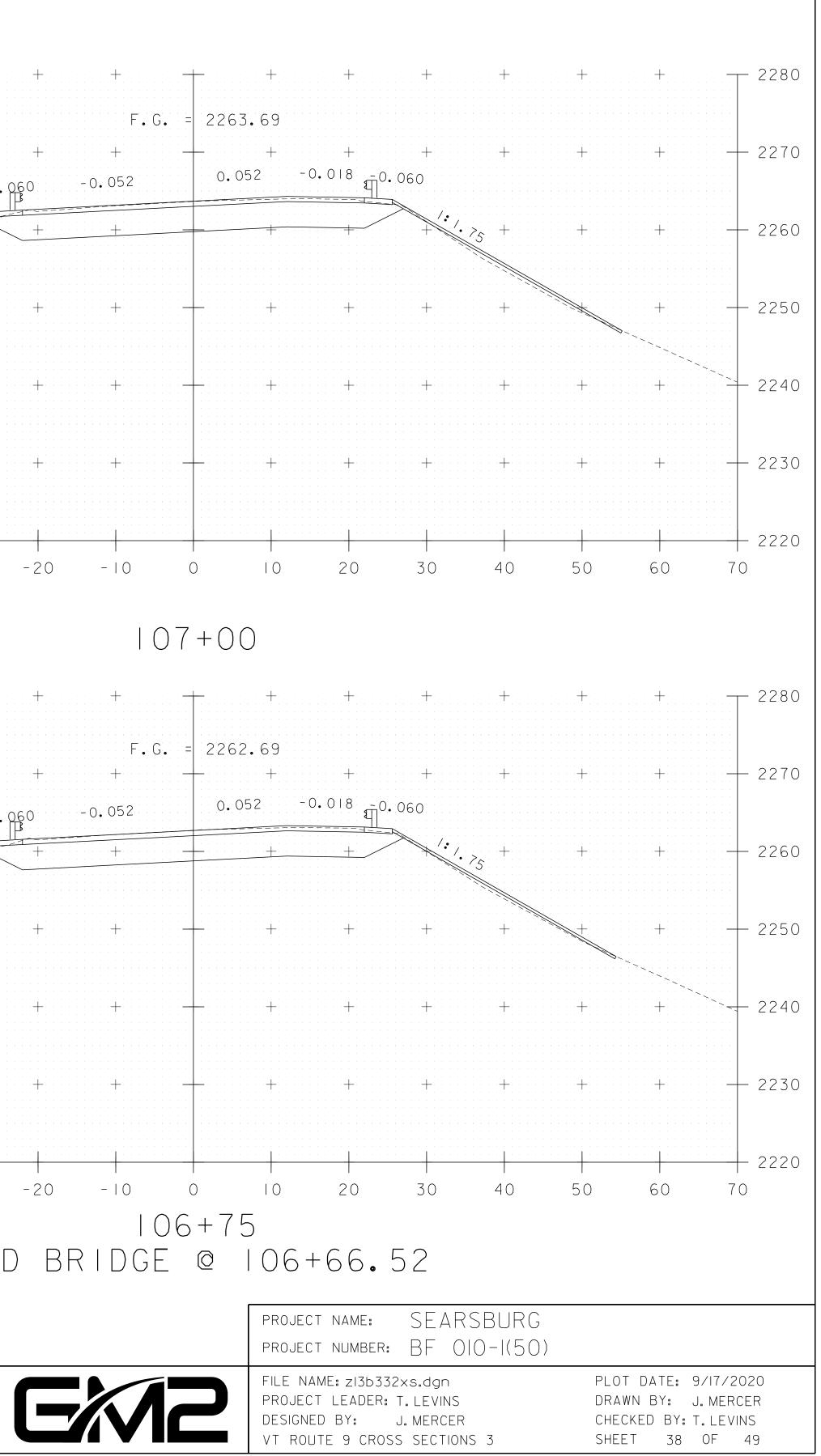


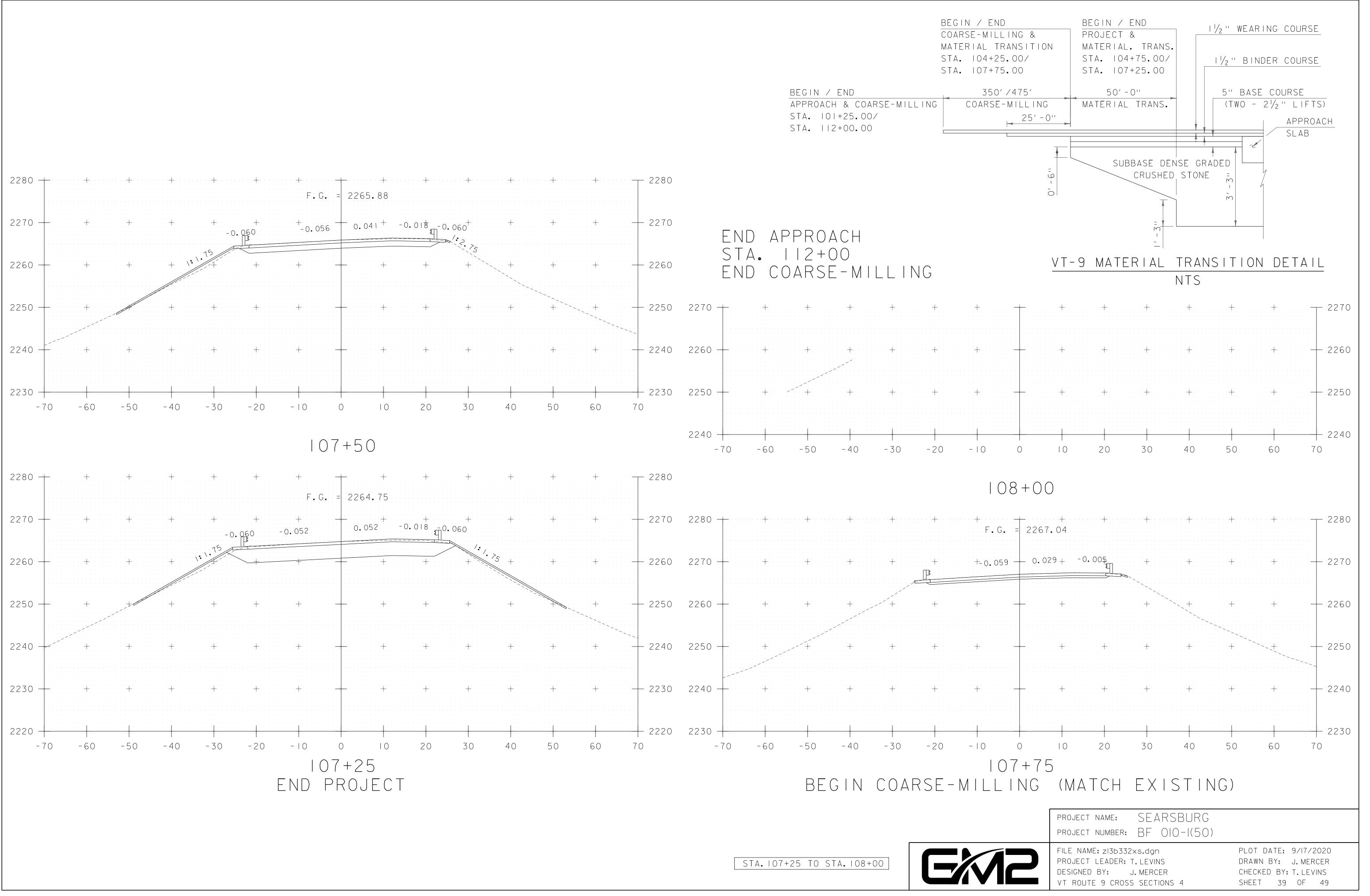




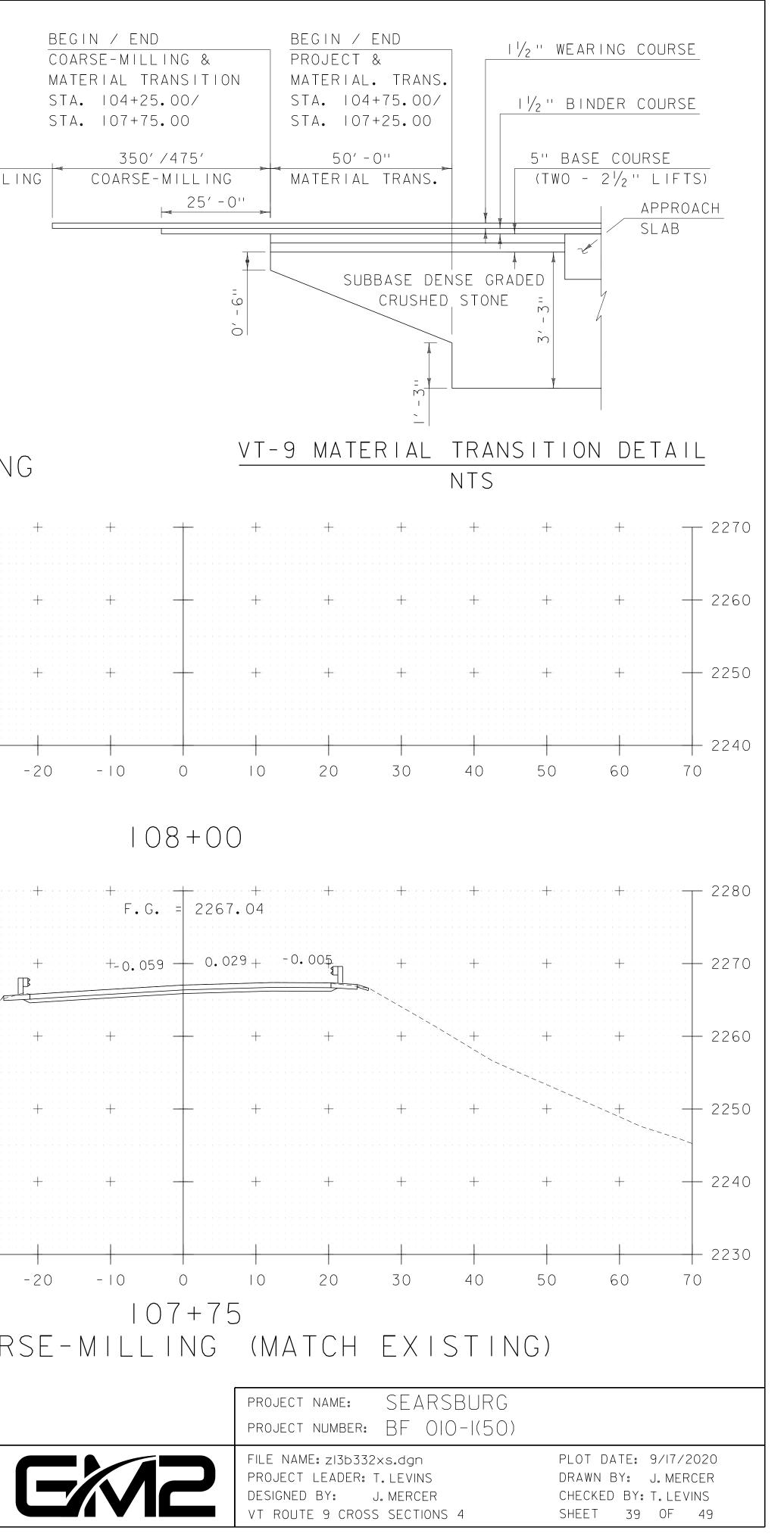


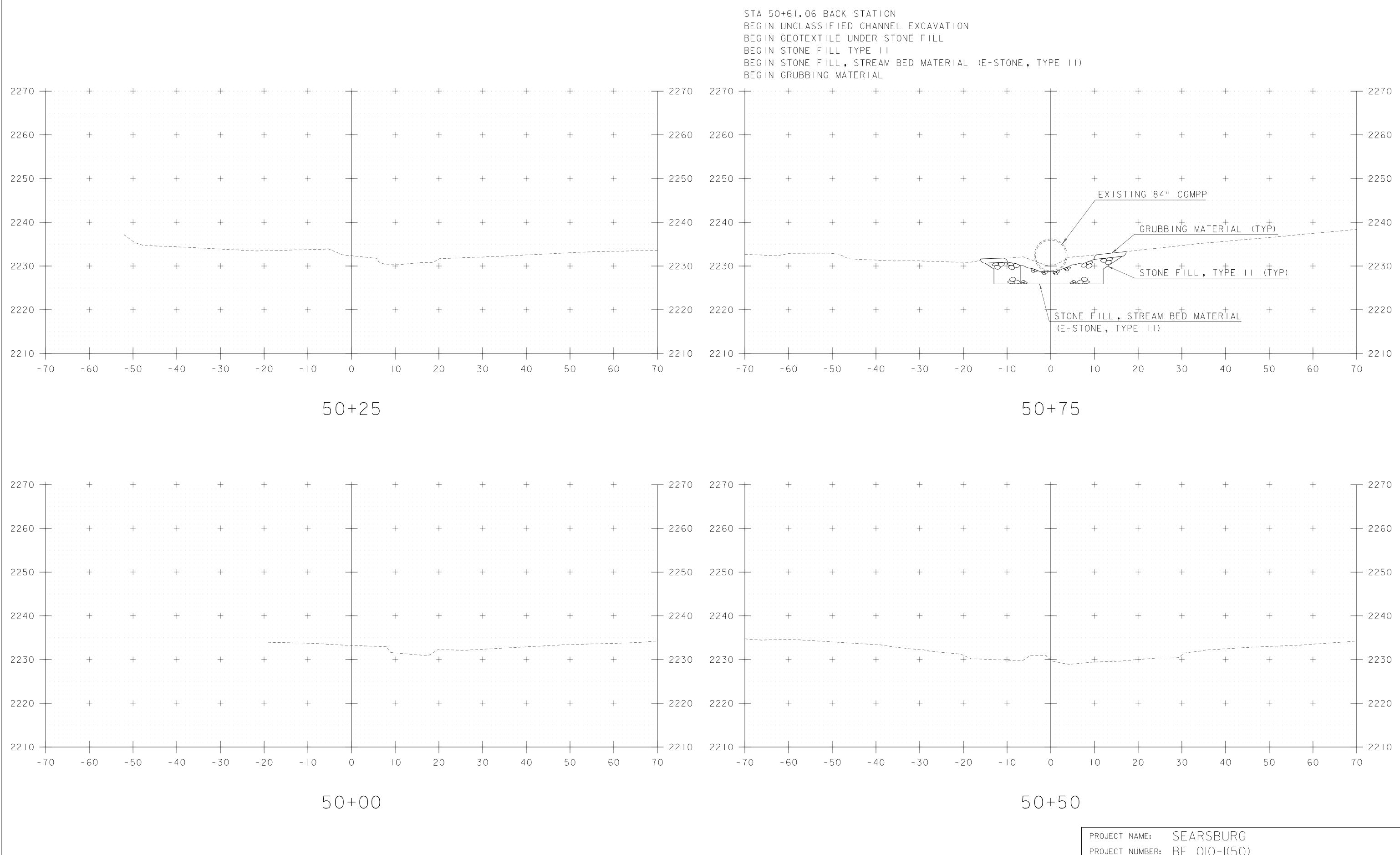






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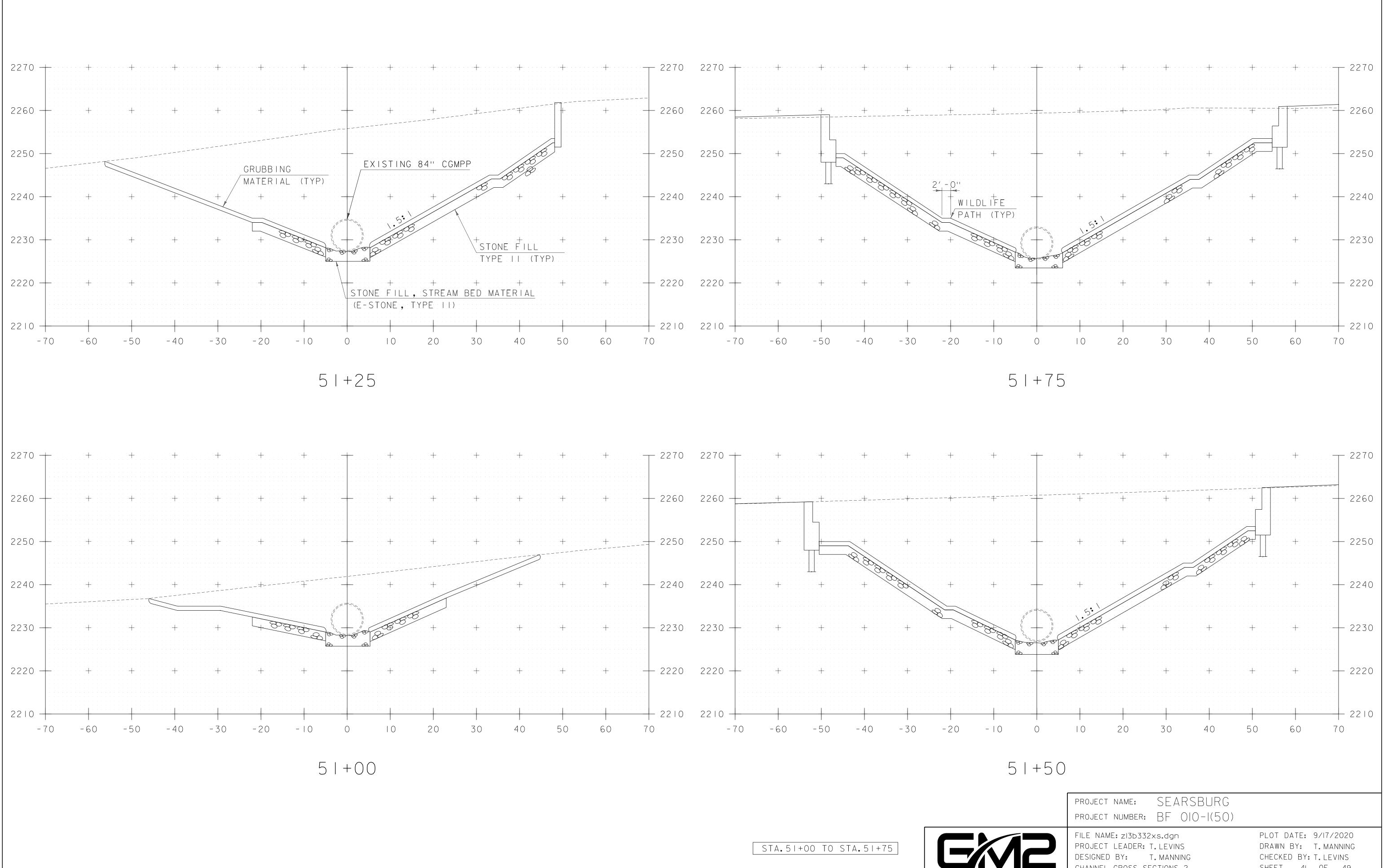


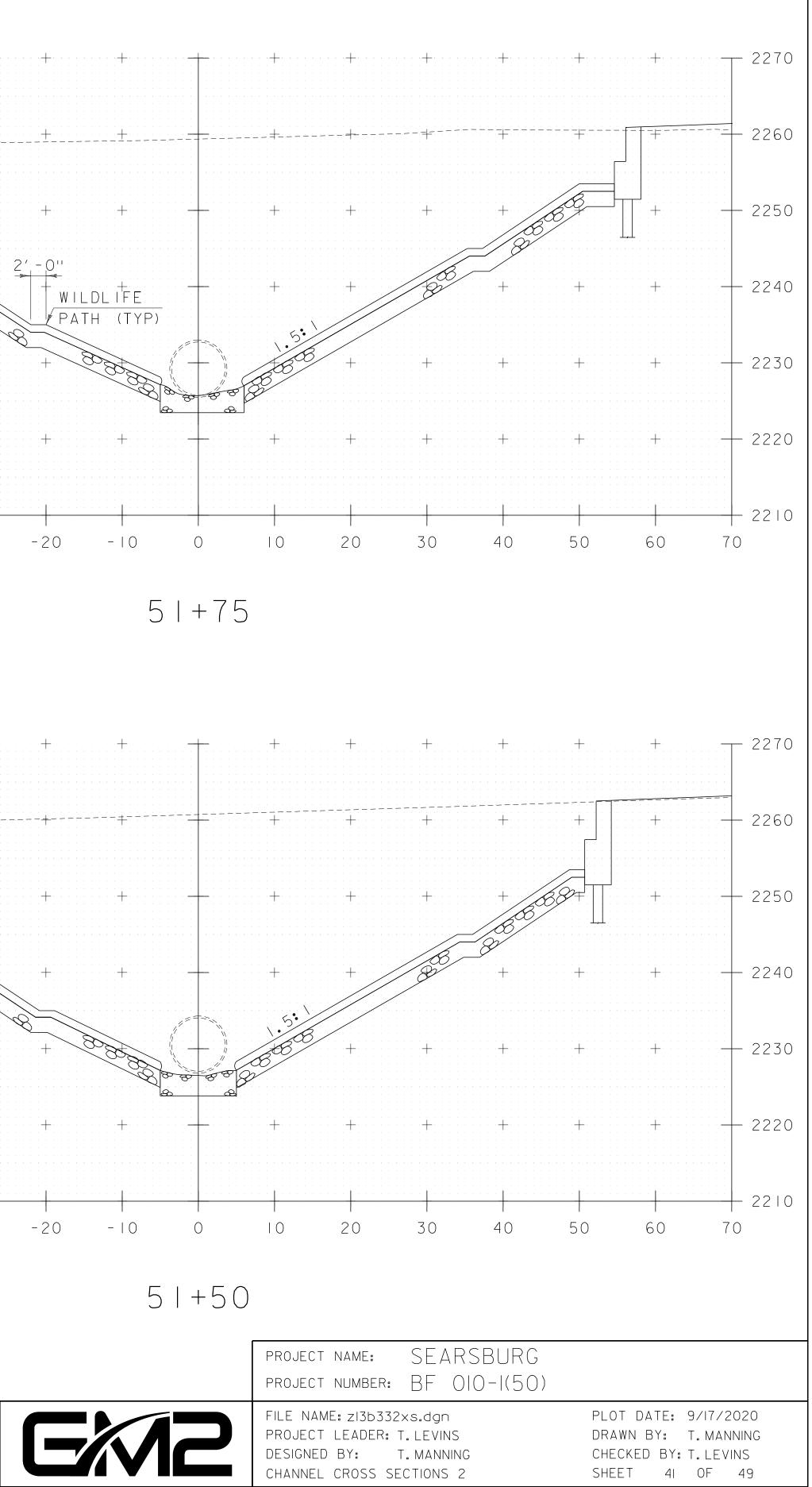


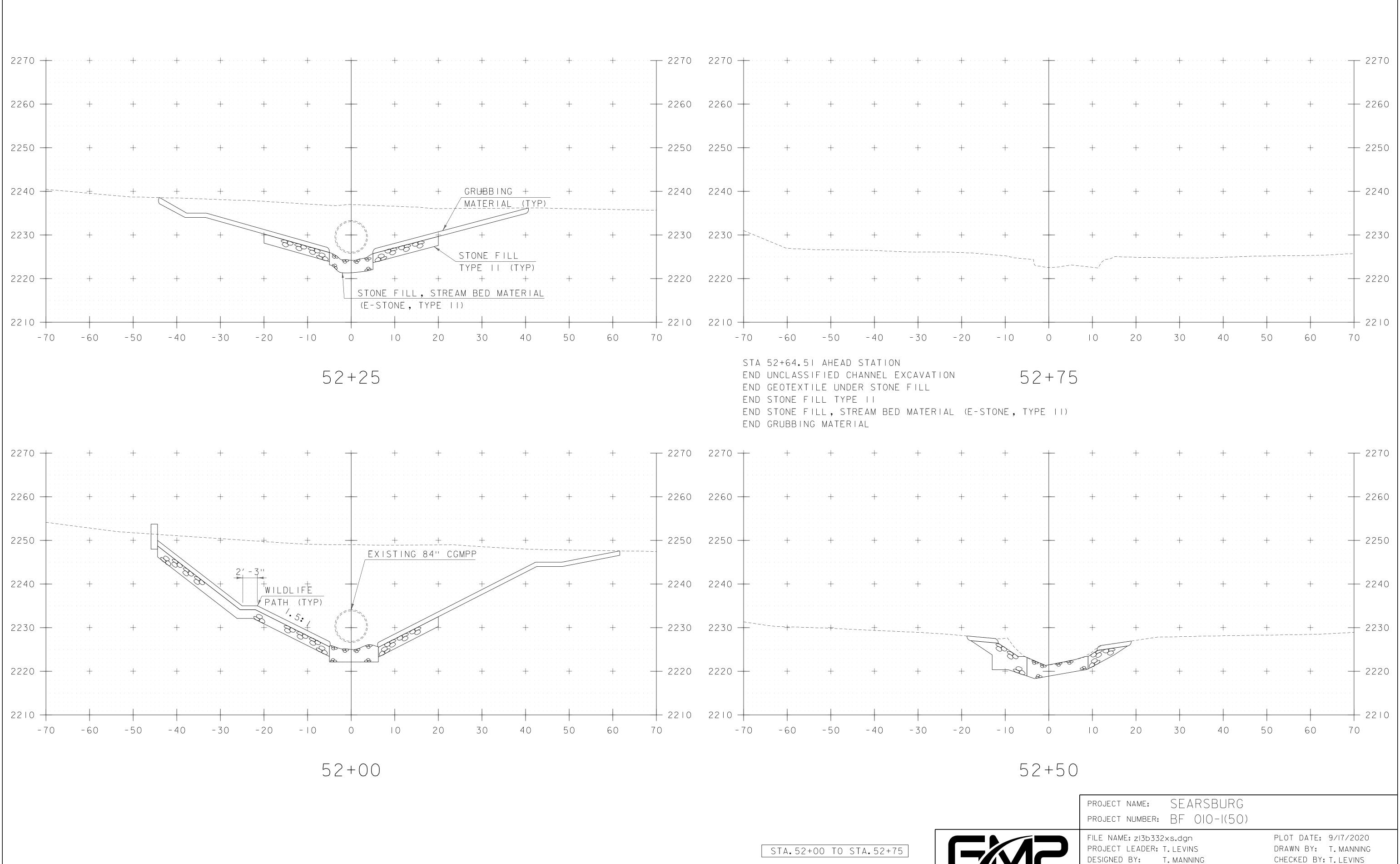
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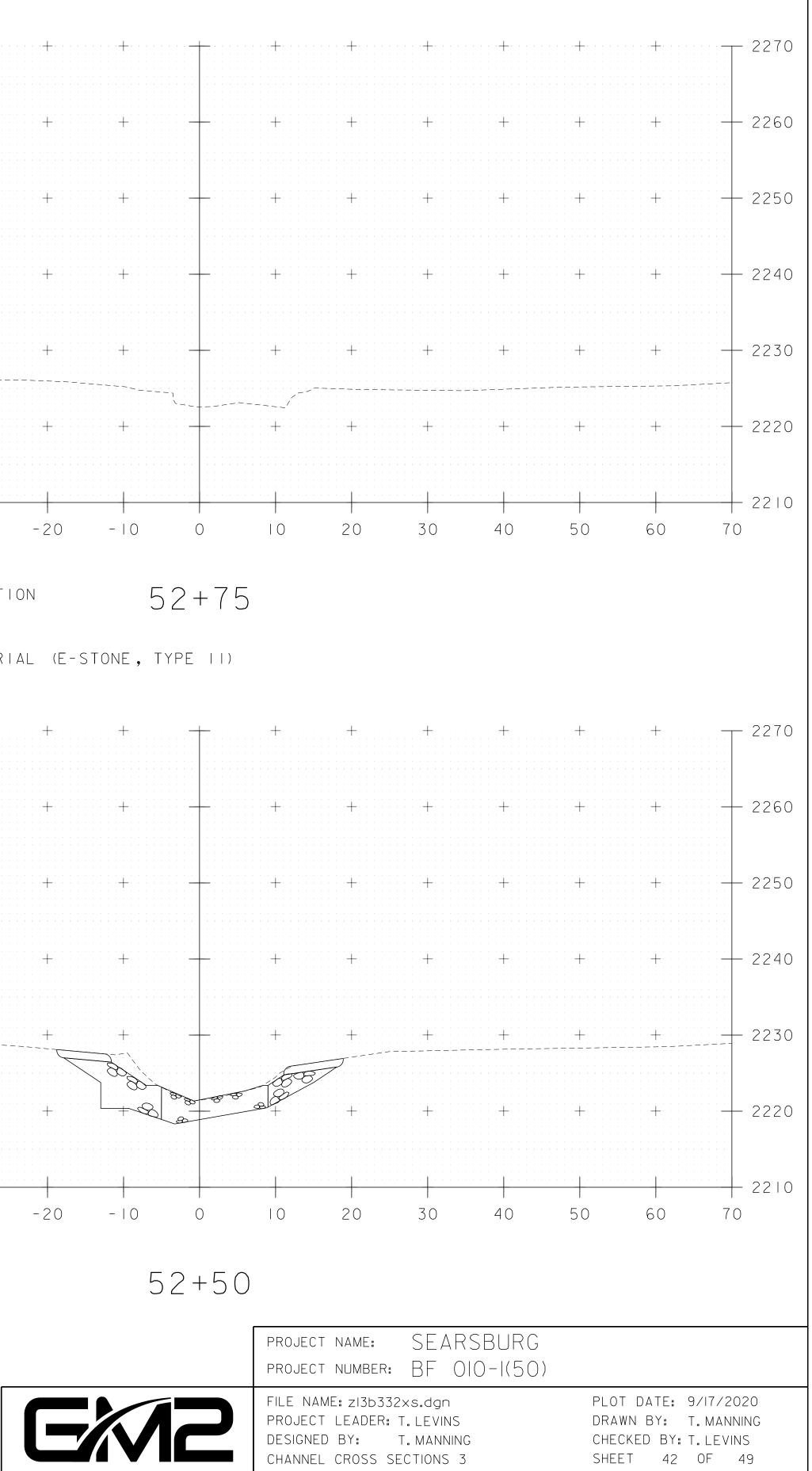


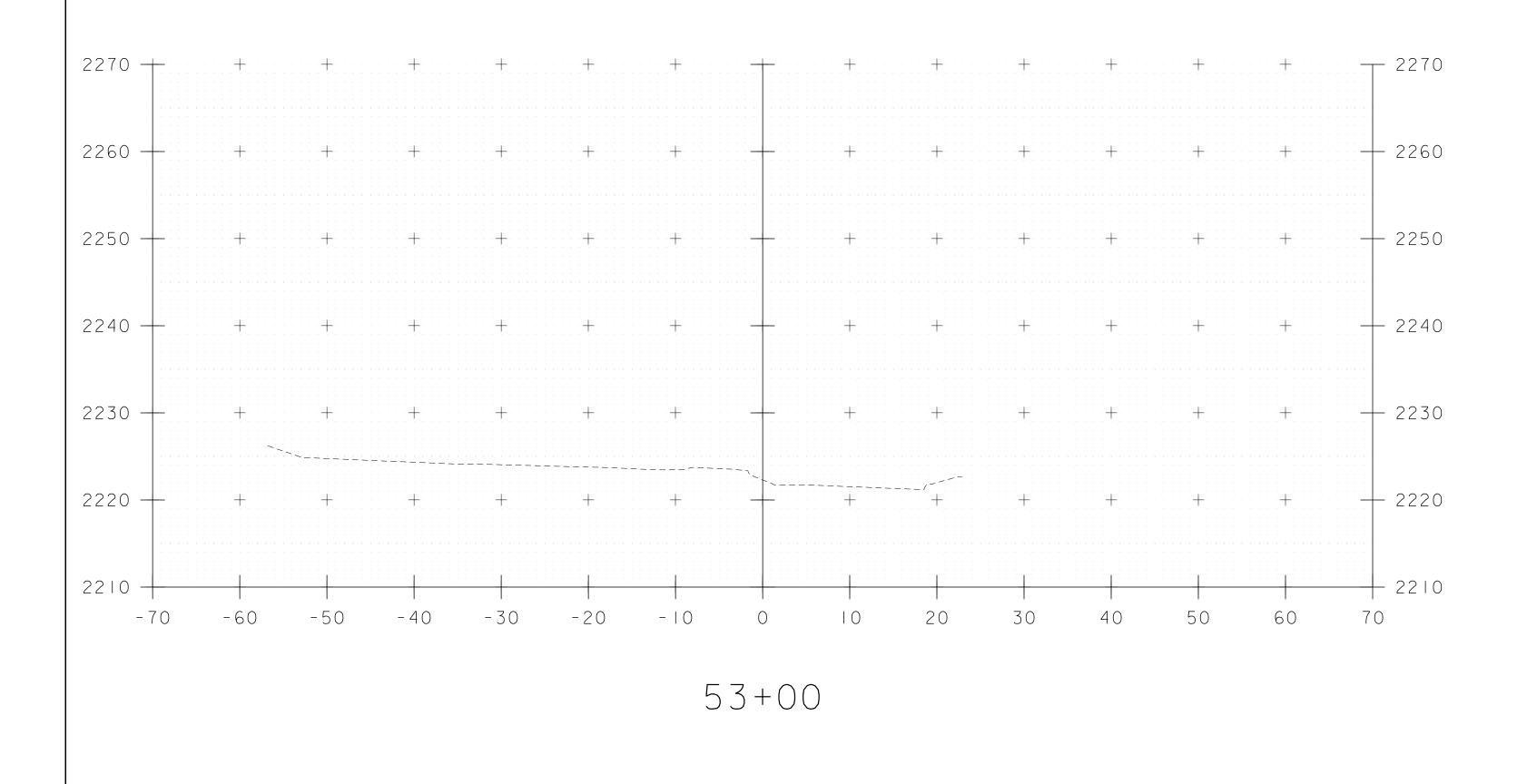
	project name: SEARSBURG project number: BF 010-1(50)	
2	FILE NAME: zI3b332xs.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING CHANNEL CROSS SECTIONS I	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 40 OF 49















	project name: SEARSBURG	
	project number: BF 010-1(50)	
2	FILE NAME: zI3b332xs.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING CHANNEL CROSS SECTIONS 4	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 43 OF 49

# EPSC PLAN NARRATIVE

## **1.1 PROJECT DESCRIPTION**

THIS PROJECT INVOLVES THE REPLACEMENT OF THE EXISTING BRIDGE 20. BRIDGE 20 WILL BE REPLACED WITH A SINGLE SPAN STEEL GIRDER STRUCTURE, SPANNING 103 FEET OVER UNNAMED BROOK. IT IS LOCATED IN THE TOWN OF SEARSBURG, ON VT ROUTE 9 IN A RURAL AREA, APPROXIMATELY 1.1 MILES WEST OF THE INTERSECTION OF VT ROUTE 8.

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

TOTAL AREA OF DISTURBANCE AS SHOWN ON THE ATTACHED EPSC PLAN IS APPROXIMATELY 1.98 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST SEVEN TO EIGHT MONTHS.

#### **1.2 SITE INVENTORY**

#### 1.2.1 TOPOGRAPHY

THE AREA SURROUNDING THE PROJECT IS GRASS AND WOODS IN A RURAL SETTING.

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

THE UNNAMED BROOK IS THE ONLY WATER SOURCE ON THE PROJECT SITE. THE BROOK IS CLASSIFIED AS MODERATELY SLOPED, SINUOUS, NARROW, WITH A CONFINED CHANNEL AT THE SITE. THE STREAM BED CONSISTS OF GRAVEL, COBBLES AND BOULDERS. THE TRIBUTARY AREA AT THE BRIDGE CROSSING IS 0.46 SQ. MI. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE COULD RECEIVE RUNOFF WATER FROM A FEW NEARBY SLOPES.

#### 1.2.3 VEGETATION

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

#### 1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF BENNINGTON, VERMONT. SOILS ON THE PROJECT SITE ARE WILMINGTON-MUNDAL ASSOCIATION, UNDULATING, VERY STONY, 3% TO 8% SLOPES, "K" VALUE = 0.06 TO 0.60.THE SOIL IS CONSIDERED TO HAVE MODERATELY LOW TO MODERATELY HIGH EROSION POTENTIAL.

**NOTE:** "K" VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL 0.24-0.36 = MODERATE EROSION POTENTIAL 0.37 AND HIGHER = HIGH EROSION POTENTIAL

**1.2.5 SENSITIVE RESOURCE AREAS** CRITICAL HABITATS: EXTREMELY HIGH WILDLIFE HABITAT CONNECTIVITY RATINGS HISTORICAL OR ARCHEOLOGICAL AREAS: NONE PRIME AGRICULTURAL LAND: NO THREATENED AND ENDANGERED SPECIES: NORTHERN LONG-EARED BAT, POTENTIAL FOR PLANT SPECIES OF SPECIAL CONCERN IN WETLANDS. WATER RESOURCE: UNNAMED BROOK WETLANDS: A LARGE CLASS II WETLAND COMPLEX ON SOUTH SIDE OF VT9. WETLANDS ALSO PRESENT DOWNSTREAM OF EXISTING STRUCTURE.

## **1.3 RISK EVALUATION**

THIS PROJECT FALLS UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH THE PERMIT REQUIREMENTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

#### 1.4 EROSION PREVENTION AND SEDIMENT CONTROL

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

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

# 1.4.1 MARK SITE BOUNDARIES

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

BARRIER FENCE (BF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES.

### 1.4.2 LIMIT DISTURBANCE AREA

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

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

### **1.4.3 SITE ENTRANCE/EXIT STABILIZATION**

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

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

#### 1.4.4 INSTALL SEDIMENT BARRIERS

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

GEOTEXTILE FOR SILT FENCE SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

#### 1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT AREA IS RELATIVELY FLAT. THEREFORE, IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

#### 1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

#### NONE ANTICIPATED.

#### **1.4.7 CONSTRUCT PERMANENT CONTROLS**

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

#### NONE ANTICIPATED.

#### **1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION**

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

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

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

#### **1.4.9 WINTER STABILIZATION**

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

#### 1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

#### **1.4.11 DE-WATERING ACTIVITIES**

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

FILTER BAG(S) SHALL BE USED FOR DEWATERING. LOCATION OF FILTER BAG(S) SHALL BE DETERMINED BY THE CONTRACTOR AND THE VTRANS PROJECT ENGINEER ON SITE.

#### 1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

# **1.5 SEQUENCE AND STAGING**

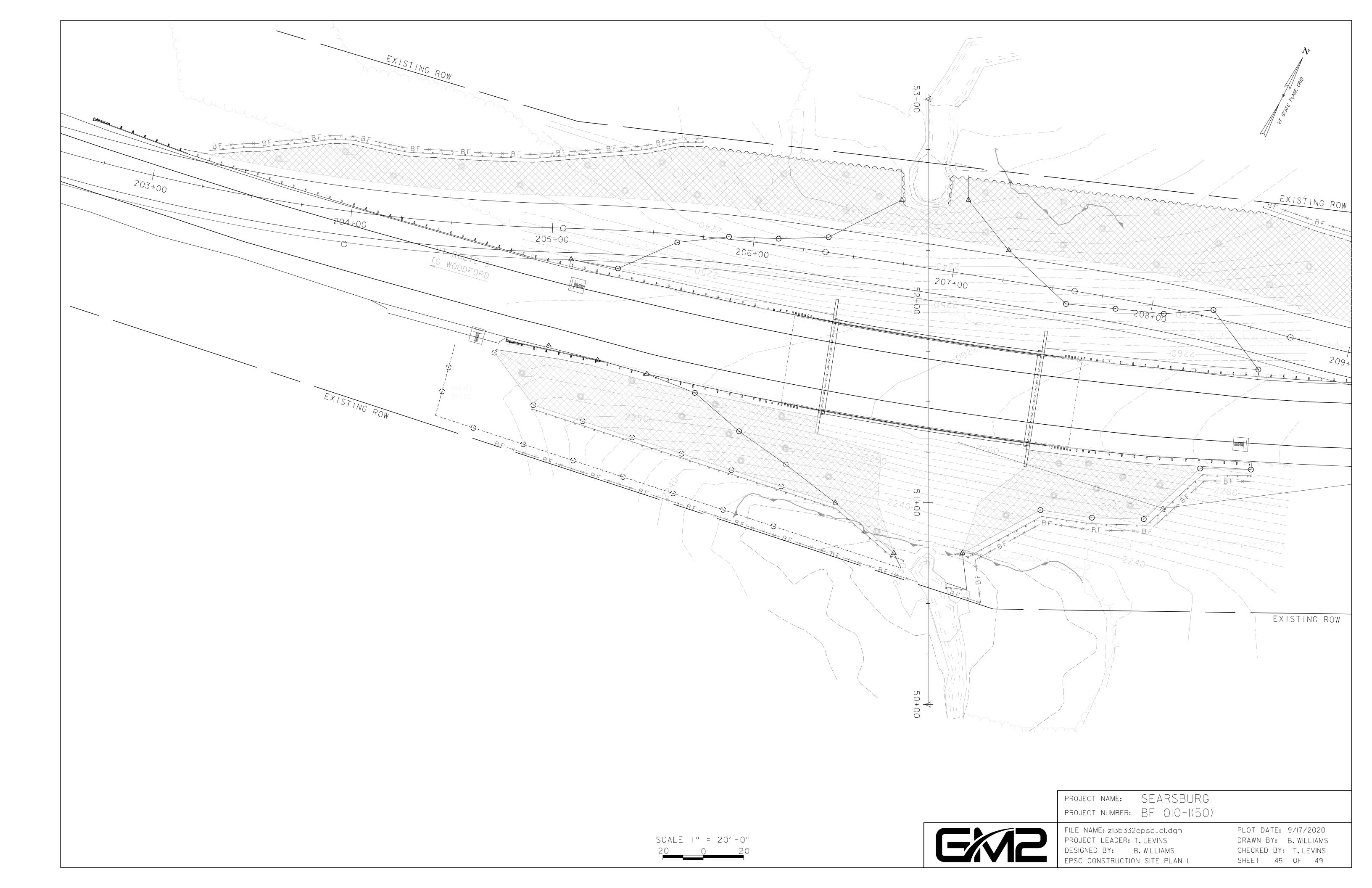
THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

#### 1.5.1 CONSTRUCTION SEQUENCE

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

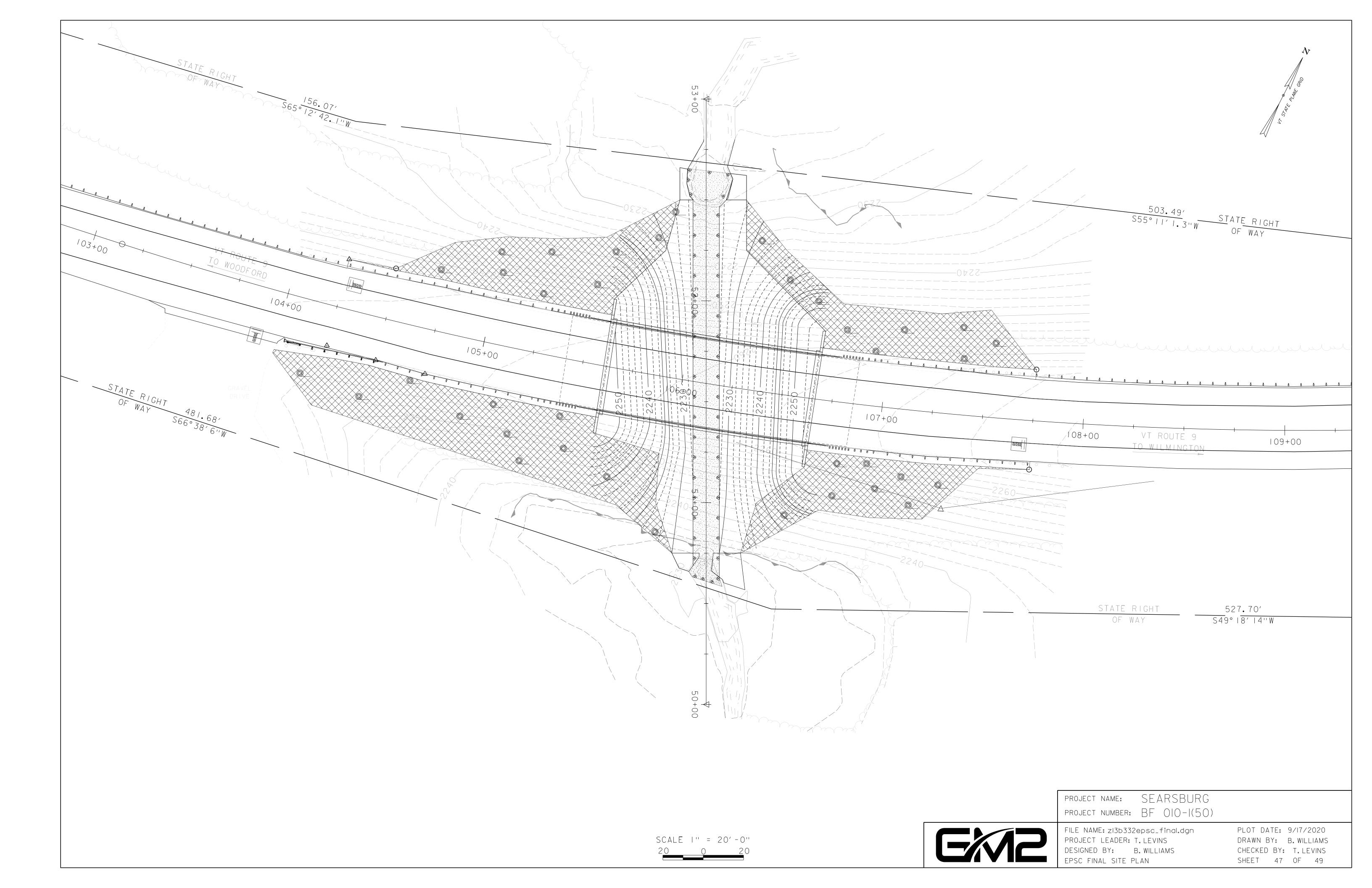


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2	FILE NAME: zI3b332epscnarrative.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: T.MANNING EPSC NARRATIVE	PLOT DATE: 9/17/2020 DRAWN BY: T.MANNING CHECKED BY:T.LEVINS SHEET 44 OF 49

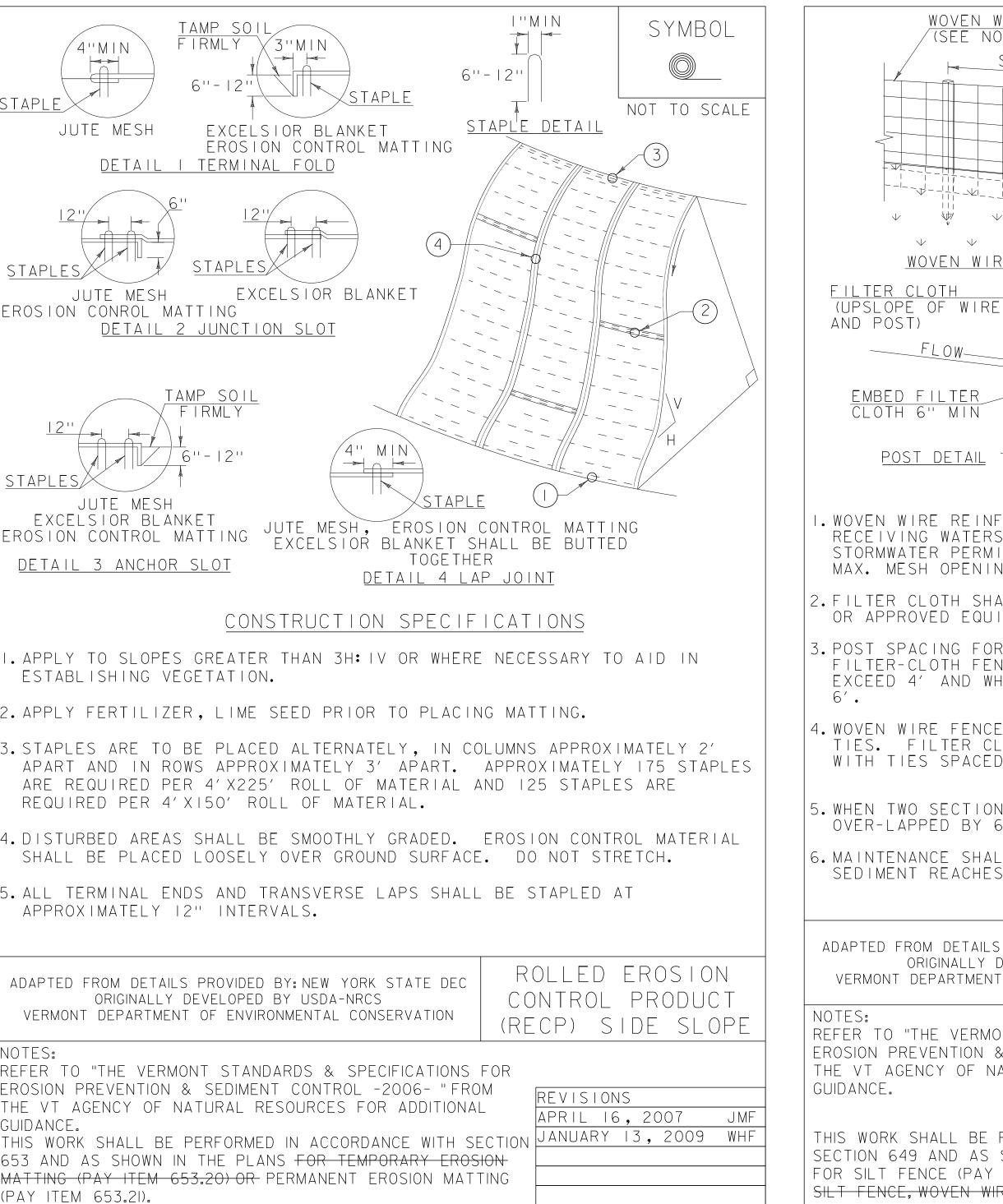




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	project number: BF 010-1(50)	
2	FILE NAME: zI3b332epsc_c2.dgn PROJECT LEADER: T.LEVINS DESIGNED BY: B.WILLIAMS EPSC CONSTRUCTION SITE PLAN 2	PLOT DATE: 9/17/2020 DRAWN BY: B.WILLIAMS CHECKED BY: T.LEVINS SHEET 46 OF 49



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SHEET 48 OF 49

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