

	INDEX OF SHEETS		
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1	TITLE PAGE	(1)	FOR S
2	INDEX OF SHEETS AND GENERAL NOTES		AT: W Stand
3-4	STANDARD SYMBOLS		
5	SUMMARY OF ROADWAY QUANTITIES	(2)	HIGH THROU
6	TYPICAL SECTIONS		AND R
7	CONSTRUCTION DETAILS		ON RE EXTRE
8-9	EAGRT PLATFORM DETAILS		EQUIP
10	TERMINAL UNIT DELINEATION DETAILS		MODIF
11	DRIVEWAY DETAILS		LEVEL OR AS
	BRIDGE PLANS	(4)	EXIST
12	GENERAL PLAN AND ELEVATION		DETER BE RE
13-14	BRIDGE NOTES AND SUMMARY OF QUANTITIES		MARKE
15	SITE PLAN AND PROFILE		THE C
16	BORING PLAN	(5)	NO EX
17-19	BORING LOGS		WITHO
20-22	ABUTMENT A DETAILS		
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26	EXISTING PIER REHABILITATION		
27	PIER JACKET REINFORCING		
28	FRAMING PLAN		
29	FLOOR BEAM DETAILS		
30	STRINGER DETAILS		
31	LATERAL BRACING DETAILS		
32	STEEL REPAIR DETAILS		
33	SCUPPER DETAILS		
34	BRIDGE TYPICAL SECTIONS		
35	BOTTOM OF SLAB ELEVATIONS		
36	DECK PLAN		
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38-40	DECK REINFORCING		
41-42	PIER STRIP SEAL EXPANSION JOINT		
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45	BRIDGE RAIL LAYOUT		
46	T3 STEEL BRIDGE RAIL		
47	T3 STEEL BRIDGE APPROACH RAIL (STEEL POSTS)		
48-49	REINFORCING SCHEDULE		
50-51	ROADWAY PLANS GENERAL PLANS		
52	EAST THETFORD ROAD PROFILE		
52	CONSTRUCTION ACCESS AND RIGHT-OF-WAY PLAN		
53 54-55	PAVEMENT MARKING AND SIGNING PLANS		
56	SIGN TEXT LAYOUT		
56 57-57A	TEMPORARY SIGN TEXT LAYOUT		
57-57A 58-59			
20-22	DETOUR PLANS		

# GENERAL NOTES

TANDARD PLANS, SEE DEPARTMENT OF TRANSPORTATION WEBSITE WW.NH.GOV/DOT/ORG/PROJECTDEVELOPMENT/HIGHWAYDESIGN/ ARDPLANS/INDEX.HTM.

TENSION OVERHEAD TRANSMISSION LINES ARE LOCATED CHOUT THE PROJECT WITH CROSSINGS AT VARIOUS LOCATIONS UNNING ALONG THE ROAD THROUGHOUT THE PROJECT EVEN GULAR POLES. THE CONTRACTOR IS ADVISED THAT ME CAUTION WILL BE REQUIRED IN THE OPERATION OF MENT, ESPECIALLY CRANES AND PILE DRIVING EQUIPMENT.

SUPERELEVATION ON EXISTING CURVES BY THE USE OF A ING COURSE TO THE RATES INDICATED ON THE PLANS ORDERED.

ING DELINEATORS AND WITNESS MARKERS THAT ARE REMOVED AND MINED BY THE ENGINEER TO BE IN ACCEPTABLE CONDITION SHALL SET (SUBSIDIARY). ADDITIONAL DELINEATORS AND WITNESS RS ORDERED WILL BE PAID UNDER THE APPROPRIATE ITEMS OF ONTRACT.

ISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED OUT FIRST MAKING PROVISIONS FOR RELOCATION.

6	PERFORM A	4LI	L١	WC
$\bigcirc$	OTHERWISE	Ξ	SH	Ĵ۷

(7) REMOVE UNPROTECTED PROJECT MARKERS (SUBSIDIARY).

QUANTITIES FOR EMBANKMENT AND EXCAVATION FOR SLOPE ROUNDINGS (9) AS SHOWN ON THE TYPICALS HAVE NOT BEEN CALCULATED AND ARE NOT INCLUDED IN THE QUANTITY SUMMARIES, AND ARE CONSIDERED SUBSIDIARY TO THE APPROPRIATE 203 ITEMS.

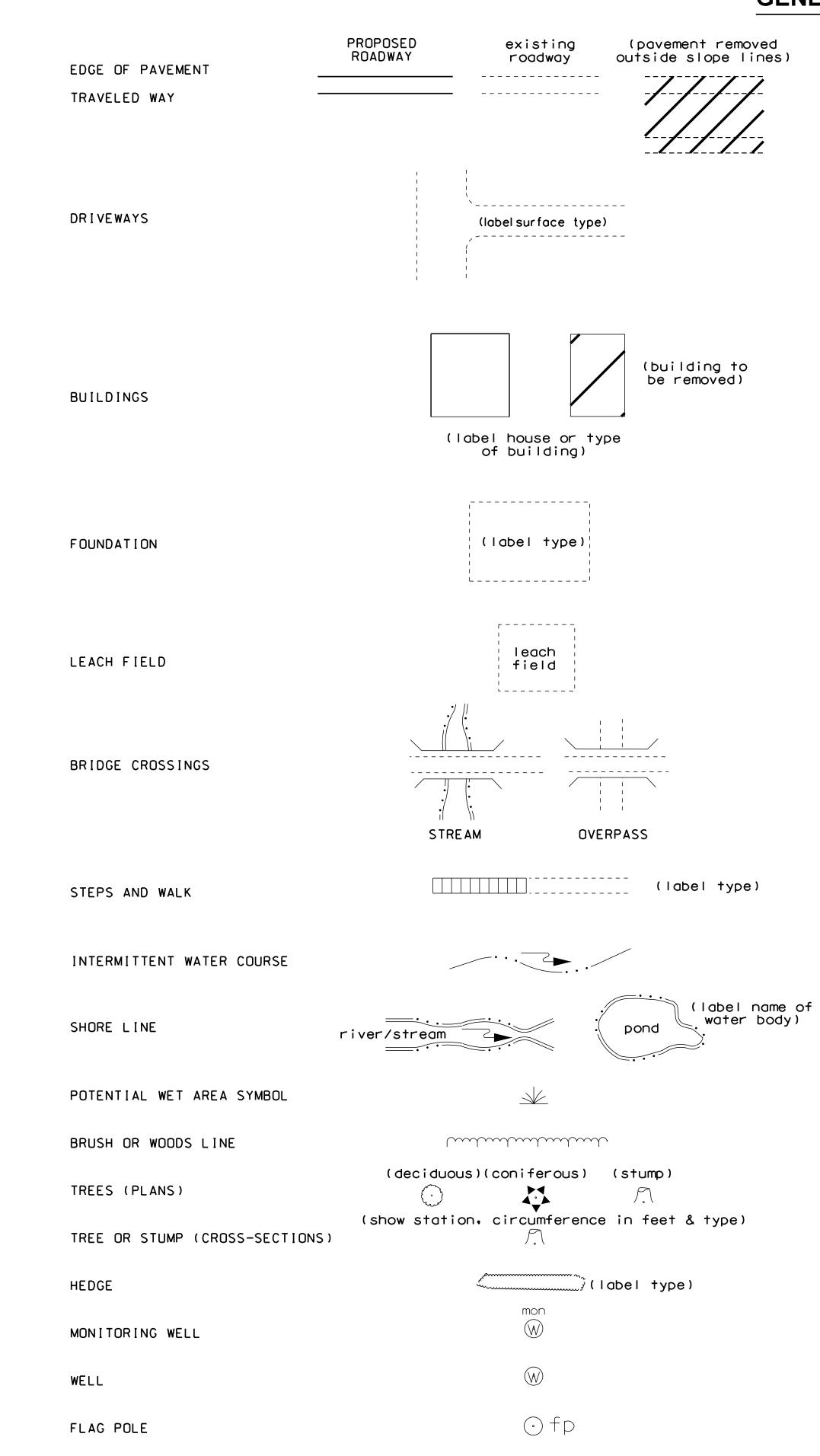
						GENE DN TH		-			
	2	(J	4	5	6	7	8	9	$\bigcirc$	$\bigcirc$	$\bigcirc$
$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$						

VORK WITHIN THE EXISTING RIGHT-OF-WAY, UNLESS WN ON THE PLANS OR AS ORDERED BY THE ENGINEER.

8 SURVEY DATA FOR THIS PROJECT WAS COLLECTED BY SDR AND THE FIELD NOTES CAN BE FOUND IN THE SURVEY FIELD BOOK(S) 12113. COORDINATES ARE NEW HAMPSHIRE STATE PLANE COORDINATES OF NAD83, 1986 ADJUSTMENT AND THE BEARINGS ARE GRID. ELEVATIONS ARE REFERENCED TO NGVD 1929.

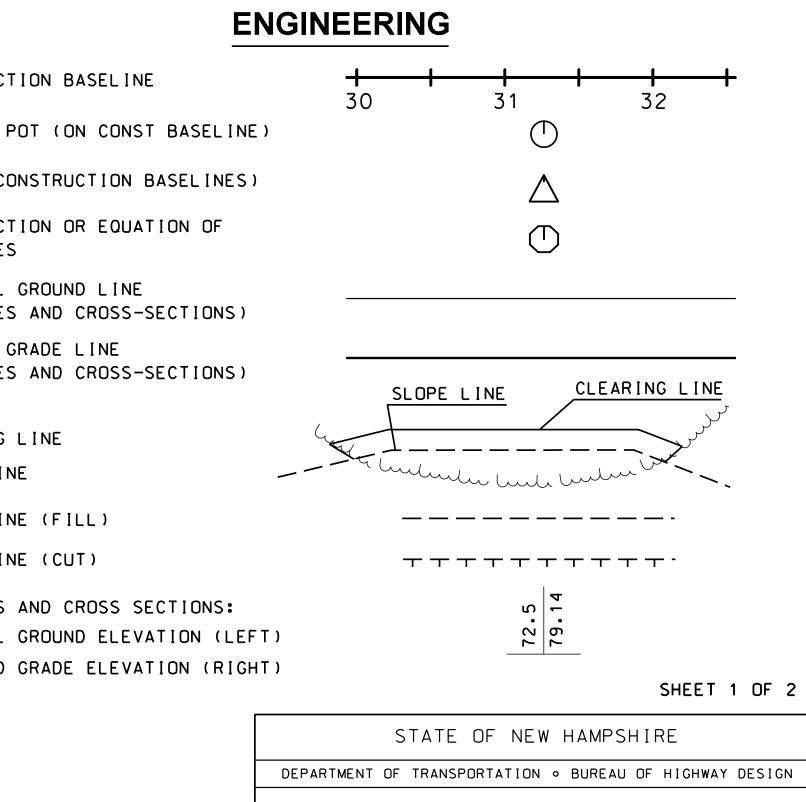
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	DEPARTMENT OF TRA	ANSPORTATION • BUP	REAU OF HIC	GHWAY DESIGN
		DEX OF SI GENERAL		
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# GENERAL



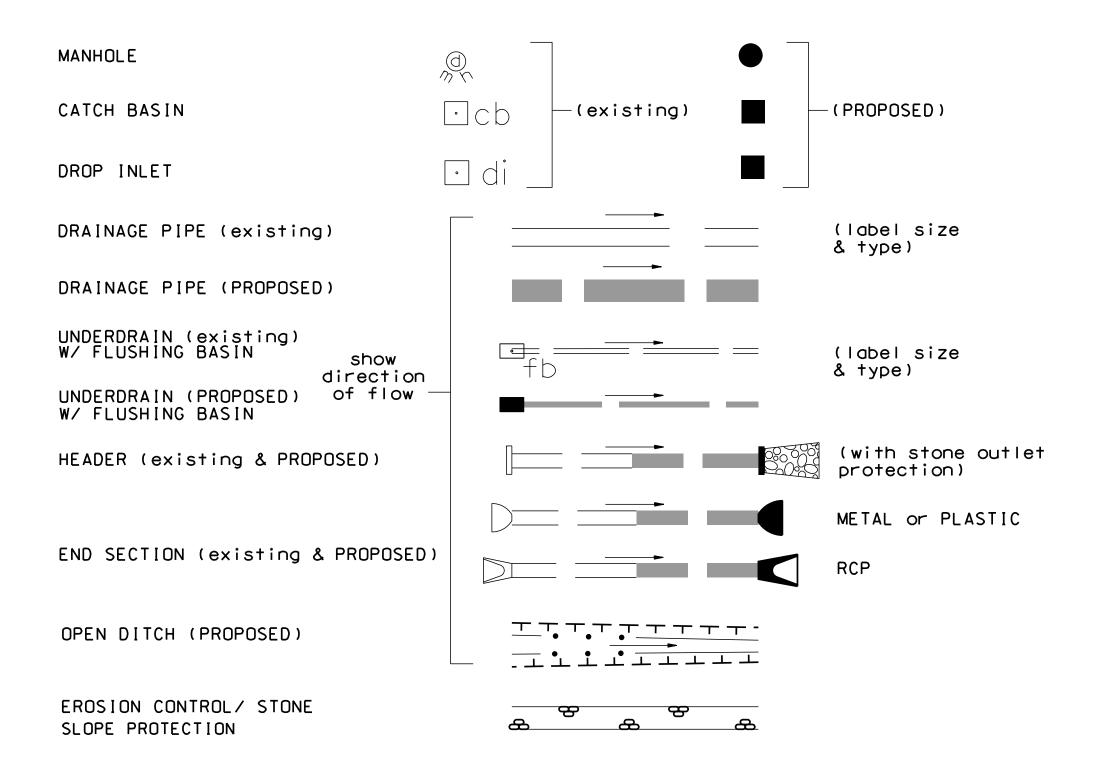
ORIGINAL GROUND	<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	WETLAND DESIGNATION AND TYPE	PUB2E
(TYPICALS)		DELINEATED WETLAND	- — D W — — — D W — — — D W — -
		ORDINARY HIGH WATER	—————————————————————————————————————
		TOP OF BANK	——————————————————————————————————————
ROCK OUTCROP		TOP OF BANK & ORDINARY HIGH WATE	
		NORMAL HIGH WATER WIDTH AT BANK FULL	— — N H W — — N H W — — N H W — — — — — — — — — — — — — — — — — —
		PRIME WETLAND	PWET PWET
ROCK LINE	***************************************	PRIME WETLAND 100' BUFFER	——————————————————————————————————————
(TYPICALS & SECTIONS ONLY)		NON-JURISDICTIONAL DRAINAGE AREA	ANJDANJDA
	existing PROPOSED	COWARDIN DISTINCTION LINE	
		TIDAL BUFFER ZONE	——————————————————————————————————————
GUARDRAIL (label type)	bgr	DEVELOPED TIDAL BUFFER ZONE	——————————————————————————————————————
	<u> </u>	HIGHEST OBSERVABLE TIDE LINE	——————————————————————————————————————
		MEAN HIGH WATER	— — — MHW— — — MHW— — — — — — — — — — — — — — — — — — —
JERSEY BARRIER		MEAN LOW WATER	— — — MLW— — — MLW— — — — — — — — — — — — — — — — — — —
		VERNAL POOL	VP VP VP VP
		SPECIAL AQUATIC SITE	SAS SAS SAS
CURB (LABEL TYPE)		REFERENCE LINE	
		WATER FRONT BUFFER	WB50 WB50 WB50
STONE WALL		NATURAL WOODLAND BUFFER	——————————————————————————————————————
		PROTECTED SHORELAND INVASIVE SPECIES LABEL	- PS250 - PS
		INVASIVE SPECIES LADEL	
RETAINING WALL (LABEL TYPE)	(points toward retained ground)	INVASIVE SPECIES	INV INV INV
FENCE (LABEL TYPE)	//////////	FLOOD	PLAIN / FLOODWAY
		500 YEAR FLOODPLAIN BOUNDARY	——————————————————————————————————————
	(single post)	100 YEAR FLOODPLAIN BOUNDARY	
SIGNS	(double post)		——————————————————————————————————————
		FLOODWAY	—— FW— — FW— — FW— — FW—
GAS PUMP	⊙ gp	EN	GINEERING
FUEL TANK (ABOVE GROUND)	$\odot$ f + (label size & type)	CONSTRUCTION BASELINE	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
STORAGE TANK FILLER CAP	⊙ fc	PC, PT, POT (ON CONST BASELINE)	$\bigcirc$
		PI (IN CONSTRUCTION BASELINES)	$\wedge$
SEPTIC TANK	S		
		INTERSECTION OR EQUATION OF TWO LINES	$\bigcirc$
GRAVE	⊡ gr		_
		ORIGINAL GROUND LINE	
MAILBOX	$\bigcirc$ mb	(PROFILES AND CROSS-SECTIONS)	
		PROFILE GRADE LINE (PROFILES AND CROSS-SECTIONS)	
VENT PIPE	$\odot \vee P$	(Thom ILLS AND CROSS SECTIONS)	SLOPE LINE CLEARING LINE
	$\sim$		
SATELLITE DISH ANTENNA		CLEARING LINE	
		SLOPE LINE	" hulmler buch bucher ".
PHONE	⊠ ph	SLOPE LINE (FILL)	
GROUND LIGHT/LAMP POST	-ç-gl -Ç-lp	SLOPE LINE (CUT)	
	$\neg \neg $	PROFILES AND CROSS SECTIONS:	- <sup>1</sup> 5
BORING LOCATION	⊕ <sub>B</sub>	ORIGINAL GROUND ELEVATION (LEFT)	• •
	▲ B	FINISHED GRADE ELEVATION (RIGHT)	
TEST PIT	TP		SHEET 1 O
	TP		STATE OF NEW HAMPSHIRE
INTERSTATE NUMBERED HIGHWAY	293		DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DES
UNITED STATES NUMBERED HIGHWAY	3		STANDARD SYMBOLS
STATE NUMBERED HIGHWAY	102	REVISION DATE	DGN STATE PROJECT NO. SHEET NO. TOTAL SH 14460SYM01 14460 3 67

# SHORELAND - WETLAND



REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
11-21-2014	14460SYM01	14460	3	67

# DRAINAGE



# **BOUNDARIES / RIGHT-OF-WAY**

RIGHT-OF-WAY LINE	(label type)
RR RIGHT-OF-WAY LINE	
PROPERTY LINE	——— 户———— 户————
PROPERTY LINE (COMMON OWNER)	Z Z
TOWN LINE	BOW CONCORD
COUNTY LINE	COOS GRAF TON
STATE LINE	MAINE NEW HAMPSHIRE
NATIONAL FOREST	
CONSERVATION LAND	— — LC— — LC— —
BENCH MARK / SURVEY DISK	
BOUND	• (proposed) bnd
STATE LINE/ TOWN LINE MONUMENT	• S/L • T/L
NHDOT PROJECT MARKER	
IRON PIPE OR PIN	
DRILL HOLE IN ROCK	$\odot$
TAX MAP AND LOT NUMBER	dh (156 14 1642/341 6.80 Ac.±
PROPERTY PARCEL NUMBER	$\left(12\right)$
HISTORIC PROPERTY	$\overset{\smile}{\biguplus}$

# UTILITIES

			IRAFFIC 3	GIGNALS / ITS
	existing	PROPOSED		existing PROPOSED
TELEPHONE POLE				
POWER POLE			MAST ARM (existing)	· 30' MA (NOTE ANGLE FROM B)
JOINT OCCUPANCY	-D (plot poir not center	nt at face · of symbol)	OPTICOM RECEIVER	
MISCELLANEOUS/UNKNOWN POLE	- <b>&gt;</b>	-	OPTICOM STROBE	
			TRAFFIC SIGNAL	
GUY POLE OR PUSH BRACE			PEDESTAL WITH PEDESTRIAN SIGNAL HEADS AND PUSH BUTTON UNIT	
LIGHT POLE		-	SIGNAL CONDUIT	□ - c c c <b>PC PC PC</b>
LIGHT ON POWER POLE			CONTROLLER CABINET	⊠CC ⊠CC
LIGHT ON JOINT POLE		$-\Box$	METER PEDESTAL	⊠mp ⊠MP
			PULL BOX	Dpb DPB
POLE STATUS: REMOVE, LEAVE, PROPOSED, OR TEMPORARY AS APPLICABLE e.g.:		$\begin{array}{c} 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 \\ 1 $	LOOP DETECTOR (QUADRUPOLE)	(label size)
			LOOP DETECTOR (RECTANGULAR)	(label size)
RAILROAD	(label ownership)		CAMERA POLE (CCTV)	
RAILROAD SIGN	$\times$	$\mathbf{Y}$	FIBER OPTIC DELINEATOR	$\odot$ fod $\odot$ FOD
RAILROAD SIGNAL	$\triangleright \odot \triangleleft$	$\square$	FIBER OPTIC SPLICE VAULT	S V F
UTILITY JUNCTION BOX	Хjb	⊠JB	ITS EQUIPMENT CABINET	SVF Mits MITS
	OWOw		VARIABLE SPEED LIMIT SIGN	
OVERHEAD WIRE	(label type)	UnUn	DYNAMIC MESSAGE SIGN	
UNDERGROUND UTILITIES WATER (on existing lines	III III	OUI OUI	ROAD AND WEATHER INFO SYSTEM	
WATER label size, type and note if abandoned)	ww		CONSTRUCT	TION NOTES
SEWER	S S	—_PSPS	CURB MARK NUMBER - BITUMINOUS	B-1
TELEPHONE	ттт	— рт ——— рт ———	CURB MARK NUMBER - GRANITE	G-1
ELECTRIC	—— E —— E —— —	PE	CLEARING AND GRUBBING AREA	A
GAS	G G	— PG — _ PG — PG —	DRAINAGE NOTE	$\left\langle 1 \right\rangle$
LIGHTING	L L	—— PL ———	EROSION CONTROL NOTE	
INTELLIGENT TRANSPORTATION SYSTEM	—— 1TS —— 1TS —		FENCING NOTE	A
FIBER OPTIC	——————————————————————————————————————	– PF 0 ––––– PF 0 –––	GUARDRAIL NOTE	1
WATER SHUT OFF	WSO O	*So	ITS NOTE	
GAS SHUT OFF	<u>g</u> so	50	LIGHTING NOTE	
HYDRANT	Jy d	0 44 V		
MANHOLES			TRAFFIC SIGNAL NOTE	SHEET 2 OF
SEWER		MHS		STATE OF NEW HAMPSHIRE
TELEPHONE	$(\uparrow)$	МНТ	DEPARTM	IENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESI
ELECTRICAL		МНЕ		STANDARD SYMBOLS
GAS		MHG		SIANDARD SIMBULS
UNKNOWN			REVISION DATE DC 9-1-2016 14460	SN STATE PROJECT NO. SHEET NO. TOTAL SHE SYMO2 14460 4 67

# **TRAFFIC SIGNALS / ITS**

201.1CLEARING AND GRUBBING (F)201.881INVASIVE SPECIES CONTROL TYPE I	UNIT	VT TOTAL	NH TOTAL	TOTAL
201.881 INVASIVE SPECIES CONTROL TYPE I	Δ			QUANTITY
	SY	0.050	0.050 25	0.100
201.882 INVASIVE SPECIES CONTROL TYPE II	SY	0	5	5
202.6 CURB REMOVAL FOR SALVAGE 202.7 REMOVAL OF GUARDRAIL	LF LF	30 220	40	70 320
203.1 COMMON EXCAVATION 203.11 COMMON EXCAVATION - LRS	C Y C Y	360	360	720 40
203.5562 EAGRT PLATFORM ALTERNATE	U	0	40	2
203.5572 EAGRT PLATFORM ALTERNATE, TL 2 - 25' 203.6 EMBANKMENT-IN-PLACE (F)	U CY	0	2	2
206.1COMMON STRUCTURE EXCAVATION206.19COMMON STRUCTURE EXCAVATION EXPLORATORY	СҮ	40	70	110 16
214. FINE GRADING	C Y U	8 0.5	8 0.5	1.0
304.1 SAND (F) 304.2 GRAVEL (F)	CY CY	102 115	103	205 231
304.3 CRUSHED GRAVEL (F)	CY	135	135	270
304.33CRUSHED AGGREGATE FOR SHOULDERS304.35CRUSHED GRAVEL FOR DRIVES	C Y C Y	10 4	1 O 4	20 8
403.11023 HBP - 3/4" BINDER MIX, MACHINE METHOD 403.11043 HBP - 1/2" SURFACE MIX, MACHINE METHOD	TON TON	50 55	55 40	105 95
403.12 HBP - HAND METHOD	TON	10	10	20
403.16 PAVEMENT JOINT ADHESIVE 410.22 ASPHALT EMULSION FOR TACK COAT	LF GAL	300 30	260 20	560 50
417. COLD PLANING BITUMINOUS SURFACES	SY	175	50	225
570.4MORTAR RUBBLE MASONRY (F)585.2STONE FILL, CLASS B	C Y C Y	0	4	4 55
585.22 STONE FILL, CLASS B INTERMIXED WITH HUMUS 593.411 GEOTEXTILE; PERM CONTROL CL.1, NON-WOVEN	CY SY	35 60	30	65 170
603.0001 VIDEO INSPECTION	LF	0	150	150
603.00218 18" R.C. PIPE, 2000D 604.0007 POLYETHYLENE LINER	LF EA	0	150 2	150 2
604.124 CATCH BASINS TYPE B, 4-FOOT DIAMETER 604.324 DRAINAGE MANHOLES, 4-FOOT DIAMETER	U	0	3	3
604.4 RECONSTRUCTING/ADJUSTING CATCH BASIN & DROP INLET	LF	0	5	5
606.1255 BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2) (STEEL POST) 606.12551 BEAM GUARDRAIL (TERMINAL UNIT TYPE EAGRT, TL 2-25') (STEEL POST)	U U	2 0	0	2
606.18001 31" W-BEAM GUARDRAIL WITH 8" OFFSET BLOCK (STEEL POST) 609.01 STRAIGHT GRANITE CURB	LF LF	100 70	50 70	150 140
615.0301 TRAFFIC SIGN TYPE C	SF	35	20	55
615.033 REMOVING TRAFFIC SIGN, TYPE C 615.0501 TRAFFIC SIGN TYPE BB	U SF	9 10	4	13 20
615.0601 TRAFFIC SIGN TYPE CC 615.30691 BRIDGE MOUNTED TRAFFIC SIGN STRUCTURE (MODIFIED)	SF U	5	0	5
618.61 UNIFORMED OFFICERS WITH VEHICLE	\$	*	*	*
618.7 FLAGGERS 619.1 MAINTENANCE OF TRAFFIC	HR U	205 0.32	435	640 1.00
619.25 PORTABLE CHANGEABLE MESSAGE SIGN 621.2 RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR		3 10	3	6 15
621.2RETROREFLECTIVE BEAM GUARDRAIL DELINEATOR621.31SINGLE DELINEATOR WITH POST	E A E A	1	5 1	2
621.32DOUBLE DELINEATOR WITH POST622.1STEEL WITNESS MARKERS	E A E A	1 0	1	2
628.2 SAWED BITUMINOUS PAVEMENT	LF	30	30	60
632.0104RETROREFLECTIVE PAINT PAVE. MARKING, 4" LINE645.51HAY BALES FOR TEMPORARY EROSION CONTROL	LF EA	1400 0	1100 10	2500 10
645.52 RYEGRASS FOR TEMPORARY EROSION CONTROL 645.531 SILT FENCE	LB LF	1 525	1 450	2 975
645.7 STORM WATER POLLUTION PREVENTION PLAN	U	0.32	0.68	1.00
645.71MONITORING SWPPP AND EROSION AND SEDIMENT CONTROLS646.31TURF ESTABLISHMENT WITH MULCH AND TACKIFIERS	HR SY	83 90	80	260 170
647.1 HUMUS 697.11 INVASIVE SPECIES CONTROL AND MANAGEMENT PLAN	CY U	5 0.32	10	15
697.31 PROJECT OPERATIONS PLAN 697.41 CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	U	0.32	0.68	1.00
698.13 FIELD OFFICE TYPE C	U MON	7	14	21
699. MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL 1010.15 FUEL ADJUSTMENT	\$	*	*	*
* = SEE PROPOSAL	Ŧ	I	<u> </u>	I
699.   1010.15	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL FUEL ADJUSTMENT	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL \$ FUEL ADJUSTMENT \$	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL \$ * FUEL ADJUSTMENT \$ *	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL \$ * * FUEL ADJUSTMENT \$ * *

SDR PROCESSED – NEW DESIGN TJG SHEET CHECKED DEM

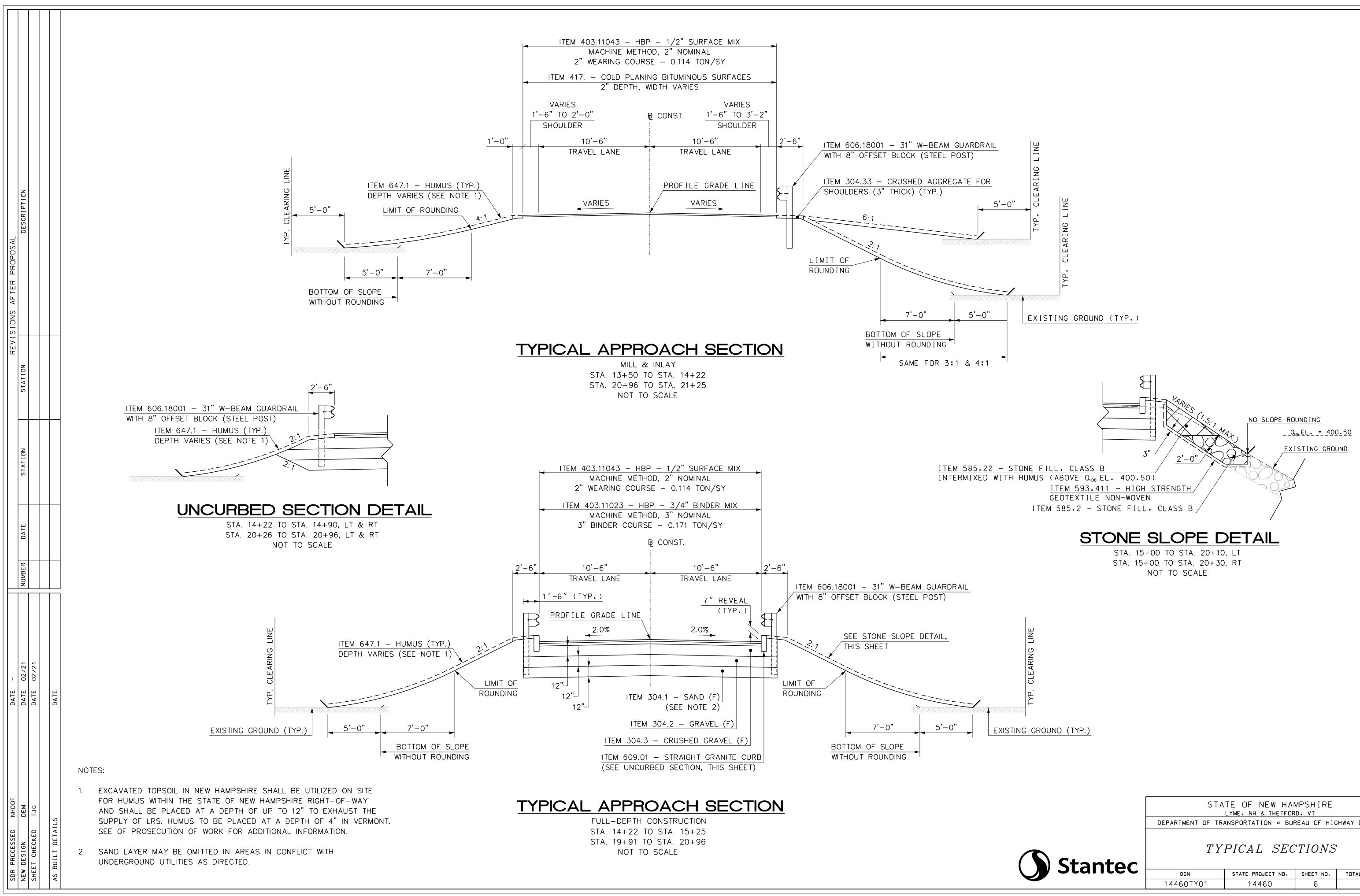
SIGN NO.	DESCRIPTION	SIZE	(FT)	SF	NO.	TOTAL AREA	PORTABLE	U-CHANNEL	REMARKS
		W	Н	•••	REQ.	SF	MOUNTS	POSTS	
620-2a "	"END ROAD WORK"	4	2	8	4	32		3	ORANGE / BLACK
120-3a "	"ROAD CLOSED AHEAD"	4	4	16	4	64		3	FLOURESCENT ORANGE / BLACK
/20-3b "	"ROAD CLOSED 500 FT"	4	4	16	4	64		3	FLOURESCENT ORANGE / BLACK
/20-3c "	"ROAD CLOSED 1000 FT"	4	4	16	4	64		3	FLOURESCENT ORANGE / BLACK
NOTE: THE E	STIMATED QUANTITIES O	F "PEI	RMANE	NT CI	ONTRI	JLS″AF	RE HEREBY	LISTED. 1	THE CONTRACTOR IS
RESPO	DNSIBLE FOR ALL "OPERA	TIONAI	L CON	TROL	s″ri	EQUIRED	) UNDER SE	CTION 619	OF THE NHDOT SPECIFICATION



STATE OF NEW HAMPSHIRE LYME, NH & THETFORD, VT DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

# SUMMARY OF ROADWAY QUANTITIES

DGN STATE PROJECT NO. SHEET NO. TOTAL SHEETS 14460SM 14460 5 67

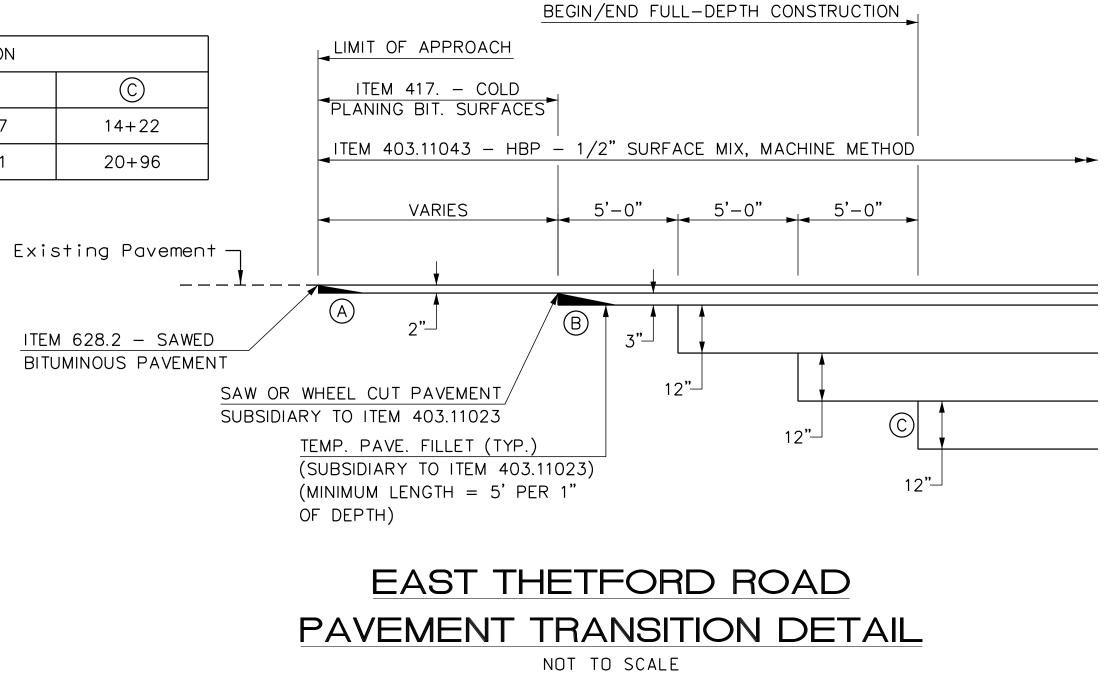




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	DEPARTMENT OF TR	ANSPORTATION • BU	REAU OF HIG	GHWAY DESIGN
Stantec	<i>T Y</i>	PICAL SEC	CTIONS	,
	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
	14460TY01	14460	6	67

SDR PROCESSED NHDOT	DATE –				REVI	REVISIONS AFTER PROPOSAL
NEW DESIGN DEM	DATE 02/21	NUMBER	DATE	STATION	STATION	DESCRIPTION
SHEET CHECKED TJG	DATE 02/21					
AS BUILT DETAILS	DATE					

	STATION
A	B
13+50	14+07
21+25	21+11



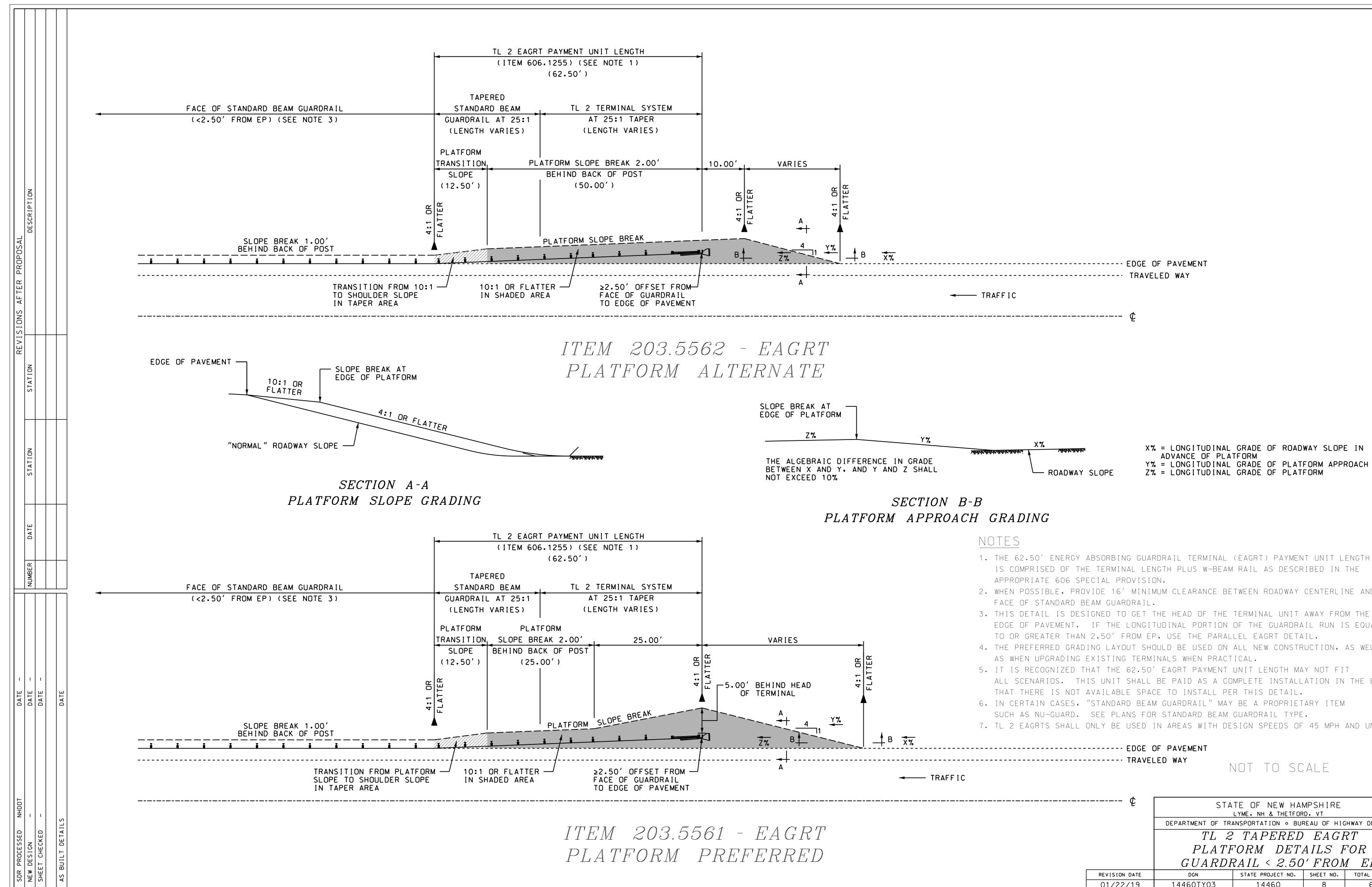


STATE OF NEW HAMPSHIRE LYME, NH & THETFORD, VT
DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN

# CONSTRUCTION DETAILS

 DGN
 STATE PROJECT NO.
 SHEET NO.
 TOTAL SHEETS

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 14460
 7
 67

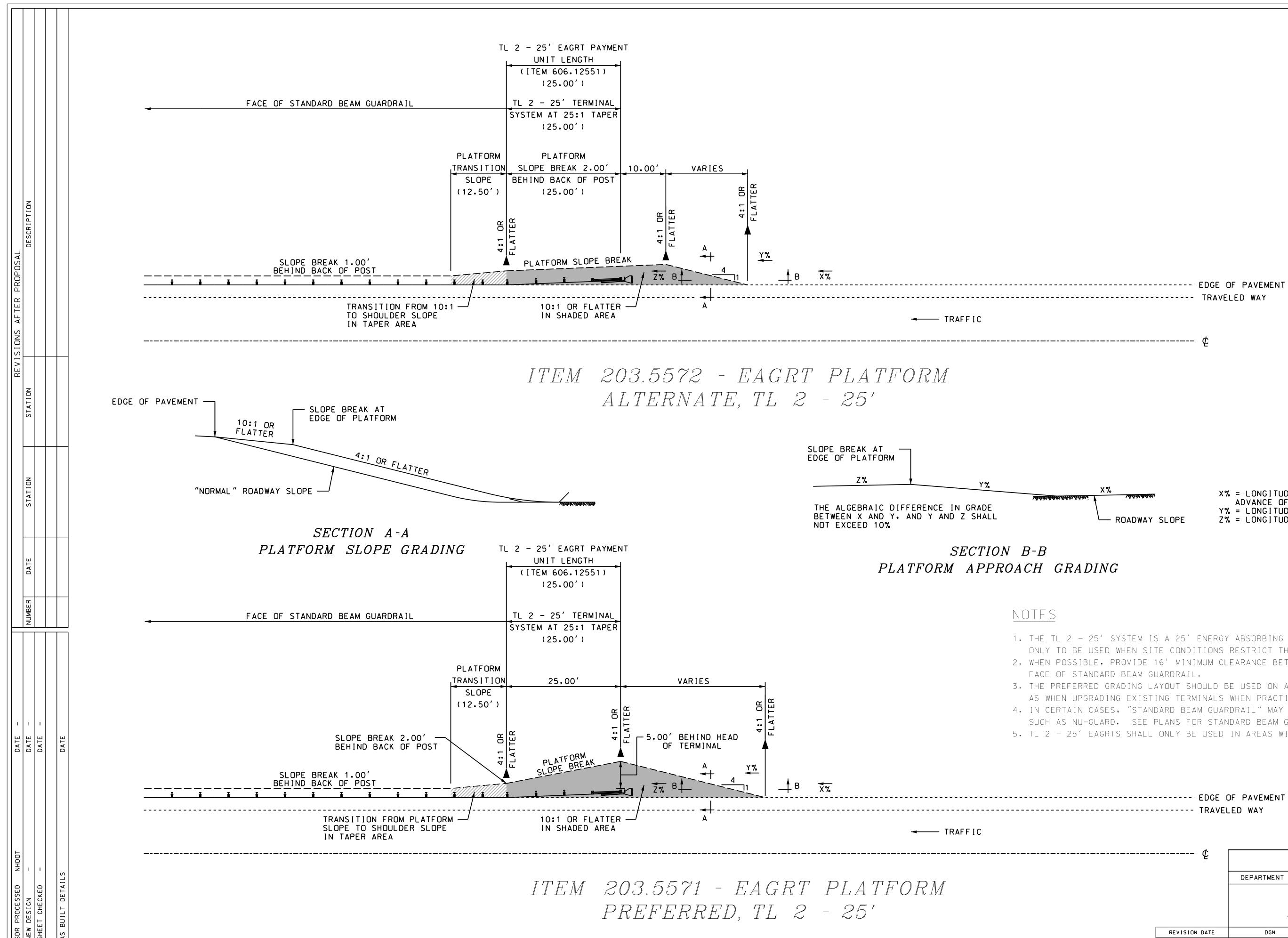


 	DF PAVEMENT .ED WAY	NOT TO SC	EALE		
 ¢		TE OF NEW HAN	D, VT		
	DEPARIMENT OF TRA	NSPORTATION • BUP	REAU OF HIC	SHWAT DESIGN	
	TL 2	TAPERED	EAGP	₹ <i>T</i>	
	PLATF	ORM DET	AILS H	rOR	
GUARDRAIL < 2.50' FROM EP					
REVISION DATE DGN STATE PROJECT NO. SHEET NO. TOTAL SHEE					
01/22/19	14460TY03	14460	8	67	

APPROPRIATE 606 SPECIAL PROVISION. 2. WHEN POSSIBLE, PROVIDE 16' MINIMUM CLEARANCE BETWEEN ROADWAY CENTERLINE AND FACE OF STANDARD BEAM GUARDRAIL. 3. THIS DETAIL IS DESIGNED TO GET THE HEAD OF THE TERMINAL UNIT AWAY FROM THE EDGE OF PAVEMENT. IF THE LONGITUDINAL PORTION OF THE GUARDRAIL RUN IS EQUAL TO OR GREATER THAN 2.50' FROM EP, USE THE PARALLEL EAGRT DETAIL. 4. THE PREFERRED GRADING LAYOUT SHOULD BE USED ON ALL NEW CONSTRUCTION, AS WELL AS WHEN UPGRADING EXISTING TERMINALS WHEN PRACTICAL. 5. IT IS RECOGNIZED THAT THE 62.50' EAGRT PAYMENT UNIT LENGTH MAY NOT FIT ALL SCENARIOS. THIS UNIT SHALL BE PAID AS A COMPLETE INSTALLATION IN THE EVENT THAT THERE IS NOT AVAILABLE SPACE TO INSTALL PER THIS DETAIL. 6. IN CERTAIN CASES, "STANDARD BEAM GUARDRAIL" MAY BE A PROPRIETARY ITEM SUCH AS NU-GUARD. SEE PLANS FOR STANDARD BEAM GUARDRAIL TYPE. 7. TL 2 EAGRTS SHALL ONLY BE USED IN AREAS WITH DESIGN SPEEDS OF 45 MPH AND UNDER.

X% = LONGITUDINAL GRADE OF ROADWAY SLOPE IN ADVANCE OF PLATFORM Y% = LONGITUDINAL GRADE OF PLATFORM APPROACH Z% = LONGITUDINAL GRADE OF PLATFORM ROADWAY SLOPE

EDGE OF PAVEMENT

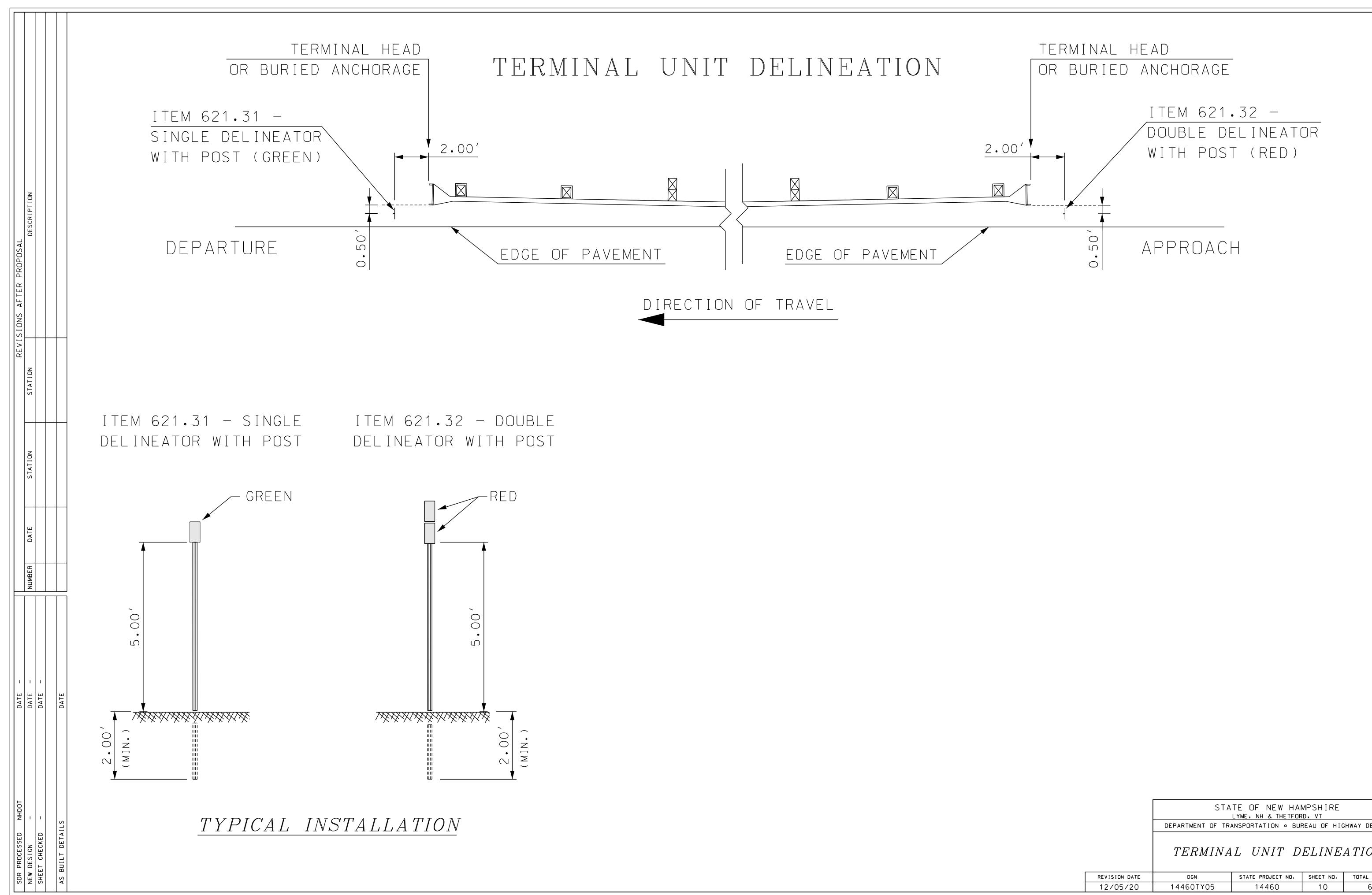


70 <u></u>	X% = LONGITUDINAL GRADE OF ROADWAY SLOPE IN ADVANCE OF PLATFORM	
- ROADWAY SLOPE	Y% = LONGITUDINAL GRADE OF PLATFORM APPROACH Z% = LONGITUDINAL GRADE OF PLATFORM	

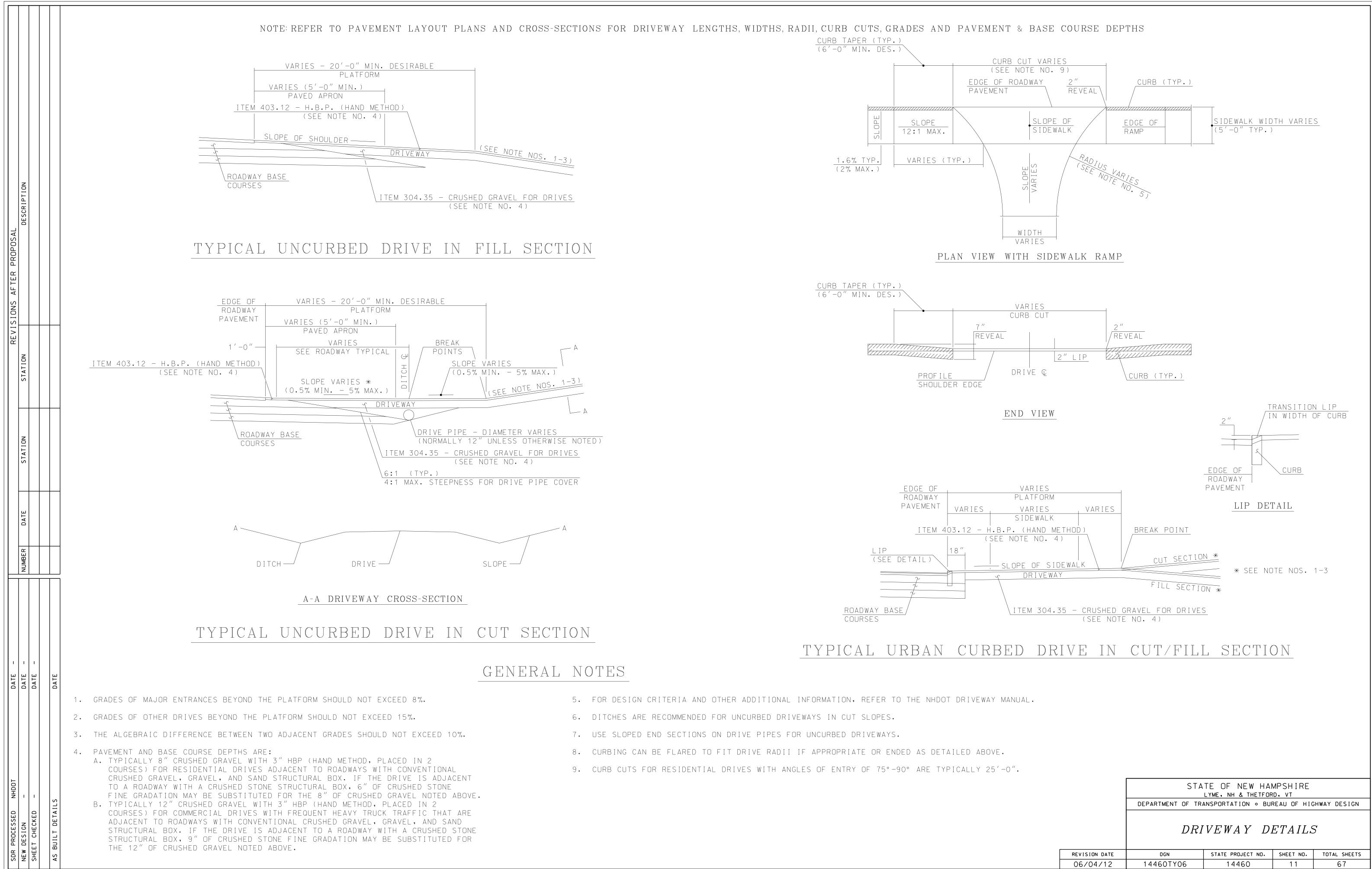
1. THE TL 2 - 25' SYSTEM IS A 25' ENERGY ABSORBING GUARDRAIL TERMINAL (EAGRT) UNIT ONLY TO BE USED WHEN SITE CONDITIONS RESTRICT THE USE OF A STANDARD TL 2 SYSTEM. 2. WHEN POSSIBLE, PROVIDE 16' MINIMUM CLEARANCE BETWEEN ROADWAY CENTERLINE AND 3. THE PREFERRED GRADING LAYOUT SHOULD BE USED ON ALL NEW CONSTRUCTION, AS WELL AS WHEN UPGRADING EXISTING TERMINALS WHEN PRACTICAL. 4. IN CERTAIN CASES, "STANDARD BEAM GUARDRAIL" MAY BE A PROPRIETARY ITEM SUCH AS NU-GUARD. SEE PLANS FOR STANDARD BEAM GUARDRAIL TYPE. 5. TL 2 - 25' EAGRTS SHALL ONLY BE USED IN AREAS WITH DESIGN SPEEDS OF 45 MPH AND UNDER.

NOT TO SCALE

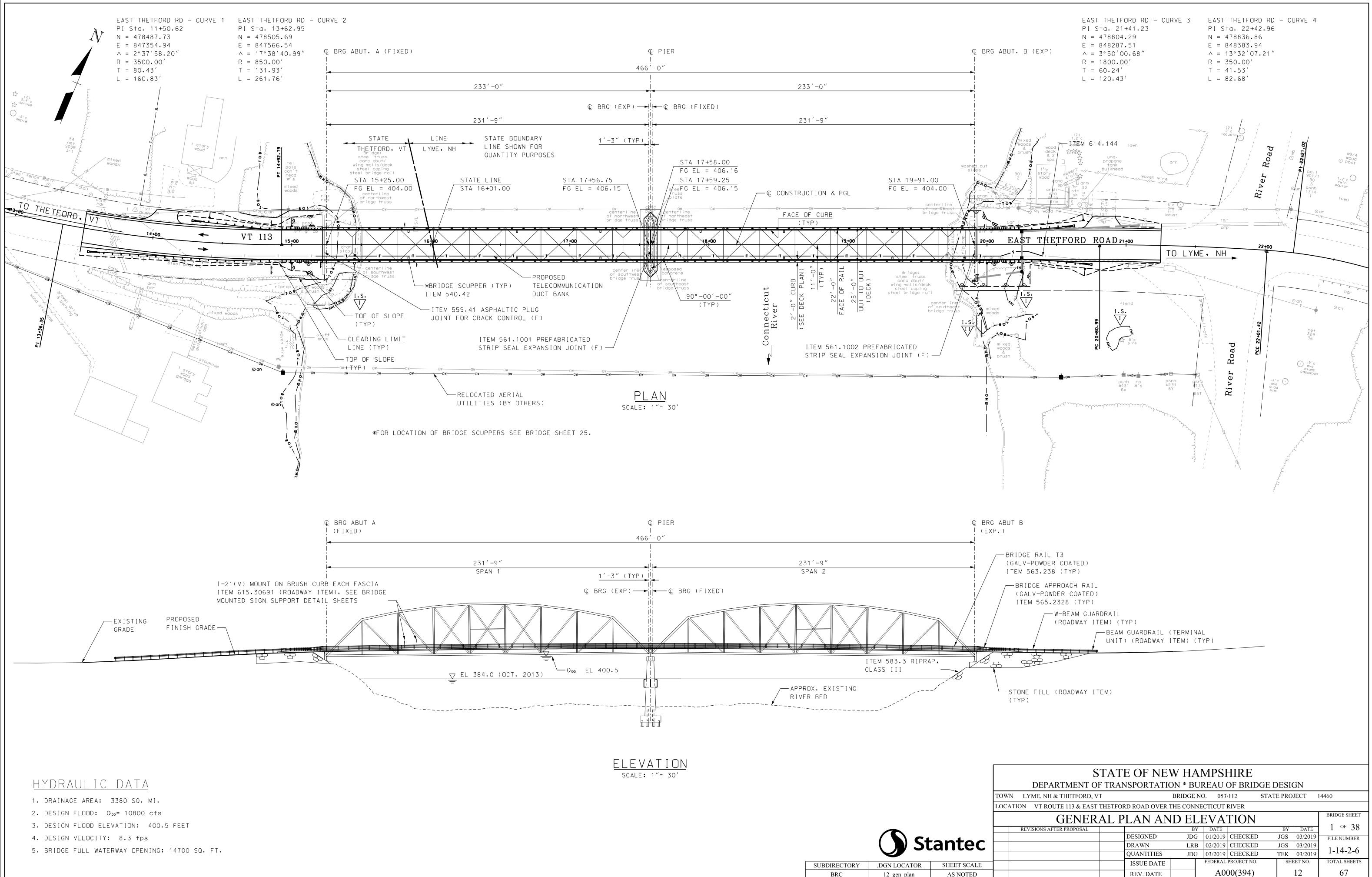
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·· 4	STATE OF NEW HAMPSHIRE LYME, NH & THETFORD, VT					
	DEPARTMENT OF TRA	DEPARTMENT OF TRANSPORTATION . BUREAU OF HIGHWAY DESIGN				
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REVISION DATE	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS		
01/22/19	14460TY04	14460	9	67		



	STATE OF NEW HAMPSHIRE LYME, NH & THETFORD, VT						
	DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN						
	TERMINA	L UNIT D	ELINE.	A TION			
REVISION DATE	DGN STATE PROJECT NO. SHEET NO. TOTAL SHEETS						
12/05/20	14460TY05	14460	10	67			



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LYME, NH & THETFORD, VT								
	DEPARTMENT OF TRANSPORTATION • BUREAU OF HIGHWAY DESIGN							
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	REVISION DATE	DGN STATE PROJECT NO. SHEET NO. TOTAL SHEETS						
	06/04/12	14460TY06	14460	11	67			



SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE	
BRC	12_gen_plan	AS NOTED	

		TERIALS, AND SPECIFICATIONS	ACCES
(1)	DESIGN LOADING:	HL-93 (BRIDGE DECK, FLOOR BEAMS, STRINGERS)	(1) I <sup>-</sup> MA
(2)	DESIGN METHOD:	LOAD AND RESISTANCE FACTOR DESIGN (LRFD) (BRIDGE DECK, FLOOR BEAMS, STRINGERS)	NE Pl
(3)	SPECIFICATIONS:	AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION NHDOT 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED.	(2) A( Tf
(4)	REINFORCING STEEL:	AASHTO M31 (ASTM A615) GRADE 60. ABUTMENT BACKWALLS/WINGWALLS SHALL BE EPOXY COATED BRIDGE DECK AND BRUSH CURBS SHALL BE CONTINUOUSLY GALVANIZED	(3) TE Sh (4) A(
(5)	STRUCTURAL STEEL:	AASHTO M270 GRADE 50 (ASTM A709 GRADE 50), PAINTED. SEE NOTES ON BRIDGE SHEET 3 FOR ADDITIONAL INFORMATION.	E/ CC CF RE
(6)	CONCRETE:	ABUTMENT, WINGWALL, AND PIER REPAIRS = 4,000 PSI: ITEM 520.02012, CONCRETE CLASS AA, ABOVE FOOTINGS (ABUT/WALL/PIER REPAIR)	(5) AF Re
		ABUTMENT BACKWALL/WINGWALL RECONSTRUCTION = 4,000 PSI: ITEM 520.0201, CONCRETE CLASS AA, ABOVE FOOTINGS	Tł
		PIER JACKET = 4,000 PSI:	BRIDO
		ITEM 520.02011, CONCRETE CLASS AA, ABOVE FOOTINGS	(1) TH D(
		BRIDGE DECK = 4,000 PSI: ITEM 520,7002, CONCRETE BRIDGE DECK (QC/QA) (F)	OF
		BRUSH CURBS = 4,000 PSI: ITEM 520.70028, CONCRETE BRIDGE DECK (QC/QA) (INTEGRALLY COLORED) (F)	(2) RE IM
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(15) FOR BRIDGE AND APPROACH RAIL NOTES SEE BRIDGE SHEETS 35-36.

# FOR BRIDGE CONSTRUCTION NOTES

500.02, ACCESS FOR BRIDGE CONSTRUCTION, SHALL CONSIST OF THE DESIGN, CONSTRUCTION, TENANCE, AND REMOVAL OF ANY TEMPORARY ACCESS ROADS AND STRUCTURES BY THE CONTRACTOR SSARY TO REHABILITATE AND REMOVE PORTIONS OF THE EXISTING BRIDGE AS SHOWN IN THE NS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.

ISS FOR BRIDGE CONSTRUCTION WITHIN THE RIVER SHALL BE OPEN STRUCTURES, TEMPORARY TLE OR WORK PLATFORM, OR BARGES, UNLESS NOTED OTHERWISE.

ORARY ACCESS SHOWN FOR BRIDGE CONSTRUCTION IS SCHEMATIC ONLY. ACTUAL TEMPORARY ACCESS BE DEVELOPED BY THE CONTRACTOR.

ISS SHALL REMAIN WITHIN WETLAND IMPACT AREAS SHOWN IN THE WETLAND PERMIT AND WITHIN THE MENTS SHOWN ON THE CONSTRUCTION ACCESS PLAN. ANY ALTERATIONS SHALL BE CHECKED FOR ORMANCE WITH THE WETLAND PERMIT. ADDITIONAL COSTS FOR PERMITS NEEDED ASSOCIATED WITH IGES BASED ON THE CONTRACTOR'S METHOD OF CONSTRUCTION SHALL BE THE CONTRACTOR'S ONSIBILITY.

ER CONSTRUCTION IS COMPLETE, ALL TEMPORARY MATERIAL SHALL BE REMOVED AND THE AREA RNED TO AS NEAR AS PRACTICABLE TO THE PRE-CONSTRUCTION CONDITIONS AND AS DIRECTED BY ENGINEER, ALL COSTS SHALL BE SUBSIDIARY TO ITEM 500,02.

# REMOVAL NOTES

CONTRACTOR'S METHOD FOR PARTIAL REMOVAL OF THE EXISTING BRIDGE SHALL BE SUBMITTED FOR MENTATION IN ACCORDANCE WITH 105.02, PRIOR TO THE COMMENCEMENT OF ANY REMOVAL RATIONS.

VAL OF EXISTING BRIDGE STRUCTURE, ITEM 502, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL UDE THE FOLLOWING:

EXCAVATION, TEMPORARY EARTH SUPPORT, BACKFILL, AND GRADING NOT INCLUDED IN OTHER TEMS, BUT REQUIRED FOR THE ABUTMENT AND WINGWALL REHABILITATION WORK.

REMOVAL OF THE BRIDGE DECK, INCLUDING EXPANSION JOINT STEEL, SCUPPERS, PAVEMENT, AND EMBRANE, THE EXISTING BRIDGE DECK HAS NO SHEAR CONNECTORS ACCORDING TO THE AVAILABLE XISTING PLANS.

REMOVAL OF THE STEEL BRIDGE CURBS AND BRIDGE RAIL. RAIL POSTS AT THE END FLOOR BEAMS EACH TRUSS TO BE RETAINED AND INCORPORATED IN THE WORK.

REMOVAL OF ABUTMENT BACKWALLS INCLUDING EXPANSION JOINT STEEL.

REMOVAL OF RIVETS.

REMOVAL OF EXTERIOR STRINGERS AND END FLOORBEAMS, INCLUDING CONNECTION ANGLES. REMOVAL OF THE FLOOR SYSTEM LOWER LATERAL BRACING, INCLUDING GUSSET PLATES AND DESIGN TEMPORARY BRACING.

REMOVAL OF DETERIORATED TRUSS LACING BARS.

REMOVAL OF EXISTING BRIDGE-MOUNTED CONDUIT.

NG CONCRETE DECK REMOVAL OPERATIONS, CARE SHALL BE TAKEN NOT TO DAMAGE TOP FLANGES OF NGERS AND FLOOR BEAMS TO REMAIN, ANY DAMAGE TO STRUCTURAL STEEL SHALL BE IMMEDIATELY DRTED TO THE BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED, AT THE CONTRACTOR'S INSE.

VAL OF THE EXISTING BRIDGE APPROACH RAIL IS PAID UNDER ITEM 202.7 (ROADWAY ITEM).

## )AM NOTES

MPORARY COFFERDAM SHALL BE INSTALLED AROUND THE PERIMETER OF THE PIER FOR RONMENTAL CONTAINMENT AND TO MAINTAIN A DEWATERED CONDITION NECESSARY FOR CONSTRUCTION HE CONCRETE PIER REPAIRS. ALL COSTS FOR MATERIALS, INSTALLATION, MAINTENANCE, AND VAL SHALL BE INCLUDED IN ITEM 503.201, COFFERDAMS.

LIMITS OF THE COFFERDAM SHOWN ON THE PLANS IS APPROXIMATE AND SHALL BE ADJUSTED AS SSARY TO ACCOMMODATE THE CONTRACTOR'S MEANS AND METHODS.

ITEMS COVERED UNDER SECTION 503 OF THE SPECIFICATIONS SHALL BE DESIGNED BY A ESSIONAL ENGINEER, LICENSED IN THE STATE OF NH. THE CONTRACTOR SHALL SUBMIT STAMPED ING DRAWINGS AND CALCULATIONS FOR REVIEW AND DOCUMENTATION IN ACCORDANCE WITH SECTION 02.

COSTS FOR HANDLING ANY WATER DISPLACED FROM WITHIN THE COFFERDAM SHALL BE SUBSIDIARY TEM 503.201. ALL MEANS AND METHODS ASSOCIATED WITH HANDLING DISPLACED WATER DURING TRUCTION SHALL BE LOCATED WITHIN THE LIMITS OF WORK SHOWN ON THE WETLANDS PERMIT FOR PROJECT.

EXCAVATION OF COBBLES AND BOULDERS MAY BE NECESSARY PRIOR TO INSTALLING THE COFFERDAM. NG EXCAVATION THE CONTRACTOR SHALL DISTURB THE AREA AS LITTLE AS POSSIBLE AND USE SSARY PRECAUTIONS TO MINIMIZE IMPACTS TO THE RIVER. ALL COSTS SHALL BE SUBSIDIARY TO 503.201.

645,0001 TURBIDITY BARRIER SHALL BE USED IN CONJUNCTION WITH THE COFFERDAM AND SHALL IN PLACE PRIOR TO DISTURBANCE OF THE CHANNEL BOTTOM AND REMAIN IN PLACE UNTIL THE PIER IS COMPLETE.

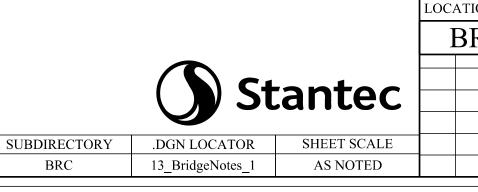
# SUBSTRUCTURE REHABILITATION NOTES

- PREPARATION FOR CONCRETE REPAIRS, CLASS II.
- 520.02011, AND 520.02012 AS APPROPRIATE.
- MEANS AS APPROVED BY THE ENGINEER.

(4) HOLES DRILLED IN EXISTING CONCRETE FOR ANCHORING REINFORCING STEEL SHALL BE GROUTED WITH AN APPROVED HIGH STRENGTH, NON-SHRINK GROUT LISTED UNDER SECTION 528 OF THE NHDOT QUALIFIED PRODUCTS LIST. HOLES SHALL BE DRILLED 1/2" LARGER THAN THE BAR DIAMETER UNLESS OTHERWISE RECOMMENDED BY THE GROUT MANUFACTURER. ALL COSTS FOR DRILLING AND GROUTING SHALL BE SUBSIDIARY TO ITEM 544 AND 544.2, UNLESS OTHERWISE NOTED.

- 536.11, EPOXY COATING FOR CONCRETE.
- REPELLENT (SILANE-SILOXANE).

- JOINT SEALANT.



BRC

TOWN

(1) EXISTING ABUTMENT, WINGWALL, AND PIER SURFACES SHALL BE INSPECTED FOR DETERIORATED CONCRETE JOINTLY BY THE CONTRACT ADMINISTRATOR AND THE CONTRACTOR. ALL DETERIORATED CONCRETE SHALL BE REMOVED TO A SOUND CONCRETE SURFACE, ALL INSPECTION, REMOVAL, AND CLEANING SHALL BE AS SPECIFIED IN SECTION 512 FOR CLASS II SURFACE PREPARATION. ALL COSTS FOR SURFACE PREPARATION AND CONTAINMENT OF DEBRIS SHALL BE INCLUDED IN ITEMS 512.020X,

(2) PRIOR TO PLACING NEW CONCRETE AGAINST EXISTING CONCRETE SURFACES, AT ABUTMENT, WINGWALLS, AND PIER, THE EXISTING CONCRETE SURFACES SHALL BE BLAST-CLEANED AND PREPARED TO A SATURATED SURFACE-DRY CONDITION. ALL COSTS SHALL BE SUBSIDIARY TO ITEMS 520.0201,

(3) REPAIRS TO EXISTING PIER CONCRETE SURFACES BELOW THE WATER SHALL BE DONE IN-THE-DRY. THE WORK SHALL BE ACCOMPLISHED USING A DE-WATERED COFFERDAM, WATERTIGHT FALSEWORK, OR BY OTHER

(5) SAWCUT ALL EXPOSED CONCRETE REMOVAL AREAS TO PROVIDE NEAT REMOVAL LINES IN ACCORDANCE WITH 512.3.2.3. ALL COSTS INCLUDED IN ITEM 502, REMOVAL OF EXISTING BRIDGE STRUCTURE, OR ITEMS 512.020X, PREPARATION FOR CONCRETE REPAIRS, CLASS II, AS APPROPRIATE.

(6) AFTER ALL PIER REPAIRS ARE MADE, COAT THE PIER CAP SURFACES TO THE LIMITS SHOWN WITH ITEM

(7) AFTER ALL SUBSTRUCTURE REPAIRS ARE MADE, ALL EXPOSED CONCRETE SURFACES SHALL BE WASHED, SUBSIDIARY TO ITEM 534.3, IN SUCH A MANNER THAT OVERSPRAY INTO SURFACE WATERS IS KEPT TO A MINIMUM, IF THE WATER BEADS, NO COATING NEEDS TO BE APPLIED, IF THE WATER DOES NOT BEAD, COAT THE SURFACE (EXCEPT SURFACES TO BE COATED WITH ITEM 536.11) WITH ITEM 534.3, WATER

(8) EXISTING ABUTMENT BACKWALLS AND WINGWALLS SHALL BE REMOVED TO THE LIMITS SHOWN ON THE PLANS, EXISTING REINFORCING STEEL TO BE RETAINED SHALL BE CUT OFF OR BENT AS NEEDED TO PROVIDE 2<sup>1</sup>/2" CLEAR FROM PROPOSED CONCRETE SURFACES, UNLESS NOTED OTHERWISE, ALL COSTS INCLUDED IN ITEM 502, REMOVAL OF EXISTING BRIDGE STRUCTURE.

(9) ITEM 538.2, BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F), 2 FEET WIDE WITH PROTECTION BOARD (SUBSIDIARY), SHALL BE PLACED CENTERED OVER THE HORIZONTAL AND VERTICAL CONSTRUCTION JOINTS AT THE BACK OF THE ABUTMENT BACKWALL, AS SHOWN ON THE PLANS.

(10) PLACE 1" THICK SELF-EXPANDING CORK FILLER IN THE VERTICAL JOINT BETWEEN THE PROPOSED BRIDGE DECK AND THE RECONSTRUCTED ABUTMENT WINGWALLS AT ABUTMENT A AS SHOWN ON THE PLANS. SET CORK FILLER  $\frac{1}{2}$ " BELOW EXPOSED SURFACES AND SEAL WITH 1" x  $\frac{1}{2}$ " ITEM 562.1, SILICONE

(11) A GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES), ITEM 540.511 SHALL BE PLACED IN THE RECONSTRUCTED ABUTMENT BACKWALLS/WINGWALLS, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

(12) A GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES), ITEM 540,512 SHALL BE PLACED IN THE CONCRETE REPAIR AREAS OF THE ABUTMENTS AND PIER, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

# STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION \* BUREAU OF BRIDGE DESIGN

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ION VT ROUTE 113 & EAST	DN   VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER							
RIDGE NOTES & SUMMARY QUANTITIES (1 OF 2)								
			<u> </u>			<u> </u>		2 OF 38
REVISIONS AFTER PROPOSAL			BY	DATE		BY	DATE	2 5 30
		DESIGNED	JDG	01/2019	CHECKED	DDT	02/2021	FILE NUMBER
		DRAWN	LRB	02/2019	CHECKED	DDT	04/2022	1 1 4 2 6
		QUANTITIES	JDG	02/2021	CHECKED	TEK	02/2021	1-14-2-6
		ISSUE DATE		FEDERAL	PROJECT NO.	SHI	EET NO.	TOTAL SHEETS
		REV. DATE		A00	00(394)		13	67

# STRUCTURAL STEEL AND SUPERSTRUCTURE REHABILITATION NOTES

- (1) UNLESS OTHERWISE NOTED, ALL STRUCTURAL STEEL SHALL BE PAID UNDER ITEM 550,1, STRUCTURAL STEEL (F), INCLUDING FLOOR BEAMS, STRINGERS, CONNECTION ANGLES, LATERAL BRACING, GUSSET PLATES, UTILITY SUPPORT ANGLES, PIER JACKET NOSE ARMOR, AND STRUCTURAL FASTENERS. STRUCTURAL STEEL FOR RUST HOLE REPAIR AND LACING BAR REPLACEMENT SHALL BE PAID UNDER ITEM 550.40X. REFER TO BRIDGE SHEET 21 FOR DETAILS.
- (2) STRUCTURAL STEEL SHALL CONFORM TO AASHTO M270 GRADE 50 (ASTM A709 GRADE 50). LATERAL BRACING ANGLES AND GUSSET PLATES, RUST HOLE REPAIR PLATES, LACING BARS, UTILITY SUPPORT ANGLES, AND PIER JACKET NOSE ARMOR MAY CONFORM TO ASTM A36. ALL STRUCTURAL STEEL SHALL BE PAINTED UNLESS OTHERWISE NOTED.
- (3) THE NOTCH TOUGHNESS REQUIREMENTS OF NHDOT STANDARD SPECIFICATIONS SHALL APPLY TO FLOOR BEAMS, STRINGERS, CONNECTION ANGLES, AND RUST HOLE REPAIR PLATES.
- (4) FRACTURE CRITICAL MEMBERS SHALL BE FABRICATED ACCORDING TO THE PROVISIONS OF CLAUSE 12 OF THE AASHTO/AWS D1.5 BRIDGE WELDING CODE. FRACTURE CRITICAL MEMBERS ARE DESIGNATED "FCM" AND INCLUDE THE END FLOOR BEAMS.
- (5) THE STRUCTURAL STEEL FABRICATOR SHALL ARRANGE FOR NON-DESTRUCTIVE TESTING OF THE WELDS. ALL COSTS SHALL BE INCLUDED IN ITEM 550.1, STRUCTURAL STEEL (F).
- (6) ALL WELDING AND FABRICATION SHALL BE PERFORMED IN ACCORDANCE WITH THE AASHTO/AWS D1.5-20 BRIDGE WELDING CODE (INCLUDING ALL REVISIONS PUBLISHED BY AASHTO AS OF THE BID OPENING DATE) AND NHDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- (7) THE CONTRACTOR SHALL SUBMIT A HANDLING AND ERECTION PLAN TO THE ENGINEER PRIOR TO HANDLING THE STRUCTURAL STEEL IN ACCORDANCE WITH SECTIONS 550.3.14 AND 550.3.15.
- (8) FIELD WELDING OF ATTACHMENTS TO, OR PLACEMENT OF HOLES IN, ANY EXPOSED PORTION OF THE STRINGERS OR FLOOR BEAMS FOR CONSTRUCTION PURPOSES, IS NOT PERMITTED. FIELD ATTACHMENTS TO THE TOP FLANGE FOR CONSTRUCTION PURPOSES MUST BE APPROVED BY THE ENGINEER.
- (9) BRIDGE DECK CONCRETE SHALL REMAIN PLASTIC THROUGHOUT EACH PLACEMENT, BRIDGE DECK CONCRETE IN EACH SPAN SHALL BE PLACED CONTINUOUSLY, EXCLUDING EXPANSION JOINT BLOCKOUTS
- (10) EXISTING RIVETS SHALL BE REMOVED BY AN APPROVED METHOD WHICH WILL NOT DAMAGE REMAINING STEEL MEMBERS. THE CONTRACTOR SHALL SUBMIT THE PROPOSED METHOD OF RIVET REMOVAL FOR APPROVAL PRIOR TO COMMENCEMENT OF ANY REMOVAL OPERATIONS. ALL COSTS INCLUDED IN ITEM 502.
- (11) AFTER REMOVAL OF STEEL MEMBERS, ALL EXISTING RIVET HOLES NOT REUSED SHALL BE FILLED WITH FULLY-TENSIONED '<sub>8</sub>" HIGH-STRENGTH BOLTS. ALL COSTS SHALL BE INCLUDED IN ITEM 550.1.
- (12) FAYING SURFACES OF EXISTING STEEL CONNECTIONS SHALL BE CLEANED AND PRIMED IN ACCORDANCE WITH THE SECTION 556 SPECIAL PROVISION PRIOR TO INSTALLING NEW STEEL.
- (13) THE CONTRACTOR IS ADVISED THAT THE PAINT SYSTEM(S) ON THE EXISTING STRUCTURAL STEEL IS LEAD BEARING PAINT. PAINT DEBRIS SHALL BE REMOVED, COLLECTED, AND DISPOSED OF IN A MANNER CONFORMING TO POLLUTION CONTROL REQUIREMENTS IN ACCORDANCE WITH THE SECTION 556 SPECIAL PROVISION, SEE PROSECUTION OF WORK FOR ADDITIONAL INFORMATION,
- (14) THE COST OF SHOP AND FIELD PAINTING NEW STRUCTURAL STEEL SHALL BE INCLUDED IN ITEM 550.1 AND 550.40X. THE COST OF CLEANING AND PAINTING EXISTING STEEL SHALL BE INCLUDED IN ITEMS 556.X01. REFER TO THE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
- (15) PRECAST STAY-IN-PLACE DECK PANELS WILL NOT BE PERMITTED FOR FORMING THE BRIDGE DECK.
- (16) SCREED RAIL SUPPORTS REQUIRED FOR PLACEMENT OF THE DECK CONCRETE SHALL BE LOCATED AT THE CENTERLINE OF THE STRINGERS.
- (17) ALL BOLTED CONNECTIONS SHALL BE MADE WITH  $\frac{7}{8}$ " HIGH-STRENGTH BOLTS IN  $\frac{15}{16}$ " HOLES, UNLESS NOTED OTHERWISE. RIVETS REMOVED SHALL BE REPLACED WITH HIGH-STRENGTH BOLTS OF THE SAME SIZE, FASTENERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F3125, GRADE A325 TYPE 1, GALVANIZED. DIRECT TENSION INDICATORS SHALL BE INSTALLED WITH HIGH-STRENGTH BOLTS. WHERE THE OUTER FACE OF THE BOLTED PARTS HAS A SLOPE GREATER THAN 1:20 WITH RESPECT TO A PLANE NORMAL TO THE BOLT AXIS (e.g. CHANNEL FLANGES), A HARDENED BEVELED WASHER SHALL BE USED TO COMPENSATE FOR THE LACK OF PARALLELISM. THE COST OF ALL FIELD DRILLING AS REQUIRED SHALL BE INCLUDED IN ITEM 550.1 AND 550.40X.
- (18) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN AND INSTALLATION OF TEMPORARY FLOOR SYSTEM LATERAL BRACING NECESSARY DURING REMOVAL AND REPLACEMENT OF THE EXISTING LOWER LATERAL BRACING. THE TEMPORARY BRACING PLAN SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE, THE CONTRACTOR SHALL SUBMIT STAMPED WORKING DRAWINGS AND CALCULATIONS FOR REVIEW AND DOCUMENTATION IN ACCORDANCE WITH SECTION 105.02. ALL COSTS SHALL BE INCLUDED IN ITEM 502. REMOVAL OF EXISTING BRIDGE STRUCTURE.
- (19) IF THE CONTRACTOR CHOOSES TO USE THE EXISTING BRIDGE TO SUPPORT CONSTRUCTION LOADS DURING THE REHABILITATION WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANALYZING THE EXISTING STRUCTURE TO ENSURE THAT THE PROPOSED LOADINGS CAN BE SAFELY SUPPORTED. THE LOADINGS FROM THE CONTRACTOR'S OPERATIONS SHALL NOT EXCEED THE OPERATING CAPACITY OF THE EXISTING BRIDGE. ALL TEMPORARY LOADING PLANS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE, THE CONTRACTOR SHALL SUBMIT STAMPED WORKING DRAWINGS AND CALCULATIONS FOR REVIEW AND DOCUMENTATION IN ACCORDANCE WITH SECTION 105.02. ALL COSTS SHALL BE SUBSIDIARY TO THE WORK.
- (20) STRUCTURAL STEEL SHALL BE INSPECTED FOR STRUCTURAL DEFICIENCIES (SIGNIFICANT STEEL LOSS, CRACKS, MISSING BOLTS, ETC.) JOINTLY BY THE CONTRACT ADMINISTRATOR AND CONTRACTOR. ANY APPROVED REPAIRS REQUIRED BY THE DEPARTMENT, IN ADDITION TO THE WORK IDENTIFIED IN THE PLANS, SHALL BE PERFORMED BY THE CONTRACTOR AND PAID UNDER ITEM 1002.1, REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES.

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	SUMMARY OF BRIDGE QUANTITIES				
ITEM NO.	ITEM DESCRIPTION	UNIT	VT TOTAL	NH TOTAL	TOTAL QUANTITY
207.3	UNCLASSIFIED CHANNEL EXCAVATION	СҮ	0	24	24
209.201	GRANULAR BACKFILL (BRIDGE) (F)	СҮ	18	15	33
500.02	ACCESS FOR BRIDGE CONSTRUCTION	U	0	1	1
502.	REMOVAL OF EXISTING BRIDGE STRUCTURE	U	0.14	0.86	1
503.201	COFFERDAMS	U	0	1	1
504.1	COMMON BRIDGE EXCAVATION (F)	СҮ	19	15	34
512.0201	PREPARATION FOR CONCRETE REPAIRS, CLASS II	SY	11	4	15
512.0202	PREPARATION FOR CONCRETE REPAIRS, CLASS II	SY	0	179	179
520.0201	CONCRETE CLASS AA, ABOVE FOOTINGS	СҮ	5	4	9
520.02011	CONCRETE CLASS AA, ABOVE FOOTINGS	СҮ	0	37	37
520.02012	CONCRETE CLASS AA, ABOVE FOOTINGS (ABUTMENT/WALL/PIER REPAIR)	СҮ	2	31	33
520.421	CONCRETE CLASS F, FLOWABLE FILL, EXCAVATABLE	СҮ	0	2	2
520.7002	CONCRETE BRIDGE DECK (QC/QA) (F)	СҮ	44	273	317
520.70028	CONCRETE BRIDGE DECK (QC/QA) (INTEGRALLY COLORED) (F)	СҮ	6	40	46
526.3	HIGH MOLECULAR WEIGHT METHACRYLATE CRACK SEALER	GAL	0	3	3
534.3	WATER REPELLENT (SILANE/SILOXANE)	GAL	16	92	108
536.11	EPOXY COATING FOR CONCRETE (F)	SF	0	195	195
538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	SY	12	12	24
540.42	SCUPPER (FRP)	ΕA	2	10	12
540.511	GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES)	LF	58	58	116
540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	ΕA	18	485	503
541.5	PVC WATERSTOPS, NH TYPE 5 (F)	LF	29	0	29
544.	REINFORCING STEEL (F)	LB	0	1453	1453
544.2	REINFORCING STEEL, EPOXY COATED (F)	LB	266	160	426
544.43	REINFORCING STEEL - CONTINUOUSLY GALVANIZED (F)	LB	11691	71819	83510
550.1	STRUCTURAL STEEL (F)	LB	19677	100442	120119
550.19	TEMPORARY STRUCTURE SUPPORT SYSTEM	U	0.14	0.86	1
550.406	STRUCTURAL STEEL REPAIR - RUST HOLE REPAIR	U	0	23	23
550.407	STRUCTURAL STEEL REPAIR - LACING BAR REPLACEMENT	U	1	3	4
556.101	PAINTING EXISTING STRUCTURAL STEEL	U	0.14	0.86	1
556.201	CONTAINMENT AND ENVIRONMENTAL PROTECTION	U	0.14	0.86	1
556.301	WORKER PROTECTION	U	0.14	0.86	1
556.401	WASTE MANAGEMENT	U	0.14	0.86	1
559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	LF	21	0	21
561.1001	PREFABRICATED STRIP SEAL EXPANSION JOINT (F)	LF	0	23	23
561.1002	PREFABRICATED STRIP SEAL EXPANSION JOINT (F)	LF	0	23	23
562.1	SILICONE JOINT SEALANT (F)	LF	16	7	23
563.238	BRIDGE RAIL T3 (GALV-POWDER COATED)	LF	132	811	943
565.2328	BRIDGE APPROACH RAIL T3 (STEEL POSTS) (GALV-POWDER COATED)		2	2	4
583.3	RIPRAP, CLASS III	CY	0	68	68
628.5	DIAMOND GRINDING CONCRETE PAVEMENT	SY	146	891	1037
645.0001	TURBIDITY BARRIER	LF	0	315	315
692.	MOBILIZATION		0.14	0.86	1
692. 1002.1	REPAIRS OR REPLACEMENTS AS NEEDED – BRIDGE STRUCTURES	U d		0.86 **	
		\$	**		**
1010.41 ** SEE PRC	QUALITY CONTROL / QUALITY ASSURANCE (QC/QA) FOR CONCRETE	\$	**	**	**

	I	Т	E	М		N	0
2 2					9		
6	1	4	•		4	4	9

# STRUCTURAL STEEL AND SUPERSTRUCTURE REHABILITATION NOTES

(21) JACKING AND SHORING IS REQUIRED TO REPLACE LATERAL BRACING GUSSET PLATES AT THE BEARINGS AND TO MAKE SUBSTRUCTURE REPAIRS AS NEEDED. THE DETAILS SHOWN IN THE PLANS ASSUME THE DGE WILL BE JACKED FROM THE NEW END FLOOR BEAMS AFTER THE EXISTING DECK AND UTILITY IDUITS ARE REMOVED. UNFACTORED JACKING DEAD LOAD PER BEARING IS ESTIMATED TO BE 55 TONS TH EXISTING DECK REMOVED. TEMPORARY SHIMS OR BLOCKS SHALL BE PLACED UNDER THE TRUSS(ES) ING THE TIME THAT JACKS ARE SUPPORTING THE LOADS. TEMPORARY LATERAL BRACING TO THE STRUCTURE SHALL BE INSTALLED AS DETERMINED BY THE CONTRACTOR. ALL JACKING AND SHORING NS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. CONTRACTOR SHALL SUBMIT STAMPED WORKING DRAWINGS AND CALCULATIONS FOR REVIEW AND UMENTATION IN ACCORDANCE WITH SECTION 105.02. ALL COSTS SHALL BE INCLUDED IN ITEM .19, TEMPORARY STRUCTURE SUPPORT SYSTEM, FOR JACKING POINTS SEE BRIDGE SHEET 18.

CONTRACTOR SHALL TAKE FIELD MEASUREMENTS TO DETERMINE ALL DIMENSIONS NECESSARY TO PARE DETAILED SHOP DRAWINGS FOR APPROVAL. SHOP DRAWINGS SHALL INCLUDE ACTUAL FIELD SUREMENTS AND FIELD MEASURED DIMENSIONS SHALL BE NOTED, ALL COSTS INCLUDED IN ITEM 550,1 550.40X.

MBER IS NOT REQUIRED FOR THE STRINGERS AND FLOOR BEAMS, PROVIDE ANY NATURAL CAMBER UP,

T HOLES AND SIGNIFICANT PITTING IN TRUSS VERTICALS AND DIAGONALS SHALL BE REPAIRED IN ORDANCE WITH DETAILS ON THE PLANS AND MEASUREMENTS TAKEN IN THE FIELD. ALL COSTS FOR AIR PLATES, ANGLES, STRUCTURAL FASTENERS, FIELD DRILLING, AND SEALING IS INCLUDED IN EM 550.406, STRUCTURAL STEEL REPAIR - RUST HOLE REPAIR.

TERIORATED LACING BARS SHALL BE REMOVED AND REPLACED IN ACCORDANCE WITH DETAILS ON THE NS AND MEASUREMENTS TAKEN IN THE FIELD. ALL COSTS FOR LACING BARS AND STRUCTURAL TENERS IS INCLUDED IN ITEM 550.407, STRUCTURAL STEEL REPAIR - LACING BAR REPLACEMENT.

KISTING BRIDGE SHOE ANCHOR BOLTS SHALL BE INSPECTED JOINTLY BY THE CONTRACT ADMINISTRATOR CONTRACTOR. ANY APPROVED REPAIRS REQUIRED BY THE DEPARTMENT, SHALL BE PERFORMED BY THE CONTRACTOR AS SHOWN ON THE ANCHOR BOLT EXTENSION DETAIL (BRIDGE SHEET 21), AND PAID UNDER ITEM 1002.1, REPAIRS OR REPLACEMENTS AS NEEDED BRIDGE STRUCTURES. ANCHOR BOLT EXTENSIONS, IF NEEDED, SHALL BE FABRICATED IN ACCORDANCE WITH SECTION 550.2.5.

	SUMMARY OF QUANTITIES (NON-PARTICIPATING ITEMS)	)	
•	ITEM DESCRIPTION	UNIT	TOTAL
		<u> </u>	4.5
	COMMON STRUCTURE EXCAVATION - EXPLORATORY	СҮ	15
	ROCK STRUCTURE EXCAVATION	CY	4
	4" 4-DUCT CONDUIT CONCRETE ENCASED	LF	47
9	4" 4-DUCT FIBERGLASS CONDUIT (BRIDGE MOUNTED) (SUPPLIED BY OTHERS)	LF	483

# REINFORCING STEEL NOTES

- COSTS SHALL BE SUBSIDIARY.
- (4) REINFORCING LEGEND:

Stantec SUBDIRECTORY .DGN LOCATOR

14 BridgeNotes 2

BRC

SHEET SCALE AS NOTED

(1) REINFORCING STEEL SHALL HAVE  $2^{1}/2^{\prime\prime}$  MINIMUM CLEAR COVER, UNLESS OTHERWISE NOTED.

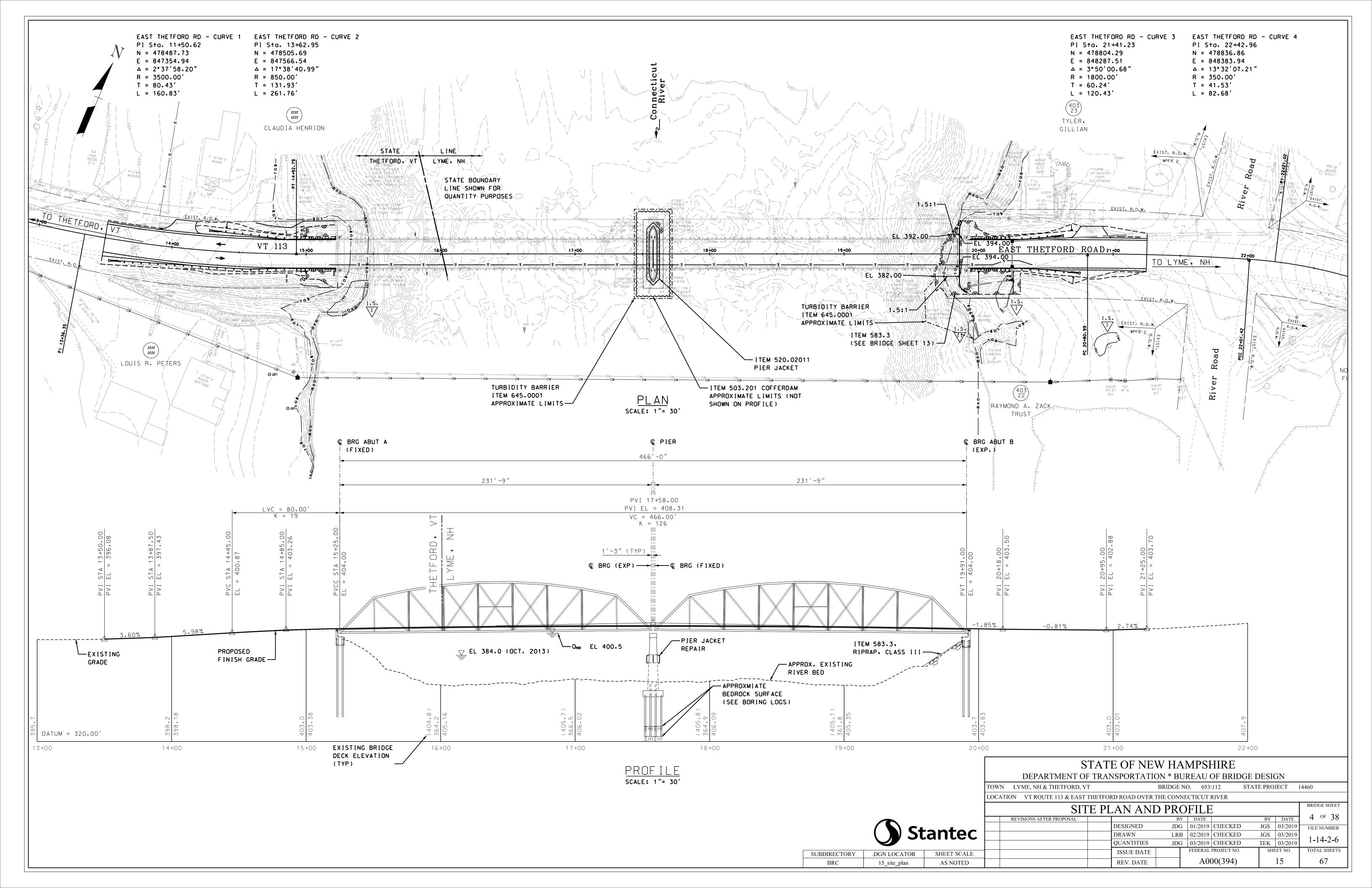
(2) PLACE REINFORCING STEEL TO AVOID RAIL POST ANCHOR ASSEMBLIES AND EXPANSION JOINT STEEL.

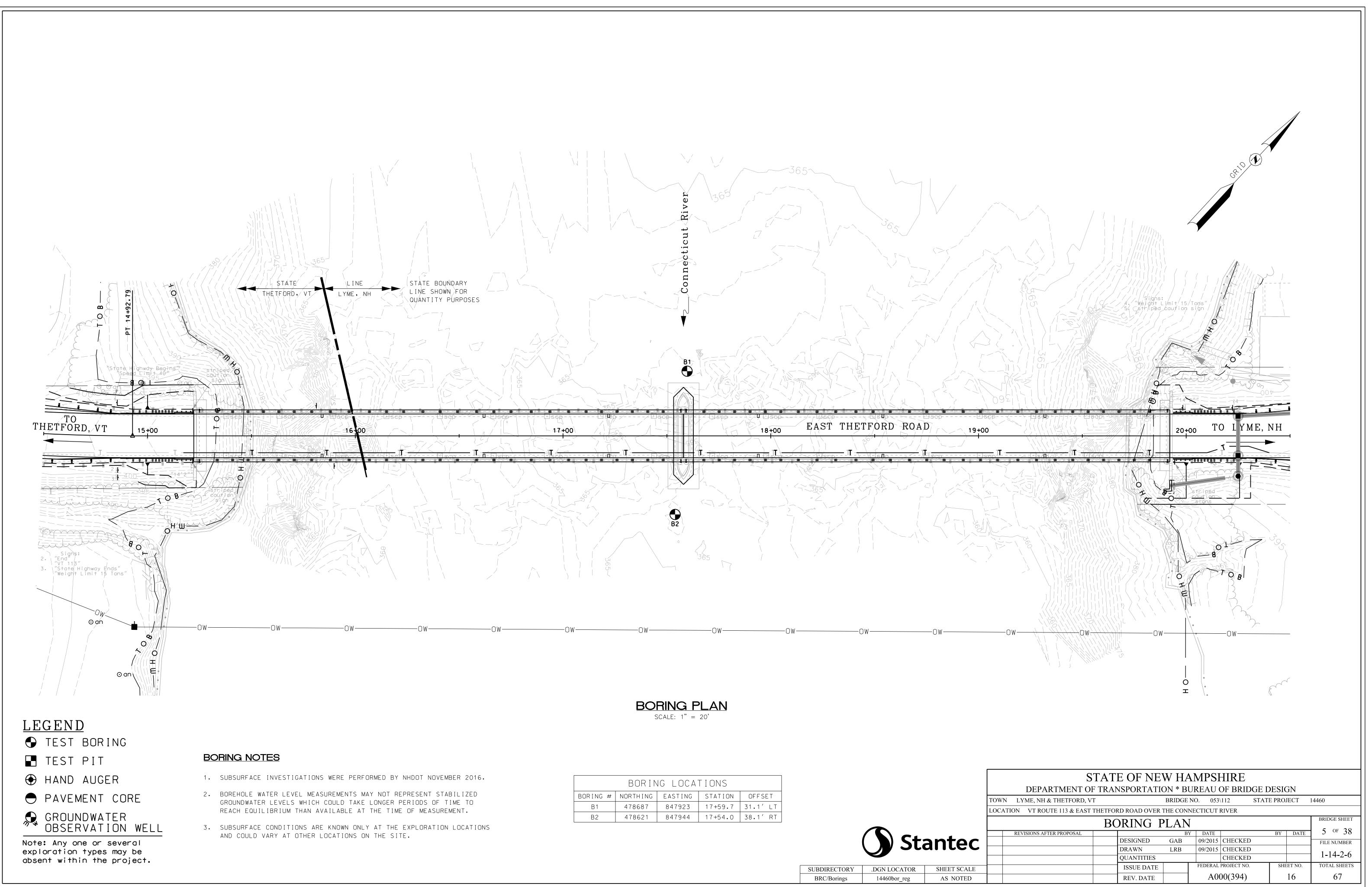
(3) ANY COATED REINFORCING STEEL CUT TO FIT SHALL BE TOUCHED UP IN ACCORDANCE WITH 544. ALL

ΑL Τ	=	ALTERNATE	MID	=	MIDDLE
BOT	=	BOTTOM	MIN	=	MINIMUM
BRG	=	BEARING	NS	=	NEAR SIDE
CG	=	CONTINUOUSLY GALVANIZED	SECT	=	SECTION
CLR	=	CLEAR	SP	=	SPACES
)OW	=	DOWEL	SPL	=	SPLICE
-	=	EPOXY COATED	SYM	=	SYMMETRICAL
Q	=	EQUAL	ΤΥΡ	=	TYPICAL
S	=	FAR SIDE			
ΛAΝ	=	MAXIMUM			

MC = MECHANICAL CONNECTOR

S	STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN												
FOWNLYME, NH & THETFORD, VTBRIDGE NO.053\112STATE PROJECT14460												
LOCATION VT ROUTE 113 & EAST	THETFOR	RD ROAD OVER 7	THE CON	NECTICUT	RIVER							
BRIDGE NOTES	BRIDGE NOTES & SUMMARY QUANTITIES (2 OF 2)											
REVISIONS AFTER PROPOSAL			B	Y DATE		BY	DATE	3 of 38				
		DESIGNED	JDC	6 01/2019	CHECKED	DDT	02/2021	FILE NUMBER				
		DRAWN	LRE	3 02/2019	CHECKED	DDT	02/2021	1 1 4 2 (				
		QUANTITIES	JDC	G 02/2021	CHECKED	TEK	02/2021	1-14-2-6				
	ISSUE DATE FEDERAL PROJECT NO. SHEET NO. TOTAL SHEETS											
REV. DATE A000(394) 14 6												





BORING	G	PLAN
SCALE:	1"=	= 20'

	BORING LOCATIONS												
BORING # NORTHING EASTING STATION OFFSET													
B1	B1 478687 847923 17+59.7 31.1'L												
B2 478621 847944 17+54.0 38.1' RT													

M PRO	IATERIA JECT N	NEW H ALS & R IAME_L	IAMPS ESEAF YME, 1	HIRE DI RCH BU	EPARTN REAU - ETFORE		F TRAI CHNIC	NSPORTA AL SECTI BRII		3/112	STA. 107+59.7 BASELINE	1OF OFFLT. 3
DESC		GROUN	DWATEF		воттом	EQUIPN TYPE: SIZE I.D. ( HAMMER HAMMER HAMMER	(in): WT. (lb): FALL (in)	SAMPLER S 1.375 140 30 Safety	CASING C NW 3 DRILL R CME 45-C	-	• · · · · · · · · · · · · · · · · · · ·	11/9/16 / 11/1 ad Enos (NE Mirsad Aliho Mirsad Aliho
DEPTH (ft)	1	I CHANGE (ft	PER	SAMPLE	SAMPLEF RECOVER (ft) [%]	DEPTH			D CLASSIFIC		AND REMARK	
_ 0			WOR/2'		0.0 [0]	0.0	(Mudli ±383.7		ion ±364.0, 19.	7 feet b	elow the river level	elevation of
					0.0 [0]	2.0	No rec	covery.				•
			WOR 1			3.0						
_ 5	_		1	S-2	0.3 [15]	5.0	Very lo	oose, gray, s	silty COARSE ·	FINE S	SAND.	
												-
												- - - -
(0)			2 3 3	S-3	0.9 [45]	8.0	Loose	, gray, silty (	COARSE - FIN	E SANI	Э.	- - - - - - - - 
90- H 10	_		15	)		10.0						
10:58:30 AM												• • •
11/18/2016 1			WOR 2	S-4	1.4 [70]	13.0						
115.GP 117.GP	_		1		1.4 [70]	15.0	very id	oose, gray, s	silty MEDIUM -	FINE 5	AND.	
053												- - - - - - - - - - - - - 
BRIDGE			WOR			18.0			- SIL	TY SAN	ND -	- - - - - - -
DOT LYME NH 20 - 20 -			2 3	S-5	1.7 [85]	20.0	Loose	, gray, silty l	FINE SAND.			
1	_					20.0						
190236.0												
PROJECT DATABASES/04.0190236.02			WOH	S-6	1.1 [55]	23.0	Loose	. gravi siltvi	FINE SAND.			
SABARA	_		3			25.0	20036	, gray, onty I				
(OJECT I												- - - - -
			WOH 1			28.0						
VGZAMAN1/JOBS/04JOBSINT Samble S C C L C Samble S C C A S C C C C C C C C C C C C C C C C C C C	Large S Thin Wa	rd Split Spo Spoon (O.D all Tube Irbed Pistor	9.= 3 in)	Blows, 0 - 2 - 5 - 9 -	1 4 8 15	E SOILS Consistenc Very Soft Soft Medium St Stiff	iff 1	NON-COH Blows/foot 0 - 4 5 - 10 11 - 24 25 - 50	ESIVE SOILS Density Very Loose Loose Medium Dense Dense	Ca Lo So Lit	bil Descriptions apitalized Soil Name ower Case Adjective ome tle ace	Froportion Major Compo 35% - 50% 20% - 35% 10% - 20% 1% - 10%
A (67 90-91 NR	Auger F Core Ba	Flight		16 31 > 60	30 60	Very Stiff Hard Very Hard	V	> 50 VOR - Weight VOH - Weight			ENGL	

BORING NO. B-1 STA. 17+59.7, 30.8' LT

# **TEST BORING REPORT**

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSP MATERIALS & RESEARCH BUREAU - GEOTECHNICAL PROJECT NAME\_LYME, NH-THETFORD, VT\_14460 DESCRIPTION VT Route 113 Bridge

	DESCI	RIPTIC	N <u>VT</u>	Route	113 Bi	ridge		
	DEPTH (ft)	STRATUM DEPTH	CHANGE (ft) ELEVATION	BLOWS PER 0.5 ft	SAMPLE NUMBER	SAMPLER RECOVERY (ft) [%]	DEPTH RANGE (ft)	
	_ 30 _			1	S-7	1.1 [55]	30.0	Very loose,
	_ 35 _			15 8 5 3	S-8	0.0 [0]	33.0 35.0	No recovery
	_ 40 _	35.9	328.1		C-1	2.6 [87]	37.0 40.0 40.0	Advanced e to seat casi Hard, slight grained, GF undulating, core. RQD = 2.5/
10:58:30 AM TB-06	45				C-2	4.8 [96]	45.0	Hard, fresh GREENSC Occasional RQD = 4.2/
GE 053 112.GPJ 11/18/2016	_ 45 _				C-3	5.0 [100]	45.0	Hard, fresh GREENSC band at 47. RQD = 4.0/
DATABASES\04.0190236.02 - DOT LYME NH BRIDGE 053 112.GPJ 11/18/2016 10:58:30 AM	_ 50 _				C-4	4.8 [96]	50.0 50.0 55.0	Hard, fresh GREENSC Occasional RQD = 4.2/
	_ 55 _				C-5	4.8 [96]	55.0	Hard, fresh GREENSC RQD = 4.2/
TB-06 \GZAMAN1\JOBS\04JOBSINT PROJECT	_ 60 _				C-6	5.0 [100]	60.0 60.0	Hard, fresh GREENSC band at 62. RQD = 2.4/
TB-06 \G	_ 65 _						65.0 65.0	

# BORING NO

TOWN LOCATI

**Stantec** .DGN LOCATOR SHEET SCALE SUBDIRECTORY 14460bor log1 AS NOTED BRC

	BORING	NO.	B-1				
PORTATION	SHEET NO			3			
SECTION	STA. 107+	-		30'-10"			
BRIDGE NO. 053/112	BASELINE						
	ELEVATION	. ,	364.				
FIELD CLASSIFICATION	I AND REMA	RKS		STRATUM SYMBOL			
e, gray, silty FINE SAND.							
			_				
ery.							
- SILTY S	AND -						
- APPROXIMATE BED l exploration through weathered			roller bit				
sing at 37 feet.							
htly weathered, moderately frac GREENSCHIST, joints are close	e to slightly spa	aced, lov	<i>w</i> angle,				
g, rough. Occasional ¼-inch or	less quartz vei	ns throu	ighout				
5/3.0 = 83%							
h moderately freetured green	to arou find ar	ainad					
h, moderately fractured, green CHIST, joints are close, low an	gle, undulating	, rough.					
al ¼-inch or less quartz veins tł 2/5.0 = 84%	rougnout core	•					
			_				
h, moderately fractured, green	to gray, fine gr	ained.					
CHIST, joints are close, low an 7.8 to 48.1 feet.			Quartz				
0/5.0 = 80%							
			_				
h, moderately fractured, green							
CHIST, joints are close, low an al ½-inch or less quartz veins th							
2/5.0 = 84%							
			_				
h, moderately fractured, green							
CHIST, joints are close, low an 2/5.0 = 84%	gle, undulating	, rough.					
			_				
b moderately fractured groop	to aray fino ar	ainad					
h, moderately fractured, green CHIST, joints are close, low an	gle, undulating		Quartz				
2.9 to 63.1 feet and 63.7 to 64 4/5.0 = 48%	ieet.						
			_				
<u>). B−1</u>							
)							
	TE OF NE						
DEPARTMENT OF TRA	NSPORTATIO	DN * BU BRIDGE			DESIC TE PROJ		4460
TON VT ROUTE 113 & EAST THETFO	ORD ROAD OVER						
	ING LOG		/				BRIDGE SHEET
REVISIONS AFTER PROPOSAL	DESIGNED	BY NHDO		CHECKED	BY	DATE	6 OF 38 FILE NUMBER
	DRAWN QUANTITIES	LRI	3 12/2016	CHECKED CHECKED			1-14-2-6
	ISSUE DATE			PROJECT NO.		ET NO.	TOTAL SHEETS
	REV. DATE		A00	0(394)		17	67

	STATE OF NEW H	HAMPSHII RESEARC LYME, NH	H BUREA	RTMENT C J - GEOTE RD. VT 1	OF TRANSPORTATION ECHNICAL SECTION	53/112 B	BORING NO. HEET NO. 3 TA. 107+59.7 ASELINE LEVATION (ft)	OF OFF. <u>_LT.</u>	3 30'-10"
	DEPTH STRATUM CHANGE ( (ft) DEPTH ELEVATIO				FIELD CLASSIFI				STRATUM SYMBOL
	UPTH ELEVATIO		C-7 2.0 [		Hard, fresh, moderately fracture GREENSCHIST, joints are clos infilling. RQD = 0/2.0 = 0%				STINBUL
				67.0	infilling. RQD = 0/2.0 = 0% Bottom of Explora	ation @ 67.0	0 ft (El. 297.0)		
	_ 70 _								
-	_ 75 _								
TB-06									
:30 AM	_ 80 _								
6 10:58:									
1/18/2014									
GPJ 11									
053 112.(	_ 85 _								
RIDGE 0									
E NH BF									
OT LYM									
6.02 - DOT	_ 90 _								
0190236									
SES\04.(									
ATABAS									
JECT D	_ 95 _								
NT PRO									
4JOBSII									
OBS/0									
ZAMAN1	_ 100 _								
3-06 \Gz									
μ	I			<u> </u>					
				BOF	RING NO. B-1				
					CONTINUED				



BRC

	STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOV	TOWN LYME, NH & THETFORD, VT BRIDGE NO. 053\112 STATE PROJECT 14460											
LOC	LOCATION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER											
	BORING LOG (2 OF 3) BRIDGE SHEET											
	REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	7 OF 38				
		DESIGNED	NHDO	T 11/2016	CHECKED			FILE NUMBER				
		DRAWN	LRB	12/2016	CHECKED			1 1 4 9 6				
		QUANTITIES			CHECKED			1-14-2-6				
+		ISSUE DATE		FEDERAL	PROJECT NO.	SHI	EET NO.	TOTAL SHEETS				
		REV. DATE		A000(394)			18	67				

MA PROJE	TE OF NEW H	AMPSHIR ESEARCH (ME, NH-	E DEF BURI	EAU - GEOTE FORD, VT 1	OF TRANSPORTATION ECHNICAL SECTION	ELEVATION (ft) 363	2 . 38'-2" 3.5	MATE PROJEC DESCRIE	OF NEW HAMPSH ERIALS & RESEAR T NAME_LYME, N PTION_VT Route	CH BURI <u>H-THET</u> 113 Bric	PARTMI EAU - G FORD,	ENT OF GEOTEC	TRANSPORT
DATE	GROUNE	ELEV. BOT		EQUIPI	S NW	START/END 11/8/16 / 11 DRILLER Brad Enos (N	EBC)		RATUM CHANGE (ft) BLOWS PER EPTH ELEVATION 0.5 ft	SAMPLE S NUMBER	AMPLER COVERY (ft) [%]	DEPTH RANGE (ft)	FIEL
DATE		(ft) OF CA	ASING OI	HOLE SIZE I.D. HAMMER	RWT. (Ib): 140 DRILL RIG	INSPECTOR Mirsad Alil CLASSIFIER Mirsad Alil	hodzic	_ 30 _				29.0	- Advanced explor
DEPTH (ft) O	STRATUM CHANGE (ft) DEPTH ELEVATION	BLOWS PER 0.5 ft	MPLE S. MBER	HAMMER AMPLER DEPTH COVERY RANGE (ft) [%] (ft)	R TYPE: Safety CME 45-C Barge		STRATUM SYMBOL			C-1 5	5.0 [100]		Hard, slightly wea GREENSCHIST, undulating, rough core.
0		WOR 1 1	6-1	0.0 [0]	(Mudline at elevation ±363.5, 20.5 feet b ±384)	below the river level elevation of						34.0	RQD = 4.7/5.0 =
5 _		WOH 1 5 6	5-2 <sup>-</sup>	2.0 2.0 4.0 1.1 [55] 6.0	No recovery. Very loose, gray, silty COARSE - FINE \$	SAND, trace gravel.		_ 35 _		C-2 5	5.0 [100]		Hard, slightly wea GREENSCHIST, undulating, rough core. RQD = 2.0/5.0 =
10 —		1 1 2 4	5-3 (	9.0 0.7 [35] 11.0	Very loose, gray, silty MEDIUM - FINE S	SAND.		– 40 –		C-3	4.8 [96]	39.0	Hard, fresh, highl GREENSCHIST, undulating, rough occasional 1/4-incl RQD = 3.8/5.0 =
15 —		WOH	5-4 (	D.7 [35]	- SILTY SA			3 112.GPJ 11/18/2016 10:58:3		C-4 4	4.8 [96]		Hard, fresh, highl GREENSCHIST, undulating, rough throughout core. RQD = 4.8/5.0 = 9
20 —		2 1 2 4	6-5 (	).9 [45] 21.0	Very loose, gray, silty FINE SAND.	-		2 - DOT LYME NH BRIDGE 05		C-5 4	4.7 [94]		Hard, fresh, highl GREENSCHIST, undulating, rough 51.1 feet and 53.2 veins throughout RQD = 4.3/5.0 = 5
25 —	23.8 339.7	35 53 56 36	S-6	24.0 1.0 [50] 26.0	Very dense, gray, silty COARSE - FINE - SILTY GRAV	-		CT DATABASES\04.0190236.02		C-6 5	5.0 [100]		Hard, fresh, highl GREENSCHIST, undulating, rough quartz veins throu RQD = 3.5/5.0 =
Sampler	28.2 335.3 Identification		C(	DHESIVE SOILS	NON-COHESIVE SOILS S	oil Descriptions Proportion		04JOBSINT PROJEC				59.0	Bot
S SL T U O A	Standard Split Spo Large Spoon (O.D. Thin Wall Tube Undisturbed Piston Open End Rod Auger Flight Core Barrel	= 3 in)	<u>Blows/foo</u> 0 - 2 - 5 -	otConsistend1Very Soft4Soft8Medium Si5Stiff60Very Stiff	$\begin{array}{c c} \underline{Cy} & \underline{Blows/foot} & \underline{Density} & \overline{C} \\ \hline 0 & 4 & \overline{Very \ Loose} & Loose \\ 5 & 10 & Loose & S \\ \hline 11 & 24 & Medium \ Dense & Li \\ 25 & 50 & Dense & T \\ \hline > 50 & Very \ Dense & - \\ \hline \end{array}$	apitalized Soil NameMajor Comower Case Adjective35% - 50%ome20% - 35%ittle10% - 20%race1% - 10%	/о /о /о	06 \GZAMAN1JOBS\(					
	Not Recorded		> 60	Very Hard	WOR - Weight of Rod WOH - Weight of Hammer	ENGLISH							

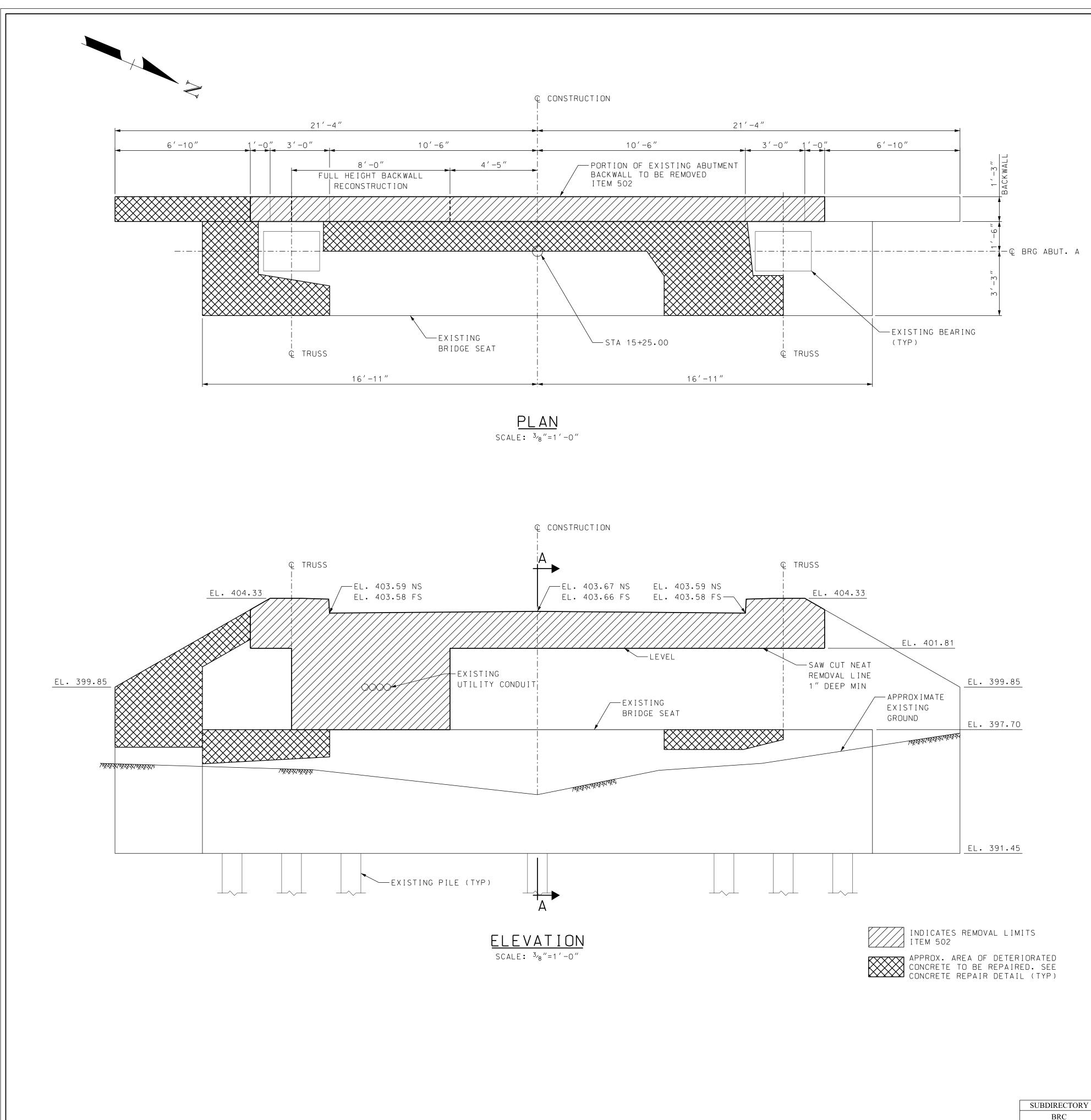
STA. 17+53.9, 38.2' LT

CONTI

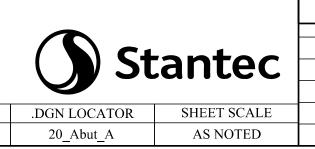
TOWN LOCATIO **Stantec** 

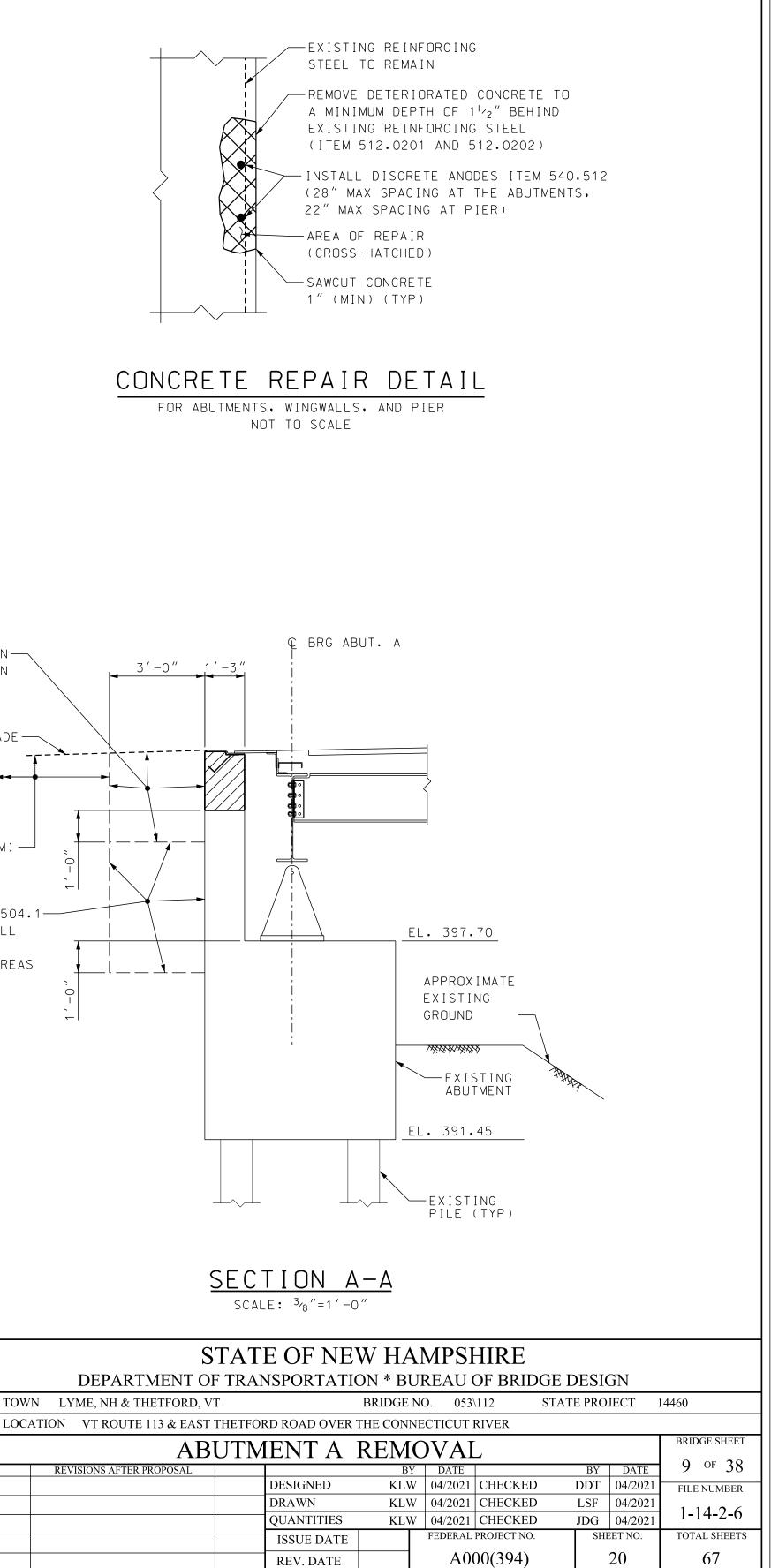
.DGN LOCATOR SHEET SCALE SUBDIRECTORY 14460bor log3 AS NOTED BRC

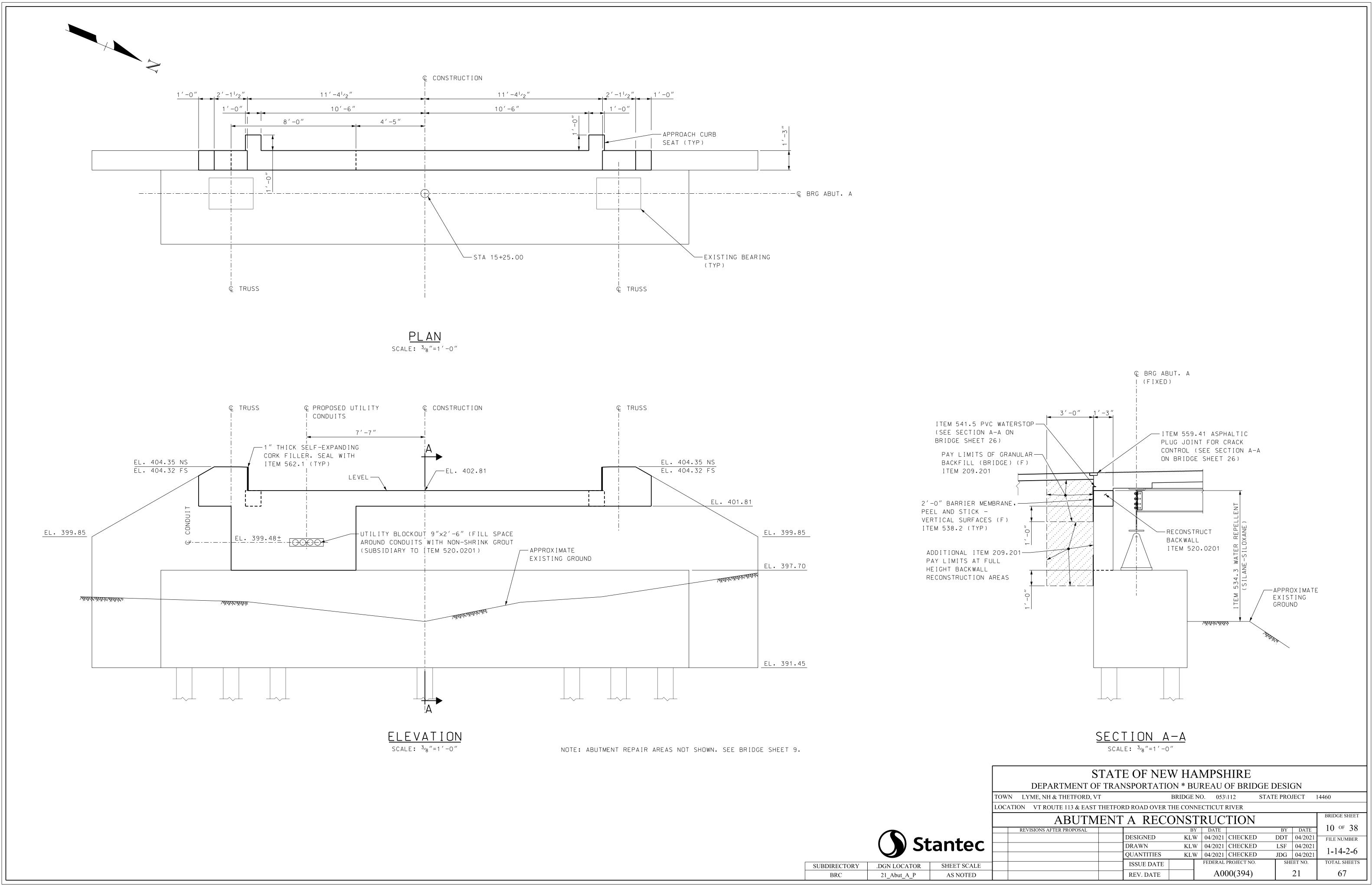
	BORING N	10.	B-2			
RTATION ECTION BRIDGE NO. 053/112	SHEET NO					
	BASELINE ELEVATION (	(ft)	363.5			
FIELD CLASSIFICATION		. ,	STRATUM SYMBOL			
- APPROXIMATE BEDR			asing.			
v weathered, highly fractured IST, joints are close to mod ough. Occasional ¼-inch or	d, green to gray, f erately spaced, lo	ine grain ow angle	ed,			
.0 = 94%	····	g.				
weathered, highly fractured IST, joints are close to mod ough. Occasional ¼-inch or	erately spaced, lo	ow angle	, 2////			
.0 = 40%	less qualiz veills	unougn				
highly fractured, green to gra IST, joints are close to mod ough to smooth. Quartz ban	erately spaced, lo					
á-inch or less quartz veins th .0 = 76%						
highly fractured, green to gra IST, joints are close to mod	erately spaced, lo					
ough to smooth. Occasional ore. .0 = 96%	'⁄₄-inch or less qi	uartz vei	ns			
highly fractured, green to gra IST, joints are close to mod	erately spaced, lo					
ough to smooth, with silt infi I 53.2 to 53.5 feet, with occa nout core. .0 = 86%						
highly fractured, green to gr						
IST, joints are close to mod ough to smooth, with silt infi throughout core. .0 = 70%	lling. Occasional	w angle ¼-inch o	r less			
Bottom of Exploration @ 5	59.0 ft (El. 304.5)	)				
NO. B-2 Inued						
STA DEPARTMENT OF TH	TE OF NE			DGE DES	IGN	
LYME, NH & THETFORD, VT ON VT ROUTE 113 & EAST THE		BRIDGE N	NO. 053\112	STATE PR		14460
	RING LOG					BRIDGE SHEET
REVISIONS AFTER PROPOSAL	DESIGNED	BY NHDO	DATE	BY	Z DATE	8 OF 38
	DRAWN	LRB	12/2016 CHECKED	)		FILE NUMBER $1_1/_2_6$
	QUANTITIES ISSUE DATE		FEDERAL PROJECT NO.		HEET NO.	1-14-2-6 TOTAL SHEETS
	REV. DATE		A000(394)		19	67

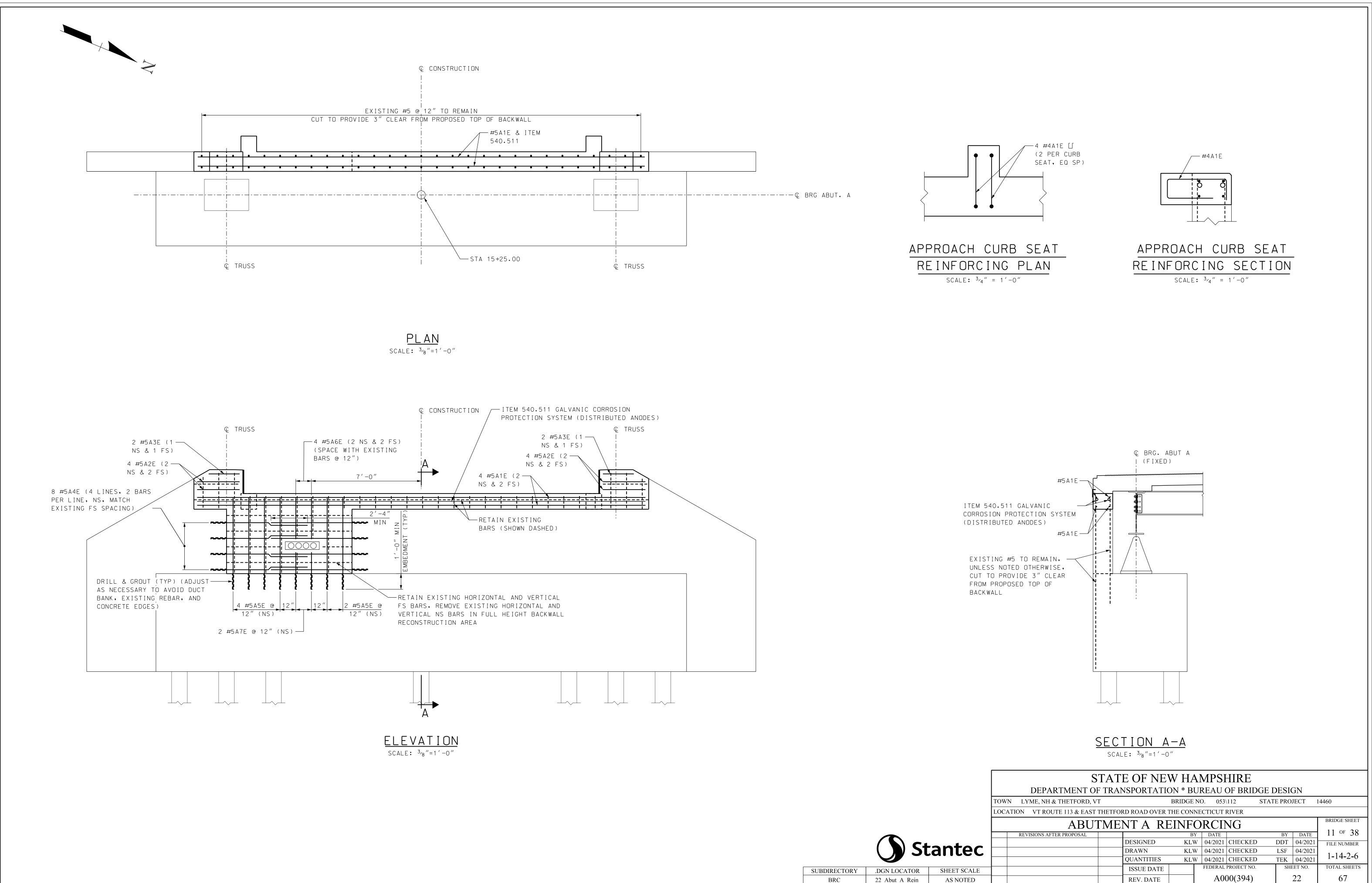


PAY LIMITS COMMON BRIDGE EXCAVATION (F) ITEM 504.1
APPROXIMATE EXISTING GRADE ——
PAY LIMITS COMMON EXCAVATION ITEM 203.1 (ROADWAY ITEM)
ADDITIONAL ITEM 504.1— PAY LIMITS AT FULL HEIGHT BACKWALL RECONSTRUCTION AREAS





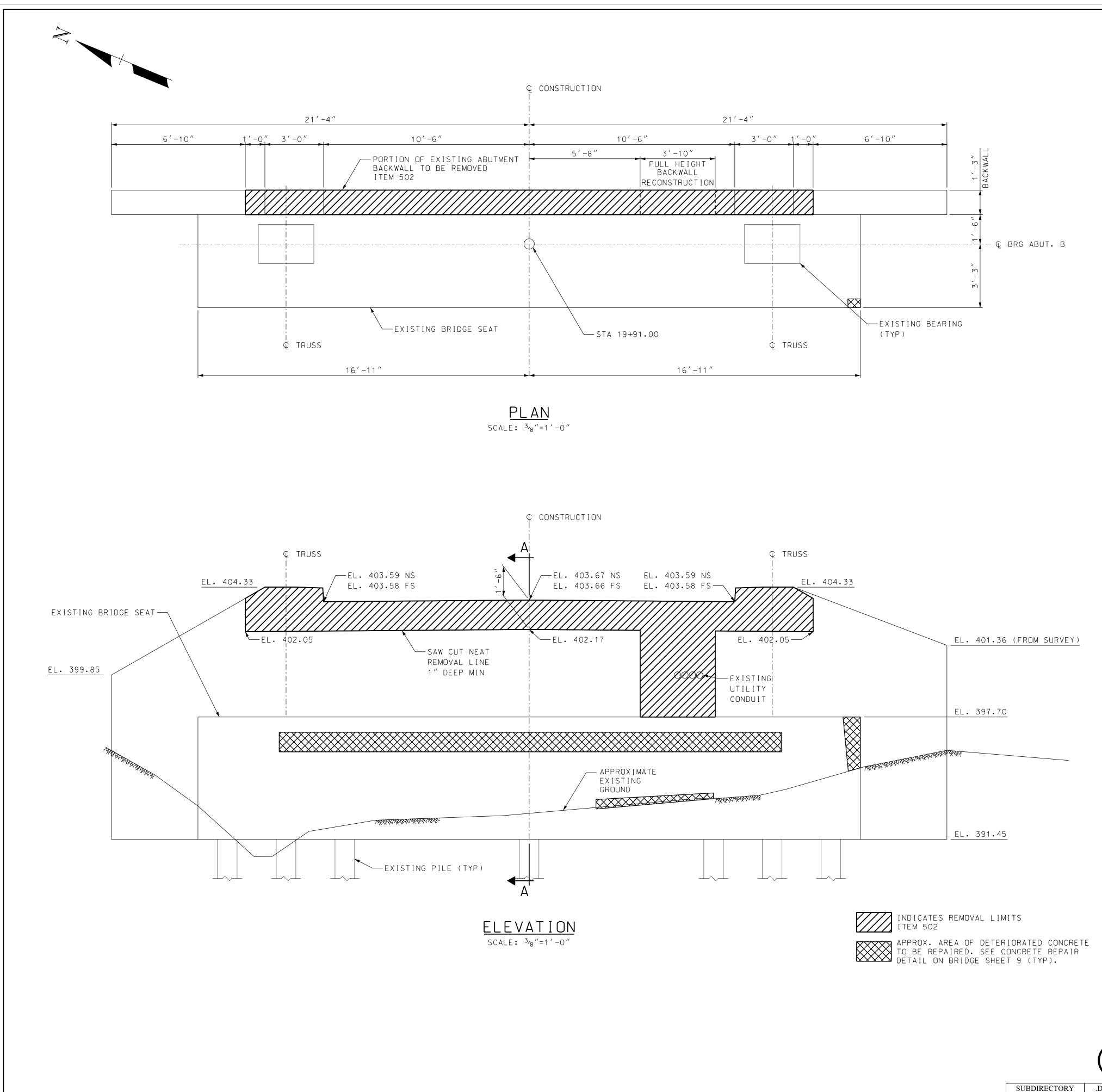




AS NOTED

BRC

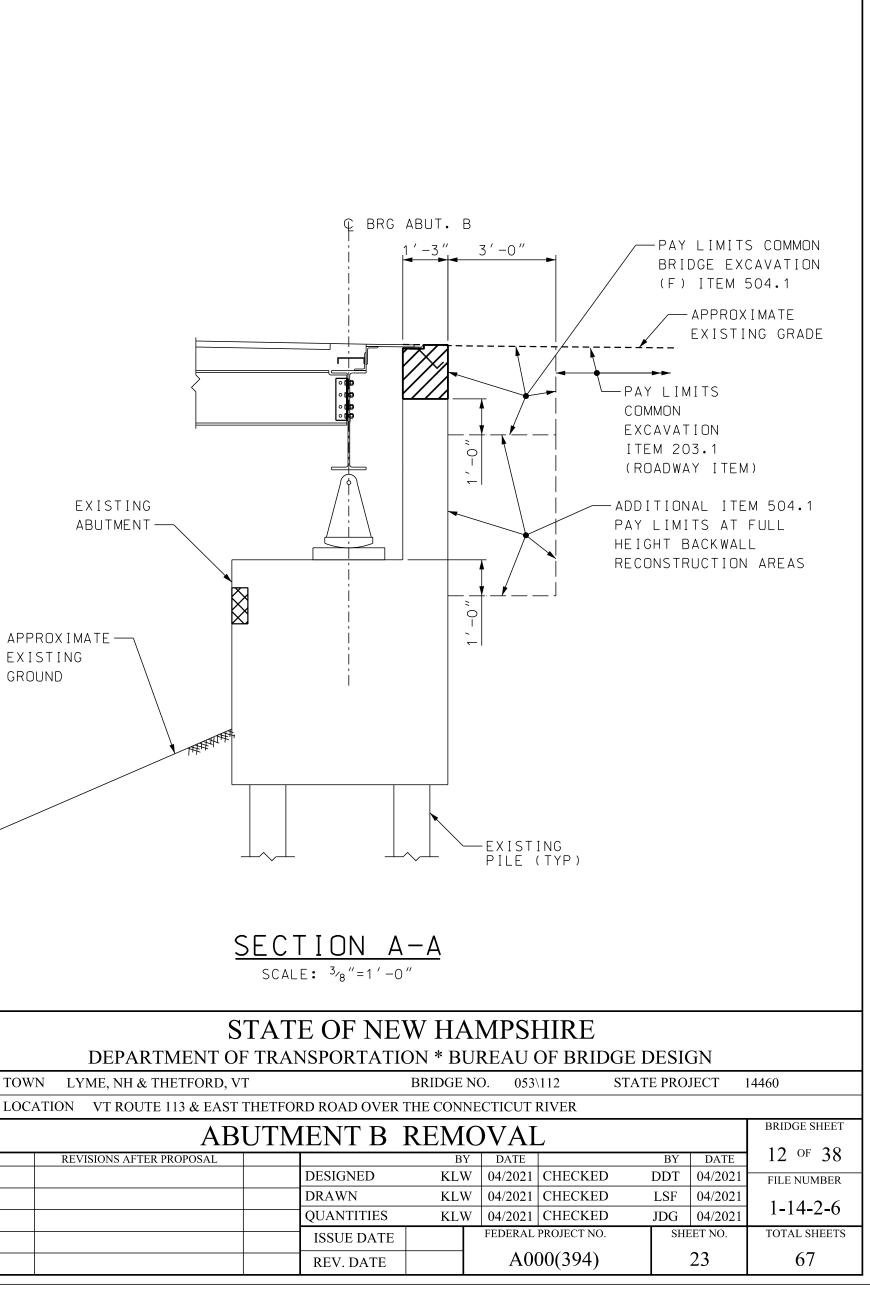
22 Abut A Rein

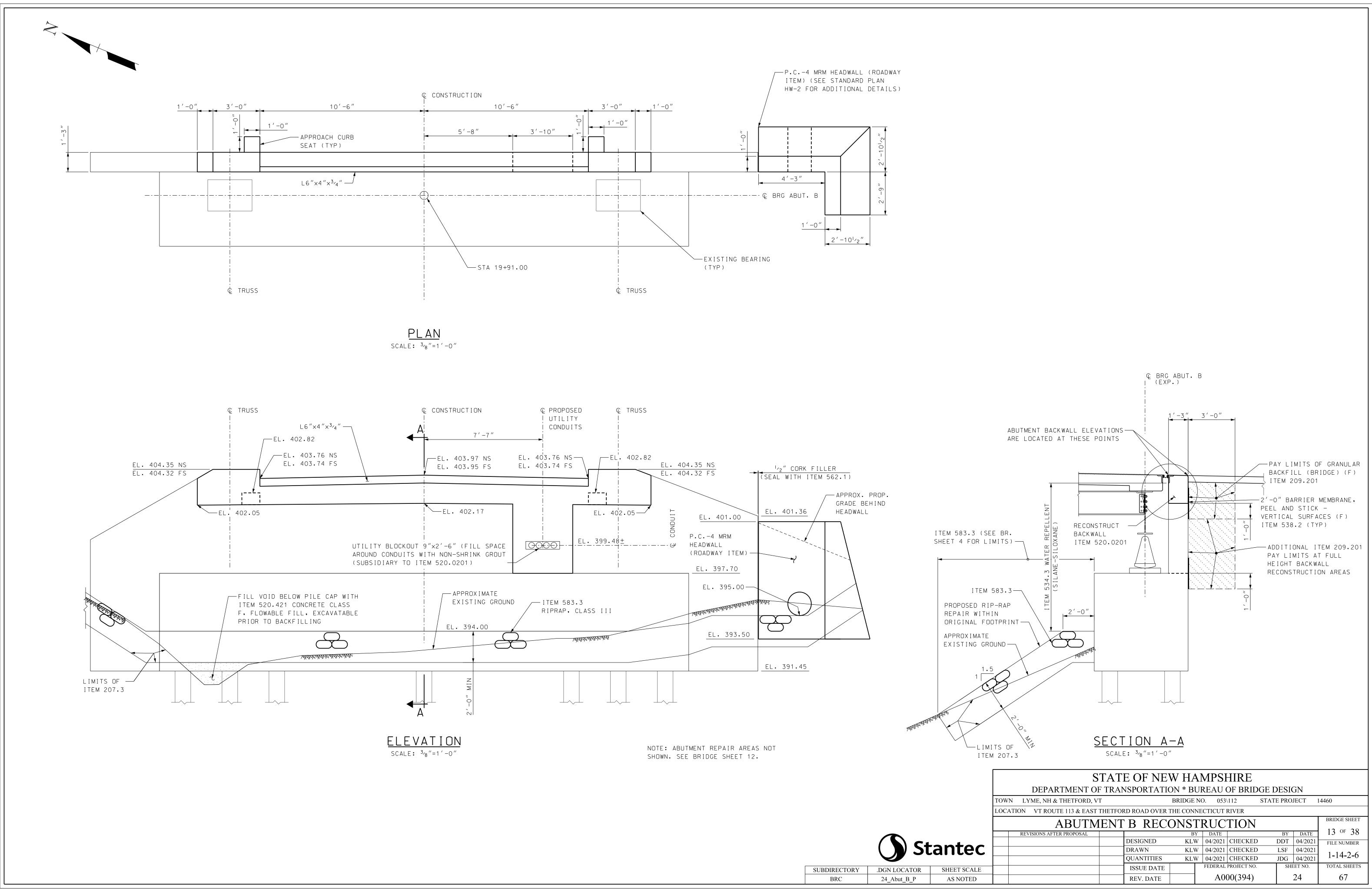


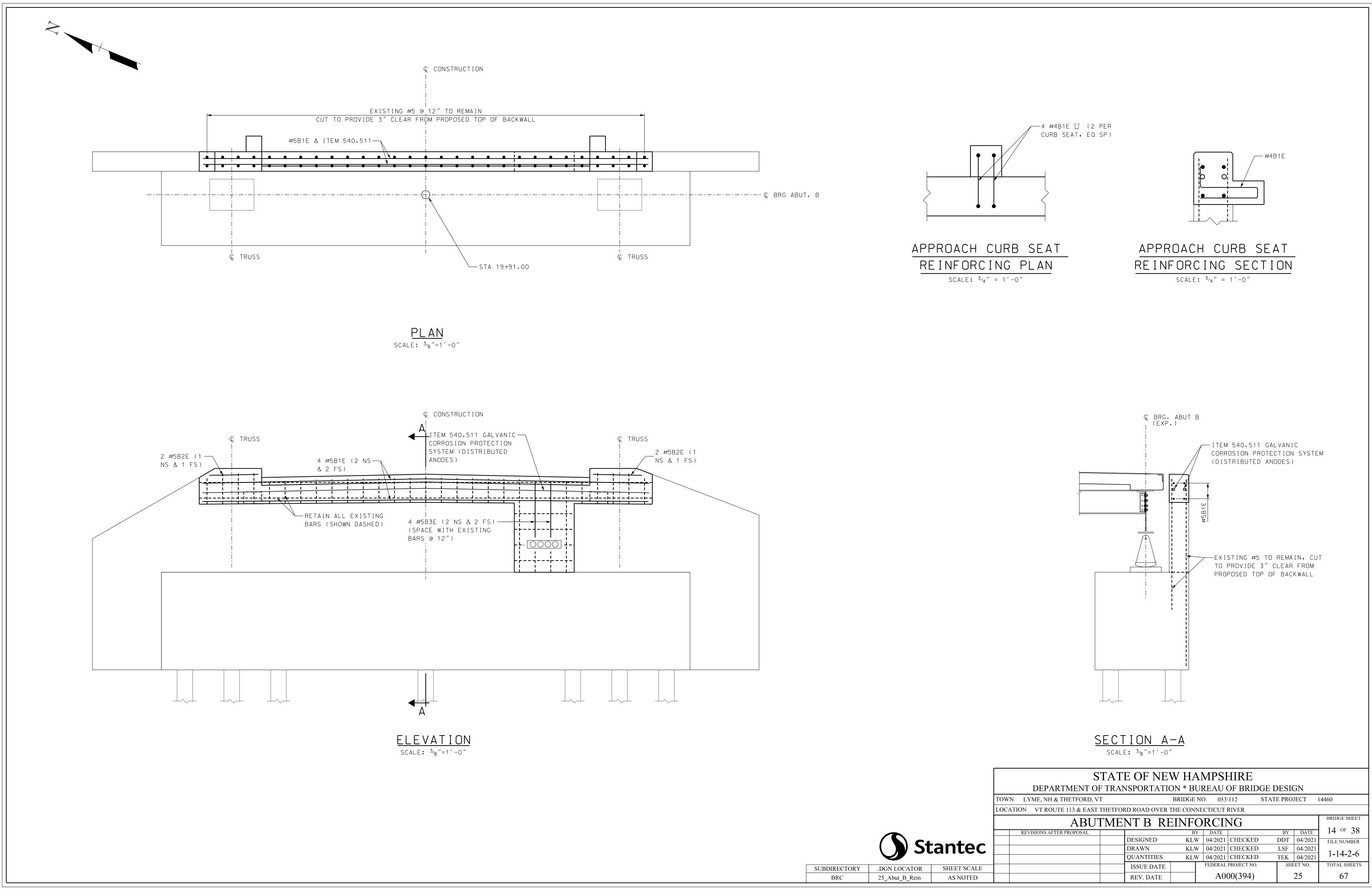
EXISTING GROUND

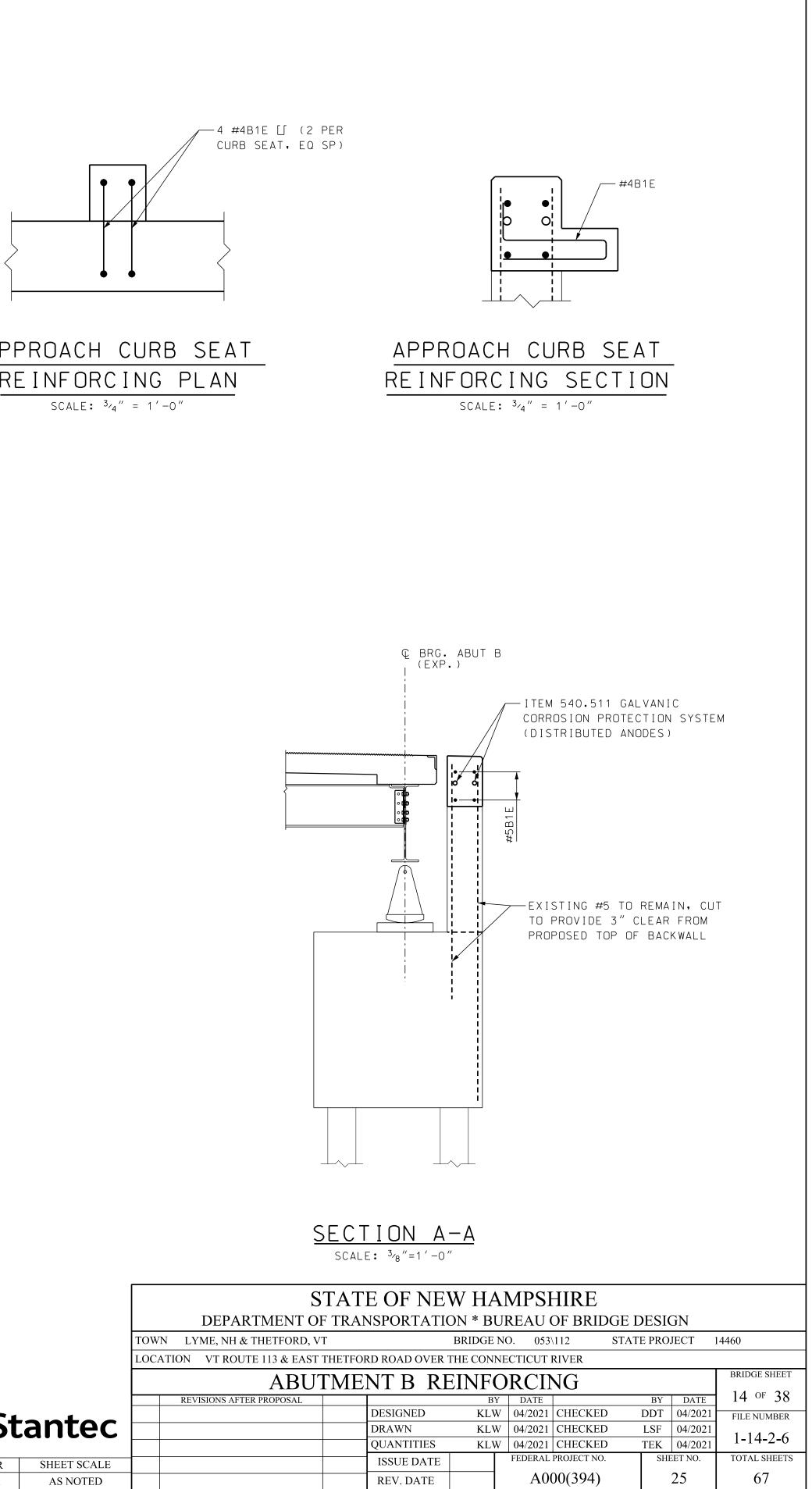
Stantec SHEET SCALE .DGN LOCATOR 23 Abut B AS NOTED

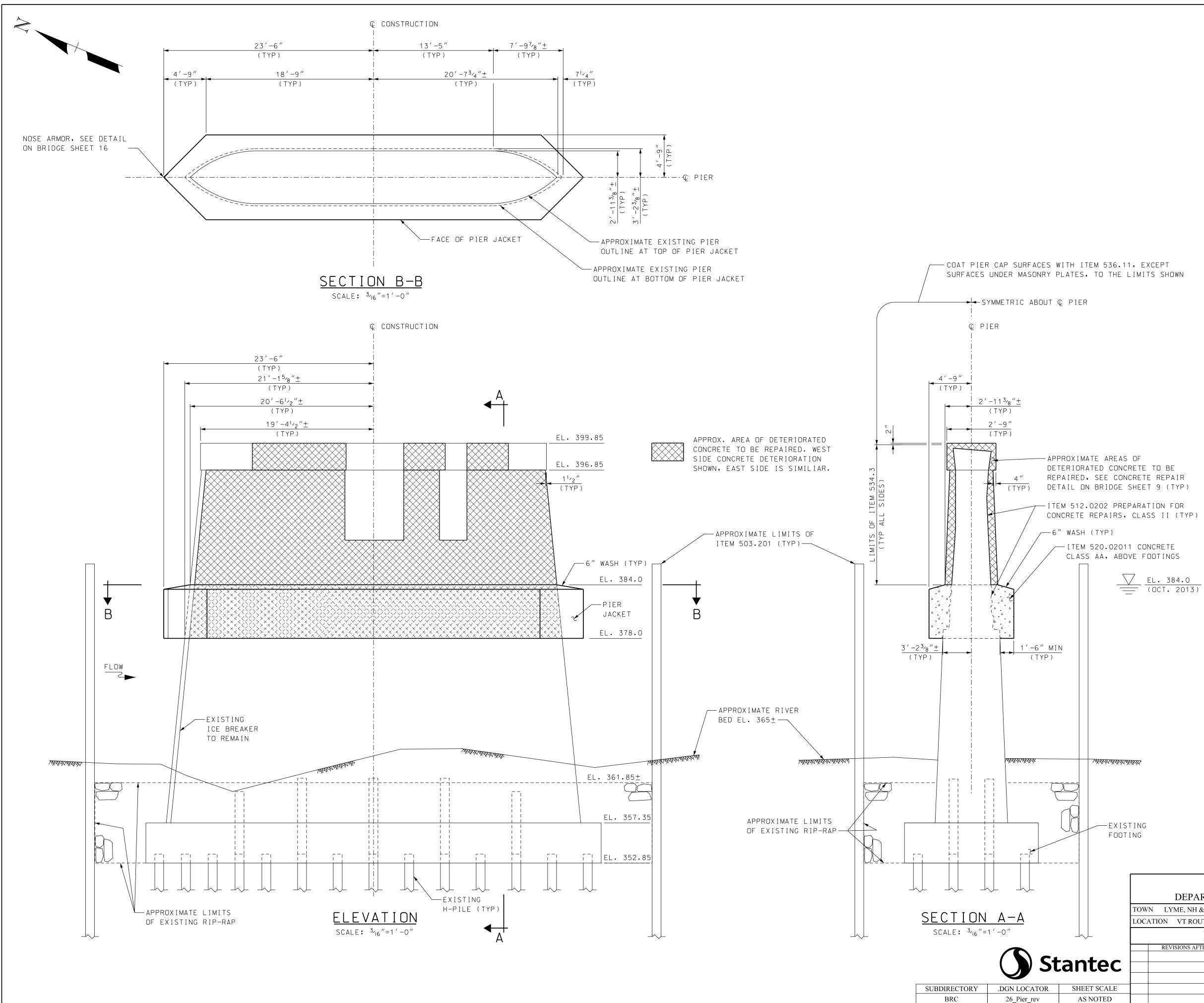
BRC







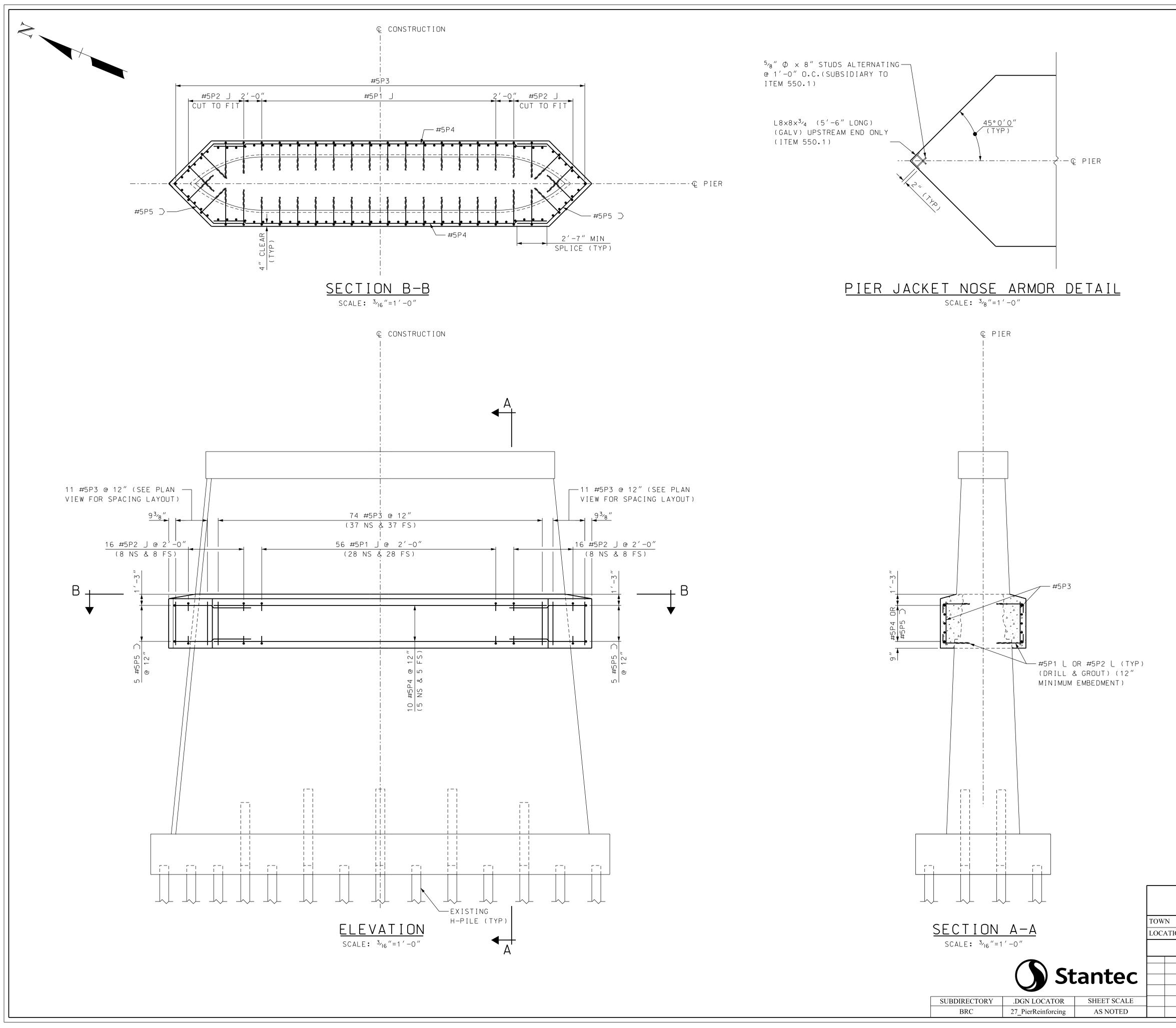




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SHOWN	

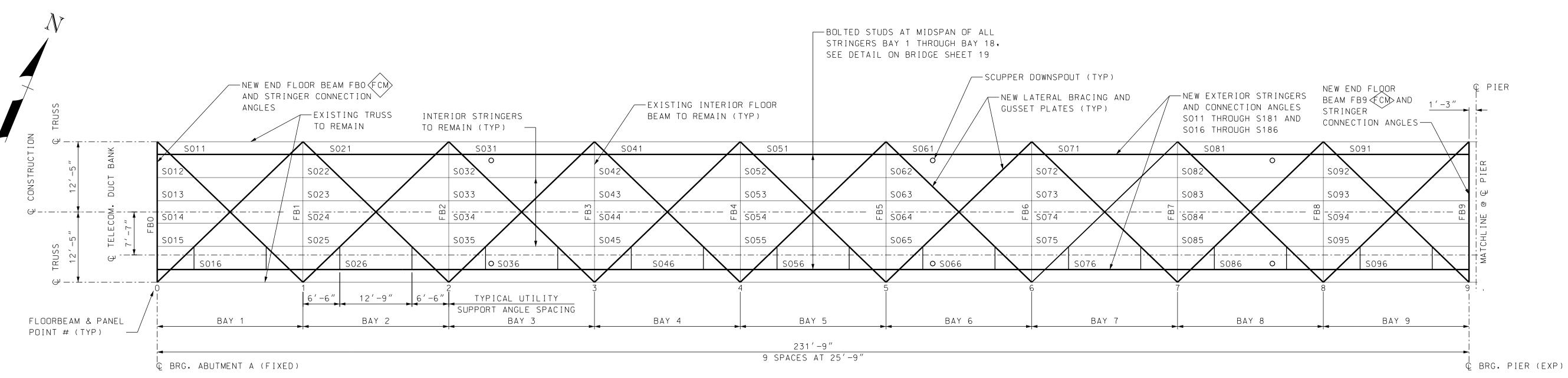
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
LYME, NH & THETFORD, V	Г		BRIDGE	NO. 053	\112	STATE PRO	JECT	14460		
ION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER										
EXISTING PIER REHABILITATION										
REVISIONS AFTER PROPOSAL			BY			BY	DATE	15 OF 38		
		DESIGNED	KLV	V 04/2021	CHECKED	DDT	04/2021	FILE NUMBER		
		DRAWN	KLV	V 04/2021	CHECKED	DDT	04/2021	1 1 4 2 6		
		QUANTITIES	KLV	V 04/2021	CHECKED	JDG	04/2021	1-14-2-6		
		ISSUE DATE		FEDERAL	PROJECT NO.	SH	EET NO.	TOTAL SHEETS		
		REV. DATE		A00	00(394)		26	67		

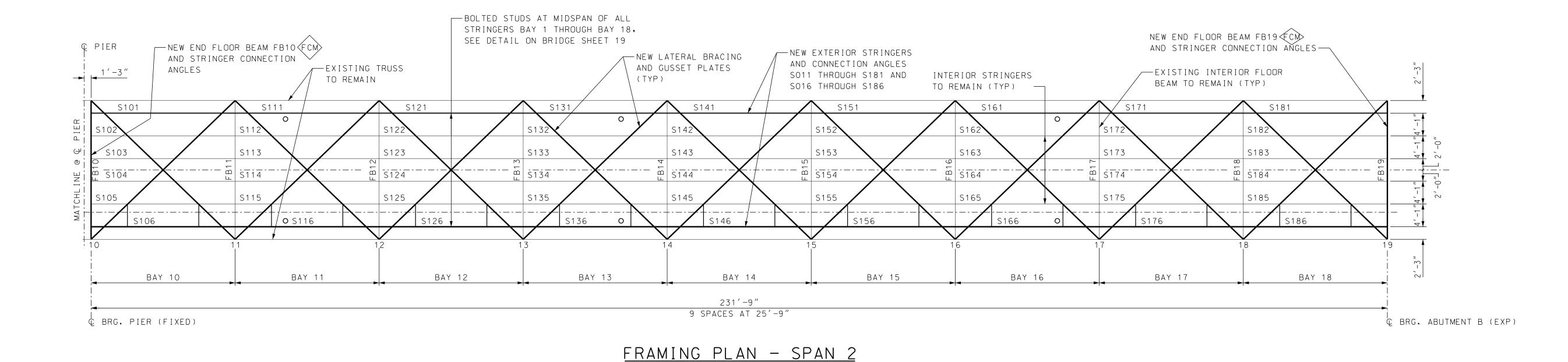
STATE OF NEW HAMPSHIRE



LYME, NH & THETFORD, VT       BRIDGE NO.       053\112       STATE PROJECT       14460         FION       VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER       BRIDGE SHEE         BRIDGE SHEE
PIER JACKET REINFORCING
REVISIONS AFTER PROPOSAL BY DATE BY DATE 16 OF 32
DESIGNED KLW 04/2021 CHECKED DDT 04/2021 FILE NUMBE
DRAWN KLW 04/2021 CHECKED DDT 04/2021
QUANTITIES         KLW         04/2021         CHECKED         JDG         04/2021         1-14-2-0
ISSUE DATE     FEDERAL PROJECT NO.     SHEET NO.     TOTAL SHEET
REV. DATE         A000(394)         27         67

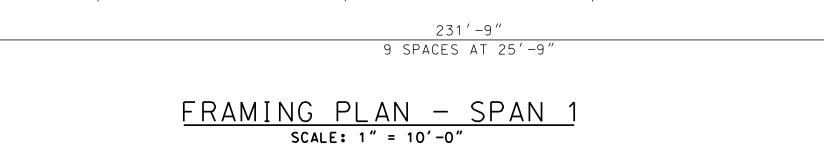
STATE OF NEW HAMPSHIRE

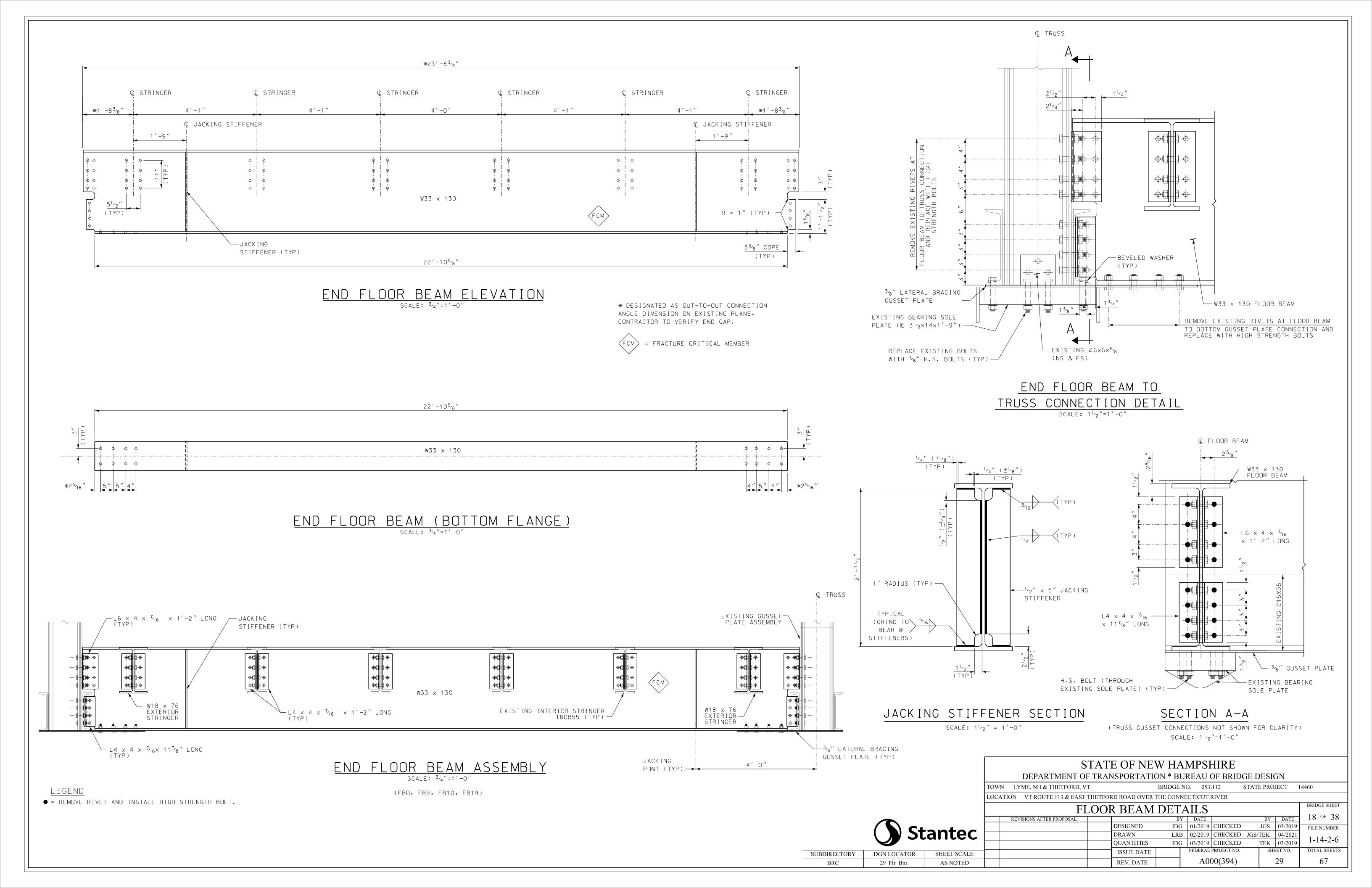


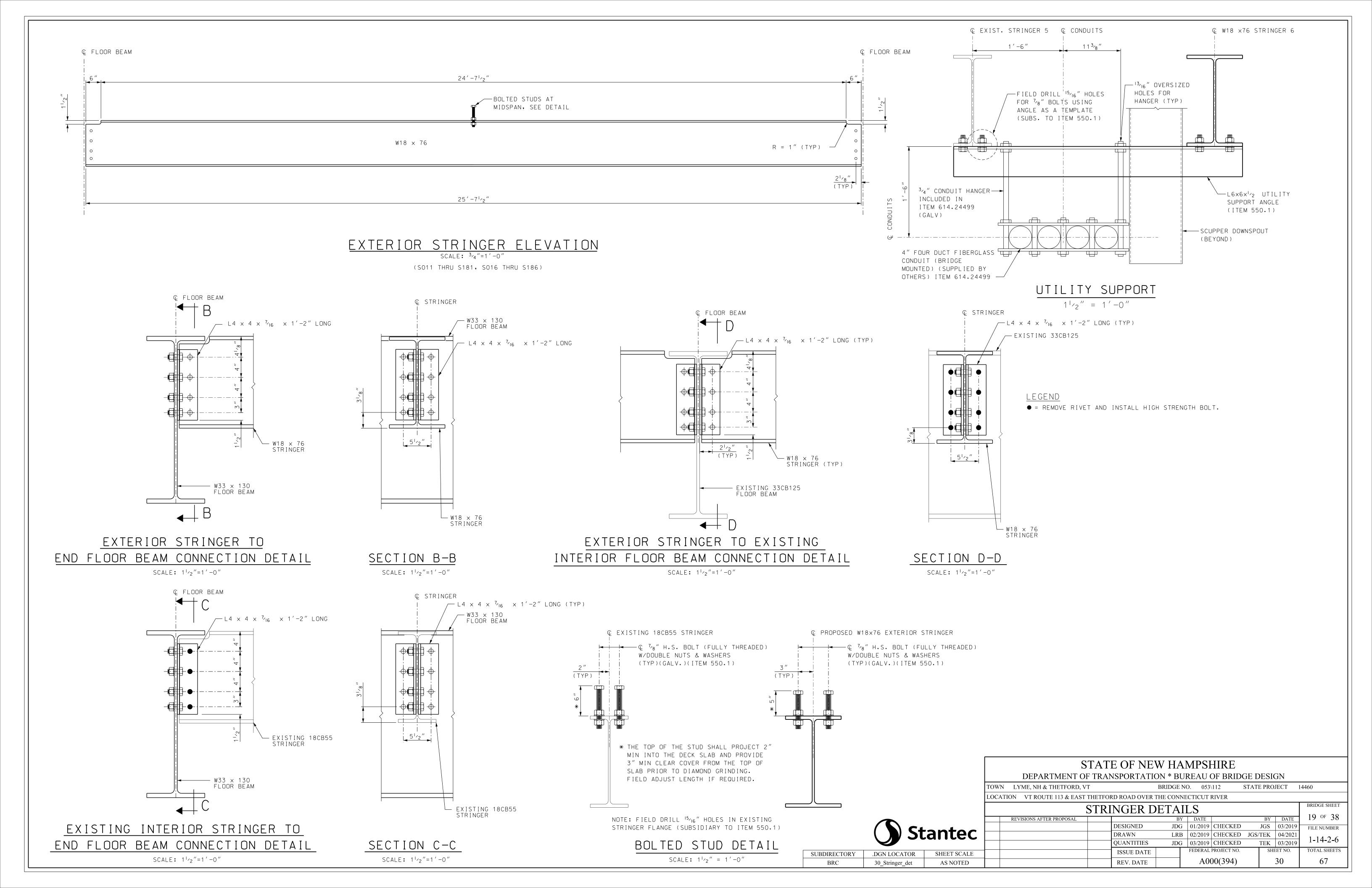


SCALE: 1'' = 10' - 0''

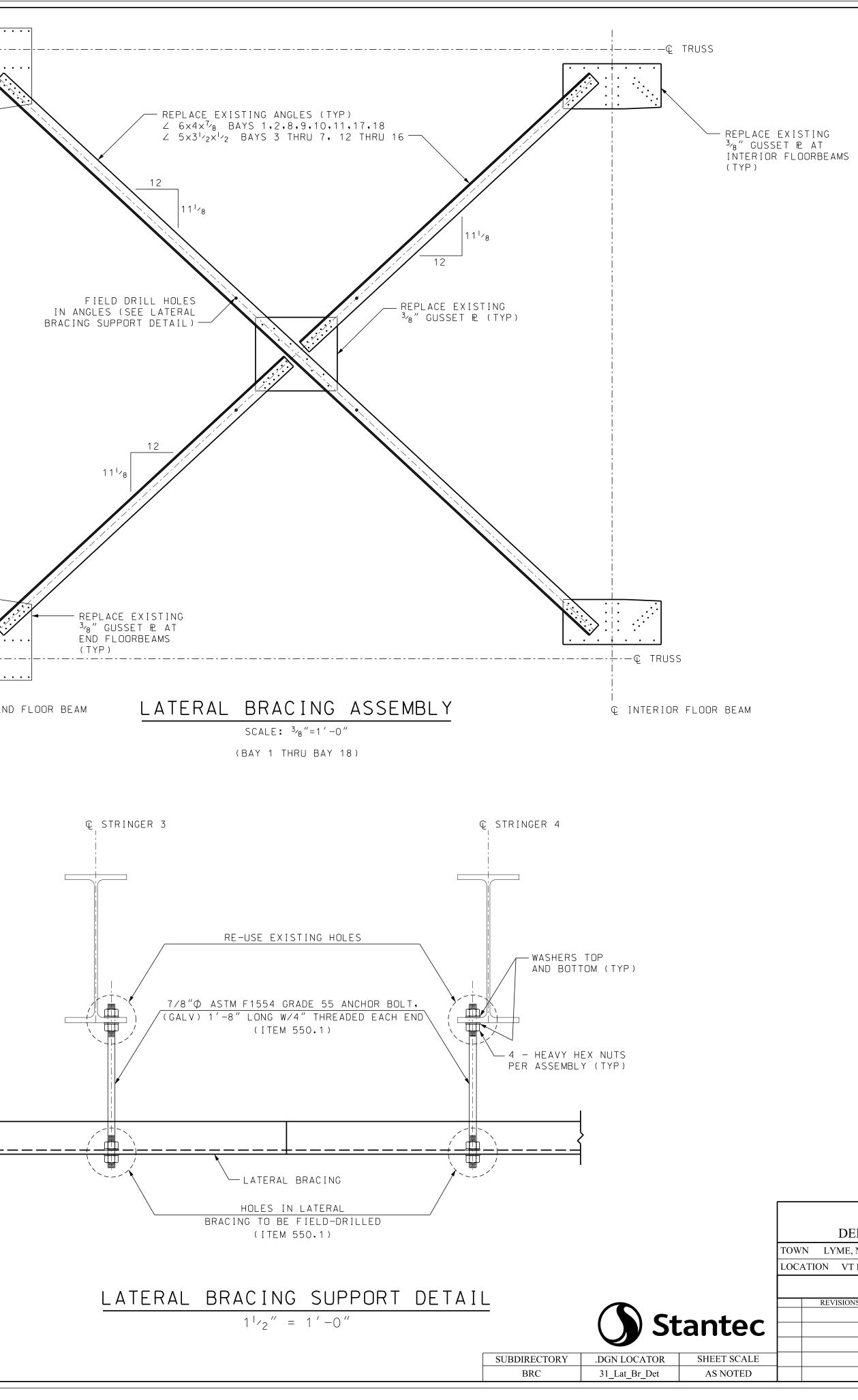
			STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN								
			TOWNLYME, NH & THETFORD, VTBRIDGE NO.053\112STATE PROJECT144								
			LOCATION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER								
			FRAMING PLAN								
			REVISIONS AFTER PROPOSAL		BY	-		BY	DATE	17 of 38	
				DESIGNED	JDG	01/2019	CHECKED	JGS	03/2019	FILE NUMBER	
		cantec		DRAWN	LRB	02/2019	CHECKED	JGS/TEK	04/2021	11100	
				QUANTITIES	JDG	03/2019	CHECKED	TEK	03/2019	1-14-2-6	
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE	_	ISSUE DATE		FEDERAL	PROJECT NO.	SHE	EET NO.	TOTAL SHEETS	
BRC	28 Fram	AS NOTED		REV. DATE		A00	)0(394)		28	67	



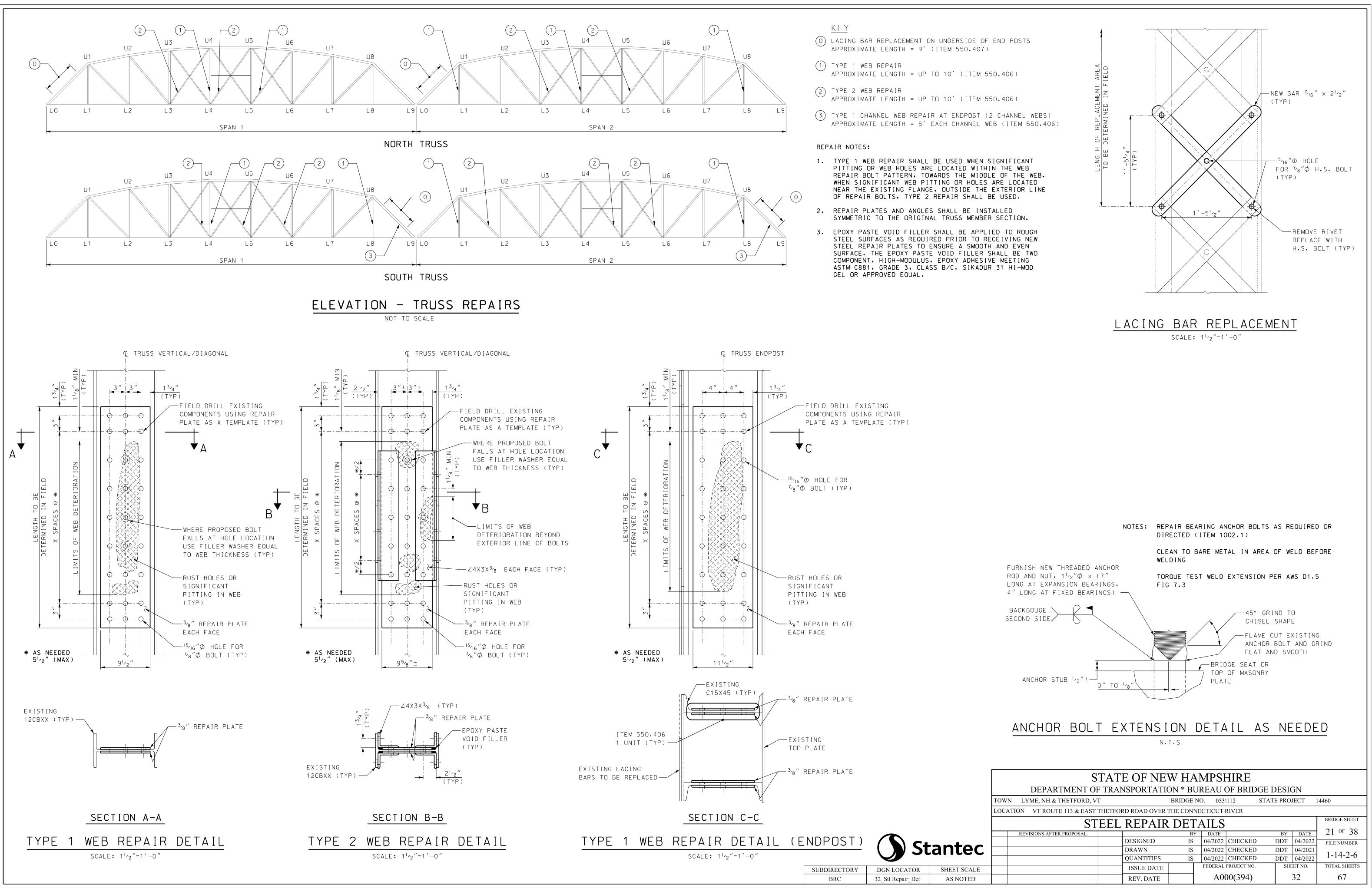


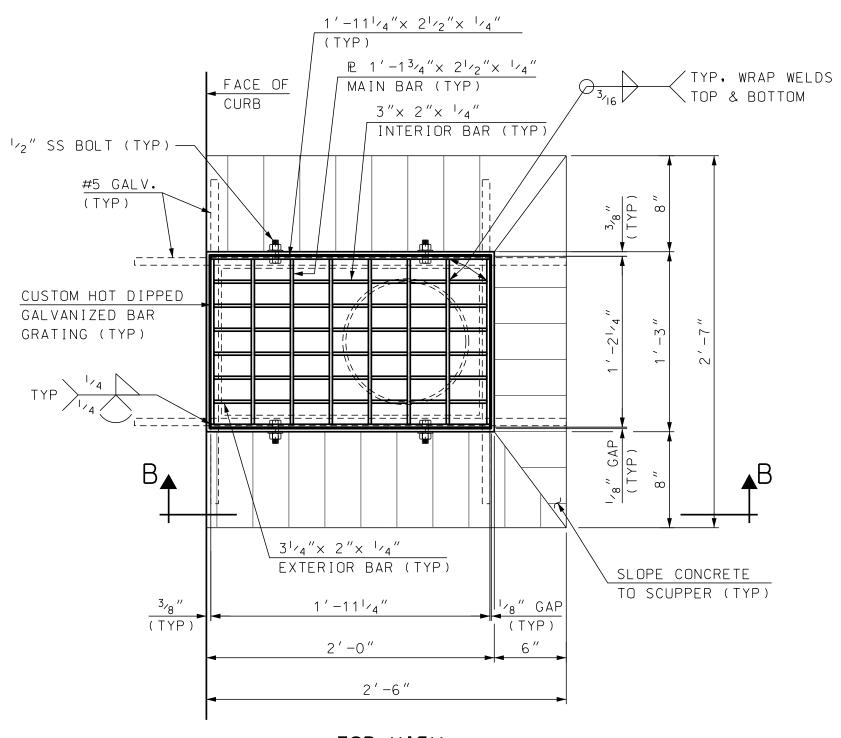


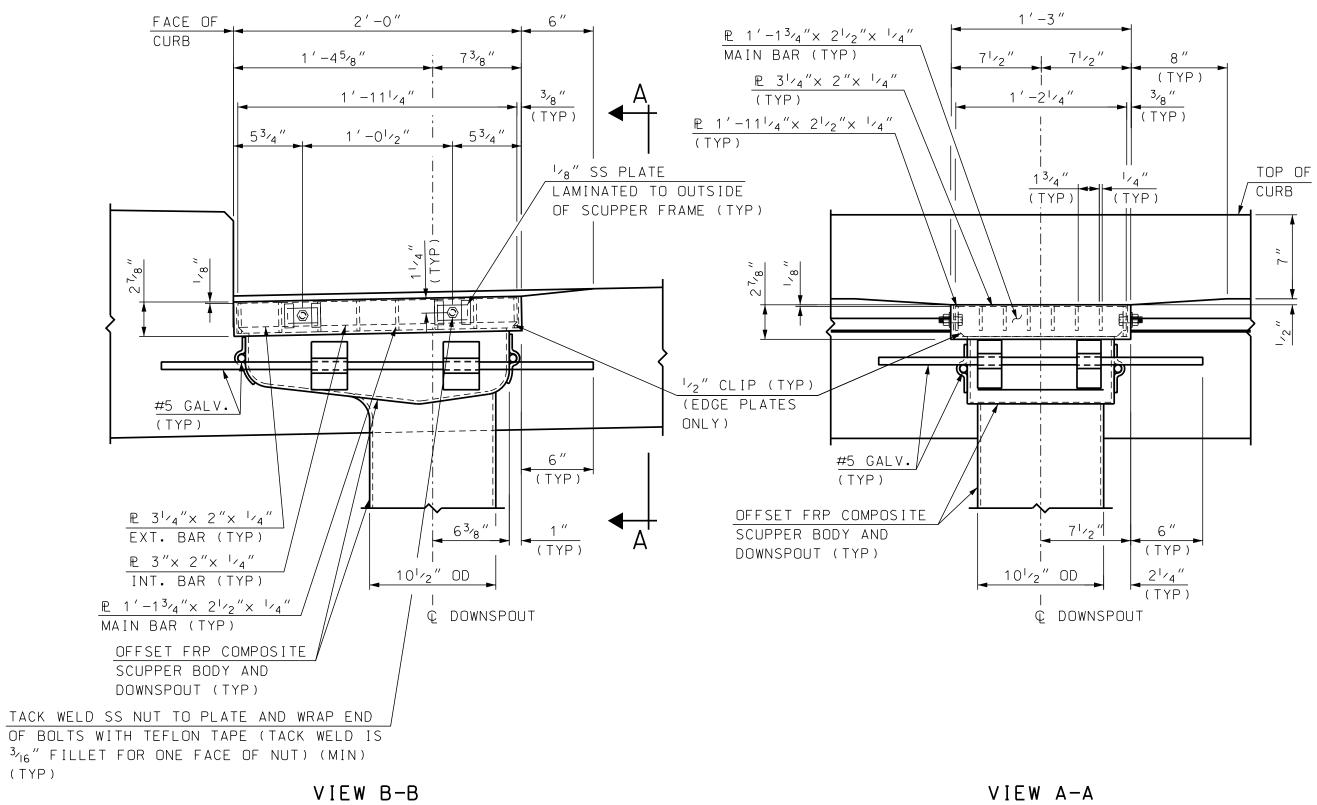
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	Q END
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STATE OF NEW HAMPSHIRE										
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
NLYME, NH & THETFORD, VTBRIDGE NO.053\112STATE PROJECT144										
TION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER										
LATERAL BRACING DETAILS										
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	20 of 38			
	DESIGNED	JDG	01/2019	CHECKED	JGS	03/2019	FILE NUMBER			
	DRAWN	LRB	02/2019	CHECKED	JGS/TEK	04/2021	1 1 4 2 6			
	QUANTITIES	JDG	03/2019	CHECKED	TEK	03/2019	1-14-2-6			
	ISSUE DATE		FEDERAL PROJECT NO. SHEET NO.				TOTAL SHEETS			
	REV. DATE									



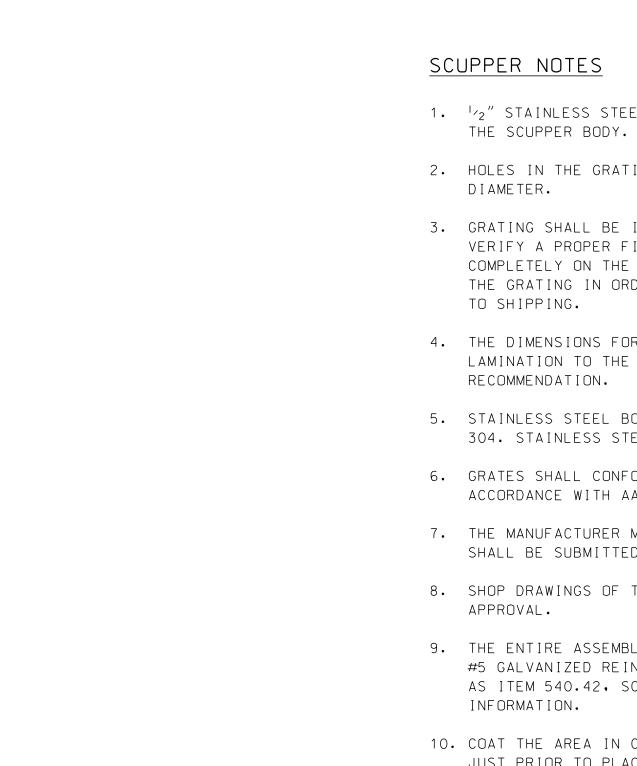




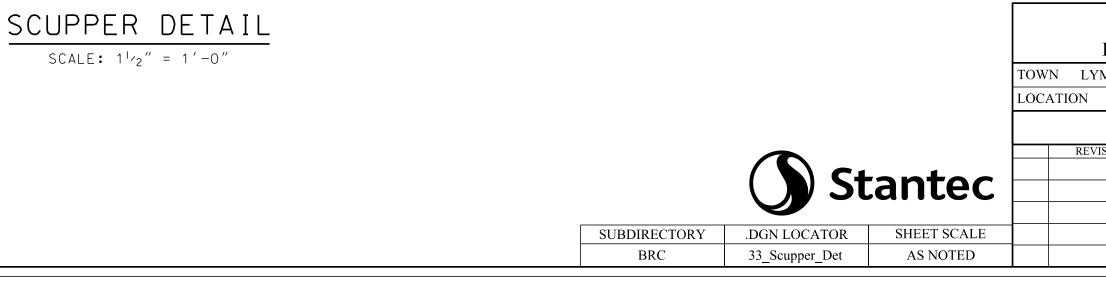
SCALE:  $1^{1}/2^{"} = 1^{'}-0^{"}$ 

<u>top view</u>

(TYP)



# VIEW A-A



1. 1/2" STAINLESS STEEL BOLTS AND NUTS SHALL BE USED TO ATTACH THE GRATE TO

2. HOLES IN THE GRATING, FRP SCUPPER, AND STAINLESS STEEL PLATE SHALL BE  $\frac{5}{8}''$ 

3. GRATING SHALL BE INSTALLED IN THE FRP SCUPPER BODY PRIOR TO SHIPPING TO VERIFY A PROPER FIT AND ATTACHMENT. THE GRATE SHALL BE SEATED COMPLETELY ON THE SCUPPER BODY. ANY ADJUSTMENTS THAT NEED TO BE MADE TO THE GRATING IN ORDER TO FIT AND BOLT THE SCUPPER BODY SHALL BE MADE PRIOR

4. THE DIMENSIONS FOR THE STAINLESS STEEL PLATE AND ITS REQUIREMENTS FOR LAMINATION TO THE SCUPPER FRAME WILL BE BASED ON THE MANUFACTURER'S

5. STAINLESS STEEL BOLTS AND MATCHING NUTS SHALL CONFORM TO ASTM A276 TYPE 304. STAINLESS STEEL PLATES SHALL CONFORM TO ASTM A240 TYPE 304.

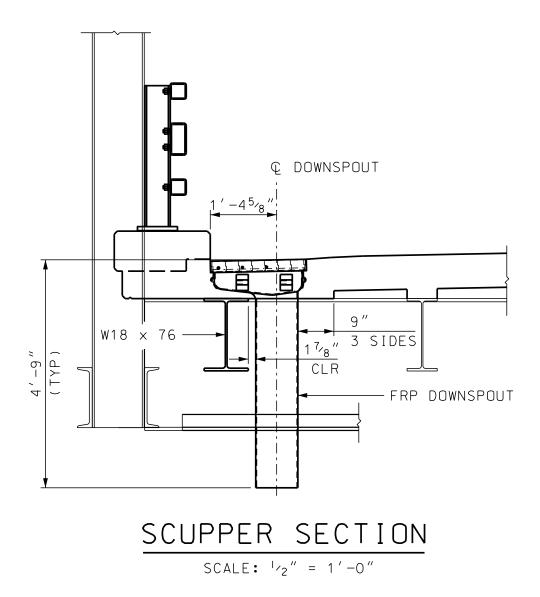
6. GRATES SHALL CONFORM TO ASTM A36 AND BE GALVANIZED AFTER MANUFACTURING IN ACCORDANCE WITH AASHTO M111 (ASTM A123).

7. THE MANUFACTURER MAY PROPOSE AN ALTERNATE GRATE ATTACHMENT DETAIL WHICH SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

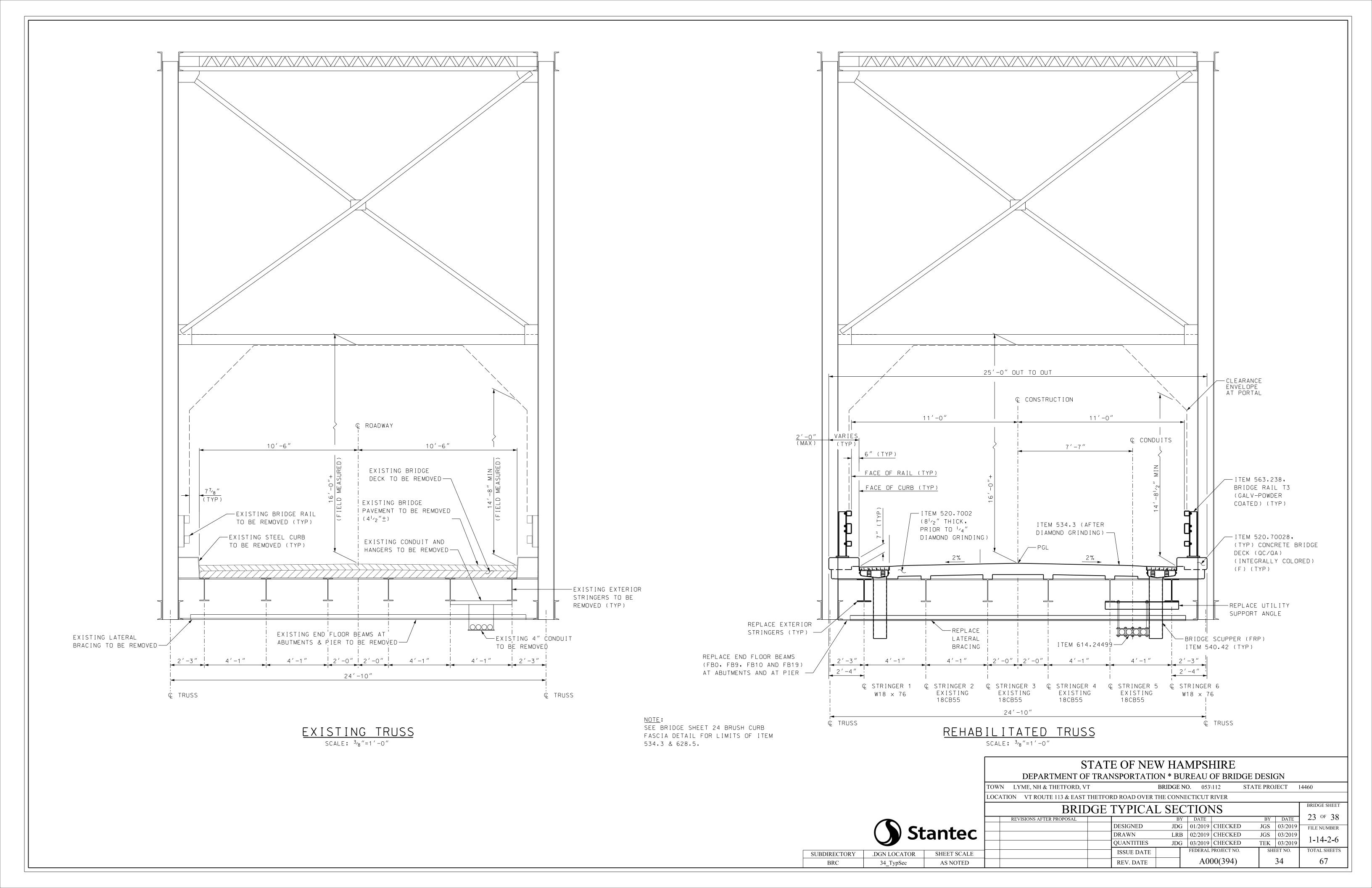
8. SHOP DRAWINGS OF THE FRP SCUPPERS SHALL BE SUBMITTED TO THE ENGINEER FOR

9. THE ENTIRE ASSEMBLY INCLUDING FRP SCUPPERS AND DOWNSPOUTS, STEEL GRATING, #5 GALVANIZED REINFORCING, MISC. PLATES AND FASTENERS SHALL BE PAID FOR AS ITEM 540.42, SCUPPER (FRP), SEE SPECIAL PROVISION FOR ADDITIONAL

10. COAT THE AREA IN CONTACT WITH CONCRETE WITH AN APPROVED BONDING AGENT JUST PRIOR TO PLACING THE DECK CONCRETE (COST INCLUDED IN ITEM 520,7002).

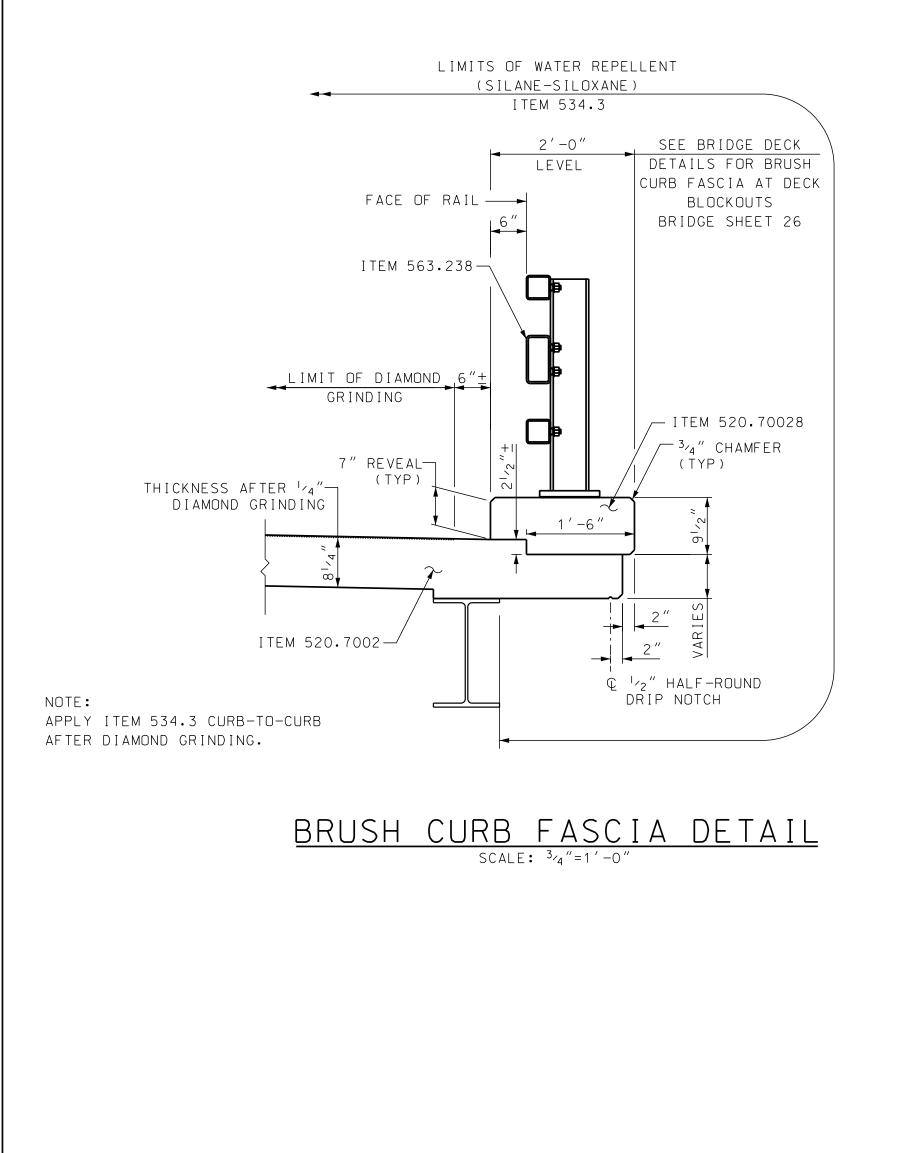


STATE OF NEW HAMPSHIRE												
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN												
LYME, NH & THETFORD, VT BRIDGE NO. 053\112 STATE PROJECT 14460												
ION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER												
SCUPPER DETAILS												
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	22 OF 38					
	DESIGNED	JDG	01/2021	CHECKED	DDT	01/2021	FILE NUMBER					
	DRAWN	JDG	01/2021	CHECKED	DDT	01/2021						
	QUANTITIES	JDG	01/2021	CHECKED	KLW	01/2021	1-14-2-6					
	ISSUE DATE		FEDERAL	PROJECT NO.	SHI	EET NO.	TOTAL SHEETS					
	REV. DATE		A0	00(394)		33	67					



	BOTTOM OF CONCRETE DECK ELEVATIONS (SPAN 1) (FT)																		
	CL BRG	STA	CL BRG																
STRINGER	ABUT A	15+37.88	15+50.75	15+63.63	15+76.50	15+89.38	16+02.25	16+15.13	16+28.00	16+40.88	16+53.75	16+66.63	16+79.50	16+92.38	17+05.25	17+18.13	17+31.00	17+43.88	PIER
	FB 1		FB 2		FB 3		FB 4		FB 5		FB 6		FB 7		FB 8		FB 9		FB 10
1	403.09	403.36	403.60	403.83	404.02	404.22	404.39	404.56	404.70	404.84	404.94	405.04	405.11	405.18	405.22	405.26	405.27	405.28	405.25
2	403.18	403.45	403.68	403.91	404.11	404.31	404.48	404.65	404.79	404.92	405.03	405.13	405.20	405.27	405.30	405.35	405.36	405.36	405.33
3	403.26	403.53	403.77	404.00	404.19	404.39	404.56	404.73	404.87	405.01	405.11	405.21	405.28	405.35	405.39	405.43	405.44	405.45	405.41
4	403.26	403.53	403.77	404.00	404.19	404.39	404.56	404.73	404.87	405.01	405.11	405.21	405.28	405.35	405.39	405.43	405.44	405.45	405.41
5	403.18	403.45	403.68	403.91	404.11	404.31	404.48	404.65	404.79	404.92	405.03	405.13	405.20	405.27	405.30	405.35	405.36	405.36	405.33
6	403.09	403.36	403.60	403.83	404.02	404.22	404.39	404.56	404.70	404.84	404.94	405.04	405.11	405.18	405.22	405.26	405.27	405.28	405.25

	BOTTOM OF CONCRETE DECK ELEVATIONS (SPAN 2) (FT)																		
	CL BRG	STA	CL BRG																
STRINGER	PIER	17+72.13	17+85.00	17+97.88	18+10.75	18+23.63	18+36.50	18+49.38	18+62.25	18+75.13	18+88.00	19+00.88	19+13.75	19+26.63	19+39.50	19+52.38	19+65.25	19+78.13	ABUT B
	FB 11		FB 12		FB 13		FB 14		FB 15		FB 16		FB 17		FB 18		FB 19		FB 20
1	405.25	405.28	405.28	405.27	405.22	405.19	405.12	405.05	404.94	404.84	404.70	404.57	404.40	404.23	404.03	403.83	403.60	403.36	403.09
2	405.33	405.36	405.35	405.34	405.30	405.26	405.19	405.12	405.02	404.92	404.78	404.65	404.48	404.31	404.10	403.91	403.68	403.44	403.17
3	405.41	405.45	405.44	405.43	405.39	405.35	405.28	405.21	405.11	405.01	404.87	404.73	404.56	404.39	404.19	404.00	403.77	403.53	403.26
4	405.41	405.45	405.44	405.43	405.39	405.35	405.28	405.21	405.11	405.01	404.87	404.73	404.56	404.39	404.19	404.00	403.77	403.53	403.26
5	405.33	405.36	405.35	405.34	405.30	405.26	405.19	405.12	405.02	404.92	404.78	404.65	404.48	404.31	404.10	403.91	403.68	403.44	403.17
6	405.25	405.28	405.28	405.27	405.22	405.19	405.12	405.05	404.94	404.84	404.70	404.57	404.40	404.23	404.03	403.83	403.60	403.36	403.09



# DECK SLAB ELEVATION NOTES

(1)	AF	ΤE	R	Т
	ΕL	ΕV	ΑT	I
	ΤH	Е	ΡO	Ι
	AN	D	ΤH	С
	AN	D	ΤH	E
	ΕL	ΕV	ΑT	Ι
(2)	ΕL	ΕV	ΑT	Ι
	ΤO	ΤA	L	D
(3)	AF	ΤE	R	F
	ΤН	Е	СО	Ν
	ΕL	ΕV	ΑT	I
	ΤH	Е	DI	F
	DU	Е	ΤO	
	АD	JU	ST	Ν
	ΤO	R	OW	
(1)	тц		DE	т

NEEDED.

(5) IT IS ANTICIPATED THAT THERE WILL BE NO MEASUREABLE DIFFERENCE IN DEFLECTION DUE TO THE EXISTING DECK, CURB, RAILING, AND WEARING SURFACE COMPARED TO THE PROPOSED DECK, CURB, AND RAILING.

€ BRG.

\* REFERENCE LINE

\* +0.863% SPAN 1, -0.863% SPAN 2

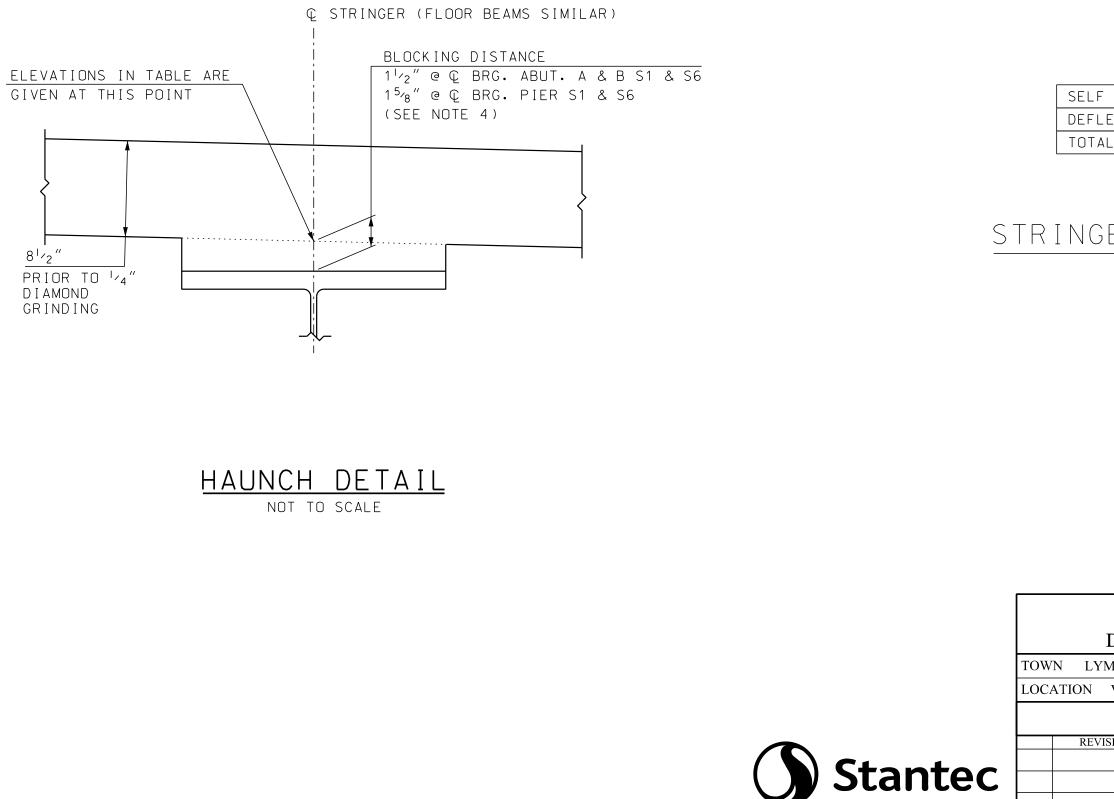
SHEET SCALE

AS NOTED

.DGN LOCATOR

35 Bot slab elev

2	SPAN 1 STATION	15+25.00	15+50.75	15+76.50	16+02.25	5 16+28.00	16+53.75	16+79.50	17+05.25	17+31.00	17+56.75
	SPAN 2 STATION	17+59.25	17+85.00	18+10.75	18+36.50	18+62.25	18+88.00	19+13.75	19+39.50	19+65.25	19+91.00
	TOTAL CAMBER PER ORIGINAL SHOP DRAWINGS	0″	3 <sup>3</sup> ′8″	5 <sup>5</sup> ′8″	7 <sup>3</sup> ⁄8″	81/4″	81/4″	7 <sup>3</sup> /8″	5 <sup>5</sup> ⁄8″	3 <sup>3</sup> ′8″	0″
	REMAINING CAMBER AFTER ALL DEAD LOAD IS APPLIED	0″	2 <sup>3</sup> ′8″	4 <sup>1</sup> ′8″	5 <sup>3</sup> ′8″	6″	6 ″	5 <sup>3</sup> ′8″	41/8"	2 <sup>3</sup> /8″	0″
	ANTICIPATED DEFLECTION OF NEW DECK, CURB, & RAIL	0 ″	<sup>  </sup> /16 ″	1 <sup>1</sup> ⁄16″	1 <sup>3</sup> ⁄8 "	1 1/2 "	1'′2″	1 <sup>3</sup> ⁄8 "	1 <sup> </sup> /16 ″	<sup>  </sup> /16 <sup>"</sup>	0 ″



SUBDIRECTORY

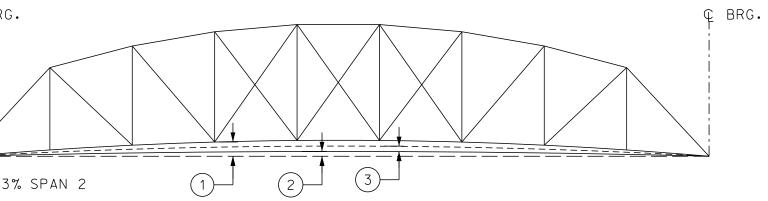
BRC

AFTER THE STRUCTURAL STEEL IS ERECTED BUT BEFORE THE DECK FORMS ARE BUILT, IONS ON THE TOP FLANGE OF THE FLOOR BEAMS AND STRINGERS ARE TO BE OBTAINED AT JINTS INDICATED IN THE TABLE. THE DIFFERENCE BETWEEN THE ELEVATIONS OBTAINED HOSE IN THE TABLE IS THE ACTUAL BLOCKING DISTANCE FROM THE TOP OF THE FLANGE BOTTOM OF DECK AT THE CENTERLINE OF THE FLOOR BEAMS AND STRINGERS. SEE ION TABLE AND HAUNCH DETAIL ON THIS SHEET.

IONS SHOWN IN THE TABLE ARE FINISHED BOTTOM OF SLAB ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION, LESS THE DEFLECTION DUE TO STRUCTURAL STEEL WEIGHT.

REMOVAL OF EXISTING STEEL CURB, BUT PRIOR TO REMOVAL OF CONCRETE BRIDGE DECK, INTRACTOR SHALL TAKE ELEVATIONS ON ALL FLOOR BEAMS AT FACE OF BOTH TRUSSES. IONS AT THE SAME POINTS SHALL BE TAKEN AGAIN AFTER REMOVAL OF THE BRIDGE DECK. FFERENCE BETWEEN THE ELEVATIONS IS THE APPROXIMATE DEFLECTION OF THE TRUSSES ) THE WEIGHT OF THE BRIDGE DECK. THIS INFORMATION SHALL BE USED TO MAKE ANY MENTS TO THE TABULATED BOTTOM OF CONCRETE DECK ELEVATIONS AS NEEDED - COMPARE 3 IN THE TRUSS CAMBER DIAGRAM, THIS SHEET.

(4) THEORETICAL BLOCKING HEIGHTS WERE DETERMINED USING A CALCULATED TOP OF FLOOR BEAM ELEVATION AT CENTERLINE OF BEARING AT THE ABUTMENTS OF EL. 402.96 AND EL. 405.11 AT THE CENTERLINE OF BEARINGS AT THE PIER BASED ON SURVEY INFORMATION. THE CONTRACTOR SHALL VERIFY THESE ELEVATIONS AFTER THE DECK IS REMOVED AND MAKE ADJUSTMENTS AS



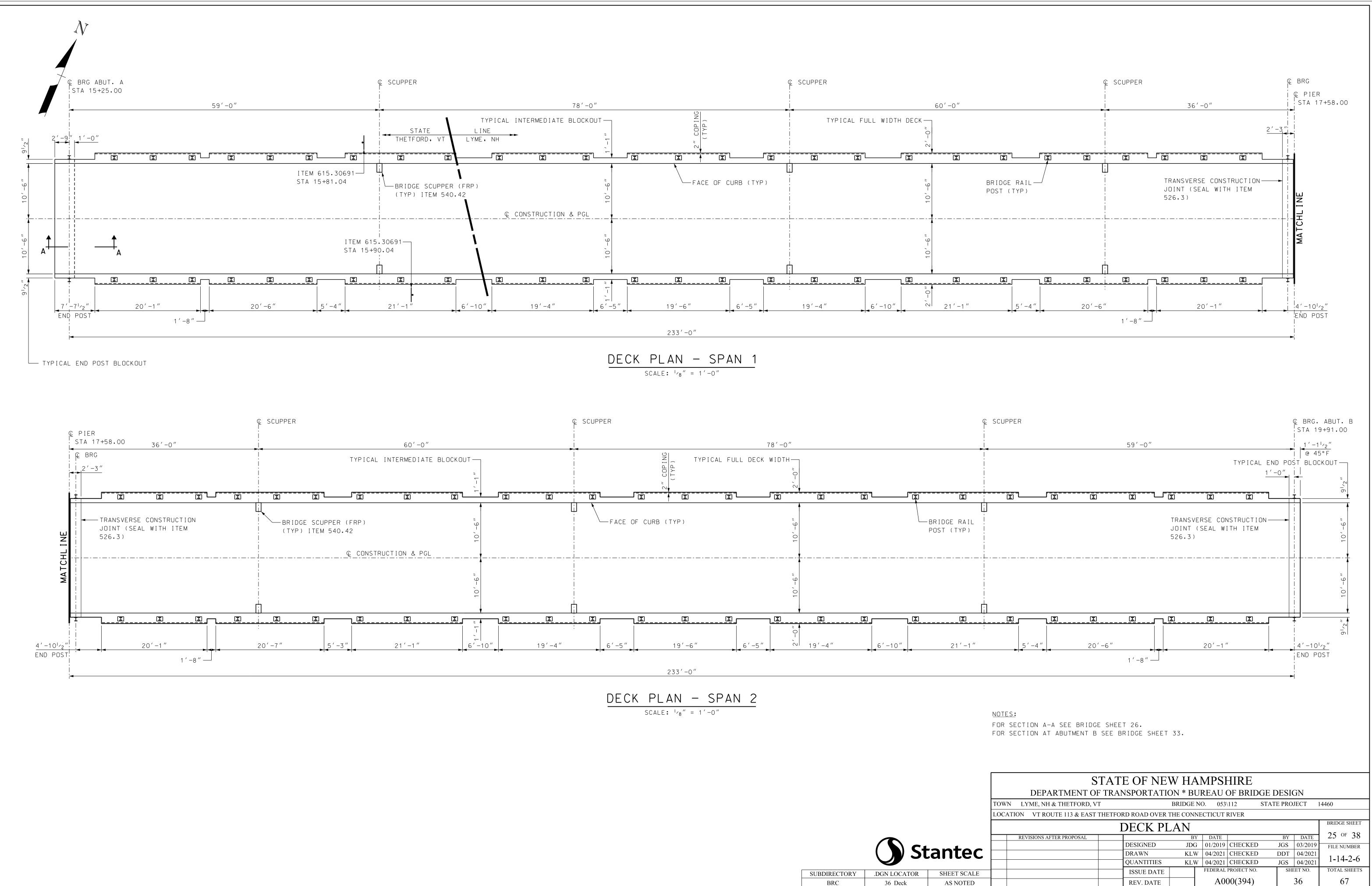
# TRUSS CAMBER DIAGRAM

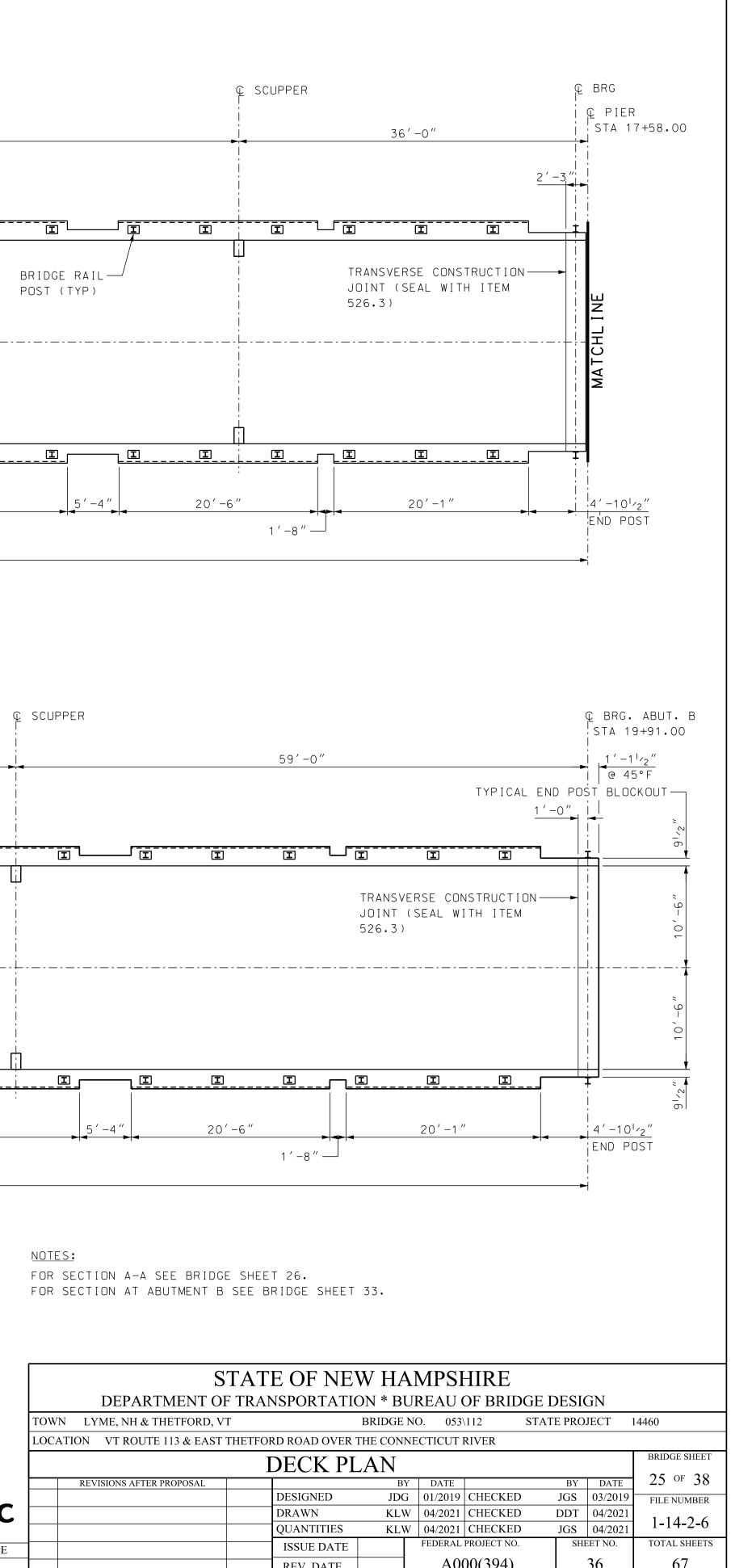
NOT TO SCALE

	STRINGERS	FLOOR BEAMS
SELF WEIGHT DEFLECTION	0.02″	0.01″
DEFLECTION DUE TO DECK, CURB, & RAILING	' <sub>8</sub> "	۱ <sub>×8</sub> "
TOTAL DEAD LOAD DEFLECTION	۱ <sub>/8</sub> ″	×8″

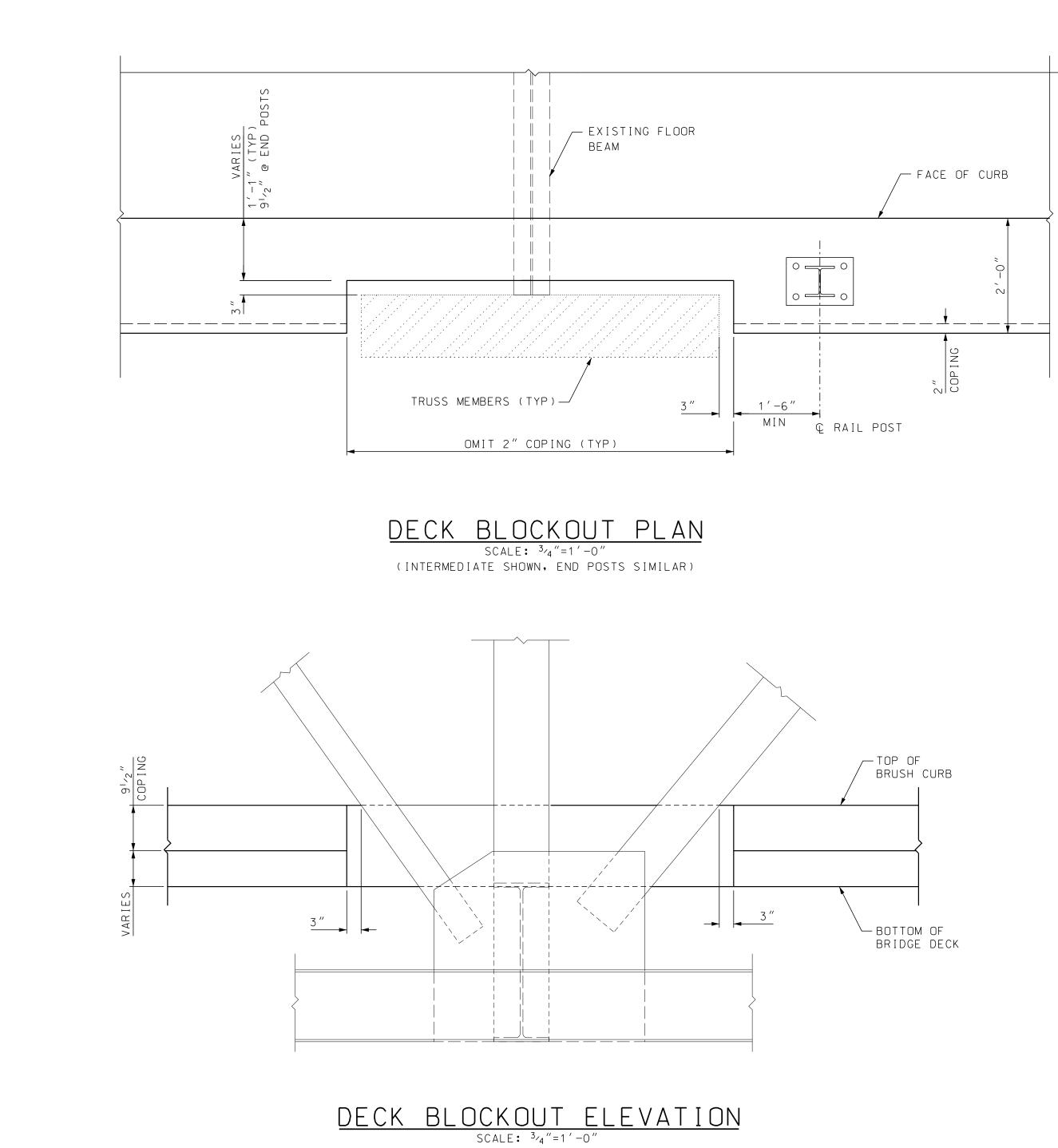
# STRINGER & FLOOR BEAM MIDSPAN DEFLECTIONS

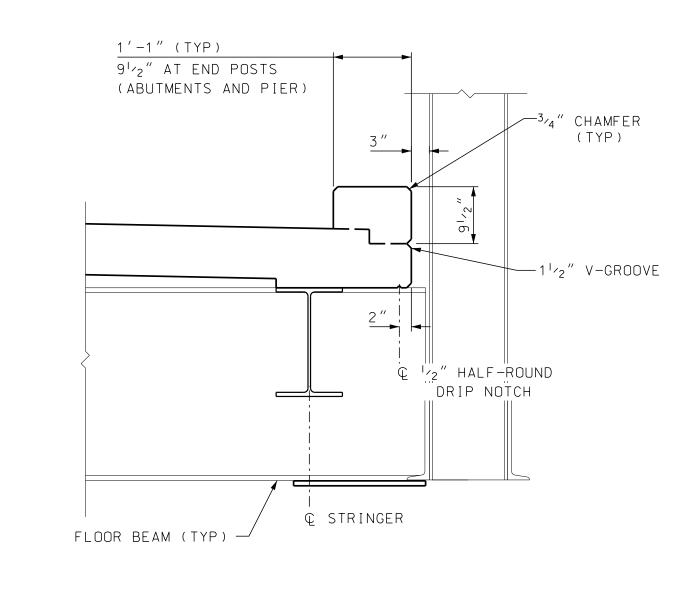
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
LYME, NH & THETFORD, VT BRIDGE N			O. 053	112	2 STATE PROJECT 14460				
FION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER									
BOTTOM OF SLAB ELEVATIONS									
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	24 OF 38		
	DESIGNED	JDG	01/2019	CHECKED	DDT	04/2021	FILE NUMBER		
	DRAWN	LRB	02/2019	CHECKED	DDT	04/2021			
	QUANTITIES	JDG	03/2019	CHECKED	TEK	04/2021	1-14-2-6		
	ISSUE DATE		FEDERAL PROJECT NO.		SHI	EET NO.	TOTAL SHEETS		
	REV. DATE		A000(394)			35	67		



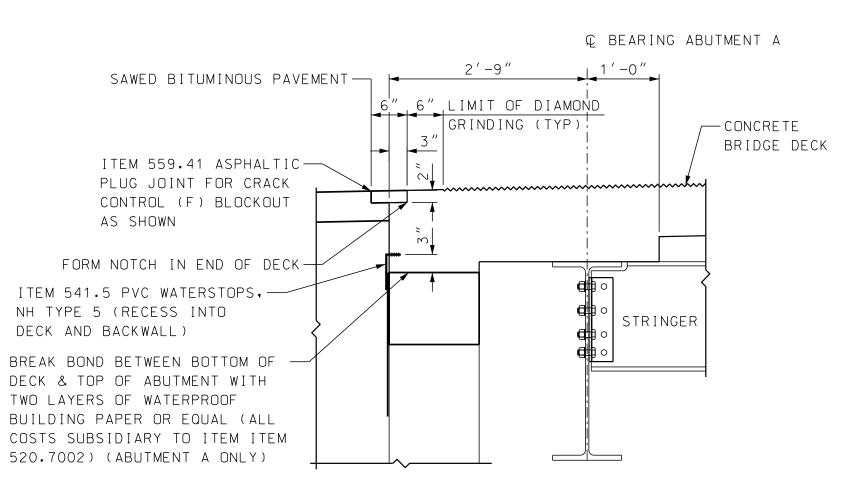


BRC 36 Deck AS NOTED

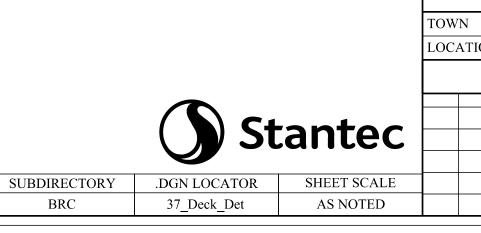






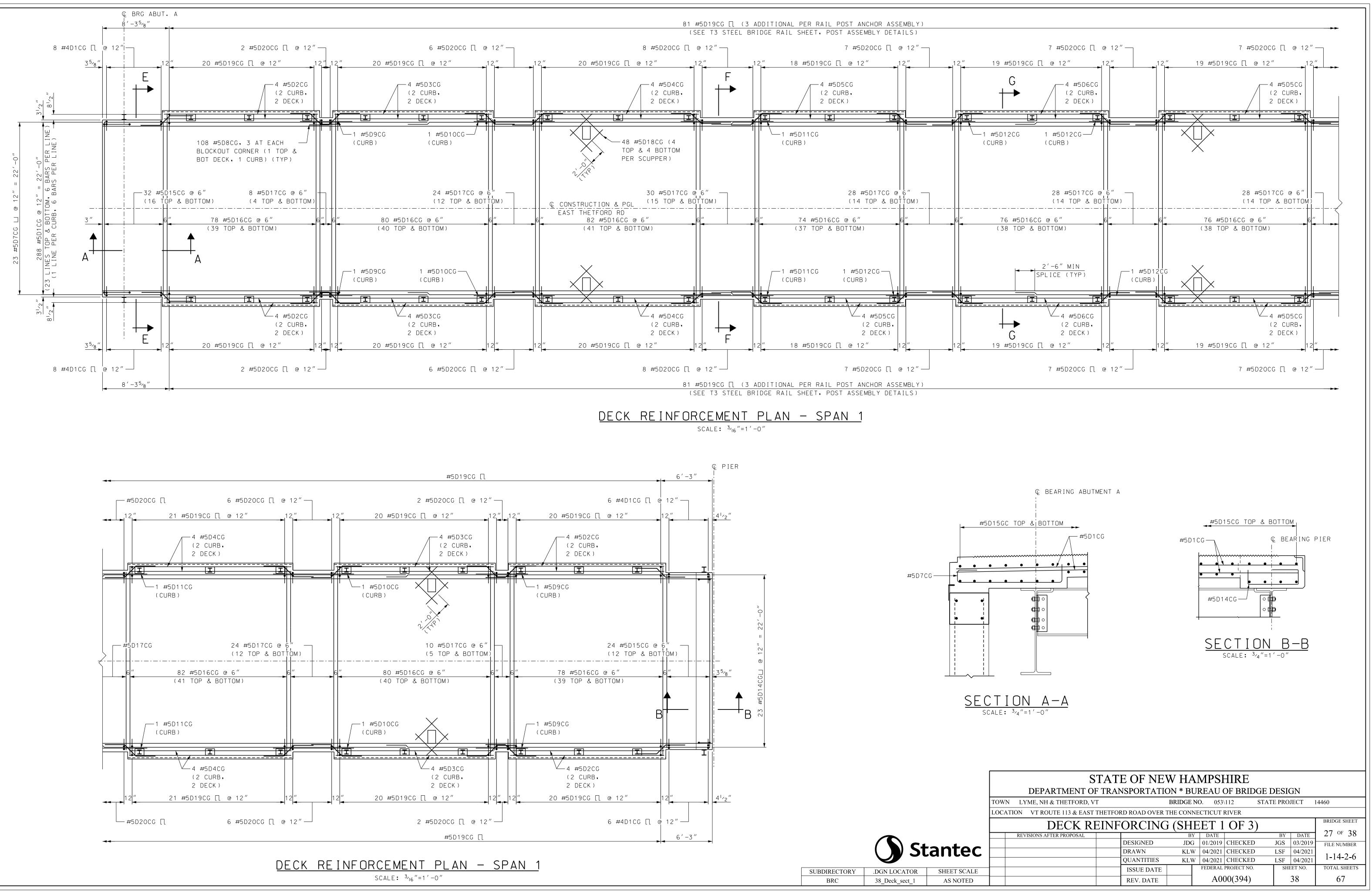


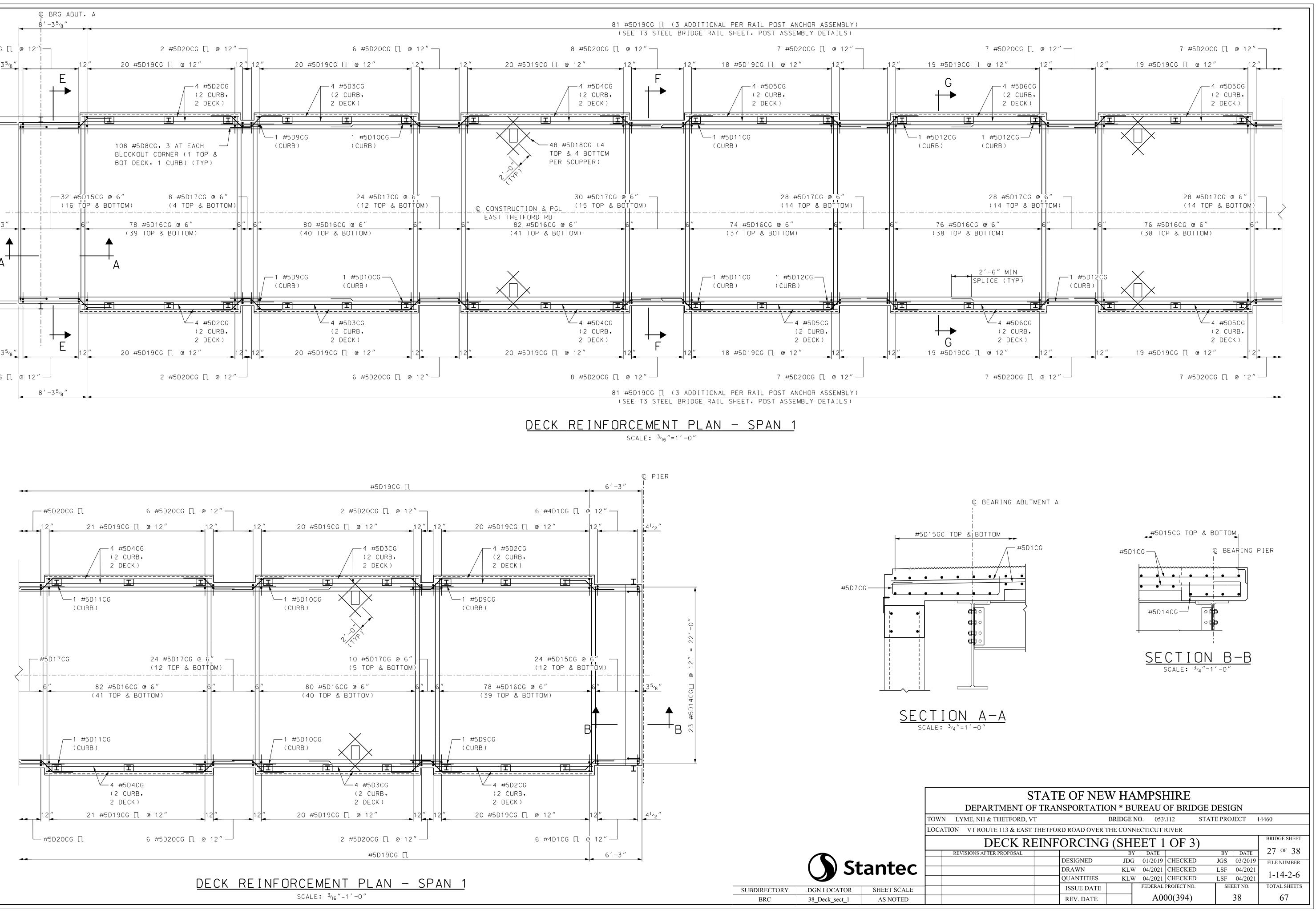
<u>NOTE</u>: FOR LOCATION OF SECTION A-A SEE BR. SHT. 25.

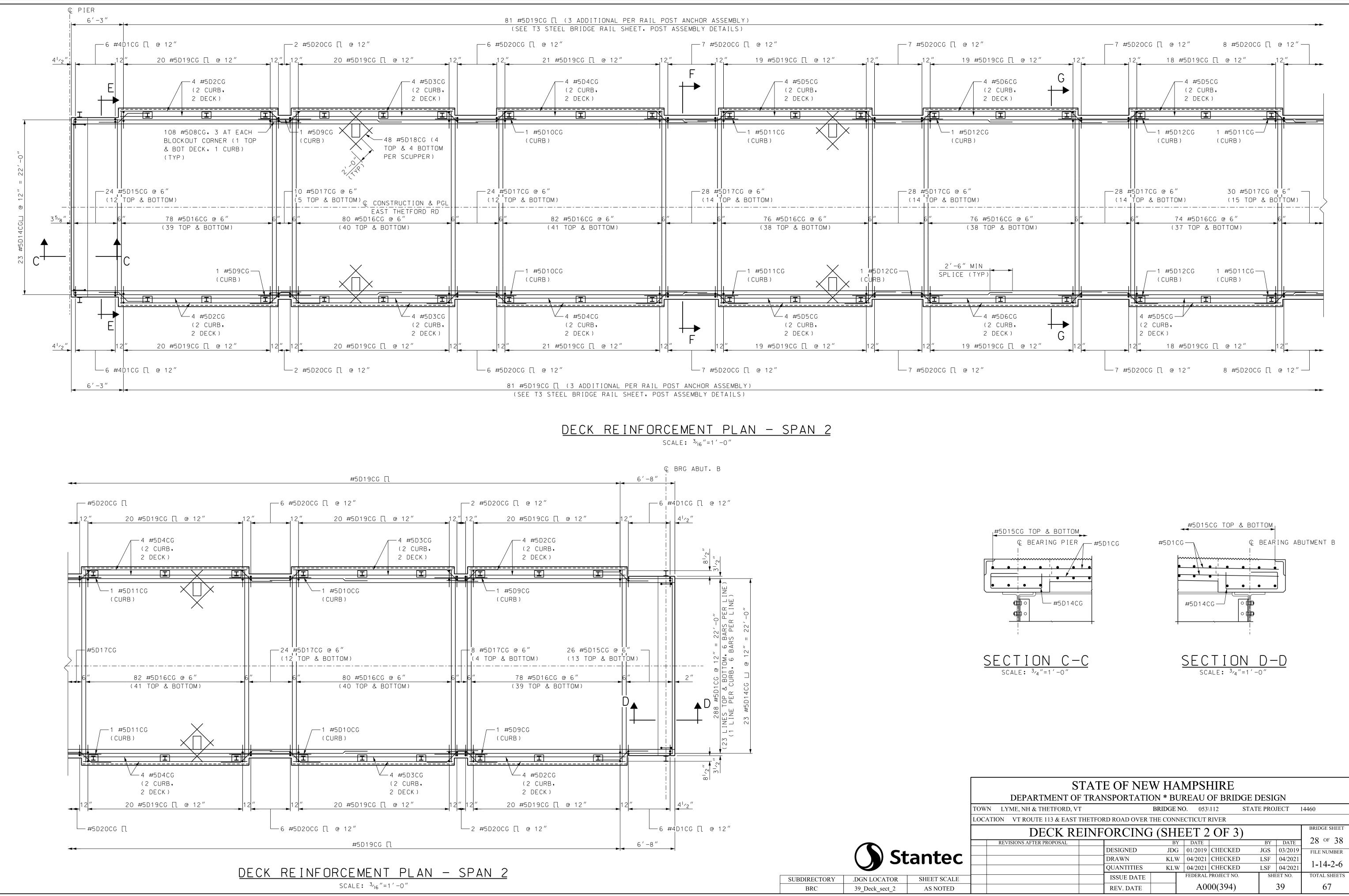


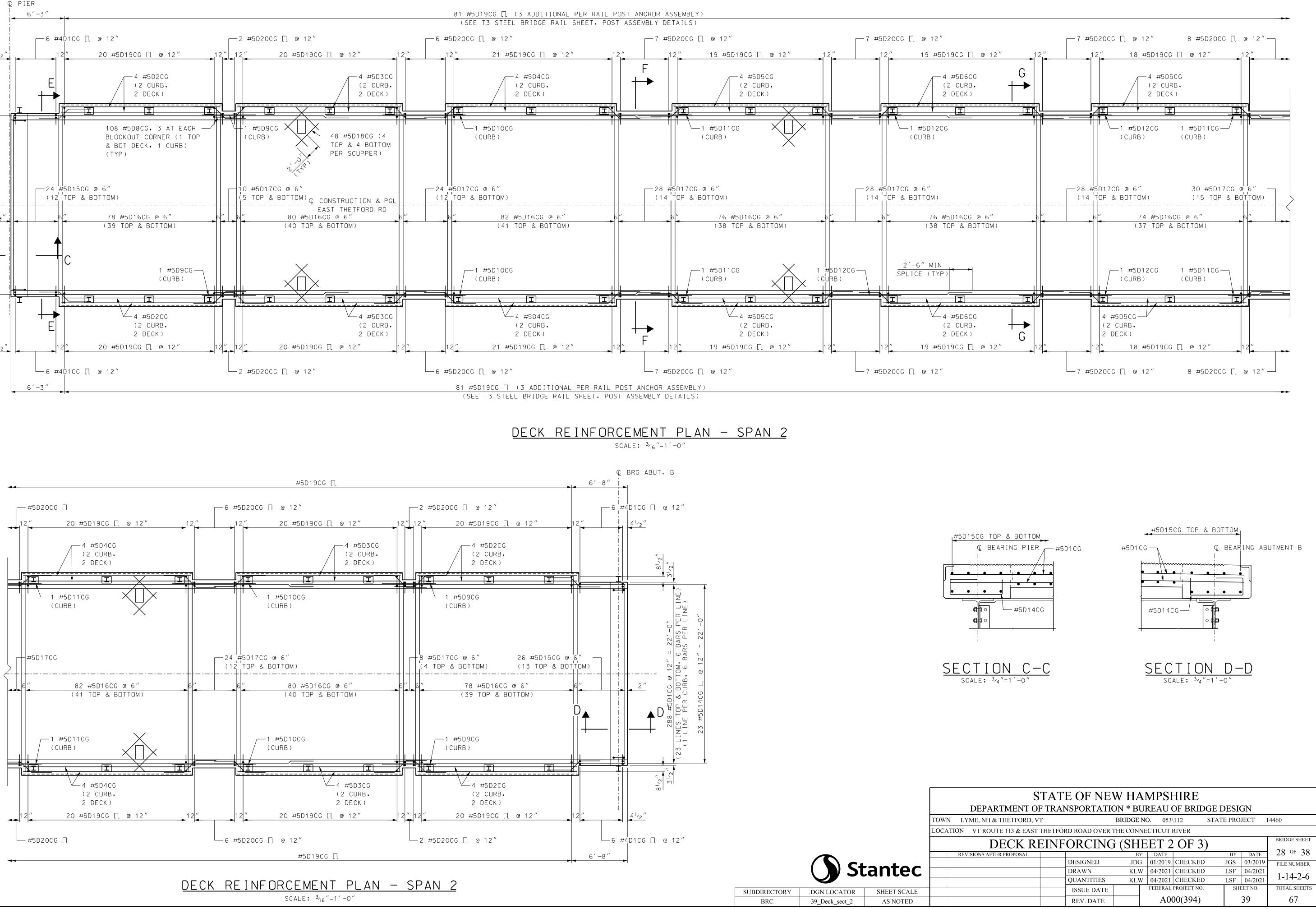
 $\frac{\text{SECTION} A-A}{\text{SCALE: } 3_{4''=1'-0''}}$ 

STA	STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN												
LYME, NH & THETFORD, VT BRIDGE NO. 053\112 STATE PROJECT 14460												
TON VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER												
BRIDGE DECK DETAILS												
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	26 OF 38					
	DESIGNED	JDG	01/2019	CHECKED	JGS	03/2019	FILE NUMBER					
	DRAWN	LRB	02/2019	CHECKED	JGS	03/2019	1 1 4 2 6					
	QUANTITIES	JDG	03/2019	CHECKED	TEK	03/2019	1-14-2-6					
	ISSUE DATE	EET NO.	TOTAL SHEETS									
	REV. DATE		A00	00(394)		37	67					

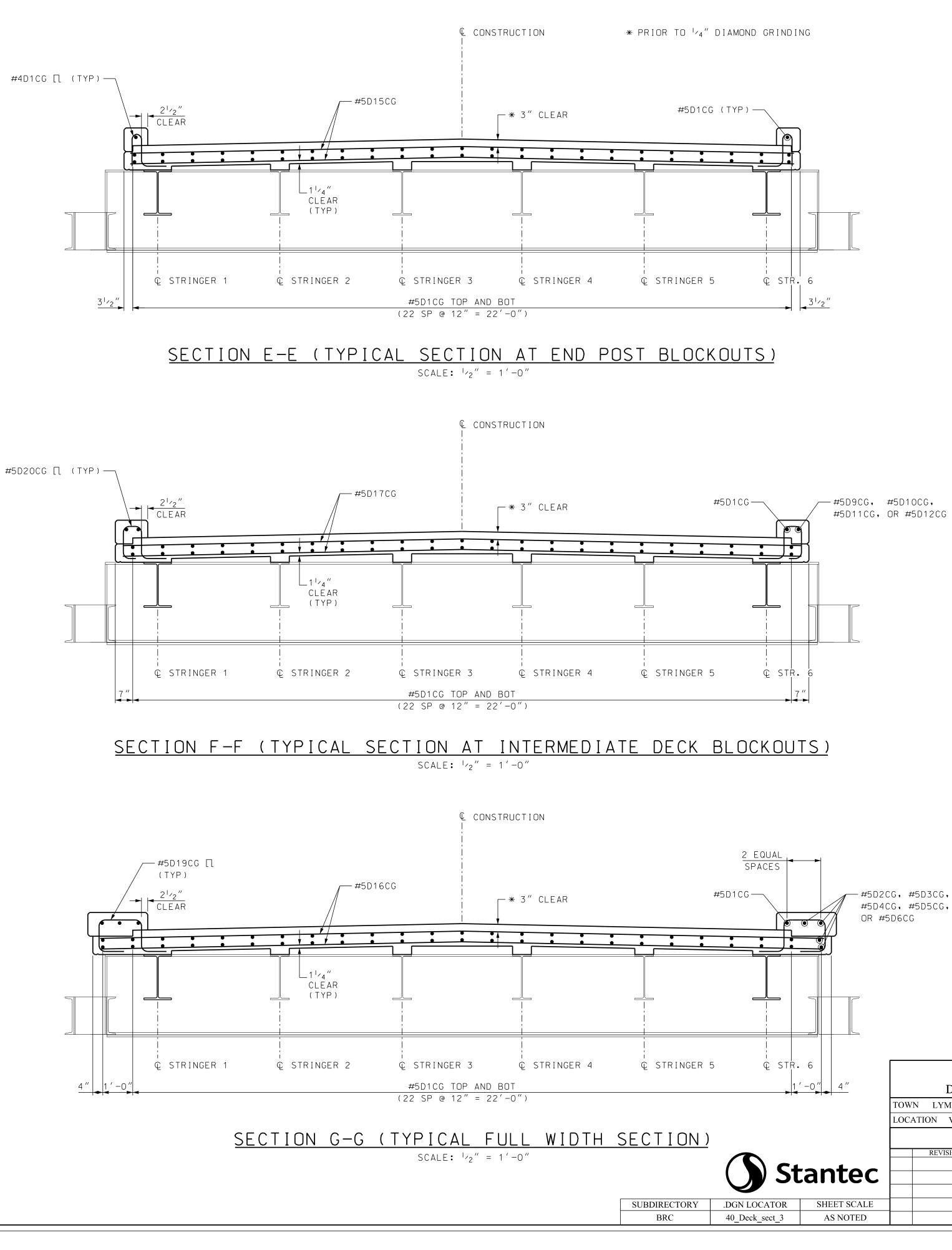


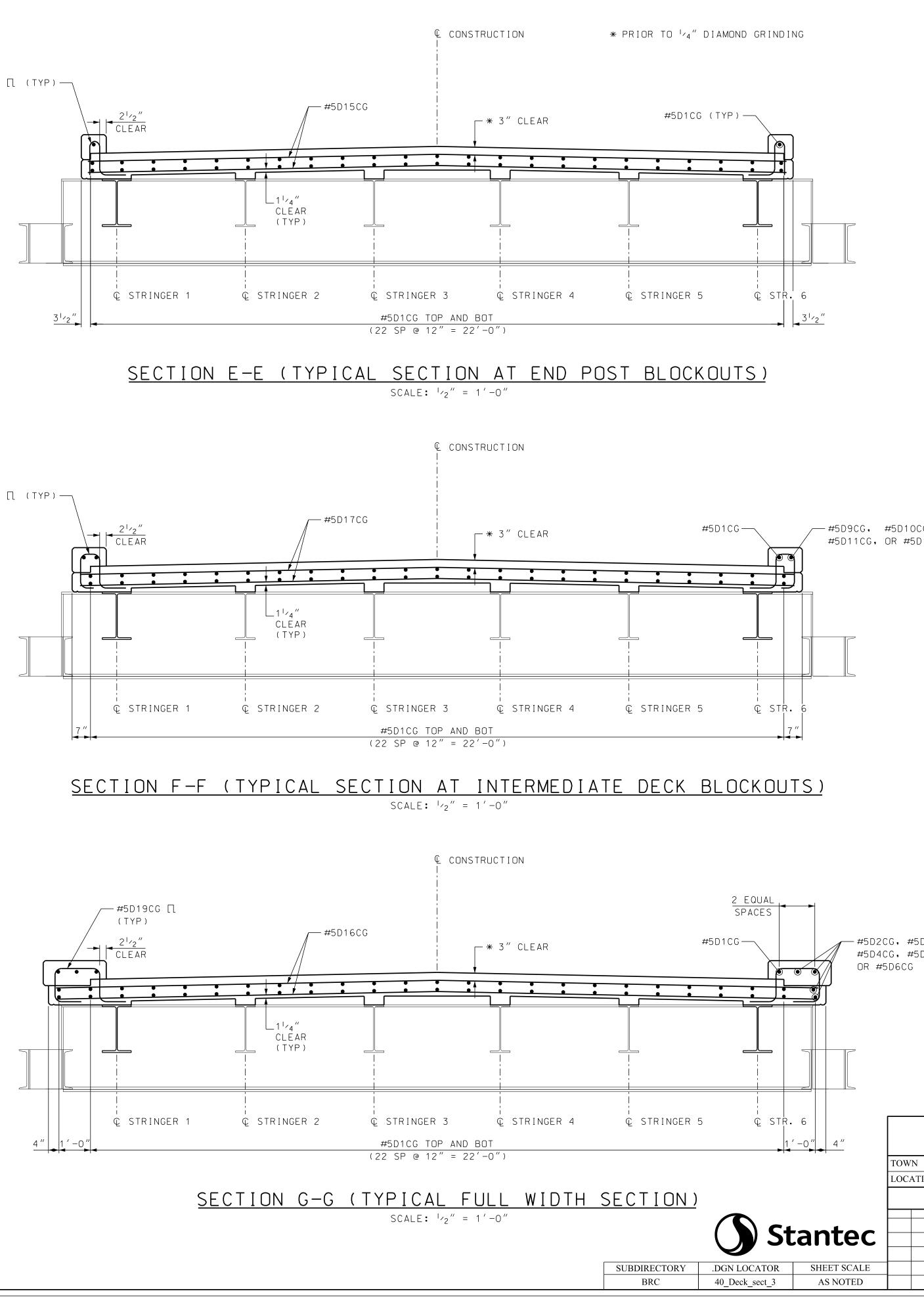


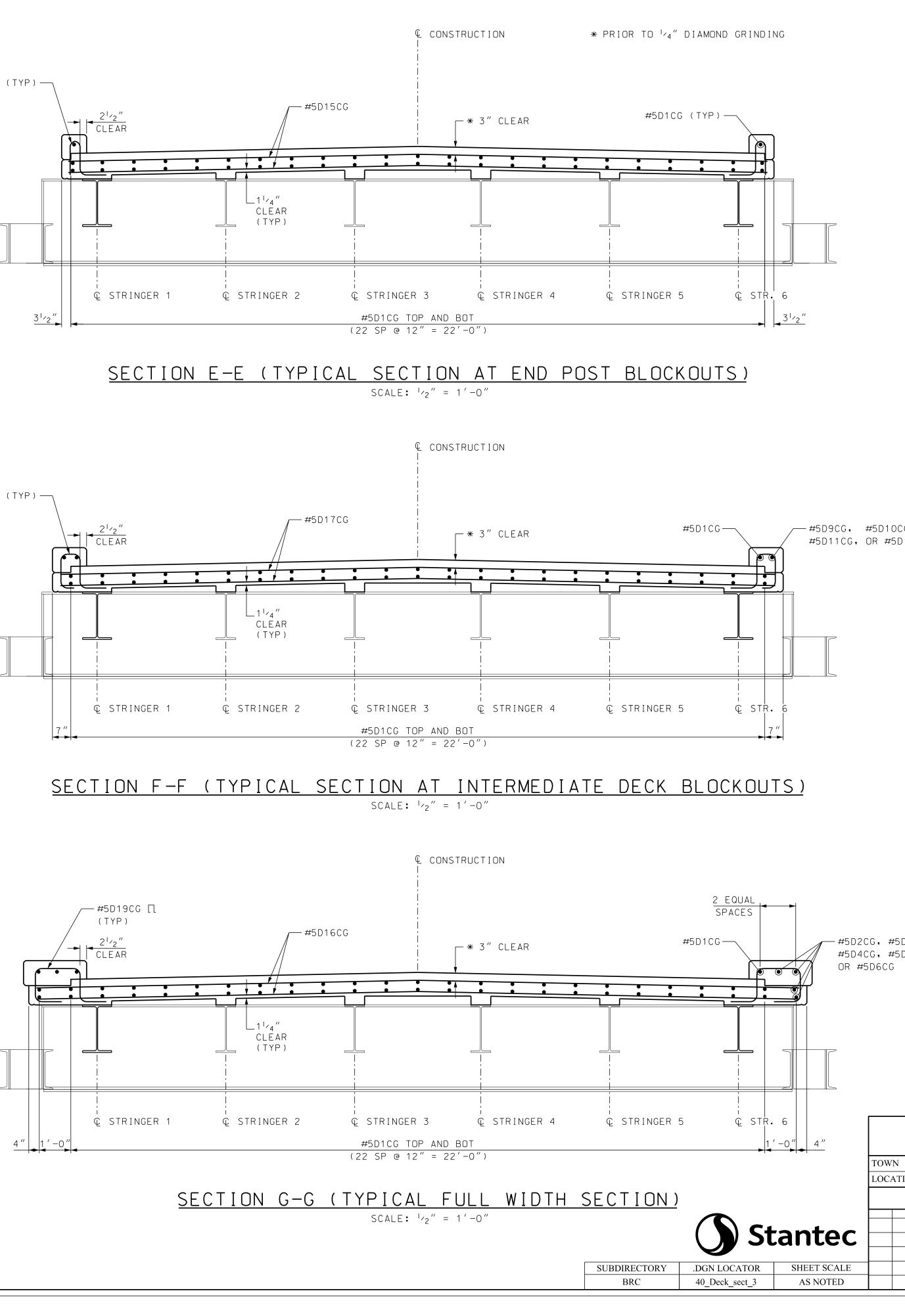




S	STATE OF NEW HAMPSHIRE												
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN													
LYME, NH & THETFORD, VT BRIDGE NO. 053/112 STATE PROJECT 14460													
ION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER													
DECK REINFORCING (SHEET 2 OF 3)													
REVISIONS AFTER PROPOSAL													
	DESIGNED	JDG	01/2019	CHECKED	JGS	03/2019	FILE NUMBER						
	DRAWN	KLW	04/2021	CHECKED	LSF	04/2021	1 1 4 9 6						
	QUANTITIES	KLW	04/2021	CHECKED	LSF	04/2021	1-14-2-6						
	ISSUE DATE		FEDERAL PROJECT NO.			EET NO.	TOTAL SHEETS						
	REV. DATE		A00	00(394)		39	67						





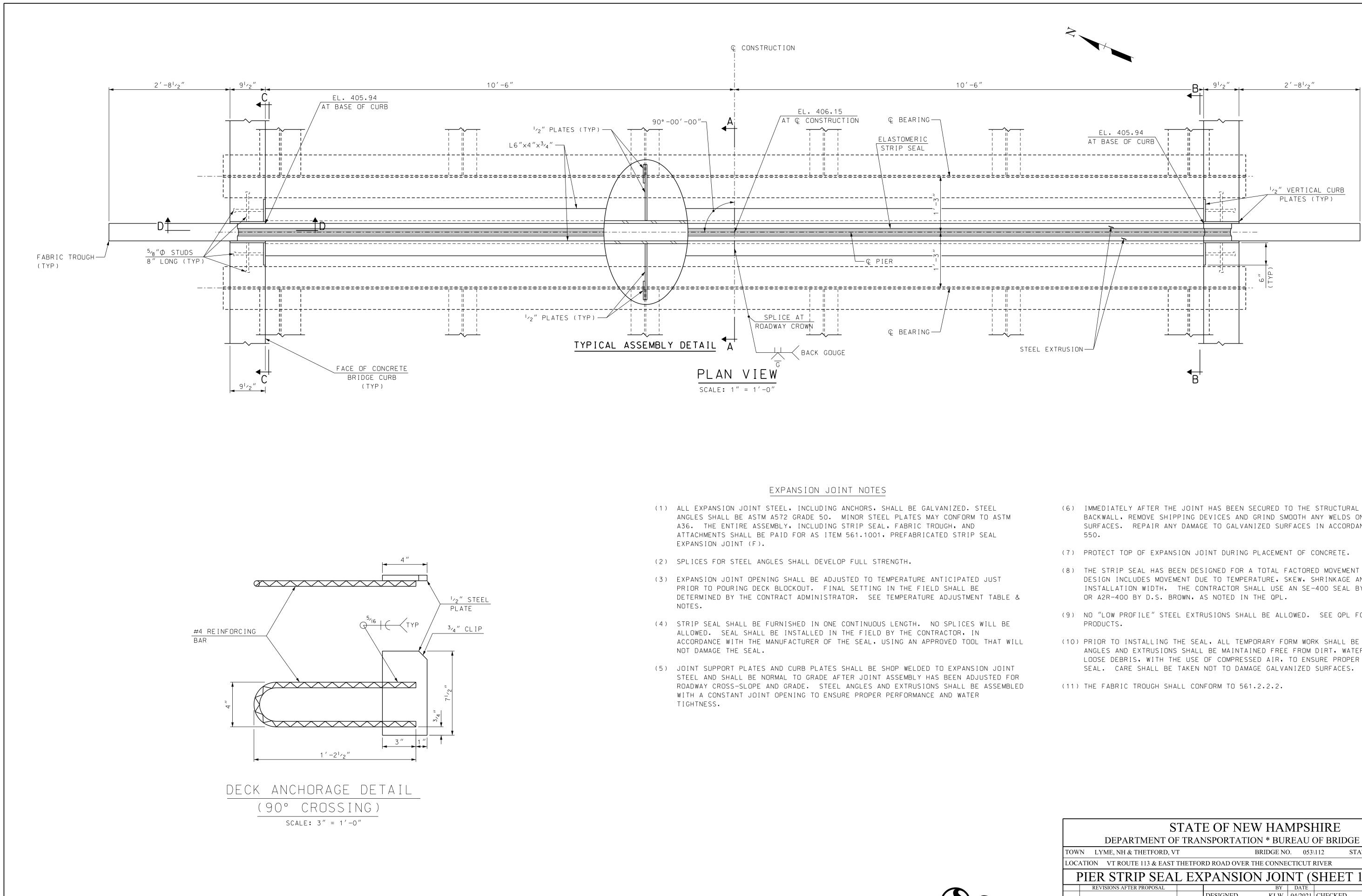




LYME, NH & THETFORD, VTBRIDGE NO.053\112STATE PROJECT14											
ON VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER											
DECK REINFORCING (SHEET 3 OF 3)											
REVISIONS AFTER PROPOSAL     BY     DATE     BY     DATE											
	DESIGNED	JDG	01/2019	CHECKED	JGS	03/2019	FILE NUMBER				
	DRAWN	KLW	04/2021	CHECKED	LSF	04/2021	1 1 4 2 (				
	QUANTITIES	KLW	04/2021	CHECKED	LSF	04/2021	1-14-2-6				
	ISSUE DATE		FEDERAL PROJECT NO.		SHI	EET NO.	TOTAL SHEETS				
	REV. DATE		A00	00(394)		40	67				

STATE OF NEW HAMPSHIRE

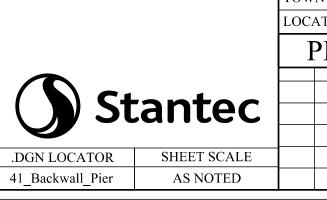
DEPARTMENT OF TRANSPORTATION \* BUREAU OF BRIDGE DESIGN



(1)	ALL EXPANSION JOINT STEEL, INCLUDING ANCHORS, SHALL BE GALVANIZED. STEEL ANGLES SHALL BE ASTM A572 GRADE 50. MINOR STEEL PLATES MAY CONFORM TO ASTM A36. THE ENTIRE ASSEMBLY, INCLUDING STRIP SEAL, FABRIC TROUGH, AND ATTACHMENTS SHALL BE PAID FOR AS ITEM 561.1001, PREFABRICATED STRIP SEAL EXPANSION JOINT (F).	(6)	IM BA SU 55
		(7)	PR
(2)	SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.		
		(8)	ΤH
(3)	EXPANSION JOINT OPENING SHALL BE ADJUSTED TO TEMPERATURE ANTICIPATED JUST		DE
	PRIOR TO POURING DECK BLOCKOUT, FINAL SETTING IN THE FIELD SHALL BE		ΙN
	DETERMINED BY THE CONTRACT ADMINISTRATOR. SEE TEMPERATURE ADJUSTMENT TABLE & NOTES.		OR
		(9)	NC
(4)	STRIP SEAL SHALL BE FURNISHED IN ONE CONTINUOUS LENGTH. NO SPLICES WILL BE ALLOWED, SEAL SHALL BE INSTALLED IN THE FIELD BY THE CONTRACTOR, IN		PR
	ACCORDANCE WITH THE MANUFACTURER OF THE SEAL, USING AN APPROVED TOOL THAT WILL	(10)	PR
	NOT DAMAGE THE SEAL.		٨N
			LC
(5)	JOINT SUPPORT PLATES AND CURB PLATES SHALL BE SHOP WELDED TO EXPANSION JOINT		SE
,	STEEL AND SHALL BE NORMAL TO GRADE AFTER JOINT ASSEMBLY HAS BEEN ADJUSTED FOR		
	ROADWAY CROSS-SLOPE AND GRADE. STEEL ANGLES AND EXTRUSIONS SHALL BE ASSEMBLED	(11)	ΤЦ
	NOADWAT GROUD JUIL AND GRADE. STELL ANGELS AND EXTRUSIONS SHALL DE ASSEMDLED	( ) )	

SUBDIRECTORY

BRC



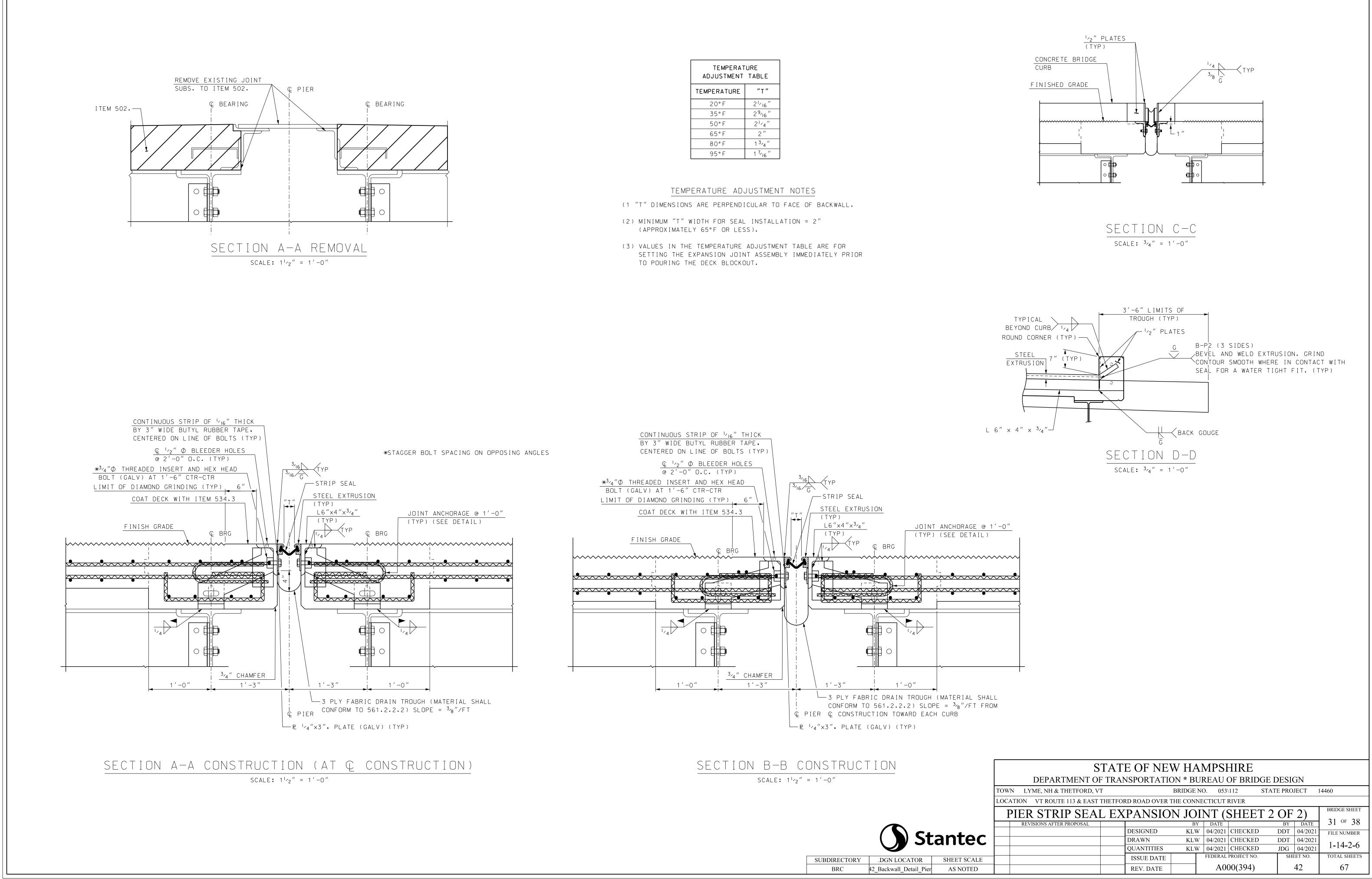
MMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND ACKWALL, REMOVE SHIPPING DEVICES AND GRIND SMOOTH ANY WELDS ON EXPOSED JRFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION

THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF  $2^{3}$ /4 INCHES. ESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM NSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN

) "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED. SEE QPL FOR APPROVED

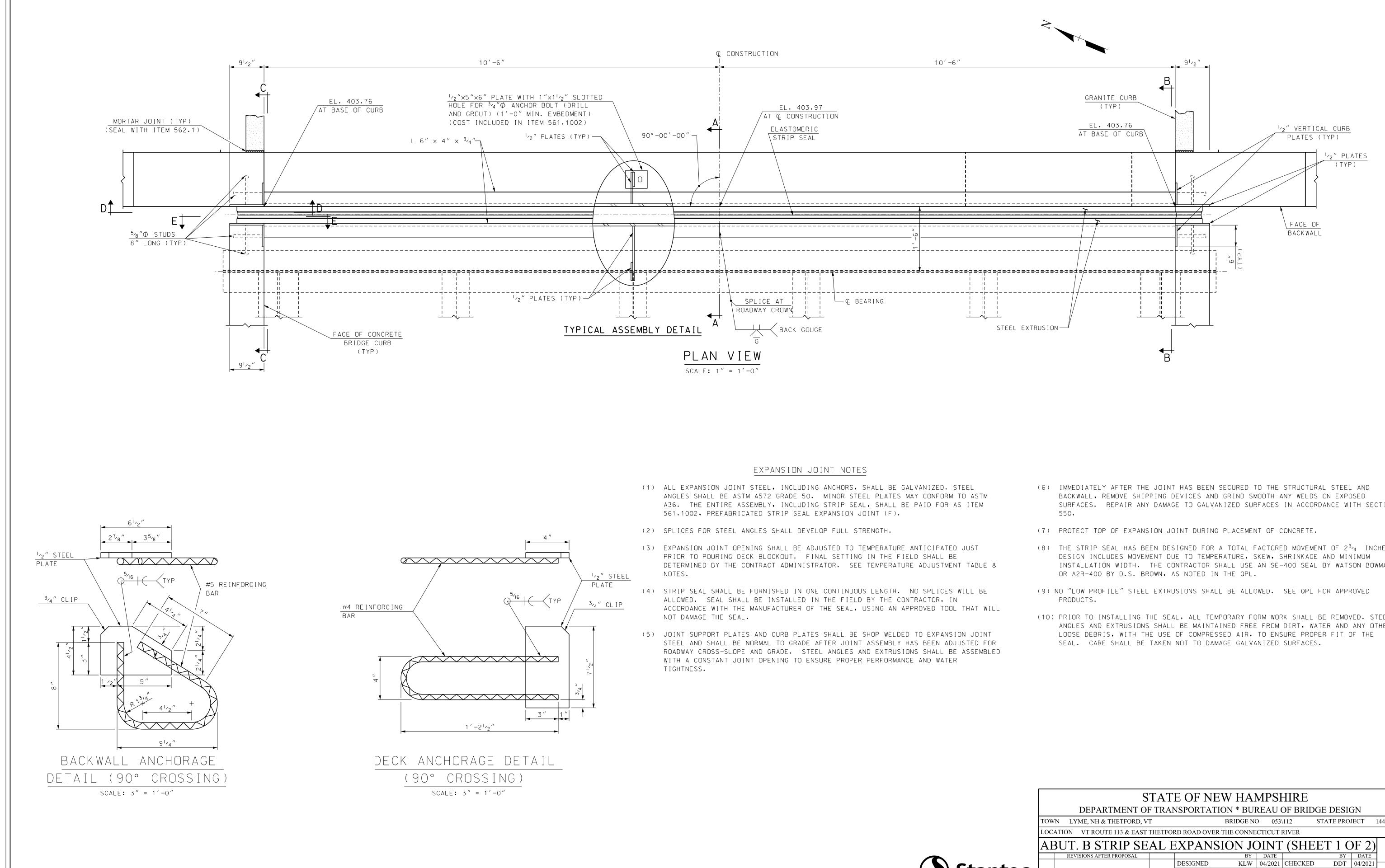
RIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WORK SHALL BE REMOVED. STEEL NGLES AND EXTRUSIONS SHALL BE MAINTAINED FREE FROM DIRT, WATER AND ANY OTHER OOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE

STATE OF NEW HAMPSHIKE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
LYME, NH & THETFORD, VT BRIDGE NO. 053/112 STATE PROJECT 14460											
ION VT ROUTE 113 & EAST THETFORD ROAD OVER THE CONNECTICUT RIVER											
ER STRIP SEAL EXPANSION JOINT (SHEET 1 OF 2)       BRIDGE SHEET         20.0F.28											
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	30 OF 38				
	DESIGNED	KLW	04/2021	CHECKED	DDT	04/2021	FILE NUMBER				
	DRAWN	KLW	04/2021	CHECKED	DDT	04/2021	11426				
	QUANTITIES	KLW	04/2021	CHECKED	JDG	04/2021	1-14-2-6				
	ISSUE DATE		FEDERAL PROJECT NO.		SH	EET NO.	TOTAL SHEETS				
	REV. DATE		A00	00(394)		41	67				



TEMPERAT ADJUSTMENT	
TEMPERATURE	"т"
20° F	2 <sup>1</sup> /16″
35°F	2 <sup>9</sup> /16″
50° F	21/4″
65°F	2″
80° F	1 <sup>3</sup> ′4 ″
95°F	1 <sup>7</sup> ⁄16 ″





	(1)	ALL EXPANSION JOINT STEEL, INCLUDING ANCHORS, SHALL BE GALVANIZED. STEEL ANGLES SHALL BE ASTM A572 GRADE 50. MINOR STEEL PLATES MAY CONFORM TO ASTM A36. THE ENTIRE ASSEMBLY, INCLUDING STRIP SEAL, SHALL BE PAID FOR AS ITEM 561.1002, PREFABRICATED STRIP SEAL EXPANSION JOINT (F).	(6)	I MM B A ( S U F 5 5 (
	(2)	SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.	(7)	PR
TEEL_	(3)	EXPANSION JOINT OPENING SHALL BE ADJUSTED TO TEMPERATURE ANTICIPATED JUST PRIOR TO POURING DECK BLOCKOUT, FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE CONTRACT ADMINISTRATOR, SEE TEMPERATURE ADJUSTMENT TABLE & NOTES,	(8)	THE DES INS OR
IP	(4)	STRIP SEAL SHALL BE FURNISHED IN ONE CONTINUOUS LENGTH. NO SPLICES WILL BE ALLOWED. SEAL SHALL BE INSTALLED IN THE FIELD BY THE CONTRACTOR, IN ACCORDANCE WITH THE MANUFACTURER OF THE SEAL, USING AN APPROVED TOOL THAT WILL NOT DAMAGE THE SEAL.	(9)   (10)	PR(
	(5)	JOINT SUPPORT PLATES AND CURB PLATES SHALL BE SHOP WELDED TO EXPANSION JOINT STEEL AND SHALL BE NORMAL TO GRADE AFTER JOINT ASSEMBLY HAS BEEN ADJUSTED FOR ROADWAY CROSS-SLOPE AND GRADE. STEEL ANGLES AND EXTRUSIONS SHALL BE ASSEMBLED WITH A CONSTANT JOINT OPENING TO ENSURE PROPER PERFORMANCE AND WATER		AN( LO( SE/

SUBDIRECTORY

BRC

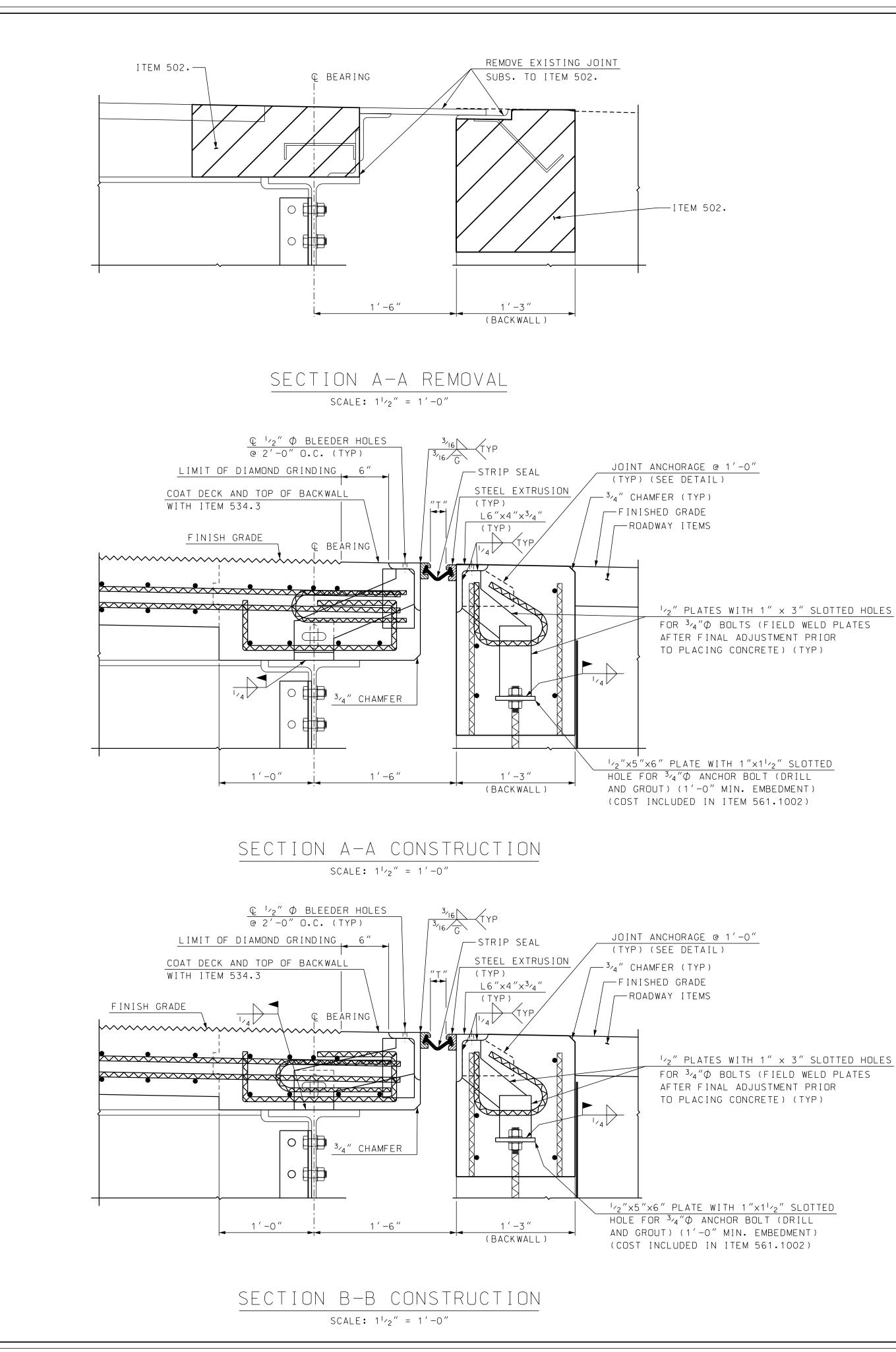
Stantec SHEET SCALE .DGN LOCATOR 43 Backwall AS NOTED

SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION

THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF  $2^{3}$ /4 INCHES. INSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN

PRIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WORK SHALL BE REMOVED. STEEL ANGLES AND EXTRUSIONS SHALL BE MAINTAINED FREE FROM DIRT, WATER AND ANY OTHER

STATE OF NEW HAMPSHIRE												
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN												
LYME, NH & THETFORD, VT     BRIDGE NO.     053\112     STATE PROJECT     14460												
TION VT ROUTE 113 & EAST THETFOR	D ROAD OVER T	THE CONNE	ECTICUT	RIVER								
UT. B STRIP SEAL EXPANSION JOINT (SHEET 1 OF 2)												
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE	32 of 38					
	DESIGNED	KLW	04/2021	CHECKED	DDT	04/2021	FILE NUMBER					
	DRAWN	KLW	04/2021	CHECKED	DDT	04/2021	1 1 4 2 6					
	QUANTITIES	KLW	04/2021	CHECKED	JDG	04/2021	1-14-2-6					
	ISSUE DATE		FEDERAL PROJECT NO.		SHI	EET NO.	TOTAL SHEETS					
	REV. DATE		A0	00(394)		43	67					



SUBDIRECTORY.DGN LOCATORSHEET SCALEBRC44_Backwall_DetailAS NOTED		St St	antec
BRC 44_Backwall_Detail AS NOTED	SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
	BRC	44_Backwall_Detail	AS NOTED

 $1_{2}$ " PLATES WITH 1" x 3" SLOTTED HOLES For  ${}^{3}_{\prime_{4}}{}''\phi$  bolts (field weld plates

AFTER FINAL ADJUSTMENT PRIOR

"т" TEMPERATURE 20°F 2<sup>1</sup>/16″ 35°F 2<sup>9</sup>/16 21/4″ 50°F 2″ 65°F 1 <sup>3</sup>′4″ 80°F 95°F 1<sup>7</sup>/16″

TEMPERATURE ADJUSTMENT NOTES

(1 "T" DIMENSIONS ARE PERPENDICULAR TO FACE OF BACKWALL.

(3) VALUES IN THE TEMPERATURE ADJUSTMENT TABLE ARE FOR

SETTING THE EXPANSION JOINT ASSEMBLY IMMEDIATELY PRIOR

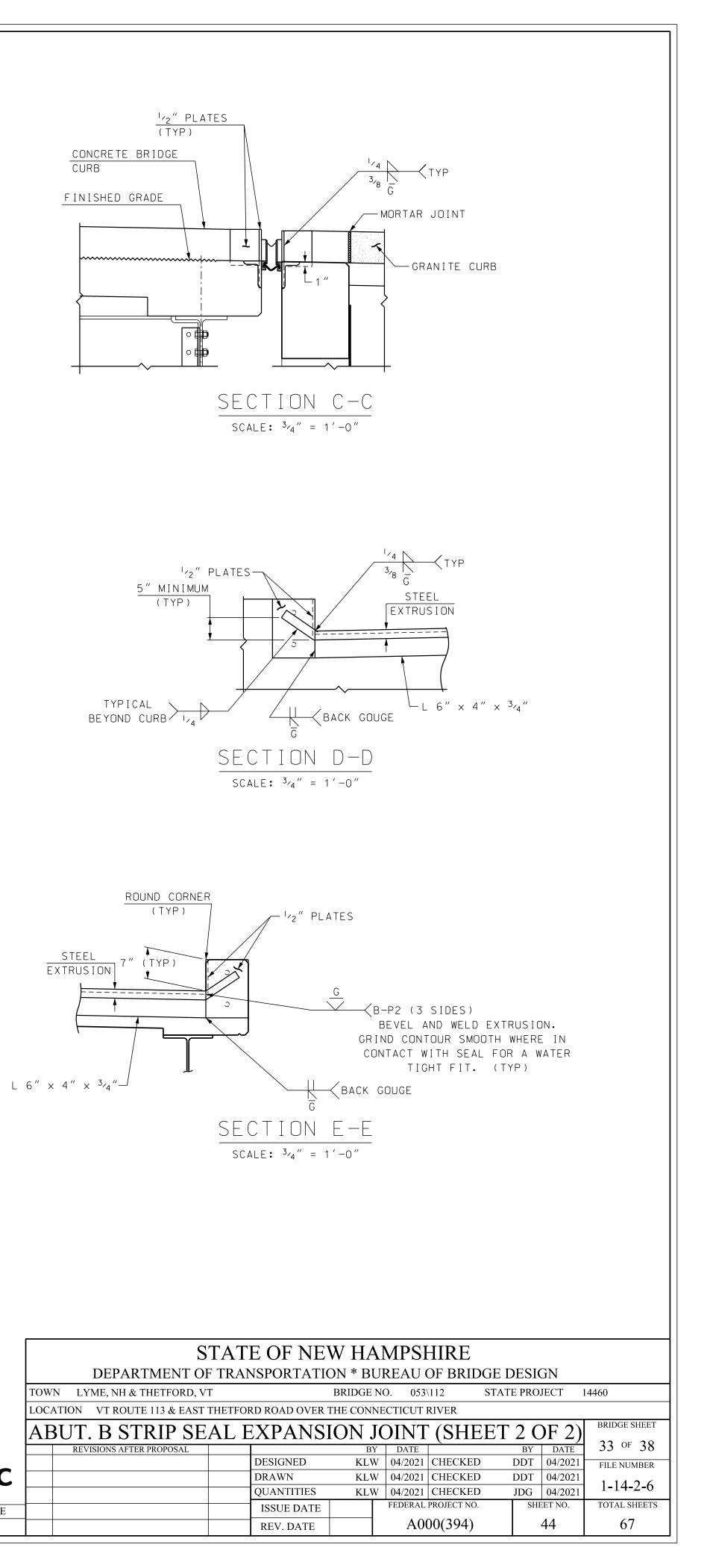
(2) MINIMUM "T" WIDTH FOR SEAL INSTALLATION = 2"

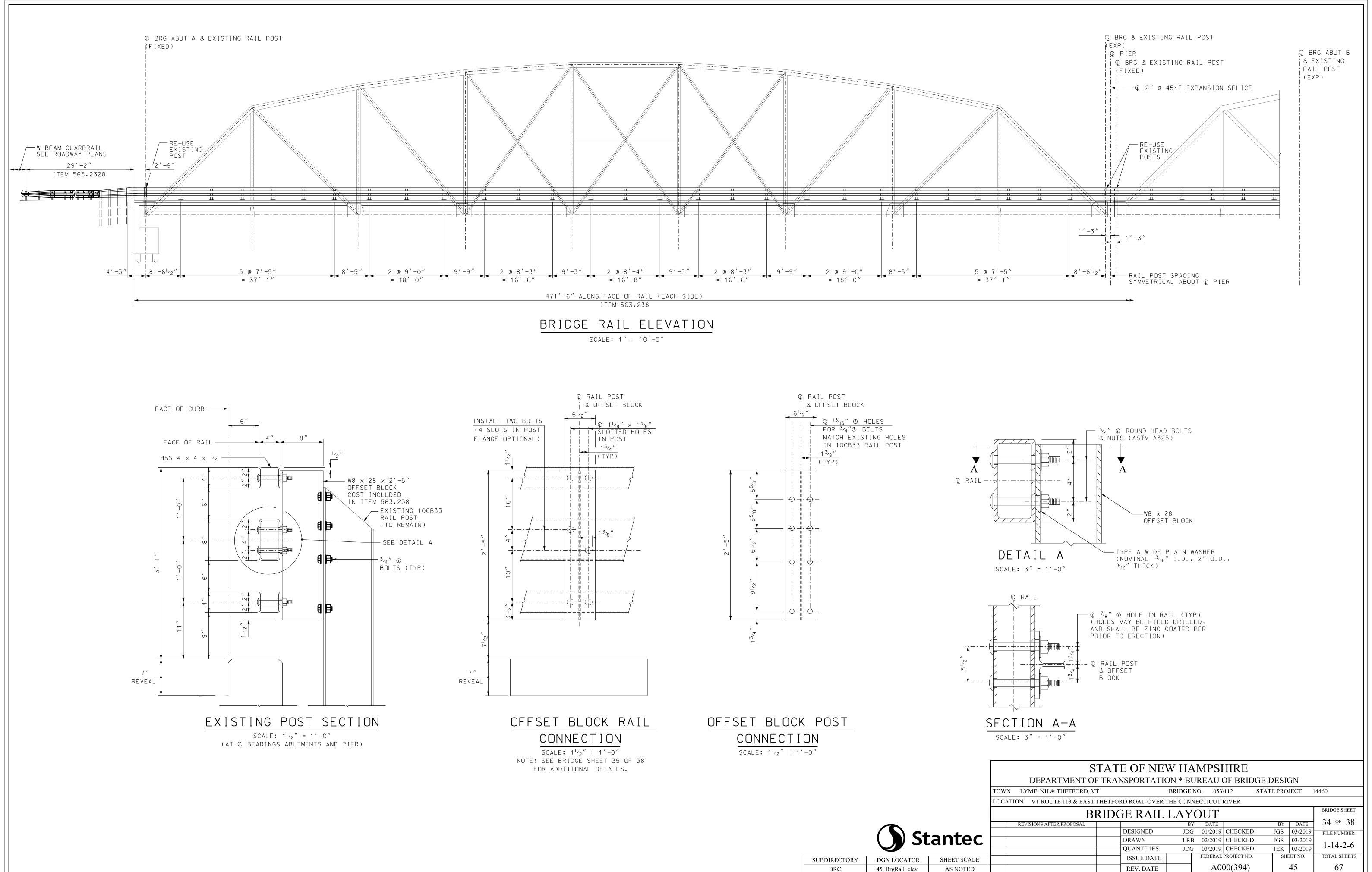
(APPROXIMATELY 65°F OR LESS).

TO POURING THE DECK BLOCKOUT.

TEMPERATURE

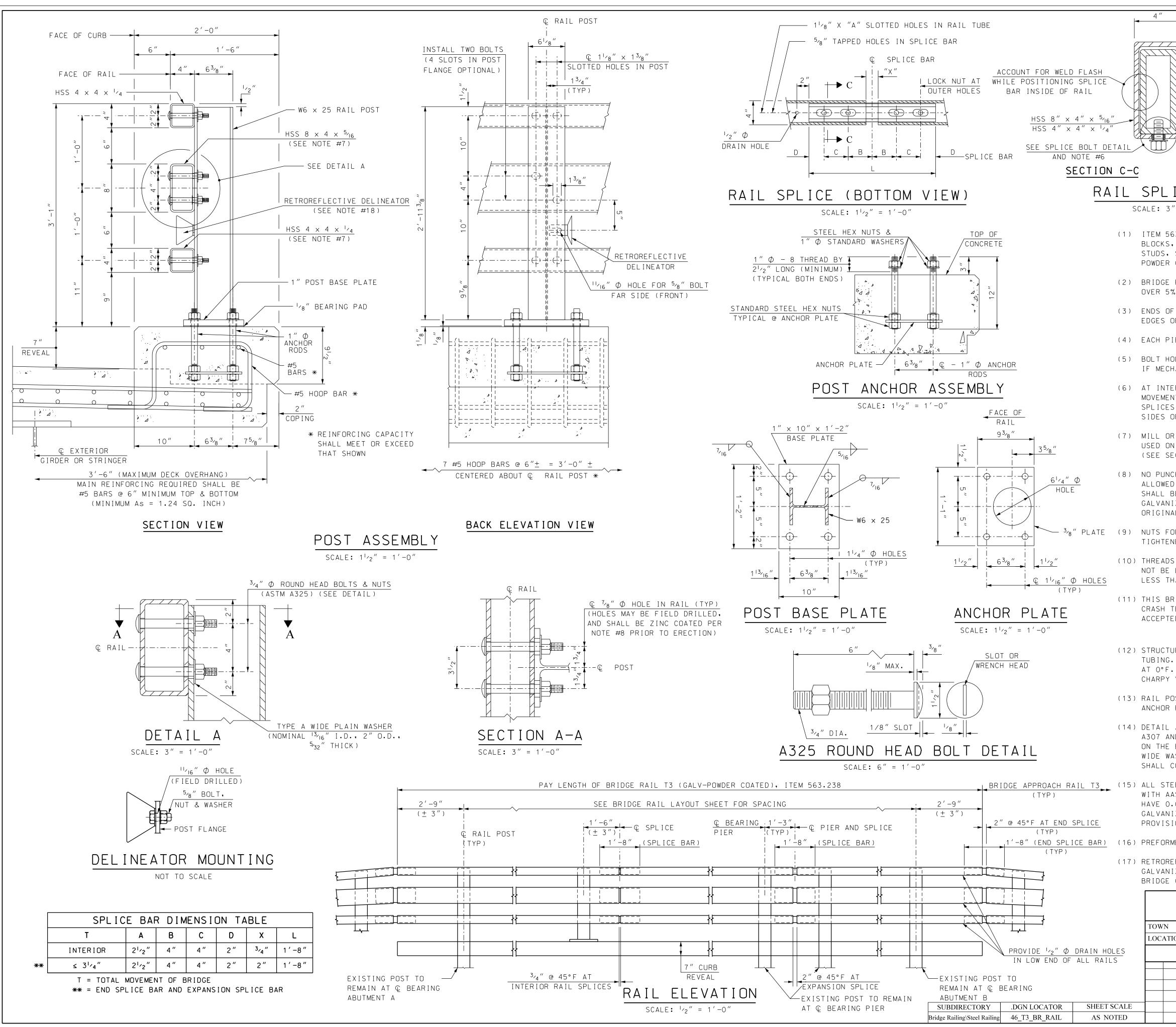
ADJUSTMENT TABLE





AS NOTED

REV. DATE



	$\frac{5}{3''} \times \frac{3''}{\times} \times \frac{3_{8}''}{5_{16}''}$	<sup>5</sup> /8" × 1 <sup>3</sup> /4" A307 CAP SCREW	
	→ × → × → <sub>16</sub> ″	LOCK NUT /(OUTER HOLES ONLY	)
	STANDARD WASHER		VELD Pe spacer Long (galv.)
´ SPLICE BA	APPED HOLE R SECTION		
ICE DETAILS		LICE BOLT DETA	л I I
" = 1' - 0''		SCALE: 6" = 1'-0"	
, ANCHOR PLATES, ANCH	IOR RODS, PREFORMED PADS	ES shall include posts, base f , rail assembly bolts, nuts, s, all appurtenances, galvan	WASHERS,
RAIL POSTS SHALL BE % where posts shall e		TO THE PROFILE GRADE, EXCEP	YT ON GRADES
F RAIL TUBE SECTIONS OF ALL MATERIAL SHALL		D AND SHALL BE TRUE AND SMOC	)TH. ALL CUT
IECE OF RAIL TUBING S	SHALL BE ATTACHED TO A M	INIMUM OF THREE (3) POSTS.	
OLES SHALL BE DRILLED HANICALLY GUIDED.	) OR PUNCHED. FLAME CUT	TING MAY BE USED TO FINISH S	LOTTED HOLES
NT ON THAT SIDE. ALL S AT ABUTMENTS, AND E	RAILS IN A SPLICE SHALL	ONLY ONE SIDE OF THE SPLICE RECEIVE THE SAME TREATMENT. R, PIPE SPACERS SHALL BE USE	AT END
		ED ON ANY RAIL ELEMENT. RAIL Be shop formed to the requir	
D IN DETAIL A, AND FO BE THOROUGHLY CLEANED IZING REPAIR PAINT, H	OR INSTALLATION OF DELIN ), pretreated, and paint	PERMITTED AFTER GALVANIZING EATORS. DAMAGED AREAS OF GAL ED WITH TWO COATS OF ORGANIC C BY WEIGHT, TO A THICKNESS ND ASTM A780.	VANIZING ZINC-RICH
•	HOR RODS CONNECTING THE ) GIVEN AN ADDITIONAL <sup>1/</sup> 8	BASE PLATE TO THE CONCRETE TURN.	SHALL BE
	AMETER. IF ROLLED THRE	CUT THREADS ARE USED, BOLT D ADS ARE USED, ROD DIAMETER S	
TESTED FOR AASHTO PL2			
<ul><li>RAIL TUBING SHALL</li><li>FOR ASTM A500, GRA</li></ul>	NFORM TO THE REQUIREMENT	S OF ASTM A500, GRADE B, STR HARPY V-NOTCH REQUIREMENTS O SHALL BE TAKEN AFTER FORMINO	DF 15 FT. LBS.
OSTS AND BASE PLATES PLATES MAY BE ASTM A		QUIREMENTS OF ASTM A572 GR 5	O, EXCEPT
ND ASTM 563 GRADE A F BOTTOM OF ANCHOR ASS	RESPECTIVELY OR BETTER, D Sembly, Washers Shall B The Dimensional Require	HER BOLTS AND NUTS SHALL CON EXCEPT THAT ASTM A307 NUTS M E HARDENED STEEL COMMERCIAL EMENTS OF A.N.S.I. B18.22. A	IAY BE USED TYPE A PLAIN
ASHTO M232 (ASTM A153 .05 TO 0.09 PERCENT N	3) AND AASHTO M111 (ASTM NICKEL. GALVANIZED SURFA	ALVANIZED AFTER FABRICATION A123). THE GALVANIZING KET CES SHALL HAVE A UNIFORM APF DUPLEX COATING IS REQUIRED S	TLE SHALL PEARANCE AND
MED BEARING PADS (1/8	3" THICK) SHALL CONFORM	TO AASHTO M251.	
IZING TOUCH-UP, SHALL		AND FIELD DRILLING OF POSTS, 563.238. SEE STANDARD PLANS AND SPACING.	
	TATE OF NEW HA	MPSHIRE JREAU OF BRIDGE DESIGN	
LYME, NH-THETFORD, VT	BRIDGE 1		14460
	STEEL BRIDGE I	RAIL	BRIDGE SHEET
REVISIONS AFTER PROPOSAL	BY DESIGNED NETC/JSZ		35 OF 38

DRAWN

**QUANTITIES** 

ISSUE DATE 11/15/05

REV. DATE 8/29/19

PJP

10/05 CHECKED JSZ

CHECKED

FEDERAL PROJECT NO.

A000(394)

10/05

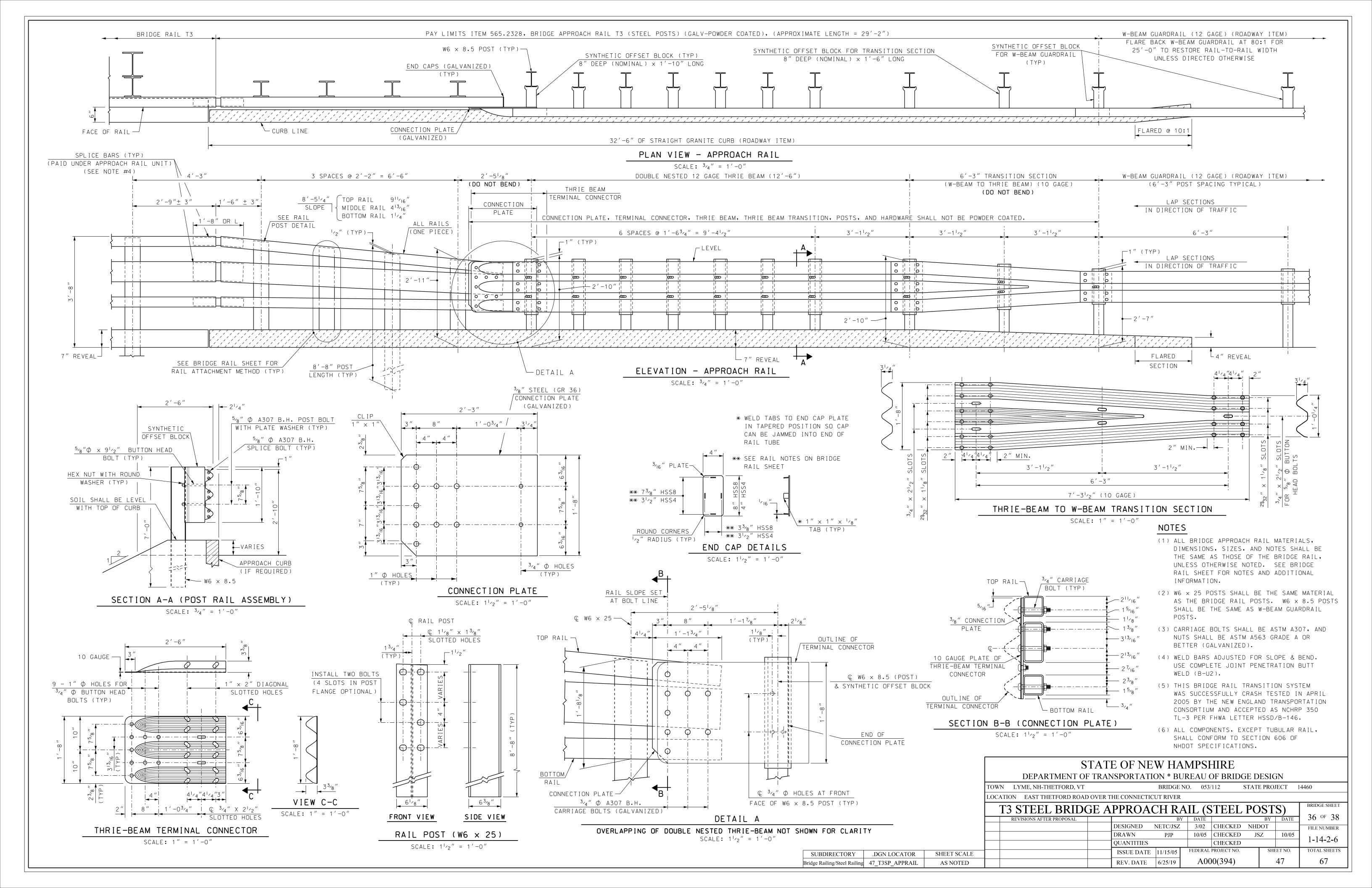
SHEET NO.

46

1-14-2-6

TOTAL SHEETS

67



# ABUTMENT A

## BRIDGE SHEET 11 OF 38

Mark	Size	Length	# Pieces	Туре	А	В	С	D	Е	F	G	Н	J	K	R	0	Coating
A1	#5	28.58	4														EPOXY
A2	#5	2.71	8														EPOXY
A3	#5	1.96	4														EPOXY
A4	#5	6.17	8														EPOXY
A5	#5	5.83	6														EPOXY
A6	#5	2.63	4														EPOXY
A7	#5	2.33	2														EPOXY
A1	#4	4.60	4	S5	1.50	0.60	1.83	0.67			0.00						EPOXY

## SECTION SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	0	0	0	0	0	0	0	0	0	0
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	12	254	0	0	0	0	0	0	0	0	266
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0
544.43	CONTINUOUSLY GALV.	0	0	0	0	0	0	0	0	0	0	0	0
544.51	STAINLESS STEEL	0	0	0	0	0	0	0	0	0	0	0	0

ABUTM	IENT B		BRIDGE SHEET 14 OF 38														
Mark	Size	Length	# Pieces	Туре	А	В	С	D	Е	F	G	Н	J	K	R	0	Coating
B1	#5	28.58	4														EPOXY
B2	#5	3.13	4														EPOXY
B3	#5	3.58	4														EPOXY
B1	#4	4.67	4	S5	0.00	1.83	0.33	1.83			0.67						EPOXY

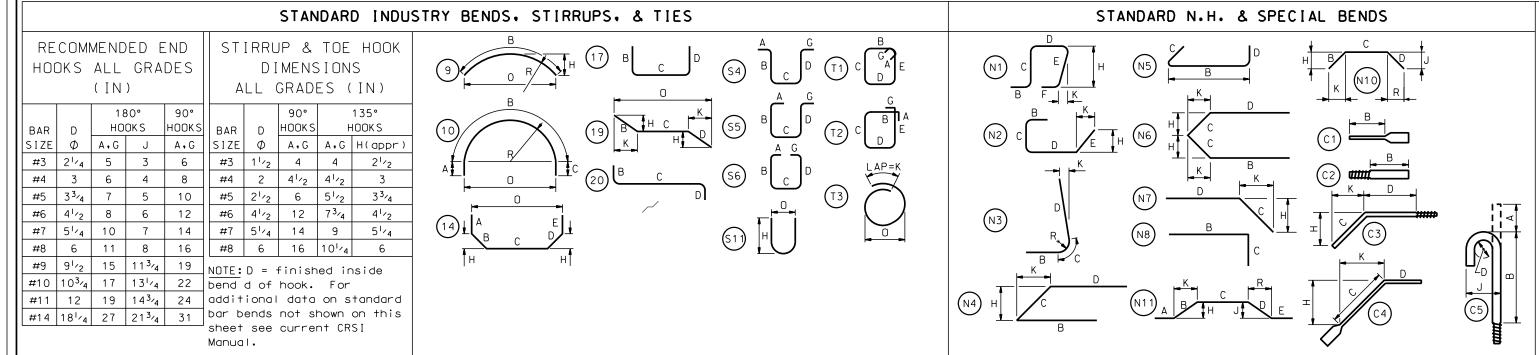
## SECTION SUMMARY TOTAL WEIGHT (lbs):

			· · ·										
ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	0	0	0	0	0	0	0	0	0	0
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	12	147	0	0	0	0	0	0	0	0	160
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0
544.43	CONTINUOUSLY GALV.	0	0	0	0	0	0	0	0	0	0	0	0
544.51	STAINLESS STEEL	0	0	0	0	0	0	0	0	0	0	0	0

PIER					BRIDGE	SHEET	16 OF 38	3									
Mark	Size	Length	# Pieces	Туре	Α	В	С	D	Е	F	G	Н	J	K	R	0	Coating
P1	#5	3.75	56	N8		2.75	1.00										
P2	#5	4.75	32	N8		3.75	1.00										
P3	#5	4.83	96														
P4	#5	37.00	10														
P5	#5	19.67	10	N6		3.58	6.25	3.58				4.42		4.42			

## SECTION SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	1453	0	0	0	0	0	0	0	0	1453
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	0	0	0	0	0	0	0	0	0	0	0
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0
544.43	CONTINUOUSLY GALV	0	0	0	0	0	0	0	0	0	0	0	0
544.51	STAINLESS STEEL	0	0	0	0	0	0	0	0	0	0	0	0



	OF THE "SPECIFICATIONS FOR DEFORMED BILLET -													
	REINFORCEMENT", AASHTO M 31-94 (ASTM A615). 3. FOR TYPICAL BENDING DETAILS, RECOMMENDED AND HOOKS AND OTHER STANDARD PRACTICE REFER REINFORCING STEEL INSTITUTE "MANUAL OF STAND 4. BARS WHICH REQUIRE MORE ACCURATE BENDING	TO THE CURRENT CONCRETE DARD PRACTICE".	SIZE LBS/ #3 0.3		0.11		D	EPARTME				MPSHIRE reau of bride	GE DESIGN	
B	SHOULD HAVE LIMITS INDICATED. 5. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCE		#5 1.0	43 0.625		TOW	'N LYME	E, NH & THETFO	ORD, VT		BRIDGE N	O. 053\112	STATE PROJECT	14460
	STANDARD 180° AND 135° HOOKS.			02 0.750 44 0.875		LOCA	ATION V	T ROUTE 113 &	Z EAST THETFO	RD ROAD OVER T	HE CONN	ECTICUT RIVER		
!'	6. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ( ◄ RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS		#8 2.6	70 1.000	0.79		F	REINFO	RCING	<b>SCHEDU</b>	LE (S	SHEET 1 OF	2)	BRIDGE SHEET
) (A	7. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONL MAINTAIN CLEARANCES.	LY WHEN NECESSARY TO		00 1.128 03 1.270				ONS AFTER PROPO			BY		BY DATE	37 of 38
	8. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS '	"H" AND "K" MUST BE SHOWN		13 1.410						DESIGNED		04/2021 CHECKED	LSF 04/2021	FILE NUMBER
	▲ DENOTES BARS TO BE CUT IN FIELD, AS	REQUIRED.	#14 7.6 #18 13.6	50 1.693						DRAWN QUANTITIES	KLW KLW	04/2021 CHECKED 04/2021 CHECKED	LSF 04/2021 JDG 04/2021	1-14-2-6
4 (C5)	↓ ▲ DENOTES BARS TO BE BENT IN FIELD.	SUBDIRECTORY .D	GN LOCATOR	1	T SCALE					ISSUE DATE		FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
			60Rebar_Sch_01		NOTED					REV. DATE		A000(394)	48	67
				I					1			, ,		

ASTM STANDARD

REINFORCING BARS

NOTES: 1. FIGURES IN CIRCLE SHOW TYPE OF BEND.

2. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE

IN SIZES UP TO AND INCLUDING #18 SHALL CONFORM TO THE REQUIREMENTS

	Stantec
--	---------

DECI

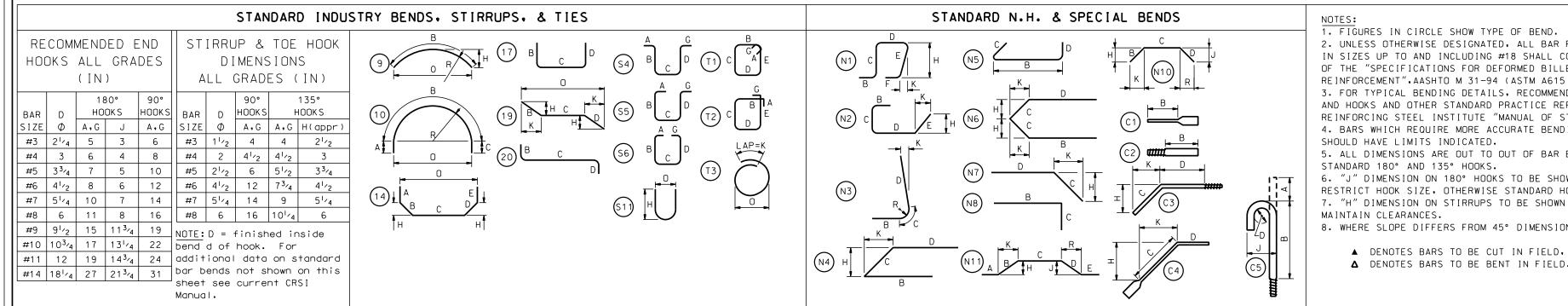
DECK				В	RIDGE S	HEET 27	7-29 OF 2	38									
Mark	Size	Length	# Pieces	Туре	А	В	С	D	Е	F	G	Н	J	K	R	0	Coating
D1	#4	3.27	52	S5	0.00	1.06	0.31	1.06			0.83						CG
D1	#5	41.25	576														CG
D2	#5	19.67	32														CG
D3	#5	20.08	32														CG
D4	#5	20.67	32														CG
D5	#5	18.92	32														CG
D6	#5	19.08	16														CG
D7	#5	5.00	23	S5	0.83	0.42	3.33	0.42			0.00						CG
D8	#5	6.53	216	19		2.50	1.53	2.50				1.77		1.77		5.07	CG
D9	#5	6.67	8														CG
D10	#5	10.33	8														CG
D11	#5	11.83	8														CG
D12	#5	11.42	8														CG
D14	#5	3.63	69	S5	0.83	0.58	1.63	0.58			0.00						CG
D15	#5	22.17	106														CG
D16	#5	24.25	1412														CG
D17	#5	22.75	360														CG
D18	#5	4.00	96														CG
D19	#5	5.21	1032	S5	0.83	1.06	1.42	1.06			0.83						CG
D20	#5	3.98	180	S5	0.42	1.06	0.60	1.06			0.83						CG

## SECTION SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	0	0	0	0	0	0	0	0	0	0
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	0	0	0	0	0	0	0	0	0	0	0
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0
544.43	CONTINUOUSLY GALV.	0	114	83396	0	0	0	0	0	0	0	0	83510
544.51	STAINLESS STEEL	0	0	0	0	0	0	0	0	0	0	0	0

## GRAND SUMMARY TOTAL WEIGHT (lbs):

ITEM #	DESCRIPTION	#3	#4	#5	#6	#7	#8	#9	#10	#11	#14	#18	TOTAL
544	REINFORCING STEEL	0	0	1453	0	0	0	0	0	0	0	0	1453
544.11	MECH. CONNECTOR	0	0	0	0	0	0	0	0	0	0	0	0
544.2	EPOXY COATED	0	24	401	0	0	0	0	0	0	0	0	426
544.21	EPOXY MECH. CON.	0	0	0	0	0	0	0	0	0	0	0	0
544.43	CONTINUOUSLY GALV.	0	114	83396	0	0	0	0	0	0	0	0	83510
544.51	STAINLESS STEEL	0	0	0	0	0	0	0	0	0	0	0	0



))		I SI THE SIECTITERTIONS FOR DEFORMED DIELET	STELL DANS FOR CON															
		REINFORCEMENT",AASHTO M 31-94 (ASTM A615).			BAR WE		M CROSS SECT	]┏━━━										
		3. FOR TYPICAL BENDING DETAILS, RECOMMENDED F			SIZE LB		AREA IN <sup>2</sup>				<b>ΥΛΤ2</b>	<b>E OF NEV</b>	V H A	MDCI	<b>HBE</b>			
		AND HOOKS AND OTHER STANDARD PRACTICE REFER		CRETE		.376 0.37		11			DIAI	LOFILV			IIINL			
		REINFORCING STEEL INSTITUTE "MANUAL OF STAND				.668 0.50		-11	D	<b>DEPARTME</b>	ENT OF TRA	NSPORTATIO	N * BU	REAU	OF BRIDGE	DESIC	ΤN	
D		4. BARS WHICH REQUIRE MORE ACCURATE BENDING	THAN STANDARD PRACT	ICES				┨┣━━━										
		SHOULD HAVE LIMITS INDICATED.			#5 1	.043 0.62	5 0.31	TOV	WN LYMI	E, NH & THETF	FORD, VT	I	BRIDGE N	O. 053	.112 ST	ATE PROJ	ECT 1	4460
		5. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEP	PT "A" AND "G" ON		#6 1	.502 0.75	0 0.44						TE COLD I					
		STANDARD 180° AND 135° HOOKS.			#7 2	.044 0.87	5 0.60		CATION V	T ROUTE 113 a	& EAST THETFO	RD ROAD OVER TH	HE CONNI	ECTICUT	RIVER			
	17 1	6. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ON		ТО	#8 2	.670 1.00	0.79		T			COULDI				$\overline{\mathbf{n}}$		BRIDGE SHEET
<u> </u>		RESTRICT HOOK SIZE, OTHERWISE STANDARD HOOKS							KEINFU	JKUINU	SCHEDU	LE ( 2	HEE	1 2  OF	2)			
3)		7. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONL	Y WHEN NECESSARY TO	)		.400 1.12			-	ONS AFTER PROPO			BY	DATE		BY	DATE	38 of 38
	$(\Omega)$	MAINTAIN CLEARANCES.			#10 4	.303 1.27	0 1.27		ICL VISIO	ONS AFTER TROP	USAL	DEGLONED			OUFOVED		22	
•		8. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H	H″ AND ″K″ MUST BE	SHOWN.	#11 5	.313 1.41	0 1.56					DESIGNED	KLW	04/2021	CHECKED	LSF	04/2021	FILE NUMBER
					#14 7	.650 1.69	3 2.25	1				DRAWN	KLW	04/2021	CHECKED	LSF	04/2021	1 1 4 2 (
$\sim$		▲ DENOTES BARS TO BE CUT IN FIELD, AS F ▲ DENOTES BARS TO BE BENT IN FIELD.	REQUIRED.		#18 13	.600 2.25	4.00					QUANTITIES	KLW	04/2021	CHECKED	JDG	04/2021	1-14-2-6
24)			SUBDIRECTORY	DCNL	DCATOR	SHI	EET SCALE					ISSUE DATE		FEDERAL	PROJECT NO.	SHF	ET NO.	TOTAL SHEETS
			SUBDIKECTORY											1.04	0(204)		40 I	(7
	8		BRC	14460Reb	ar_Sch_02	2 A	S NOTED					REV. DATE		A00	)0(394)	4	49	67
				•		•		•	·			•						

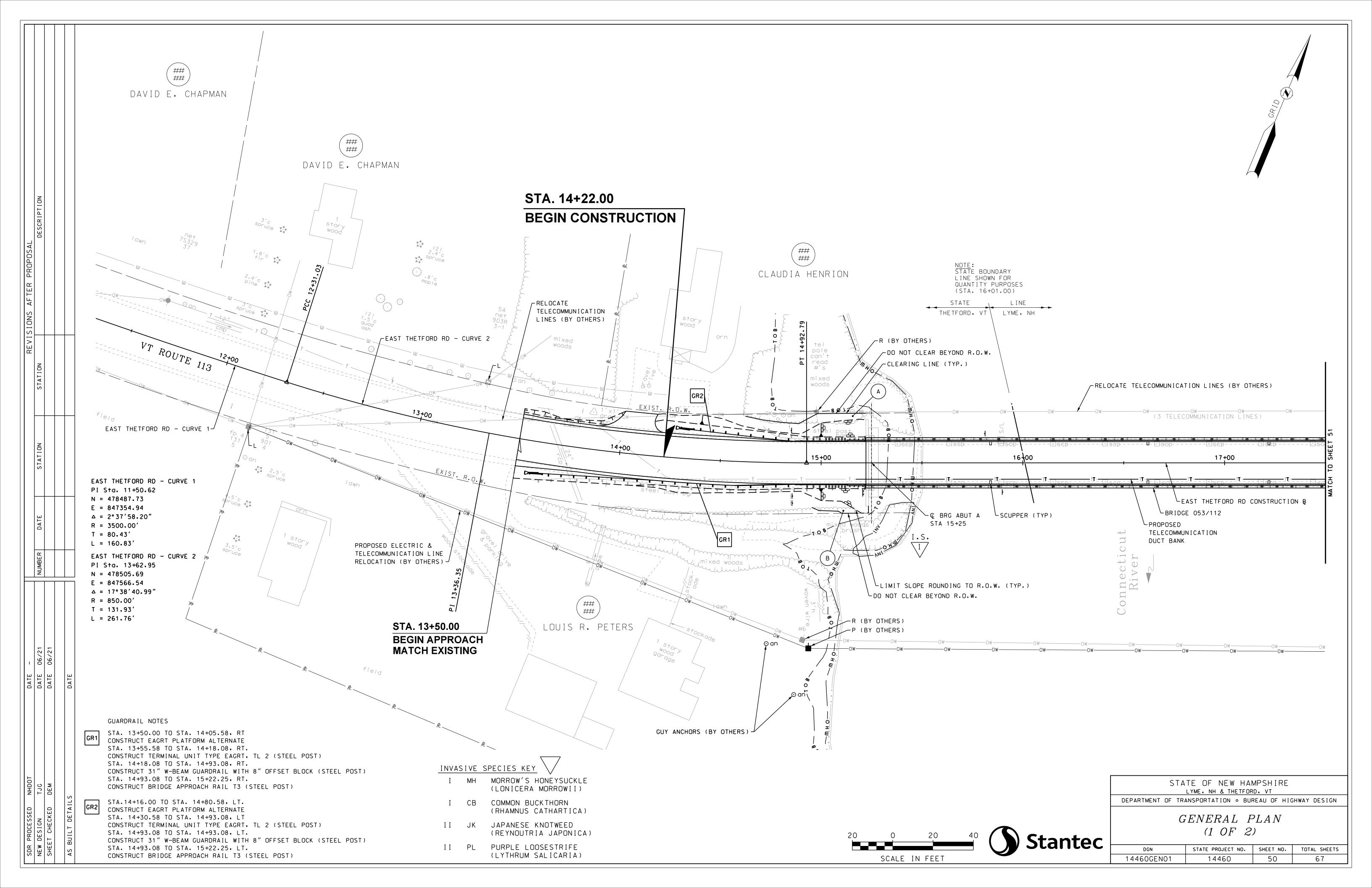
ASTM STANDARD

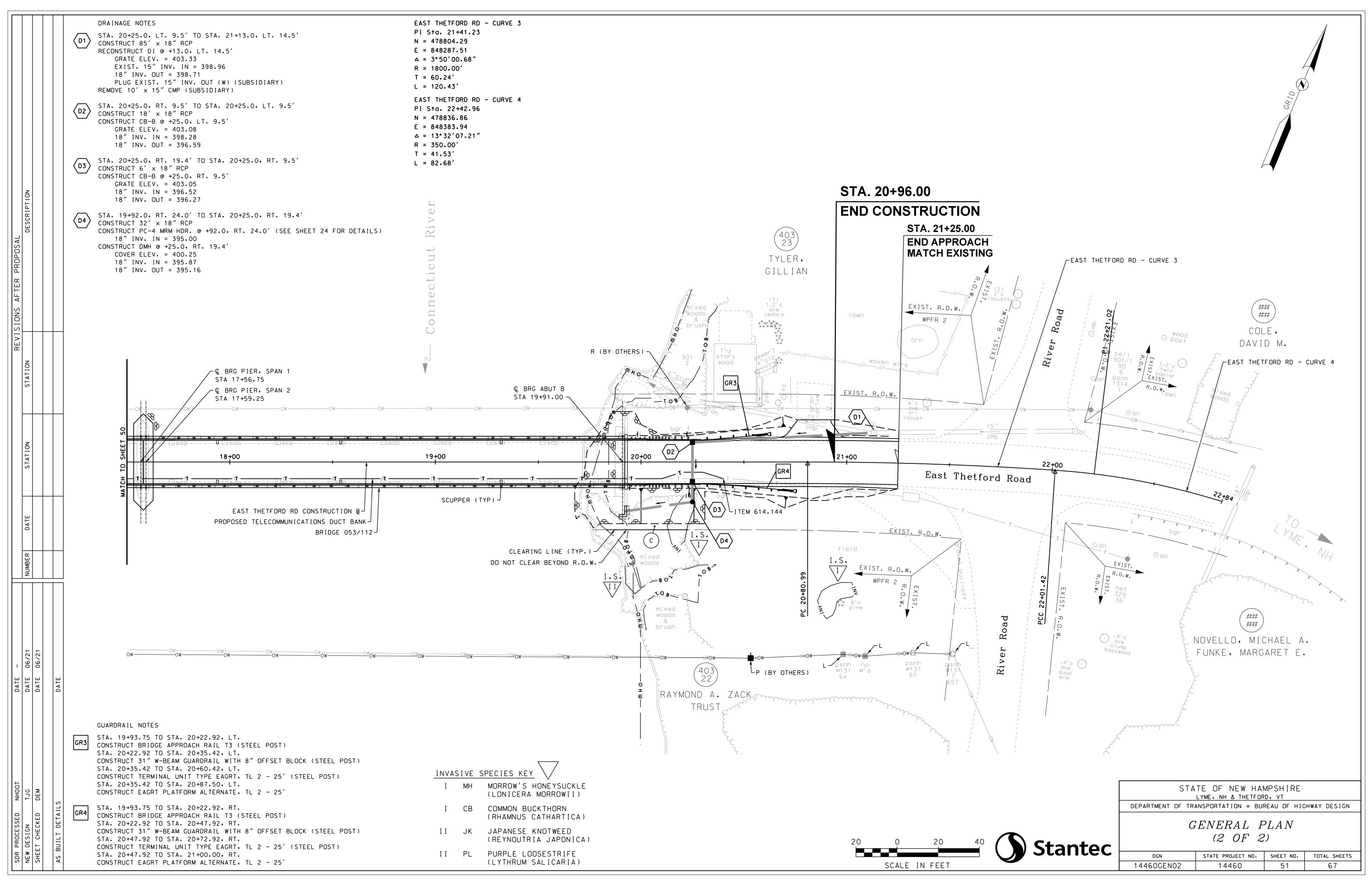
REINFORCING BARS

2. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING #18 SHALL CONFORM TO THE REQUIREMENTS

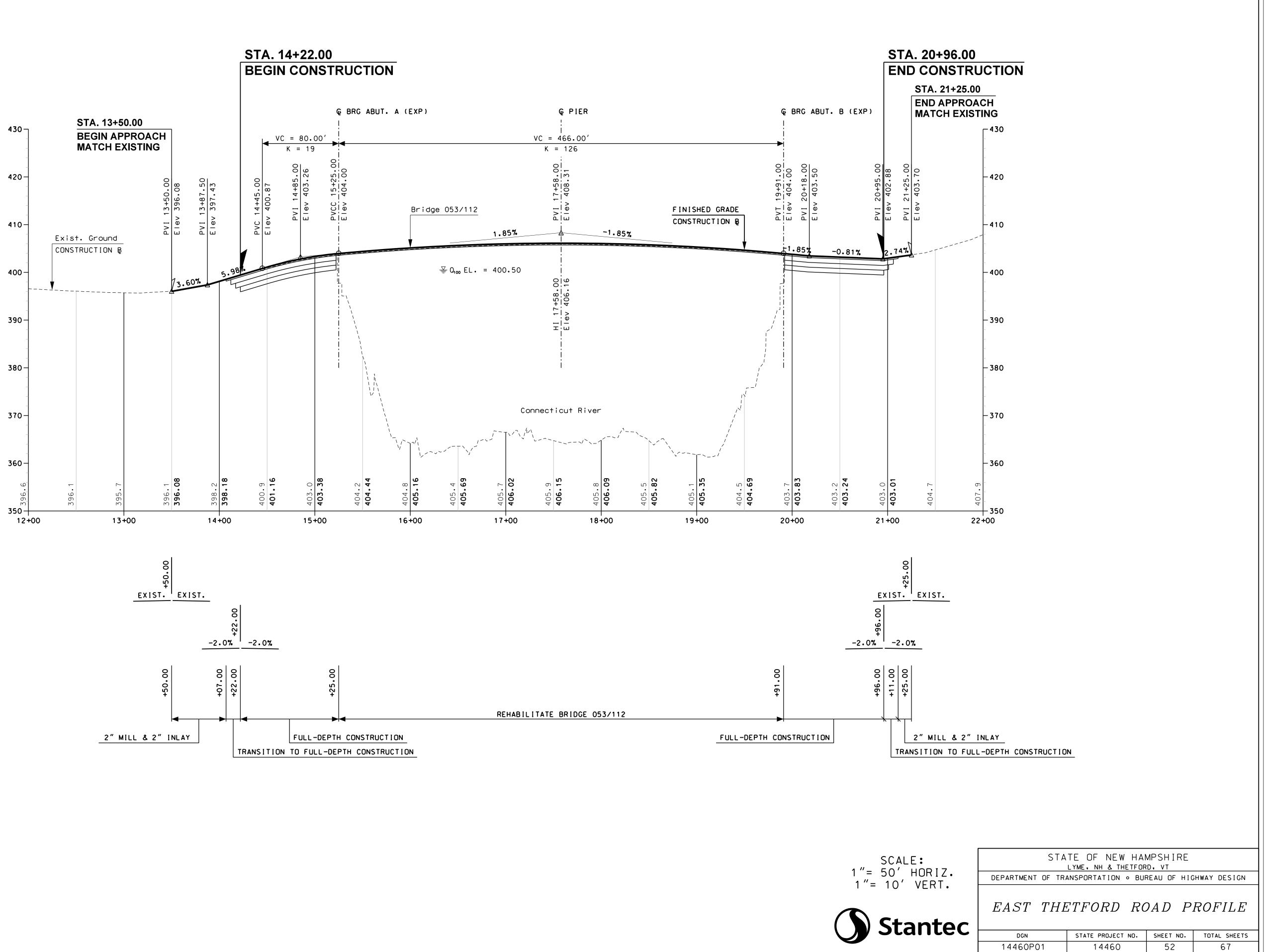
OF THE "SPECIFICATIONS FOR DEFORMED BILLET - STEEL BARS FOR CONCRETE

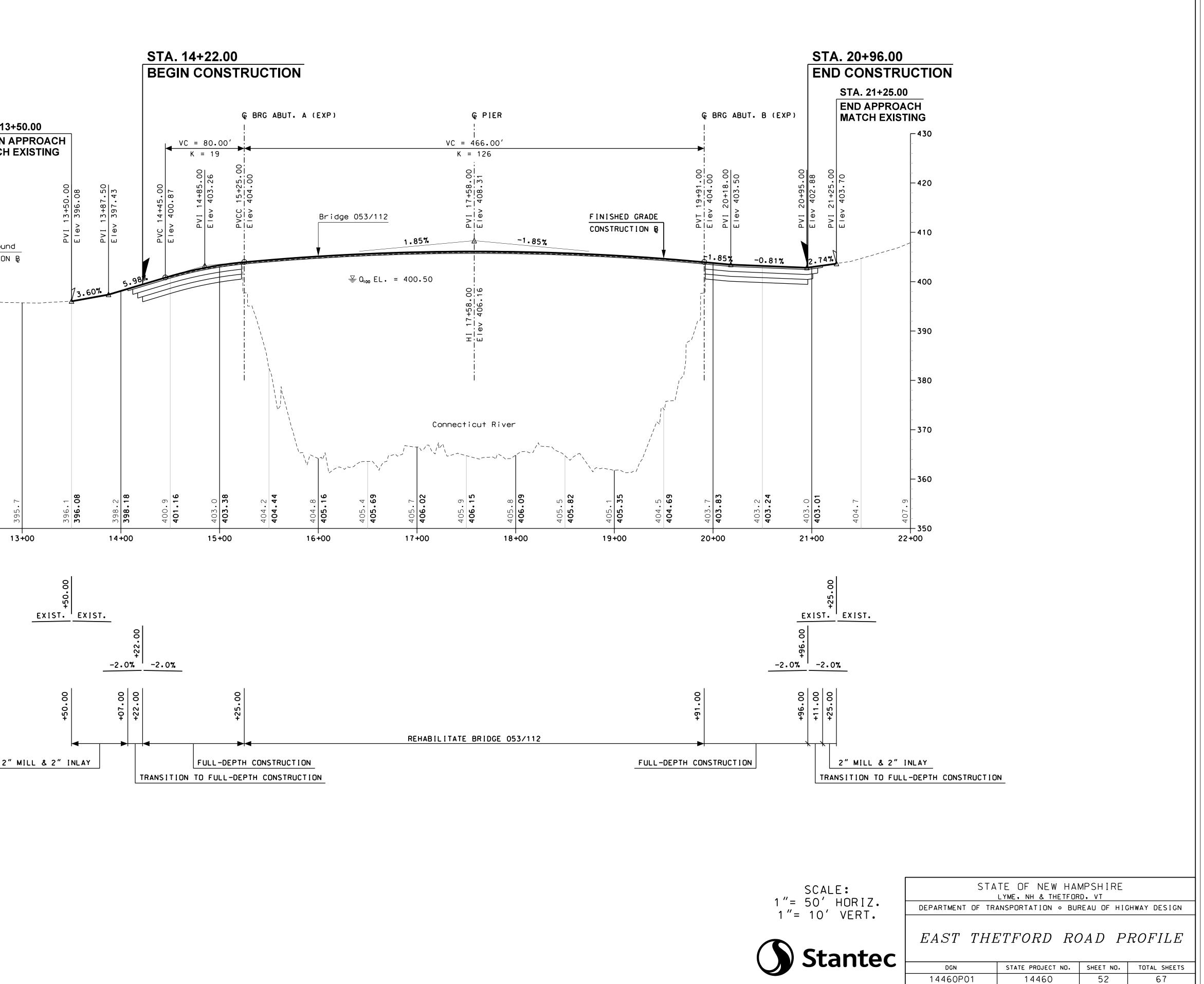
	Stantec
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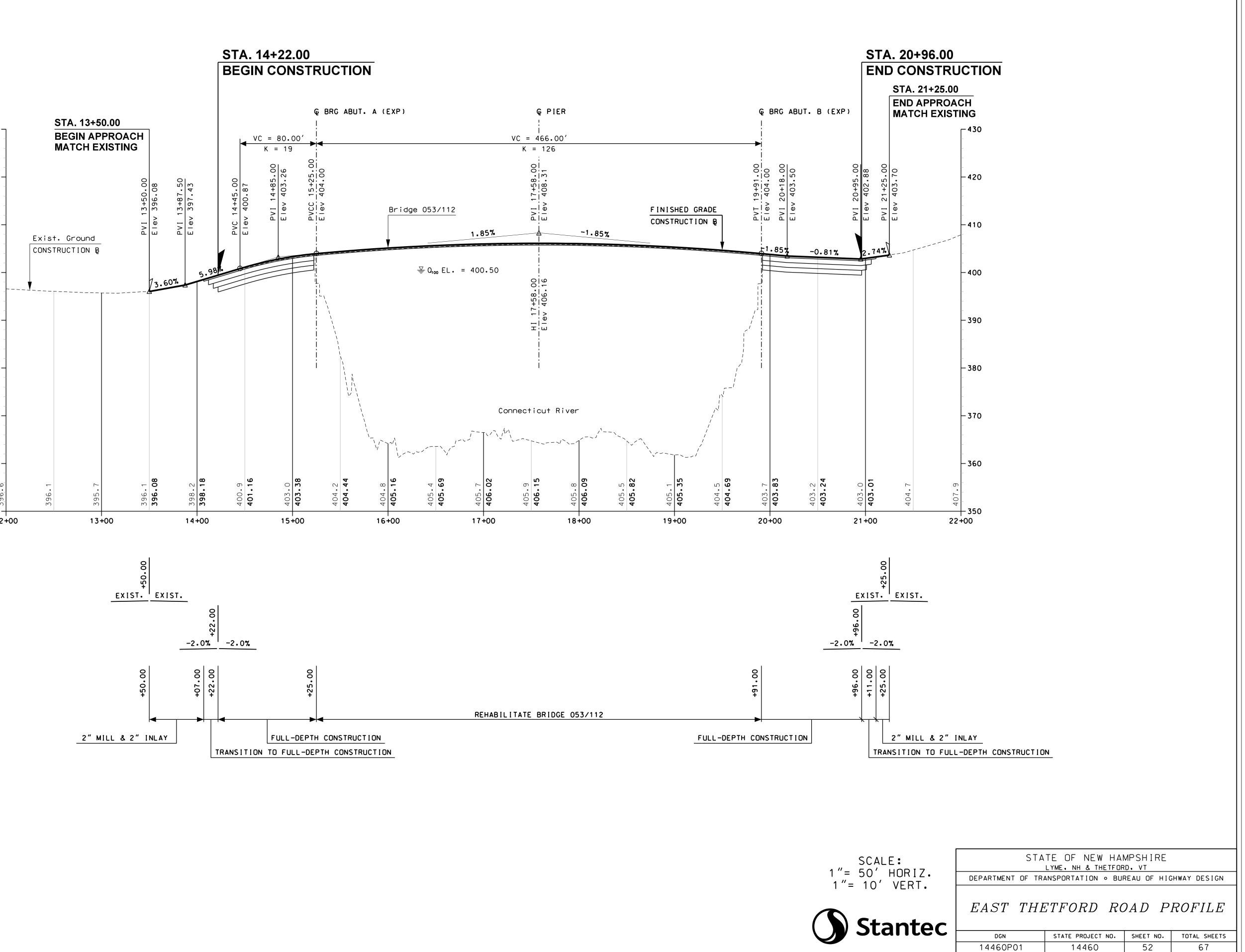


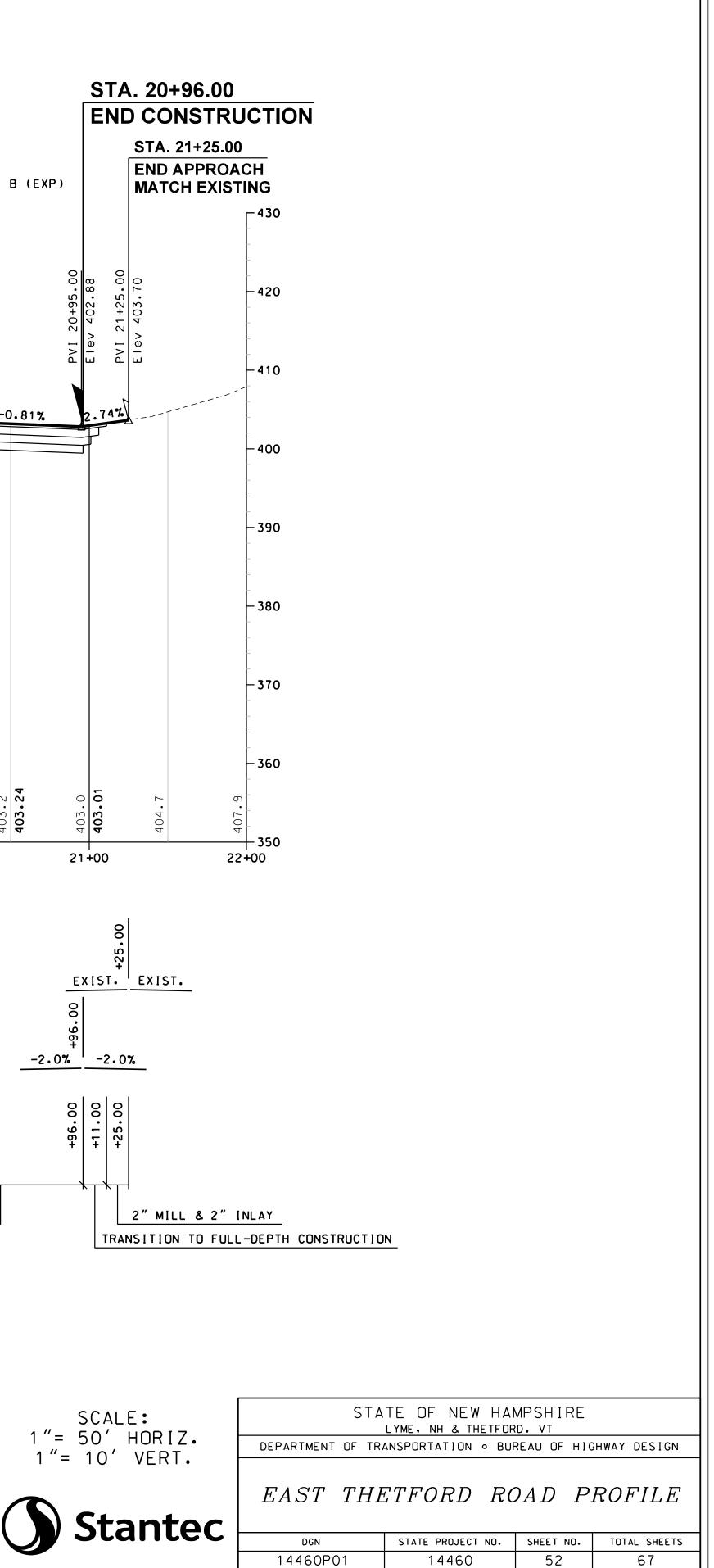


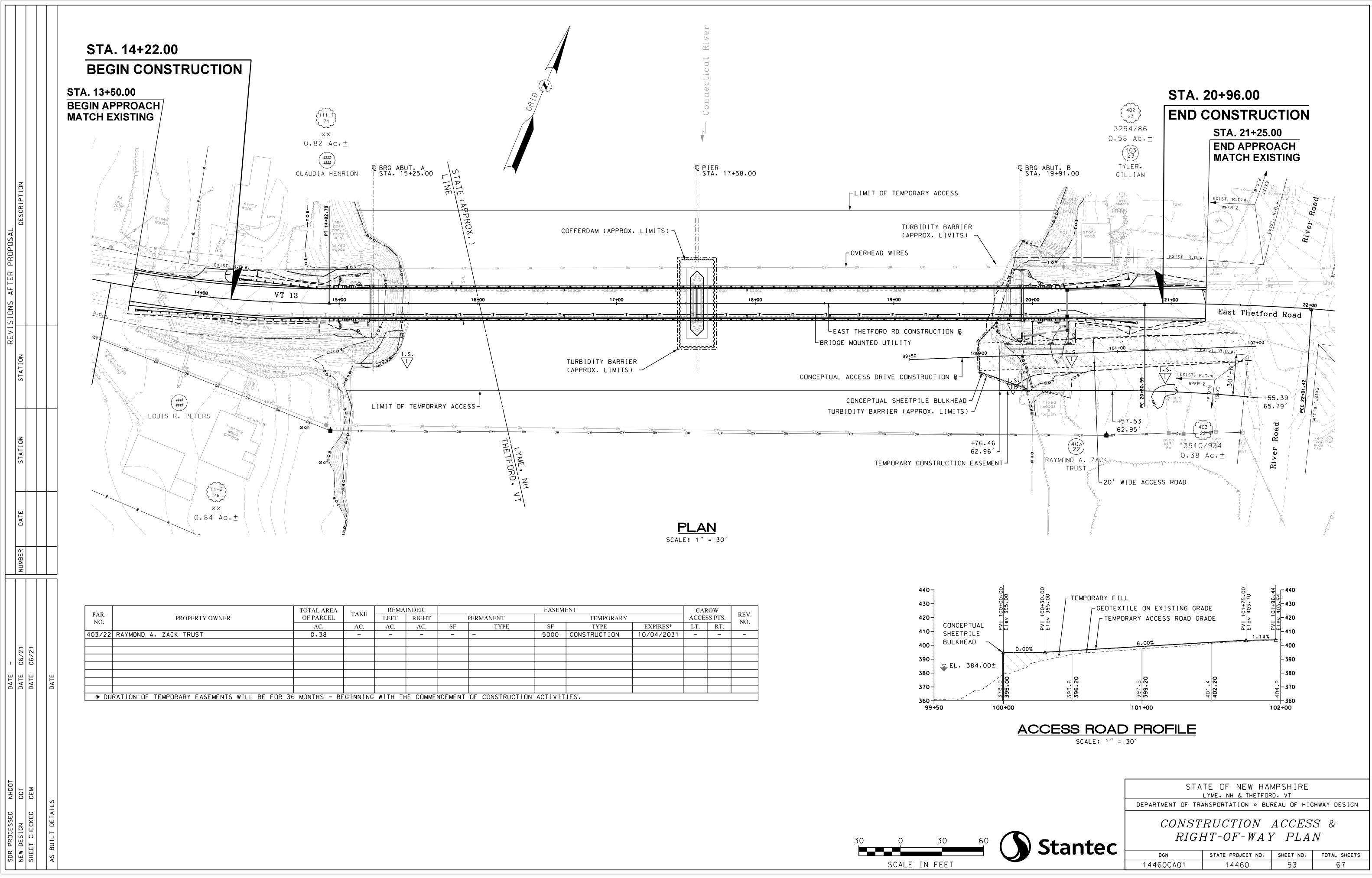
SDR PROCESSED NHDOT	DATE –				REVI	REVISIONS AFTER PROPOSAL
NEW DESIGN TJG	DATE 06/21	NUMBER	DATE	STATION	STATION	DESCRIPTION
SHEET CHECKED DEM	DATE 06/21					
AS BUILT DETAILS	DATE					



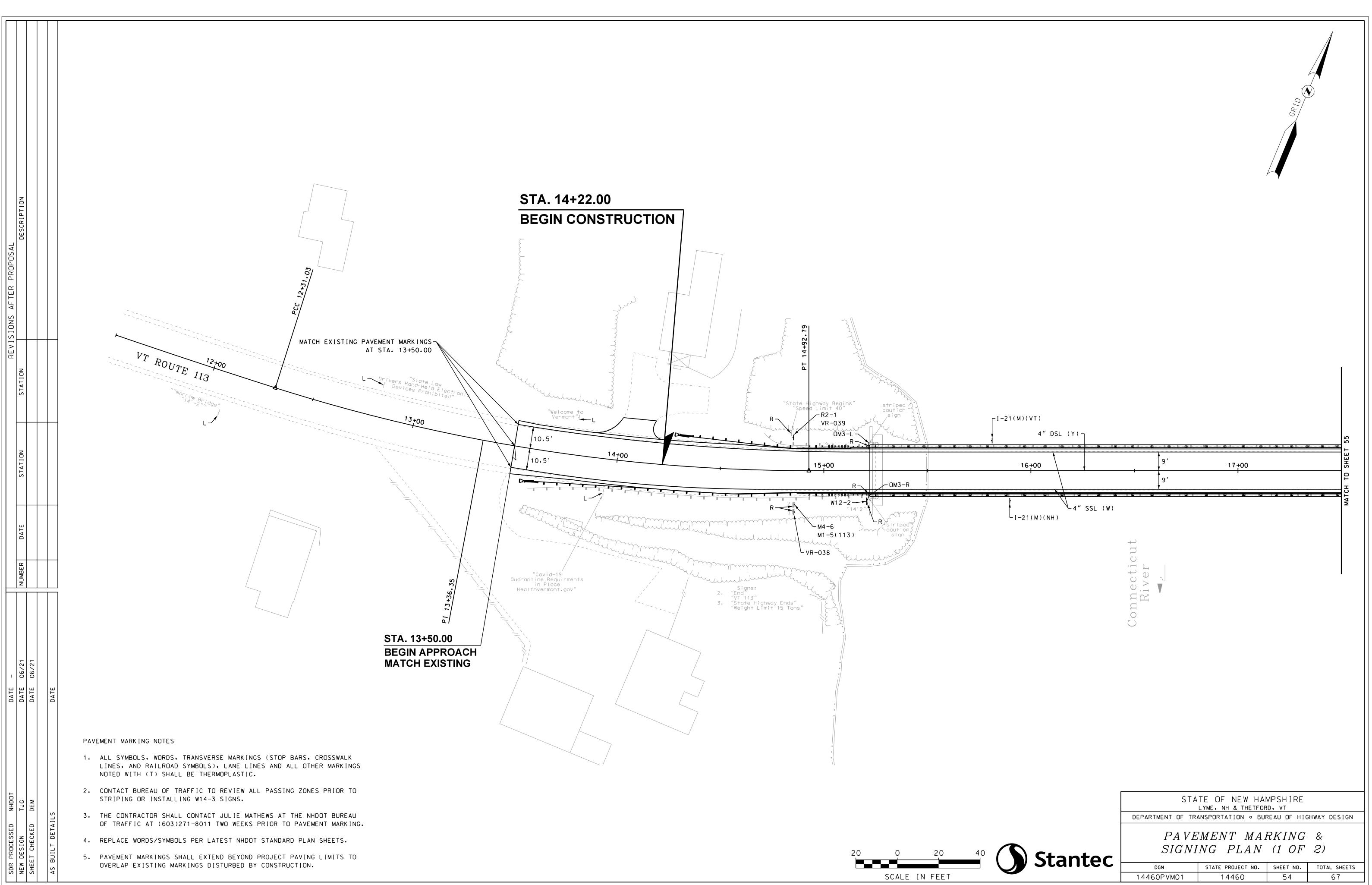


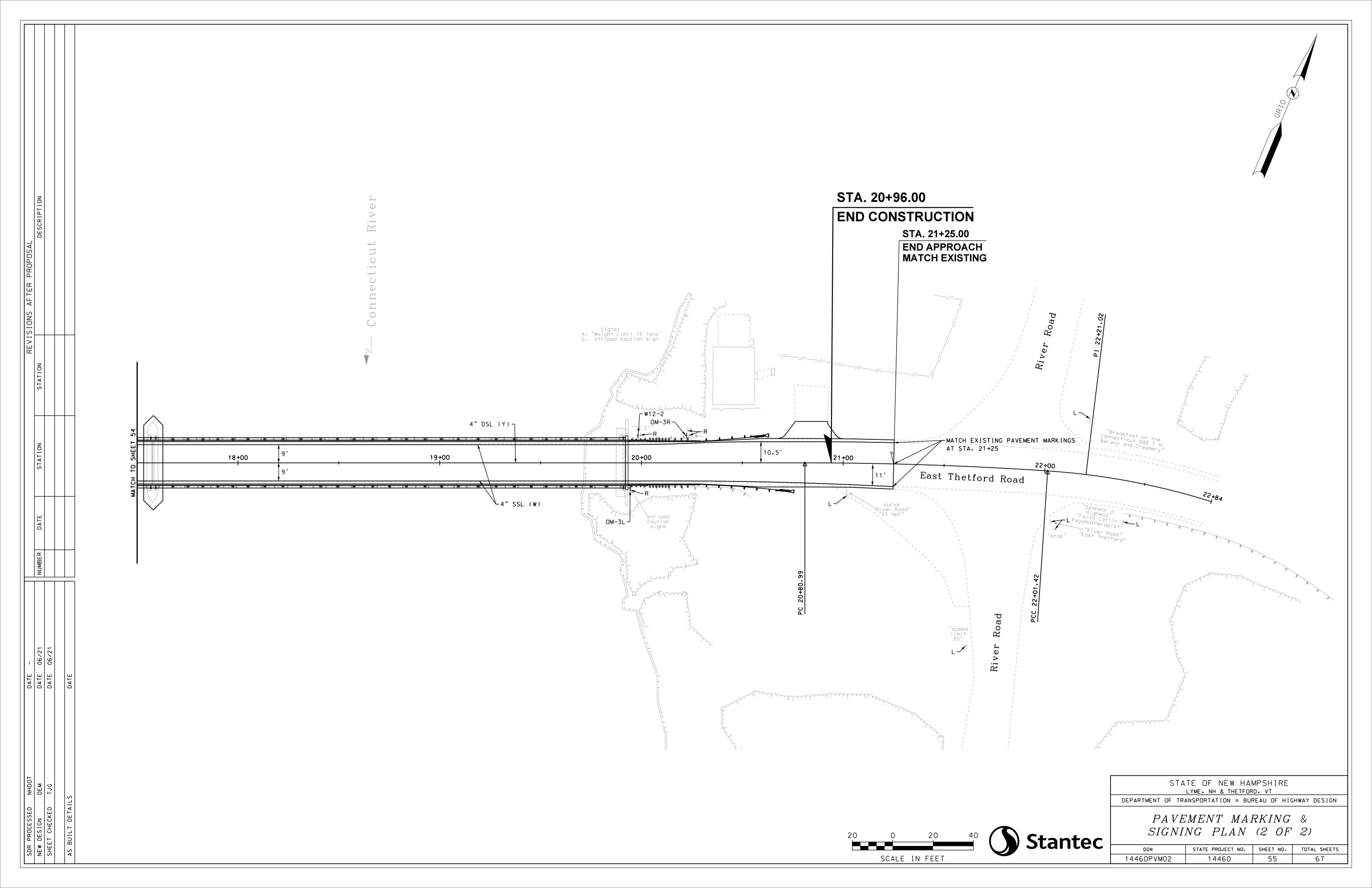






	EASEM	ENT		CAR	ROW	DEV
NT		TEMPORARY		ACCES	SS PTS.	REV. NO.
YPE	SF	TYPE	EXPIRES*	LT.	RT.	NO.
	5000	CONSTRUCTION	10/04/2031	-	-	-
STRUCTION	ACTIVIT	IES.				





		SIGN SIZE		TEXT	DIMENSIONS				POS	TS PER SIGN			SIG	I SIZE		TEXT DIMENSION	IS		POSTS PER SIGN	-
ITEM #		DTH HEIGHT nch) (inch)	TEXT		TER HEIGHT (inch) LC CAPS	SHIELD SIZE (inch) ARROW (inch)	NUMERAL # SIGN (inch) REQ'E		Para       BREAKAWAY       STEEL I-BEAM	CONCRETE BASE 4" ALUMINUM U-CHANNEL-GALV.	REMARKS	ITEM # IDE	ENT # WIDTH (inch)	HEIGHT (inch)	TEXT	LETTER HEIGHT (inch) UC LC CA	(inch) (inch) (inch)	L # SIGNS SIGN AR REQ'D (SQ. FT NOM AREA	AEA BREAKAWAY BREAKAWAY STEEL I-BEAM CONCRETE BASE CONCRETE BASE 4" ALUMINUM 4" ALUMINUM U-CHANNEL-GALV.	REMARKS
615.0501	I – 2 1 ( M ) ( NH )	18 24	STATE LINE LYME NEW HAMPSHIRE		4D 4D 4D		1	8.00 8.	00		GREEN / WHITE (SEE NOTE 8)									
615.0501	I-21 (M) (VT)	18 24	STATE LINE THETFORD VERMONT		4D 4D 4D		1	8.00 8.	00		GREEN / WHITE (SEE NOTE 8)									
615.0301	VM1-5	30 24	VERMONT 113		4 D		1 12D	5.00 5.	00	1	GREEN / WHITE									
615.0601	M4-6	24 12	END		6D		1	2.00 2.	00		GREEN / WHITE MOUNT ABOVE M1-5(113)									
615.0301	OM3-L	12 36					2	3.00 6.	00	1	BLACK / YELLOW									
615.0301	OM3-R	12 36					2	3.00 6.	00	1	BLACK / YELLOW									
615.0301	R2-1 (40)	24 30	SPEED LIMIT 40		4 E 4 E		1 1 OE	5.00 5.	00	1	BLACK / WHITE									
615.0301	VR-038	24 18	STATE HIGHWAY ENDS		XX XX XX		1	3.00 3.	00		BLACK / WHITE									
615.0301	VR-039	24 18	STATE HIGHWAY BEGINS		XX XX XX		1	3.00 3.	00		BLACK / WHITE	2. NC SE 3. RE PE	OTE NEW REFLE CTION 718 PUBI FER TO THE 20 <sup>7</sup> RMANENT SIGN	6 STANDARD SPECI CTIVITY REQUIREME ISHED BY THE NHDO 0 STANDARD PLANS ING STANDARDS ANI	NTS IN THE 2016 STANDA DT. FOR ROAD CONSTRUCT D NHDOT SPECIFIC SIGNS	D BRIDGE CONSTRUCTIC RD SPECIFICATIONS FOR ON AS PUBLISHED BY TH 3.	ON PUBLISHED BY THE NHDOT. R ROAD AND BRIDGE CONSTRUCTION IE NHDOT FOR EXACT DETAILS OF			
615.0301	W12-2	36 36			12D		2	9.00 9.	00		BLACK / YELLOW	DE 5. TH 6. RE INS 7. DIG 8. MC (M	ETAILS OR BORD IE ALUMINUM OF EFER TO 'ROUTE STALLATIONS. GITALLY PRINTE DUNT SIGN TO B	ERS, ETC. R U- CHANNEL POST MARKER POST ASSE D SIGNS SHALL NOT RIDGE ITEM 615.3069	SHALL BE FLUSH WITH TH EMBLY DETAIL' LOCATED BE PERMITTED.	HE TOP OF THE SIGN ON A	THED BY THE USDOT-FHWA FOR EXACT ALL SINGLE POST ASSEMBLIES. SIDE BY SIDE ROUTE MARKER SIGN	ntec	STATE OF NEW HAM PARTMENT OF TRANSPORTATION • SIGN TEXT LA	BUREAU OF TRAFFIC



Ī	DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
	14460SSM01	14460	56	67

SIGN SIZ	IZE		TEXT DIMENSIONS					POSTS PER SIGN	N			SI	GN SIZE		TEXT DIMENSIONS						POSTS PER SIGN		
ITEM # IDENT # WIDTH HE (inch) (i	HEIGHT (inch)	TEXT	UC LC CAPS	SHIELD SIZE (inch) (inch) (inch)	AL # S RE	SIGNS SIC EQ'D (S NOM AREA		BREAKAWAY BREAKAWAY STEEL I-BEAM CONCRETE BASE 4" ALUMINUM	U-CHANNEL-GALV.	REMARKS	ITEM # IDI	ENT # WIDT (inch)	H HEIGHT (inch)	TEXT	LETTER HEIGHT (inch) UC LC CAPS	SHIELD SIZE (inch)	ARROW (inch)	NUMERAL (inch)	# SIGNS REQ'D	SIGN AREA (SQ. FT.) NOM TOTAL AREA AREA	BREAKAWAY STEEL I-BEAM CONCRETE BASE 4" ALUMINUM	2	REMARKS
619.1	24 36	VERMONT 113	XX XX	XX XX			110.00 5 168.75		1	GREEN / WHITE	619.1 R1 (MC	1-3b DD-1) 60	30	EAST VT ROUTE 113 Bridge closed 2 miles Ahead	6C 5C 4C				3	12.50 37.50		2 E	BLACK / WHITE
619.1	12 18	EAST	6C 8C				42.00 67.50			GREEN ∕ WHITE MOUNT ABOVE M1-5	619.1 R1 (MC	1-3b DD-2) 60	30	EAST VT ROUTE 113 Bridge closed 5 miles Ahead	6C 5C 4C				5	12.50 62.50		2 E	BLACK / WHITE
M3-4(S) 24 619.1 M3-4(I) 36	12 18	WEST	6C 8C				44.00			GREEN ∕ WHITE MOUNT ABOVE W16-8P	619.1 R1 (MC	1-3b 3D-3) 60	30	EAST VT ROUTE 113 Bridge closed 10 miles Ahead	6C 5C 4C				3	12.50 37.50		2 E	BLACK / WHITE
619.1	12 15	DETOUR	6B 8B				86.00			BLACK / ORANGE MOUNT ABOVE M3-2 OR M3-4	619.1 R1 (MC	1-3b DD-4) 60	30	EAST VT ROUTE 113 Bridge closed 12 miles Ahead	6C 5C 4C				2	12.50 25.00		2 E	BLACK / WHITE
619.1 M4-8a 24	18	END DETOUR	4D 4D			2 3.00	6.00			BLACK / ORANGE	R1 (MC	1-3b DD-5) 60	30	E. Thetford Rd WEST Bridge Closed 2 Miles Ahead	6C 5C 4C				3	12.50 37.50		2 E	BLACK / WHITE
619.1 M6-1(L) 21	15					9 2.19	19.69			BLACK ∕ ORANGE MOUNT ABOVE M1-5 OR W16-8P	R1 ( MC	1-3b DD-6) 60	30	E. Thetford Rd WEST Bridge Closed 5 Miles Ahead	6C 5C 4C				2	12.50 25.00		2 E	BLACK / WHITE
619.1 M6-1(R) 21	15					12 2.19	26.25			BLACK ∕ ORANGE MOUNT ABOVE M1-5 OR W16-8P	R1 (MC	1-3b 3D-7) 60	30	E. Thetford Rd WEST Bridge Closed 10 Miles Ahead	6C 5C 4C				3	12.50 37.50		2 E	BLACK / WHITE
619.1 M6-2(R) 21	15					4 2.19	8.75			BLACK ∕ ORANGE MOUNT ABOVE M1-5 OR W16-8P	R1 ( MC	1-3b DD-8) 60	30	E. Thetford Rd WEST Bridge Closed 12 Miles Ahead	6C 5C 4C				1	12.50 12.50		2 E	BLACK / WHITE
619.1	15 21						48.13 87.50			BLACK / ORANGE MOUNT ABOVE M1-5 OR W16-8P	2. NC SE 3. RE	OTE NEW REFI ECTION 718 PL	ECTIVITY RE BLISHED BY <sup>-</sup> 2010 STANDAR	<b>GENERAL NO</b> RD SPECIFICATIONS FOR ROAD AND QUIREMENTS IN THE 2016 STANDARD THE NHDOT. RD PLANS FOR ROAD CONSTRUCTION ARDS AND NHDOT SPECIFIC SIGNS.	BRIDGE CONSTRUCTION PL	AD AND BR	IDGE CONST	RUCTION					
619.1 R11-2 48	30	ROAD CLOSED	8D 8D			3 10.00	30.00			BLACK / WHITE MOUNT ON TYPE 3 BARRICADE	5. TH 5. TH 6. RE IN 7. DH 8. M( (M	ETAILS OR BOI HE ALUMINUM EFER TO 'ROU' STALLATIONS GITALLY PRIN OUNT SIGN TC	RDERS, ETC. OR U- CHANN TE MARKER P TED SIGNS SH BRIDGE ITEN	ON OF THE STANDARD HIGHWAY SIG EL POST SHALL BE FLUSH WITH THE OST ASSEMBLY DETAIL' LOCATED IN IALL NOT BE PERMITTED. I 615.30691, BRIDGE MOUNTED TRAF E-MOUNTED SIGN SUPPORT DETAIL	TOP OF THE SIGN ON ALL S THE PROPOSAL FOR SIDE FIC SIGN STRUCTURE	SINGLE PO	ST ASSEMBL	IES.	tec	DEPARTMEN	STATE OF NEW H IT OF TRANSPORTATION CARY SIGN	• BUREA	AU OF TRAFFIC

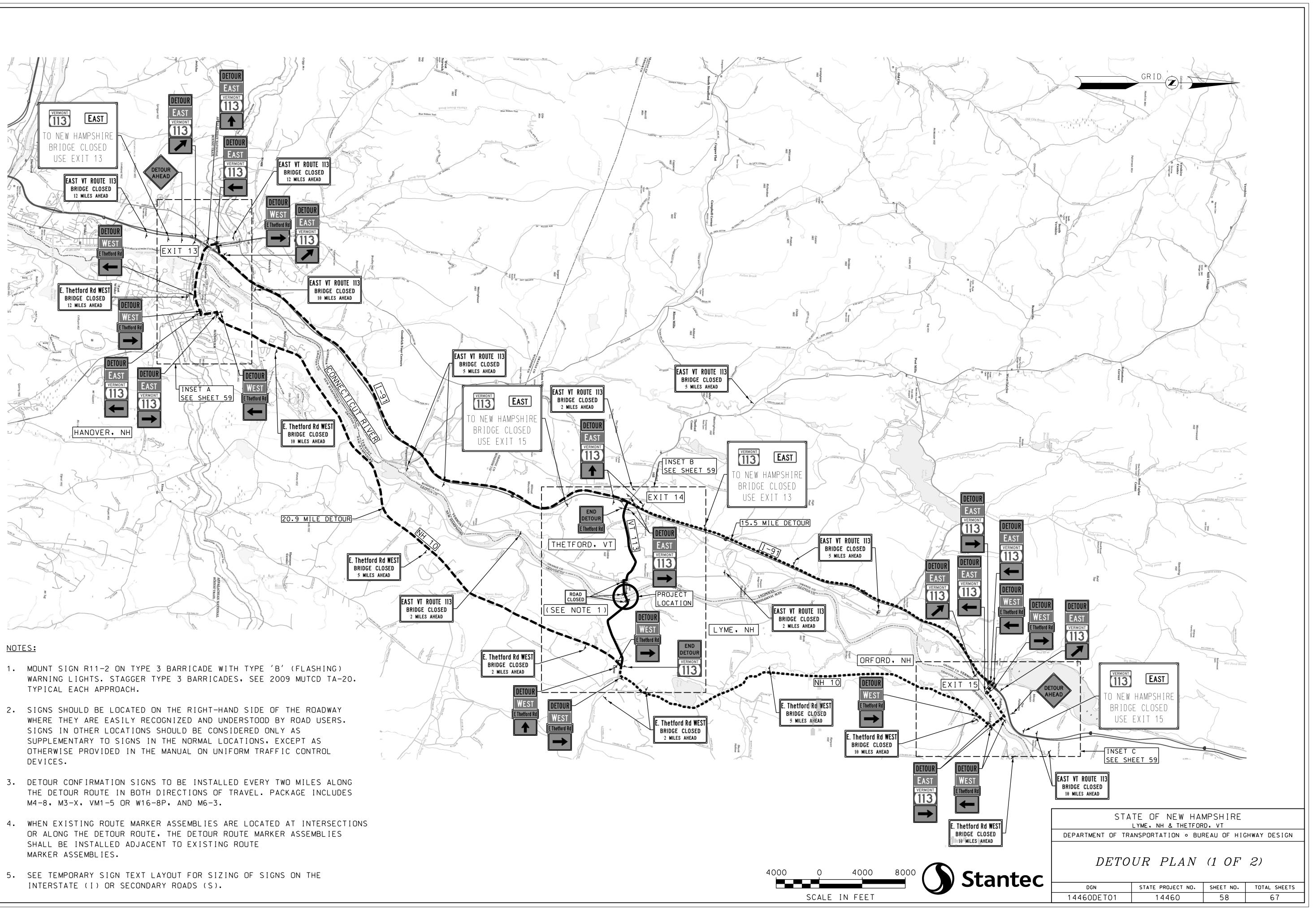


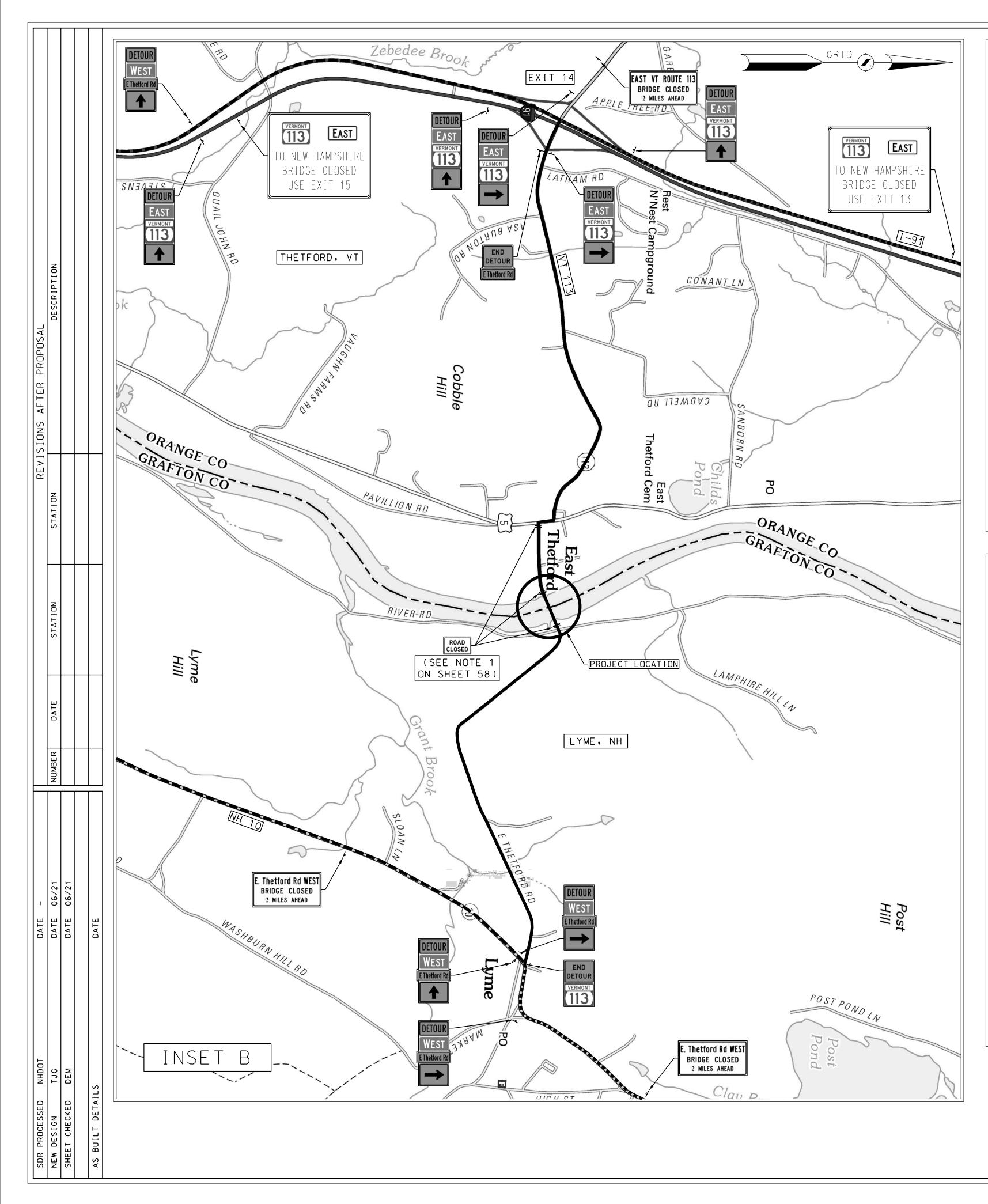
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14460SSM02	14460	57	67

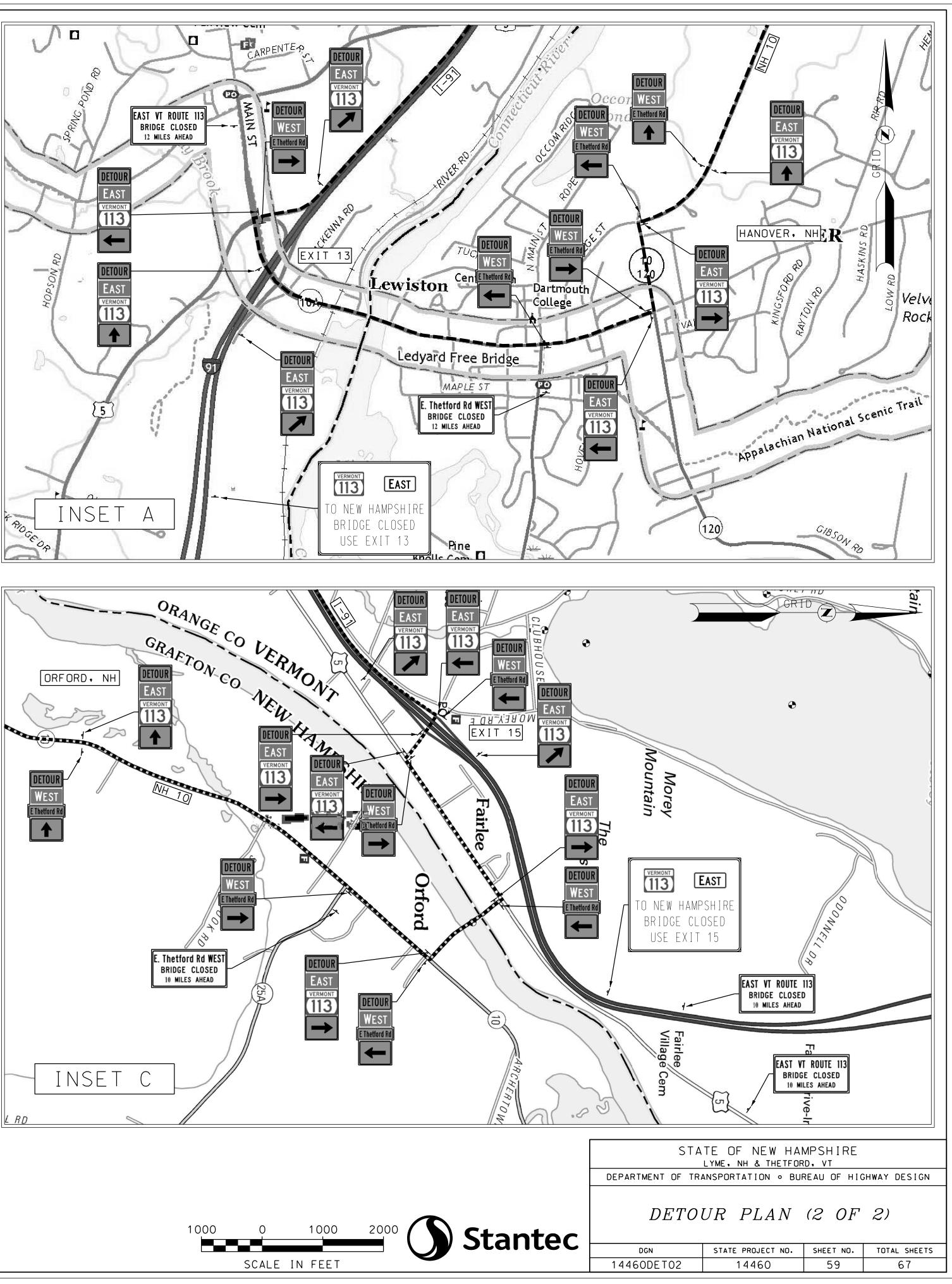
	SIG	N SIZE		TEXT DIMENSI	ONS			I	POSTS PER SIGN		SIGN SIZE	TEXT DIM	ENSIONS	POS	TS PER SIGN
ITEM # IDENT #	WIDTH (inch)	HEIGHT (inch)	TEXT	LETTER HEIG (inch) UC LC	(incir)	ROW NUMERAL # SIGNS nch) (inch) REQ'D	S SIGN AREA (SQ. FT.) NOM TOTAL AREA AREA	BREAKAWA	STEEL I-BEAM CONCRETE BASE 4" ALUMINUM U-CHANNEL-GALV.		ITEM # IDENT # WIDTH (inch) (inch)	TEXT LETTER LETTER (inc	h) SIZE (inch) (inch) REQ'D	SIGN AREA (SQ. FT.) NOM TOTAL AREA AREA NOM TOTAL	CONCRETE BASE 4" ALUMINUM 4" ALUMINUM U-CHANNEL-GALV.
619.1 W16-8F	36	12	E Thetford Rd		6D	32	3.00 96.00	)	1	BLACK ∕ ORANGE					
619.1 W20-2	48	48	DETOUR AHEAD		8 D 8 D	2	16.00 32.00	)	2	BLACK / ORANGE					
619.1 CS-01	144	120	TO NEW HAMPSHIRE BRIDGE CLOSED USE EXIT 13		7D 7D 7D 7D	2	12.00 240.00	0	2	BLACK / WHITE / ORANGE					
619.1 CS-02	144	120	TO NEW HAMPSHIRE BRIDGE CLOSED USE EXIT 15		7D 7D 7D 7D	2	120.00 240.00	0	2	BLACK / WHITE / ORANGE					
											<ol> <li>NOTE NEW REFLECTIVITY REF SECTION 718 PUBLISHED BY 1</li> <li>REFER TO THE 2010 STANDAR</li> </ol>	<b>GENERAL NOTES</b> RD SPECIFICATIONS FOR ROAD AND BRIDGE CONST QUIREMENTS IN THE 2016 STANDARD SPECIFICATIO THE NHDOT. RD PLANS FOR ROAD CONSTRUCTION AS PUBLISHE ARDS AND NHDOT SPECIFIC SIGNS.	NS FOR ROAD AND BRIDGE CONSTRUCTION	· · · · · · ·	
											<ol> <li>REFER TO THE LATEST EDITION</li> <li>DETAILS OR BORDERS, ETC.</li> <li>THE ALUMINUM OR U- CHANN</li> </ol>	ON OF THE STANDARD HIGHWAY SIGNS MANUAL AS EL POST SHALL BE FLUSH WITH THE TOP OF THE SI OST ASSEMBLY DETAIL' LOCATED IN THE PROPOSA	GN ON ALL SINGLE POST ASSEMBLIES.		OF NEW HAMPSHIRE
											7. DIGITALLY PRINTED SIGNS SH	HALL NOT BE PERMITTED. 1/ 615.30691, BRIDGE MOUNTED TRAFFIC SIGN STRUG E-MOUNTED SIGN SUPPORT DETAIL SHEETS FOR S	GN Stantec	DGN STA	SIGN TEXT LAYOUT TE PROJECT NO. SHEET NO. TOTAL SHEETS 14460 57A 67

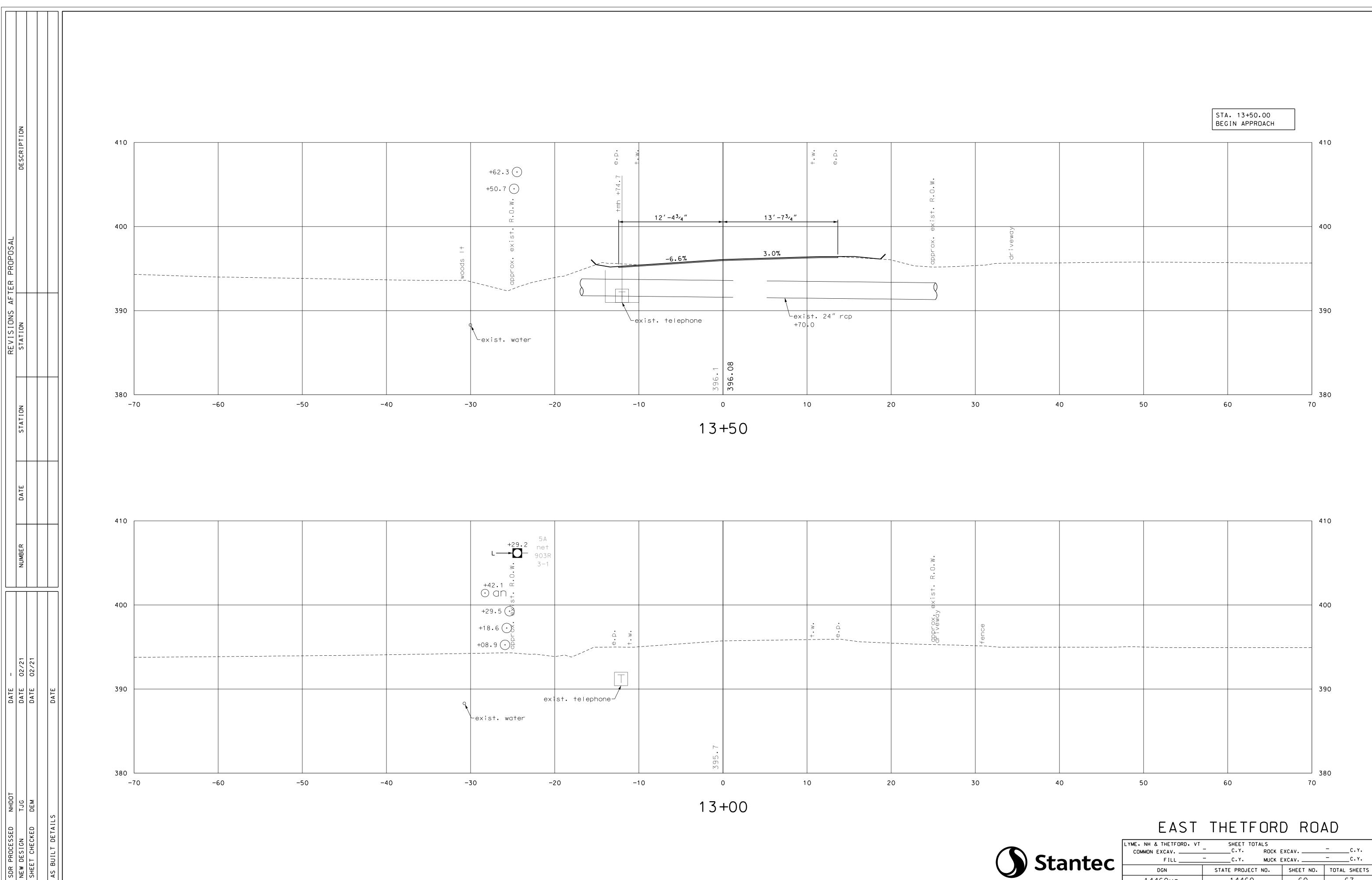


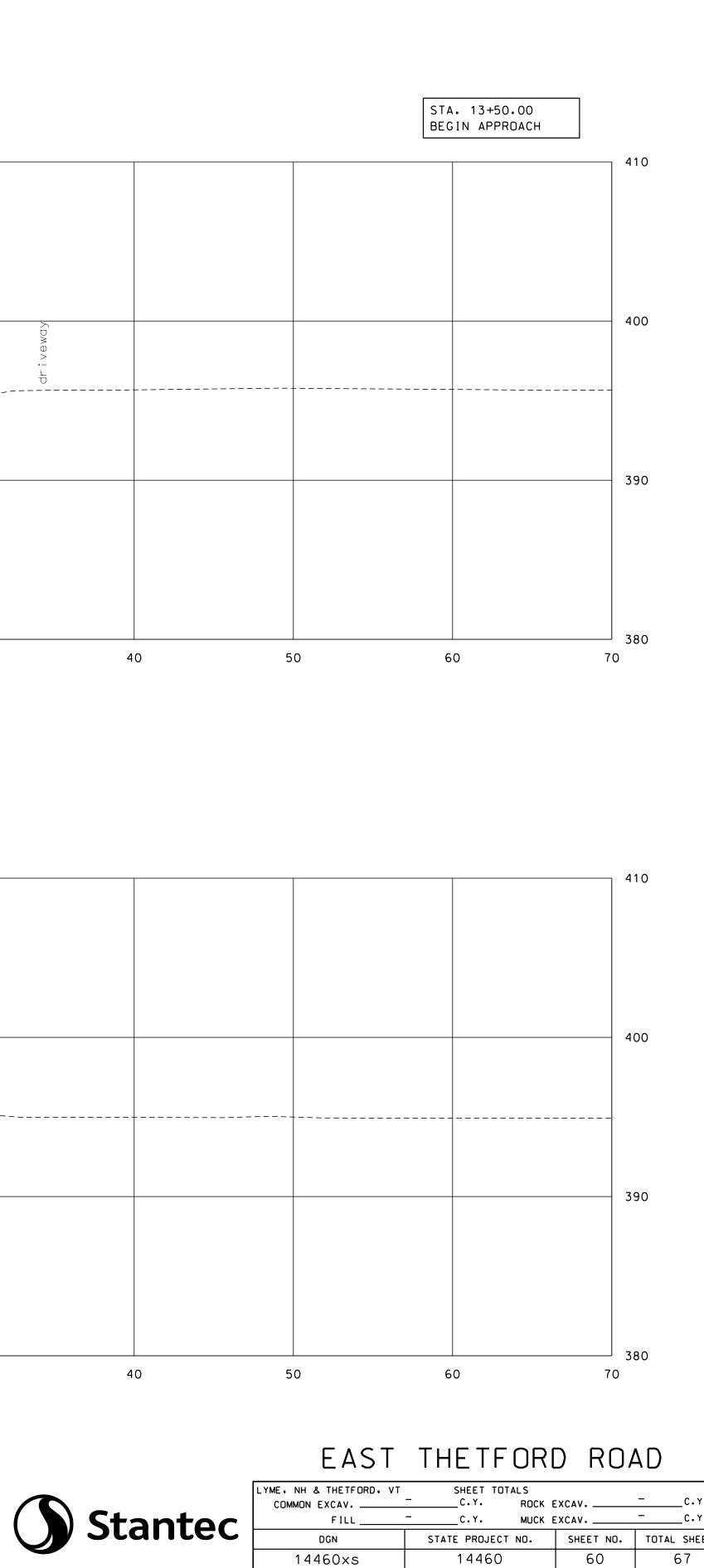
DESCRIPT DATE 2 -06/21 06/21 DATE DATE DATE DATE NHDO. TJG DEM SDR PROCESSED NEW DESIGN SHEET CHECKED

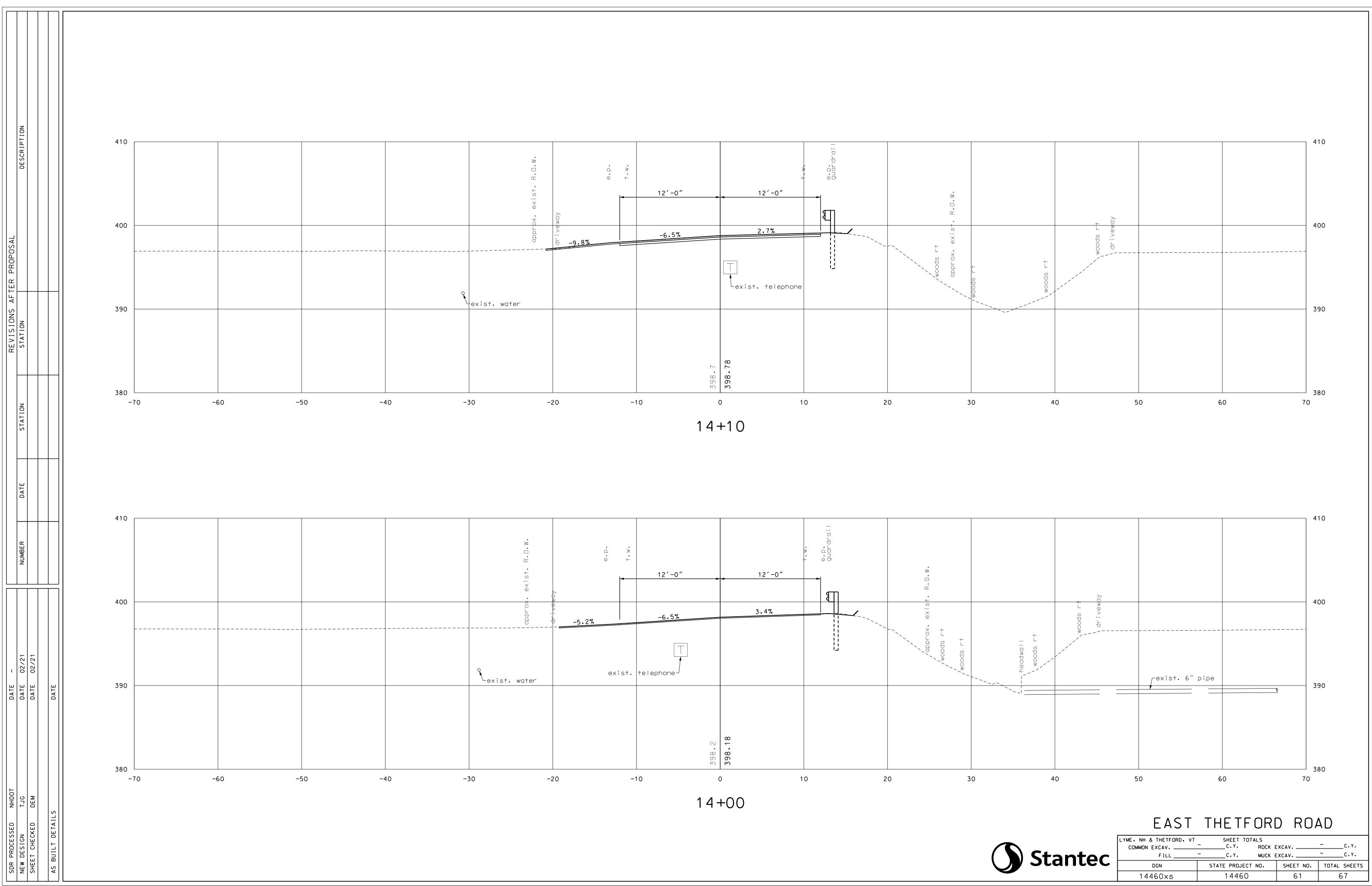


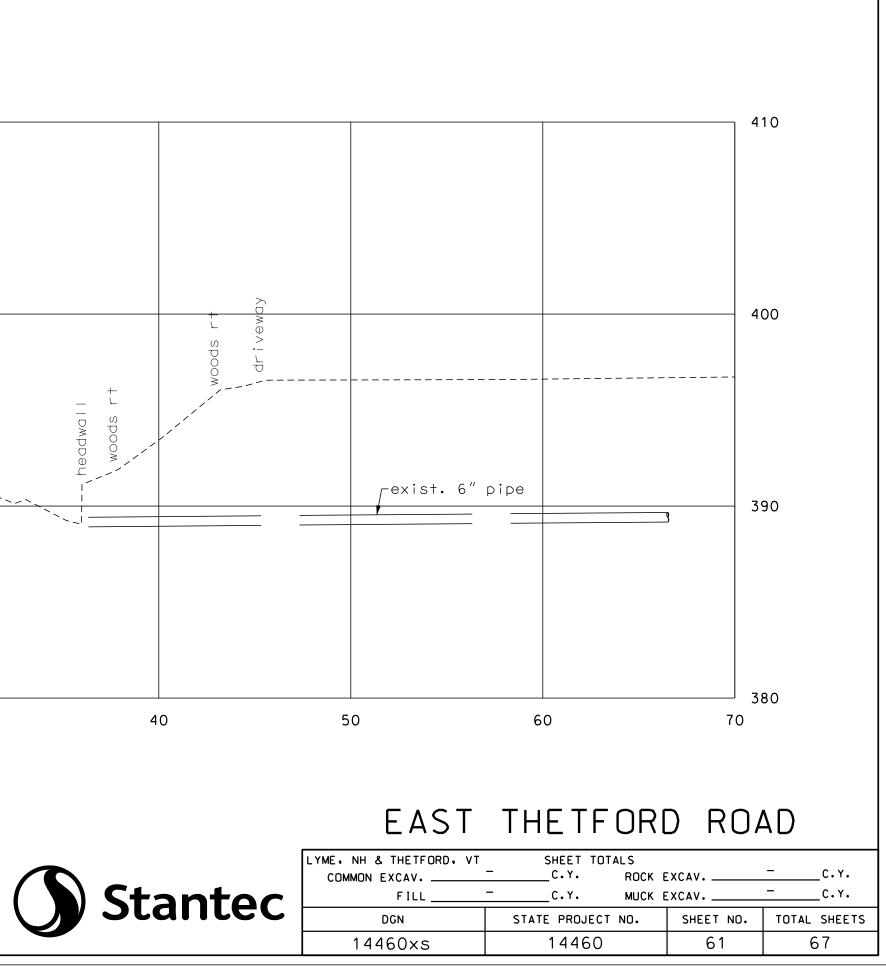


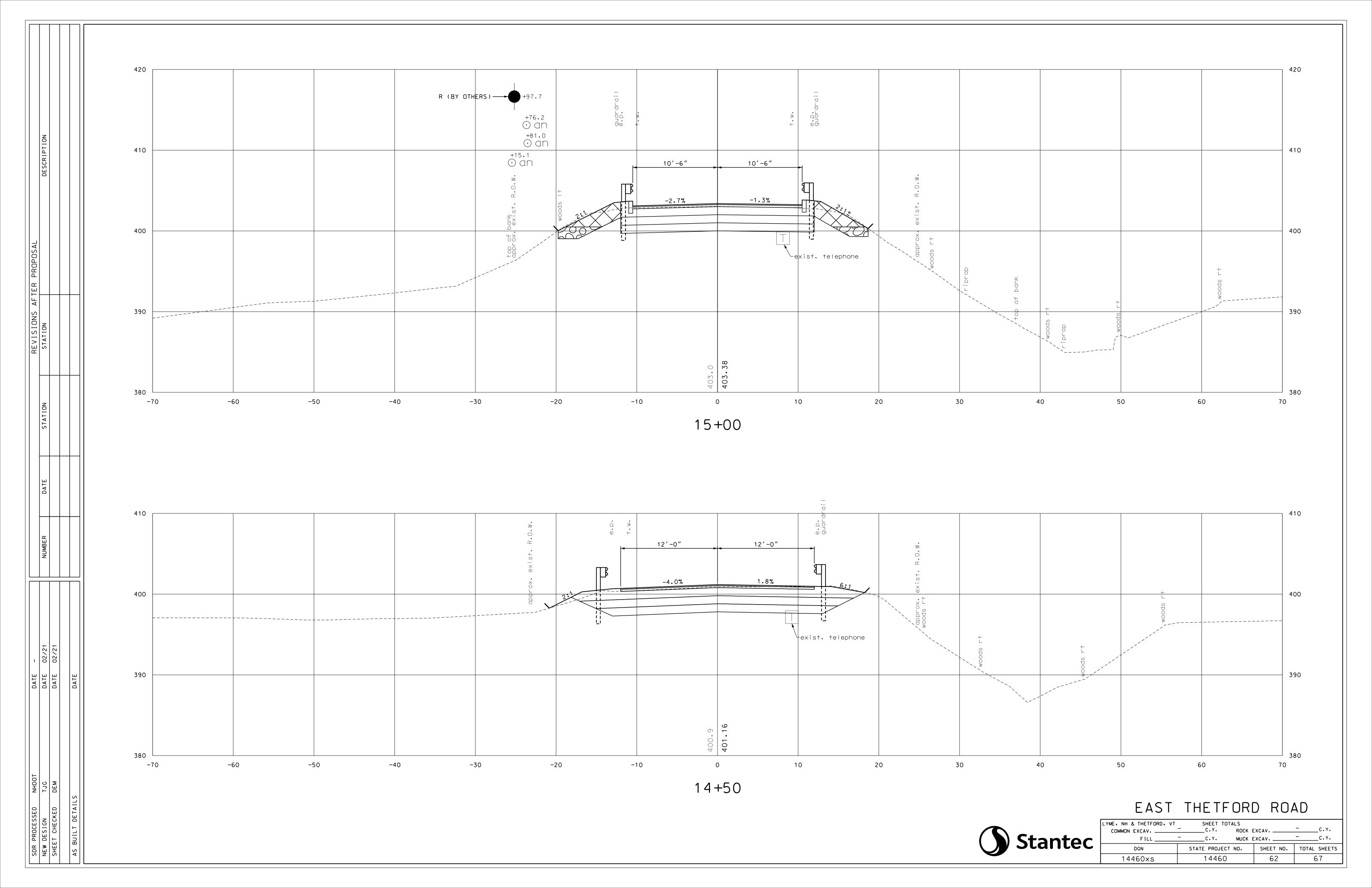






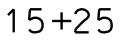


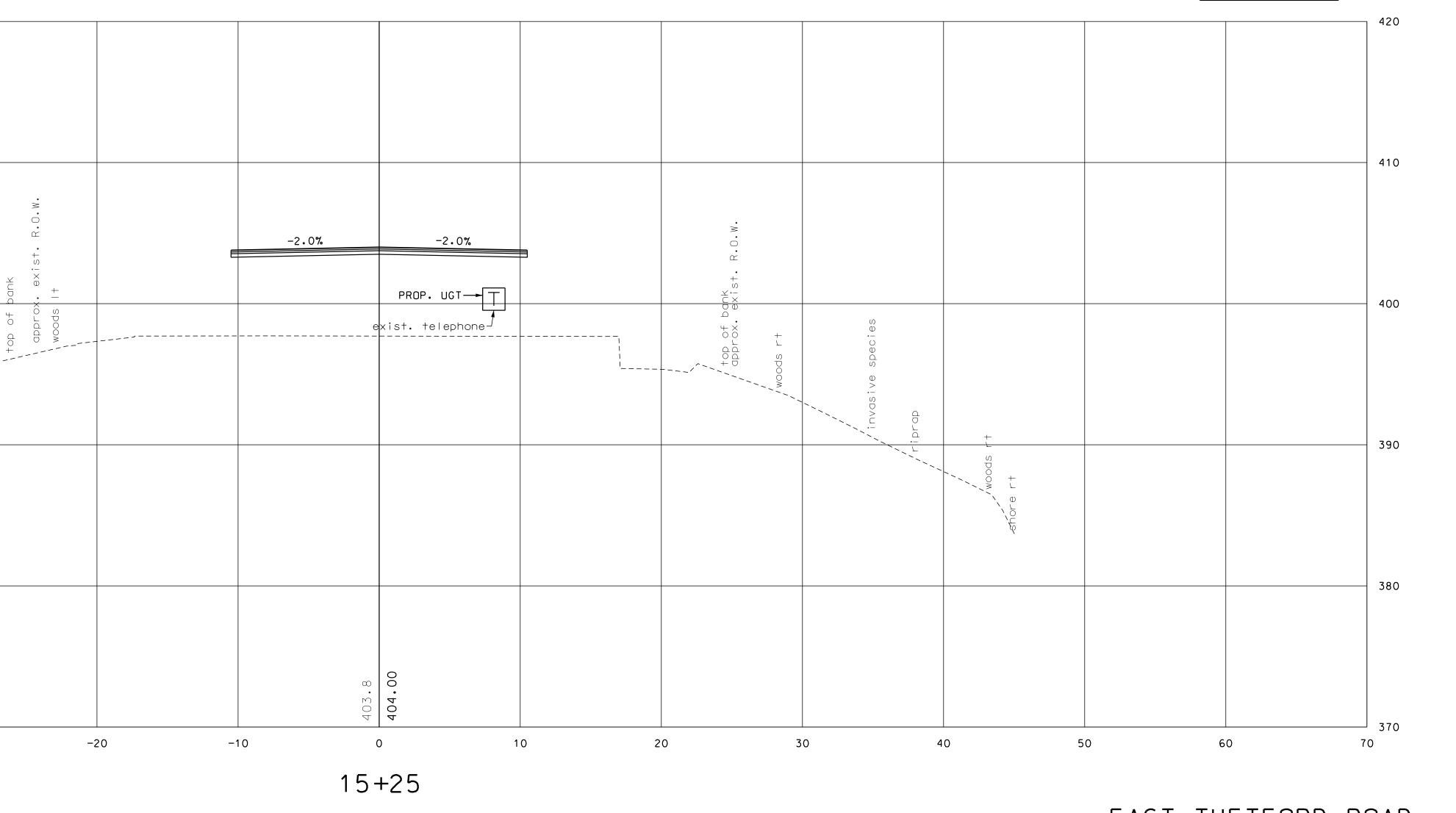




	DATE –				REVISIONS AFTER	PROPOSAL	
NEW DESIGN TJG	DATE 02/21	NUMBER	DATE	STATION	STATION	DESCRIPTION	
AS BUILT DETAILS	DATE						
370	390 380		400	410	420		
-70							
-6							
50							
-							
-50	shore I+						
_	+ spoo						
·40		đ					
-30							
0		+00 Of	Y C D Q				



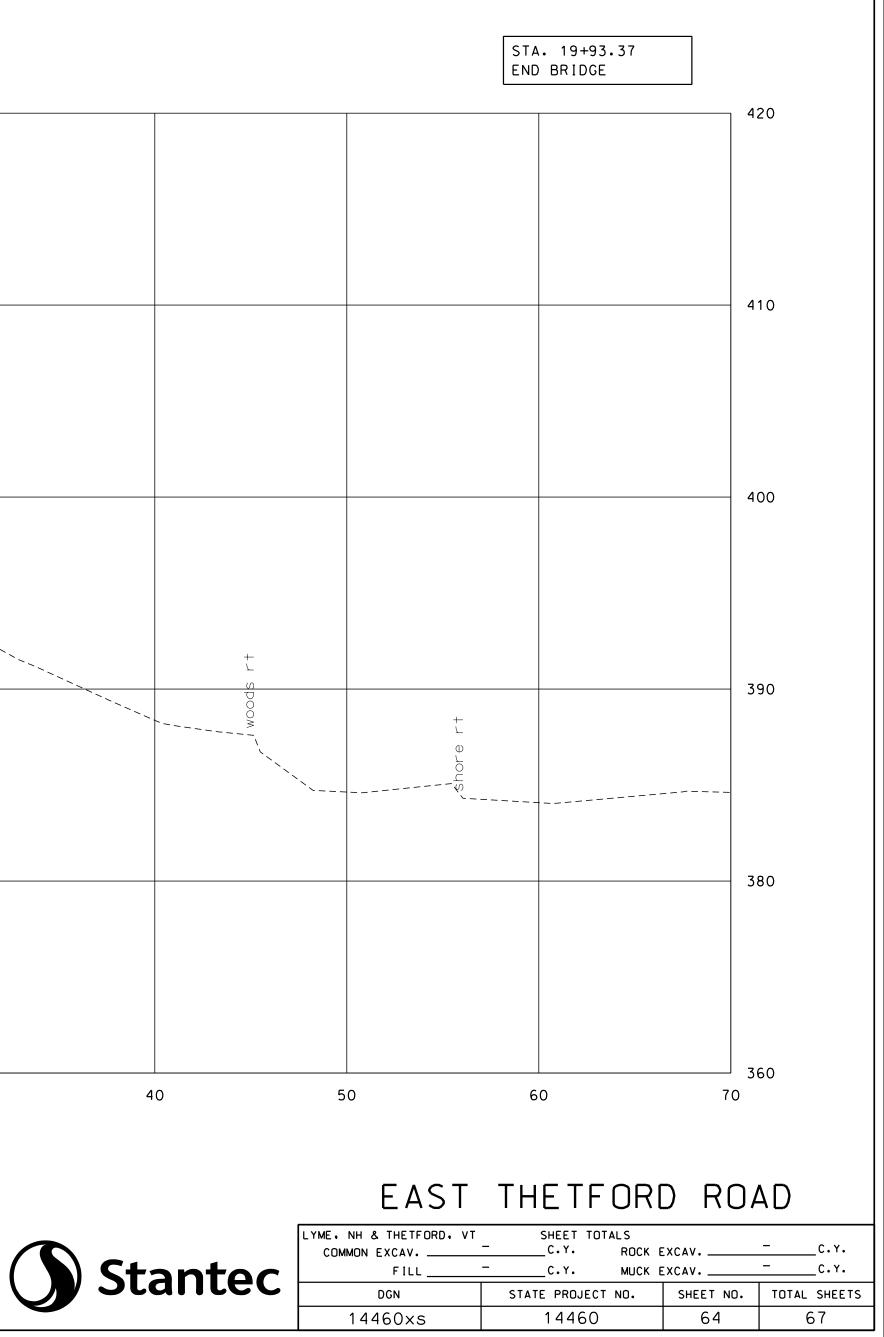


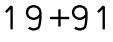


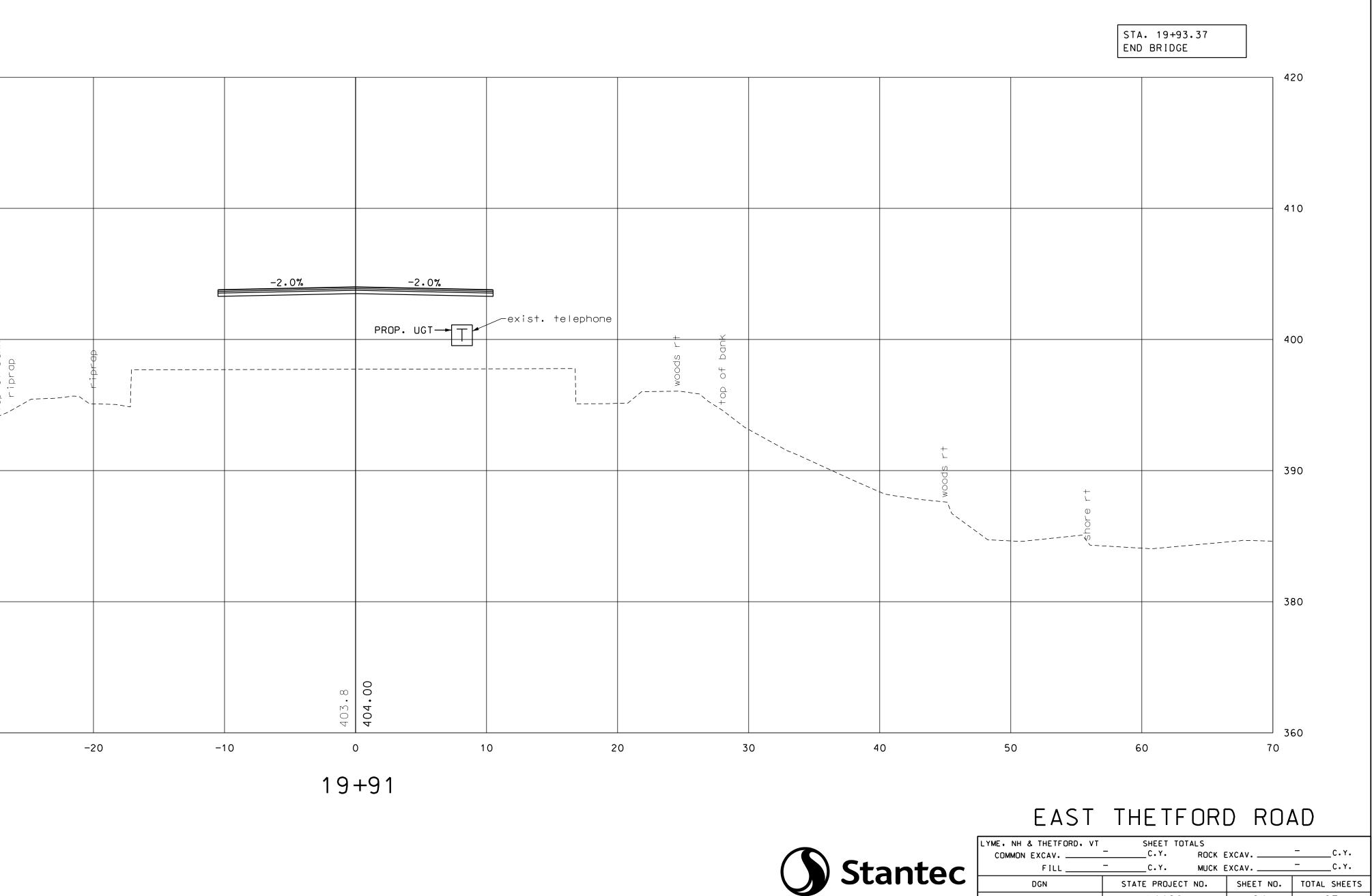
EAST	THETFOR	D ROA	٩D
ME, NH & THETFORD, VT COMMON EXCAV FILL	С.Ү. ROCK		
DGN	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
14460×s	14460	63	67

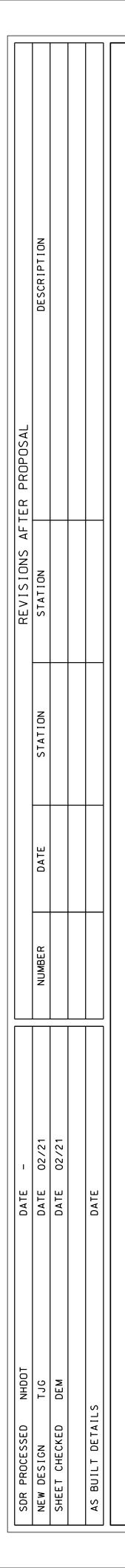
STA. 15+22.50 START BRIDGE

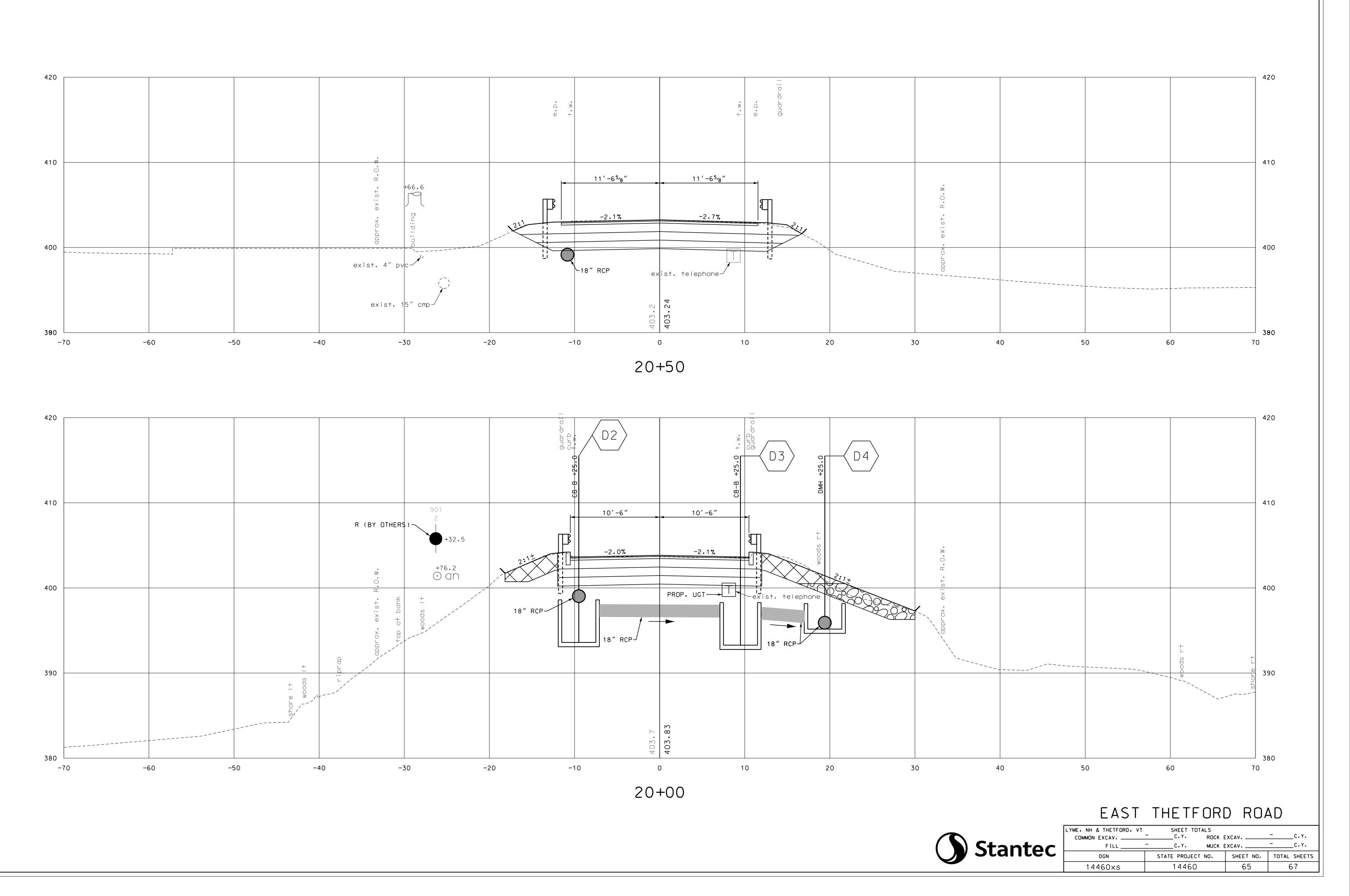
					REVISIONS AFTER	PROPOSAL	
		NUMBER	DATE	STATION			
SHEET CHECKED DEM	DATE 02/21						
AS BUILT DETAILS	DATE						
360	380	390	400	410	420		
0							
-(							
50							
-50							
	shore I+						
		+					
-40							
		r i pr qp					
		approx. exist.	R. O. W.				
-30		-					
		top of bank	- YC				
		) ) - -					

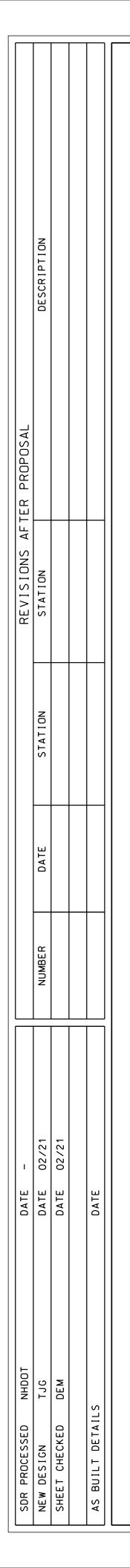


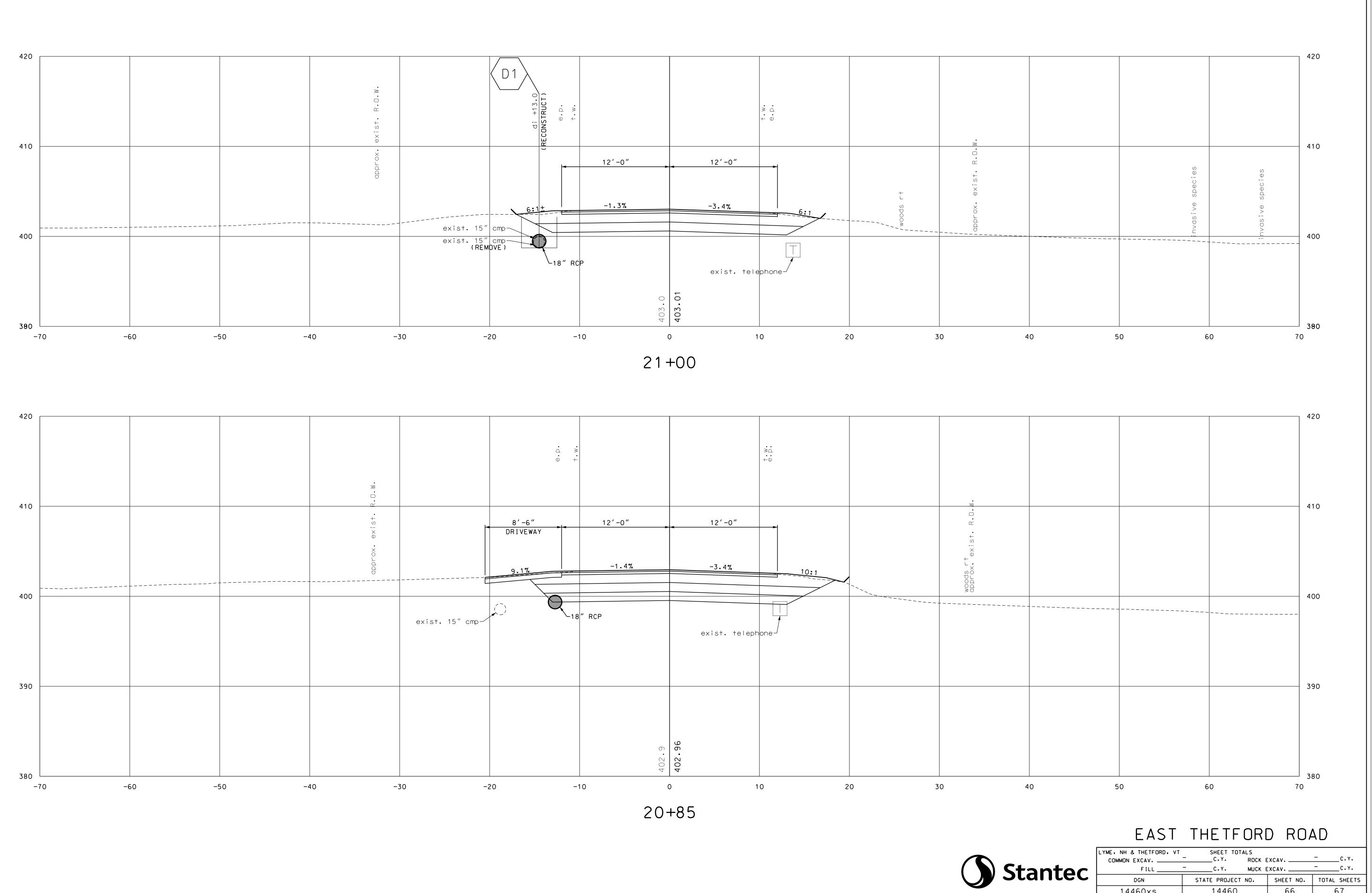


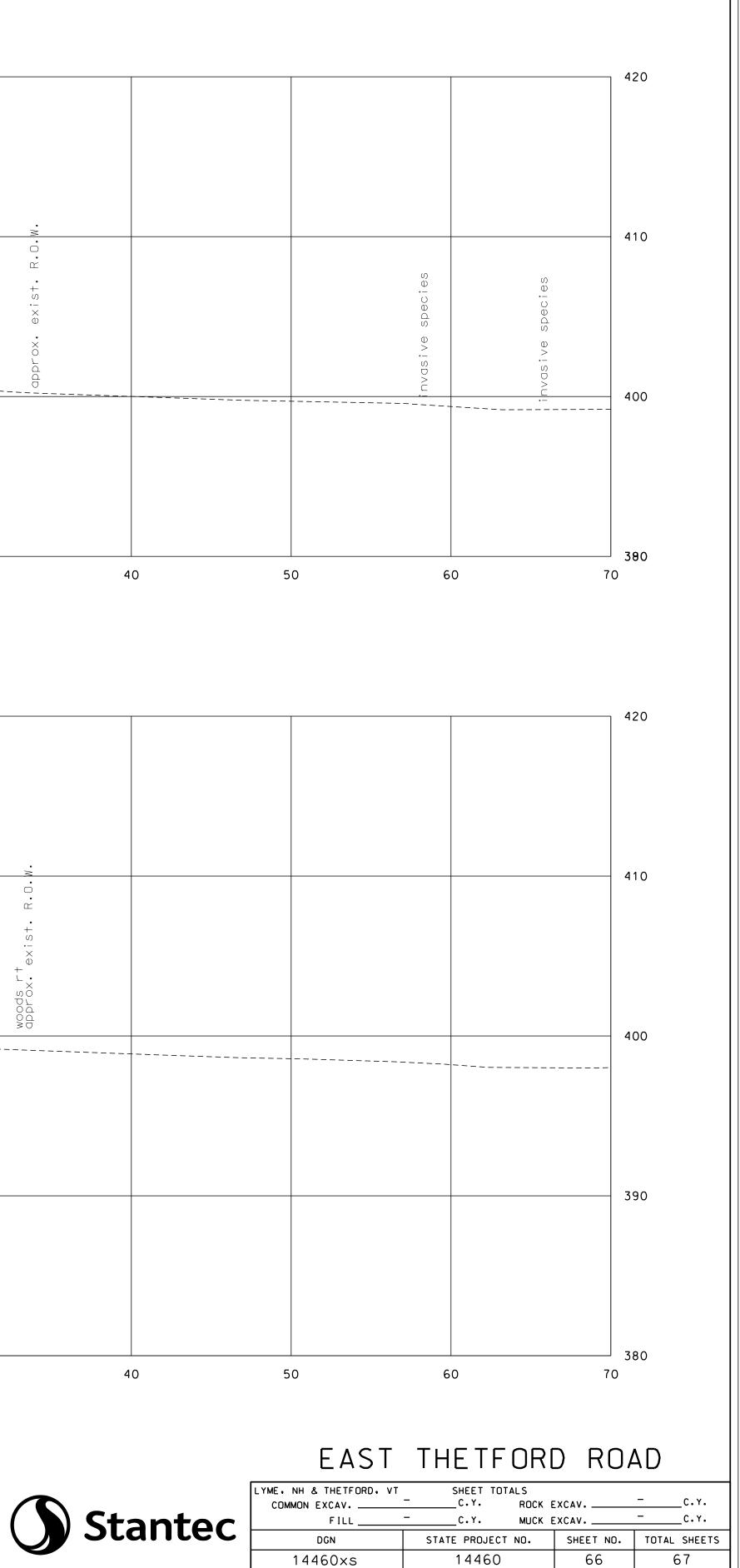


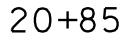


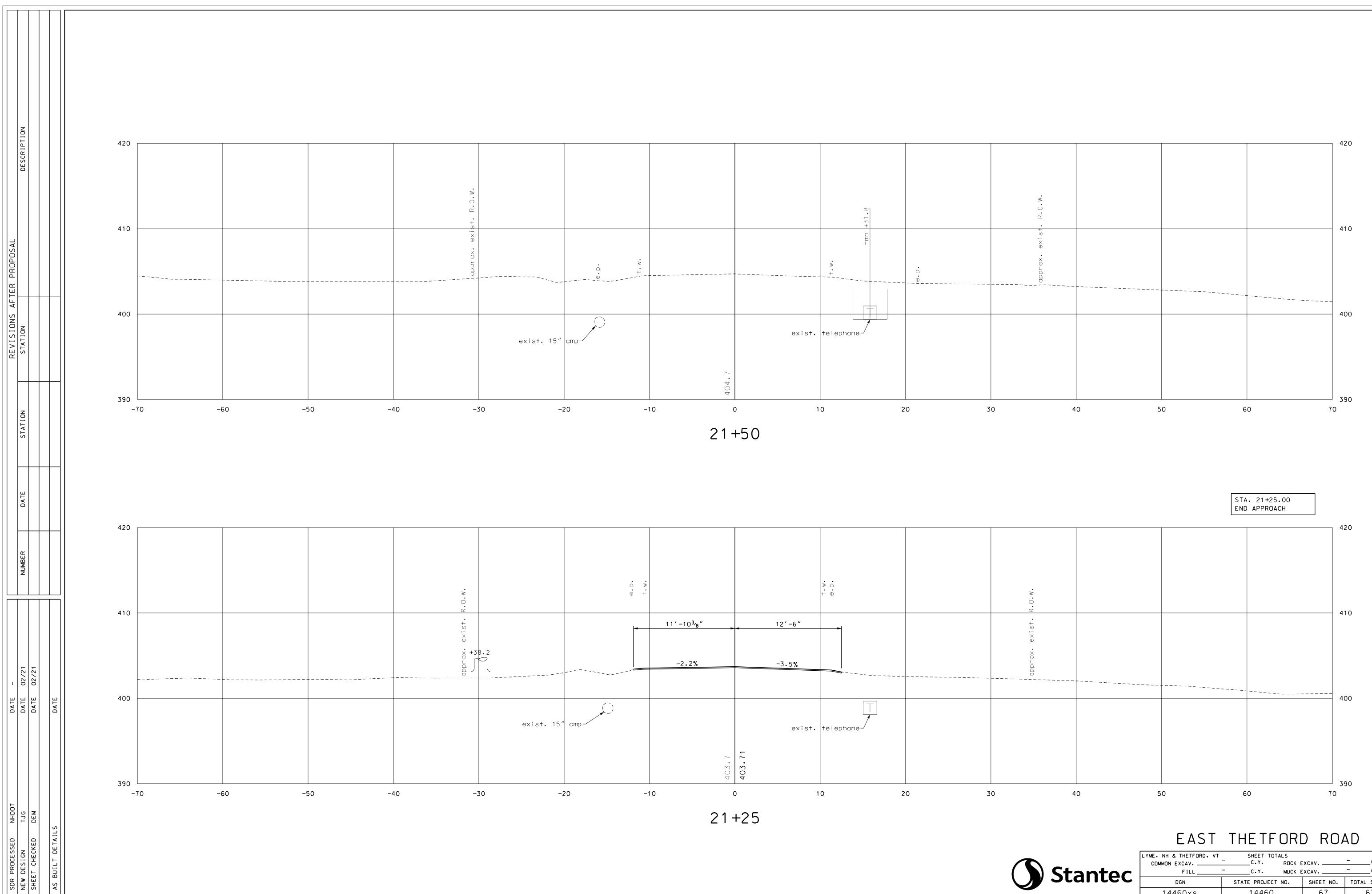












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				90
40	<sup>50</sup> ΓΔςΤ	<sup>60</sup> THE TF ORI	70 D RO	۵D
Stantec	LYME, NH & THETFORD, VT COMMON EXCAV FILL	SHEET TOTALS C.Y. ROCK C.Y. MUCK	EXCAV	C.Y. C.Y.
	DGN 14460×s	STATE PROJECT NO. 14460	SHEET NO.	TOTAL SHEETS 67