	SUBSET 04 - STRUCTURES INDEX OF DRAWINGS				
DRAWING NUMBER S-01	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE		
	STRUCTURES INDEX OF DRAWINGS				
S-02	GENERAL PLAN AND ELEVATION				
S-03	TYPICAL BRIDGE CROSS SECTIONS				
S-04	GENERAL NOTES				
S-05	LAYOUT PLAN				
S-06	BORING LOGS (1 OF 4)				
S-07	BORING LOGS (2 OF 4)				
S-08	BORING LOGS (3 OF 4)				
S-09	BORING LOGS (4 OF 4)				
S-10	WATER HANDLING PLAN				
S-11	ABUTMENT 1 PLAN AND ELEVATION				
S-12	ABUTMENT 2 PLAN AND ELEVATION				
S-13	WINGWALL ELEVATIONS				
S-14	SUBSTRUCTURE DETAILS (1 OF 2)				
S-15	SUBSTRUCTURE DETAILS (2 OF 2)				
S-16	FRAMING PLAN AND DETAILS				
S-17	GIRDER ELEVATION AND DETAILS				
S-18	DECK PLAN AND DETAILS				
S-19	DECK REINFORCEMENT SECTIONS				
S-20	DECK DETAILS				
S-21	APPROACH SLAB DETAILS				
S-22	CONCRETE END BLOCK DETAILS				
S-23	BRIDGE RAIL DETAILS				

		SIGNATURE/ BLOCK:
DEV.	DESIGNER/DRAFTER: CHECKED BT:	
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PROJECT NUMBER: 0157-0088 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY OVER town(s): WESTON

DRAWING TITLE: STRUCTURES INDEX OF DRAWINGS

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

TRANSPORTATION PRINCIPAL ENGINEER

WEST BRANCH SAUGATUCK RIVER	S-01
	SHEET NO. 04.01

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١		11+00	— В MICHAEL'S WAY
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			(F)
		225'	
		<u></u>	
			220' -
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	/		
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		FEMA 100-YEAR ELEVATION (CA	LCULATED)
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DRAINAGE AREA	RAULICE	ELEVATION (CA ORDIN ORDIN 6.25 SQ. MILES	ARY HIGHWATER
	RAULICE	ELEVATION (CA ORDIN	NARY HIGHWATER
DRAINAGE AREA DESIGN FREQUENCY		ELEVATION (CA ORDIN ORDIN 6.25 SQ. MILES 100 YEAR	ARY HIGHWATER
DRAINAGE AREA DESIGN FREQUENCY DESIGN DISCHARGE	ELEVATION	ELEVATION (CA ORDIN ORDIN 6.25 SQ. MILES 100 YEAR 1,530 CFS	ARY HIGHWATER
DRAINAGE AREA DESIGN FREQUENCY DESIGN DISCHARGE AVERAGE DAILY FLOW UPSTREAM DESIGN WAT SURFACE ELEVATION	ELEVATION TER	ELEVATION (CA ORDIN 6.25 SQ. MILES 100 YEAR 1,530 CFS 211.47 FT (ESTIMATED)	NARY HIGHWATER
DRAINAGE AREA DESIGN FREQUENCY DESIGN DISCHARGE AVERAGE DAILY FLOW UPSTREAM DESIGN WAT SURFACE ELEVATION	ELEVATION TER WATER	ELEVATION (CA ORDIN 0RDIN 6.25 SQ. MILES 100 YEAR 1,530 CFS 211.47 FT (ESTIMATED) 220.09 FT	ARY HIGHWATER
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DRAINAGE AREA DESIGN FREQUENCY DESIGN DISCHARGE AVERAGE DAILY FLOW UPSTREAM DESIGN WAT SURFACE ELEVATION DOWNSTREAM DESIGN SURFACE ELEVATION MAXIMUM SCOUR ELEV FREQUENCY	ELEVATION TER WATER	ELEVATION (CA ORDIN 0RDIN 6.25 SQ. MILES 6.25 SQ. MILES 100 YEAR 1,530 CFS 211.47 FT (ESTIMATED) 220.09 FT 217.20 FT 217.20 FT 204.36 FT 500-YEAR	ARY HIGHWATER

2' RIPARIA
FEMA 100-YEAR FL EL. =
100 EL. 220.09 F EL. 217.20 FT. (D

CHECKED BY:	

HEIGHT

2.17'

LENGTH

67'-2"

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WIDTH

1.33'

WEIGHT

10,200 LBS

HORIZONTAL SCALE 1'' = 10'

SIGNATURE/

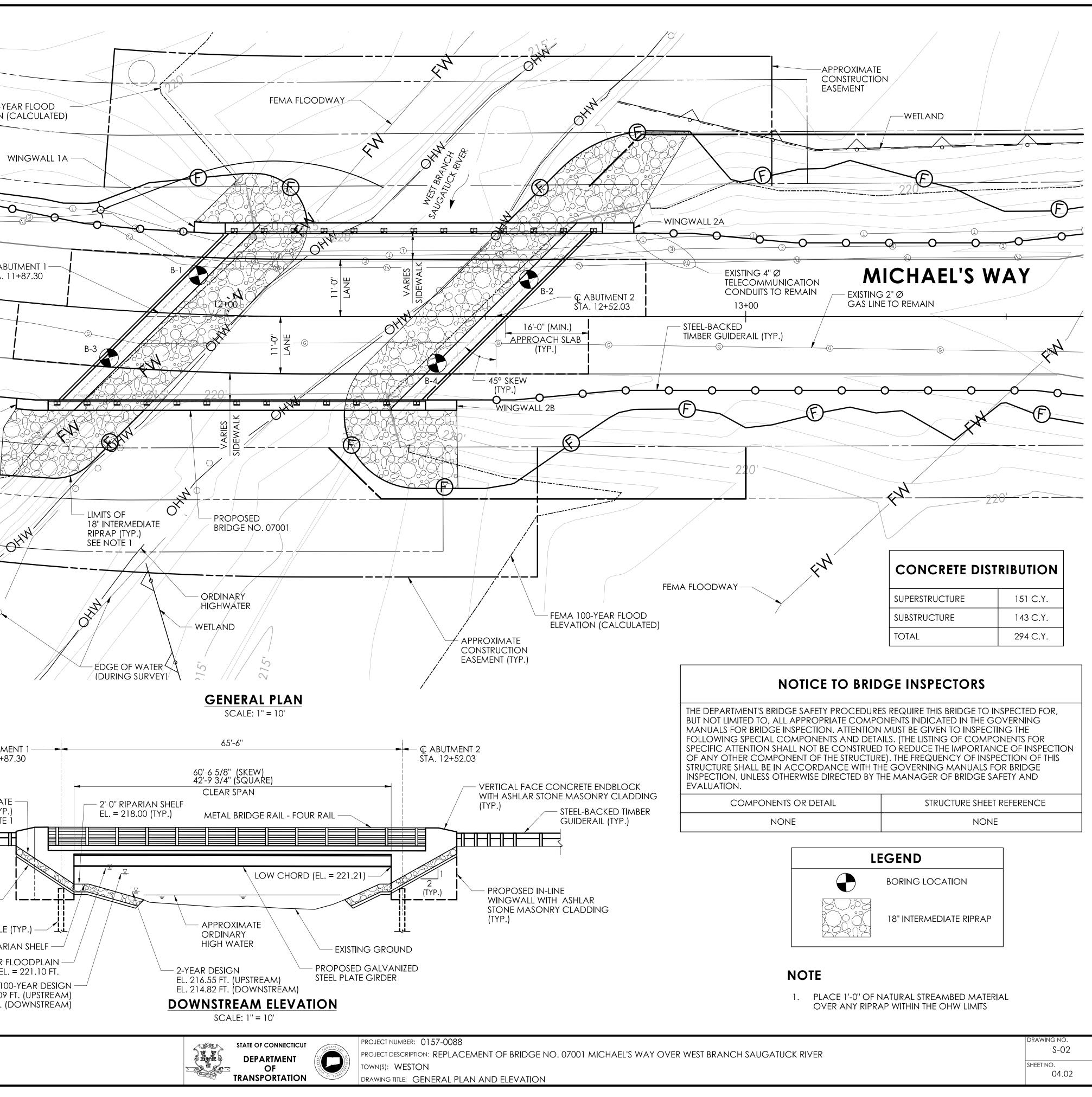
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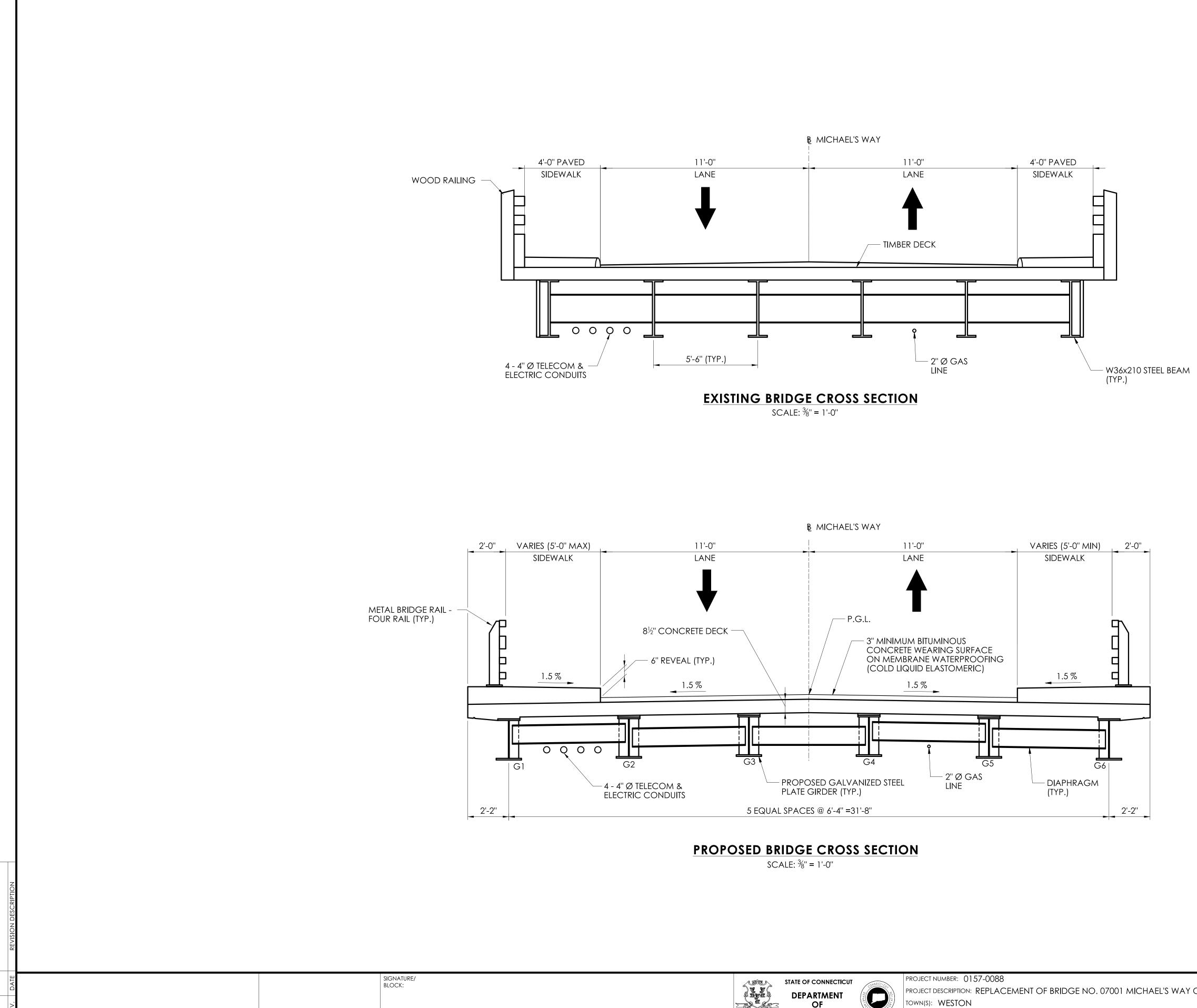
PLOTTED DATE: 2/27/2023

DESIGNER/DRAFTER:

MEMBER

G-1 - G-6





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DESIGNER/DRAFTER:

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DRAWING TITLE: TYPICAL BRIDGE CROSS SECTIONS

DRAWING NO.
S-03
SHEET NO.
04.03

GENERAL NOTES

SPECIFICATIONS: CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818 (2020), SUPPLEMENTAL SPECIFICATIONS DATED JULY 2022, AND SPECIAL PROVISIONS.

DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS - 8TH EDITION, 2017 AS SUPPLEMENTED BY THE CONNECTICUT DEPARTMENT OF TRANSPORTATION BRIDGE DESIGN MANUAL (2003) WITH REVISIONS THROUGH 2019.

MATERIAL STRENGTHS:

CONCRETE: CLASS PCC04462 CLASS PCC03340

f'c = 4,000 PSI f'c = 3,000 PSI

THE CONCRETE STRENGTH, f'c, USED IN DESIGN OF THE CONCRETE COMPONENTS IS NOTED ABOVE. THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE CONSTRUCTED COMPONENTS SHALL CONFORM TO THE REQUIREMENTS OF 6.01 - CONCRETE FOR STRUCTURES, AND M.03 - PORTLAND CEMENT CONCRETE.

REINFORCEMENT: (ASTM A615 GRADE 60)

Fy = 60,000 PSI

STRUCTURAL STEEL: (ASTM M270 GRADE 50 GALVANIZED) Fy= 50,000 PSI

LIVE LOAD: HL93, LEGAL AND PERMIT VEHICLES

STRUCTURAL STEEL: SEE STRUCTURAL STEEL NOTES FOR DESIGNATIONS AND REQUIREMENTS

BITUMINOUS CONCRETE OVERLAY: THIS SHALL CONSIST OF TWO LIFTS, 2" HMA S0.5 TRAFFIC LEVEL 2 ON 1" HMA SO.25 TRAFFIC LEVEL 2.

SALVAGE: NONE

PILE LOADS: THE VARIOUS GROUP LOADINGS NOTED ON THE SUBSTRUCTURE PLAN SHEETS REFERS TO THE GROUP LOADS AS GIVEN IN THE AASHTO LRFD BRIDGE DESIGN SPECFICIATIONS.

DIMENSIONS: WHEN DECIMAL DIMENSIONS ARE GIVEN TO LESS THAN THREE DECIMAL PLACES, THE OMITTED DIGITS SHALL BE ASSUMED TO BE ZEROS

EXISTING DIMENSIONS: DIMENSIONS OF THE EXISTING STRUCTURE SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL DESIGN DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL FIELD MEASUREMENTS NECESSARY TO ASSURE PROPER FIT OF THE FINISHED WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR REVIEW, THE FIELD MEASUREMENTS SHALL ALSO BE SUBMITTED FOR REFERENCE BY THE REVIEWER.

UTILITIES: THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE PROJCET LIMITS AND SHALL BE PROTECTED DURING CONSTRUCTION:

EVERSOURCE GAS FRONTIER COMMUNICATIONS EVERSOURCE ELECTRIC

MASH TEST LEVEL: THE FOUR BAR STEEL BRIDGE RAIL MEETS THE TL-4 CRITERIA FOR MASH 2016.

BRIDGE IDENTIFICATION PLACARDS: THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW BRIDGE IDENTIFICATION SIGNS AT THE LEADING END OF EACH BRIDGE PARAPET ON THE TRAFFIC SIDE. THE SIGNS SHALL BE FABRICATED WITH 40 GAUGE ALUMINUM SHEET METAL. THE SIGNS SHALL BE 4" X 12" WITH 3" WHITE REFLECTIVE BLOCK LETTERS ON GREEN SHEETING. EACH SIGN SHALL READ: 07001. ALL COSTS ASSOCIATED WITH PROVIDING AND INSTALLING THE BRIDGE SIGNS SHALL BE COVERED UNDER "SIGN FACE-SHEET ALUMINUM (TYPE IX RETROREFLECTIVE SHEETING)" THE FINAL LOCATION AND ATTACHMENT METHOD FOR THE SIGNS SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.

CONCRETE NOTES

REMAIN-IN-PLACE FORMS: THE USE OF REMAIN-IN-PLACE FORMS ON THIS STRUCTURE IS NOT ALLOWED.

COMPOSITE CONSTRUCTION: NO TEMPORARY INTERMEDIATE SUPPORTS SHALL BE USED DURING THE PLACING AND SETTING OF THE CONCRETE DECK SLAB. TEMPORARY SUPPORTS MAY BE USED FOR STRUCTURAL STEEL ERECTION ONLY. CONSTRUCTION LOADS AND DEAD LOADS WILL BE PERMITTED WHEN DIRECTED BY THE ENGINEER BUT ONLY WHEN THE CONCRETE HAS REACHED A STRENGTH OF f'C=3500psi. LIVE LOADS (TRAFFIC) WILL BE PERMITTED ON THE STRUCTURE AFTER THE CONCRETE HAS REACHED A STRENGTH OF f'c=4000psi.

THE FOLLOWING PAY ITEMS AND CONCRETE CLASSES ARE REQUIRED FOR CAST-IN-PLACE BRIDGE COMPONENTS:

ITEM	BRIDGE COMPONENT	PCC CLASS
ABUTMENTS & WINGWALLS	ABUTMENTS BELOW BEAMS AND WINGWALLS	PCC03340
BRIDGE DECK CONCRETE	BRIDGE DECK, ABUTMENTS ABOVE BEAM SEAT,	PCC04462
SIDEWALK CONCRETE	SIDEWALKS	PCC04462
BRIDGE RAIL CONCRETE	CONCRETE END BLOCKS	PCC04462

EXPOSED EDGES: EXPOSED EDGES SHALL BE BEVELED 1"x1" UNLESS DIMENSIONED OTHERWISE.

CONCRETE COVER: ALL REINFORCEMENT SHALL HAVE TWO INCHES COVER UNLESS DIMENSIONED OTHERWISE.

REINFORCEMENT: ALL REINFORCEMENT SHALL BE EPOXY COATED OTHERSWISE NOTED.

CONSTRUCTION JOINTS: CONSTRUCTION JOINTS, OTHER THAN THOSE SHOWN ON THE PLANS, WILL NOT BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

> SIGNATURE/ BLOCK:

DESIGNER/DRAFTER:

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PLOTTED DATE: 2/27/2023

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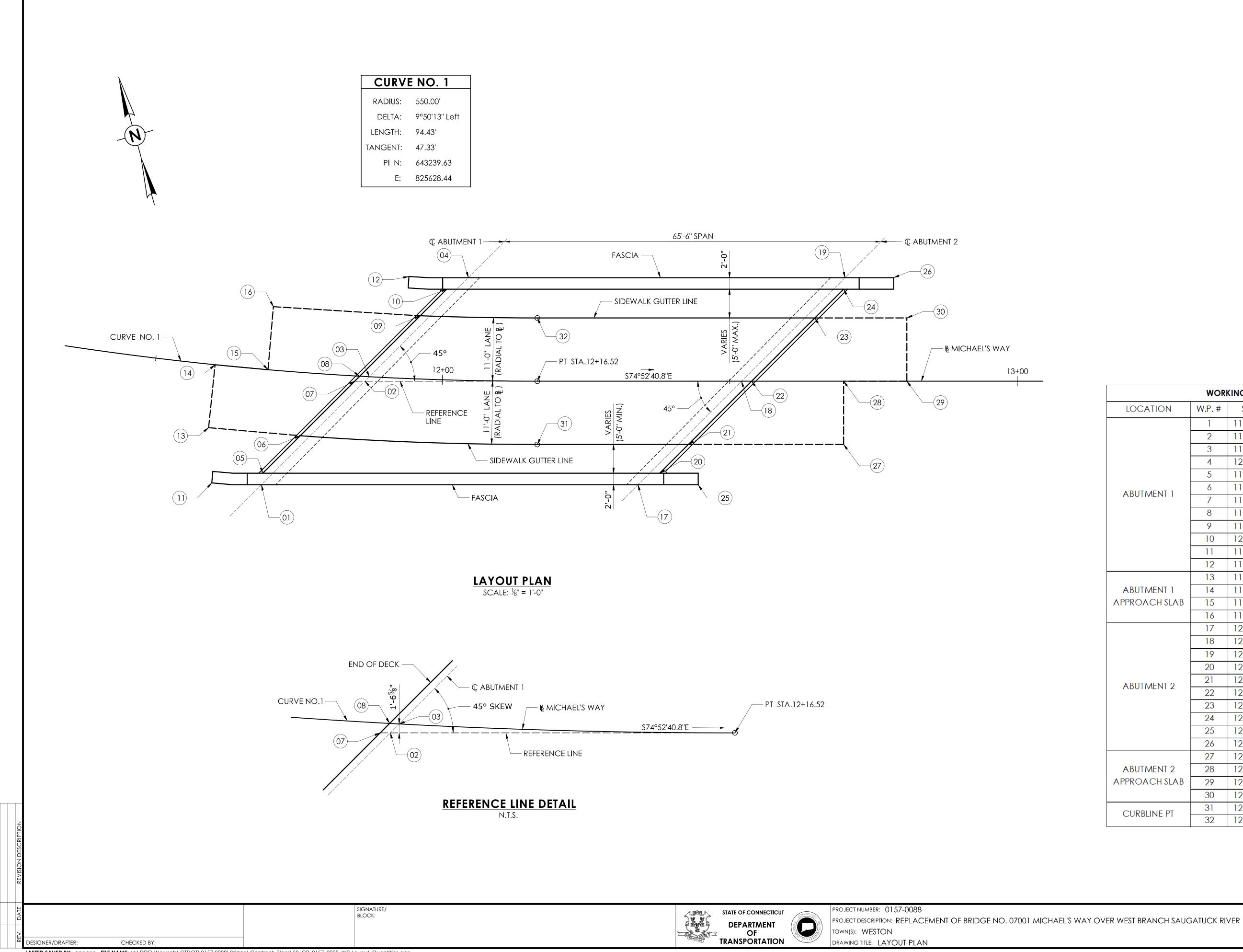






PROJECT NUMBER: 0157-0088 PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY TOWN(S): WESTON DRAWING TITLE: GENERAL NOTES

	DRAWING NO.
OVER WEST BRANCH SAUGATUCK RIVER	S-04
	SHEET NO.
	04.04



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WORKING POINT COORDINATES TABLE					
LOCATION	W.P. #	STA.	OFFSET	NORTH	EAST
	1	11+70.16	20.02 RT	643222.42	825623.11
	2	11+86.56	0.82 RT	643235.11	825645.18
	3	11+87.30	0.00 RT	643235.65	825646.14
	4	12+04.13	17.87 LT	643247.79	825667.26
	5	11+70.23	18.01 RT	643224.29	825623.86
	6	11+76.06	11.00 RT	643228.89	825631.85
ABUTMENT 1	7	11+84.80	0.92 RT	643235.57	825643.48
	8	11+85.62	0.00 RT	643236.18	825644.54
	9	11+95.73	11.00 LT	643243.59	825657.44
	10	12+00.32	15.77 LT	643246.84	825663.10
	11	11+61.84	20.50 RT	643224.98	825614.86
	12	11+93.44	17.74 LT	643250.69	825657.32
	13	11+60.37	11.00 RT	643234.40	825 <mark>616.</mark> 83
ABUTMENT 1	14	11+60.37	0.00 RT	643244.67	825620.76
APPROACH SLAB	15	11+69.62	0.00 RT	643241.43	825629.43
	16	11+69.62	11.00 LT	643251.77	825633.19
	17	12+34.03	18.00 RT	643205.34	825686.34
	18	12+52.03	0.00 RT	643218.02	825708.42
	19	12+70.03	18.00 LT	643230.70	825730.49
	20	12+37.80	16.00 RT	643206.29	825690.50
	21	12+42.80	11.00 RT	643209.81	825696.63
ABUTMENT 2	22	12+53.80	0.00 RT	643217.56	825710.12
	23	12+64.80	11.00 LT	643225.31	825723.61
	24	12+69.80	16.00 LT	643228.83	825729.74
	25	12+44.51	18.00 RT	643202.60	825696.46
	26	12+78.51	18.00 LT	643228.49	825738.67
	27	12+69.80	11.00 RT	643202.76	825722.70
ABUTMENT 2	28	12+69.80	0.00 RT	643213.38	825725.57
APPROACH SLAB	29	12+80.80	0.00 RT	643210.51	825736.19
	30	12+80.80	11.00 LT	643221.13	825739.06
	31	12+16.52	11.00 RT	643216.66	825671.26
CURBLINE PT	32	12+16.52	11.00 LT	643237.90	825677.00

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	101. (2	00) 000-41	55								Boring Contract	ors. Inc.	E. Coord				
2	e Eleva	tion: 224.3						sing			Auger	Mud	Sample	_			Barrel
		7/13/20		Utiliz	ed			X		Х			X				Х
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_		ft after		Fall (i	n)			24		-			30	c	of Bit	С	arbide
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	6			1									n-f Gravel		-		-
	32	3 to 5	2	24	4	SS	10	8	7	7		Medium	dense, bro	own, C	C-F SAN	ND, little	m-f Gravel,
	24											little \$	Silt				
	27	5 to 7	3	24	8	SS	6	11	16	11	FILL	Medium	dense, dar	rk bro	wn, C-F	F GRAV	EL, some c-f Sand
	36											little \$	Silt				
	37	7 to 9	4	24	10	SS	13	10	7	9		Medium	dense, dar	rk bro	wn/light	t brown,	C-F GRAVEL,
	34											some	c-f Sand,	trace	Silt		
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-	17	10 1- 10 0				60		-		E0/5"	ALLUVIUM					ht hre	own, C-F SAND,
-	15	10 to 12	5	24	7	SS	10	10	7	9	BURIED TOPSOIL	-	dense, d AND, litt		-	yray, I	M-F GRAVEL and
_	23	40.00	-						-			Marilian		ا داد			
L	20									$\left - \right $		little S	JII				
	18	7 to 9	4	24	10	SS	9	8	16	16			,		Jwn, C-F	r Jai	ND, Some c-t Gravel,
ŀ	29	74-0		~	40				40	40		litle Sil Medium d		ark hr		FSA	ND, some c-f Gravel,
_	17	5 to 7	3	24	10	SS	10	7	8	8	FILL			orown,	C-F SAI	ND, S	ome c-f Gravel
	26											little S			0 5 0 4 4		
	23	3 to 5	2	24	9	SS	7	8	5	4			,	orown,	C-F SAN	ND ar	nd M-F GRAVEL,
	12	.	-					-	-			little S			0 - 0		
┡	5	1 to 3	1	24	7	SS	9	6	4	5		Loose, br		F GR/	AVEL an	nd C-F	- SAND,
	3		-				-	-	-		PAVEMENT	5" Asphal		E 0 D 1			
ŀ	foot	FROM - TO	 				6	12	18	24							
	_	IN FEET	NO.	in	in	Туре		6	12	18	DEPTH		0	DF WA	SH WAT	TER,	ETC.)
	per	DEPTH		PEN.				ON SA			CHANGE:						OR, LOSS
	blows] P	PER 6	INCH	ES	STRATA		FIELD		ITIFICA		I OF SOIL,
1	Casing	1	SAMF		,				ows	•	I		-	•	- **		•
-	3.0	ft after	5	Fall (ir				24		-			30		of Bit		Carbide
òr		ater Observatior ft after 41 hours		Size I. Hamm				4 300		4			1.375 140		Туре	x	Diamond
-		: 7/10/20		Туре		BW	NW	HW	Pipe	Solid	Hollow		SS	i	B (s)	B (c	d) NX (s) NX (d)
St	arted:	7/8/20		Utilize	ed			Х		Х			Х				Х
ce	Eleva	ation: 223.9					Ca	sing		ŀ	Auger	Mud	Sam	npler		С	ore Barrel
	101. (2	200/000 4100									oring Contractor	s, Inc.			ate: 825		
	Tel: (2	203) 683-4155		STAT				-			ation michaels m	lay	N. Co	ordina	ate: 643	3223	28
ſ	Vaugat	tuck, CT 06770		INSP				-	01 P	habilit	ation Michaels W	101	File N	lo.: 00	038-022	2.00	
		Church Street		DRILI											Availat		
	II IO Ea	arth Consulting,	LLC			STO									ion: No		ailable
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REVISION DESCRIPTION		
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;;															
;															
,	LOG			Hole No.: B-2											
	200						+ 40-11	able							
_						on: No		anie							
						Availat									
	, · ·			⊢ile N	o.: 00	038-022	2.00								
t	ation Micha	aels W	ay												
						ate: 643									
3	oring Cont	ractors	, Inc.	E. Co	ordina	ate: 825	5716.34	4							
4	Auger	ľ	Mud	Sam	pler		Cor	e Barrel							
				Х					Х						
I	Hollow			SS	UP	B (s)	B (d)	NX (s)	NX (d)						
I				1.375											
I				140		Туре	Х	Diamor	nd						
İ				30		of Bit		Carbide							
İ									-						
	STRA	тΔ		EIEI I	אשרו ר			F SOIL,							
ļ	CHANC														
l	DEPT														
ļ	DEPT	П		C	r wa	SH WA	IER, E	10.)							
ļ			Fair Quali	ty Lar		ntly Mar	athorod	aray/blc	ck						
ļ						iuy vvea	au iei ea,	gray/bla	icn,						
ļ						• -									
J	BEDRO	CK	[Core	Times (min/ft)	: 6.5, 5,	11, 6.8	, 12]							
ļ															
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İ				END O	F EXP	LORAT	ION AT	40 FEE	Г						
l															
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	be gradual.		evel					Hole N							
	be gradual. ue to other fa		evel					Hole No Sheet 2							

	- -			TOW				ONND	от во	RING	LOG		Hole No				-
w		rth Consulting,		TOW									Line & S				е
		hurch Street		DRILI									Offset: I				
	Naugatu	uck, CT 06770		INSP				-					File No.	: 0038-0	022.0	0	
								_			ation Michaels W	-					
	Tel: (2	03) 683-4155		STAT									N. Coor				
	-			BORI	NG C	UNTR/			wEng		oring Contractors		E. Coor		32563		
		tion: 224.3					Ca	sing	-		Auger	Mud	Sampl	er		Core	Barrel
	tarted:			Utilize	ed			Х		Х			Х				X
	inished:			Туре			NW	HW	Pipe	Solid	Hollow		+	JP B (s	s) B	(d) N	X (s) NX (d)
G		ter Observation		Size I.				4	 	4			1.375		-		
		ft after 16 hours		Hamm	· · /			300	 	-			140	Тур	~		amond
		ft after		Fall (ir)			24		-			30	of B	Bit	С	arbide
	Casing		SAMP	LE					ows								
	blows							PER 6			STRATA			IDENTIFI			
	per	DEPTH		PEN.		_		ON SA			CHANGE:			RKS (INC			
I		IN FEET	NO.	in	in	Туре			12	18	DEPTH		OF	WASHV	WATE	R, ET	C.)
┞	foot	FROM - TO	 				6	12	18	24	B A A B A B A A B A B A A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A B A 						
	3		 					 	 		PAVEMENT	4" Aspha					
ļ	11	1 to 3	1	24	7	SS	7	7	9	7				k brown, (C-F G	RAVE	and C-F SAND
	19											little S					
	16	3 to 5	2	24	5	SS	7	10	12	12				wn, C-F G	GRAVE	EL, sor	ne c-f Sand,
	9											trace	Silt				
	13	5 to 7	3	24	4	SS	16	22	11	10	FILL	Dense, da	ark brown,	C-F GRA	AVEL,	some	c-f Sand,
	15											trace	Silt				
	18	7 to 9	4	24	4	SS	14	14	18	24		Dense, da	ark brown,	C-F GRA	AVEL,	little c	f Sand,
	19											traces	Silt				
	126	9 to 9.4	5	5	5	SS	75/5"					Very dens	se, gray, C	-F SAND), little	Silt, lit	le m-f Gravel
	113		_		-												
	91										BOULDER						
	12	12 to 14	6	24	3	SS	4	5	7	13	BURIED TOPSOIL	Medium d	dense darl	k brown to	o arav	/ C-F \$	AND some Silt
	10	12 10 14		27	<u> </u>	00	-		'	10			f Gravel, tr			, 0-1 0	
	14	14 to 16	7	24	0	SS	19	22	18	23		lace			.5		
	17	14 10 10	<u>'</u>	27	0	00	10		10	20							
	22	16 to 18	8	24	10	SS	18	19	18	26		Dense lia	aht brown	C-E GRA		some	-f Sand, trace
	20	101010		24	10		10	15	10	20		Silt	g,		,	como	, i doo
	31											Ont					
	48										TILL						
		20 to 22	9	24	15	~~~	27	19	14	11		Dense lic	abt brown			me m-f	Gravel, little
	39	20 to 22	9	24	15	SS	21	15	14			Silt	gin biowii,		ND, 501	IIIE III-I	Glavel, Inde
	33											Sin					
	57																
	84																
	162	05			40			<u> </u>	0.01			Fair Ouel	ity Hard I	Moderate		athered	, gray/white,
		25 to 30	1	60	49	С		C = 49"					NITIC GNE		ay wea		, gray/write,
							RQE) = 38". I	/60" = (T	5.3%			Times (mi		617	975	31
												[Core			J.1, /,	, ., ., .	-1
			-			-		L			BEDROCK	Good Ou	ality Hard	Slightly	West	hered	gray/white,
		30 to 35	2	60	59	С											vein (34-35 ft)
							RQE) = 47". I	/60" = 7	8.3%							· · · ·
			 					 				Core	Times (mi	ivit). 4.7,	, J, J. I	i, U.O, I	Ľ
			 					 									
		-	 														
		sing	 		pth		NOTE				augers advanced f						
	ze	From To		arth		ock				-	5 feet. Driller increa		• ·				
١	W	0 25	25		15					,	Boring completed v	vith 2" PV	C , grout b	ackfill, an	nd a ro	badway	
			No.	of Soi	l Sam	ples		prote	ctive co	over.							
				Ç	9												
							-	-		-	be gradual. Water	level					ole No. B-3
				-				L 1'			ue to other factors.					0	neet 1 of 2

REVISION DESCRIPTION		
EV. DATE		SIGNATURE/ BLOCK:
	DESIGNER/DRAFTER: CHECKED BY:	

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LOG			Hole No.: B-3											
					ion: No		able							
					Availa									
ation Micha	aele \//	av	rile N	o.: 0(038-02	2.00								
		ay	N. Coordinate: 643229.76											
Boring Cont	ractors	, Inc.			ate: 825									
Auger		Mud	Sam	pler		Cor	e Barre							
			Х					Х						
Hollow			SS	UP	B (s)	B (d)	NX (s)	NX (d)						
			1.375		Turne	Х	Diama	a d						
			140 30		Type of Bit	^	Diamor Carbide							
			00		or Bit		ourbia	-						
STRA	TA		FIELD		ITIFICA		F SOIL,							
CHANC	GE:		REM	ARKS	(INCL.	COLOR	, LOSS							
DEPT	Ή		С	F WA	SH WA	TER, E	TC.)							
		Excellent	Quality	Hard	Slightly	(Weath	ered are	w/brown						
			-				_	36-39 ft)						
BEDRO	CK				: 7, 10,			^ /						
				,	-									
			END O	F EXP	LORAT	ION AT	40 FEE	Г						
]														
be gradual.	Water	evel					Hole N	o. B-3						
ue to other fa	actors.						Sheet 2	2 of 2						
	_	_	_	_	_	_	_	_						

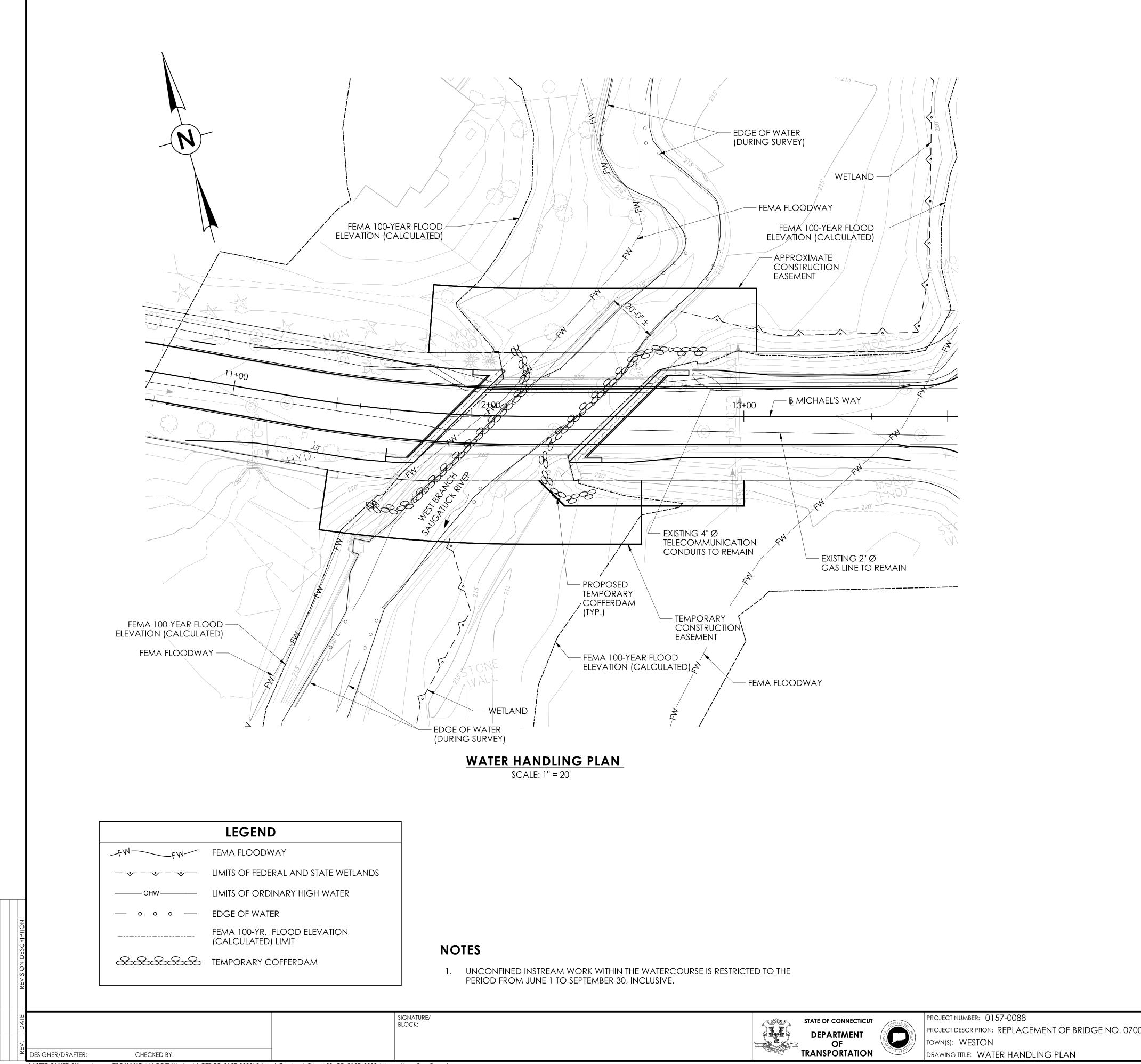
									CONNDOT	BORIN	G LOG		Hole No.: B-4
		Dow		rth Consulting, L									Line & Station: Not Available
				Church Street uck, CT_06770					t. John Barringer				Offset: Not Available File No.: 0038-022.00
			Haagan							l Rehabil	itation Michaels	Way	
			Tel: (2	03) 683-4155					NUMBER: 15		Paring Contract	ora Ina	N. Coordinate: 643212.34 E. Coordinate: 825695.11
		Surfac	ce Elevat	tion: 224.0		BURIN			Casing		Boring Contract	Mud	Sampler Core Barrel
			Started:			Utilize			Х	Х		,	X X
			Finished:			Туре		BW	NW HW P	-	l Hollow		SS UP B (s) B (d) NX (s) NX (d)
		@	12	ater Observations ft river level		Size I.D Hamme			4 300	4			1.375 Type X Diamond
		@		ft after		Fall (in)	<i>, ,</i>		24	-			30 of Bit Carbide
			Casing	S	SAMP				BLOW		075.474		
		E	blows per	DEPTH		PEN.	REC		PER 6 IN ON SAM		STRATA CHANGE:		FIELD IDENTIFICATION OF SOIL, REMARKS (INCL. COLOR, LOSS
		Т	P			in		Туре		12 18			OF WASH WATER, ETC.)
		н	foot	FROM - TO					6 12	18 24			
			2 5	1 to 3	1	24	7	SS	14 9	9 10	PAVEMENT		alt dense, brown, C-F GRAVEL and C-F SAND,
			9	110 5	-	24	/	33	14 9	9 10	1	little S	
			16	3 to 5	2	24	9	SS	13 19 4	44 15]	-	nse, brown, C-F GRAVEL, some c-f Sand,
		5	21	I			_				FILL	little S Medium (Silt dense, dark brown, C-F SAND, little f Gravel,
		-	13 10	5 to 7	3	24	<u>ن</u>	55	13 13	9 (little S	
			12	7 to 9	4	24	5	SS	10 11	8 8	1		dense, dark brown, C-F SAND and M-F
			23									GRA	VEL, little Silt
		10	229	10 1- 10 1				66	75/0"		BOULDER	Very der	nse, gray/white, C-F GRAVEL fragments, with
			26 24	10 to 10.1	5	2	1	55	75/2"		BUULDER		les and boulders
			55								TILL		
			58	13 to 14	6	12	6	SS	38 50 50	0/0"			nse, gray/brown, C-F GRAVEL and C-F SAND,
		15	88 239	15 to 15.1	7	1	0	99	50/1"			little S	Silt
			107	10 10 10.1	1			00	00/1		BOULDERS/		
			151								WEATHERED	D	
			163								ROCK (inferred	1)	
		20	156	20 to 25	1	60	57	С	REC = 57"/60	0" = 95%		 Fair Qua	ality, Hard, Moderately to Slightly Weathered,
				201020			01		RQD = 43.5"/60		6		jointed, gray/white, GRANITIC GNEISS
												[Core	e Times (min/ft): 6, 7, 6, 6.5, 8]
											4		
		25		25 to 30	2	60	60	С	REC = 60''/60)" = 100%	-	Fair Qua	ality, Hard, Slightly Weathered, close jointed
									RQD = 44.5"/6				white, GRANITIC GNEISS with QUARTZITE
											BEDROCK		28.2-29 feet. Times (min/ft): 4, 8, 6.5, 5, 5]
		30									-	[Cole	Finnes (min/nt): 4, 6, 6.5, 5, 5]
		- 50		30 to 35	3	60	57	С	REC = 57"/60	0" = 95%	-	Fair Qua	ality, Hard, Moderately to Slightly Weathered,
									RQD = 40"/60	" = 66.7%]	very c	close to close jointed, gray/white, GRANITIC
											4		ISS with Pegmatite vein e Times (min/ft): 3.5, 3, 3, 2.5, 3]
		35				$\left \right $					1		END OF EXPLORATION AT 35 FEET
				sing		Dep							feet, casing then driven from 0-20 feet.
				From To		arth	Ro						ng down pressure between 21-22 feet,
			HW	0 20.5	20 No.	of Soil	15 Samr				•		ing water. Driller re-seats casing at 2" PVC , grout backfill, and a roadway
						7			protective	e cover.			
				es represent approx						-	-		Hole No. B-4
		reading	gs nave be	een made at times	and ur	nder cor	naitions	s state	a, fluctuations m	ay occur	aue to other factor	5.	Sheet 1 of 1
SCRIP													
								1					
DATE	SIGNATURE/ BLOCK:							6	117 117				NUMBER: 0157-0088 DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07
										EPARTME OF		2	WESTON
	DESIGNER/DRAFTER: CHECKED BY:								TRAN	NSPORTA	TION OF TRANS	DRAWING	GTITLE: BORING LOGS (4 OF 4)

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	DRAWING NO.
OVER WEST BRANCH SAUGATUCK RIVER	S-09
	SHEET NO.
	04.09



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SUGGESTED CONSTRUCTION SEQUENCE:

- PROVIDED.
- ALL WATER HANDLING.

AVERAG AVERAG 2 - YEAF TEMPO TEMPOR

PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY OVER WEST BRANCH SAUGATUCK RIVER

WATER HANDLING NOTES:

1. THE CONTRACTOR SHALL DESIGN THE TEMPORARY COFFERDAMS AND SUBMIT MEANS AND METHODS OF HANDLING WATER TO THE ENGINEER FOR APPROVAL.

2. THE COST OF THE TEMPORARY COFFERDAMS, TEMPORARY BYPASS PIPES, TEMPORARY DRAINAGE PIPES, STREAM DIVERSION STRUCTURES, PUMPS, AND ANY OTHER NECESSARY INCIDENTAL APPURTENANCES REQUIRED TO HANDLE THE WATER SHALL BE INCLUDED IN THE COST OF THE ITEM "HANDLING WATER".

3. ALL WATER PUMPED FROM WITHIN THE TEMPORARY COFFERDAMS TO BE HANDLED THROUGH THE TEMPORARY SEDIMENTATION BASIN. THE SMALL TEMPORARY SEDIMENTATION BASIN AND PUMP(S) SHALL BE SIZED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL. COST OF TEMPORARY SEDIMENTATION BASIN SHALL BE INCLUDED IN THE COST OF ITEM "HANDLING WATER".

4. TOP OF TEMPORARY WATER HANDLING COFFERDAM SHALL BE MINIMUM EL. 217.55.

1. IMPLEMENT THE DETOUR (SEE DETOUR PLAN).

2. INSTALL SEDIMENTATION CONTROL SYSTEM AND CLEAR AND GRUB SITE AS REQUIRED.

3. INSTALL TEMPORARY COFFERDAMS AND WATER HANDLING.

4. INSTALL TEMPORARY UTILITY SUPPORT SYSTEM. UTILITIES ARE TO REMAIN IN PLACE FOR THE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS DURING DEMOLITION AND BRIDGE CONSTRUCTION NOT TO DAMAGE EXISTING UTILITIES.

5. EXCAVATE AND DEMOLISH EXISTING BRIDGE STRUCTURE, WHICH INCLUDES COMPLETE REMOVAL OF THE EXISTING SUPERSTRUCTURE, SUSBTRUCTURES, AND STEEL PILES.

6. CONSTRUCT SEDIMENTATION BASINS AND DEWATER SITE AS REQUIRED.

7. INSTALL MICROPILES AND PERFORM MICROPILE TESTS AS REQUIRED.

8. CONSTRUCT PROPOSED ABUTMENT PILE CAPS AND WINGWALLS TO ELEVATIONS SHOWN.

9. ESTABLISH GRADES IN THE STREAMBED AND ALONG BANKS. NOTE THAT THE ABUTMENTS ARE NOT TO BE BACKFILLED UNTIL THE DECK CONSTRUCITON IS COMPLETE AND HAS CURED. STOCKPILE MATERIAL UNDER THE BRIDGE AS REQUIRED PRIOR TO THE SUPERSTRUCTURE INSTALLATION.

10. INSTALL STRUCTURAL STEEL PLATE GIRDERS AND DIAPHRAGMS.

11. TRANSFER UTILITIES FROM THE TEMPORARY UTILITY SUPPORT STRUCTURES TO THEIR PERMANENT LOCATIONS. REMOVE TEMPORARY UTILITY SUPPORT STRUCTURES.

12. CONSTRUCT DECK, END DIAPHRAGMS, AND WINGWALLS PER THE DECK PLACEMENT SEQUENCE

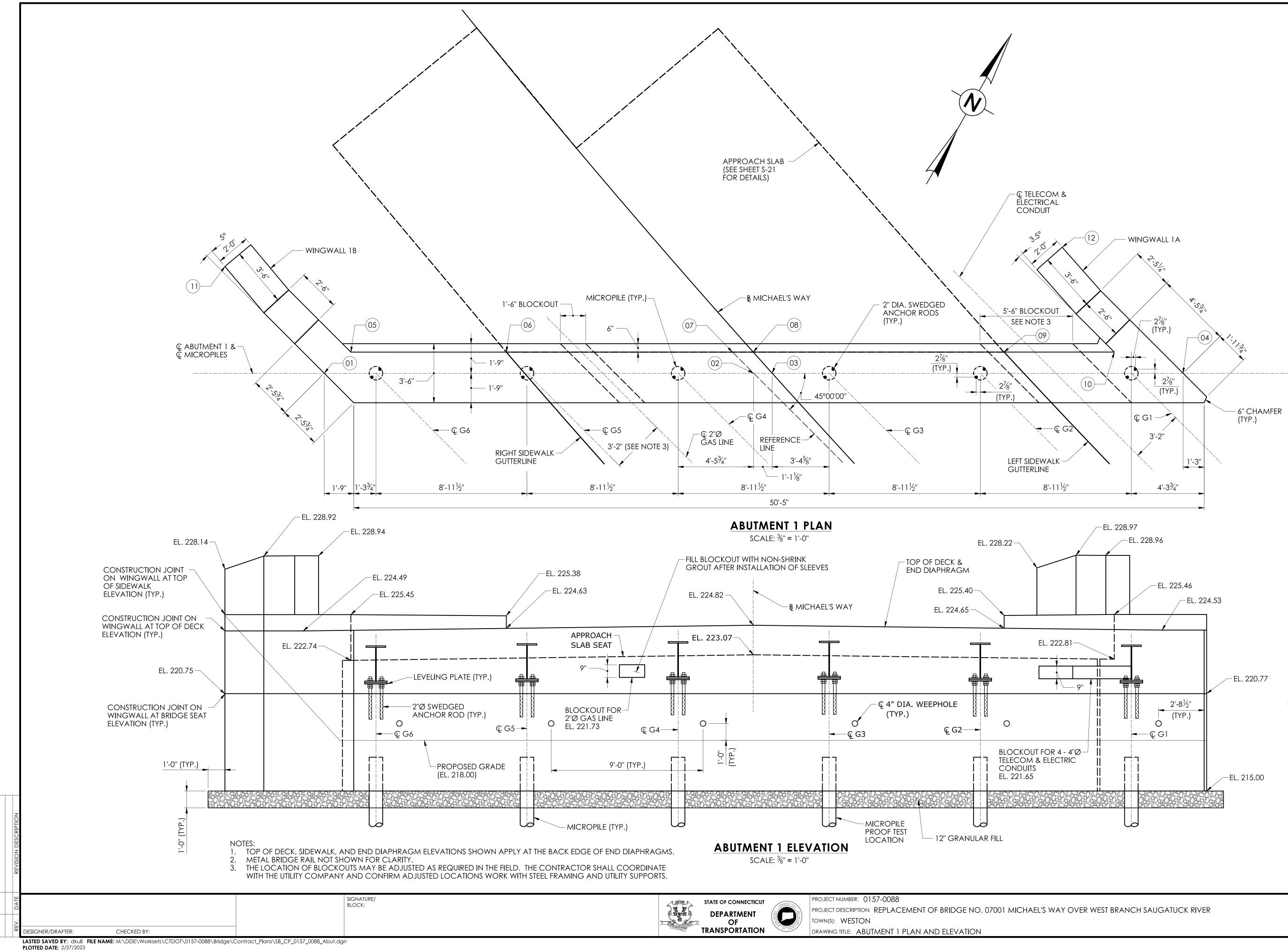
13. BACKFILL ABUTMENTS AND FINALIZE GRADES IN THE STREAM BED AND ALONG BANKS. REMOVE

14. CONSTRUCT SIDEWALKS, END BARRIERS, AND APPROACH SLABS.

15. INSTALL METAL BRIDGE RAIL - FOUR RAIL.

16. FINALIZE ROADWAY ITEMS AND OPEN BRIDGE TO TRAFFIC.

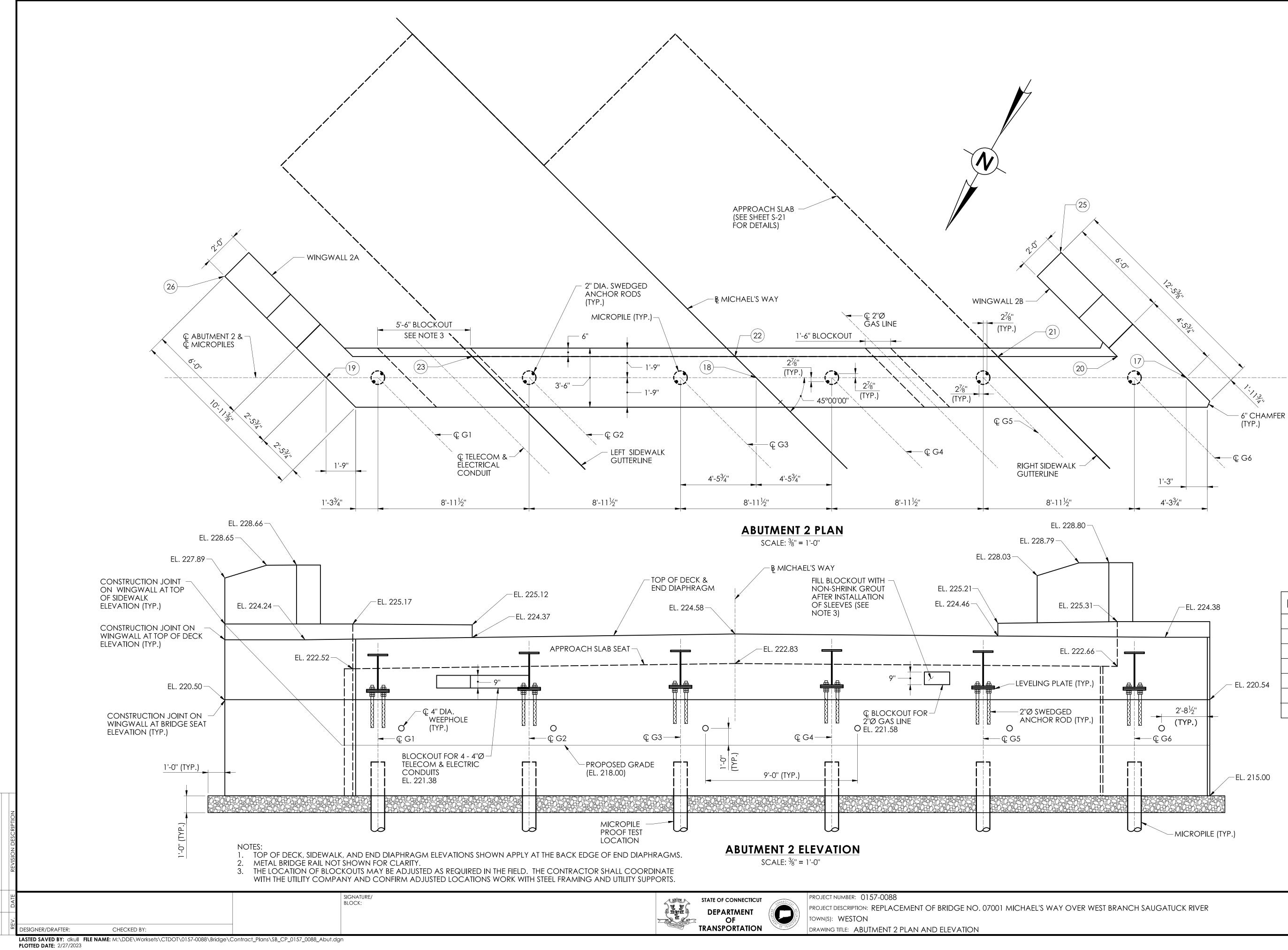
EMPORARY HYDRAULIC SUMMARY	DATA
AGE DAILY FLOW (ADF)	12.0 CFS
AGE SPRING FLOW (ASF)	23.0 CFS
AR DESIGN FREQUENCY	564 CFS
DRARY DESIGN SURFACE ELEVATION (UPSTREAM)	216.55 FEET
DRARY DESIGN SURFACE ELEVATION (DOWNSTREAM)	214.10 FEET



LEVELING P	LATE TABLE			
PLATE	TOP ELEV.			
G1	221.48			
G2	221.60			
G3	221.71			
G4	221.68			
G5	221.56			
G6	221.43			

	DRAWING NO.
OVER WEST BRANCH SAUGATUCK RIVER	S-11
	SHEET NO.
	04.11

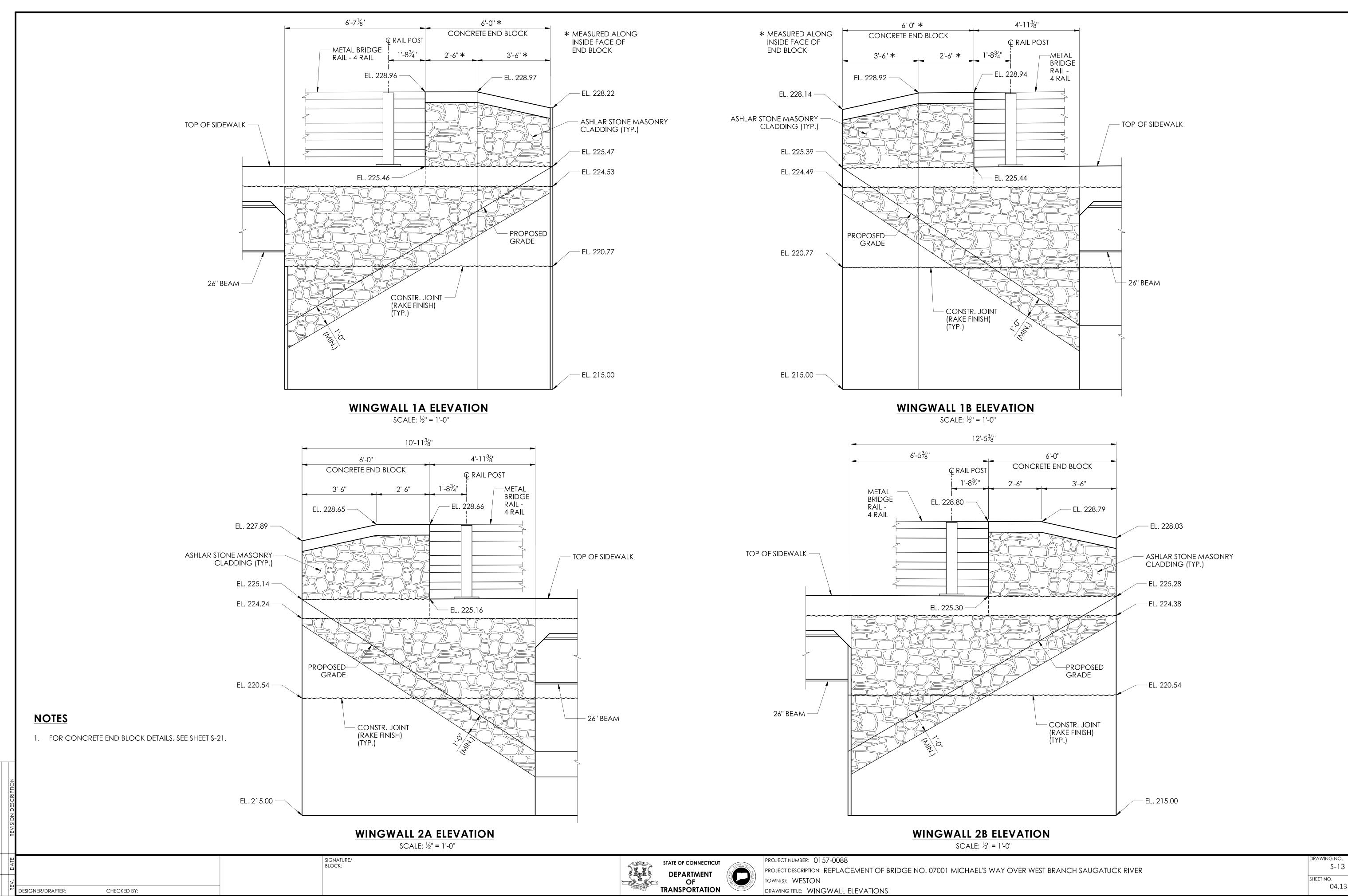
LEVELING P	LATE TABLE				
PLATE	TOP ELEV.				
G1	221.48				
G2	221.60 221.71				
G3					
G4	221.68				
G5	221.56				
G6	221.43				



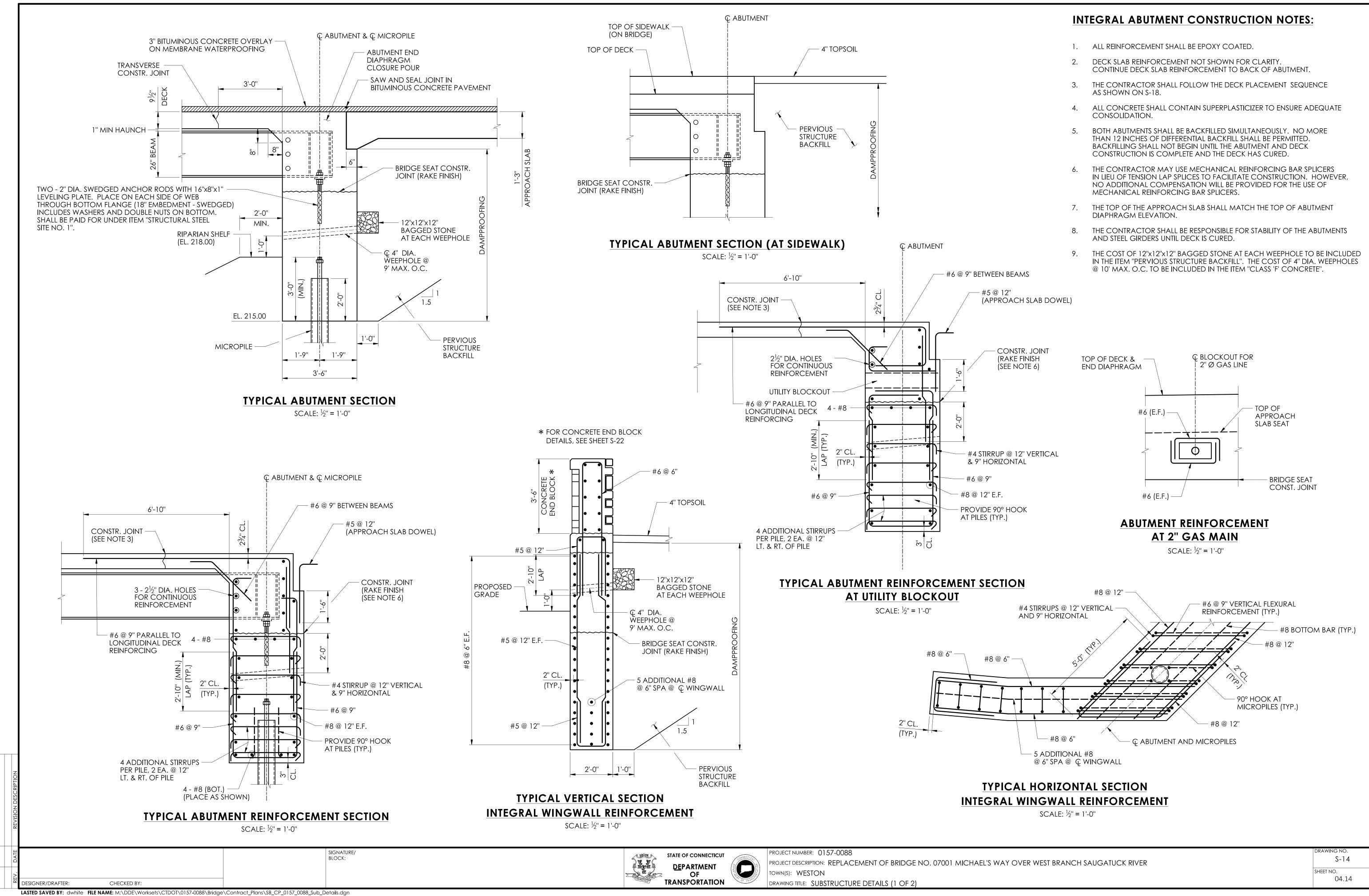
LEVELING PLATE TABLE								
PLATE	TOP ELEV.							
G1	221.21							
G2	221.33							
G3	221.45							
G4	221.48							
G5	221.41							
G6	221.34							

AWING NC S-12

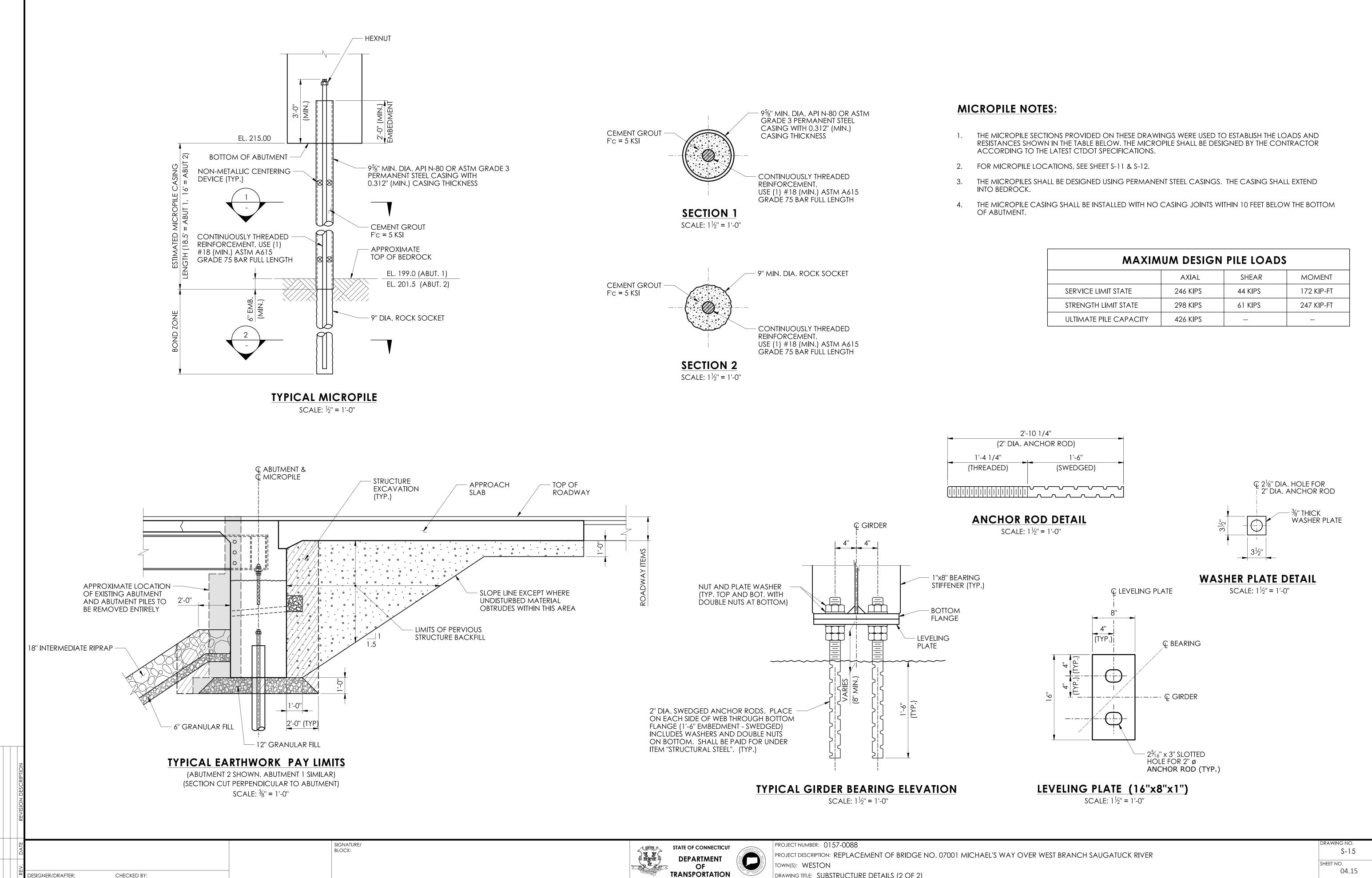
SHEET NO. 04.12



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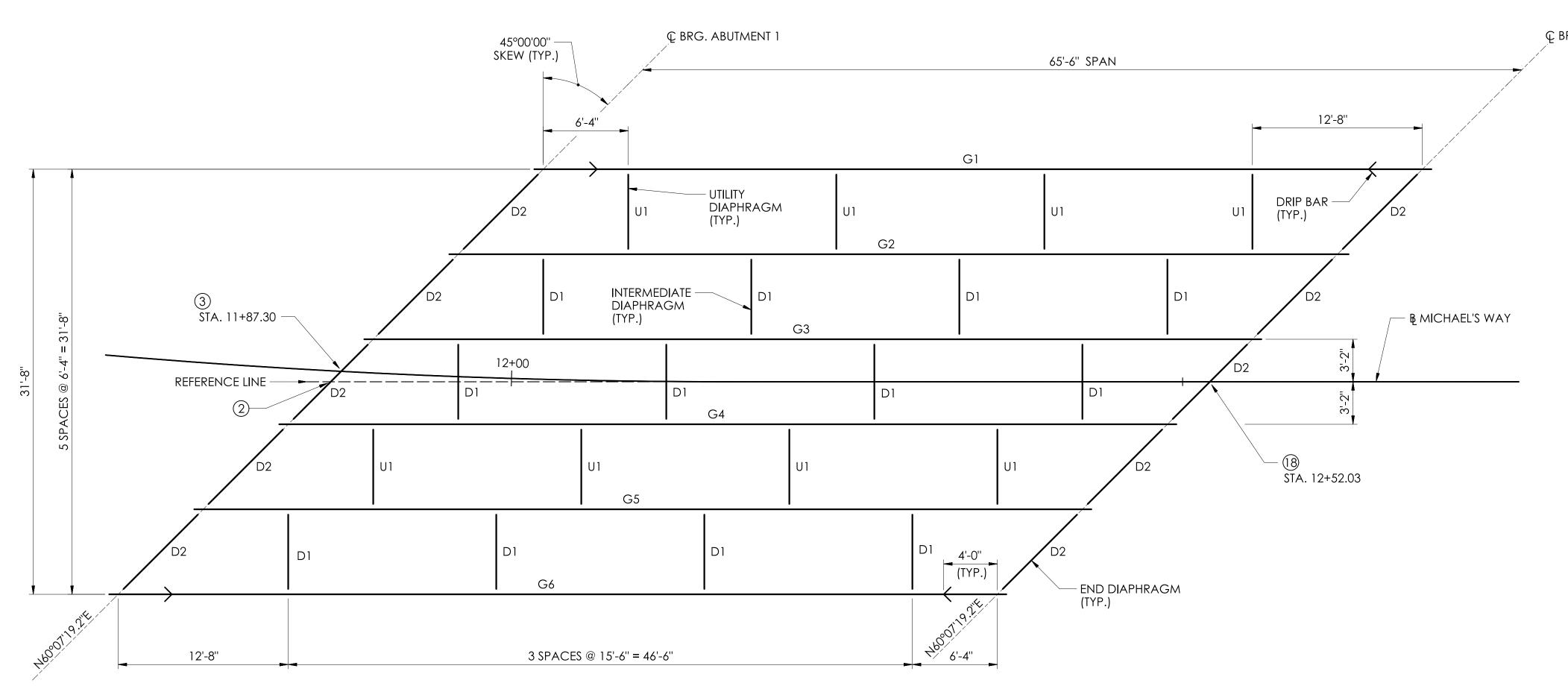
PLOTTED DATE: 2/27/2023



LASTED SAVED BY: dkull FILE NAME: M:\DDE\Worksets\CTDOT\0157-0088\Bridge\Contract_Plans\SB_CP_0157_0088_Sub_Details.dgn **PLOTTED DATE: 2/27/2023**

		PROJECT NUMBER: 0157-0088
		PROJECT DESCRIPTION: REPLACEMENT OF BRIDGE NO. 07001 MICHAEL'S WAY OVER
OF	ARTINE CO	TOWN(S): WESTON
TRANSPORTATION	OF TRANS	DRAWING TITLE: SUBSTRUCTURE DETAILS (2 OF 2)

MAXIMUM DESIGN PILE LOADS									
	AXIAL	SHEAR	MOMENT						
SERVICE LIMIT STATE	246 KIPS	44 KIPS	172 KIP-FT						
STRENGTH LIMIT STATE	298 KIPS	61 KIPS	247 KIP-FT						
ULTIMATE PILE CAPACITY	426 KIPS								





SCALE: ³/₁₆" = 1'-0"

	CAMBER TABLE (INCHES)												
GIRDER MARK CL BRG. ABUT. 1 0.10 L 0.20 L 0.30 L 0.40 L 0.50 L 0.60 L 0.70 L 0.80 L 0.90 L CL BRG. ABUT. 1													
	STRUCTURAL STEEL DEFLECTION	0.00	0.14	0.26	0.36	0.42	0.44	0.42	0.36	0.26	0.14	0.00	
-	ADDITIONAL DEAD LOAD DEFLECTION	0.00	0.61	1.15	1.57	1.84	1.93	1.84	1.57	1.15	0.61	0.00	
	COMPOSITE DEAD LOAD DEFLECTION	0.00	0.17	0.32	0.43	0.51	0.53	0.51	0.43	0.32	0.17	0.00	
G1 & G6	TOTAL DEAD LOAD CAMBER	0.00	0.91	1.72	2.36	2.76	2.90	2.76	2.36	1.72	0.91	0.00	
-	VERTICAL CURVE ORDINATE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	EXTRA CAMBER	0.00	0.13	0.26	0.39	0.52	0.66	0.52	0.39	0.26	0.13	0.00	
	TOTAL CAMBER	0.00	1.95	3.71	5.11	6.05	6.46	6.05	5.11	3.71	1.95	0.00	
	STRUCTURAL STEEL DEFLECTION	0.00	0.14	0.26	0.36	0.42	0.44	0.42	0.36	0.26	0.14	0.00	
-	ADDITIONAL DEAD LOAD DEFLECTION	0.00	0.61	1.15	1.57	1.84	1.93	1.84	1.57	1.15	0.61	0.00	
	COMPOSITE DEAD LOAD DEFLECTION	0.00	0.17	0.32	0.43	0.51	0.53	0.51	0.43	0.32	0.17	0.00	
G2-G4	TOTAL DEAD LOAD CAMBER	0.00	0.91	1.72	2.36	2.76	2.90	2.76	2.36	1.72	0.91	0.00	
	VERTICAL CURVE ORDINATE	0.00	0.14	0.13	0.09	0.07	0.06	0.05	0.03	0.02	0.01	0.00	
	EXTRA CAMBER	0.00	0.00	0.14	0.30	0.46	0.60	0.48	0.36	0.24	0.12	0.00	
	TOTAL CAMBER	0.00	1.96	3.71	5.11	6.05	6.46	6.05	5.11	3.71	1.95	0.00	

LEGEND

- G# GIRDER NO. #
- (X)WORK POINT
- DRIP BAR

CHECKED BY:

SIGNATURE/ BLOCK:

			REVISION DESCRIPTION	
			DATE	
			REV.	DESIGNER/DRAFTER:

LASTED SAVED BY: cgagne FILE NAME: M:\DDE\Worksets\CTDOT\0157-0088\Bridge\Contract_Plans\SB_CP_0157_0088_FramingPlan.dgn PLOTTED DATE: 2/27/2023

STRUCTURAL STEEL NOTES

- GALVANIZED IN ACCORDANCE WITH ASTM A123.
- EXTRA EXPENSE TO THE STATE.
- BY THE MAGNETIC PARTICLE METHOD.

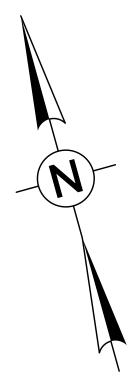
- FABRICATOR INTERMEDIATE (IBR).
- STRUCTURE IS IN BEING.
- A325, TYPE 3, $\frac{7}{8}$ " DIAMETER HIGH STRENGTH BOLTS.





LEASEN

C BRG. ABUTMENT 2



1. ALL STRUCTURAL STEEL (LOW ALLOY) SHALL CONFORM TO AASHTO M270 GRADE 50 T2 AND SHALL BE HOT DIPPED

2. WELDING DETAILS, PROCEDURES AND TESTING METHODS SHALL CONFORM TO THE LATEST ANSI/AASHTO/AWS D1.5 - BRIDGE WELDING CODE, UNLESS OTHERWISE NOTED ON THE PLANS.

3. FIELD SPLICES WILL NOT BE ALLOWED EXCEPT WITH THE WRITTEN PERMISSION OF THE ENGINEER PRIOR TO THE SUBMISSION OF SHOP PLANS. IF ALLOWED, THESE SPLICES SHALL BE DESIGNED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE COST OF THESE SPLICES, INCLUDING THE COST OF DESIGN, SHALL BE AT NO

4. ALL WEB TO FLANGE, WEB TO BEARING STIFFENER AND BEARING STIFFENER TO FLANGE FILLET WELDS SHALL BE INSPECTED

5. MULTIPLE PASS WELDS, INSPECTED BY THE MAGNETIC PARTICLE METHOD, SHALL HAVE EACH PASS OR LAYER INSPECTED AND ACCEPTED BEFORE PROCEEDING TO THE NEXT PASS OR LAYER, AS DETERMINED BY THE ENGINEER.

6. SHOP FLANGE SPLICES SHALL BE LOCATED A MINIMUM OF 6 INCHES FROM WEB SPLICES.

7. FLANGE OR WEB SPLICES SHALL BE LOCATED A MINIMUM OF 6 INCHES FROM STIFFENERS AND CONNECTION PLATES.

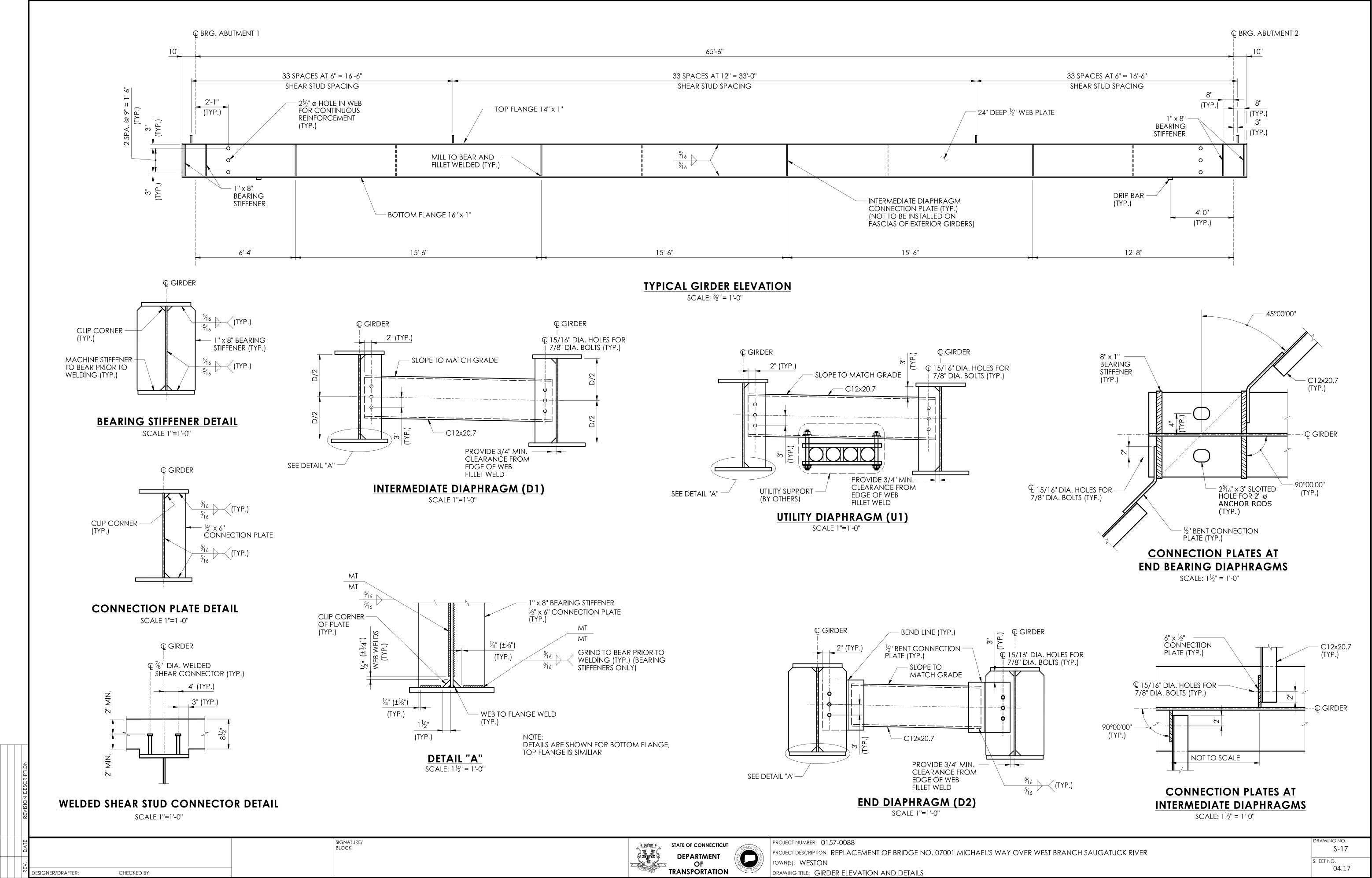
8. ENDS OF BEAMS SHALL BE VERTICAL AFTER THE APPLICATION OF FULL DEAD LOADS.

9. THE STRUCTURAL STEEL FABRICATORS SHALL BE CERTIFIED UNDER THE AISC CERTIFICATION PROGRAM CATEGORY BRIDGE

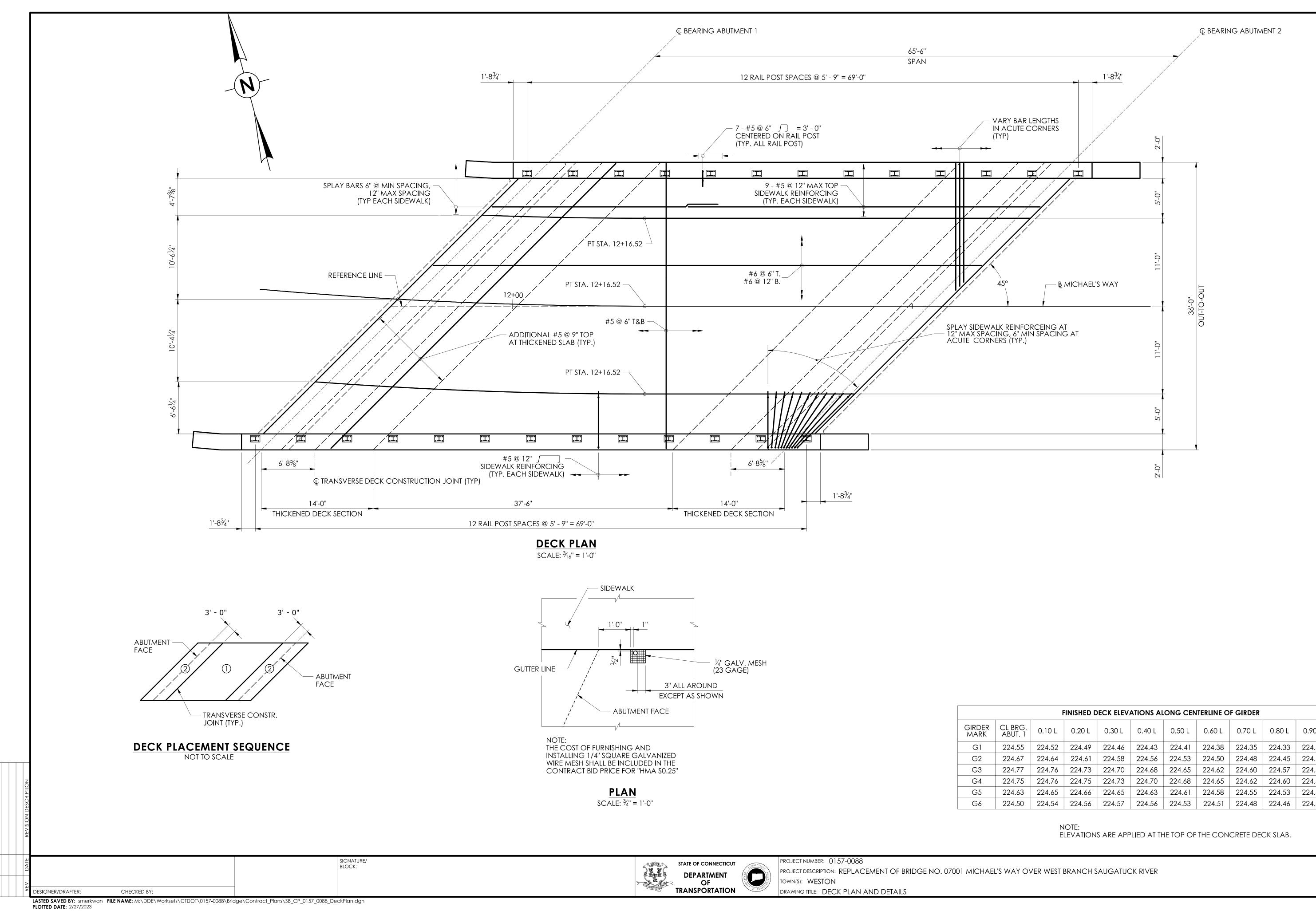
10. THE CONTRACTOR SHALL TAKE THE PROPER PRECAUTIONS TO ENSURE STABILITY OF ALL STRUCTURE ELEMENTS UNTIL THE TOTAL

11. ALL BOLTED CONNECTIONS SHALL BE SLIP-CRITICAL WITH CLASS B FAYING SURFACES AND MADE WITH ASTM

	DRAWING NO.
over west branch saugatuck river	S-16
	Sheet NO.
	04.16



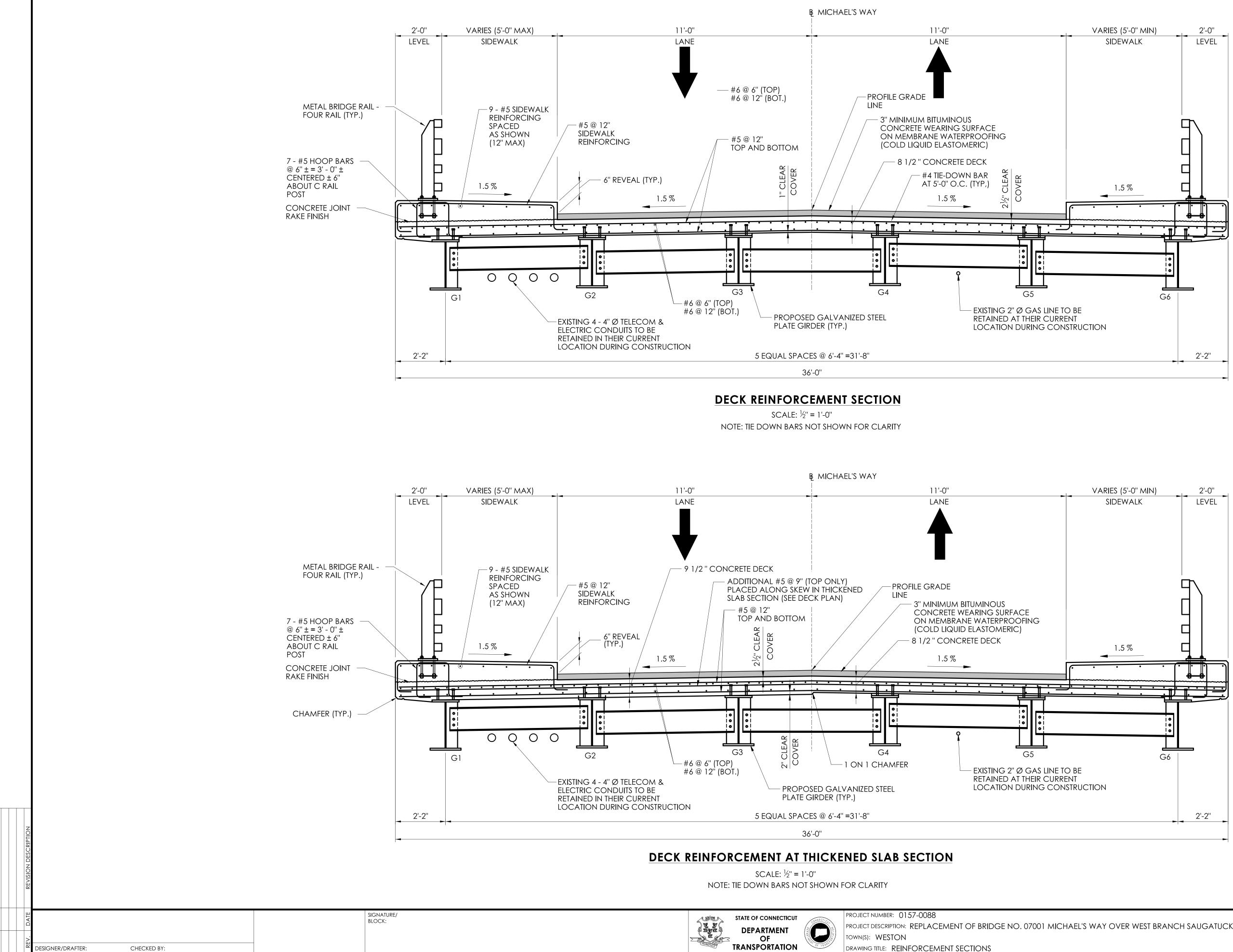
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OPTAIN	TOWN(S): WESTON
TRANS	

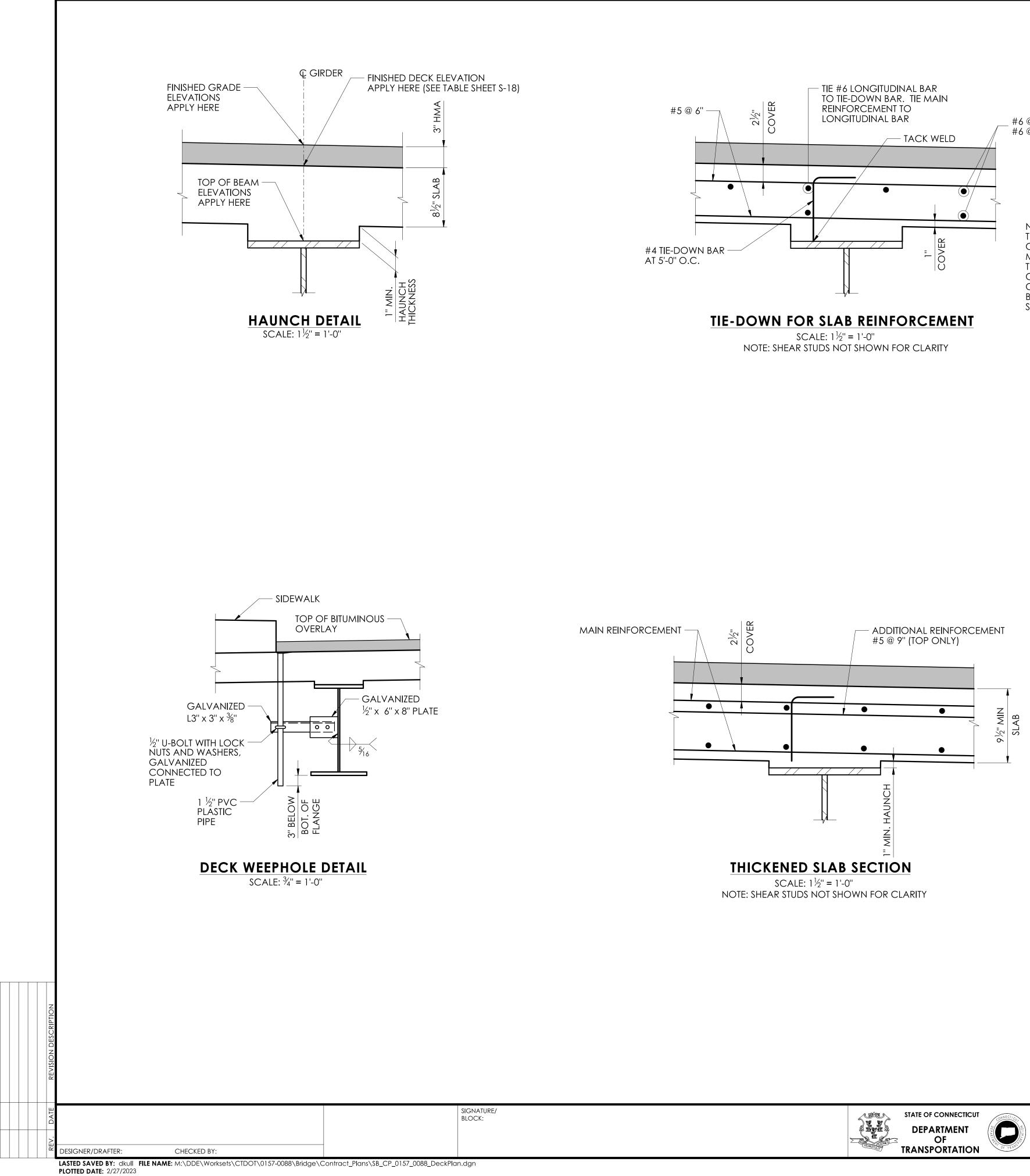
	FINISHED DECK ELEVATIONS ALONG CENTERLINE OF GIRDER												
). 1	0.10 L	0.20 L	0.30 L	0.40 L	0.50 L	0.60 L	0.70 L	0.80 L	0.90 L	CL BRG. ABUT. 2			
5	224.52	224.49	224.46	224.43	224.41	224.38	224.35	224.33	224.30	224.27			
7	224.64	224.61	224.58	224.56	224.53	224.50	224.48	224.45	224.42	224.39			
,	224.76	224.73	224.70	224.68	224.65	224.62	224.60	224.57	224.54	224.52			
5	224.76	224.75	224.73	224.70	224.68	224.65	224.62	224.60	224.57	224.54			
3	224.65	224.66	224.65	224.63	224.61	224.58	224.55	224.53	224.50	224.47			
)	224.54	224.56	224.57	224.56	224.53	224.51	224.48	224.46	224.43	224.40			

	DRAWING NO.
UGATUCK RIVER	S-18
	SHEET NO.
	04.18



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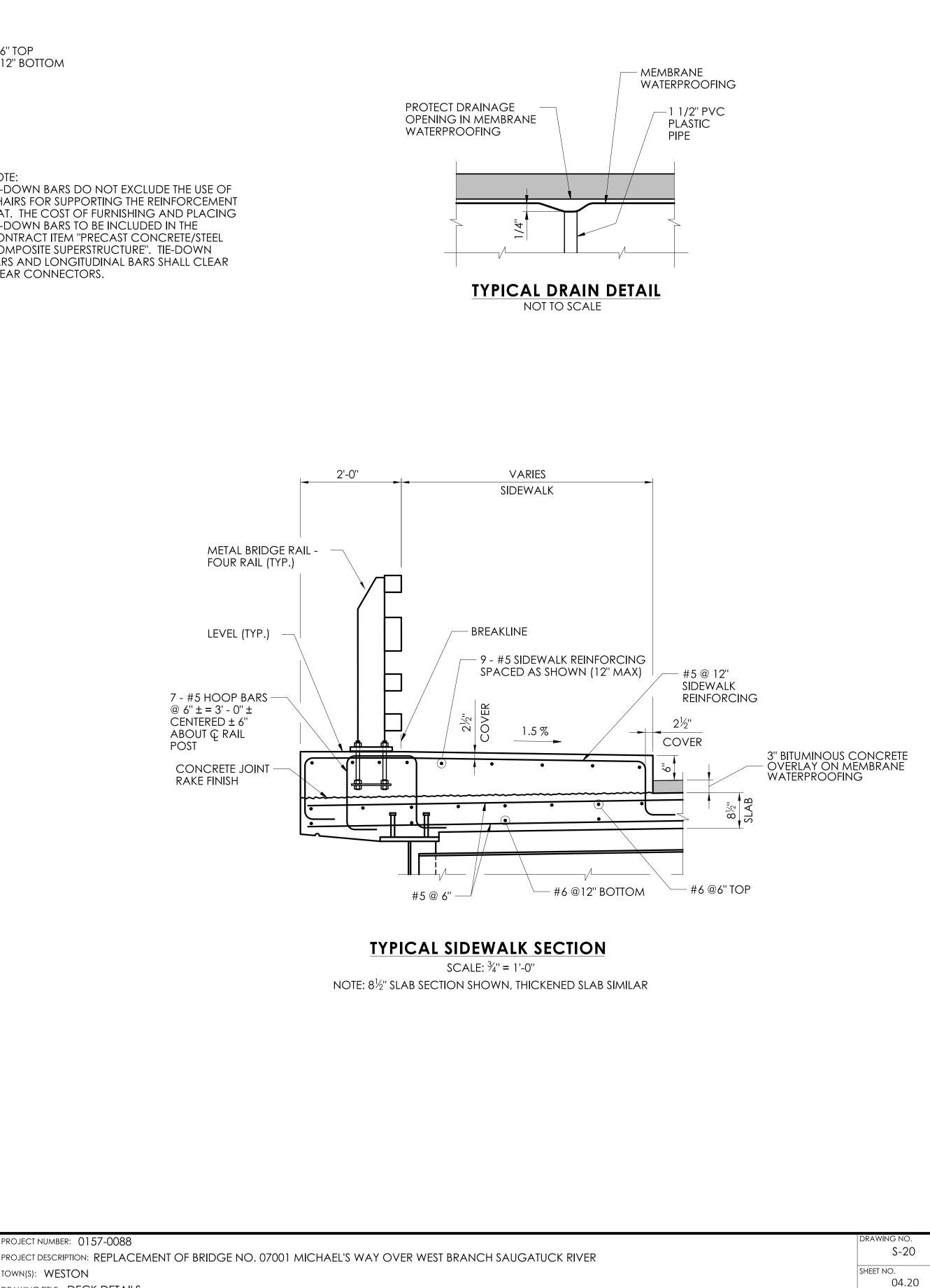
	DRAWING NO.
over west branch saugatuck river	S-19
	SHEET NO.
	04.19



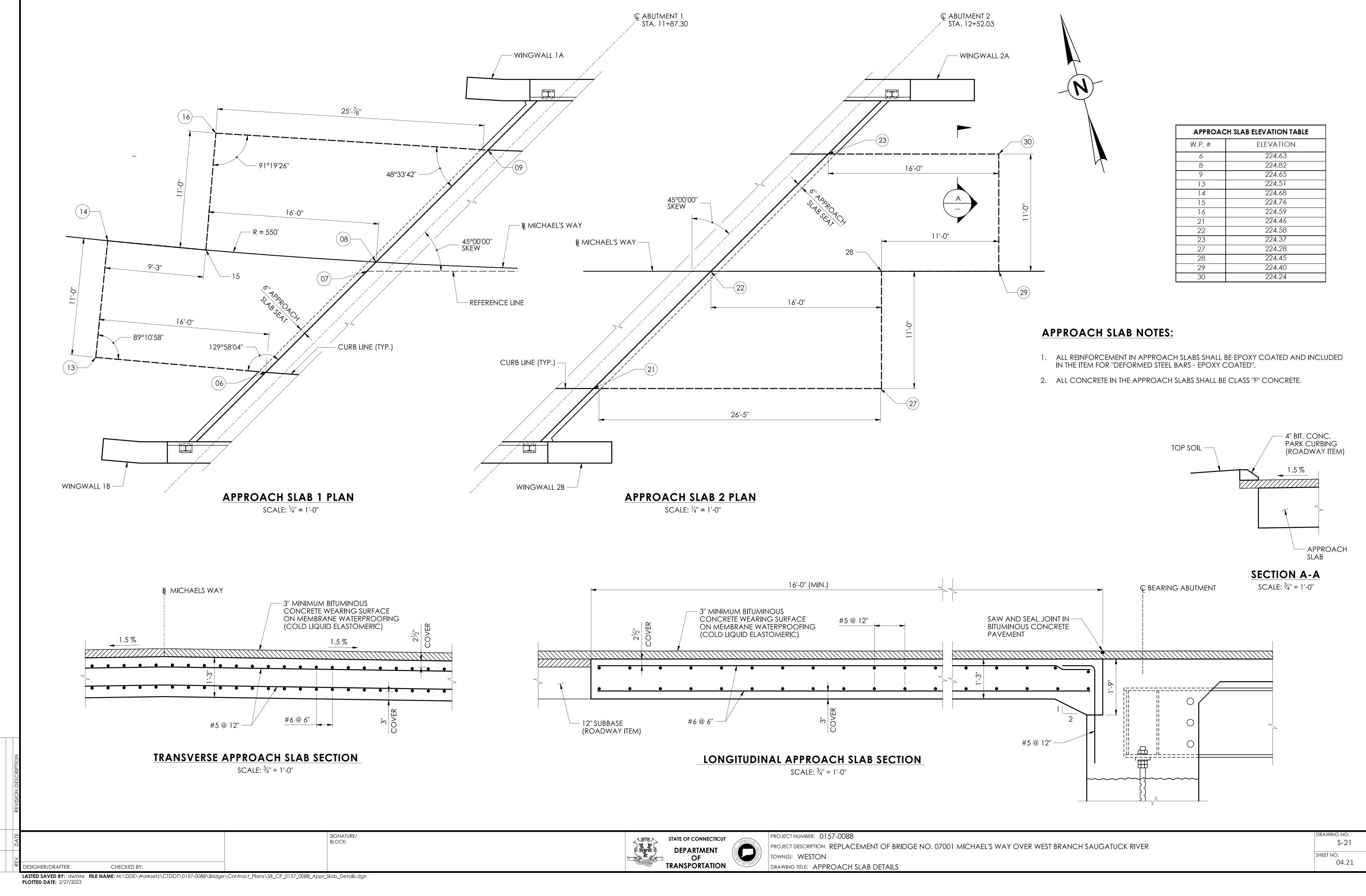
_ #6 @ 6'' TOP #6 @ 12'' BOTTOM

NOTE:

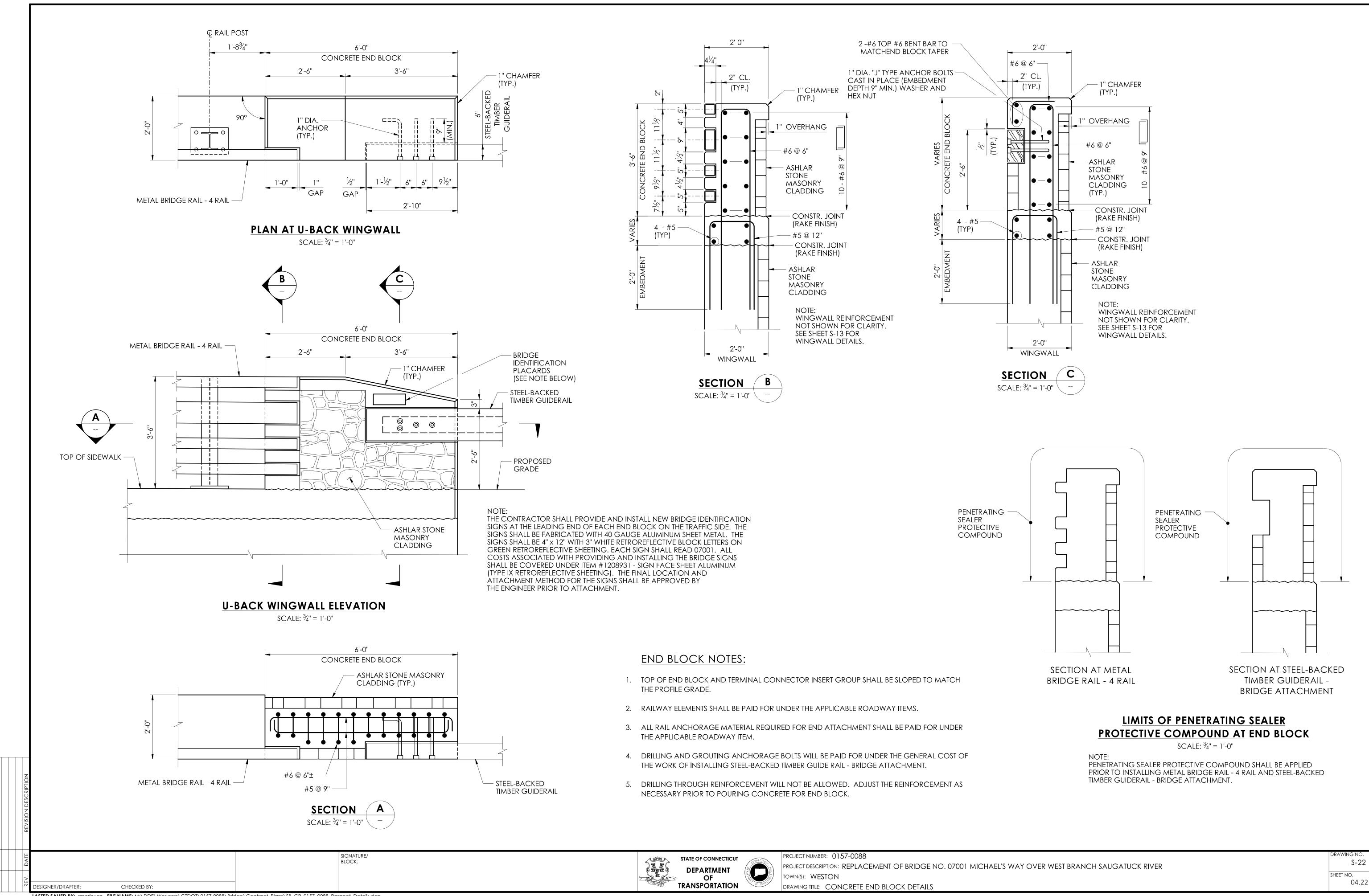
TIE-DOWN BARS DO NOT EXCLUDE THE USE OF CHAIRS FOR SUPPORTING THE REINFORCEMENT MAT. THE COST OF FURNISHING AND PLACING TIE-DOWN BARS TO BE INCLUDED IN THE CONTRACT ITEM "PRECAST CONCRETE/STEEL COMPOSITE SUPERSTRUCTURE". TIE-DOWN BARS AND LONGITUDINAL BARS SHALL CLEAR SHEAR CONNECTORS.



PROJECT NUMBER: 0157-0088 TOWN(S): WESTON DRAWING TITLE: DECK DETAILS



APPROACH SLAB ELEVATION TABLE		
W.P. #	ELEVATION	
6	224.63	
8	224.82	
9	224.65	
13	224.51	
14	224.68	
15	224.76	
16	224.59	
21	224.46	
22	224.58	
23	224.37	
27	224.28	
28	224.45	
29	224.40	
30	224.24	



PLOTTED DATE: 2/27/2023

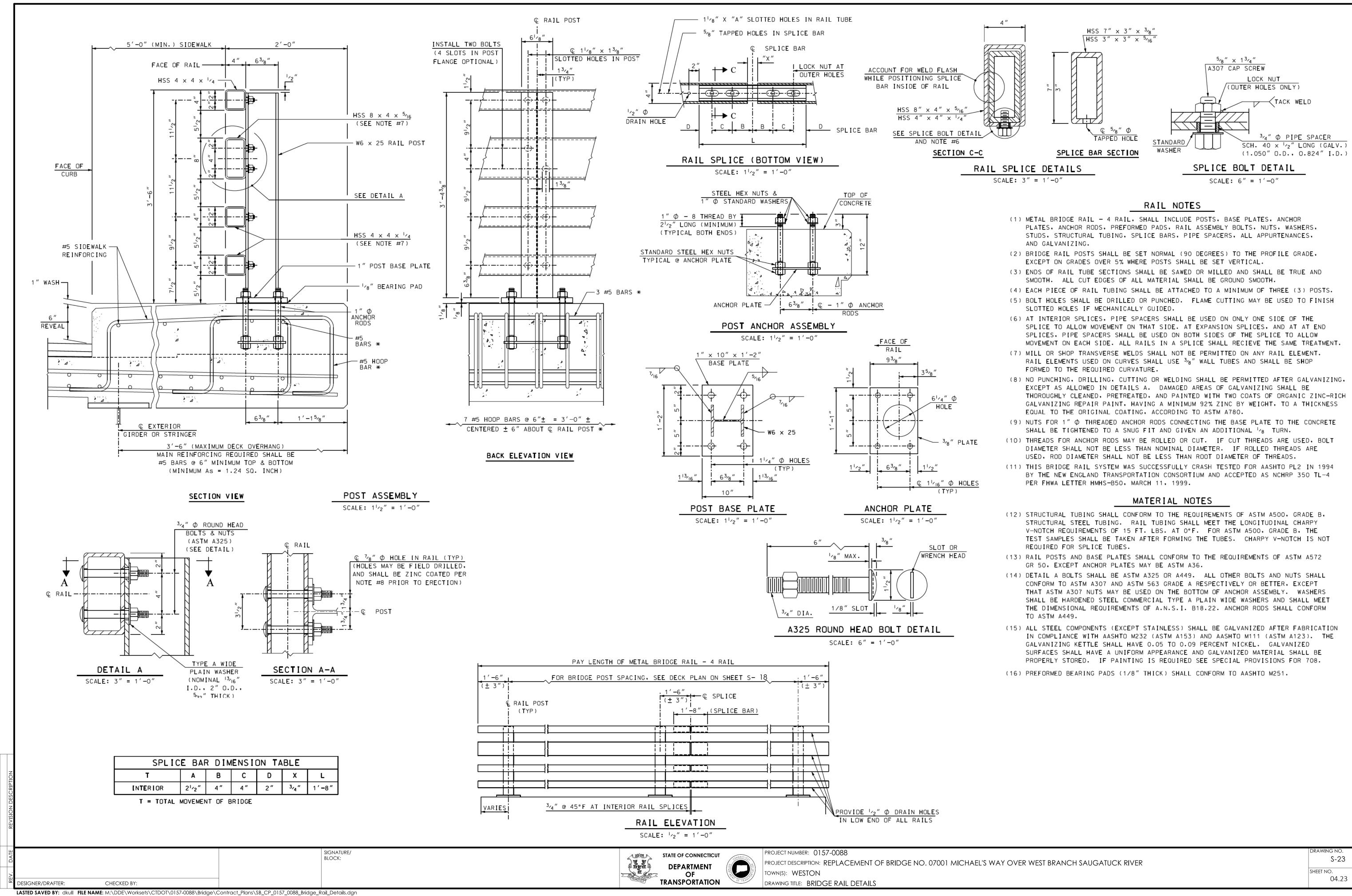
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MBER GUIDERAI	L

L SPE	STATE OF CONNECTICUT
	DEPARTMENT OF TRANSPORTATION
	TRANSPORTATION

04.22



PLOTTED DATE: 2/27/2023