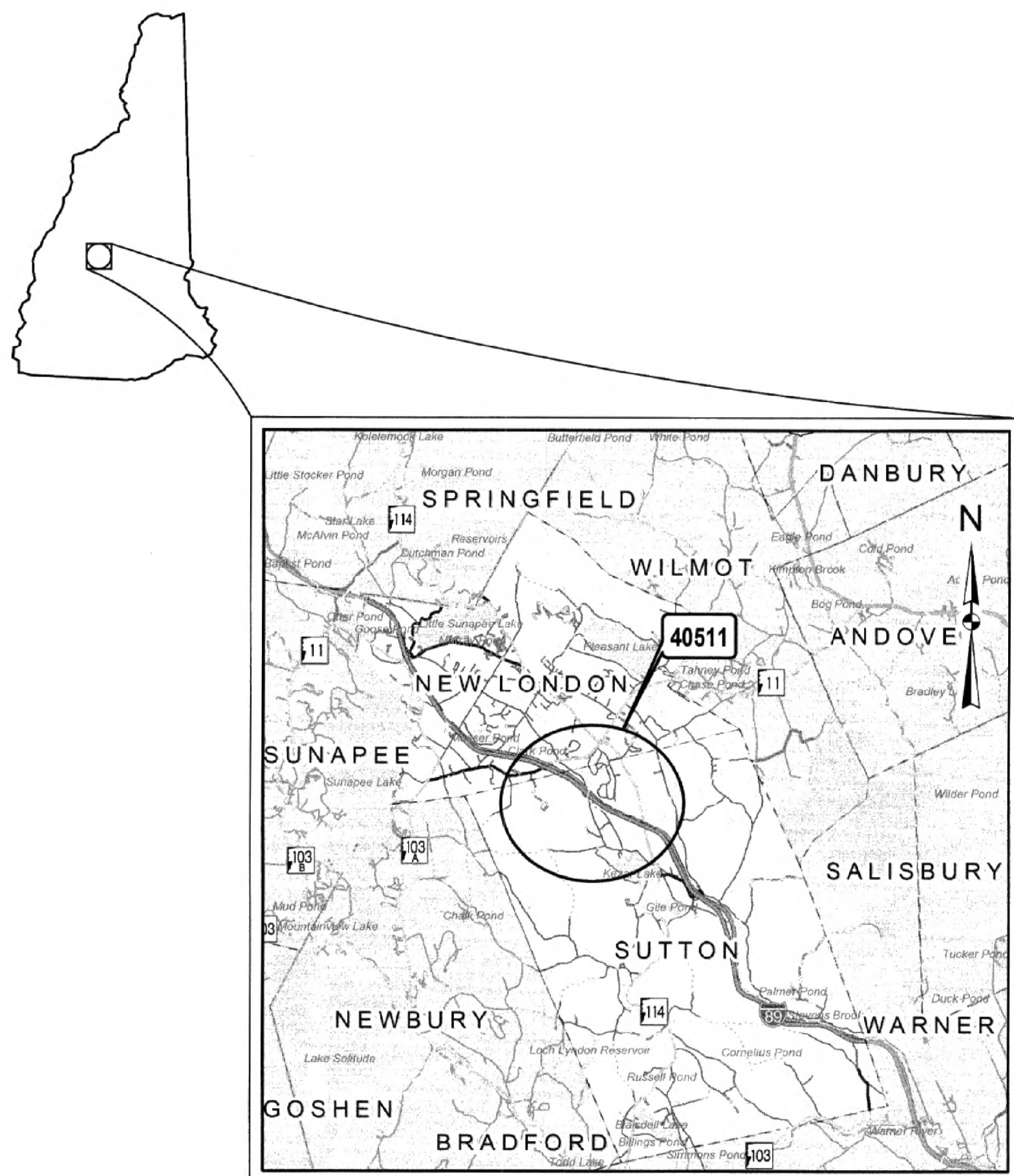


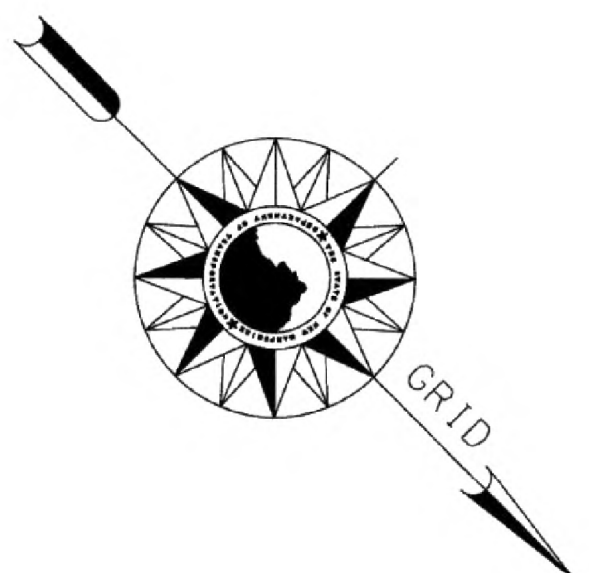
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION
CONSTRUCTION PLANS
FEDERAL AID PROJECT

X-A004(421)
N.H. PROJECT NO. 40511
INTERSTATE-89

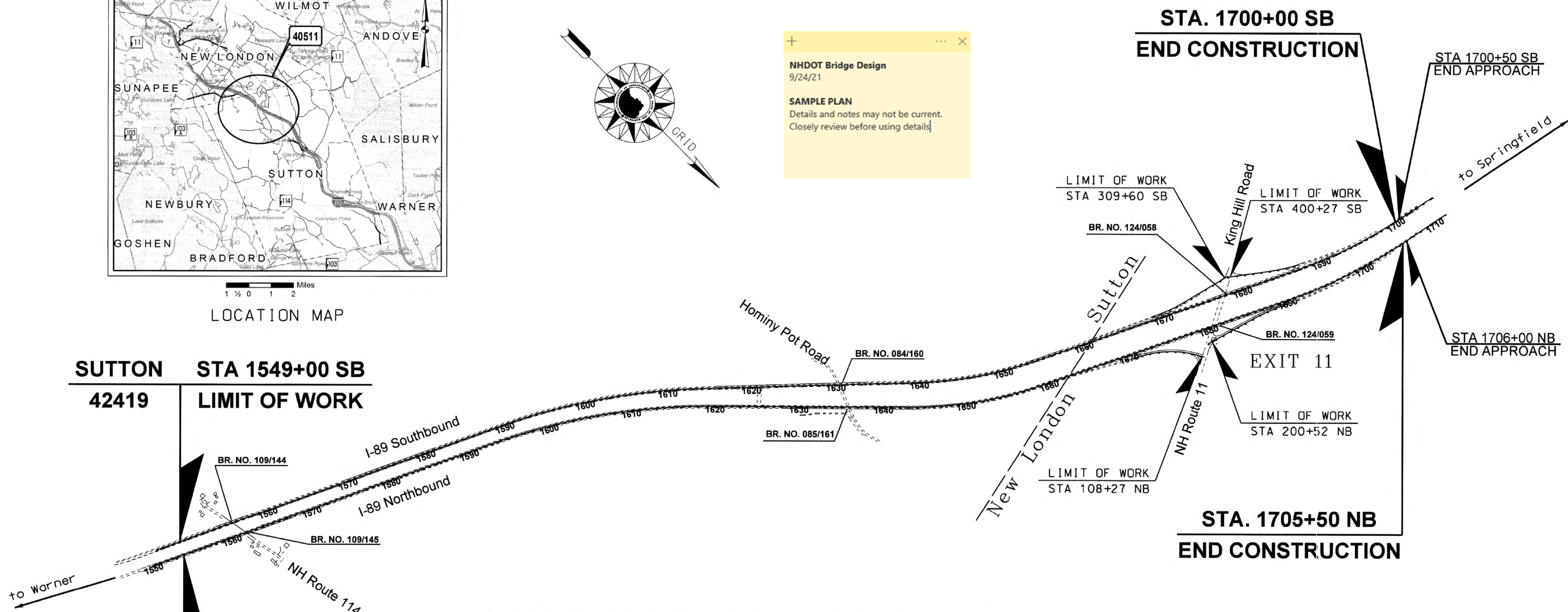
DESIGN DATA	
AVERAGE DAILY TRAFFIC 20 21	19,190
AVERAGE DAILY TRAFFIC 20 43	24,120
PERCENT OF TRUCKS	10%
DESIGN SPEED	70
LENGTH OF PROJECT	3 MI NB 3 MI SB



LOCATION MAP



NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!



TOWNS OF SUTTON & NEW LONDON
COUNTY OF MERRIMACK
SCALE: 1" = 700'

DRAWN BY: CWL DATE: 08/21
CHECKED BY: LMS DATE: 08/21

SUTTON 42419
STA 1549+00 SB
LIMIT OF WORK

SUTTON 42419
STA 1554+00 NB
LIMIT OF WORK

BRIDGE (WSP)	BRIDGE (NHDOT)	ROADWAY (NHDOT)

NHDOT THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

RECOMMENDED FOR APPROVAL:

 DIRECTOR OF PROJECT DEVELOPMENT
 DATE: 9/21/2021

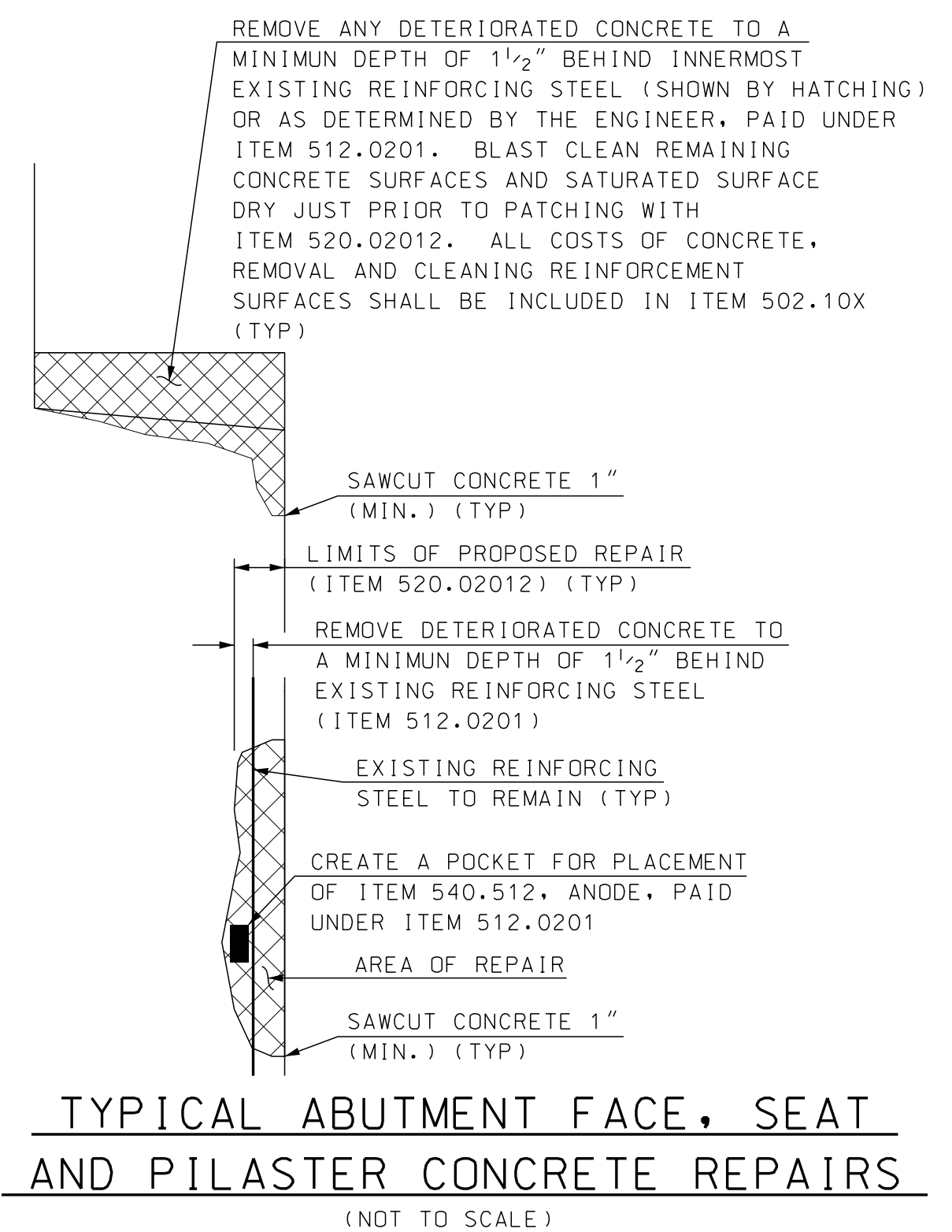
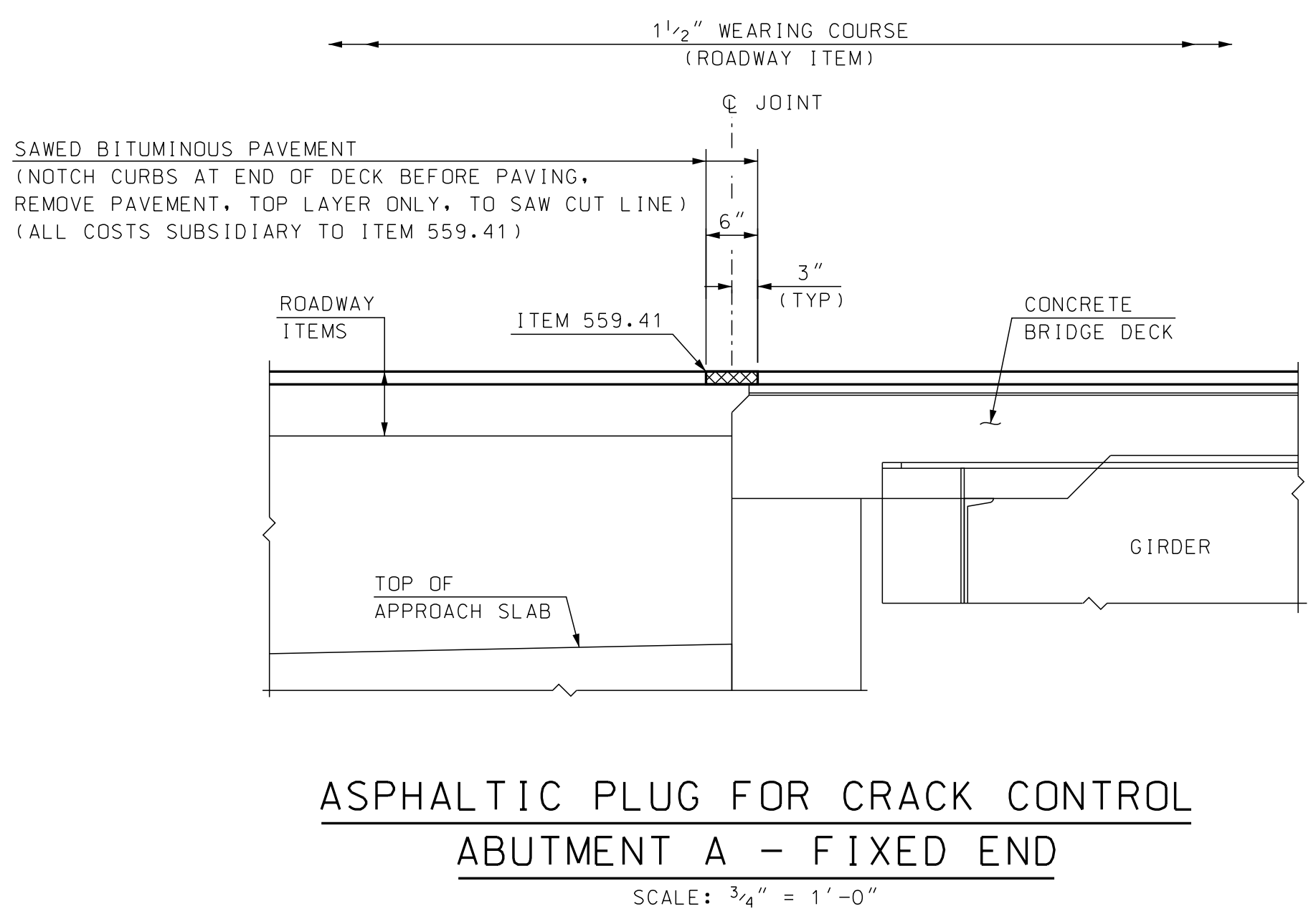
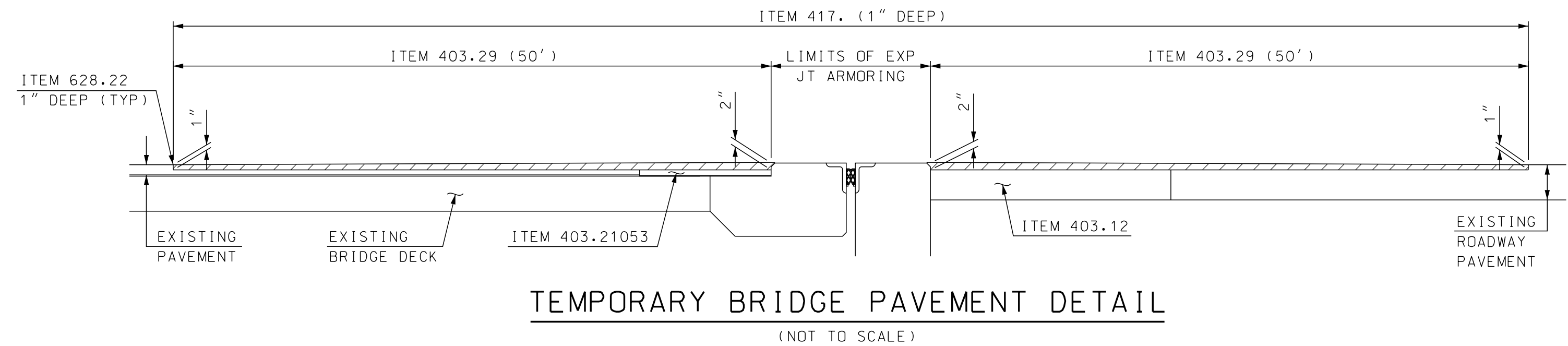
APPROVED:

 ASSISTANT COMMISSIONER AND CHIEF ENGINEER
 DATE: 9/29/21

BR. NO. 109/144 & 109/145	BR. NO. 084/160, 085/161, & 124/058, & 124/059	DRAWING NAME	FEDERAL PROJECT NO.	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
		40511fsc	X-A004(421)	40511	1	162

SUMMARY OF BRIDGE QUANTITIES							
ITEM NO.	ITEM DESCRIPTION					TOTAL	UNIT
		SUTTON BR NO 085/161 I-89 NB over NORTH HO/INY P/D RD	SUTTON BR NO 084/160 I-89 SB over NORTH HO/INY P/D RD	NEW LONDON BR NO 124/059 I-89 NB over KING HILL RD	NEW LONDON BR NO 124/058 I-89 SB over KING HILL RD		
** 304.301	CRUSHED GRAVEL	13	13	8	6	40	CY
** 403.12	HBP, HAND METHOD	9	7	6	6	28	TON
** 403.21053	HBP - 3/8" MIX, MACHINE METHOD (BRIDGE BASE)	1	1	2	2	6	TON
** 403.26	PAVEMENT JOINT ADHESIVE (BRIDGE BASE)	182	89	107	107	485	LF
** 403.29	HBP - TEMPORARY (BRIDGE)	30	30	31	31	122	TON
** 417.	COLD PLANING BITUMINOUS SURFACES	423	423	430	430	1706	SY
502.103	REMOVAL OF EXISTING BRIDGE STRUCTURE	1	-	-	-	1	U
502.104	REMOVAL OF EXISTING BRIDGE STRUCTURE	-	1	-	-	1	U
502.105	REMOVAL OF EXISTING BRIDGE STRUCTURE	-	-	1	-	1	U
502.106	REMOVAL OF EXISTING BRIDGE STRUCTURE	-	-	-	1	1	U
** 504.1	COMMON BRIDGE EXCAVATION (F)	16	16	17	15	64	CY
511.0001	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	16	-	-	-	16	SY
511.0002	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	-	16	-	-	16	SY
511.0003	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	-	-	20	-	20	SY
511.0004	CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F)	-	-	-	20	20	SY
** 512.0201	PREPARATIONS FOR CONCRETE REPAIRS, CLASS II	-	-	14	14	28	SY
520.0201	CONCRETE CLASS AA, ABOVE FOOTINGS	17	8	15	14	54	CY
** 520.02012	CONCRETE CLASS AA, ABOVE FOOTINGS (ABUT/WALL/PIER REPAIR)	-	-	2	2	4	CY
** 534.3	WATER REPELLENT (SILANE/SILOXANE)	35	36	27	27	125	GAL
** 538.2	BARRIER MEMBRANE, PEEL AND STICK - VERTICAL SURFACES (F)	17	16	19	16	68	SY
538.5	BARRIER MEMBRANE, HEAT WELDED (F)	28	10	21	21	80	SY
540.511	GALVANIC CORROSION PROTECTION SYSTEM (DISTRIBUTED ANODES)	87	39	-	-	139	LF
** 540.512	GALVANIC CORROSION PROTECTION SYSTEM (DISCRETE ANODES)	-	-	128	128	256	EA
** 541.5	PVC WATERSTOPS, NH TYPE 5 (F)	45	44	51	51	191	LF
** 544.2	REINFORCING STEEL, EPOXY COATED (F)	2506	938	2101	2101	7646	LB
** 544.21	REINFORCING STEEL, EPOXY COATED, MECHANICAL CONNECTORS (F)	102	102	93	93	390	LB
550.19103	TEMPORARY GIRDER SUPPORT SYSTEM	-	-	1	-	1	U
550.19104	TEMPORARY GIRDER SUPPORT SYSTEM	-	-	-	1	1	U
** 559.41	ASPHALTIC PLUG FOR CRACK CONTROL (F)	42	41	48	48	179	LF
560.1001	PREFABRICATED COMPRESSION SEAL EXPANSION JOINT (F)	45	-	-	-	45	LF
560.1002	PREFABRICATED COMPRESSION SEAL EXPANSION JOINT (F)	-	44	-	-	44	LF
561.1203	PREFABRICATED STRIP SEAL EXPANSION JOINT W/ PLOW PLATES (F)	-	-	51	-	51	LF
561.1204	PREFABRICATED STRIP SEAL EXPANSION JOINT W/ PLOW PLATES (F)	-	-	-	51	51	LF
** 562.1	SILICONE JOINT SEALANT (F)	5	5	11	12	33	LF
563.02	STEEL POST ASSEMBLY FOR T2 RAIL	-	-	2	2	4	EA
563.233	BRIDGE RAIL T3 WITH SNOW SCREENING	49.5	-	-	-	49.5	LF
563.8	RESETTING BRIDGE RAIL	-	-	1	1	2	LF
565.2329	BRIDGE APPROACH RAIL T3 (STEEL POSTS) (MODIFIED)	2	-	-	-	2	U
** 606.417	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL	230	230	210	210	880	LF
** 606.41741	PORTABLE CONCRETE BARRIER FOR TRAFFIC CONTROL - BRIDGE	240	240	240	240	960	LF
** 606.9523	TEMP. IMPACT ATTENUATION DEVICE (NON-REDIRECTIVE) TEST LEVEL 3	1	1	1	1	4	U
** 609.5	RESET GRANITE CURB	12	12	-	-	24	LF
609.55	RESET GRANITE CURB (BRIDGE)	6	12	-	-	18	LF
* 618.61	UNIFORMED OFFICERS WITH VEHICLE	*	*	*	*	*	\$
** 618.7	FLAGGERS	300	-	200	200	700	HR
** 619.1	MAINTENANCE OF TRAFFIC	.02	.02	.02	.02	.08	U
** 628.22	SAWED BITUMINOUS PAVEMENT (BRIDGE)	161	160	174	174	669	LF
** 632.0106	RETROREFLECTIVE PAINT PAVE. MARKING, 6" LINE	8358	8358	9520	7915	34151	LF
** 632.911	OBLITERATE PAVE. MARKING LINE, 12" WIDE & UNDER	9640	9640	8470	8005	35755	LF
** 645.7	STORM WATER POLLUTION PREVENTION PLAN	.02	.02	.02	.02	.08	U
** 645.71	MONITORING SWPPP AND EROSION AND SEDIMENT CONTROL	14	14	14	14	56	HR
** 670.104	TEMPORARY PORTABLE LIGHTING	1	1	1	1	4	U
** 692.	MOBILIZATION	.02	.02	.02	.02	.08	U
** 697.11	INVASIVE SPECIES CONTROL AND MANGEMENT PLAN	.02	.02	.02	.02	.08	U
** 697.41	CRITICAL PATH METHOD (CPM) ELECTRONIC SCHEDULE	.02	.02	.02	.02	.08	U
** 697.31	PROJECT OPERATION PLAN	.02	.02	.02	.02	.08	U
** 698.12	FIELD OFFICE TYPE B	1	1	1	1	4	MON
* 699.	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	*	*	*	*	*	\$
* 1002.1	REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES	*	*	*	*	*	\$
* 1010.15	FUEL ADJUSTMENT	*	*	*	*	*	\$
* 1010.2	ASPHALT CEMENT ADJUSTMENT	*	*	*	*	*	\$
* 1020.03	INSPECTION - STEEL	*	*	*	*	*	\$

* NOT A BID ITEM
** NOT AN ITEM TOTAL



NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	SUTTON & NEW LONDON	BRIDGE NO.	VARIOUS	STATE PROJECT	40511
LOCATION	I-89 NORTHBOUND AND SOUTHBOUND over VARIOUS				
DETAILS AND QUANTITIES					BRIDGE SHEET
DESIGNED	CKN	8/21	CHECKED	WPS	8/21
DRAWN	SMG/GMC	4/21	CHECKED	CKN	8/21
QUANTITIES	SMG/GMC	8/21	CHECKED	SMG/GMC	8/21
ISSUE DATE			FEDERAL PROJECT NO.		
REV. DATE				SHEET NO.	97
				TOTAL SHEETS	162

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/	40511 notes	AS NOTED

SCOPE OF WORK

SUTTON 1-89 NB (085/161) AND SB (084/160) over NORTH HOMINY POT RD

- COLD PLANE 1" PAVEMENT
- REMOVE EXISTING EXPANSION JOINT
- CONSTRUCT NEW EXPANSION JOINT
- REMOVE AND REPLACE WEST BRIDGE CURB OF 1-89 NB (085/161)
- PAVE 1 1/2" WEARING COURSE

NEW LONDON 1-89 NB (124/059) AND SB (124/085) over KING HILL RD

- COLD PLANE 1" PAVEMENT
- REMOVE EXISTING EXPANSION JOINT
- CONSTRUCT NEW EXPANSION JOINT
- REPAIR SPALLS ON ABUTMENTS, BEARING SEATS AND PILASTER
- PAVE 1 1/2" WEARING COURSE

DESIGN LOADS, MATERIALS AND SPECIFICATIONS

1. DESIGN LOADING: HL-93
2. DESIGN METHOD: LOAD AND RESISTANCE FACTOR DESIGN (LRFD)
3. SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8th Ed., 2017 AS AMENDED
AASHTO BRIDGE CONSTRUCTION SPECIFICATIONS WITH INTERIMS
NHDOT 2016 STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION AS AMENDED
WELDING PER AASHTO/AWS D1.5-20 (INCLUDING ALL REVISIONS PUBLISHED BY AASHTO AS OF THE BID OPENING DATE)
4. REINFORCING STEEL: AASHTO M31 (ASTM A615) GRADE 60
DECK AND BACKWALL BLOCKOUTS:
REINFORCEMENT SHALL BE EPOXY COATED.
5. CONCRETE FOR EXPANSION JOINT REPLACEMENT AND CURB REPAIR:
DECK AND BACKWALL BLOCKOUTS, ABUTMENT BACKWALL CAPS, AND STUBWALLS:
ITEM 520.0201, CONCRETE CLASS AA, ABOVE FOOTINGS
4,000 PSI (AT 28 DAYS)
6. CONCRETE FOR SUBSTRUCTURE REPAIR:
ITEM 520.02012, CONCRETE CLASS AA, ABOVE FOOTINGS
(ABUT/ WALL/PIER REPAIR)

TO THE CONTRACTOR

THE CONTRACTOR SHOULD BE AWARE THAT EXISTING STRUCTURE DIMENSIONS AND ELEVATIONS SHOWN ON THESE PLANS WERE TAKEN FROM ORIGINAL BRIDGE PLANS AND DO NOT NECESSARILY REPRESENT "AS BUILT" DIMENSIONS AND ELEVATIONS. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURES AND BE PREPARED TO MAKE ANY ADJUSTMENTS REQUIRED TO PROPERLY REHABILITATE THE BRIDGE. ANY DISCREPANCIES IN DIMENSIONS, CHARACTER, OR EXTENT OF THE EXISTING FEATURES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ADVANCING THE WORK. THE EXISTING PLANS MAY BE VIEWED AT THE NHDOT, BUREAU OF BRIDGE DESIGN OFFICE DURING THE BIDDING PERIOD. AFTER THE CONTRACT IS AWARDED, A COMPLETE SET OF THE EXISTING PLANS WILL BE FORWARDED TO THE CONTRACTOR UPON REQUEST. THE FILE NUMBERS FOR THESE BRIDGES ARE FOUND IN THE GENERAL CONSTRUCTION NOTES, NOTE 1 THIS SHEET.

BRIDGE REMOVAL NOTES

1. THE CONTRACTOR SHALL SUBMIT, FOR DOCUMENTATION IN ACCORDANCE WITH SECTION 105.02, A DETAILED OUTLINE OR PLAN OF THE METHOD FOR ITEM 502.10X PRIOR TO COMMENCEMENT OF ANY REMOVAL WORK.
2. REMOVAL OF EXISTING BRIDGE STRUCTURE, ITEMS 502.103 THRU 502.106, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL INCLUDE THE FOLLOWING:
 - REMOVAL OF EXISTING BRIDGE RAIL POSTS AND ANCHORAGES AT EXPANSION JOINTS.
 - REMOVAL OF EXISTING EXPANSION JOINT, TOP OF BACKWALL, AND END OF DECK TO LIMITS SHOWN ON THE PLANS.
 - REMOVAL OF EXISTING CONCRETE EPOXY COATING ON BACKWALL AND ABUTMENTS.
 - REMOVAL OF GRANITE CURB AS REQUIRED.
3. EXISTING DECK PAVEMENT AND MEMBRANE SHALL BE REMOVED UNDER ITEM 511.000X, CONCRETE BRIDGE DECK PAVEMENT REMOVAL (F).

GENERAL NOTES

1. THE CONTRACTOR SHALL CONTACT DIG SAFE TO SURVEY AND TAG ALL BRIDGE COPING AND UNDERGROUND LOCATIONS NEAR THE BRIDGE FOR POSSIBLE UTILITIES.
2. EXISTING BRIDGE PLANS ARE AVAILABLE ONLINE IN THE BID PACKAGE ON THE INVITATION TO BID WEBPAGE DURING THE BIDDING PERIOD. FILE NUMBERS FOR EACH BRIDGE ARE LISTED AS FOLLOWS:

SUTTON BR NO 085-161	FILE NOS 20-4-4, 42-2-1, & 109-4-1
SUTTON BR NO 084-160	FILE NOS 20-4-5, 42-2-1, & 109-4-1
NEW LONDON BR NO 124-059	FILE NOS 21-1-1 & 109-4-1
NEW LONDON BR NO 124-058	FILE NOS 21-1-2, 21-1-1, & 109-4-1
3. PORTABLE CONCRETE BARRIER OR CHANNELIZING DEVICES SHALL BE IN PLACE BEFORE REMOVAL OPERATIONS BEGIN FOR EACH CONSTRUCTION PHASE. SEE BARRIER LAYOUT PLANS FOR LAYOUT OF PROPOSED PHASED CONSTRUCTION.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO INSURE THAT DEBRIS DOES NOT FALL INTO THE ROADWAY BELOW EXISTING STRUCTURES. ALL COST TO BE PAID UNDER ITEM 502.10X AND SHALL INCLUDE THE ERECTION, MAINTENANCE, AND REMOVAL OF TEMPORARY STRUCTURES OR OTHER SUCH METHODS AS APPROVED.
5. NO SCAFFOLDS SHALL BE ERECTED OR OPERATIONS CONDUCTED IN THE ROADWAY RIGHT OF WAY BELOW UNLESS APPROVED BY THE ENGINEER.
6. DURING ALL REMOVAL AND REPAIR OPERATIONS EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING DECK REINFORCEMENT. ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.

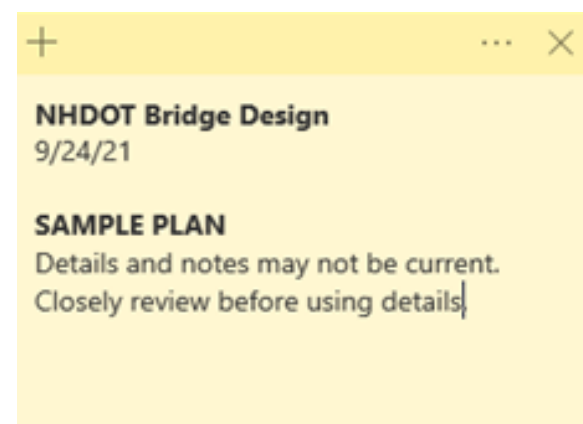
7. DURING END OF DECK CONCRETE REMOVAL OPERATIONS, EXTREME CARE SHALL BE TAKEN NOT TO DAMAGE TOP FLANGES OF EXISTING GIRDERS. ANY DAMAGE SHALL BE IMMEDIATELY REPORTED TO THE BUREAU OF BRIDGE DESIGN AND REPAIRED AS DIRECTED, AT THE CONTRACTOR'S EXPENSE.
8. TO ACCOMPLISH THE PROPOSED EXPANSION JOINT REPAIRS, THE EXISTING DECK AND BACKWALL SHALL BE REMOVED TO LIMITS SHOWN IN THE PLANS UNDER ITEM 502.10X, REMOVAL OF EXISTING BRIDGE STRUCTURE. ALL EXPOSED CONCRETE SURFACES OF THE DECK AND BACKWALL SHALL BE SAWCUT 1" DEEP TO PROVIDE CLEAN REMOVAL LINES (ALL COSTS INCLUDED IN ITEM 502.10X, REMOVAL OF EXISTING BRIDGE STRUCTURE). PRIOR TO PLACING NEW CONCRETE, THE REMOVAL SURFACES SHALL BE BLAST CLEANED AND SATURATED SURFACE DRY (ALL COSTS INCLUDED IN ITEM 520.0201).
9. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4", UNLESS OTHERWISE NOTED.
10. ITEM 538.5, BARRIER MEMBRANE, HEAT WELDED (F) SHALL BE OVERLAPPED PER MANUFACTURER'S REQUIREMENTS AT PHASED CONSTRUCTION JOINTS. AT DECK ENDS, WHERE THE MEMBRANE WILL NOT OVERLAP NEW OR EXISTING MEMBRANE, A SEALANT/REPAIR MASTIC COMPATIBLE WITH ITEM 538.5 SHALL BRIDGE ANY GAP BETWEEN THE EXISTING MEMBRANE AND NEW MEMBRANE OR BETWEEN THE NEW MEMBRANE AND THE END DECK WHEN THERE IS NO EXISTING MEMBRANE. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 538.5.
11. PROFILE ADJUSTMENTS IN THE VICINITY OF THE REHABILITATED BRIDGES SHALL BE MADE AS REQUIRED OR AS DIRECTED TO ACCOUNT FOR VARIATIONS IN THE BRIDGE DECK CROSS SLOPES. ALL COSTS SHALL BE SUBSIDIARY TO THE APPROPRIATE ITEMS.
12. REMOVE ANY EXISTING LOOSE OR FLAKING CONCRETE EPOXY COATING FROM THE BACKWALL AND SEATS AS DIRECTED. COSTS PAID UNDER ITEM 502.10X.
13. EXISTING BRIDGE DECK COPINGS, WINGS, BACKWALLS, BRIDGE SEATS, AND ABUTMENT FACES 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 WITH ITEM 534.3, WATER REPELLENT (SILANE-SILOXANE). APPLICATION RATE = 150 SF/GAL.
14. EXCEPT AS SHOWN IN PLANS, WHERE THE EXISTING GRANITE CURB HAS SEPARATED OR BEEN DISPLACED FROM THE CONCRETE BRUSH CURB, THE GRANITE CURB SHALL BE REMOVED AND RESET AS DIRECTED BY THE ENGINEER. ALL COSTS INCLUDED IN ITEM 609.55, RESET GRANITE CURB (BRIDGE).
15. APPLY PAVEMENT JOINT ADHESIVE ALONG ALL LONGITUDINAL JOINTS BETWEEN PAVEMENT PASSES AND ALONG BRIDGE CURB LINES AND EXPANSION JOINT ARMORING PRIOR TO PLACING ALL PAVEMENT COURSES. FOR BRIDGE BASE COURSE APPLY ITEM 403.26, PAVEMENT JOINT ADHESIVE (BRIDGE BASE) AND FOR WEARING COURSE APPLY ITEM 403.16, PAVEMENT JOINT ADHESIVE (ROADWAY ITEM).
16. APPLY ITEM 410.22, ASPHALT EMULSION FOR TACK COAT, TO BOTH EXISTING AND PROPOSED BRIDGE AND ROADWAY PAVEMENT COURSES PRIOR TO PLACING THE NEXT COURSE.
17. ITEM 403.12, HOT BITUMINOUS PAVEMENT, HAND METHOD, SHALL BE PLACED TO FINISHED GRADE AS REQUIRED FOR PHASING IN PLACE OF TEMPORARY PAVEMENT ON BRIDGES WHERE HAND METHOD IS REQUIRED.
18. ITEM 563.8, RESETTING BRIDGE RAIL, SHALL BE PAID AS 1 LF/POST.
19. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL MAKE A RECORD OF THE EXISTING PAINT PAVEMENT MARKINGS. UPON COMPLETION OF THE BRIDGE WORK, THE PAVEMENT MARKINGS SHALL BE REPLACED IN KIND WITH ITEM 632.0106, RETROREFLECTIVE PAINT PAVE. MARKING, 6" LINE AS DIRECTED BY THE PROJECT ENGINEER.
20. NO STRUCTURAL REPAIRS ARE ANTICIPATED. STRUCTURAL STEEL SHALL BE INSPECTED FOR STRUCTURAL DEFICIENCIES (e.g. SIGNIFICANT STEEL LOSS, CRACKS, MISSING BOLTS, ETC.) JOINTLY BY THE CONTRACT ADMINISTRATOR AND CONTRACTOR. ANY REPAIRS REQUIRED BY THE DEPARTMENT SHALL BE PERFORMED BY THE CONTRACTOR AND PAID UNDER ITEM 1002.1, REPAIRS OR REPLACEMENTS AS NEEDED - BRIDGE STRUCTURES.
21. INSTALL 1/2" CORK FILLER (SUBSID. TO ITEM 520.0201) BETWEEN EXISTING WINGWALLS AND PROPOSED CONCRETE AND SEAL FRONT FACE, ACROSS TOP AND DOWN BACK WITH ITEM 562.1, SILICONE JOINT SEALANT (F), AS SHOWN ON PLANS OR AS DIRECTED.
22. SEAL 1/2" MORTAR JOINT BETWEEN EXISTING GRANITE CURB AND PROPOSED CONCRETE WITH ITEM 562.1, SILICONE JOINT SEALANT (F), AS SHOWN ON PLANS OR AS DIRECTED.
23. PRIOR TO RESETTING EXISTING T2 BRIDGE RAIL POST, INSTALL ITEM 563.02, STEEL POST ASSEMBLY FOR T2 RAIL. REINSTALLING EXISTING ANCHOR ASSEMBLY SHALL NOT BE ALLOWED.
24. FOR BRIDGE GRANITE CURB AND DETERIORATED CONCRETE REMOVAL, SAWCUT EXISTING CONCRETE 1" DEEP ON ALL EXPOSED SURFACES TO PROVIDE CLEAN REMOVAL LINES. REMOVE EXISTING CONCRETE AS SHOWN IN THE PLANS. ALL COSTS TO BE INCLUDED IN ITEM 502.10X REMOVAL OF EXISTING BRIDGE STRUCTURE.
25. LIGHTLY BLAST-CLEAN ABUTMENTS AND WINGWALLS TO REMOVE GRAFITI AS DIRECTED BY THE ENGINEER. ALL COSTS SHALL BE INCLUDED IN ITEM 534.3, WATER REPELLENT (SILANE-SILOXANE).
26. HOLES DRILLED IN EXISTING CONCRETE SHALL BE DRILLED 1/2" LARGER THAN THE BAR DIAMETER AND GROUTED WITH AN APPROVED HIGH STRENGTH, NON-SHRINK GROUT. ALL COSTS FOR DRILLING AND GROUTING SHALL BE SUBSIDIARY TO ITEM 520.0201, UNLESS OTHERWISE NOTED.
27. ALL RECONSTRUCTED BLOCKOUTS (DECK AND BACKWALL) AND STUBWALLS FOR EXPANSION JOINTS SHALL HAVE EPOXY COATED REINFORCEMENT AND CAN BE TIED TO THE EXISTING BLACK REINFORCING.
28. ALL EXISTING BRONZE DISCS REPRESENTING STATE BENCHMARKS OR SURVEY TRIANGULATION POINTS MUST NOT BE DISTURBED. WHEN THE WORK CALLED FOR INVOLVES DISTURBING A BRONZE DISC, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SUFFICIENTLY IN ADVANCE OF THE WORK TO PERMIT THE STATE TO TEMPORARILY RELOCATE THE AFFECTED MARKER.
29. PRIOR TO SETTING BARRIER FOR TRAFFIC CONTROL IN PHASE ONE, THE ASPHALT SHALL BE SAWCUT ALONG THE PROPOSED PHASE ONE BARRIER EDGE IN THE AREA OF THE JOINT REPAIR, TO AID IN REMOVAL LIMITS. ALL COST SUBSIDIARY TO ITEM 502.10X.
30. DISTRIBUTED AND DISCRETE ANODES SHALL BE PLACED IN LOCATIONS AS SHOWN ON THE PLANS. THE ANODES SHALL BE TIED TO THE EXISTING STEEL TOP MAT (BLACK BARS ONLY) AS NOTED IN THE SPECIAL PROVISION. ALL DISTRUBUTED ANODES SHALL BE TIED TO BOTH TOP AND BOTTOM MATS OF DECK REINFORCING. ALL COSTS SHALL BE INCLUDED IN ITEMS 540.511 AND 540.512.

31. JACKING IS REQUIRED TO REMOVE AND REPLACE DETERIORATED CONCRETE AS OUTLINED IN THE PLANS AND SPECIAL PROVISIONS. THE PROPOSED JACKING METHOD SHALL BE SUBMITTED TO THE ENGINEER FOR DOCUMENTATION. THE MAXIMUM ALLOWABLE DIFFERENCE BETWEEN ADJACENT JACKING POINTS SHALL BE 1/4". TEMPORARY SHIMS OR BLOCKS SHALL BE PLACED BENEATH GIRDER FLANGES DURING THE TIME THAT JACKS ARE SUPPORTING THE LOADS. ALL COSTS SHALL BE INCLUDED IN ITEM 550.1910X, TEMPORARY GIRDER SUPPORT SYSTEM.
32. EXISTING ABUTMENTS, ABUTMENT SEATS AND PILASTER WINGWALLS SHALL BE JOINTLY INSPECTED BY THE ENGINEER AND CONTRACTOR AND ALL DETERIORATED CONCRETE SHALL BE REMOVED. ALL INSPECTION, REMOVAL, AND CLEANING SHALL BE AS SPECIFIED IN SECTION 512 AND SUBSIDIARY TO ITEM 512.0201. PRIOR TO PLACING NEW CONCRETE, THE PREPARED AREAS SHALL BE BLAST CLEANED AND SATURATED SURFACE DRY AND BE PAID UNDER ITEM 520.02012, CONCRETE CLASS AA, ABOVE FOOTINGS (ABUT/WALL/PEIR REPAIR) AND SHALL BE THE SAME MIX AS FOR CONCRETE BRIDGE DECKS.

RE INFORCEMENT NOTES

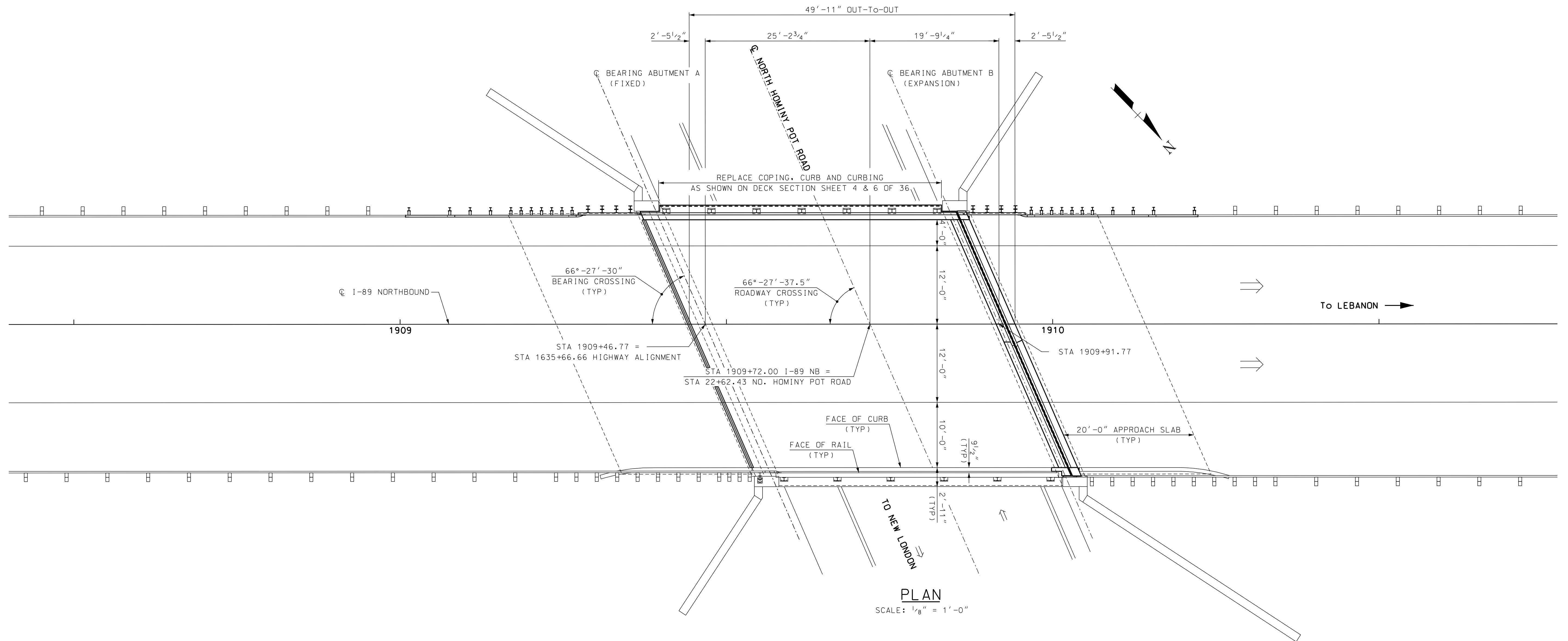
1. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRATICE, SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE (CSI) "MANUAL OF STANDARD PRACTICE".
2. EXISTING REINFORCING STEEL THAT IS TO REMAIN IN PLACE WITHIN THE RECONSTRUCTED AREAS SHALL BE CUT AS REQUIRED TO PROVIDE 2 1/2" MINIMUM CLEAR COVER FROM THE PROPOSED CONCRETE SURFACES, EXCEPT AS OTHERWISE NOTED. ALL COSTS INCLUDED IN ITEM 502.10X. ALL NEW REINFORCING BARS SHALL HAVE A MINIMUM CLEAR COVER OF 2 1/2" FROM PROPOSED CONCRETE SURFACES UNLESS OTHERWISE NOTED.
3. PLACE REINFORCING STEEL TO AVOID RAIL POST ANCHOR ASSEMBLIES AND EXPANSION JOINT STEEL.
4. ANY EPOXY COATED REBAR CUT TO FIT OR WITH THE EPOXY NICKED SHALL BE TOUCHED UP WITH AN APPROVED EPOXY COATING MATERIAL. ALL COSTS SHALL BE INCLUDED IN ITEM 544.2 OR 544.21.
5. REINFORCING BAR MARKS APPENDED WITH AN "E" INDICATE EPOXY COATED BARS.
6. THE DECK REINFORCING LAYOUT SHOWN ON THE CONTRACT PLANS IS BASED ON AN ASSUMED EXPANSION JOINT DESIGN. DECK REINFORCEMENT MAY REQUIRE ADJUSTMENT IN THE FIELD DURING THE INSTALLATION BASED ON DETAILS SHOWN ON THE APPROVED EXPANSION JOINT SHOP DRAWINGS.
7. ANY EXISTING REBAR THAT IS EXPOSED SHALL BE CLEANED OF ALL FOREIGN MATERIAL, SUBSIDIARY TO ITEM 502.10X.
8. REINFORCING LEGEND:

ALT = ALTERNATE	BOT = BOTTOM	BRG = BEARING
CLR = CLEAR	CPL = MECHANICAL COUPLER	DOW = DOWEL
E = EPOXY COATED	EQ = EQUAL	FM = FAR MIDDLE
FS = FAR SIDE	FSM = FAR SIDE MIDDLE	MAX = MAXIMUM
MC = MECHANICAL CONNECTOR	MID = MIDDLE	MIN = MINIMUM
NM = NEAR MIDDLE	NS = NEAR SIDE	NM = NEAR SIDE MIDDLE
SECT = SECTION	SP = SPACE	SPL = SPLICE
SYM = SYMMETRICAL	SS = STAINLESS STEEL	TYP = TYPICAL
9. GALVANIC CORROSION PROTECTION SYSTEMS, ITEMS 540.511 AND 540.512, SHALL BE PLACED AS SHOWN ON THE PLANS. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.



STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON & NEW LONDON			BRIDGE NO.	VARIOUS		STATE PROJECT	40511	
LOCATION	1-89 NORTHBOUND AND SOUTHBOUND over VARIOUS								
BRIDGE NOTES									BRIDGE SHEET
REVISIONS AFTER PROPOSAL			BY		DATE		BY		DATE
			DESIGNED		CKN		8/21		8/21
			DRAWN		SMG/GMC		4/21		CHECKED CKN 8/21
			QUANTITIES		SMG/GMC		8/21		CHECKED SMG/GMC 8/21
				ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.	
						-----		98	
				REV. DATE				TOTAL SHEETS	
								162	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/	40511 notes	AS NOTED



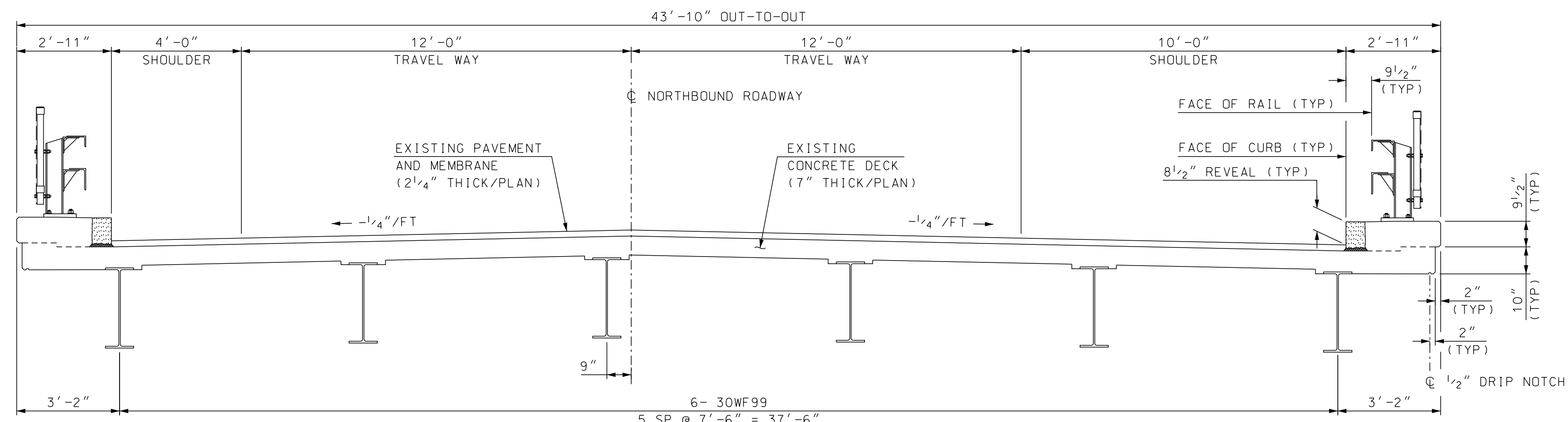
PLAN
SCALE: 1/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

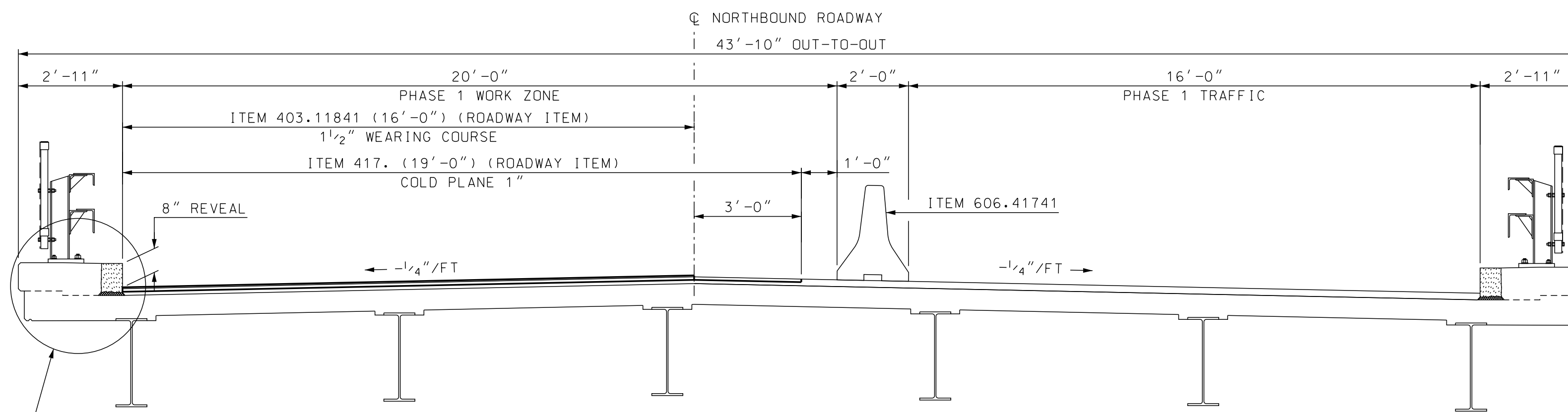
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
Hominy Pot Rd	NB085-161 Gen	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511				
LOCATION I-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR. #31)									
GENERAL PLAN BR NO 085/161								BRIDGE SHEET	
								3 OF 36	
								FILE NUMBER	
								140-3-1	
								TOTAL SHEETS	
								162	



EXISTING CROSS SECTION

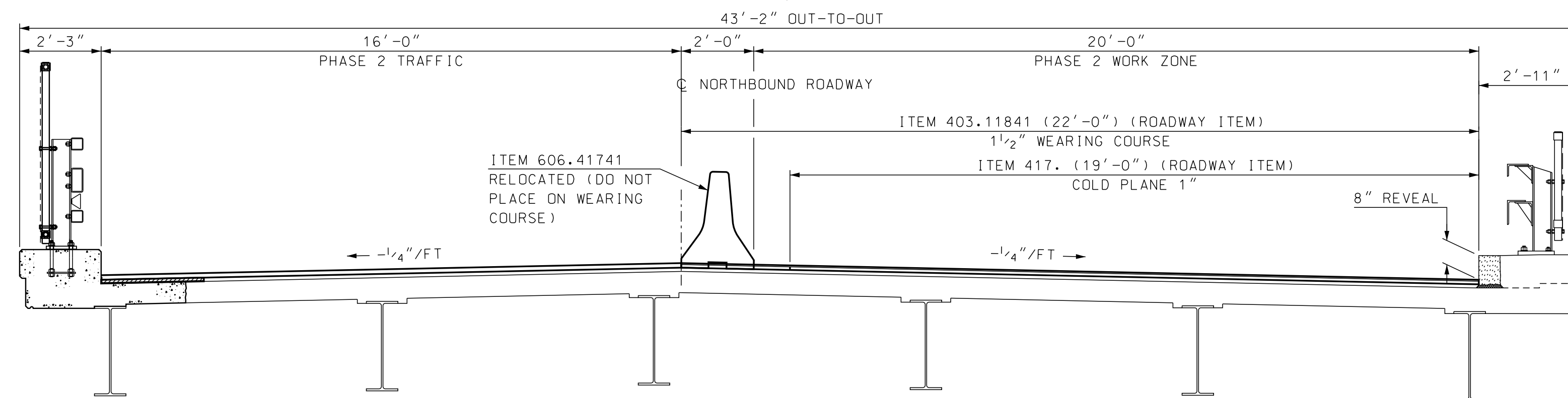
(LOOKING UPSTATION)
SCALE: 3/8" = 1'-0"



PHASE 1 CONSTRUCTION

(LOOKING UPSTATION)
SCALE: 3/8" = 1'-0"

FOR WORK TO BE PERFORMED AND ITEMS, SEE DETAIL BRIDGE SHEET 6 OF 36.



PHASE 2 CONSTRUCTION

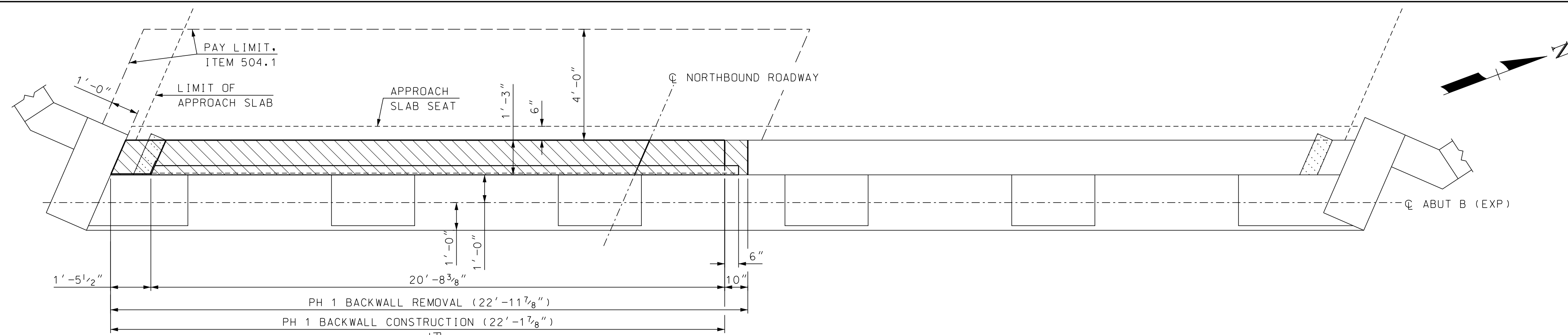
(LOOKING UPSTATION)
SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

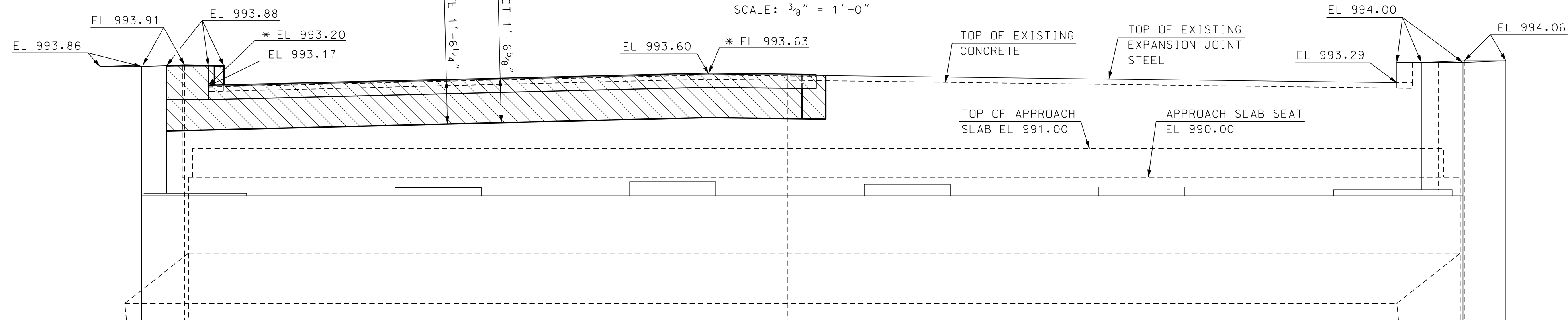
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
Hominy Pot Rd	NB085-161 Deck	AS NOTED

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511				
LOCATION I-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR. #31)									
DECK PHASING BR NO 085/161								BRIDGE SHEET	4 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	WPS	BY	DATE	FILE NUMBER	140-3-1
		DESIGNED	CKN	2/21	CHECKED	WPS	8/21	TOTAL SHEETS	162
		DRAWN	SMG/GMC	8/21	CHECKED	GMC	8/21		
		QUANTITIES	SMG	8/21	CHECKED	GMC	8/21		
		ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.			
		REV. DATE		-----		100			



PHASE 1 PLAN

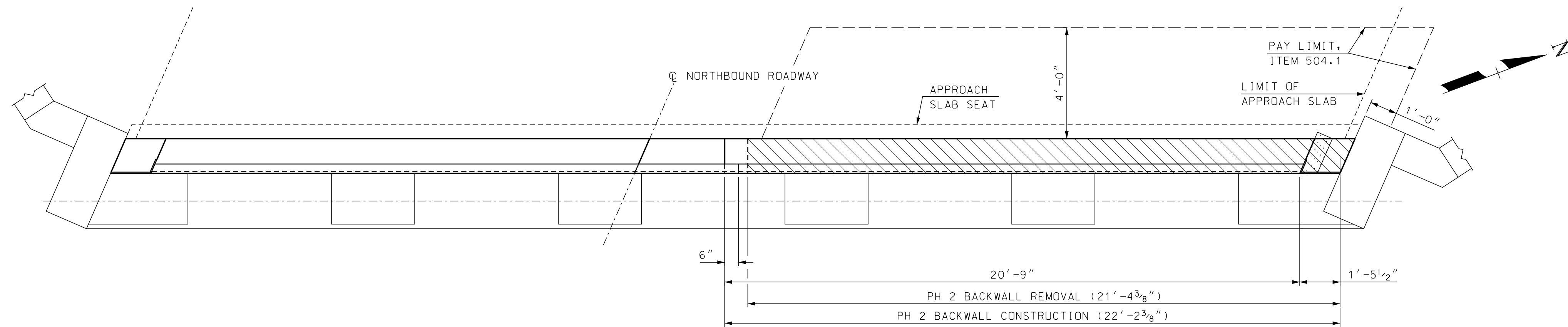
SCALE: 3/8" = 1'-0"



PHASE 1 ELEVATION

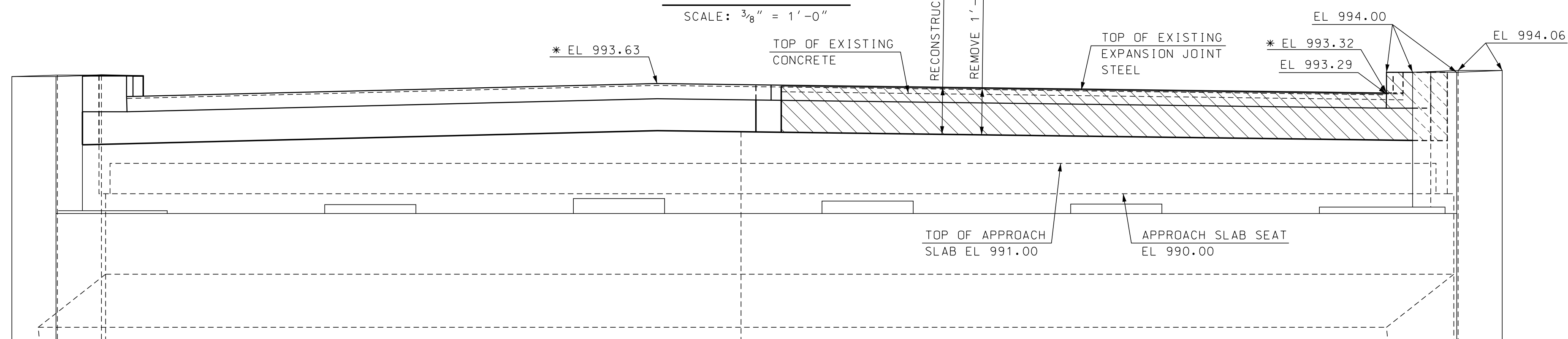
SCALE: 3/8" = 1'-0"

* = PROPOSED ELEVATION
ALL ELEVATIONS BASED ON EXISTING PLANS



PHASE 2 PLAN

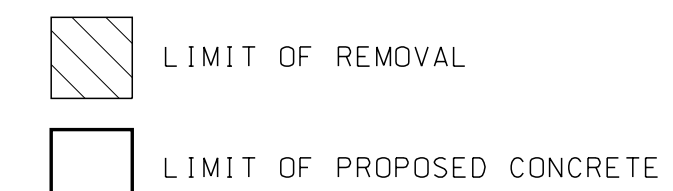
SCALE: 3/8" = 1'-0"



PHASE 2 ELEVATION

SCALE: 3/8" = 1'-0"

* = PROPOSED ELEVATION
ALL ELEVATIONS BASED ON EXISTING PLANS

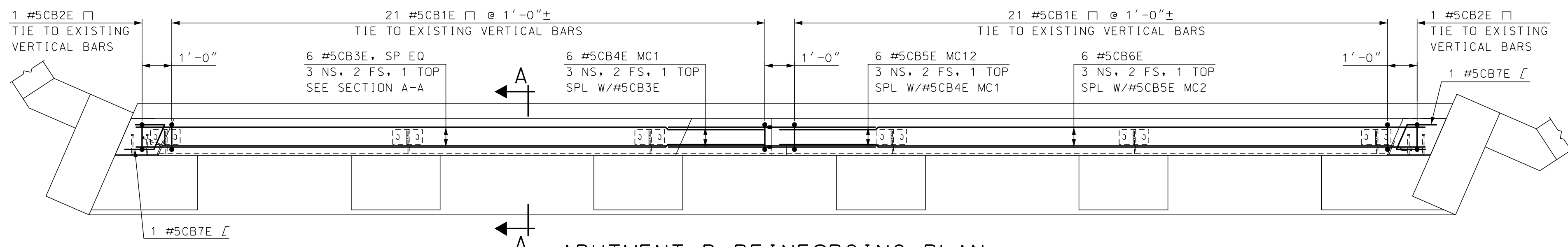


- NOTES:
- SEE SECTION A-A REMOVAL AND SECTION A-A CONSTRUCTION ON BRIDGE SHEET 6 OF 36 FOR FURTHER DETAILS.
 - ALL DIMENSIONS ARE GIVEN ALONG FACE OF BACKWALL UNLESS NOTED OTHERWISE.

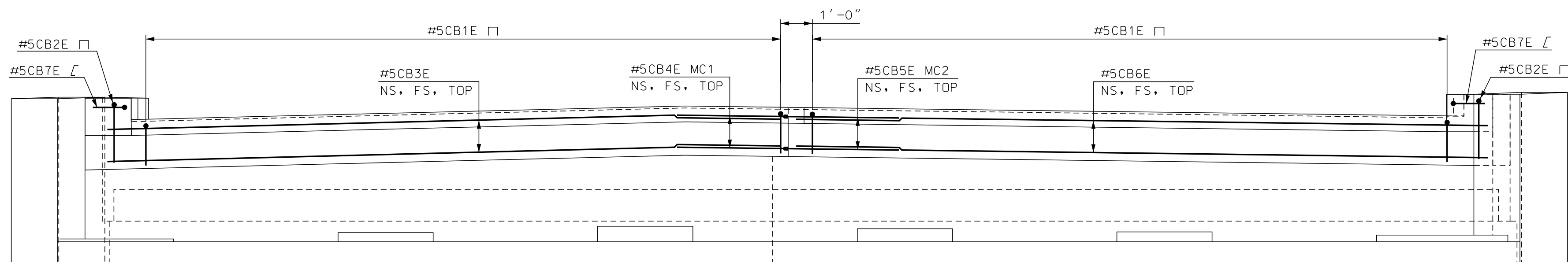
NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

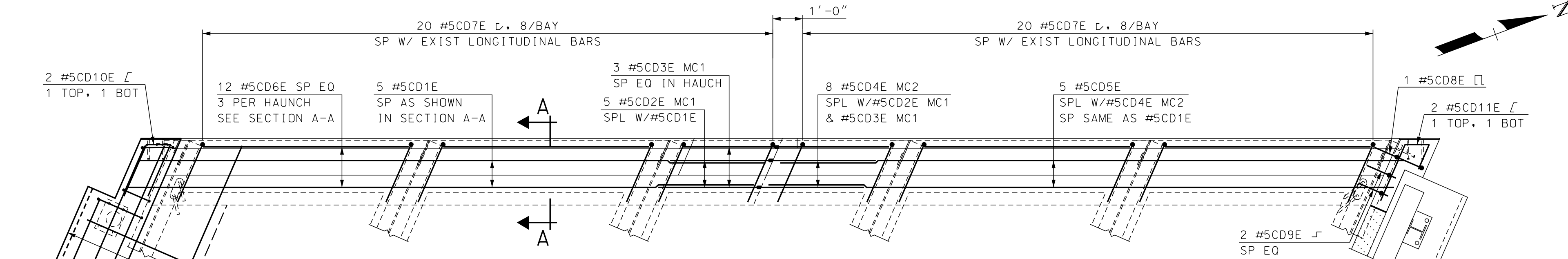
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511				
LOCATION I-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)									
ABUT B MASONRY CONSTRUCTION BR NO 085/161								BRIDGE SHEET	5 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	FILE NUMBER		
		DESIGNED	CKN	2/21	CHECKED	WPS	8/21		
		DRAWN	SMG	2/21	CHECKED	CKN	8/21		
		QUANTITIES	SMG	8/21	CHECKED	GMC	8/21		
ISSUE DATE		FEDERAL PROJECT NO.				SHEET NO.	TOTAL SHEETS		
REV. DATE		-----				101	162		
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE							
HOMINY POT RD	NB085-161 B-abut	AS NOTED							



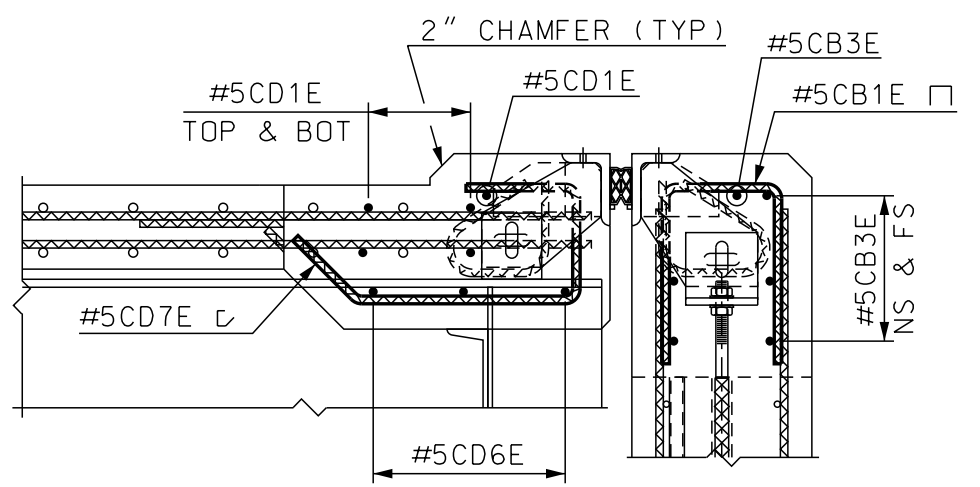
ABUTMENT B REINFORCING PLAN
SCALE: 3/8" = 1'-0"



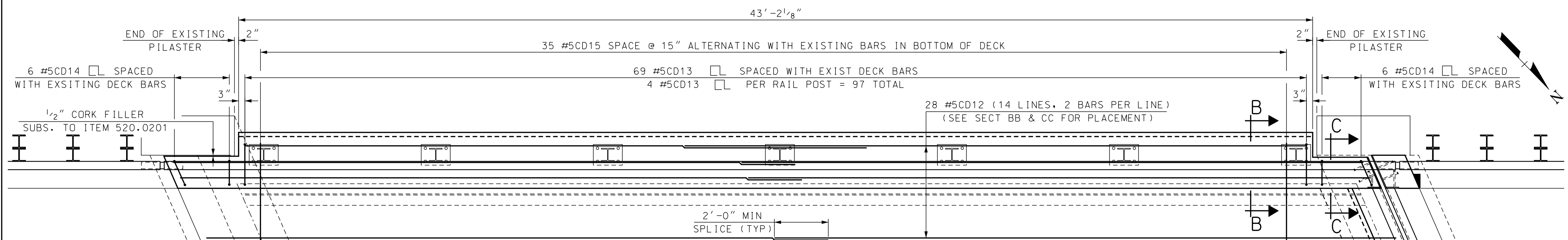
ABUTMENT B REINFORCING ELEVATION
SCALE: 3/8" = 1'-0"



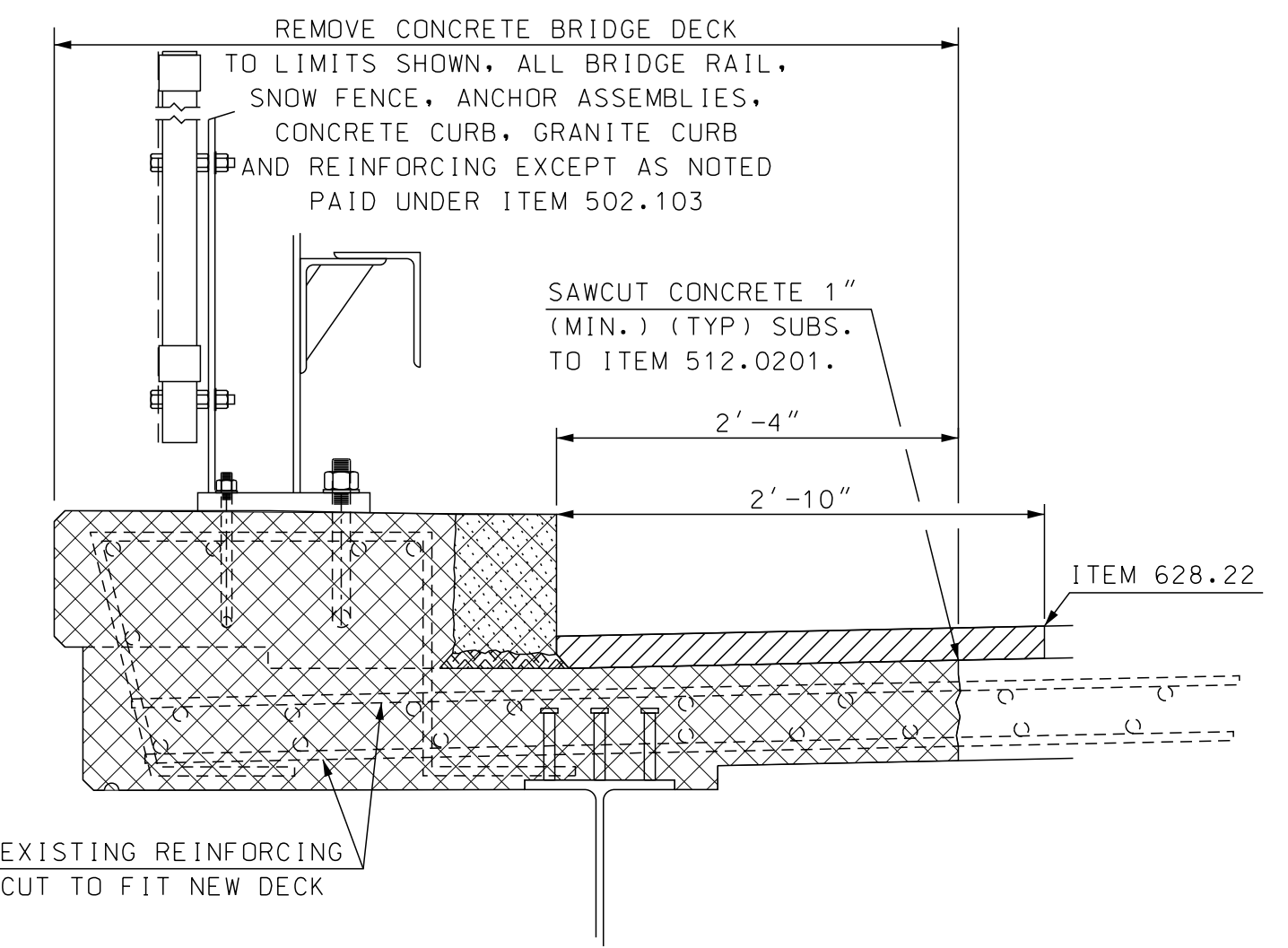
END DECK REINFORCING PLAN
SCALE: 3/8" = 1'-0"



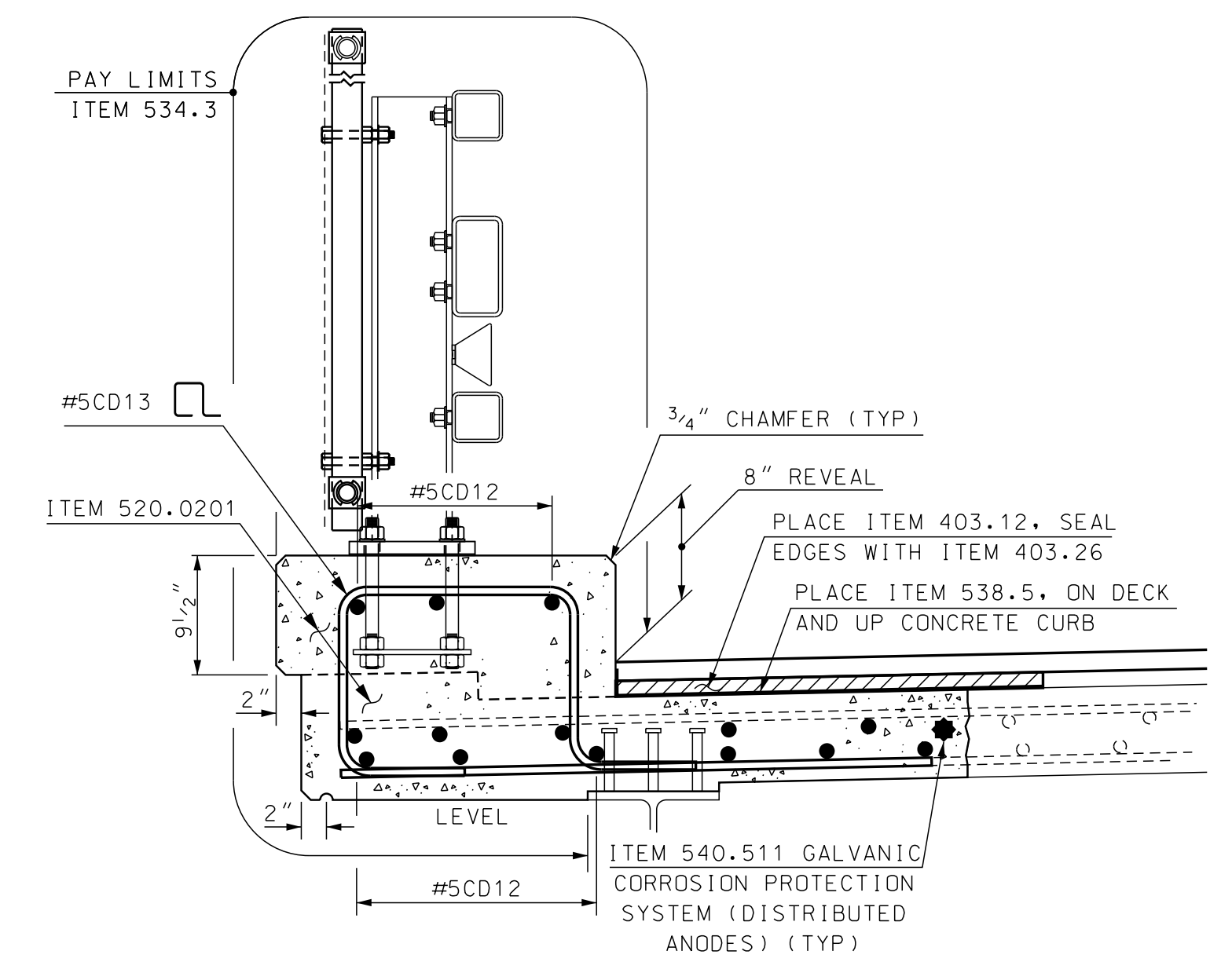
SECTION A-A
SCALE: 3/4" = 1'-0"



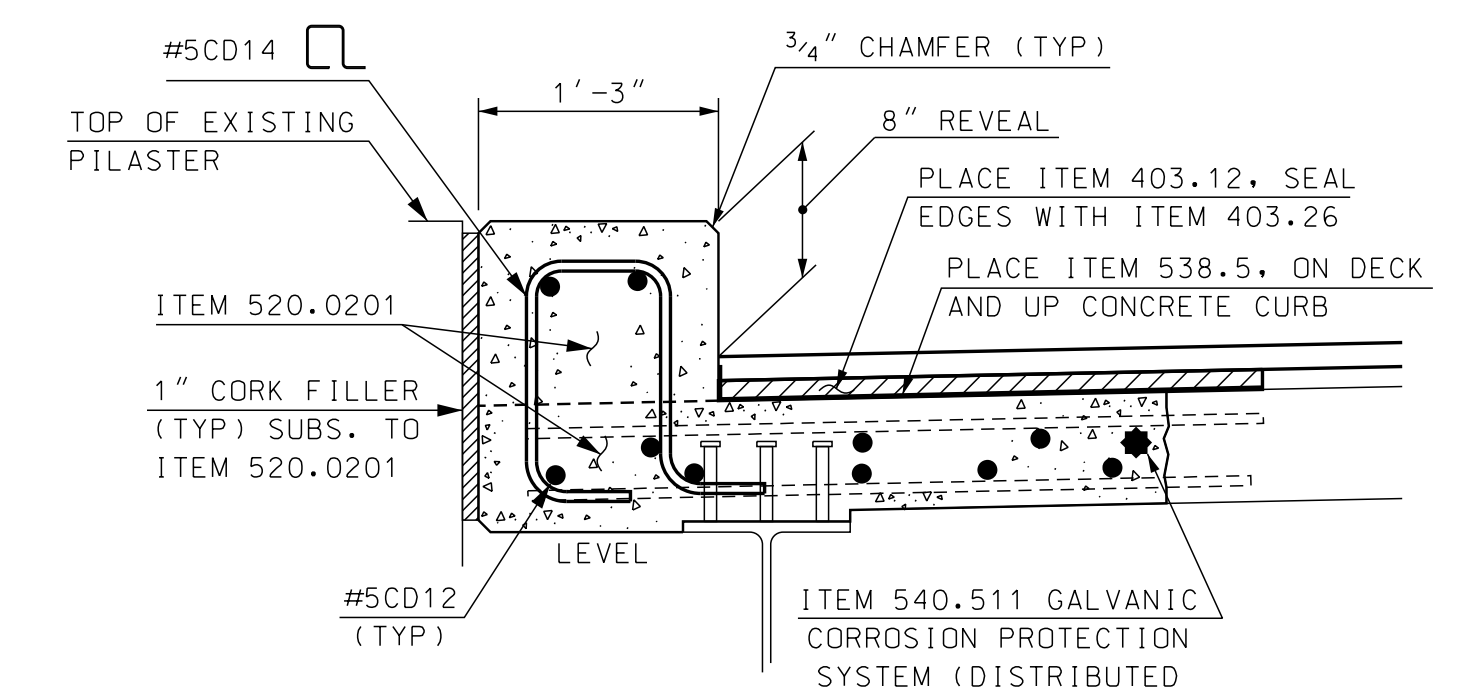
CURB/ DECK SECTION REINFORCING PLAN
SCALE: 3/8" = 1'-0"



EXISTING COPING AND CURBING REMOVAL
(NOT TO SCALE)



SECTION BB CURBING REPAIR
(NOT TO SCALE)



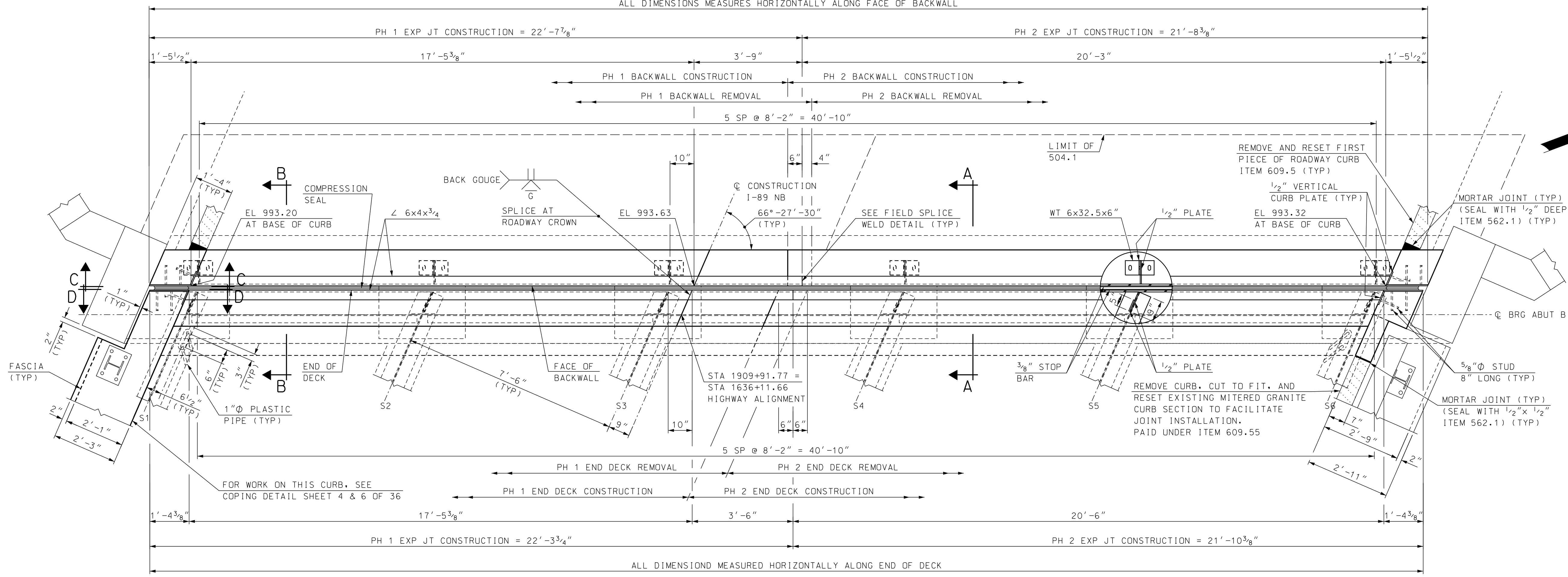
SECTION CC CURBING REPAIR
(NOT TO SCALE)

NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511
LOCATION 1-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)					
ABUT B AND DECK END REINFORCING BR NO 085/161					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					6 OF 36
DESIGNED	CKN	2/21	CHECKED	WPS	8/21
DRAWN	SMG	2/21	CHECKED	CKN	8/21
QUANTITIES	SMG	8/21	CHECKED	GMC	8/21
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			102	162

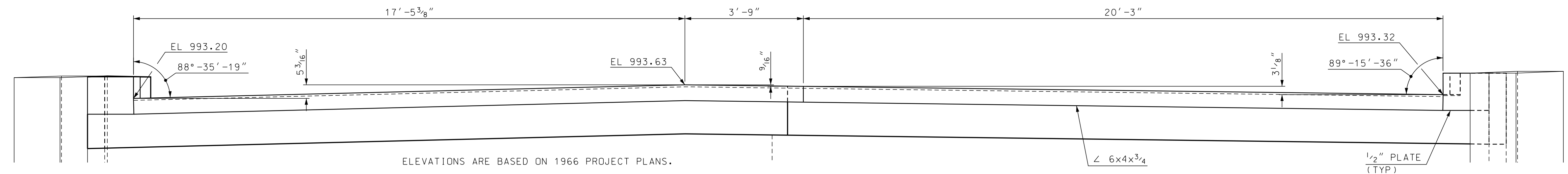
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
HOMINY POT RD	NB085-161 Rein	AS NOTED

ALL DIMENSIONS MEASURES HORIZONTALLY ALONG FACE OF BACKWALL



PLAN
SCALE: 1/2" = 1'-0"

ELEVATIONS ARE BASED ON 1966 PROJECT PLANS.



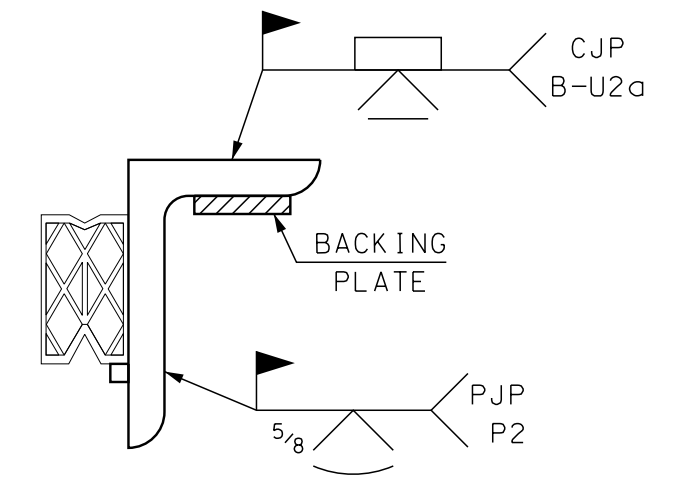
ELEVATION VIEW AT FACE OF BACKWALL

(STOP BARS NOT SHOWN)
SCALE: 1/2" = 1'-0"

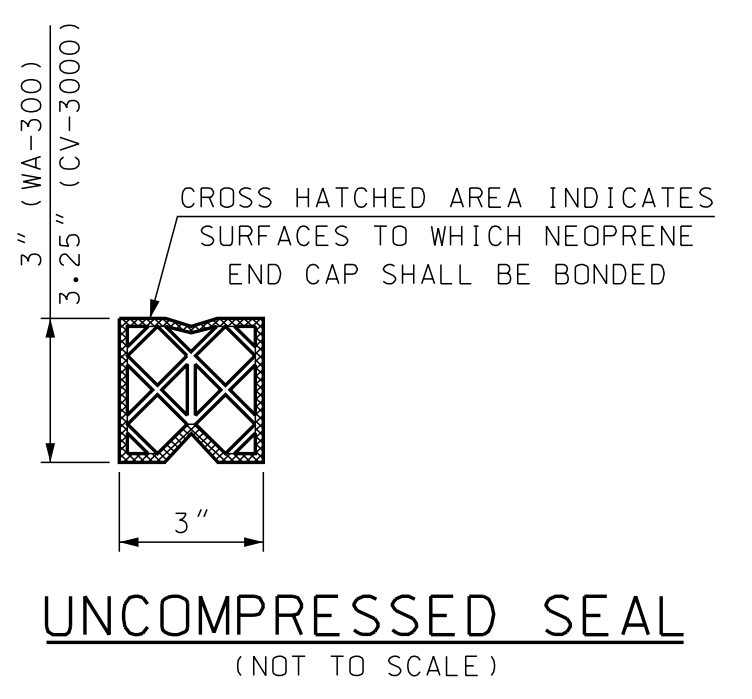
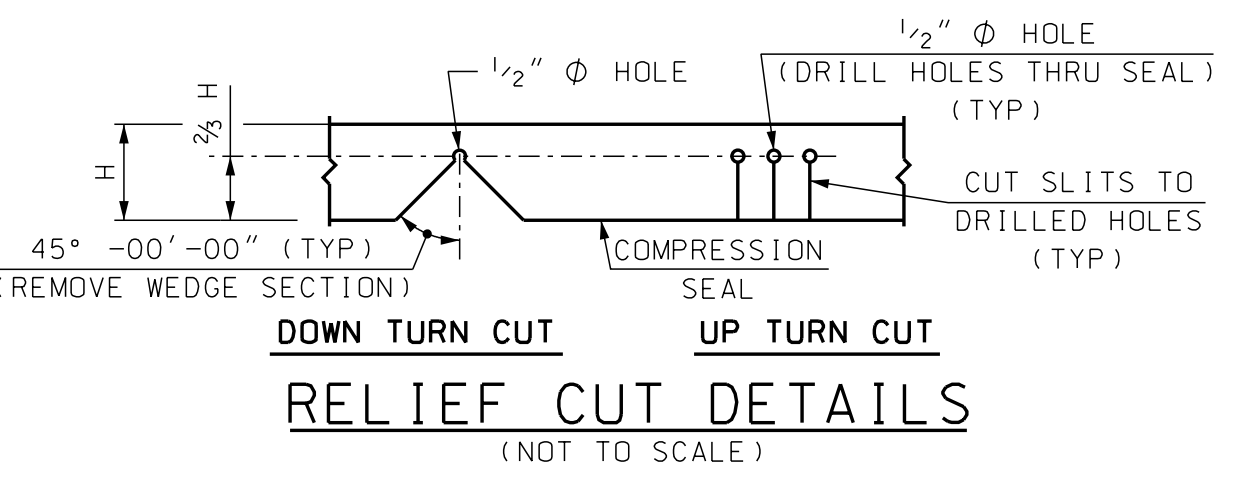
EXPANSION JOINT NOTES

- (1) ALL EXPANSION JOINT STEEL, INCLUDING ANCHORS, SHALL BE GALVANIZED. STEEL ANGLES SHALL BE AASHTO M223 (ASTM A572) GRADE 50. MINOR STEEL PLATES MAY CONFORM TO AASHTO M183 (ASTM A36). THE ENTIRE ASSEMBLY, INCLUDING COMPRESSION SEAL, SHALL BE PAID FOR AS ITEM 560.1001, PREFABRICATED COMPRESSION SEAL EXPANSION JOINT (F).
- (2) SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.
- (3) THE EXPANSION JOINT OPENING SHALL BE PRESET TO TEMPERATURE ANTICIPATED PRIOR TO POURING DECK BLOCKOUT. FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE CONTRACT ADMINISTRATOR. SEE TEMPERATURE ADJUSTMENT TABLE & NOTES ON BRIDGE SHEET 8.
- (4) THE COMPRESSION 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.
- (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 SHALL BE ASSEMBLED WITH A CONSTANT JOINT OPENING TO ENSURE PROPER PERFORMANCE AND WATER TIGHTNESS.
- (6) IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL, REMOVE SHIPPING DEVICES AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION 550.2.
- (7) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
- (8) THE COMPRESSION SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF 0.53 INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE A WA-300 SEAL BY WATSON BOWMAN OR CV-3000 BY D.S. BROWN.
- (9) ELEVATIONS SHOWN AT TOP OF ANGLES ARE 1/8" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.
- (10) ANGLES 6"x 4"x 3/4" SHALL BE UTILIZED FOR SEALS LESS THAN 5" (HEIGHT). FOR SEALS GREATER THAN OR EQUAL TO 5" (HEIGHT) STEEL ANGLES SHALL BE 8"x 4"x 3/4".
- (11) STEEL ANGLES AND STOP BARS SHALL BE MAINTAINED FREE FROM DIRT, WATER AND ANY OTHER LOOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL BE TAKEN NOT TO DAMAGE GALVANIZED SURFACES.
- (12) A TEMPORARY SEAL(S) SHALL BE INSTALLED PRIOR TO THE START OF THE WINTER MAINTENANCE PERIOD FOR ALL JOINT ASSEMBLIES OR PORTIONS THEREOF THAT WILL BE IN PLACE THROUGHOUT THE WINTER. ALL TEMPORARY SEALS SHALL BE REMOVED AND JOINT OPENINGS AND SUBSTRUCTURE SHALL BE CLEANED PRIOR TO INSTALLING THE FINAL SEAL. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 560.1001.
- (13) FOR SECTIONS A-A THROUGH D-D SEE BRIDGE SHEET 8.

FIELD SPLICE WELD DETAIL - COMPRESSION SEAL



SCALE: 3" = 1'-0"

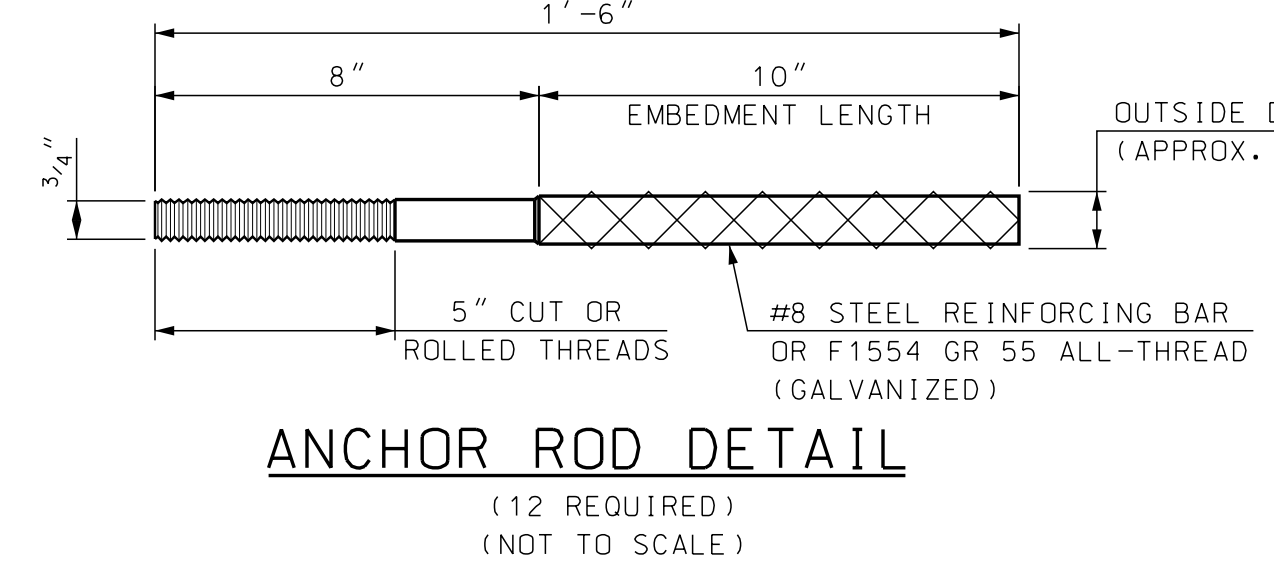
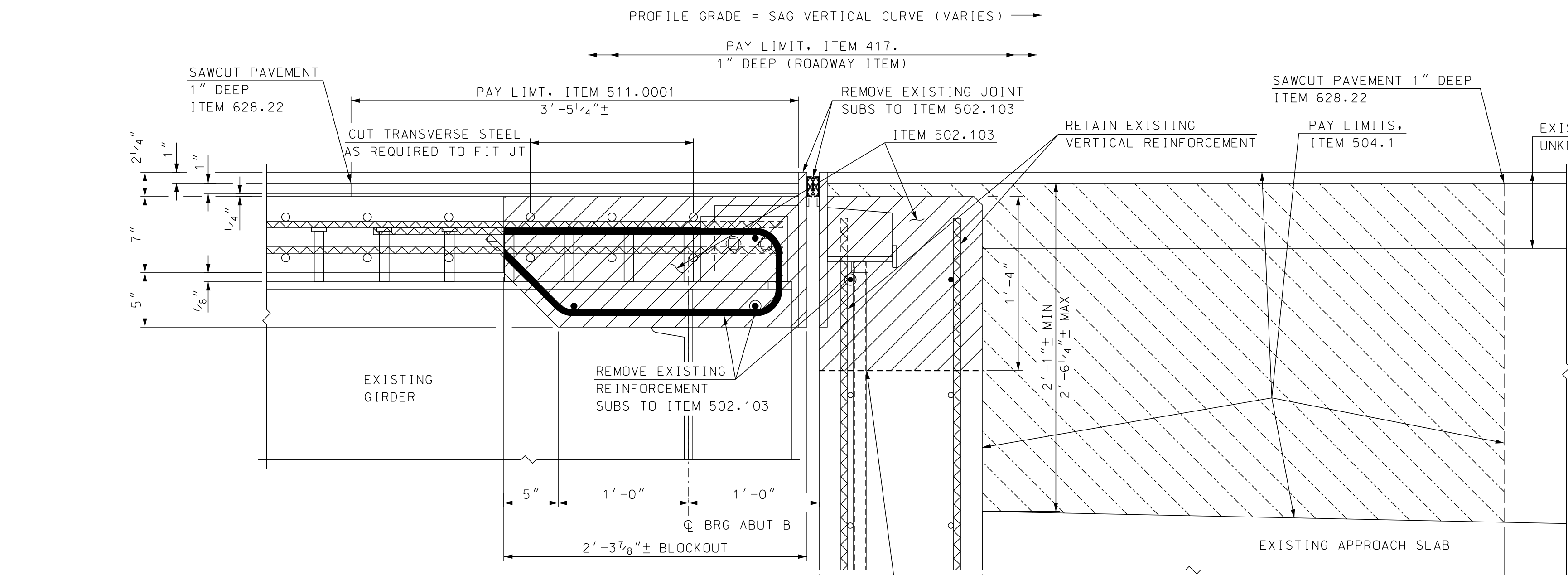


NHDOT Bridge Design
9/24/21

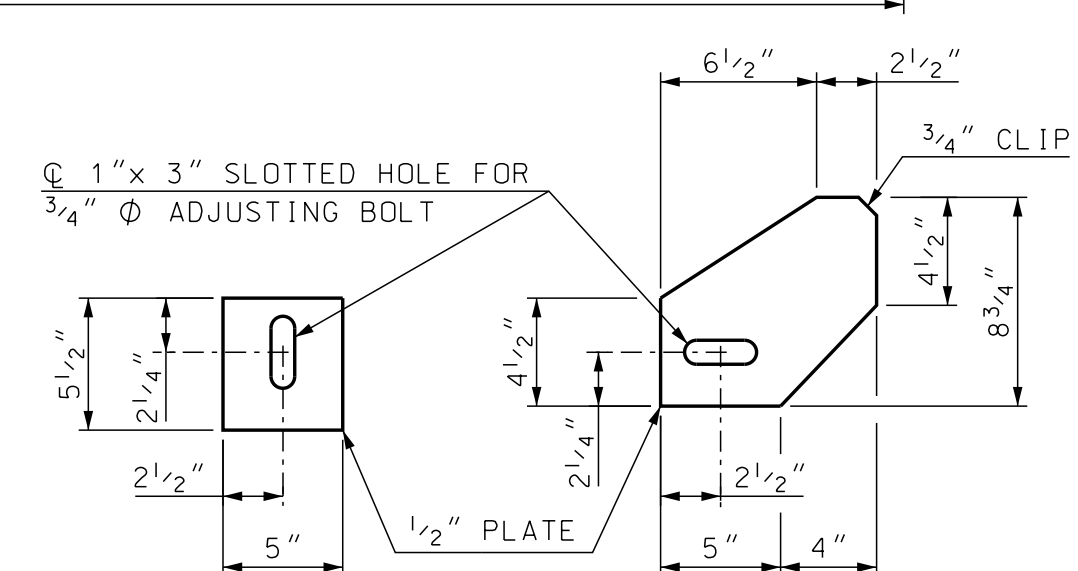
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511
LOCATION 1-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)					
COMPRESSION JOINT BR NO 085/161 (1 OF 2)					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					7 OF 36
DESIGNED	CKN	2/21	CHECKED	WPS	8/21
DRAWN	SMG	2/21	CHECKED	CKN	8/21
QUANTITIES	SMG	8/21	CHECKED	GMC	8/21
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			103	162

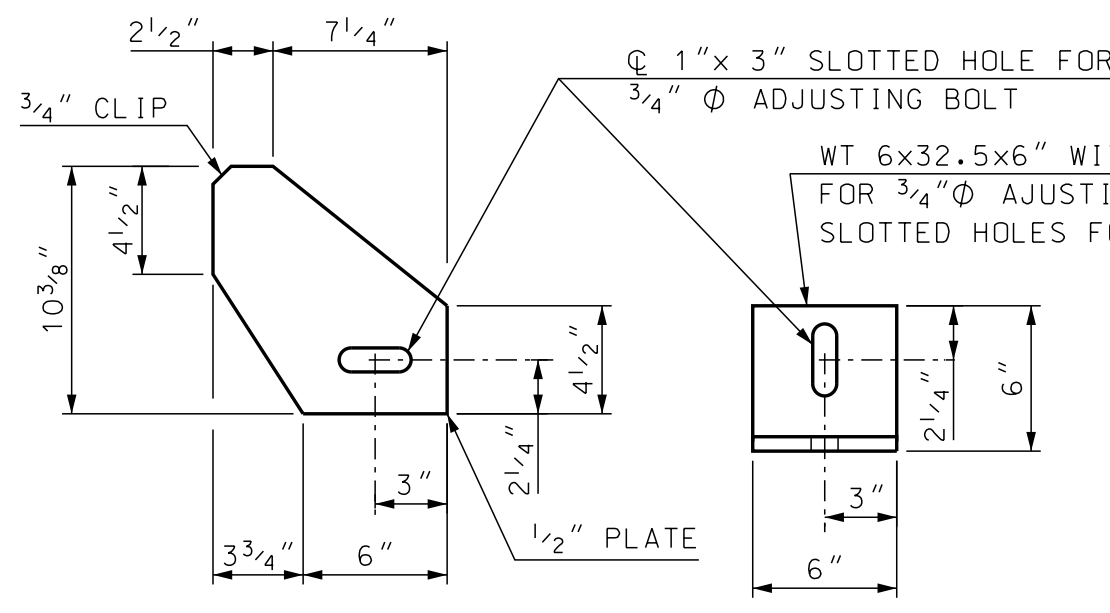
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
HOMINY POT RD	NB085-161 Comp jt	AS NOTED



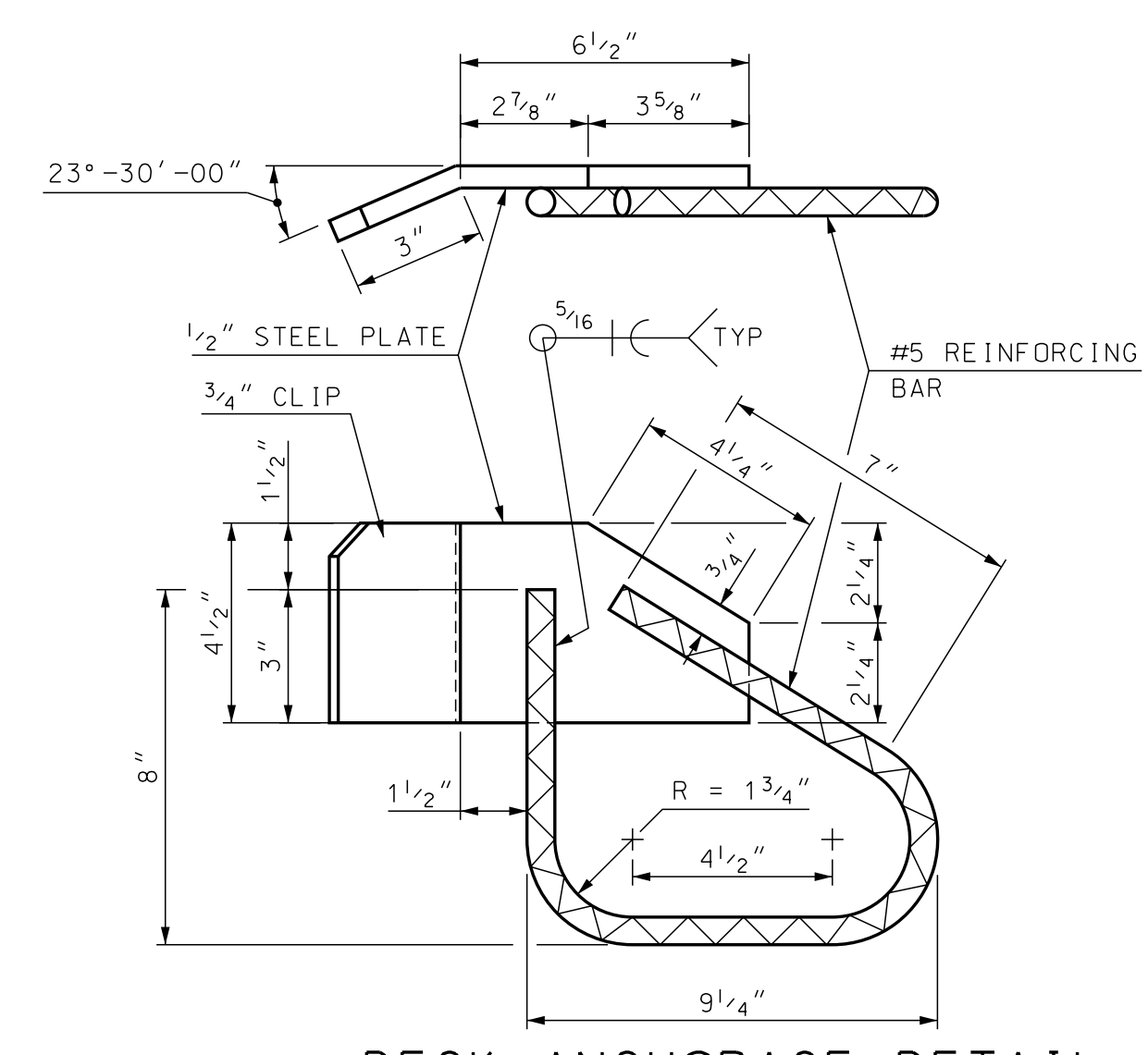
SECTION A-A REMOVAL
SCALE: 1 1/2" = 1'-0"



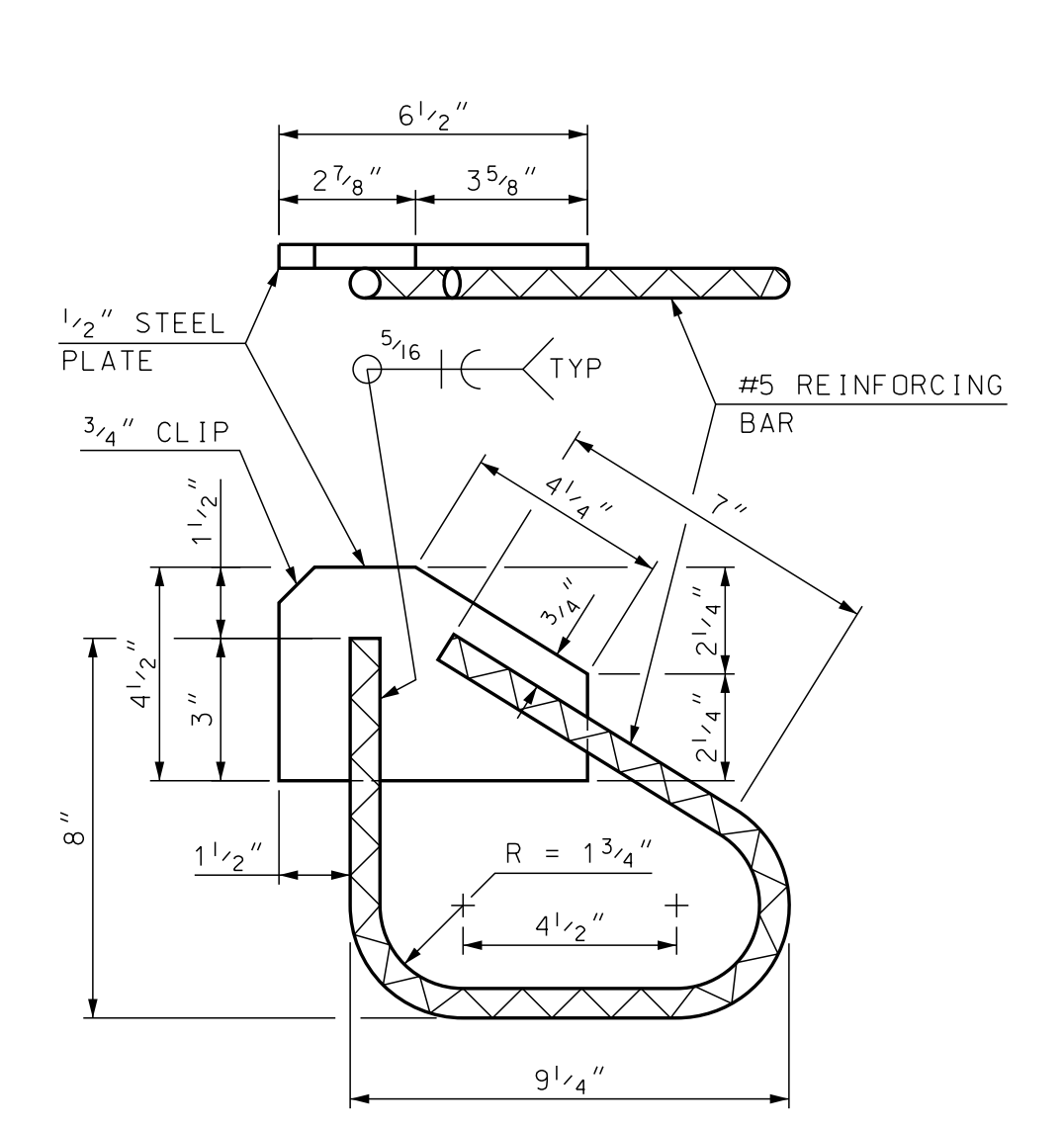
DECK SIDE SUPPORT
SCALE: 1 1/2" = 1'-0"



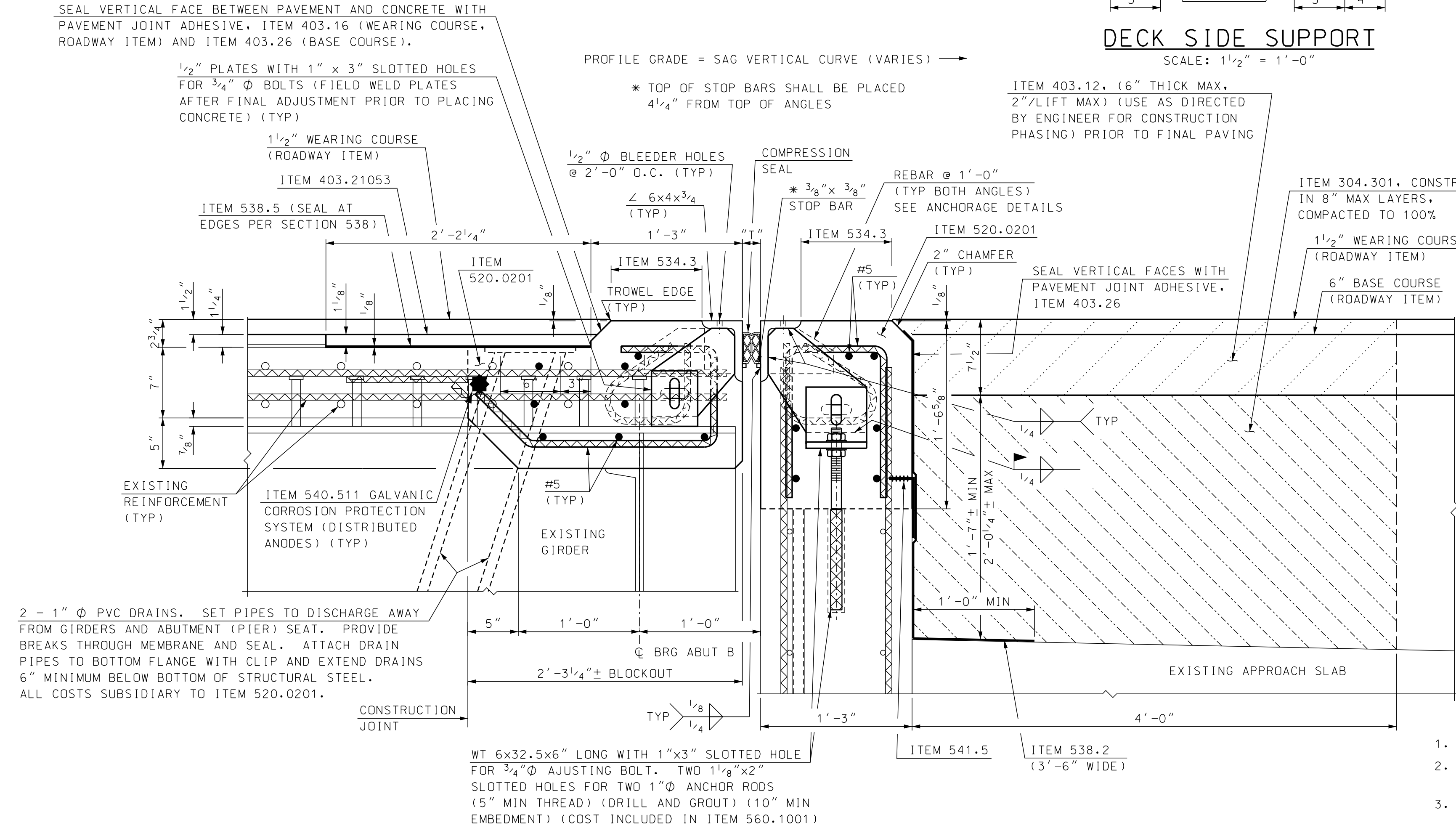
BACKWALL SIDE SUPPORT
SCALE: 1 1/2" = 1'-0"



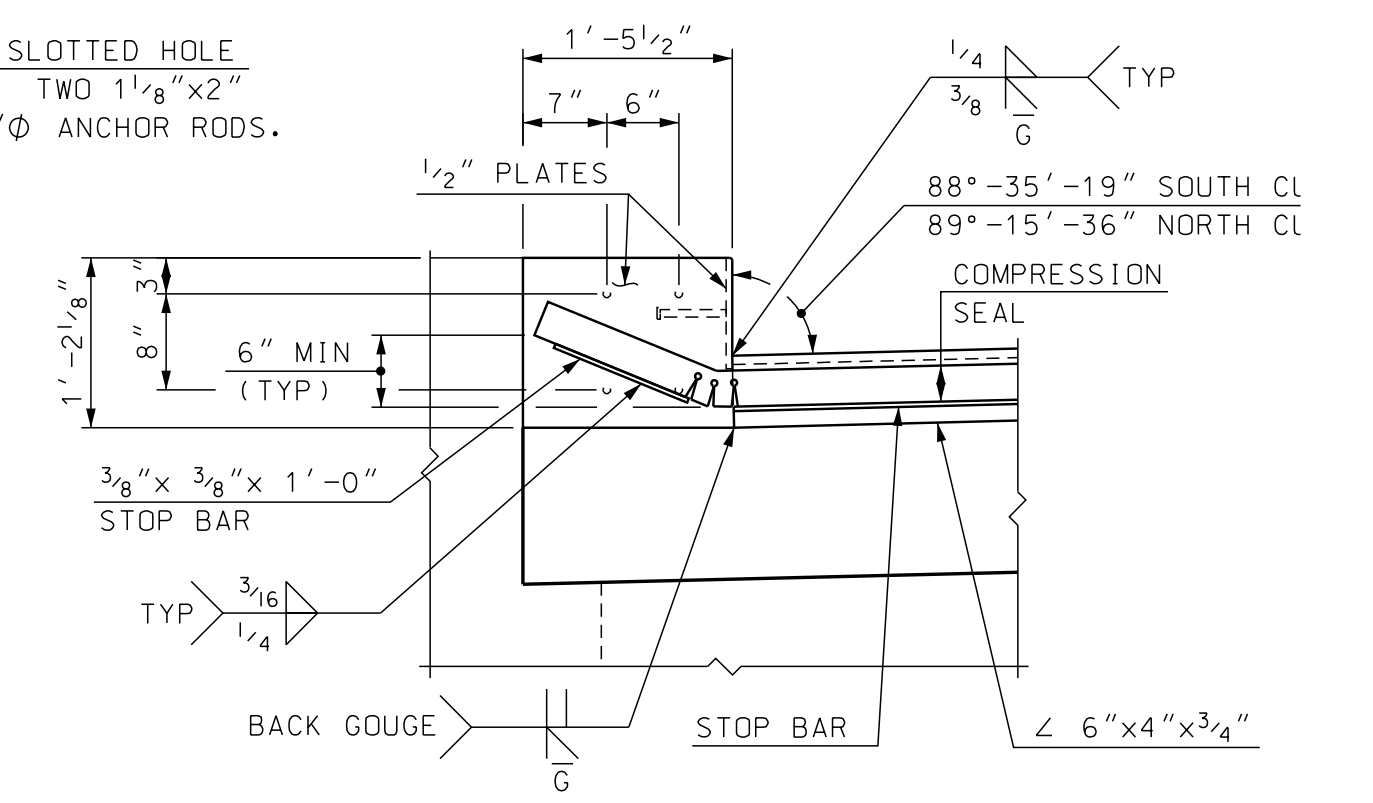
DECK ANCHORAGE DETAIL
SCALE: 3" = 1'-0"



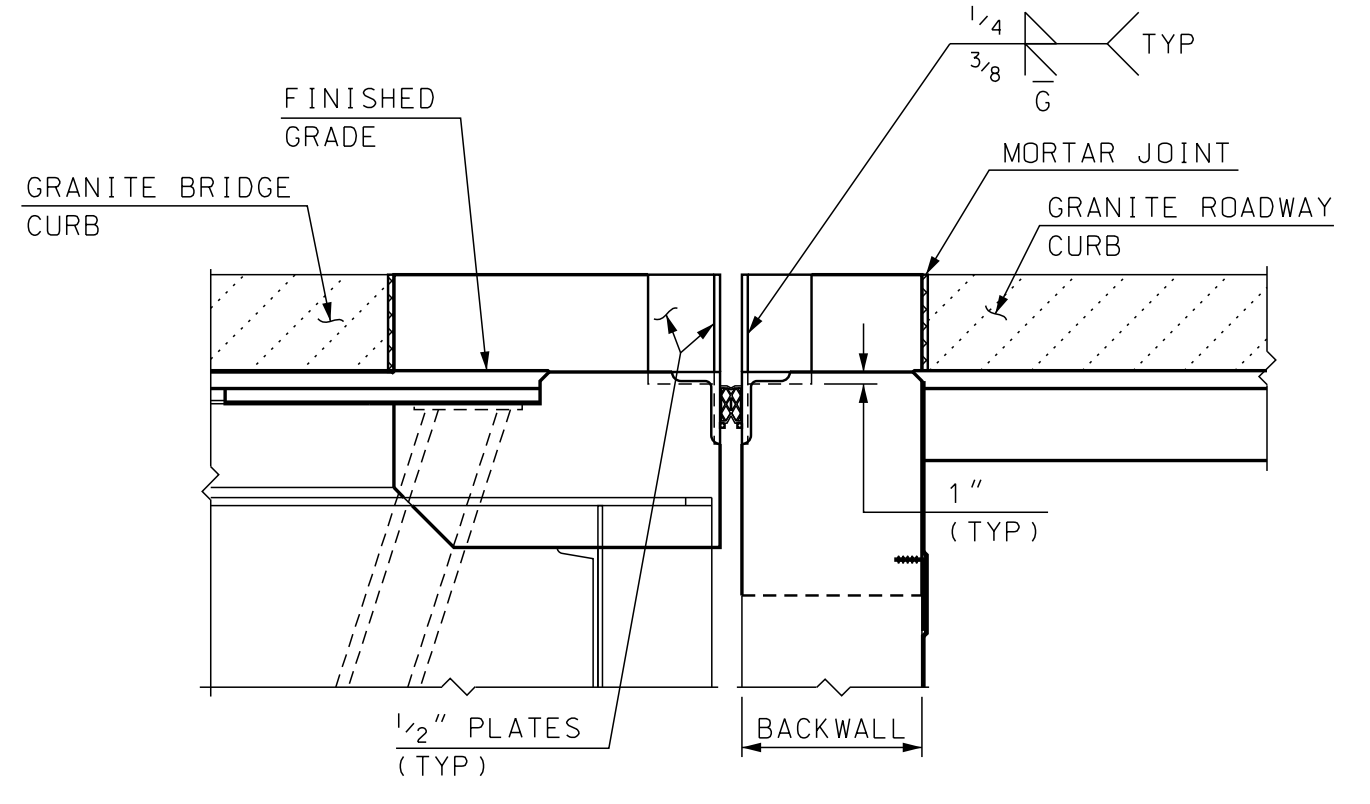
BACKWALL ANCHORAGE DETAIL
SCALE: 3" = 1'-0"



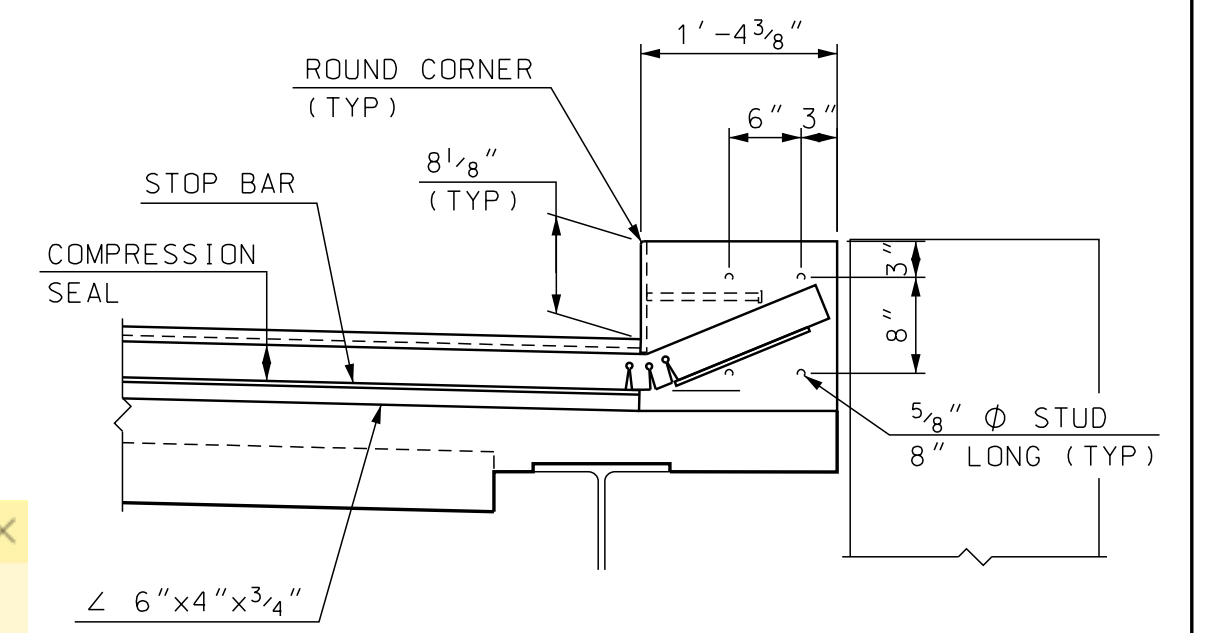
SECTION A-A CONSTRUCTION
SCALE: 1 1/2" = 1'-0"



SECTION C-C
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



SECTION D-D
SCALE: 3/4" = 1'-0"

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	1 7/8"
35°F	1 7/8"
50°F	1 13/16"
65°F	1 3/4"
80°F	1 11/16"
95°F	1 5/8"

TEMPERATURE ADJUSTMENT NOTES

- "T" DIMENSIONS ARE PERPENDICULAR TO FACE OF BACKWALL.
- MINIMUM "T" WIDTH FOR SEAL INSTALLATION = 1 13/16" (APPROXIMATELY 65°F OR LESS).
- VALUES IN THE TEMPERATURE ADJUSTMENT TABLE ARE FOR SETTING THE EXPANSION JOINT ASSEMBLY IMMEDIATELY PRIOR TO POURING CONCRETE BLOCKOUTS.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
HOMINY POT RD	NB085-161 Comp jt	AS NOTED

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current. Closely review before using details.

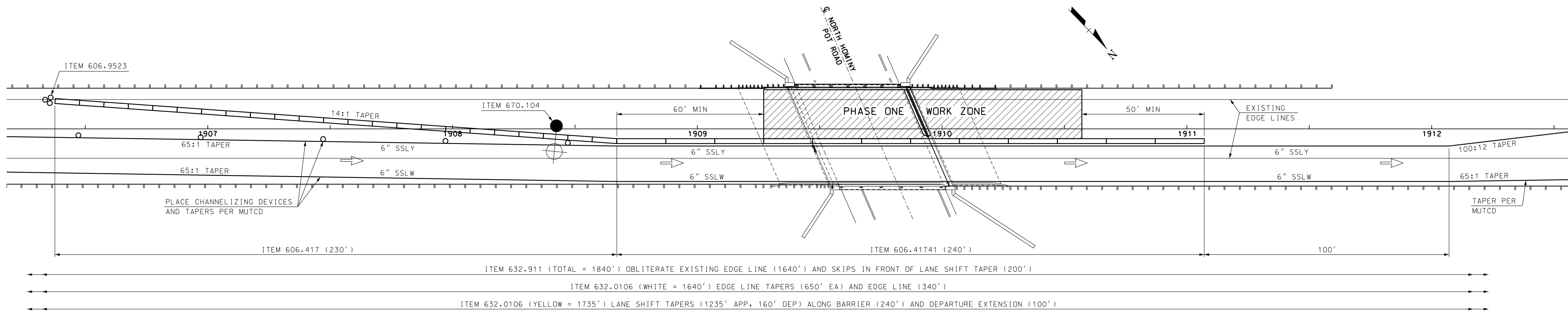
STATE OF NEW HAMPSHIRE
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN

TOWN SUTTON BRIDGE NO. 085/161 STATE PROJECT 40511

COMPRESSION JOINT BR NO 085/161 (2 OF 2)

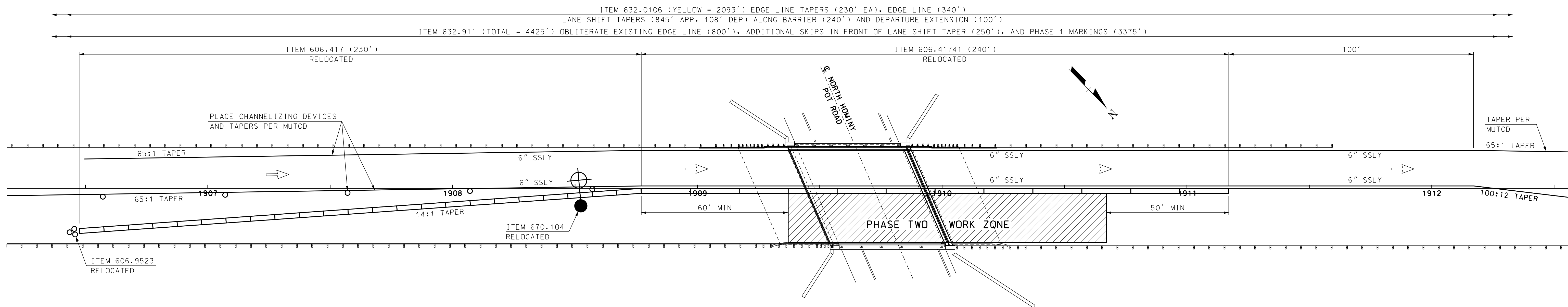
DESIGNED	CKN	2/21	CHECKED	WPS	8/21
DRAWN	SMG	2/21	CHECKED	CKN	8/21
QUANTITIES	SMG	8/21	CHECKED	GMC	8/21

BRIDGE SHEET 8 OF 36
FILE NUMBER 140-3-1
TOTAL SHEETS 162



PHASE 1 BARRIER LAYOUT

SCALE: 1" = 20'



PHASE 2 BARRIER LAYOUT

SCALE: 1" = 20'

PHASE 3 NOTES

- RESTORE PAVEMENT MARKINGS TO ORIGINAL LAYOUT.
- ITEM 632.911 (TOTAL = 3375') OBLITERATE PHASE 2 MARKINGS (3375')
- ITEM 632.0106 (WHITE = 2090') RIGHT EDGE LINE (1640') AND SKIPS (450')
- ITEM 632.0106 (YELLOW = 800') LEFT EDGE LINE (800')

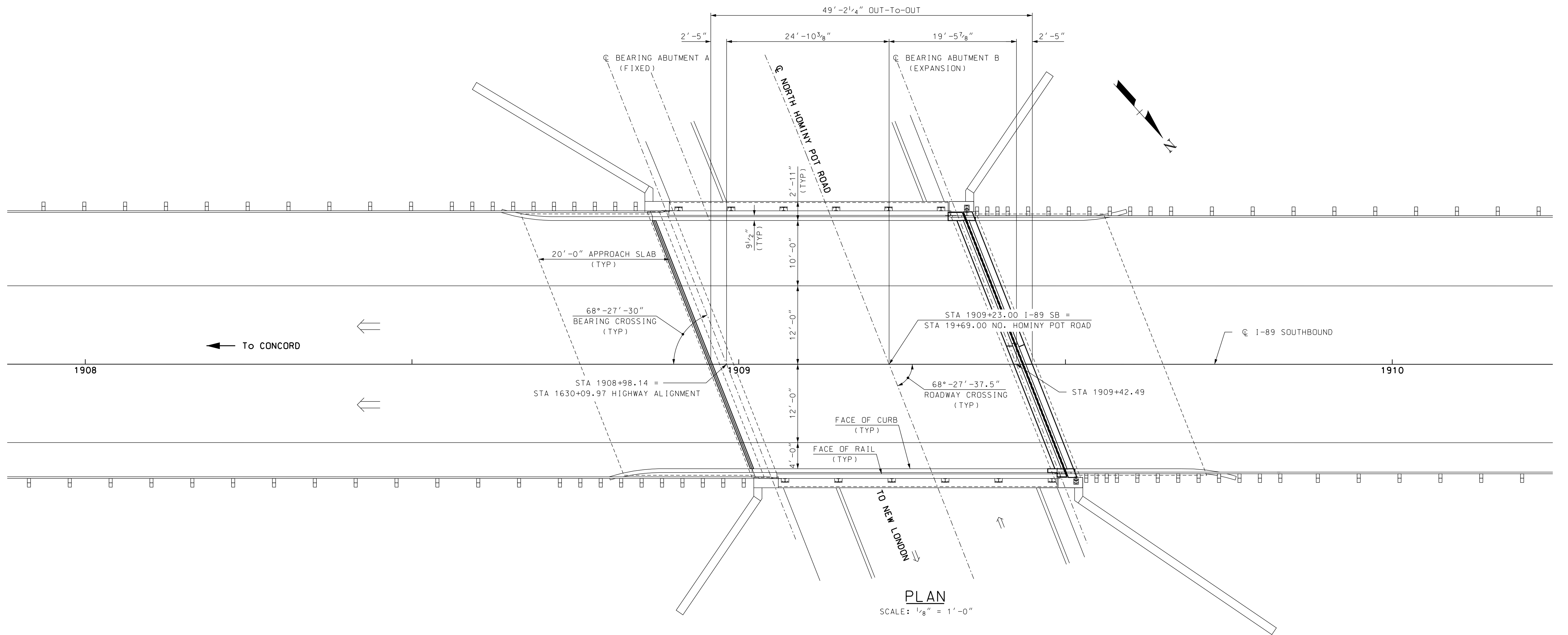
ALL RELOCATED QUANTITIES ARE SUBSIDIARY TO THE ITEM REFERENCED

NOTE:
CHANNELIZING DEVICES NOT SHOWN.
SEE THE MUTCD 2009 EDITION AND
NHDOT WORK ZONE TRAFFIC CONTROL
STANDARD PLANS FOR LAYOUT.

NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
HOMINY POT RD	NB085-161 Traffic	AS NOTED

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511
LOCATION 1-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)					
BARRIER LAYOUT BR NO 085/161					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					9 OF 36
DESIGNED	CKN	3/21	CHECKED	WPS	8/21
DRAWN	SMG	3/21	CHECKED	CKN	8/21
QUANTITIES	SMG	8/21	CHECKED	GMC	8/21
ISSUE DATE			FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
REV. DATE			-----	105	162



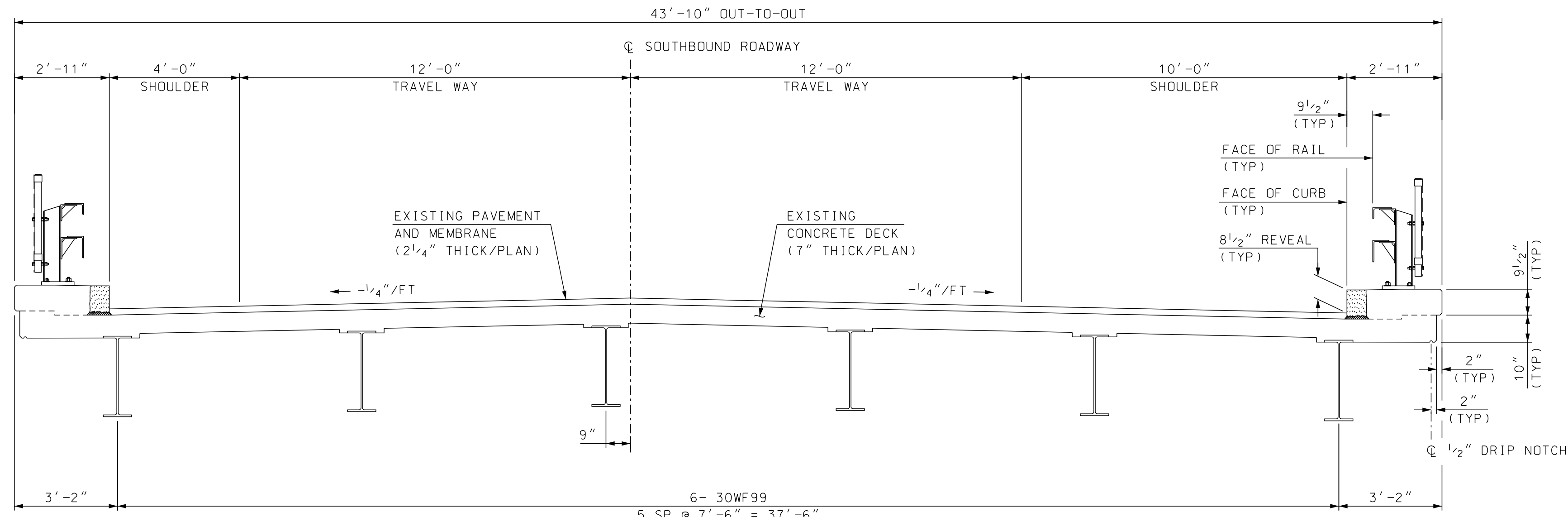
PLAN
SCALE: 1/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details.

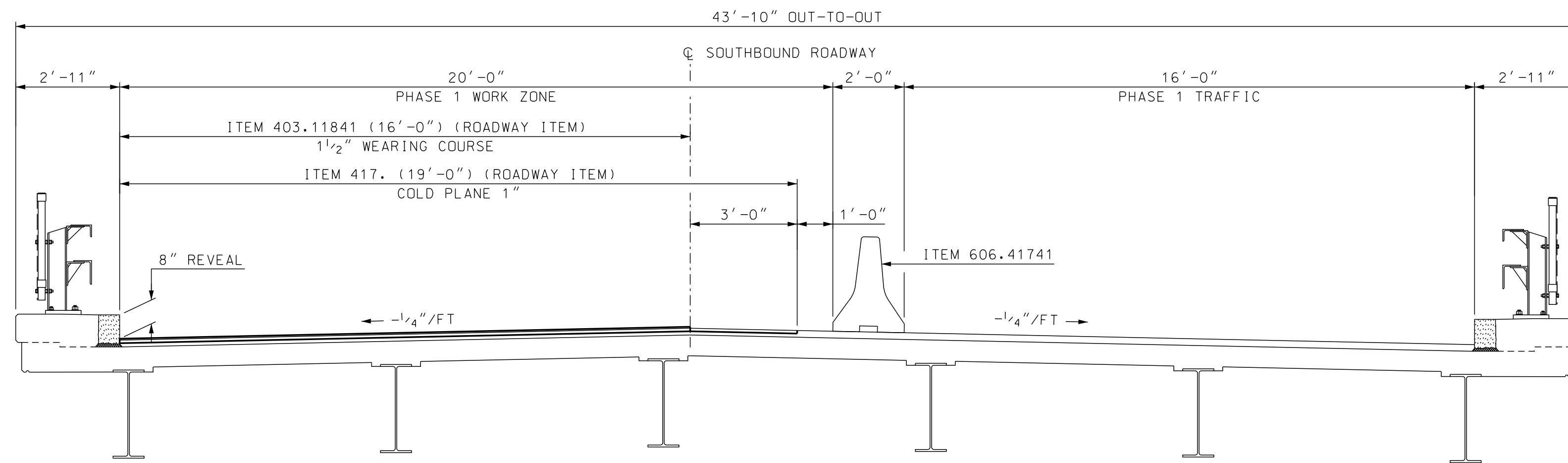
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
Hominy Pot Rd	SB084-160 Gen	AS NOTED

STATE OF NEW HAMPSHIRE										
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
TOWN	SUTTON	BRIDGE NO.	084/160	STATE PROJECT	40511					
LOCATION I-89 SOUTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR. #31)										
GENERAL PLAN BR NO 084/160								BRIDGE SHEET		
REVISIONS AFTER PROPOSAL								BY	DATE	10 OF 36
DESIGNED CKN								8/21	CHECKED WPS	8/21
DRAWN PJP								10/07	CHECKED CKN	8/21
QUANTITIES SMG								8/21	CHECKED GMC	8/21
ISSUE DATE								FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
REV. DATE								-----	106	162



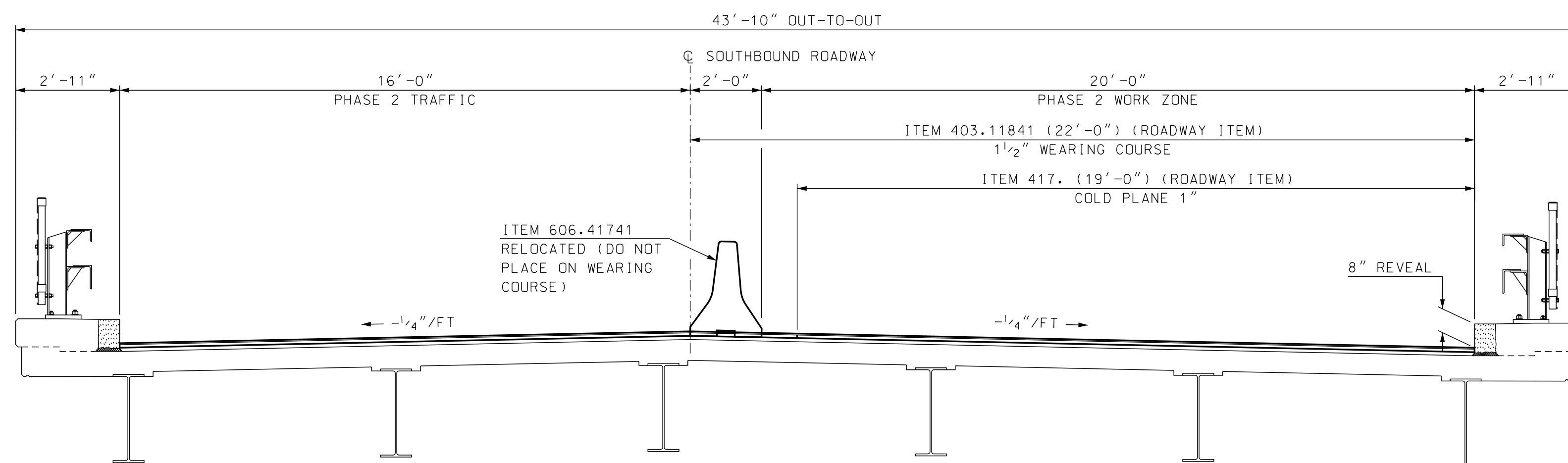
EXISTING CROSS SECTION

(LOOKING DOWNSTATION)
SCALE: 3/8" = 1'-0"



PHASE 1 CONSTRUCTION

(LOOKING DOWNSTATION)
SCALE: 3/8" = 1'-0"



PHASE 2 CONSTRUCTION

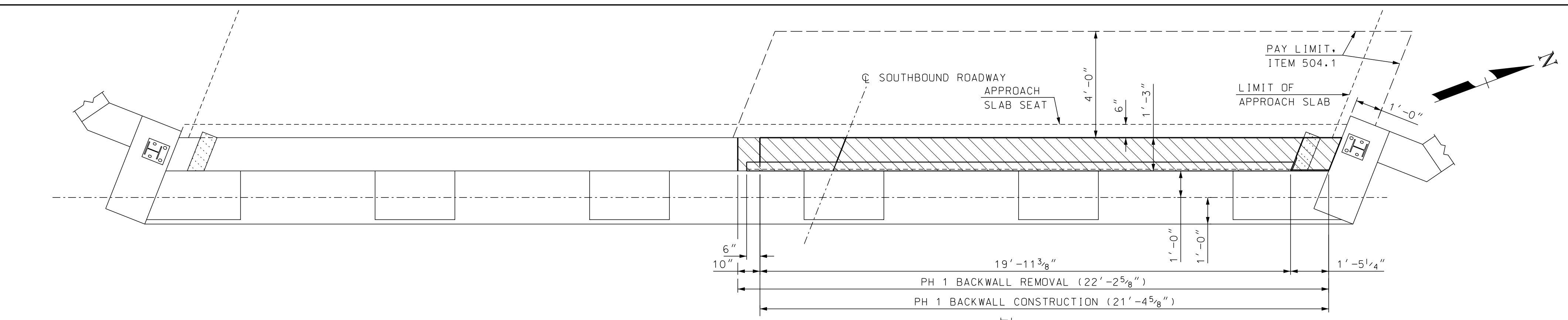
(LOOKING DOWNSTATION)
SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

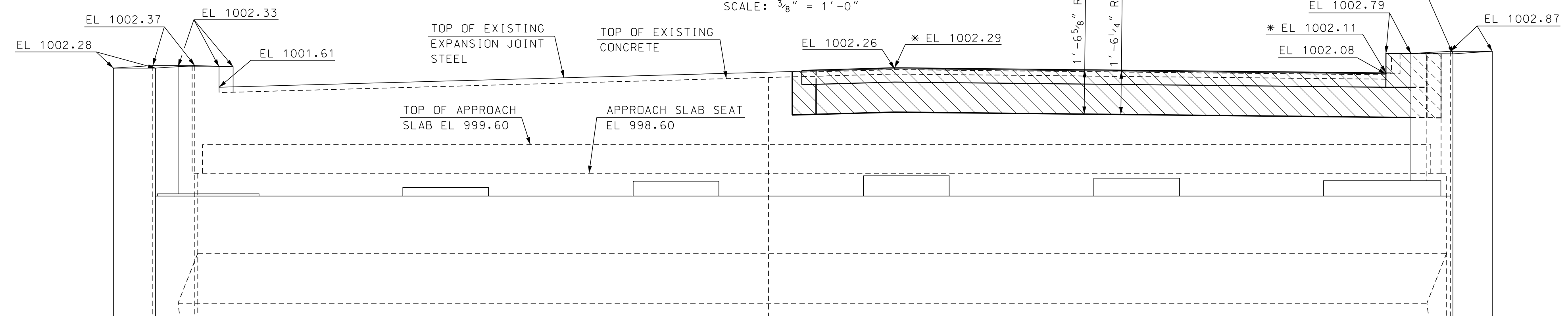
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON	BRIDGE NO.	084/160	STATE PROJECT	40511				
LOCATION I-89 SOUTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR. #31)									
DECK PHASING BR NO 084/160									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	WPS	BY	DATE	BRIDGE SHEET	11 OF 36
		DESIGNED	CKN	2/21	8/21	CHECKED	WPS	8/21	FILE NUMBER
		DRAWN	SMG	2/21	8/21	CHECKED	CKN	8/21	140-3-1
		QUANTITIES	SMG	8/21	8/21	CHECKED	GMC	8/21	TOTAL SHEETS
		ISSUE DATE		FEDERAL PROJECT NO.			SHEET NO.	107	162
		REV. DATE		-----					
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE							
Hominy Pot Rd	SB084-160 Deck	AS NOTED							

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE	
Hominy Pot Rd	SB084-160 Deck	AS NOTED	



PHASE 1 PLAN

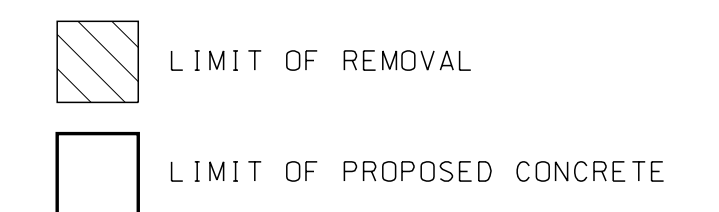
SCALE: 3/8" = 1'-0"



PHASE 1 ELEVATION

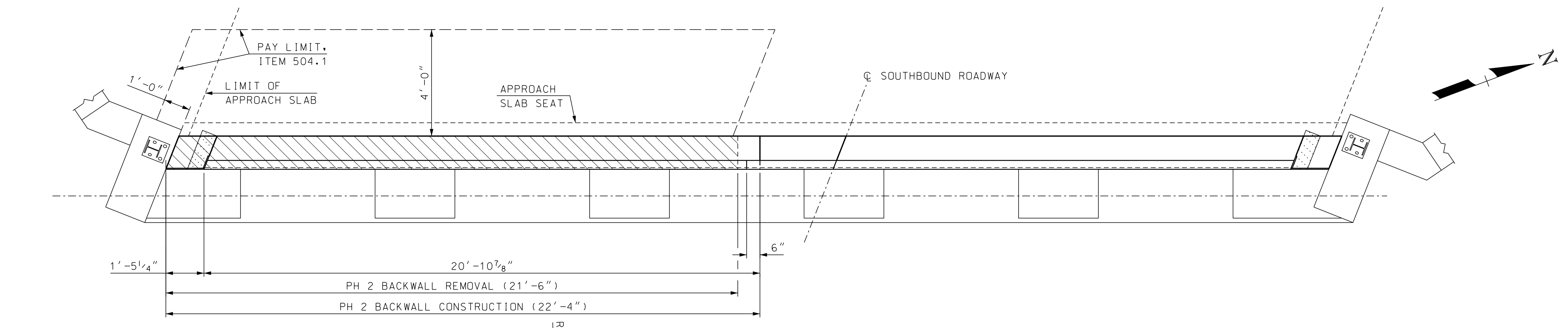
SCALE: 3/8" = 1'-0"

* = PROPOSED ELEVATION
ALL ELEVATIONS BASED ON EXISTING PLANS



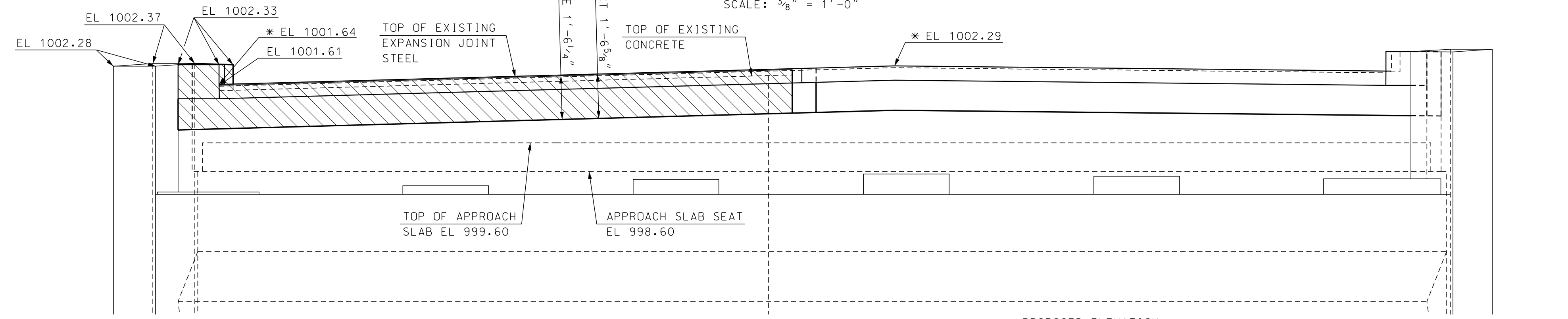
NOTES:

1. SEE SECTION A-A REMOVAL AND SECTION A-A CONSTRUCTION ON BRIDGE SHEET 13 OF 36 FOR FURTHER DETAILS.
2. ALL DIMENSIONS ARE GIVEN ALONG FACE OF BACKWALL UNLESS NOTED OTHERWISE.



PHASE 2 PLAN

SCALE: 3/8" = 1'-0"



PHASE 2 ELEVATION

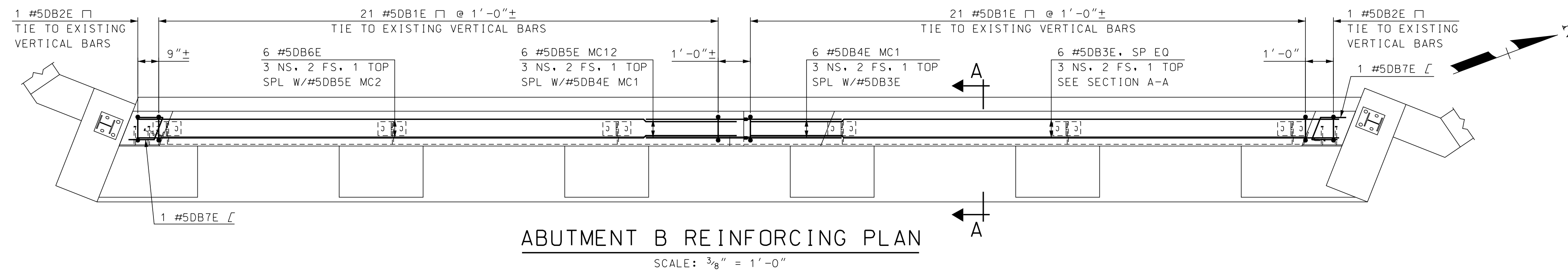
SCALE: 3/8" = 1'-0"

* = PROPOSED ELEVATION
ALL ELEVATIONS BASED ON EXISTING PLANS

NHDOT Bridge Design
9/24/21

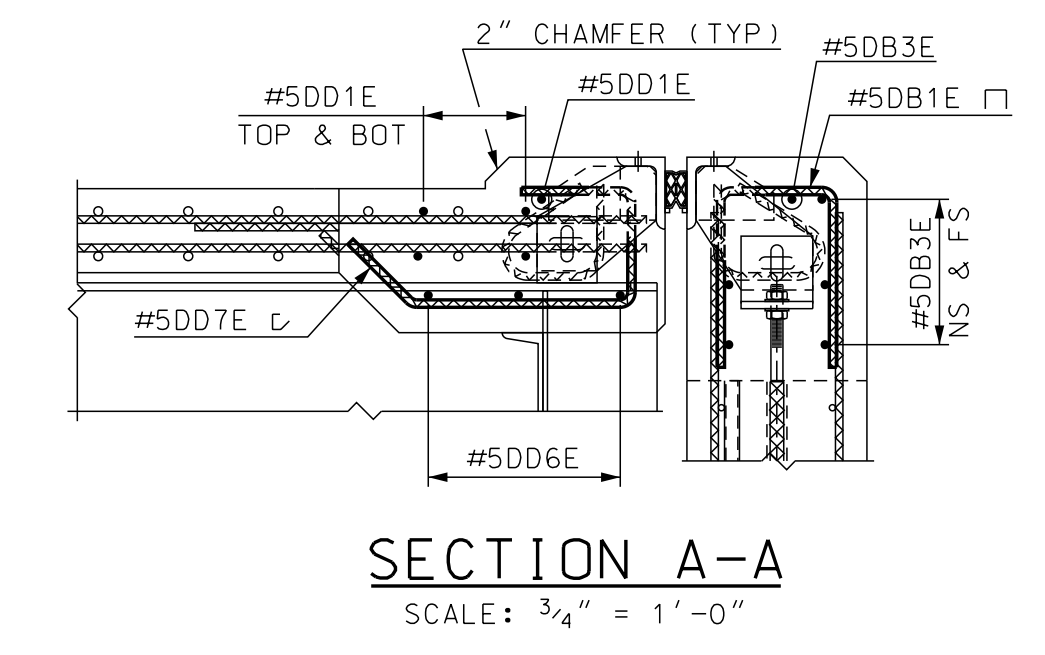
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON	BRIDGE NO.	084/160	STATE PROJECT	40511				
LOCATION 1-89 SOUTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)									
ABUT B MASONRY CONSTRUCTION BR NO 084/160								BRIDGE SHEET	12 OF 36
DESIGNED		CKN	4/21	CHECKED	WPS	8/21	FILE NUMBER		
DRAWN		SMG	4/21	CHECKED	CKN	8/21	140-3-1		
QUANTITIES		SMG	8/21	CHECKED	GMC	8/21	TOTAL SHEETS		
ISSUE DATE		FEDERAL PROJECT NO.				SHEET NO.	108	162	
REV. DATE		-----							
SUBDIRECTORY	HOMINY POT RD	DGN LOCATOR	SB084-160 B-abut	SHEET SCALE	AS NOTED				



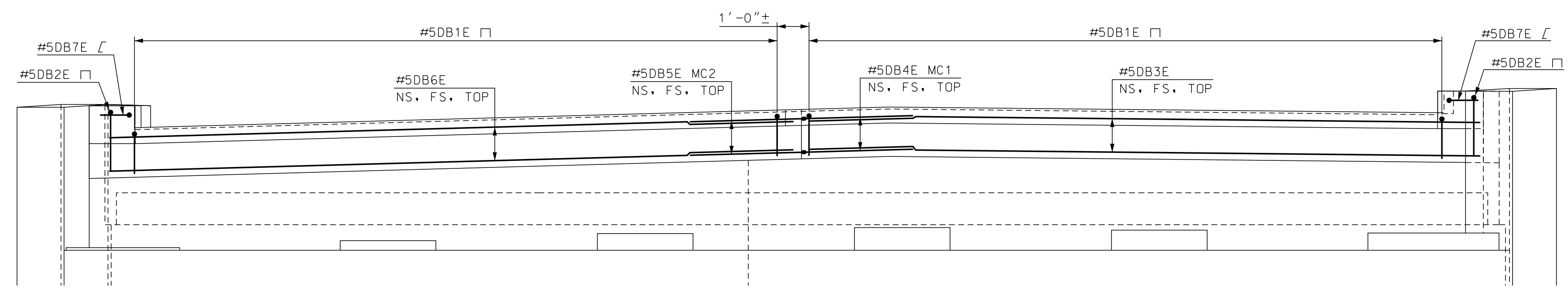
ABUTMENT B REINFORCING PLAN

SCALE: 3/8" = 1'-0"



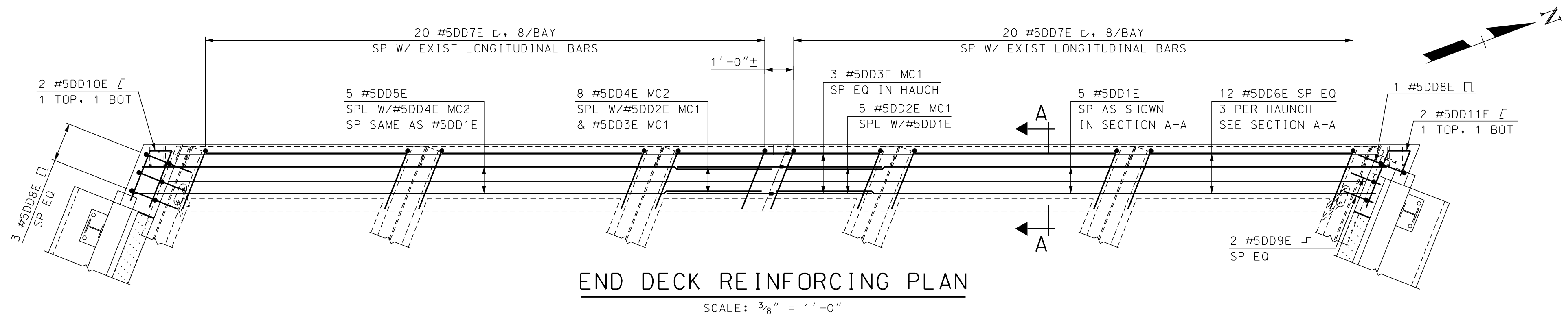
SECTION A-A

SCALE: 3/4" = 1'-0"



ABUTMENT B REINFORCING ELEVATION

SCALE: 3/8" = 1'-0"



END DECK REINFORCING PLAN

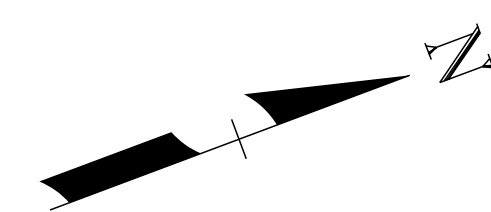
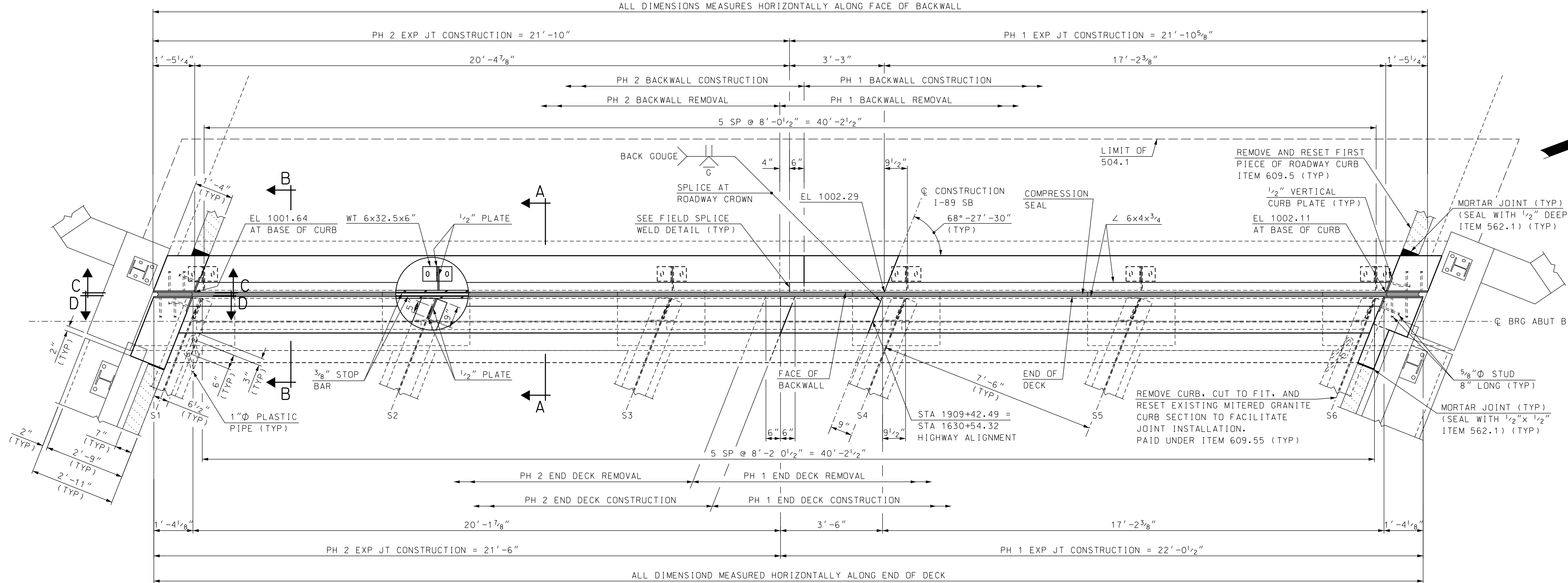
SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	SUTTON	BRIDGE NO.	084/160	STATE PROJECT	40511				
LOCATION 1-89 SOUTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)									
ABUT B AND DECK END REINFORCING BR NO 084/160								BRIDGE SHEET	13 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	FILE NUMBER		
		DESIGNED	CKN	4/21	WPS	8/21	140-3-1		
		DRAWN	SMG	4/21	CKN	8/21	TOTAL SHEETS		
		QUANTITIES	SMG	8/21	GMC	8/21	162		
		ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.			
		REV. DATE	-----			109			
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE							
HOMINY POT RD	SB084-160 Rein	AS NOTED							

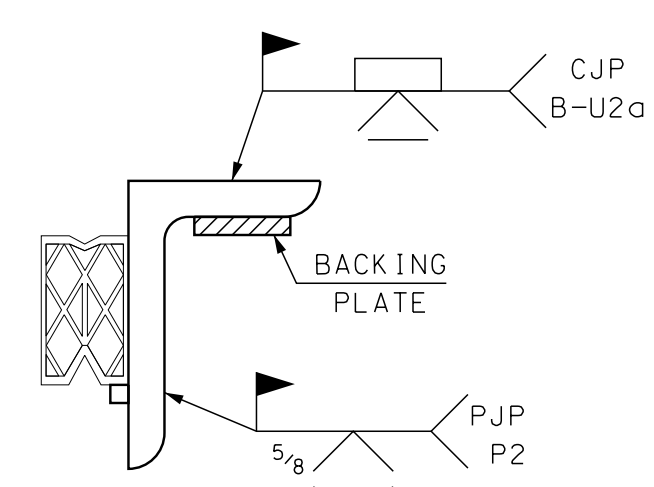
ALL DIMENSIONS MEASURES HORIZONTALLY ALONG FACE OF BACKWALL



PLAN

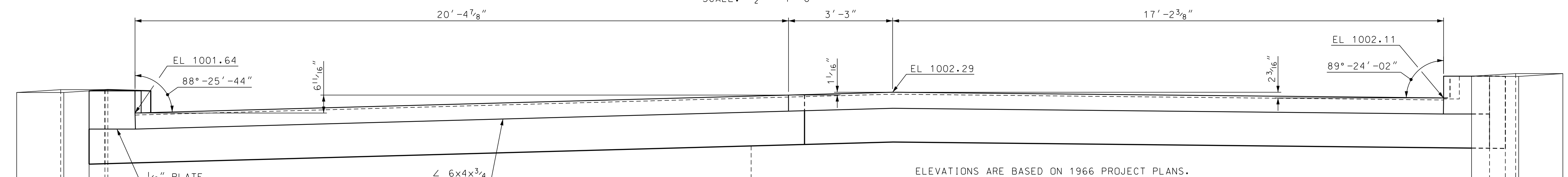
SCALE: 1/2" = 1'-0"

ELEVATIONS ARE BASED ON 1966 PROJECT PLANS.



FIELD SPLICE WELD DETAIL - COMPRESSION SEAL

SCALE: 3" = 1'-0"

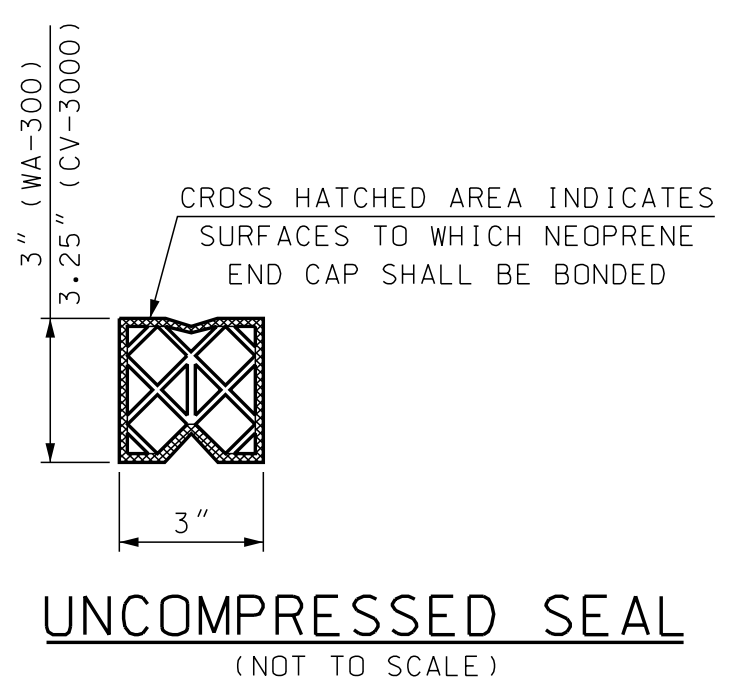
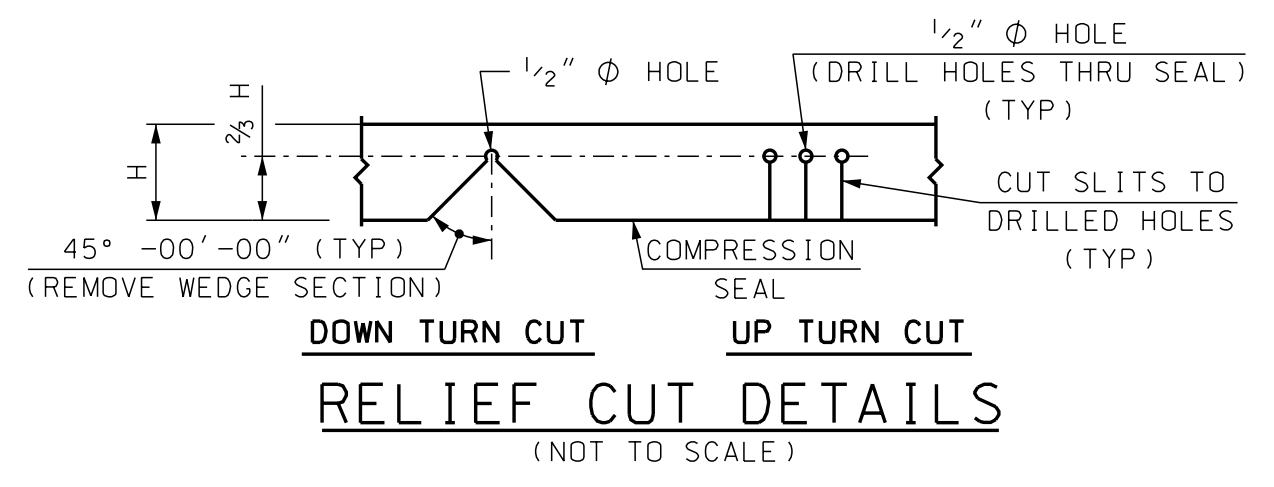


ELEVATION VIEW AT FACE OF BACKWALL

(STOP BARS NOT SHOWN)
SCALE: 1/2" = 1'-0"

EXPANSION JOINT NOTES

- (1) ALL EXPANSION JOINT STEEL, INCLUDING ANCHORS, SHALL BE GALVANIZED. STEEL ANGLES SHALL BE AASHTO M223 (ASTM A572) GRADE 50. MINOR STEEL PLATES MAY CONFORM TO AASHTO M183 (ASTM A36). THE ENTIRE ASSEMBLY, INCLUDING COMPRESSION SEAL, SHALL BE PAID FOR AS ITEM 560.1002, PREFABRICATED COMPRESSION SEAL EXPANSION JOINT (F).
- (2) SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.
- (3) THE EXPANSION JOINT OPENING SHALL BE PRESET TO TEMPERATURE ANTICIPATED PRIOR TO POURING DECK BLOCKOUT. FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE CONTRACT ADMINISTRATOR. SEE TEMPERATURE ADJUSTMENT TABLE & NOTES ON BRIDGE SHEET 15 OF 36.
- (4) THE COMPRESSION 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.
- (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 SHALL BE ASSEMBLED WITH A CONSTANT JOINT OPENING TO ENSURE PROPER PERFORMANCE AND WATER TIGHTNESS.
- (6) IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL, REMOVE SHIPPING DEVICES AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION 550.2.
- (7) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
- (8) THE COMPRESSION SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF 0.53 INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE A WA-300 SEAL BY WATSON BOWMAN OR CV-3000 BY D.S. BROWN.
- (9) ELEVATIONS SHOWN AT TOP OF ANGLES ARE 1/8" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.
- (10) ANGLES 6"x 4"x 3/4" SHALL BE UTILIZED FOR SEALS LESS THAN 5" (HEIGHT). FOR SEALS GREATER THAN OR EQUAL TO 5" (HEIGHT) STEEL ANGLES SHALL BE 8"x 4"x 3/4".
- (11) STEEL ANGLES AND STOP BARS SHALL BE MAINTAINED FREE FROM DIRT, WATER AND ANY OTHER LOOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL BE TAKEN NOT TO DAMAGE GALVANIZED SURFACES.
- (12) A TEMPORARY SEAL(S) SHALL BE INSTALLED PRIOR TO THE START OF THE WINTER MAINTENANCE PERIOD FOR ALL JOINT ASSEMBLIES OR PORTIONS THEREOF THAT WILL BE IN PLACE THROUGHOUT THE WINTER. ALL TEMPORARY SEALS SHALL BE REMOVED AND JOINT OPENINGS AND SUBSTRUCTURE SHALL BE CLEANED PRIOR TO INSTALLING THE FINAL SEAL. ALL COSTS SHALL BE SUBSIDIARY TO ITEM 560.1002.
- (13) FOR SECTIONS A-A THROUGH D-D SEE BRIDGE SHEET 15 OF 36.

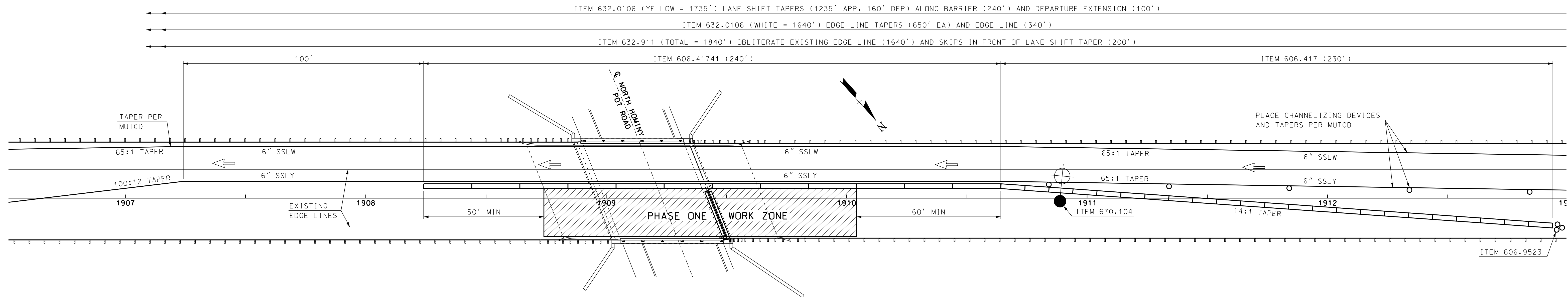


NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

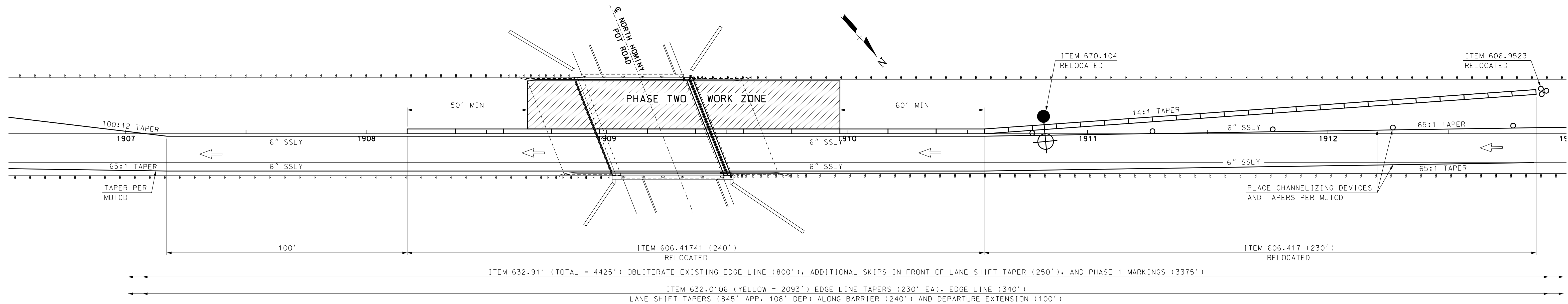
STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	SUTTON	BRIDGE NO.	084/160	STATE PROJECT	40511
LOCATION 1-89 SOUTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)					
COMPRESSION JOINT BR NO 084/160 (1 OF 2)					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					14 OF 36
DESIGNED	CKN	4/21	CHECKED	WPS	8/21
DRAWN	SMG	4/21	CHECKED	CKN	8/21
QUANTITIES	SMG	8/21	CHECKED	GMC	8/21
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			110	162

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
HOMINY POT RD	SB084-160 Comp jt	AS NOTED



PHASE 1 BARRIER LAYOUT

SCALE: 1" = 20'



PHASE 2 BARRIER LAYOUT

SCALE: 1" = 20'

PHASE 3 NOTES

1. RESTORE PAVEMENT MARKINGS TO ORIGINAL LAYOUT.
2. ITEM 632.911 (TOTAL = 3375') OBLITERATE PHASE 2 MARKINGS (3375')
3. ITEM 632.0106 (WHITE = 2090') RIGHT EDGE LINE (1640') AND SKIPS (450')
4. ITEM 632.0106 (YELLOW = 800') LEFT EDGE LINE (800')

ALL RELOCATED QUANTITIES ARE SUBSIDIARY TO THE ITEM REFERENCED

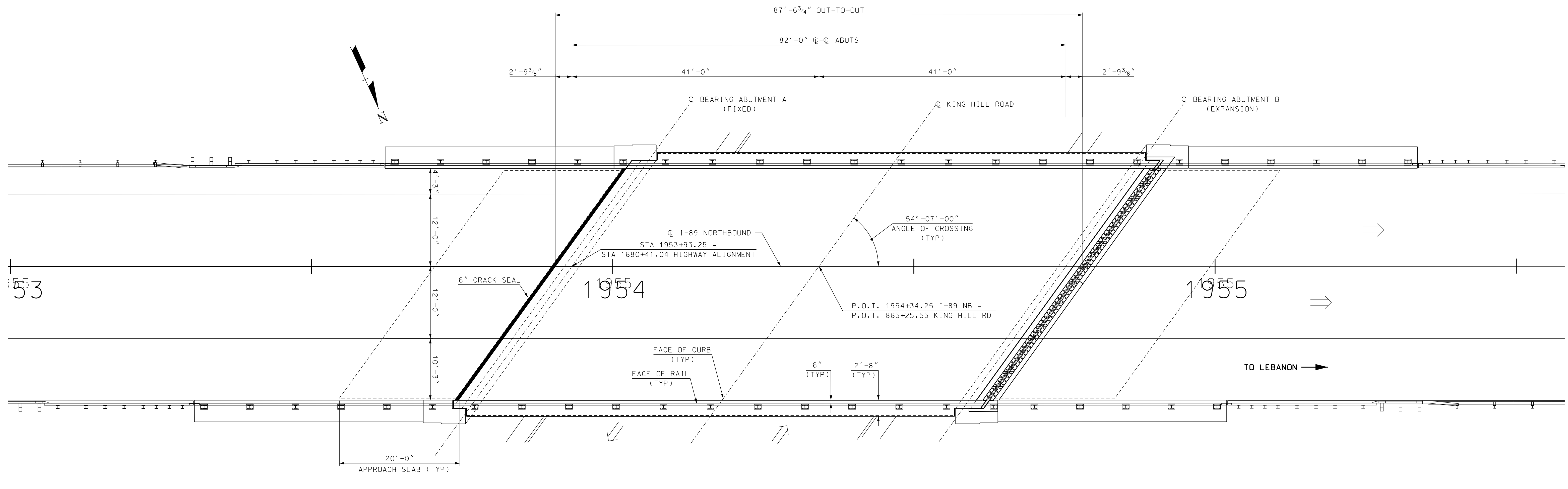
NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

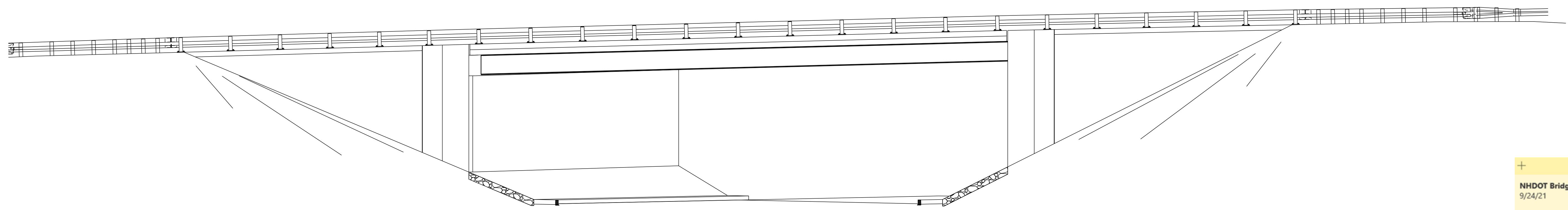
NOTE:
CHANNELIZING DEVICES NOT SHOWN.
SEE THE MUTCD 2009 EDITION AND
NHDOT WORK ZONE TRAFFIC CONTROL
STANDARD PLANS FOR LAYOUT.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
HOMINY POT RD	SB084-160 Traffic	AS NOTED

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	SUTTON	BRIDGE NO.	084/160	STATE PROJECT	40511
LOCATION 1-89 SOUTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR #31)					
BARRIER LAYOUT BR NO 084/160					BRIDGE SHEET
				BY	DATE
				DESIGNED	8/21
				CHECKED	WPS 8/21
				BY	DATE
				DRAWN	3/21
				CHECKED	CKN 8/21
				QUANTITIES	SMG 8/21
				CHECKED	GMC 8/21
				ISSUE DATE	
				REV. DATE	
				FEDERAL PROJECT NO.	
				SHEET NO.	112
				FILE NUMBER	140-3-1
				TOTAL SHEETS	162
				BRIDGE SHEET	16 OF 36



PLAN
SCALE: 1/8" = 1'-0"

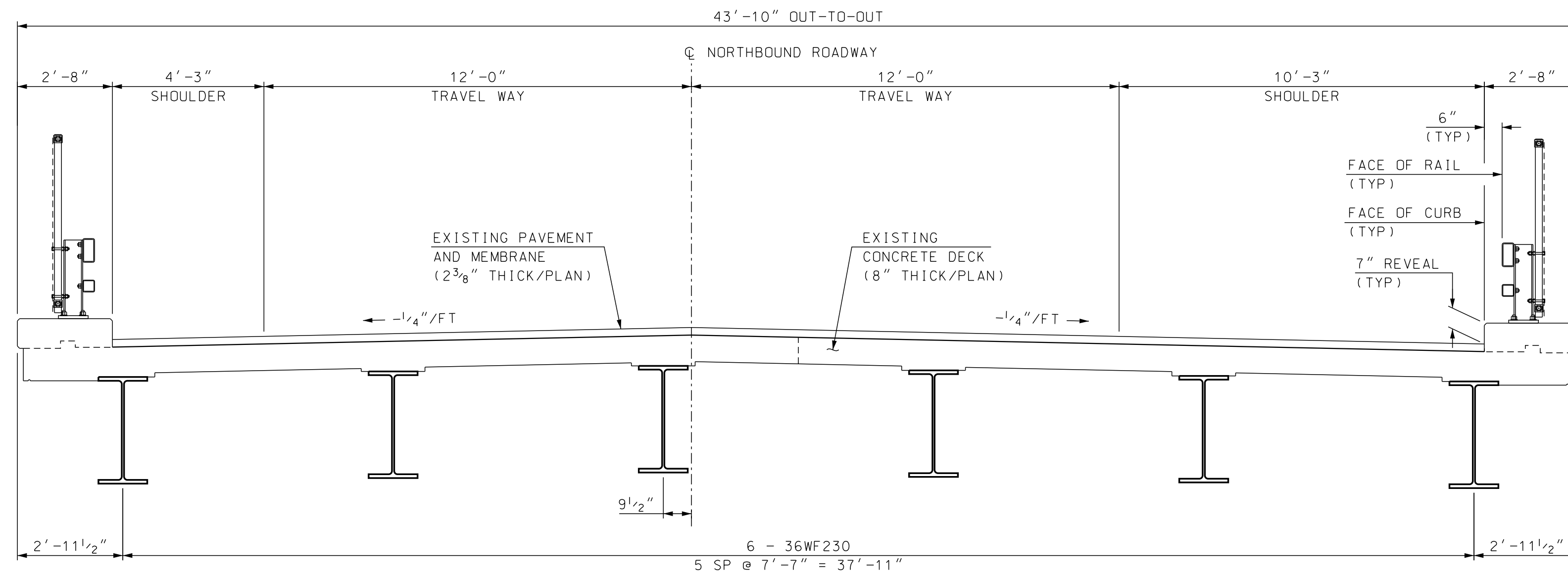


ELEVATION
SCALE: 1/8" = 1'-0"

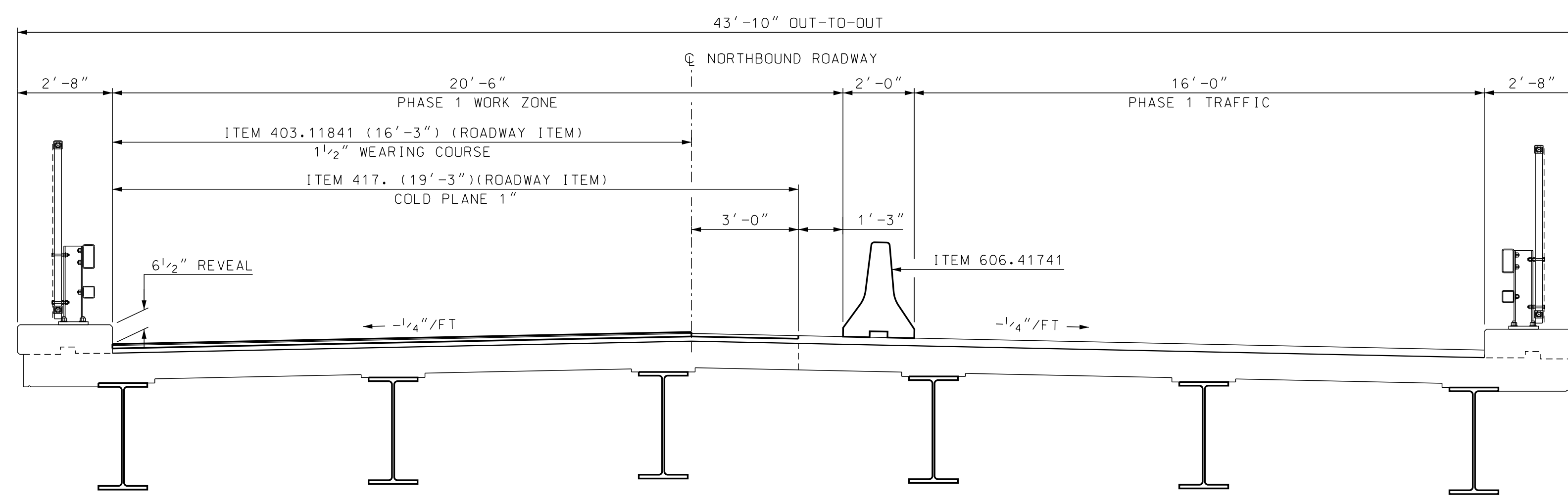
NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511				
LOCATION I-89 NORTHBOUND over KING HILL ROAD (INTERSTATE BR. #32)									
GENERAL PLAN AND ELEVATION BR NO 124/059								BRIDGE SHEET	17 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	FILE NUMBER		
		DESIGNED	CKN 8/21	CHECKED	WPS 8/21	140-3-1			
		DRAWN	GMC 8/21	CHECKED	CKN 8/21	TOTAL SHEETS			
		QUANTITIES	GMC 8/21	CHECKED	GMC 8/21	162			
		ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.			
		REV. DATE		-----		113			
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE							
King Hill Rd	NB124-059 Gen	AS NOTED							

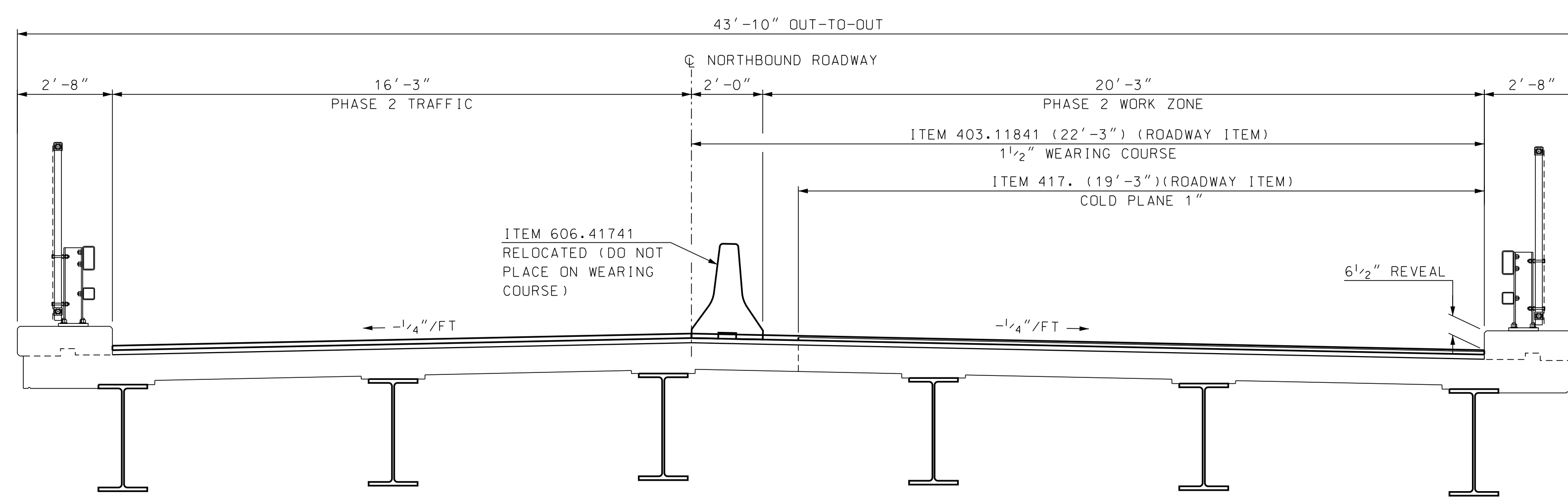
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
King Hill Rd	NB124-059 Gen	AS NOTED



EXISTING CROSS SECTION
 (LOOKING UPSTATION)
 SCALE: 3/8" = 1'-0"



PHASE 1 CONSTRUCTION
 (LOOKING UPSTATION)
 SCALE: 3/8" = 1'-0"

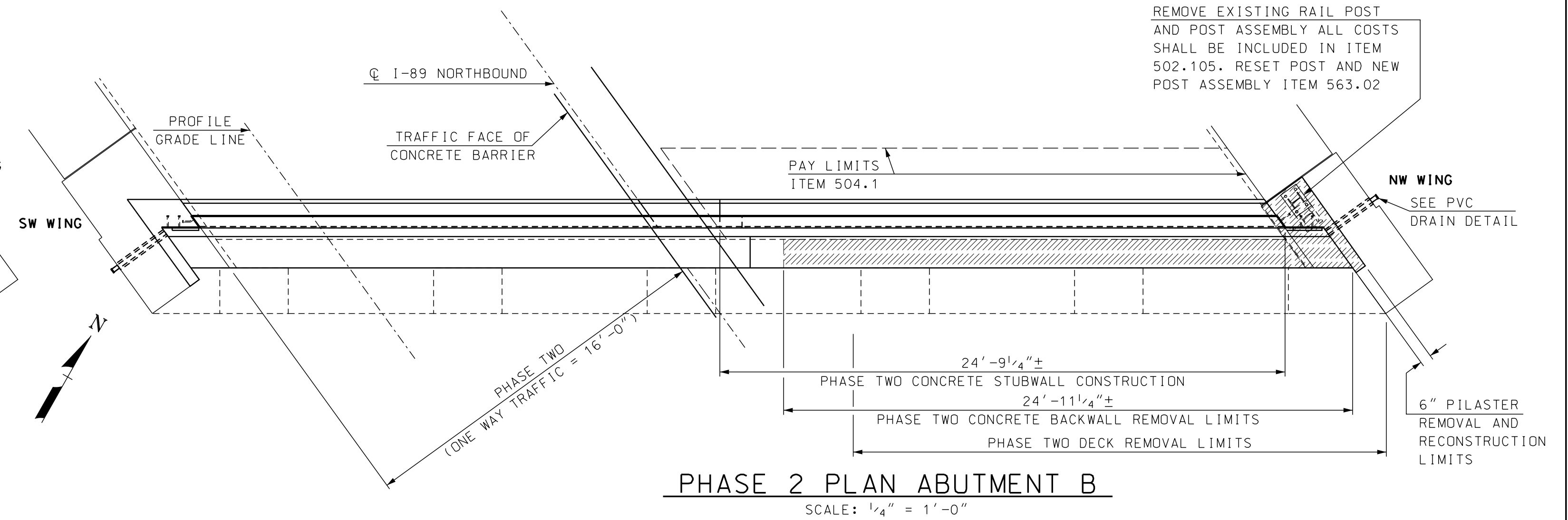
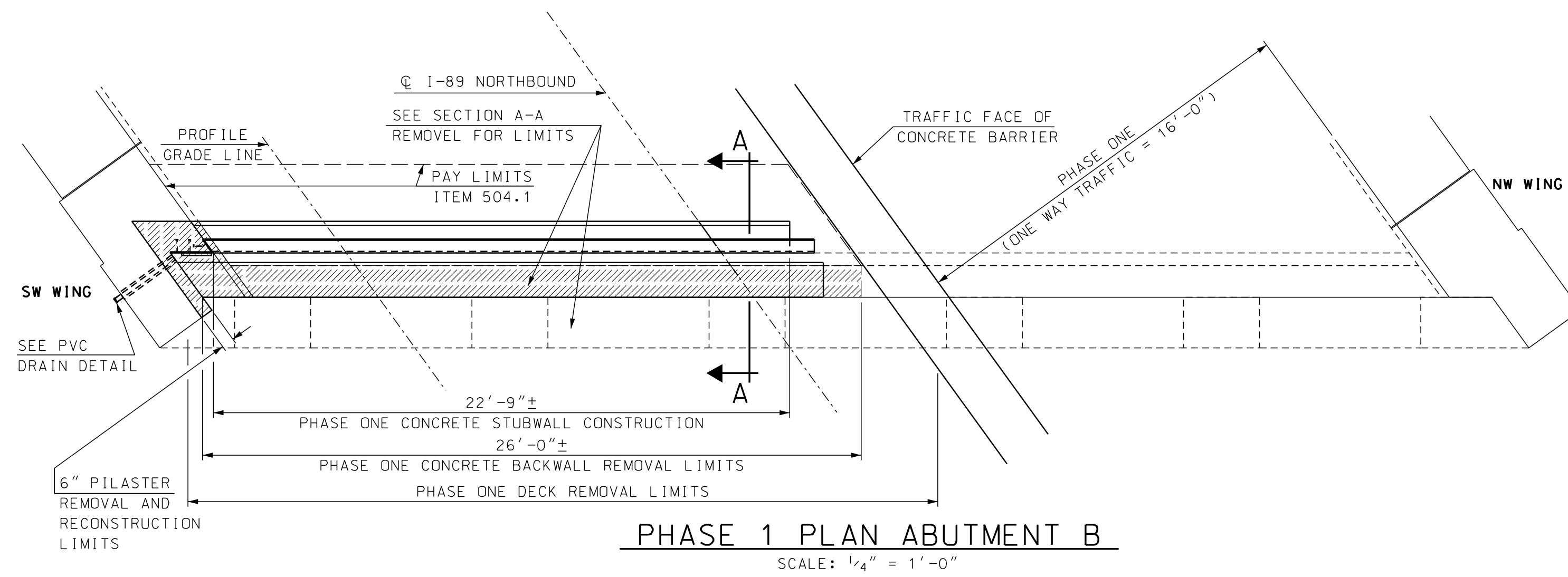


PHASE 2 CONSTRUCTION
 (LOOKING UPSTATION)
 SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
 9/24/21
SAMPLE PLAN
 Details and notes may not be current.
 Closely review before using details!

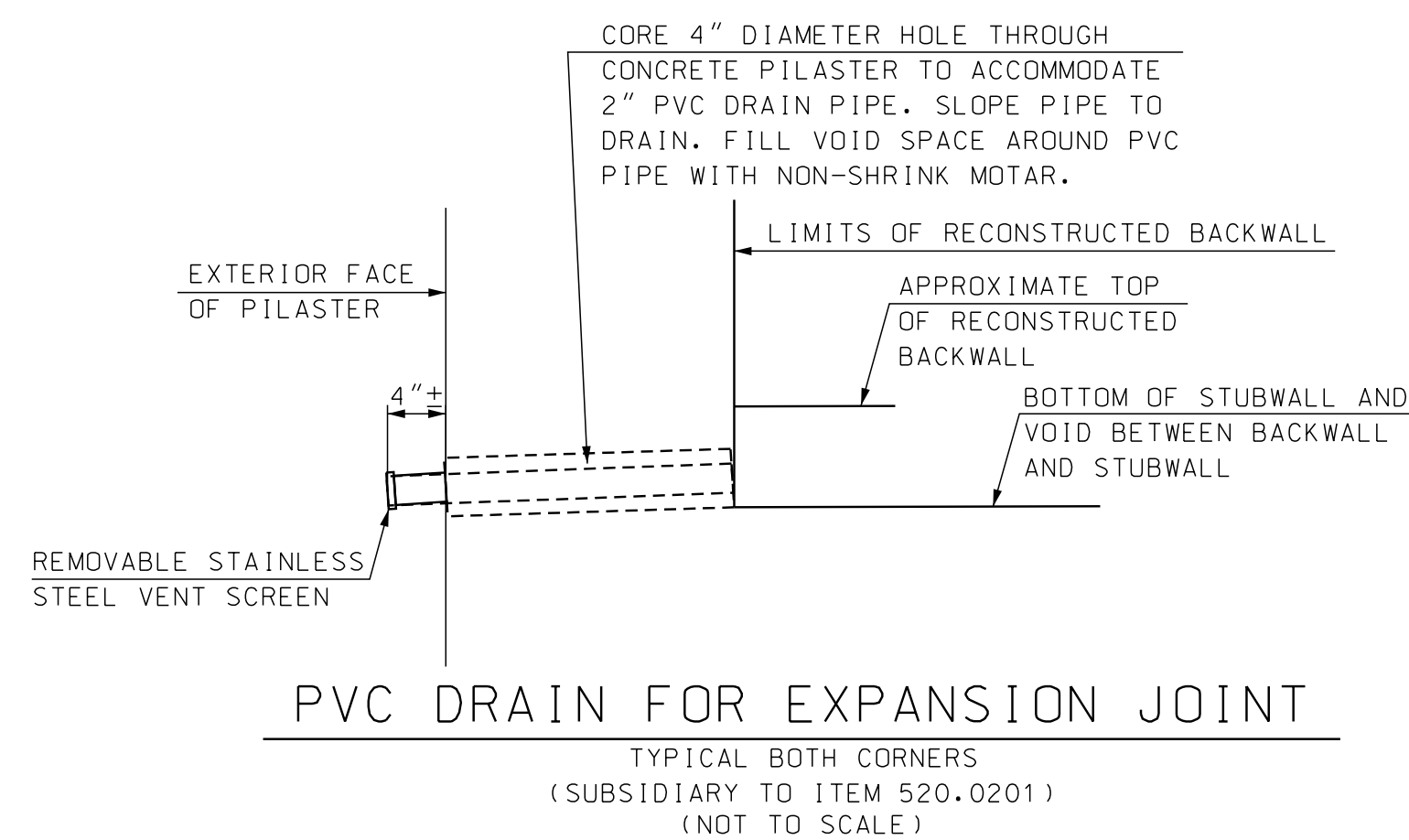
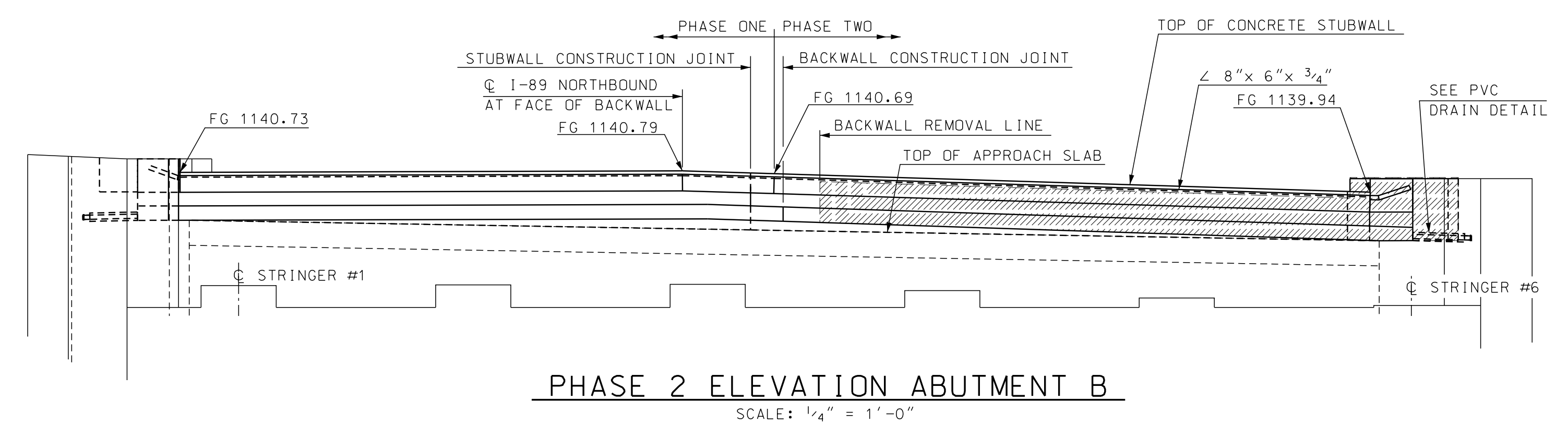
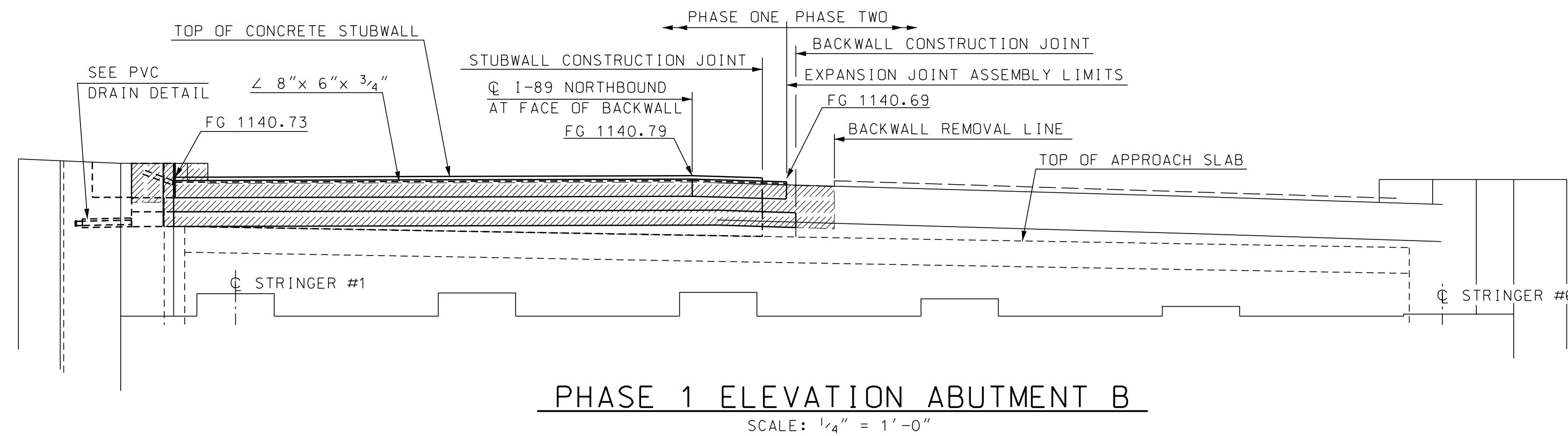
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511				
LOCATION 1-89 NORTHBOUND over KING HILL ROAD (INTERSTATE BR. #32)									
DECK PHASING BR NO 124/059								BRIDGE SHEET	
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	WPS	DATE	18 OF 36		
		DESIGNED	CKN	8/21	CHECKED	WPS	8/21		
		DRAWN	GMC	8/21	CHECKED	CKN	8/21		
		QUANTITIES	GMC	8/21	CHECKED	GMC	8/21		
		ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS		
		REV. DATE	-----			114	162		

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
King Hill Rd	NB124-059 Deck	AS SHOWN



LIMIT OF REMOVAL
 LIMIT OF PROPOSED CONCRETE

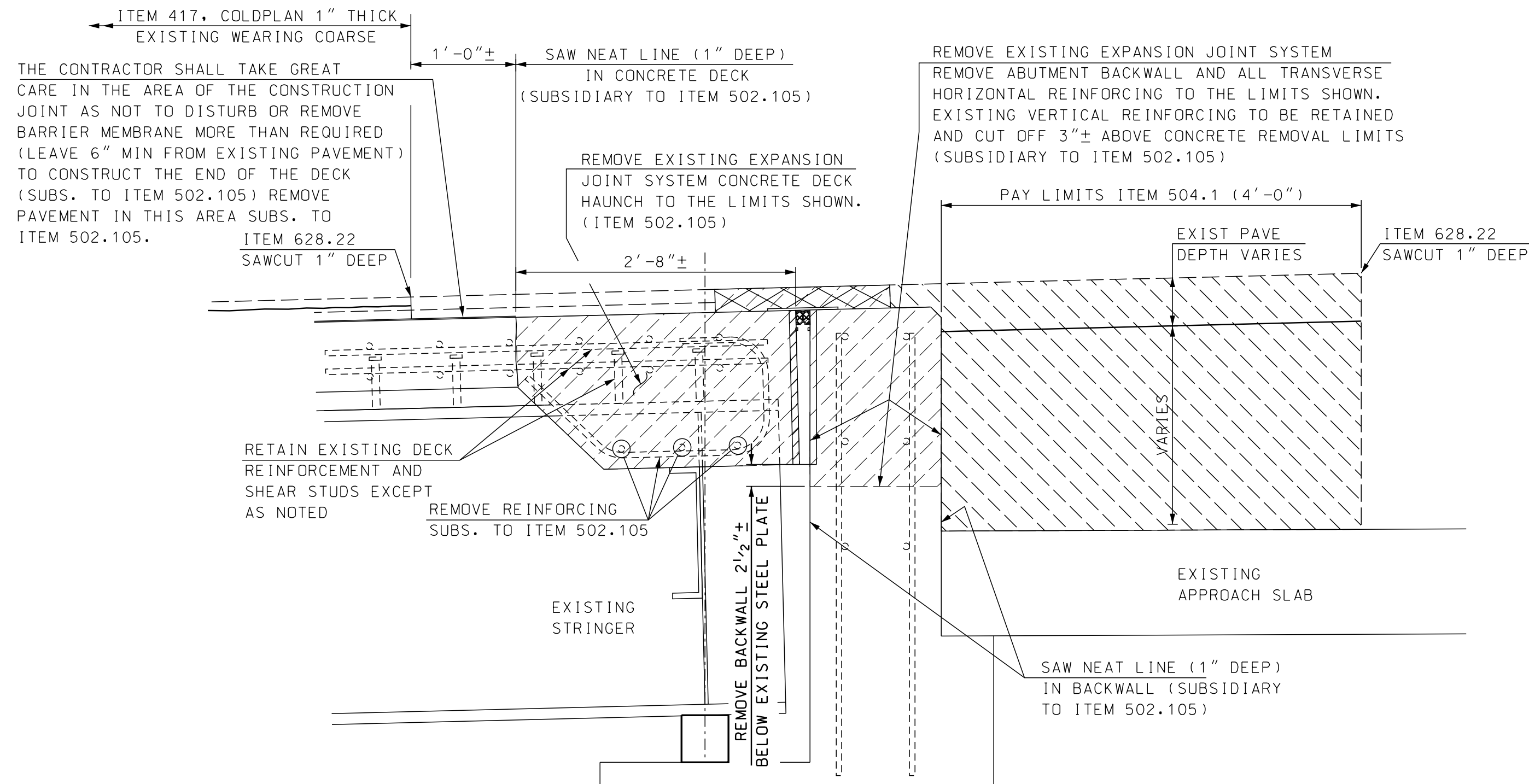
- NOTES:
- SEE SECTION A-A REMOVAL AND SECTION A-A CONSTRUCTION ON BRIDGE SHEET 20 & 21 OF 36 FOR FURTHER DETAILS.
 - ALL DIMENSIONS ARE GIVEN ALONG FACE OF BACKWALL UNLESS NOTED OTHERWISE.



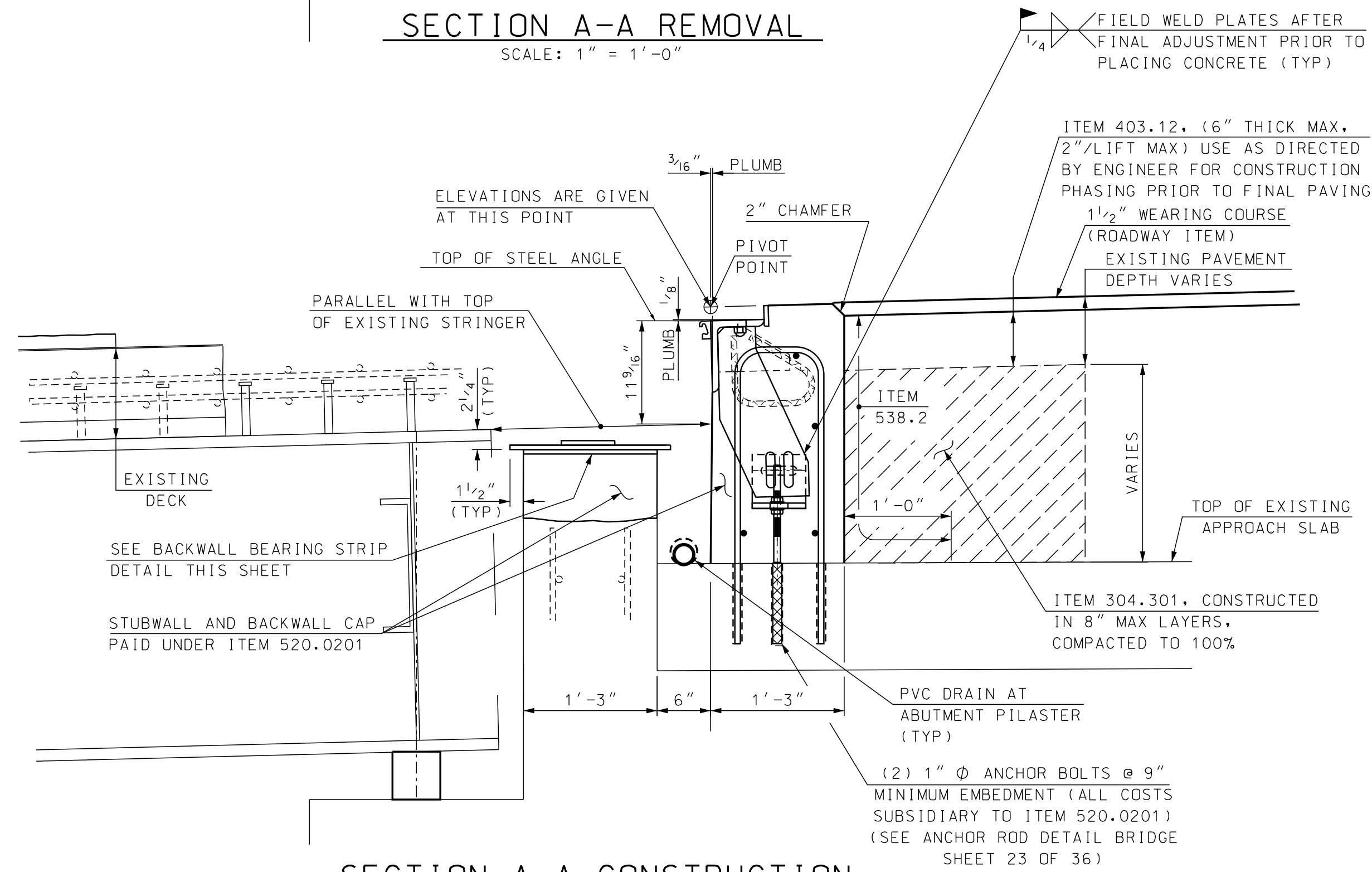
+ ... X
NHDOT Bridge Design
 9/24/21
SAMPLE PLAN
 Details and notes may not be current.
 Closely review before using details!

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511						
LOCATION NORTHBOUND I-89 OVER KING HILL ROAD											
ABUTMENT B CONSTRUCTION BR. NO. 124/059						BRIDGE SHEET					
REVISIONS AFTER PROPOSAL						BY	DATE	BY	DATE	19 OF 36	
						DESIGNED	CKN	8/21	CHECKED	WPS	8/21
						DRAWN	GMC	8/21	CHECKED	CKN	8/21
						QUANTITIES	GMC	8/21	CHECKED	GMC	8/21
						ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
						REV. DATE		-----		115	162

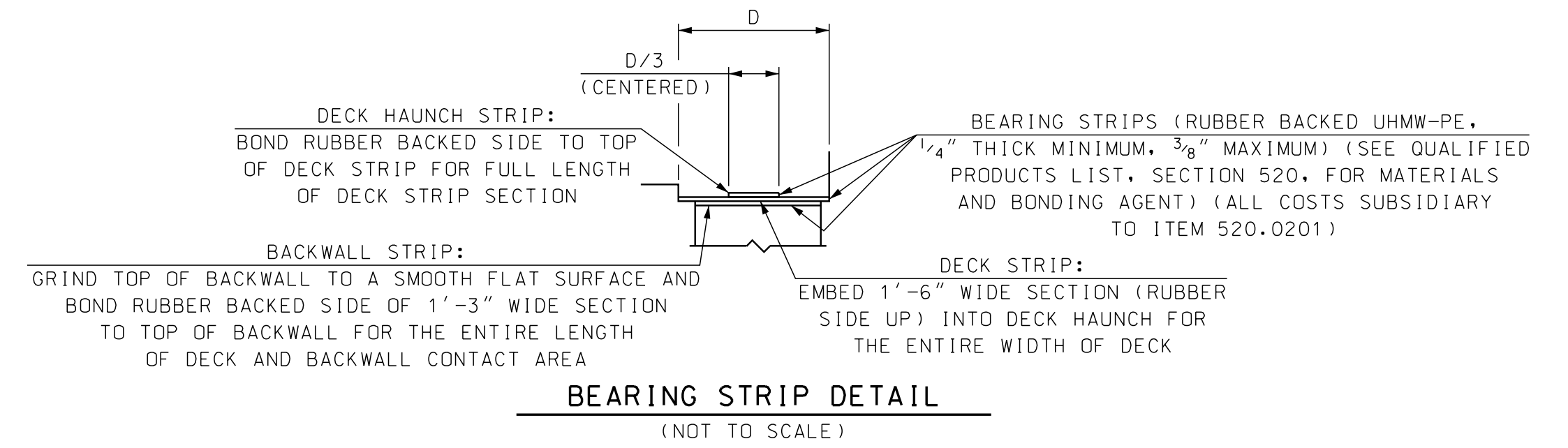
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	NB124-059/ABUTB	AS NOTED



SECTION A-A REMOVAL
SCALE: 1" = 1'-0"



SECTION A-A CONSTRUCTION
SCALE: 1" = 1'-0"

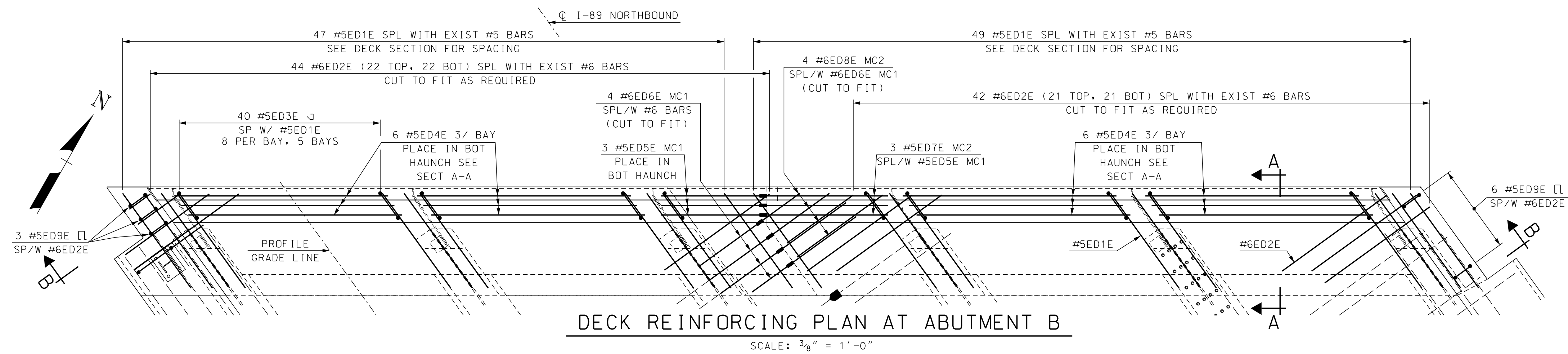


NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

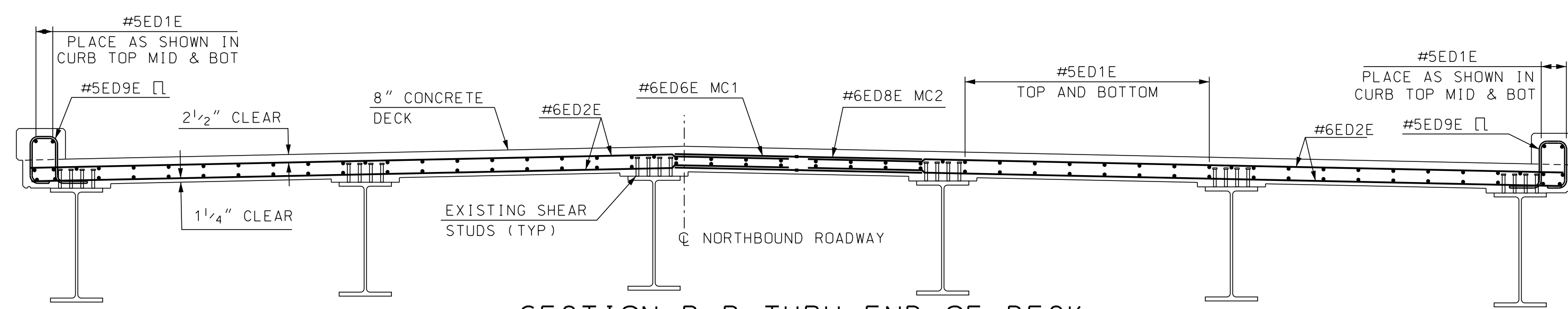
STATE OF NEW HAMPSHIRE										
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511					
LOCATION NORTHBOUND I-89 OVER KING HILL ROAD										
ABUTMENT B CONSTRUCTION BR. NO. 124/059					BRIDGE SHEET					
REVISIONS AFTER PROPOSAL					BY	DATE	BY	DATE	20 OF 36	
					DESIGNED	CKN	8/21	CHECKED	WPS	8/21
					DRAWN	GMC	8/21	CHECKED	CKN	8/21
					QUANTITIES	GMC	8/21	CHECKED	GMC	8/21
					ISSUE DATE		FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS	
					REV. DATE		-----	116	162	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	NB124-059/ABUTB	AS NOTED



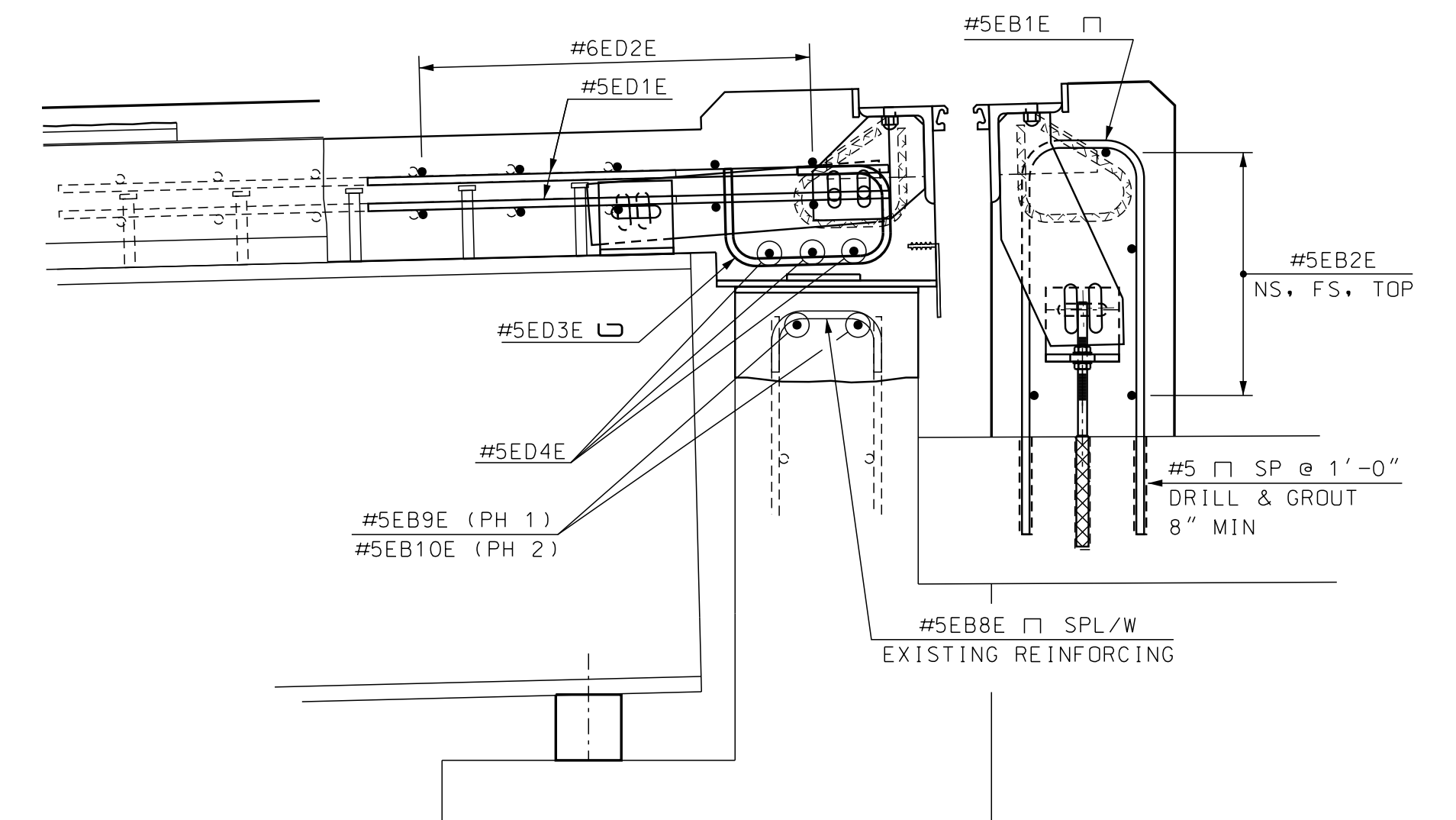
DECK REINFORCING PLAN AT ABUTMENT B

SCALE: 3/8" = 1'-0"



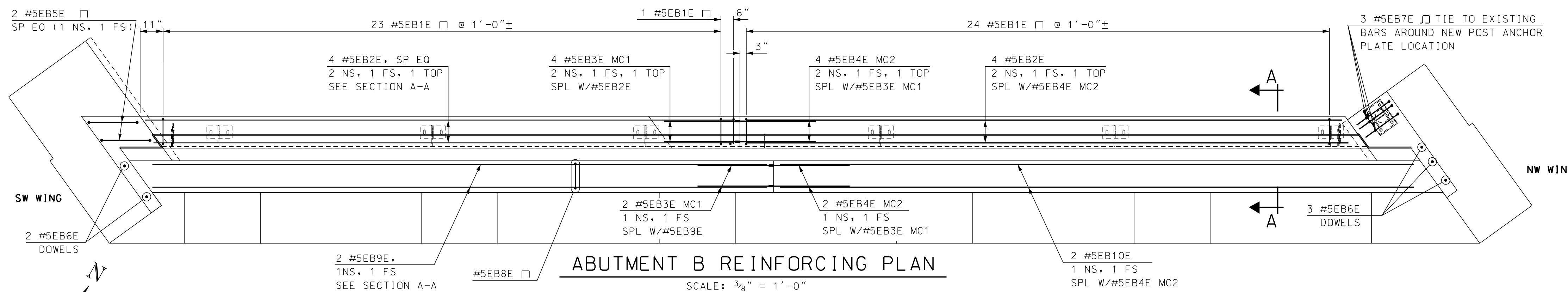
SECTION B-B THRU END OF DECK

(NOT TO SCALE)
(REFERENCE ONLY)



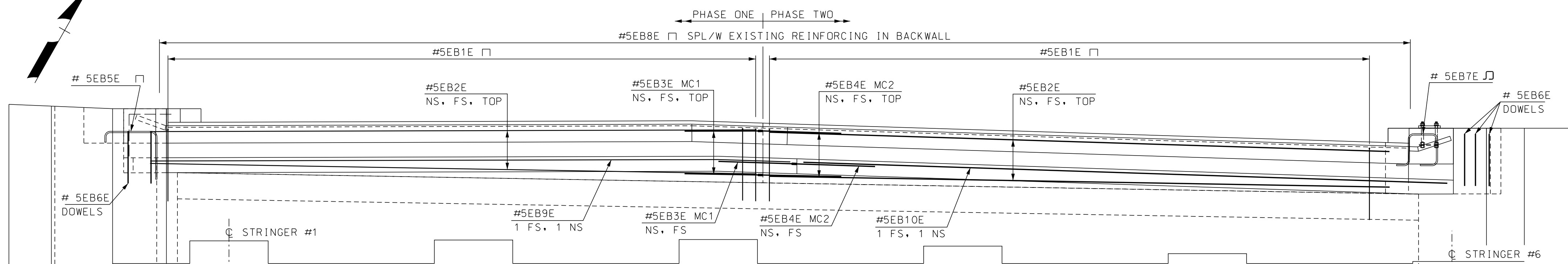
SECTION A-A

SCALE: 1" = 1'-0"



ABUTMENT B REINFORCING PLAN

SCALE: 3/8" = 1'-0"



ABUTMENT B REINFORCING ELEVATION

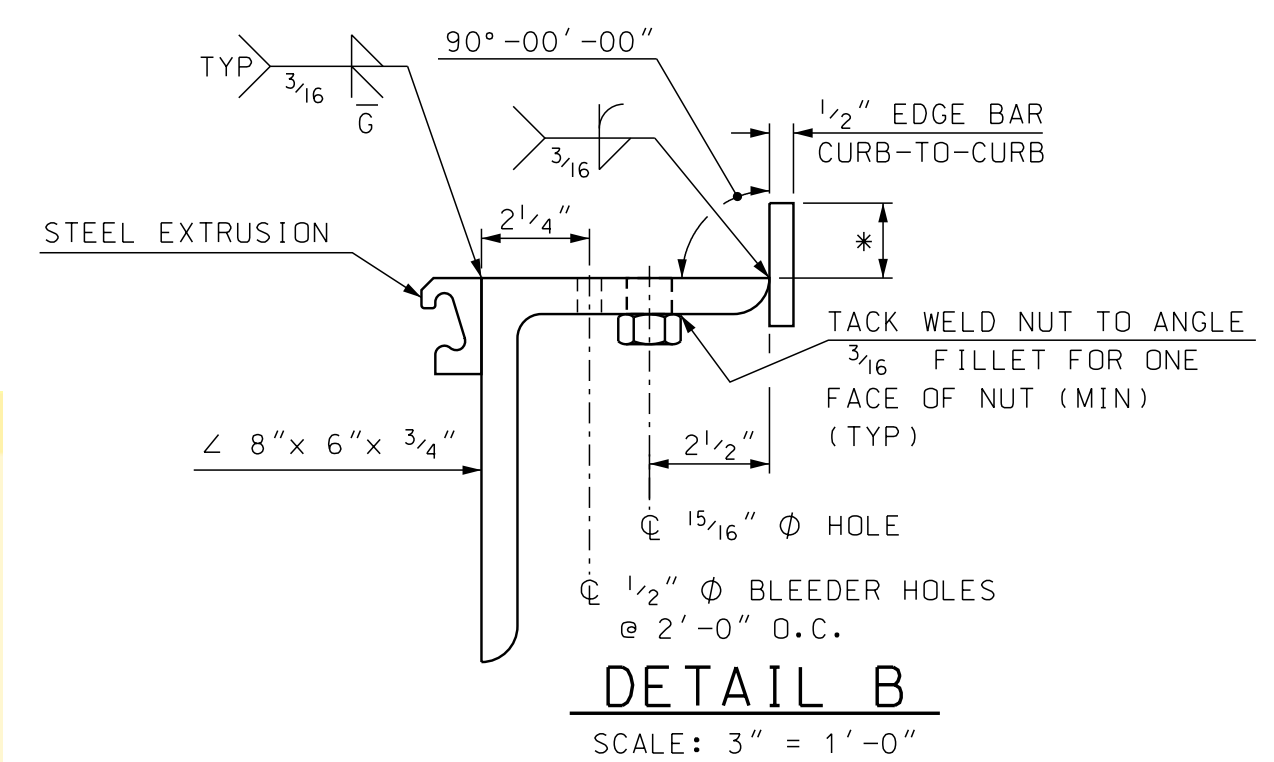
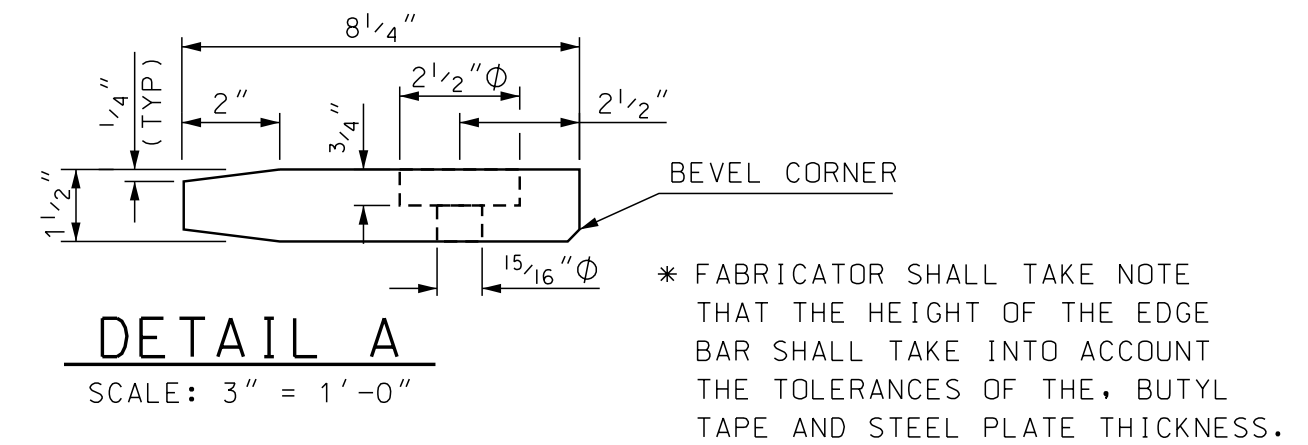
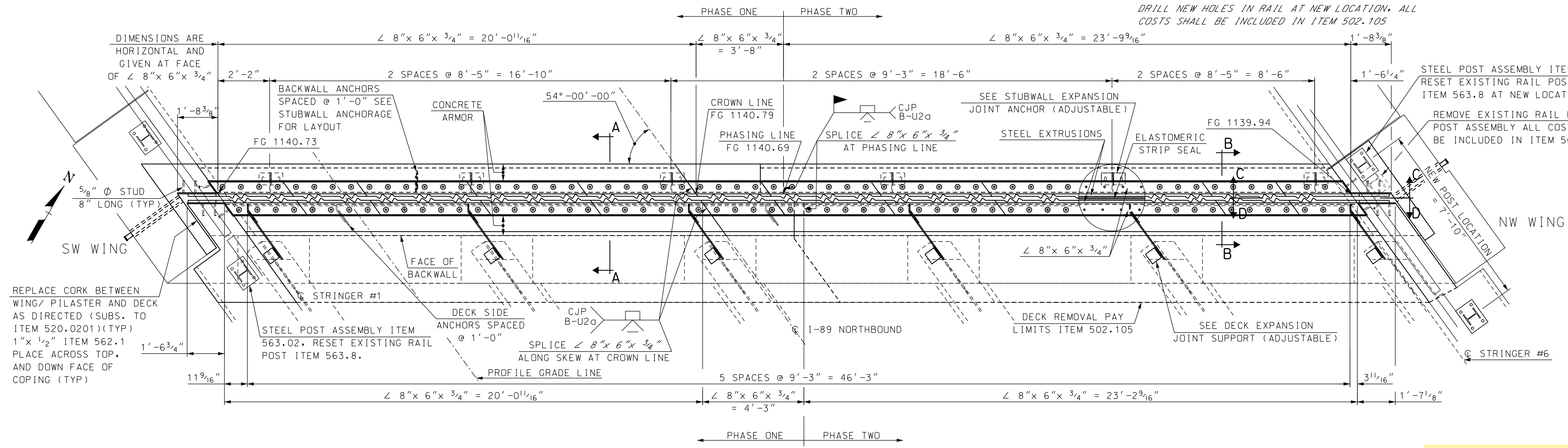
SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511				
LOCATION I-89 NORTHBOUND OVER KING HILL ROAD									
REINFORCING PLAN BR. NO. 124/059								BRIDGE SHEET	21 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	WPS	DATE	FILE NUMBER		
		DESIGNED	CKN	8/21	CHECKED	WPS	8/21	140-3-1	
		DRAWN	GMC	8/21	CHECKED	CKN	8/21	TOTAL SHEETS	
		QUANTITIES	GMC	8/21	CHECKED	GMC	8/21	162	
ISSUE DATE		FEDERAL PROJECT NO.				SHEET NO.			
REV. DATE		-----				117			
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE							
BRC/King Hill Rd	NB124-059reinB	AS NOTED							

PLUG BOLT HOLES IN EXISTING BRIDGE RAIL AND DRILL NEW HOLES IN RAIL AT NEW LOCATION, ALL COSTS SHALL BE INCLUDED IN ITEM 502.105

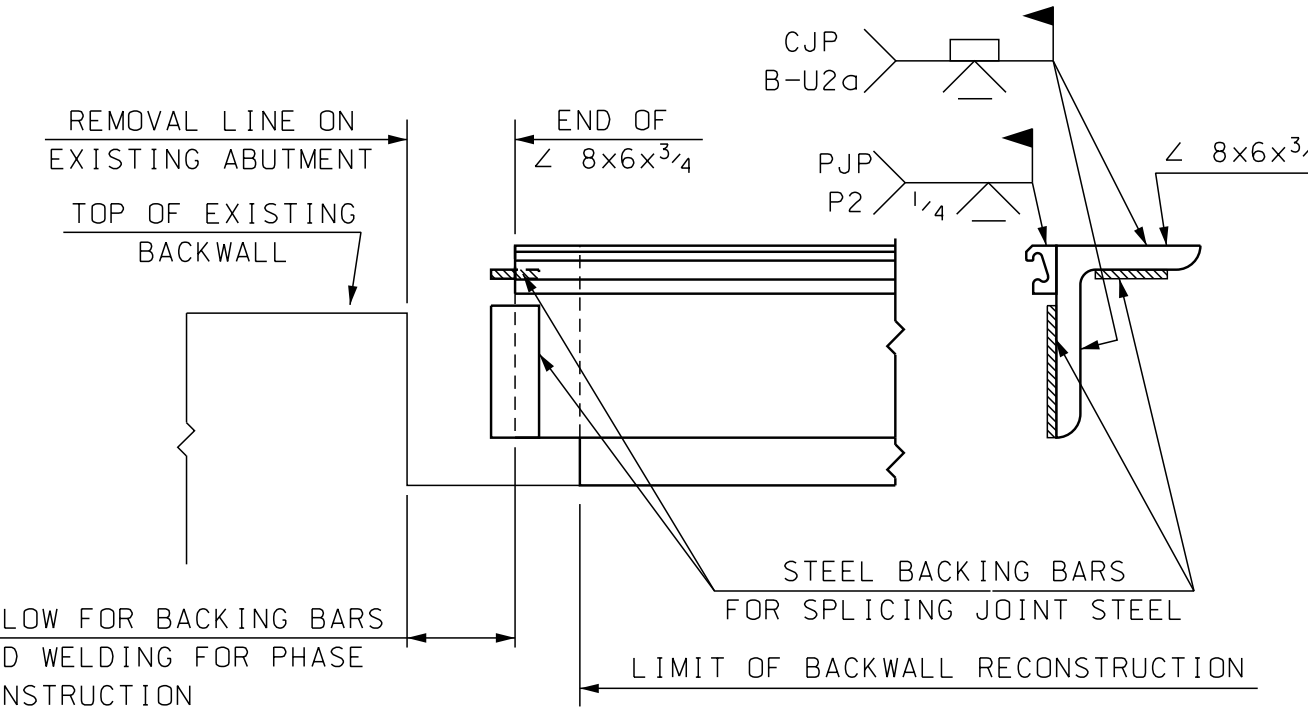
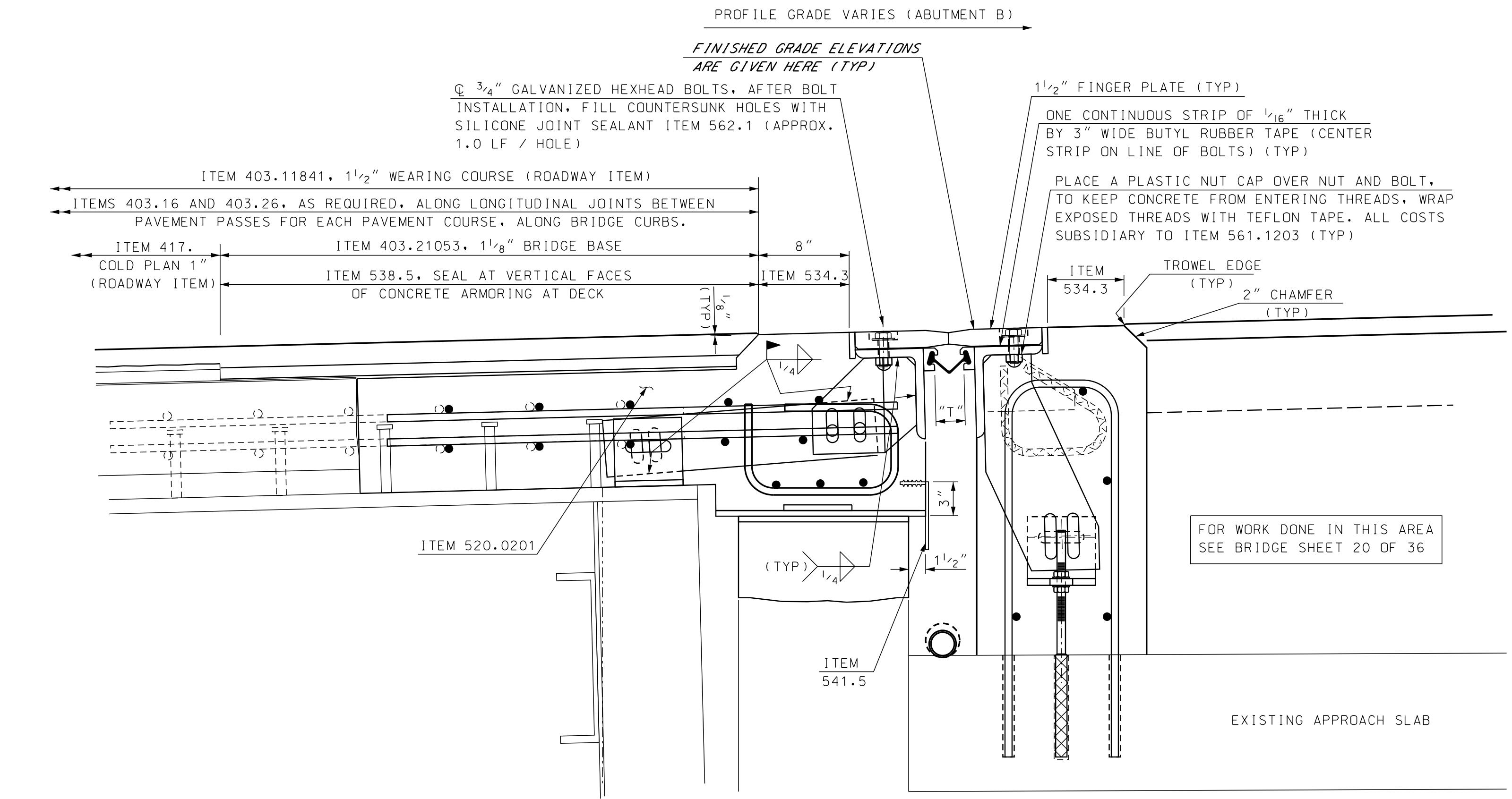


PLAN - ABUTMENT B - EXPANSION JOINT (BR. NO. 124/059)

SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details



EXPANSION JOINT NOTES

- (1) ALL EXPANSION JOINT STEEL SHALL BE GALVANIZED. STEEL ANGLES AND PLOW PLATES SHALL BE ASTM A572 GRADE 50. MINOR STEEL PLATES AND EXTRUSIONS MAY CONFORM TO ASTM A36. THE ENTIRE ASSEMBLY, INCLUDING STRIP SEAL, SHALL BE PAID FOR AS ITEM 561.1203, PREFABRICATED STRIP SEAL EXPANSION JOINT W/ PLOW PLATES (F).
- (2) SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.
- (3) EXPANSION JOINT SHALL BE PRESET TO THE TEMPERATURE ANTICIPATED AT THE TIME OF INSTALLATION. FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE CONTRACT ADMINISTRATOR (SEE TEMPERATURE ADJUSTMENT TABLE & NOTES).
- (4) THE STRIP SEAL SHALL BE FURNISHED IN ONE CONTINUOUS LENGTH. NO SPLICES WILL BE ALLOWED.
- (5) JOINT SUPPORT PLATES AND CURB PLATES SHALL BE SHOP WELDED TO EXPANSION JOINT STEEL AND SHALL BE VERTICAL AFTER THE JOINT ASSEMBLY HAS BEEN ADJUSTED FOR ROADWAY CROSS-SLOPE AND GRADE.
- (6) REMOVE SHIPPING DEVICES IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL, AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION 550.
- (7) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
- (8) THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF 3/4 INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN OR A2R-400 BY D.S. BROWN
- (9) NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED.
- (10) THE FINGER PLATES SHALL BE CUT FROM ONE CONTINUOUS 1'-2 1/2" WIDE x 1 1/2" THICK PLATE, AS SHOWN ON THE FINGER PLATE PLAN, AND FURNISHED IN 12 LENGTHS.

NOTE:
FOR SECTIONS B-B, C-C, D-D SEE BRIDGE SHEET 23 OF 36.

NOTE THAT THE ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM THE ORIGINAL PLANS AND/OR BRIDGE MAINTENANCE RECORDS. DAMAGE AND/OR FIELD MAINTENANCE MAY HAVE OCCURRED THAT MAY NOT HAVE BEEN RECORDED SO FIELD VERIFICATION OF DIMENSIONS AND ELEVATIONS IS REQUIRED TO ENSURE PROPER FITTING OF EXPANSION JOINT. ANY DIFFERENCES BETWEEN FIELD MEASUREMENTS AND DESIGN PLANS SHALL BE NOTED ON THE SHOP DRAWINGS.

- TEMPERATURE ADJUSTMENT NOTES
- "T" DIMENSIONS ARE PERPENDICULAR TO FACE OF BACKWALL.
 - MINIMUM "T" WIDTH FOR SEAL INSTALLATION = 1 3/4" (APPROXIMATELY 65°F OR LESS).
 - VALUES IN THE TEMPERATURE ADJUSTMENT TABLE ARE FOR SETTING THE EXPANSION JOINT ASSEMBLY IMMEDIATELY PRIOR TO POURING CONCRETE BLOCKOUTS.

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	2"
35°F	1 7/8"
50°F	1 13/16"
65°F	1 3/4"
80°F	1 11/16"
95°F	1 5/8"

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

TOWN NEW LONDON BRIDGE NO. 124/059 STATE PROJECT 40511

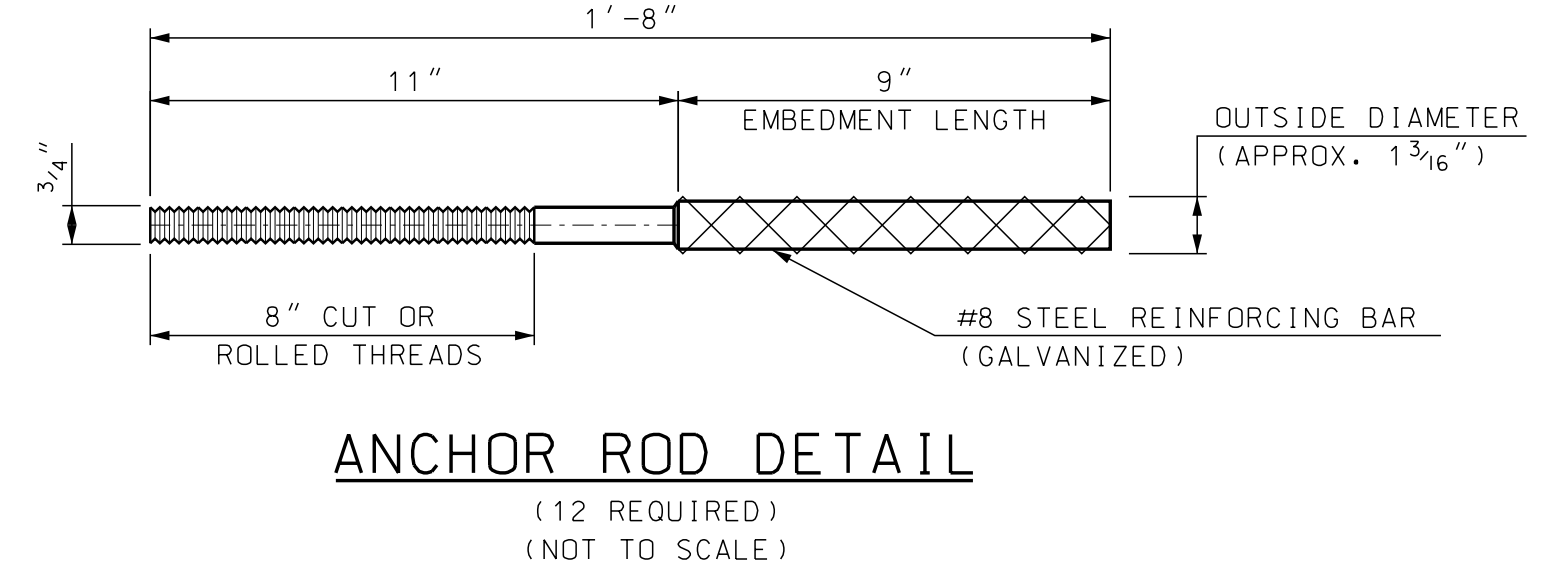
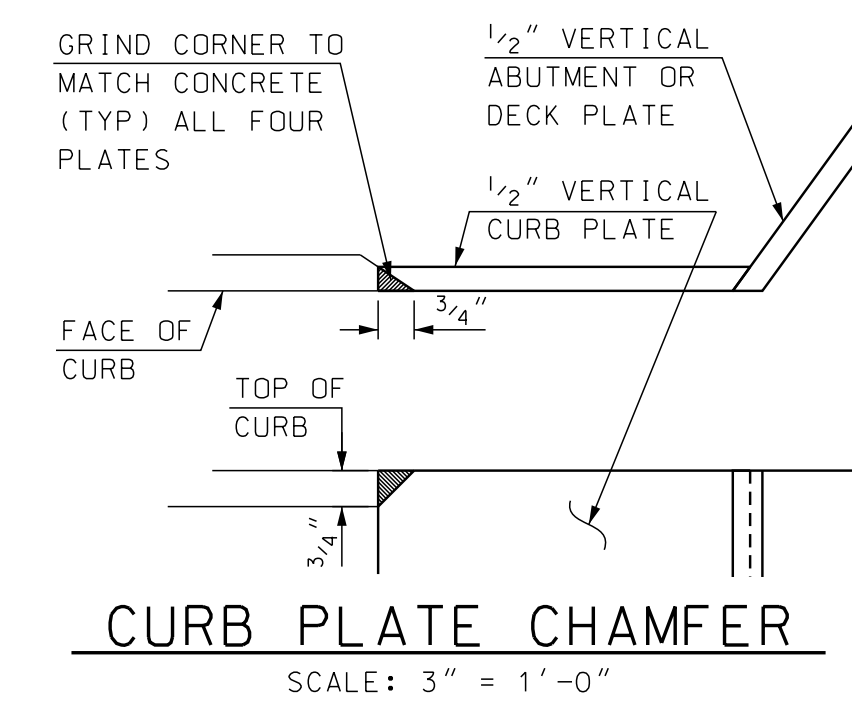
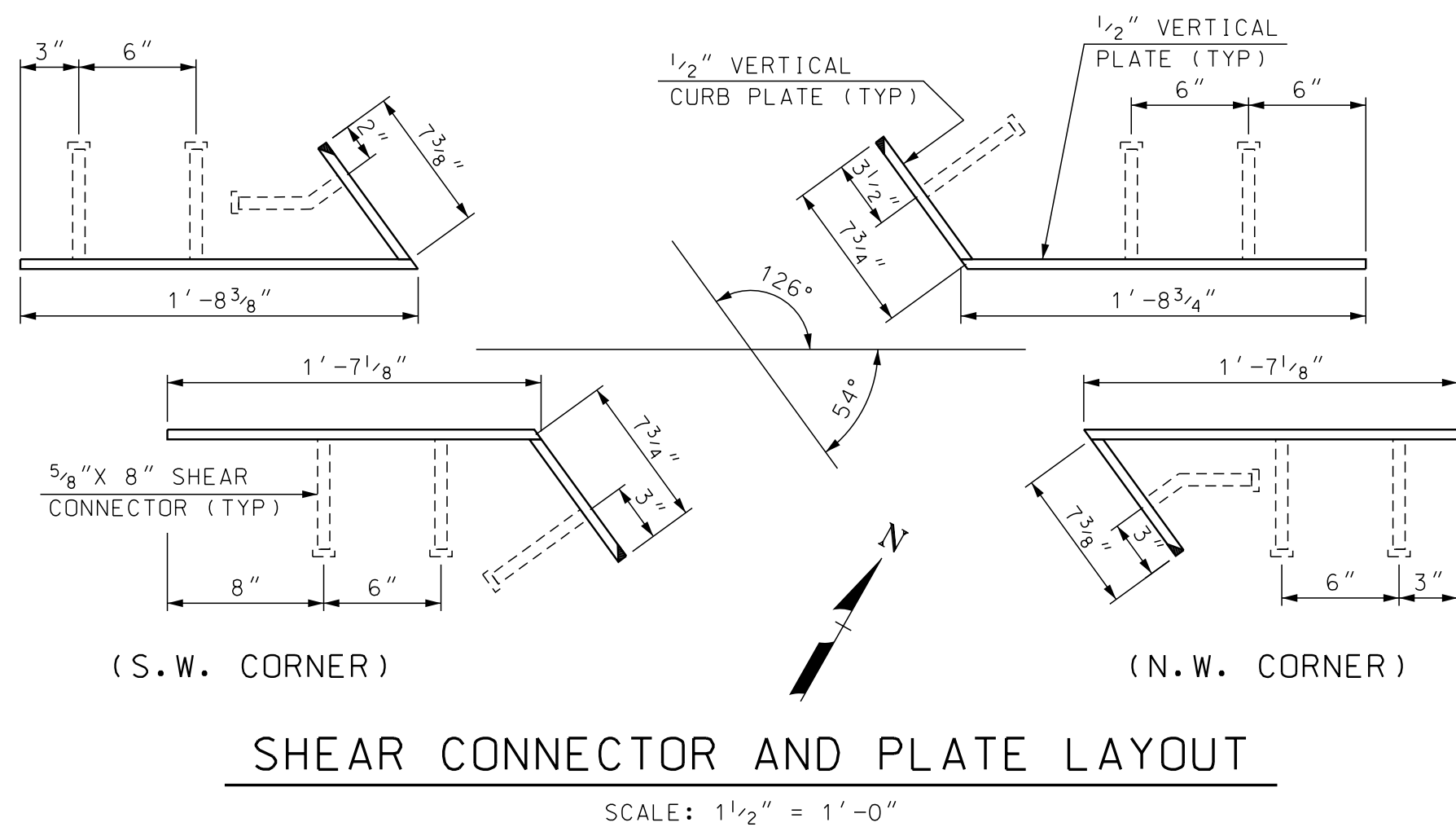
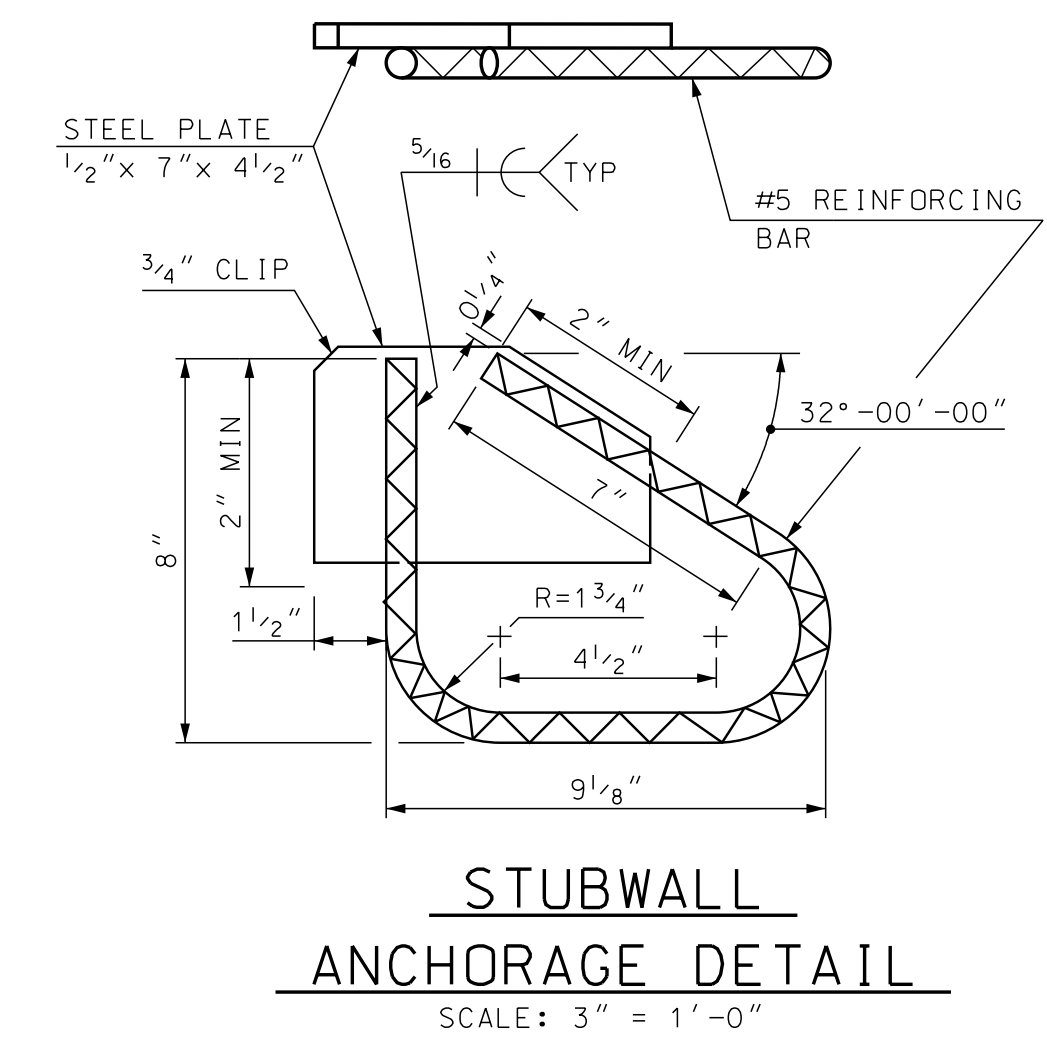
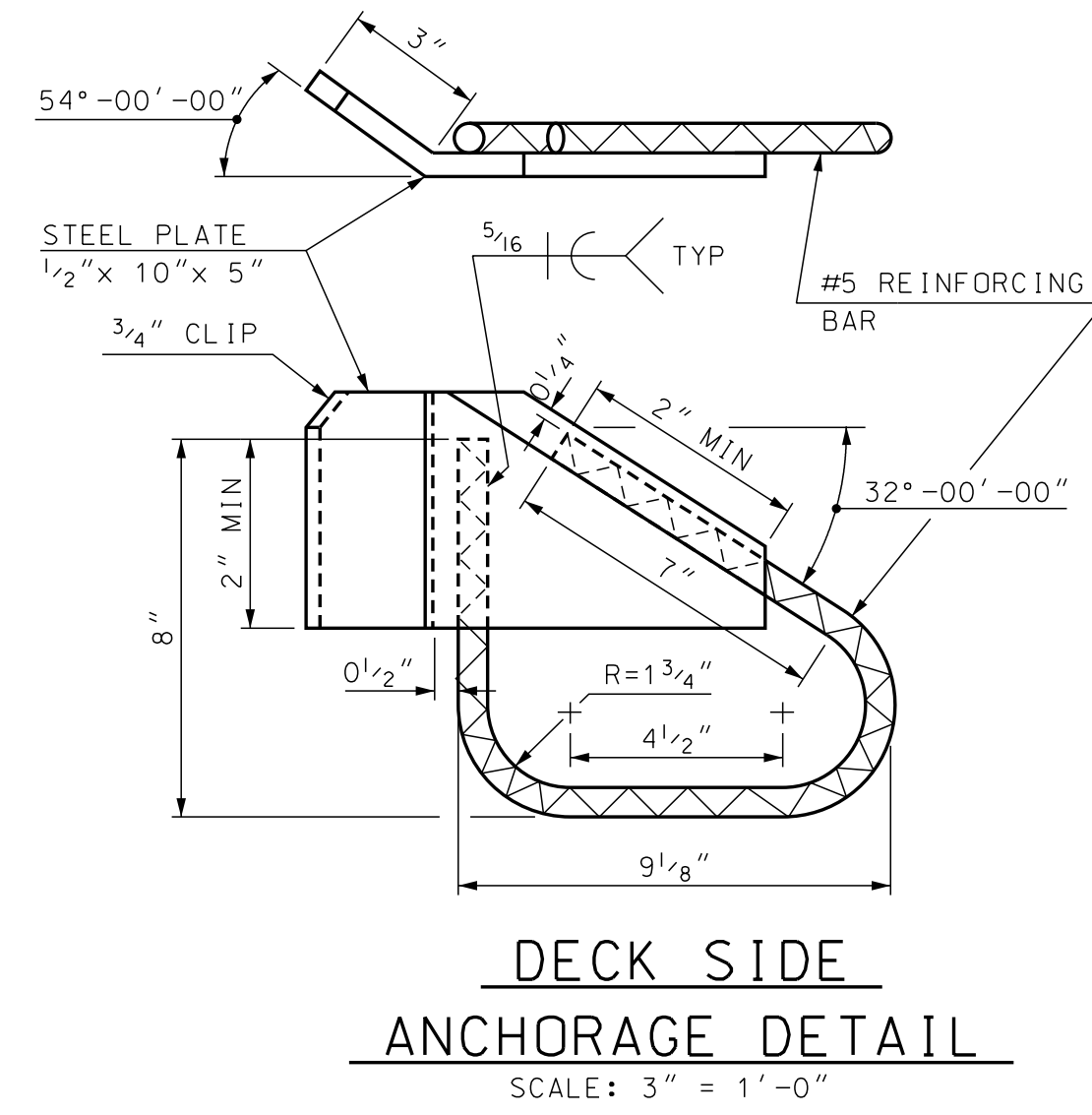
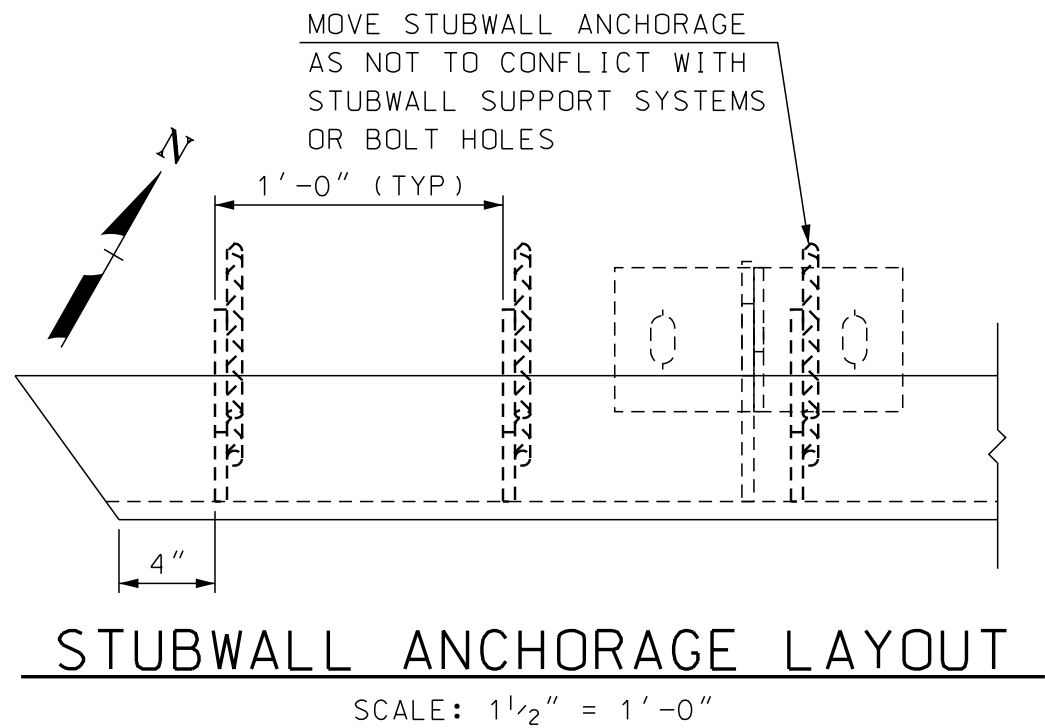
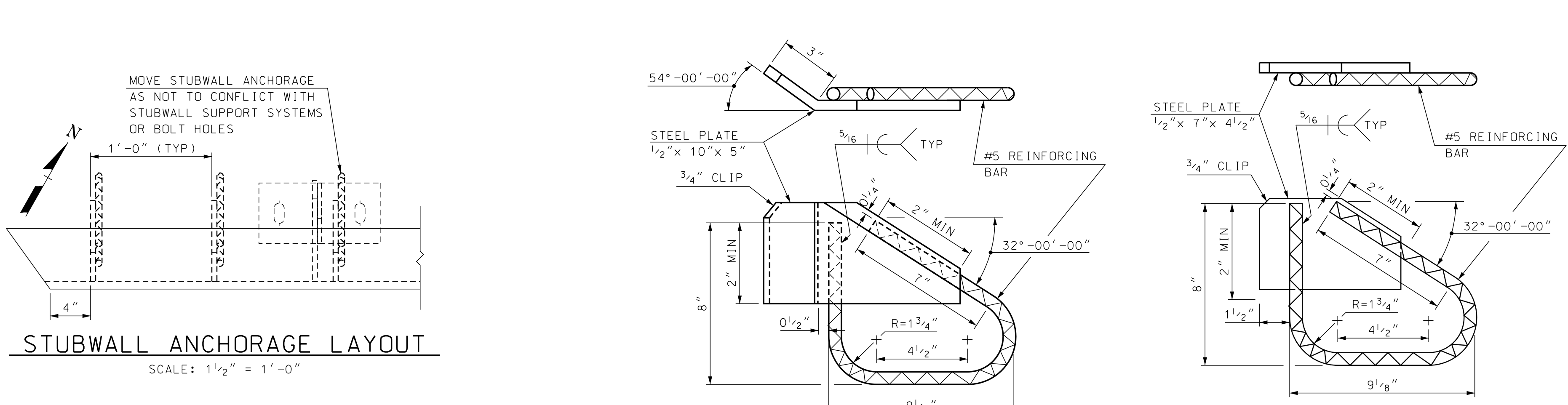
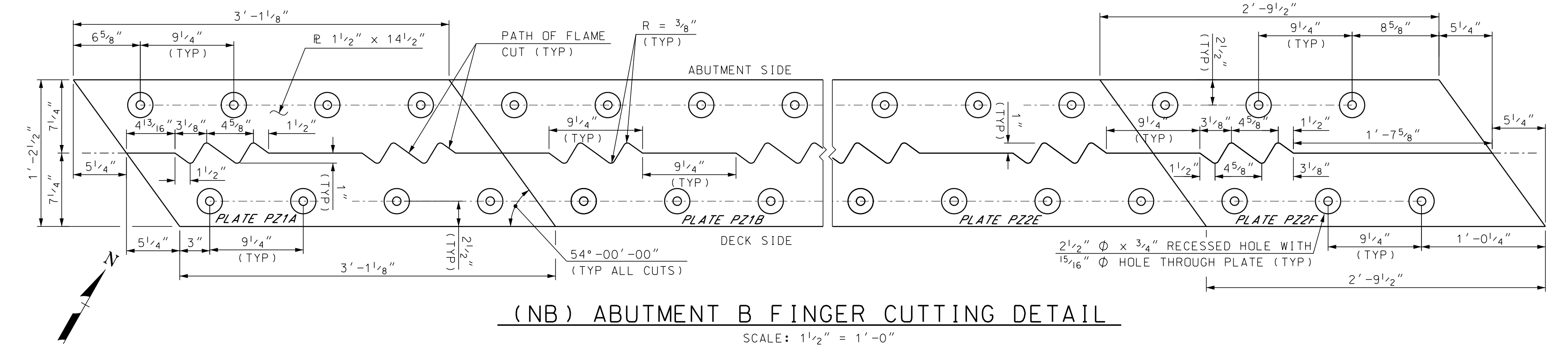
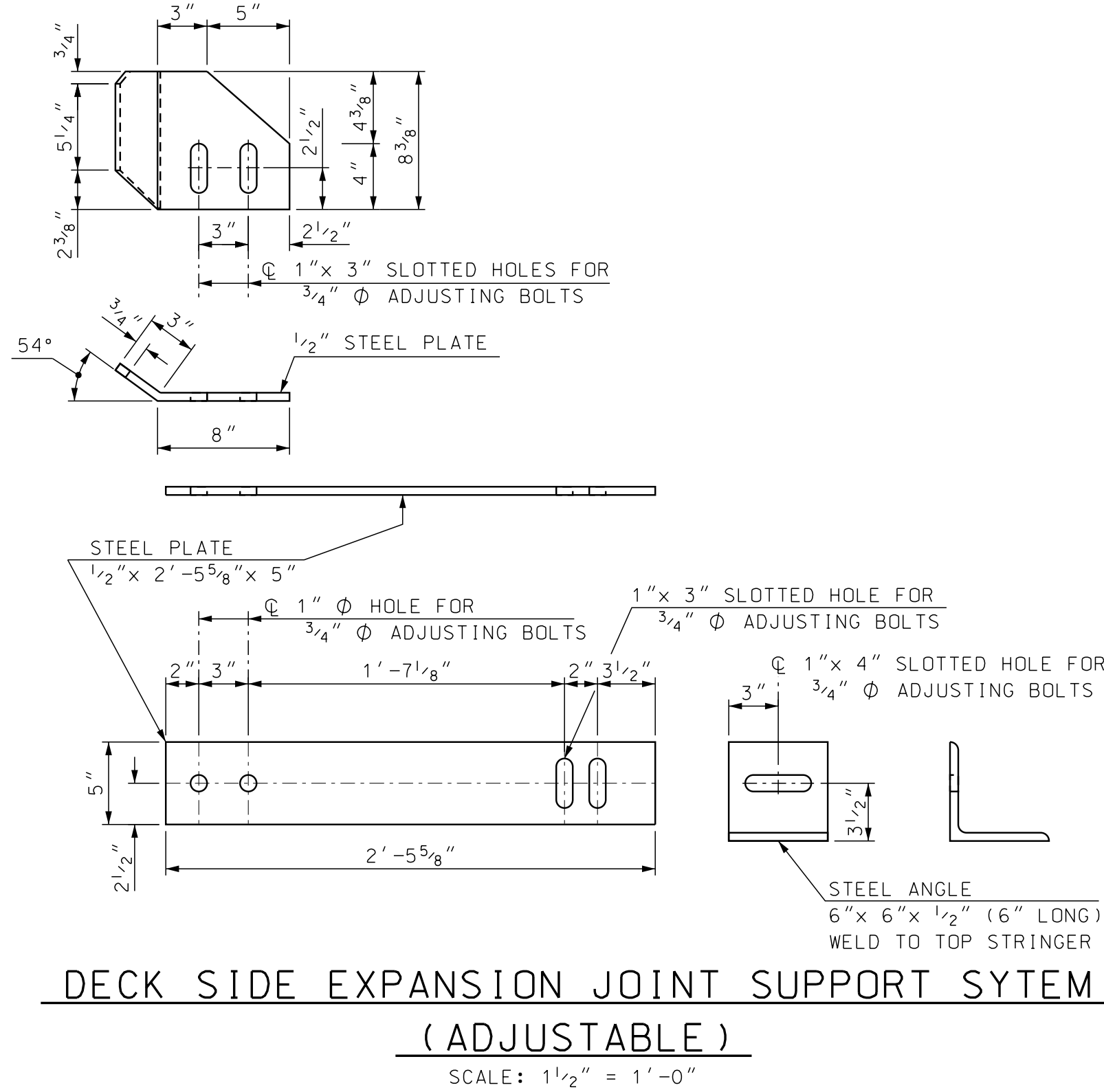
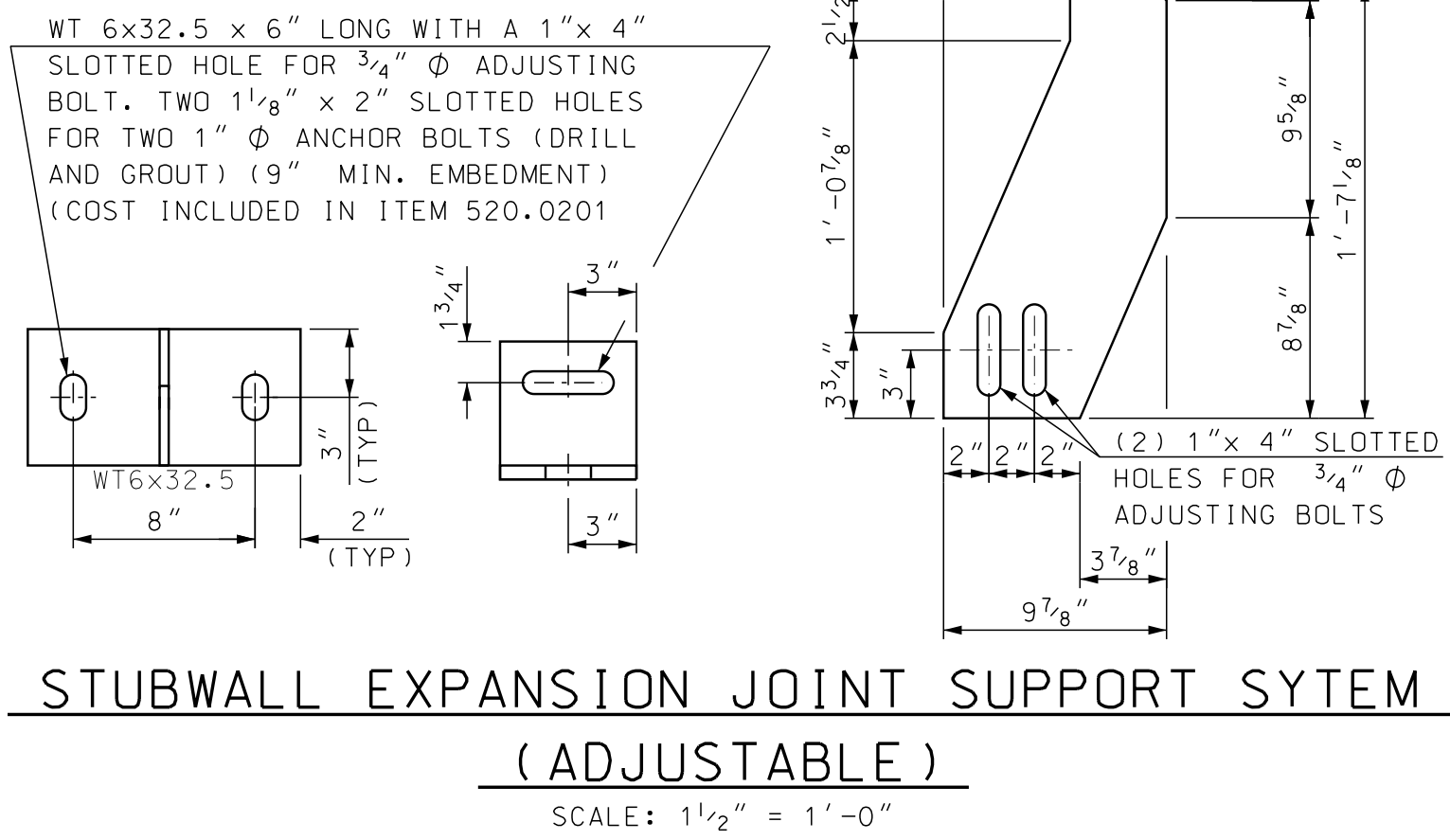
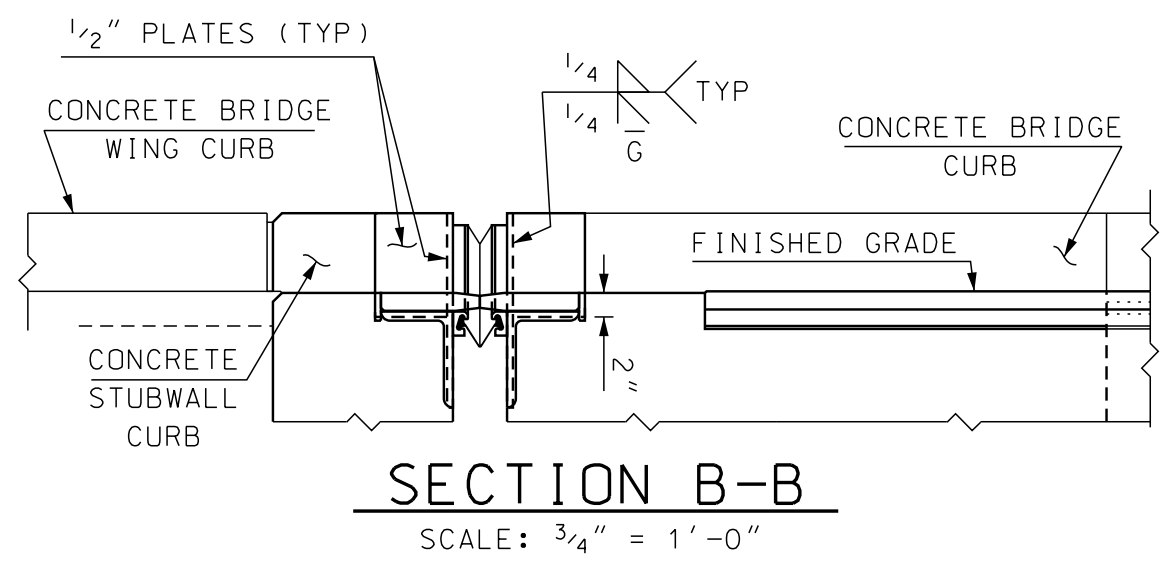
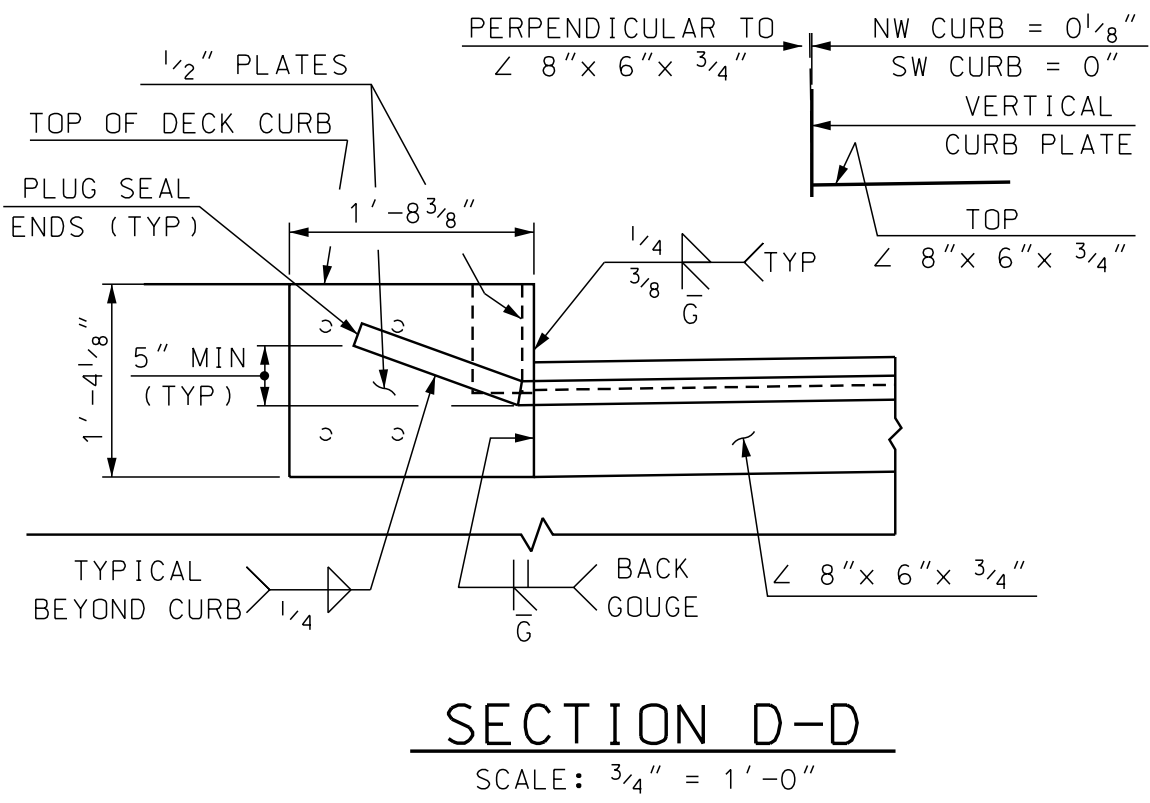
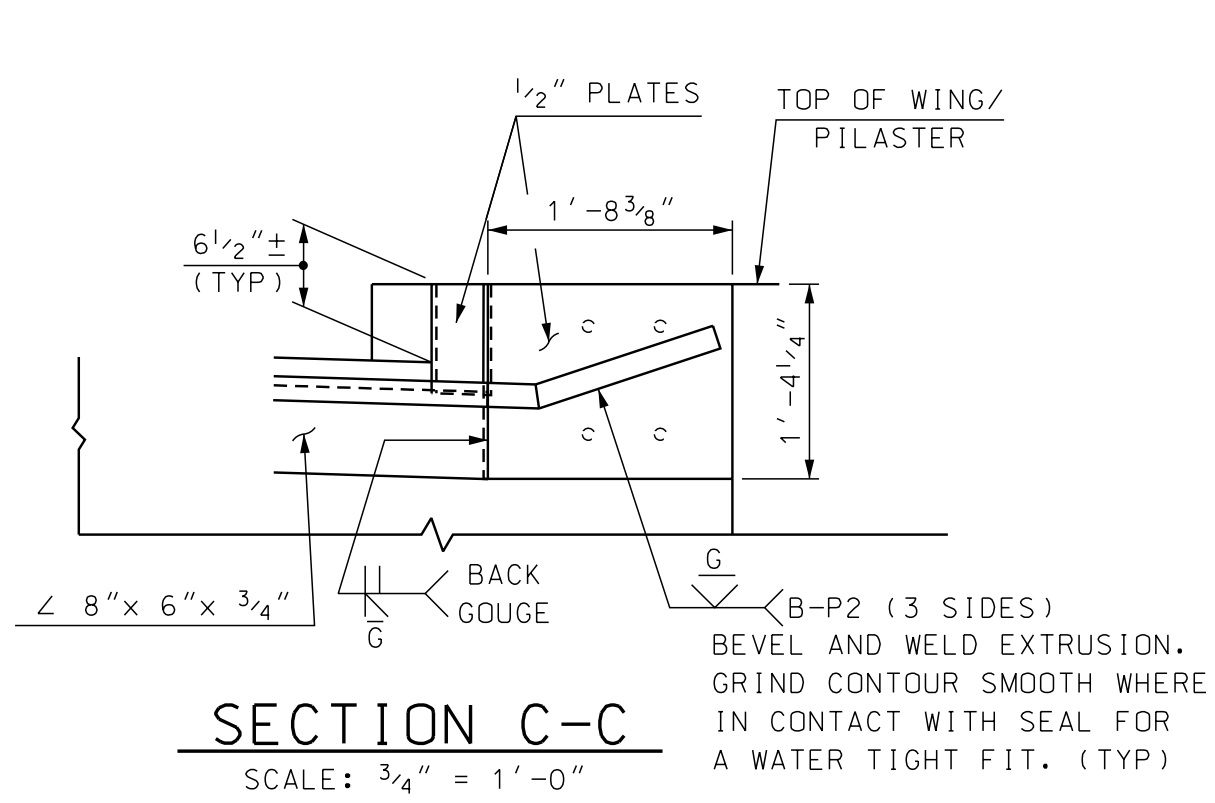
LOCATION NORTHBOUND I-89 OVER KING HILL ROAD

ABUT. B EXPANSION JOINT (1 OF 2) BR. NO. 124/059

DESIGNED	CKN	8/21	CHECKED	WPS	8/21
DRAWN	GMC	8/21	CHECKED	CKN	8/21
QUANTITIES	GMC	8/21	CHECKED	GMC	8/21

BRIDGE SHEET 22 OF 36
FILE NUMBER 140-3-1
TOTAL SHEETS 162

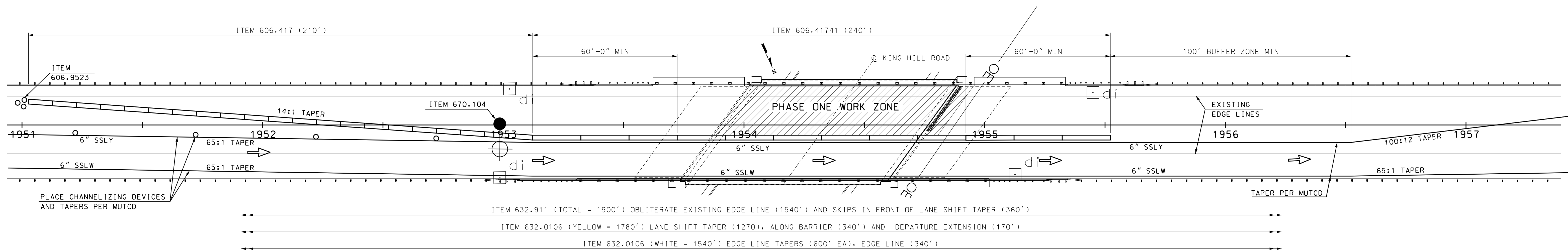
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	NB124-059EXPJT	AS NOTED



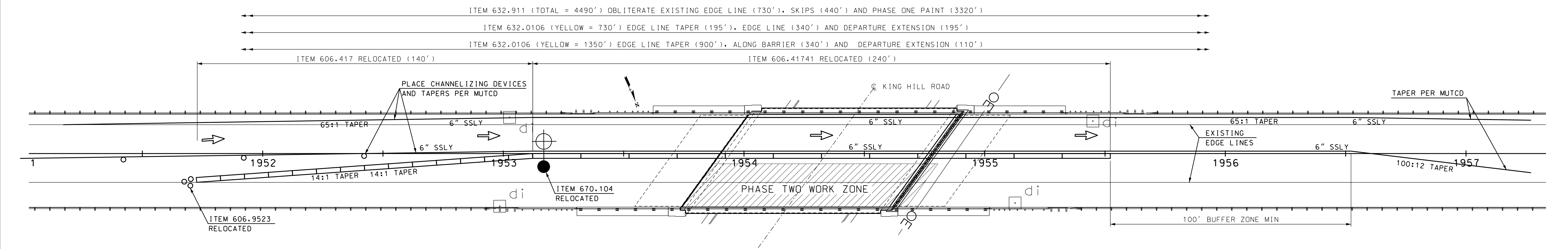
NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511
LOCATION NORTHBOUND I-89 OVER KING HILL ROAD					
ABUT. B EXPANSION JOINT (2 OF 2) BR. NO. 124/059					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					23 OF 36
DESIGNED	CKN	8/21	CHECKED	WPS	8/21
DRAWN	GMC	8/21	CHECKED	CKN	8/21
QUANTITIES	GMC	8/21	CHECKED	GMC	8/21
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			119	162

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRCKing Hill Rd	NB124-059EXPJT	AS NOTED



PHASE 1 BARRIER LAYOUT



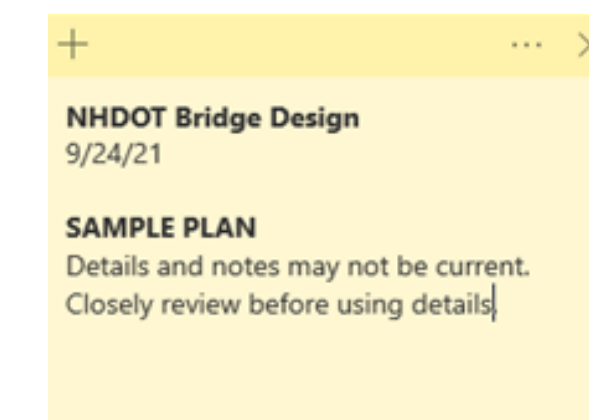
PHASE 2 BARRIER LAYOUT

ALL RELOCATED QUANTITIES ARE SUBSIDIARY TO THE ITEM REFERENCED

PHASE 3 NOTES

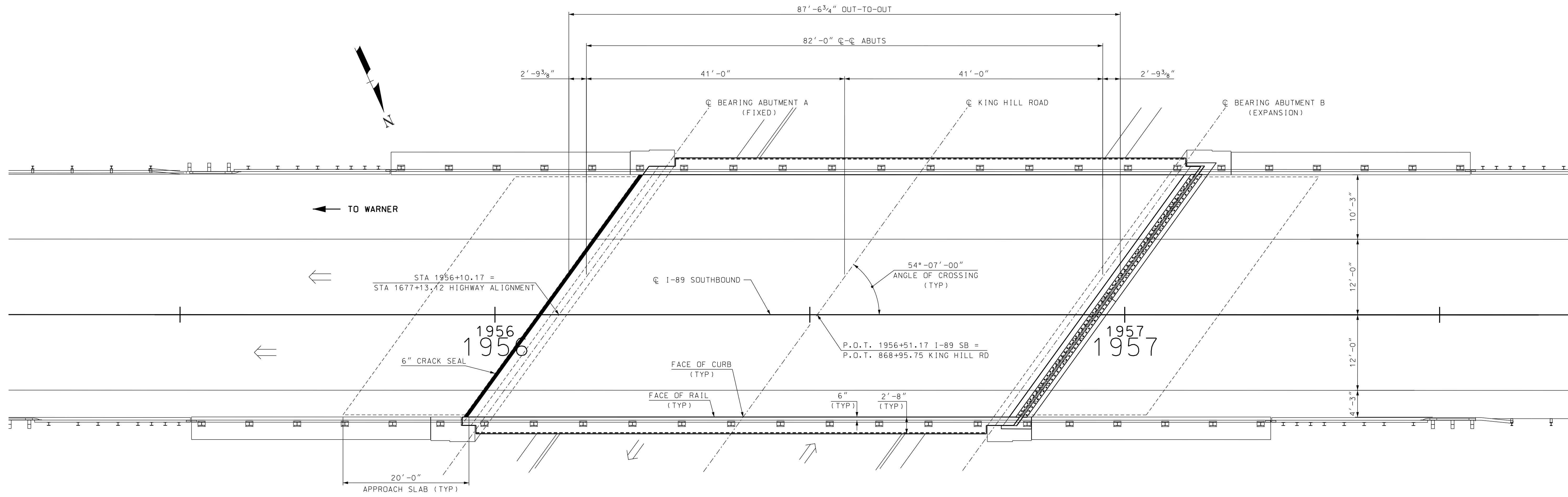
- RESTORE PAVEMENT MARKINGS TO ORIGINAL LAYOUT.
- ITEM 632.911 (TOTAL = 8470') OBLITERATE PHASE 2 MARKINGS (2080')
- ITEM 632.0106 (WHITE = 2310') RIGHT EDGE LINE (1840') AND SKIPS (470')
- ITEM 632.0106 (YELLOW = 1810') LEFT EDGE LINE (1810')

NOTE:
CHANNELIZING DEVICES NOT SHOWN.
SEE THE MUTCD 2009 EDITION AND
NHDOT WORK ZONE TRAFFIC CONTROL
STANDARD PLANS FOR LAYOUT.



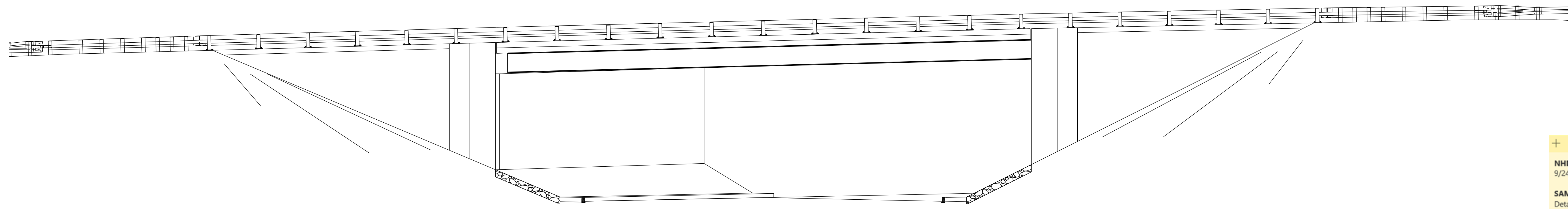
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
40511 KingHillTraffic	NB124-059Traffic	1" = 20'-0"

STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/059	STATE PROJECT	40511				
LOCATION 1-89 NORTHBOUND over KING HILL ROAD									
BARRIER LAYOUT BR NO 124/059									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	WPS	DATE	BRIDGE SHEET		
		DESIGNED	CKN	8/21	CHECKED	WPS	8/21	24 OF 36	
		DRAWN	GMC	8/21	CHECKED	CKN	8/21	FILE NUMBER	
		QUANTITIES	GMC	8/21	CHECKED	GMC	8/21	140-3-1	
ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS				
REV. DATE		-----		120	162				



PLAN

SCALE: 1/8" = 1'-0"



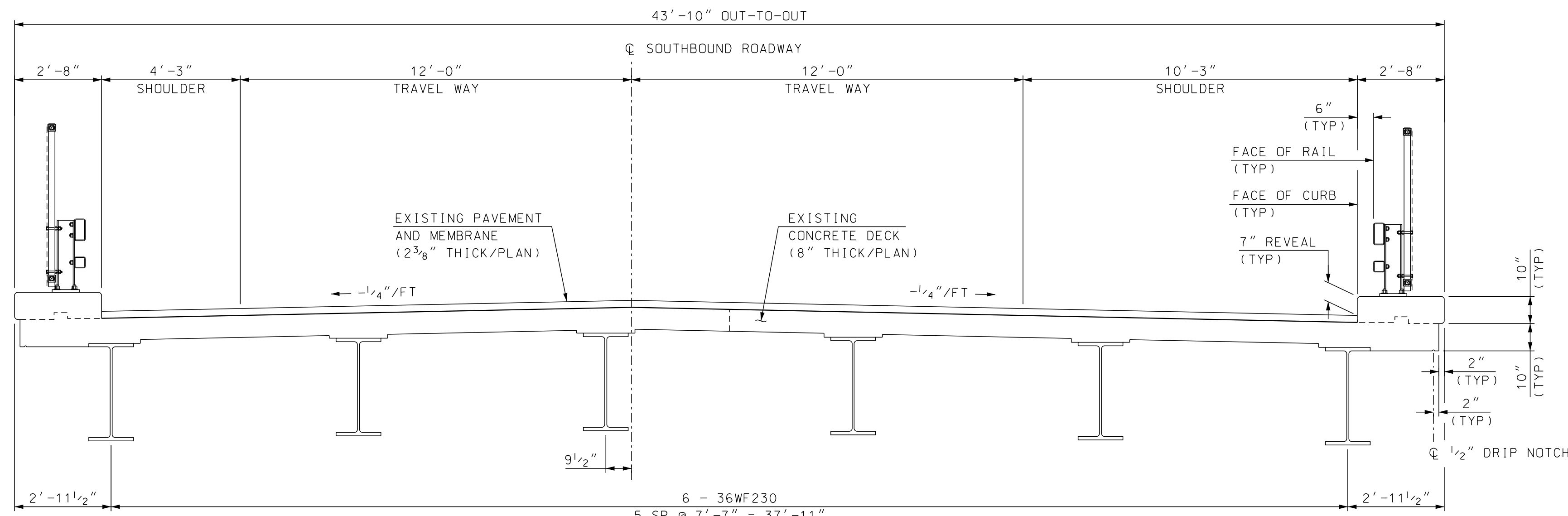
ELEVATION

SCALE: 1/8" = 1'-0"

NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

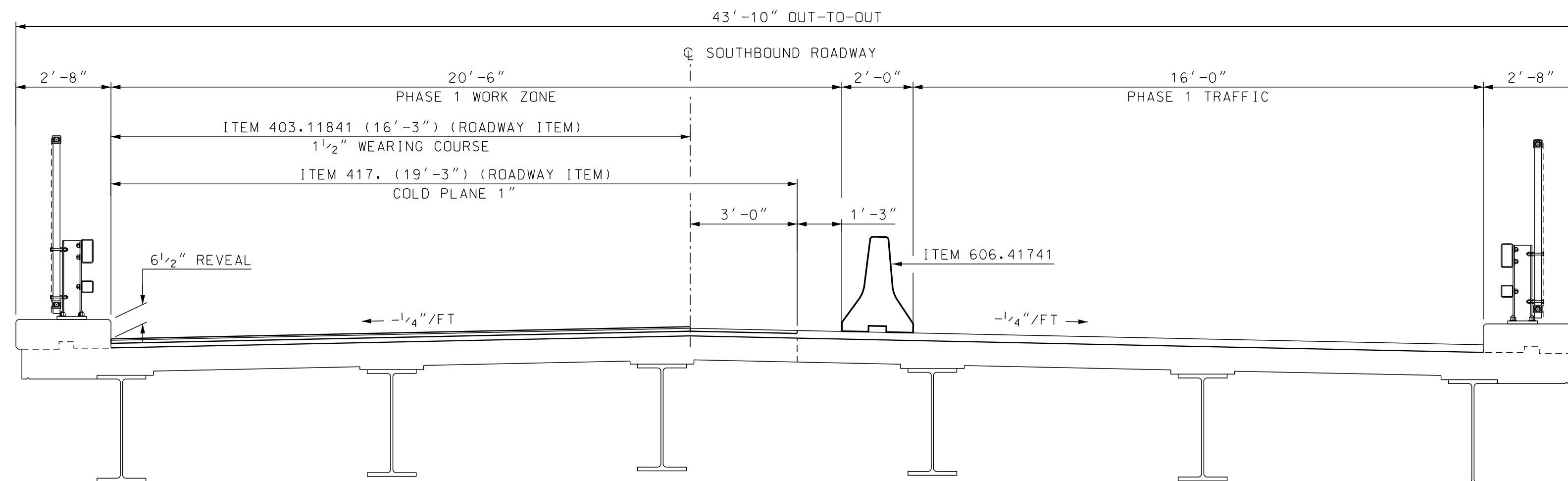
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511				
LOCATION I-89 SOUTHBOUND over KING HILL ROAD									
GENERAL PLAN AND ELEVATION BR NO 124/058								BRIDGE SHEET	25 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	BY	DATE	FILE NUMBER		
		DESIGNED	CKN	8/21	WPS	8/21	140-3-1		
		DRAWN	GMC	8/21	CKN	8/21	TOTAL SHEETS		
		QUANTITIES	GMC	8/21	GMC	8/21	162		
		ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.			
		REV. DATE	-----			121			

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
King Hill Rd	SB124-058 Gen	AS NOTED



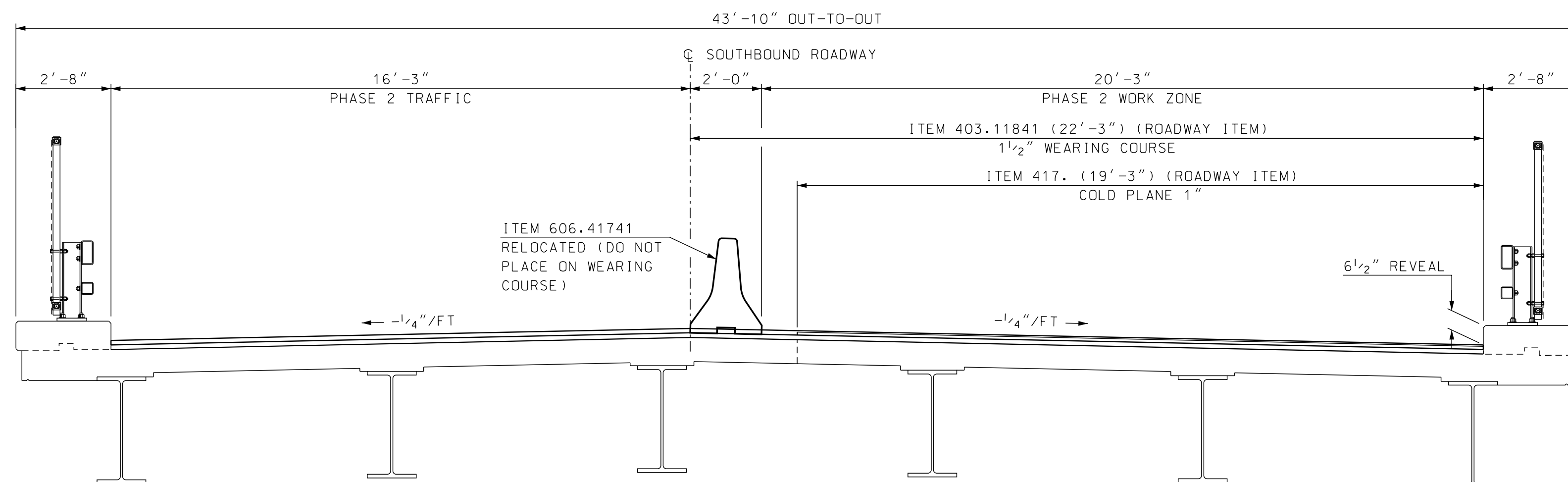
EXISTING CROSS SECTION

(LOOKING DOWNSTATION)
SCALE: 3/8" = 1'-0"



PHASE 1 CONSTRUCTION

(LOOKING DOWNSTATION)
SCALE: 3/8" = 1'-0"



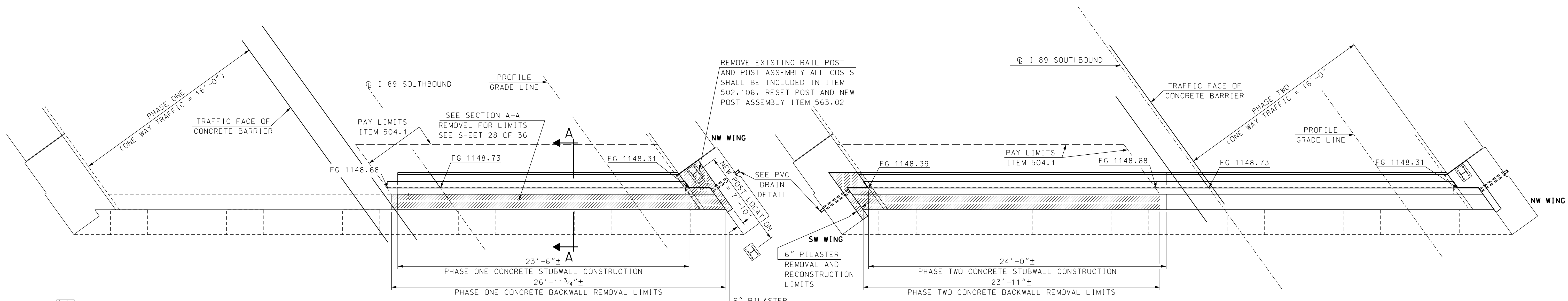
PHASE 2 CONSTRUCTION

(LOOKING DOWNSTATION)
SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511
LOCATION 1-89 SOUTHBOUND over KING HILL ROAD					
DECK PHASING BR NO 124/058					BRIDGE SHEET
REVISIONS AFTER PROPOSAL	BY	DATE	CHECKED	BY	DATE
	DESIGNED		CHECKED		
	DRAWN		CHECKED		
	QUANTITIES		CHECKED		
ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
REV. DATE		-----		122	162

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
King Hill Rd	SB124-058 Deck	AS SHOWN



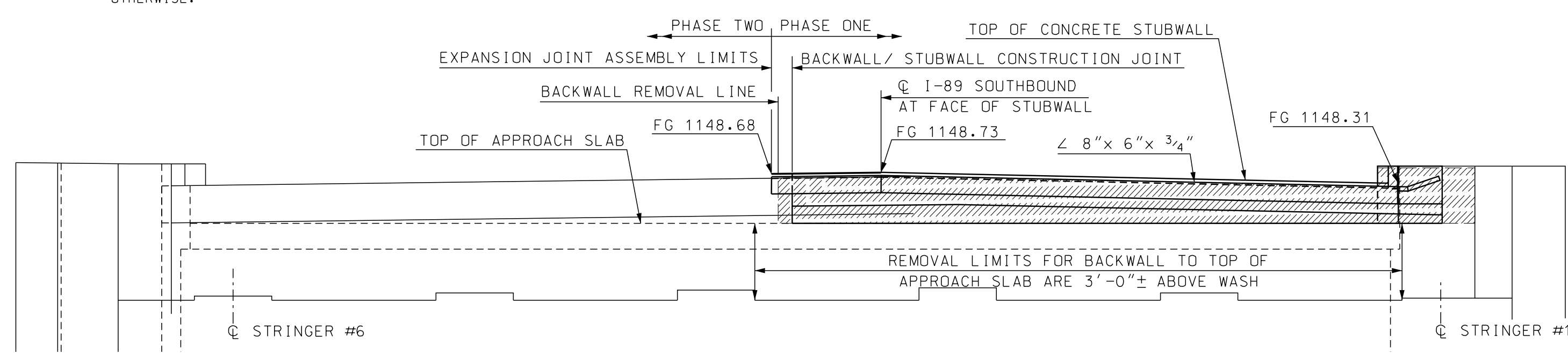
PHASE 1 PLAN ABUTMENT B
SCALE: 1/4" = 1'-0"

PHASE 2 PLAN ABUTMENT B
SCALE: 1/4" = 1'-0"

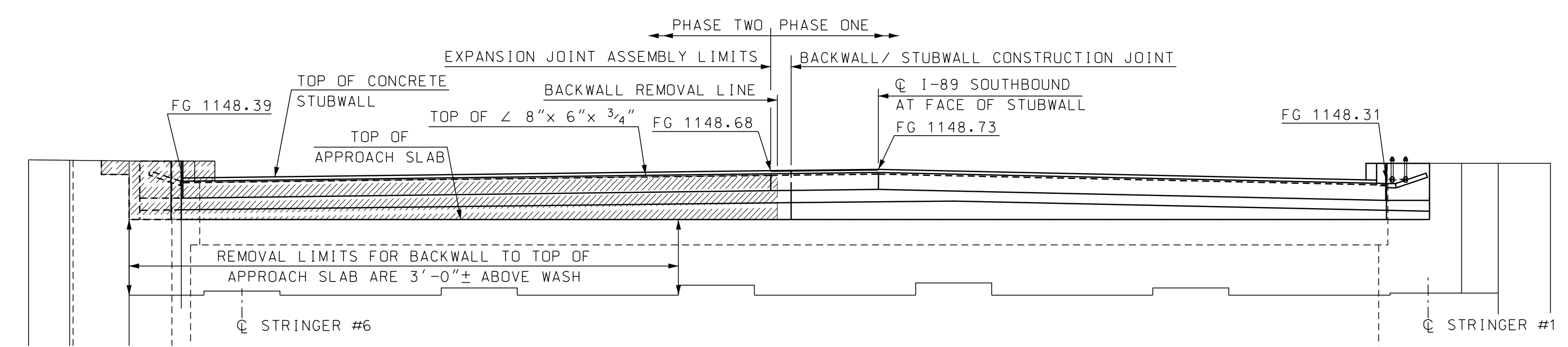
LIMIT OF REMOVAL
 LIMIT OF PROPOSED CONCRETE

NOTES:

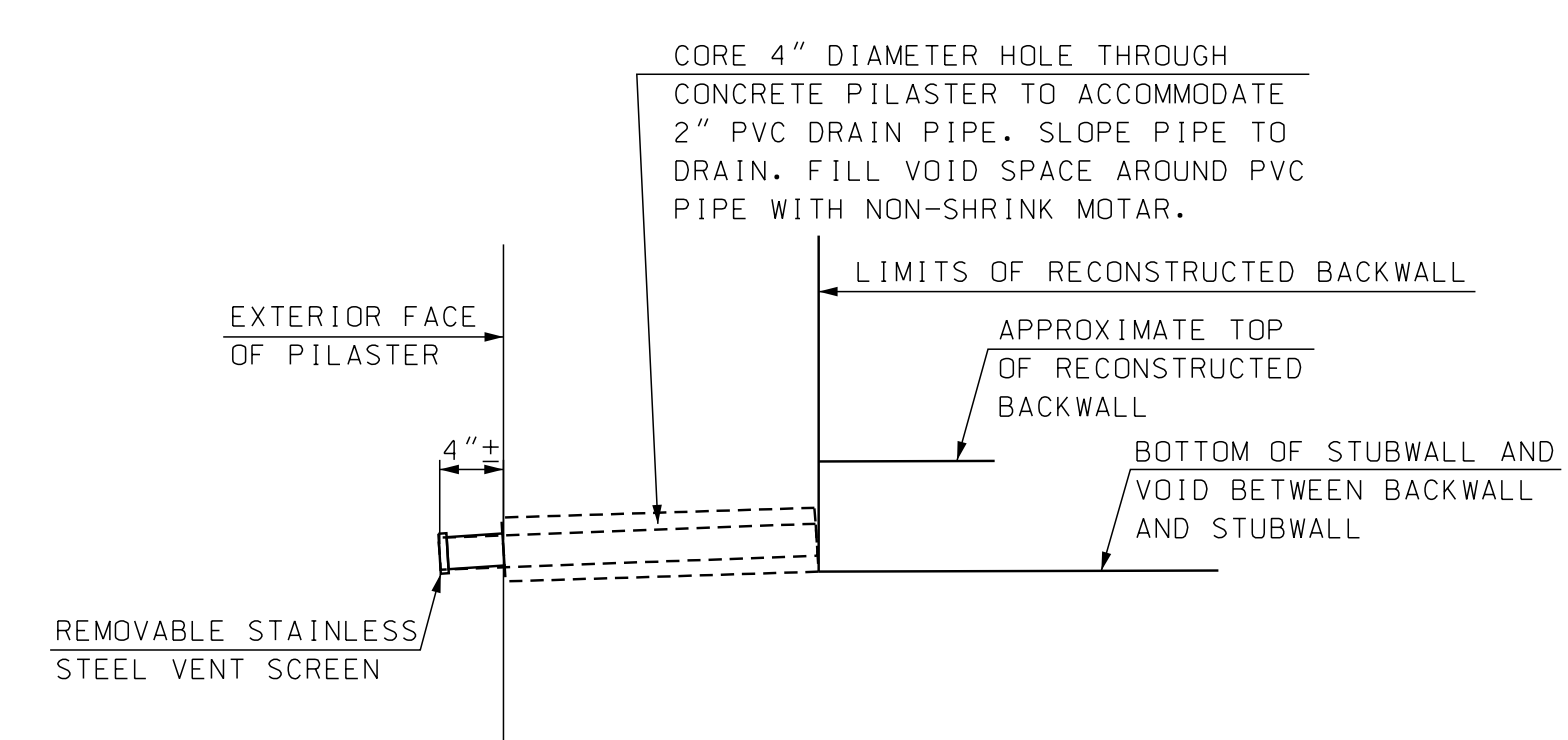
- SEE SECTION A-A REMOVAL AND SECTION A-A CONSTRUCTION ON BRIDGE SHEET 28 & 29 OF 36 FOR FURTHER DETAILS.
- ALL DIMENSIONS ARE GIVEN ALONG FACE OF BACKWALL UNLESS NOTED OTHERWISE.



PHASE 1 ELEVATION ABUTMENT B
SCALE: 1/4" = 1'-0"



PHASE 2 ELEVATION ABUTMENT B
SCALE: 1/4" = 1'-0"



PVC DRAIN FOR EXPANSION JOINT
TYPICAL BOTH CORNERS
(SUBSIDIARY TO ITEM 520.0201)
(NOT TO SCALE)

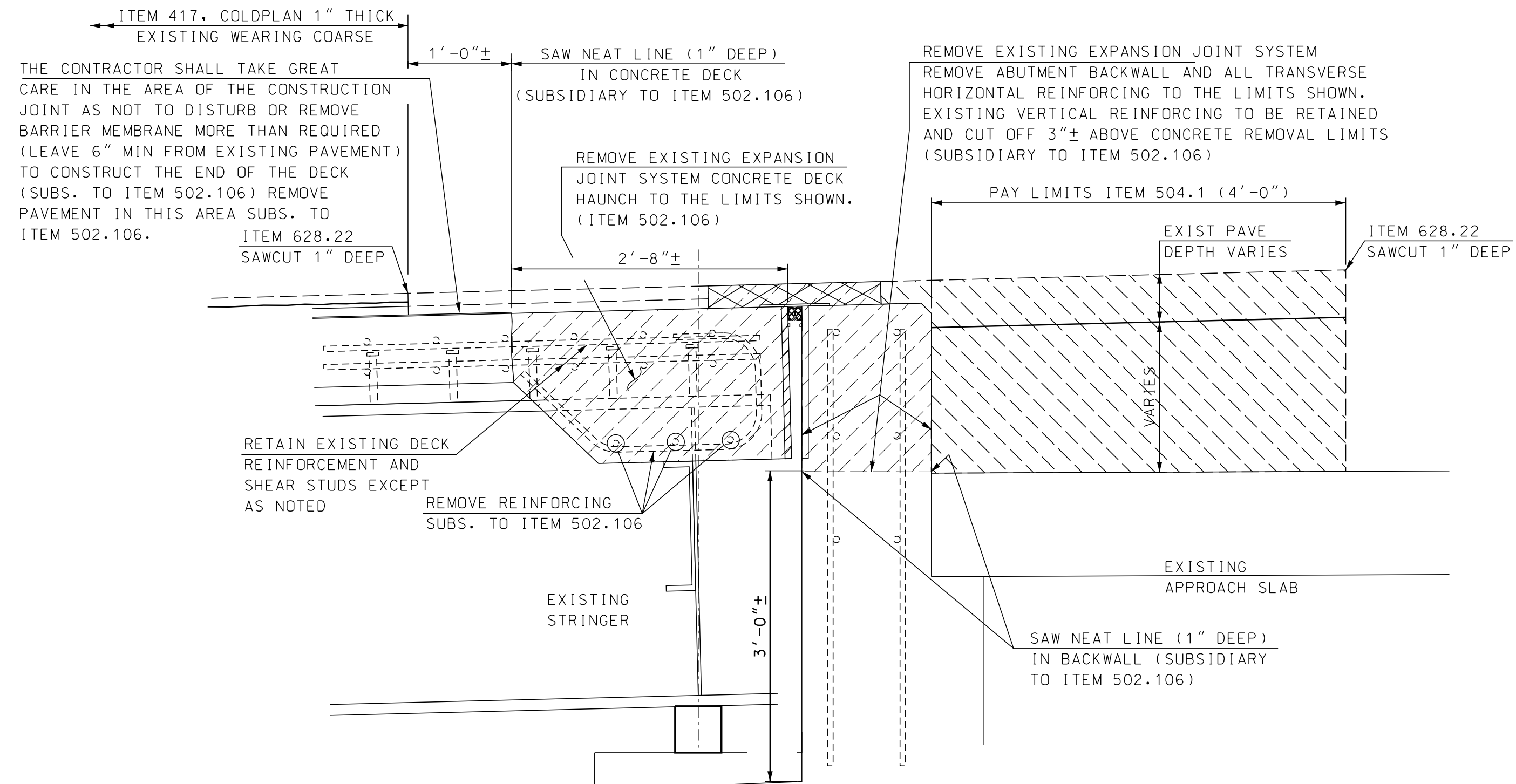
+ ... X
NHDOT Bridge Design
 9/24/21
SAMPLE PLAN
 Details and notes may not be current.
 Closely review before using details

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511
LOCATION 1-89 SOUTHBOUND OVER KING HILL ROAD					
ABUT B RECONSTRUCTION BR. NO. 124/058					BRIDGE SHEET
					27 OF 36
					FILE NUMBER
					140-3-1
					TOTAL SHEETS
					162

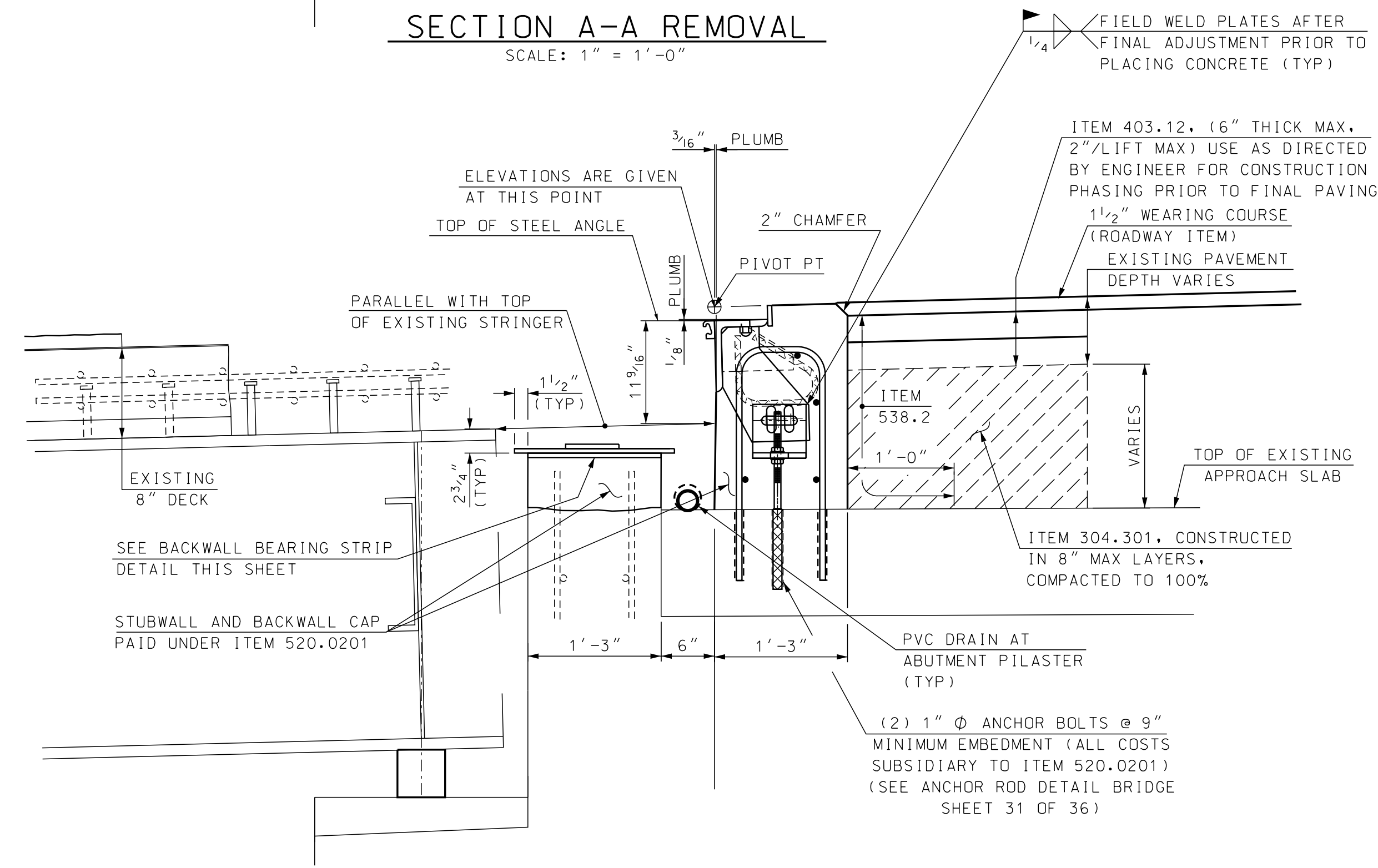
DESIGNED	CKN	8/21	CHECKED	WPS	8/21
DRAWN	GMC	8/21	CHECKED	CKN	8/21
QUANTITIES	GMC	8/21	CHECKED	GMC	8/21
ISSUE DATE			FEDERAL PROJECT NO.		SHEET NO.
REV. DATE					123

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	SB124-058/AbutB	AS NOTED

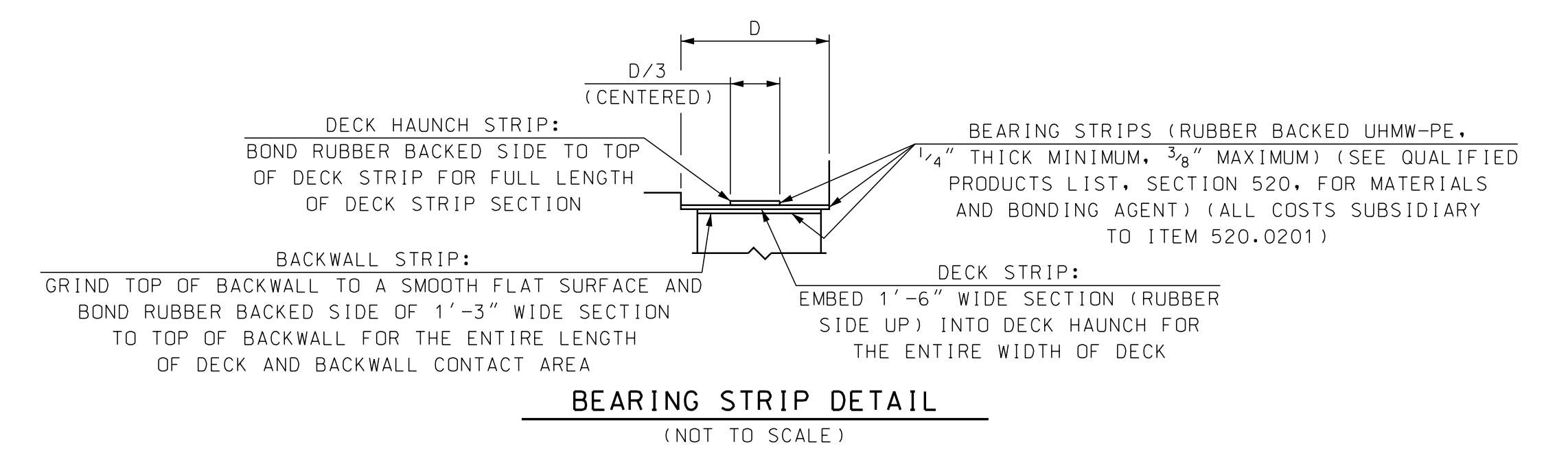
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	SB124-058/AbutB	AS NOTED



SECTION A-A REMOVAL
SCALE: 1" = 1'-0"



SECTION A-A BACK/ STUBWALL CONSTRUCTION
SCALE: 1" = 1'-0"



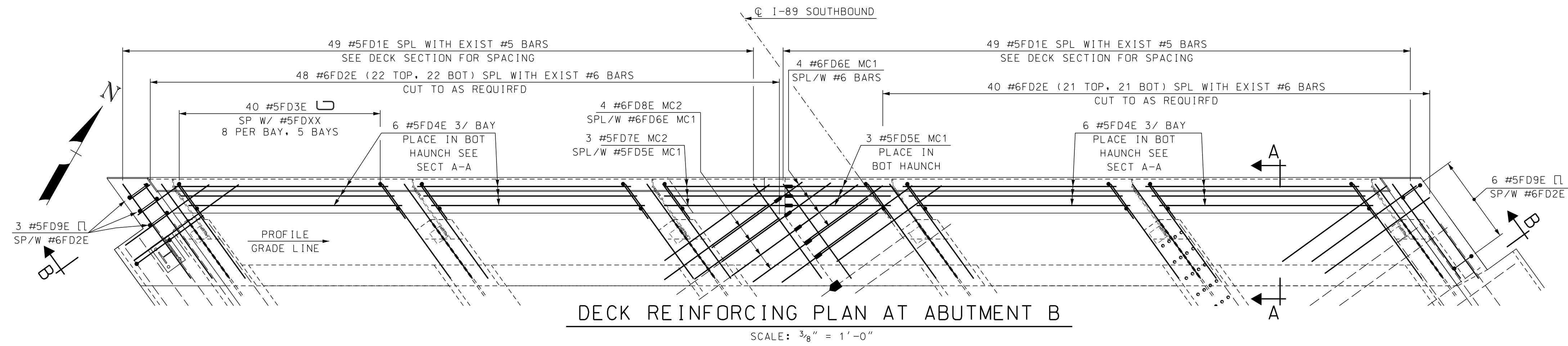
BEARING STRIP DETAIL
(NOT TO SCALE)

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

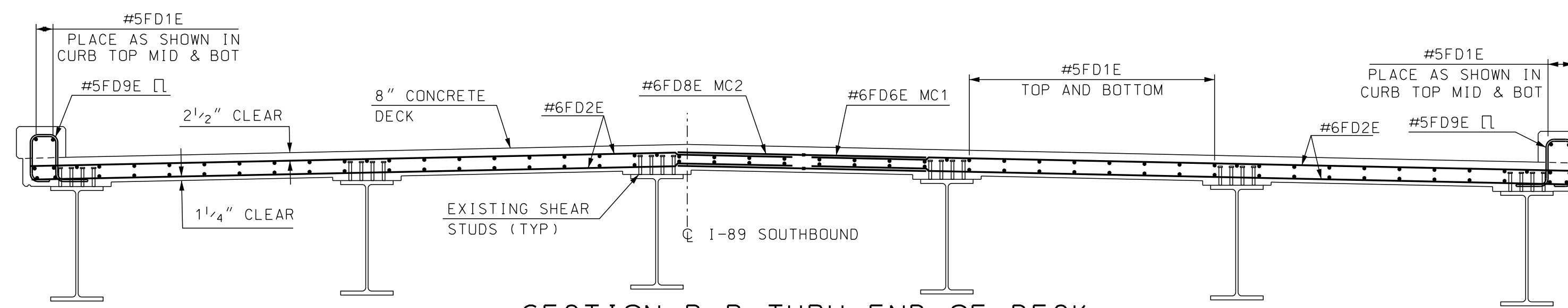
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511				
LOCATION I-89 SOUTHBOUND OVER KING HILL ROAD									
ABUT B RECONSTRUCTION DETAILS BR. NO. 124/058									
REVISIONS AFTER PROPOSAL		BY	DATE	BY	DATE	BRIDGE SHEET			
		DESIGNED	CKN 8/21	CHECKED	WPS 8/21	28 OF 36			
		DRAWN	GMC 8/21	CHECKED	CKN 8/21	FILE NUMBER			
		QUANTITIES	GMC 8/21	CHECKED	GMC 8/21	140-3-1			
		ISSUE DATE		FEDERAL PROJECT NO.		SHEET NO.		TOTAL SHEETS	
		REV. DATE		-----		124		162	

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	SB124-058/AbutB	AS NOTED



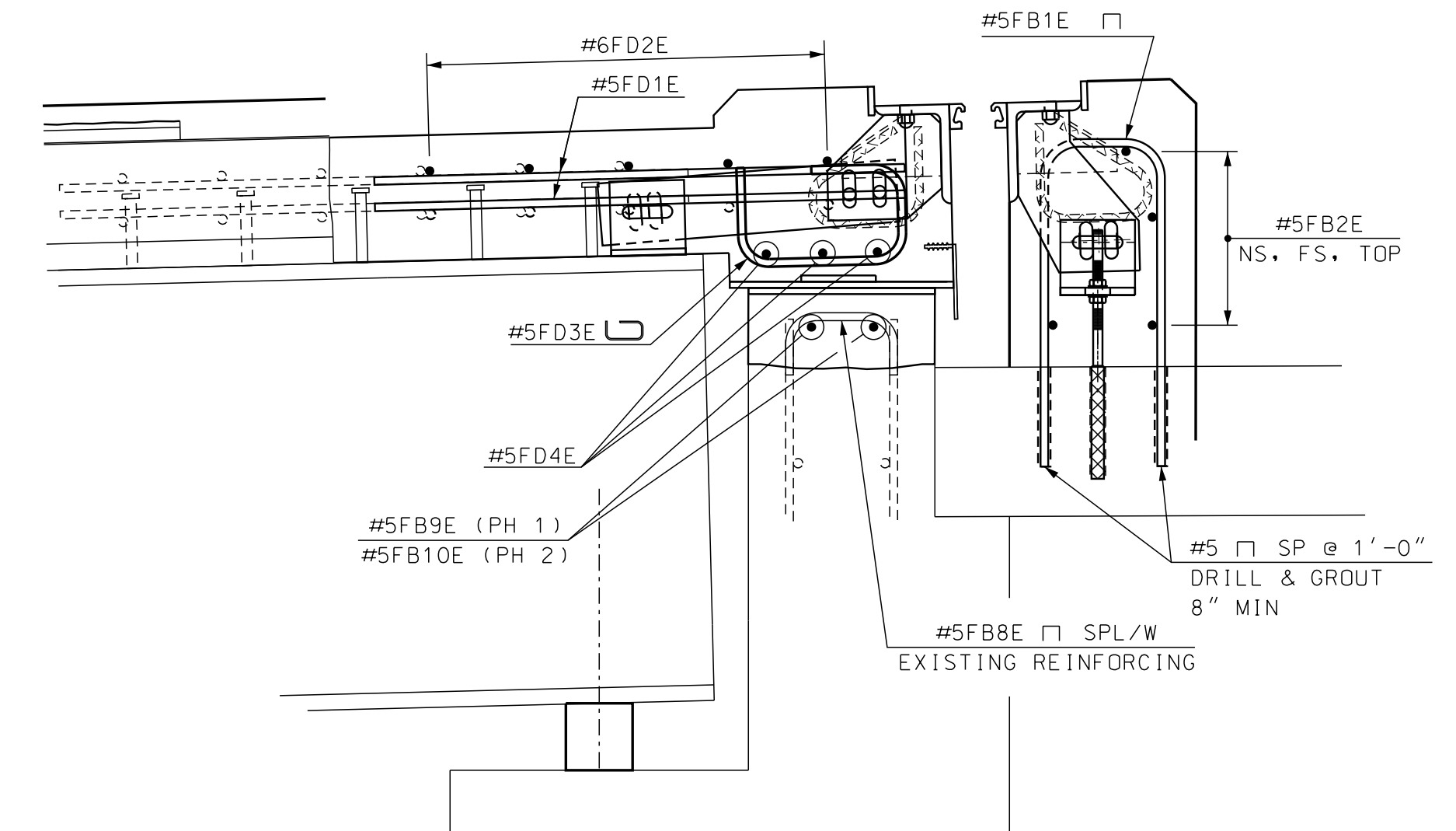
DECK REINFORCING PLAN AT ABUTMENT B

SCALE: 3/8" = 1'-0"



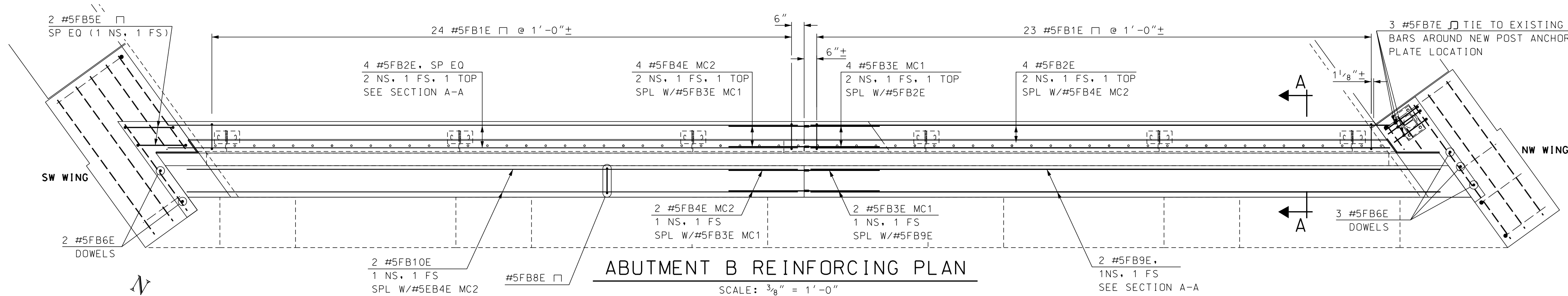
SECTION B-B THRU END OF DECK

(NOT TO SCALE) (REFERENCE ONLY)



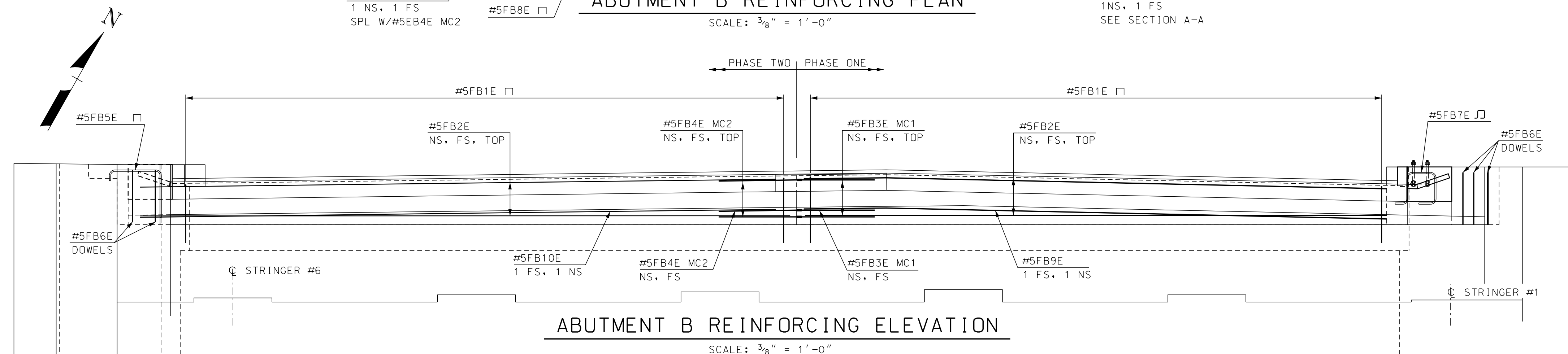
SECTION A-A

SCALE: 1" = 1'-0"



ABUTMENT B REINFORCING PLAN

SCALE: 3/8" = 1'-0"

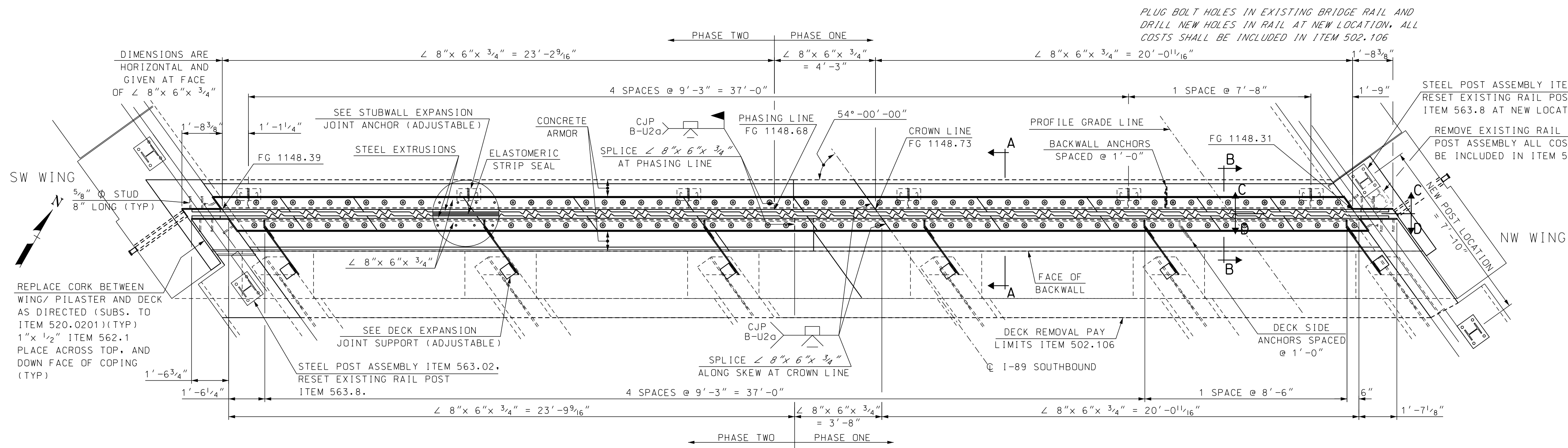


ABUTMENT B REINFORCING ELEVATION

SCALE: 3/8" = 1'-0"

NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

STATE OF NEW HAMPSHIRE											
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN											
TOWN	NEW LONDON	BRIDGE NO.	124/58	STATE PROJECT	40511						
LOCATION I-89 SOUTHBOUND OVER KING HILL ROAD											
REINFORCING PLAN BR. NO. 124/058										BRIDGE SHEET	29 OF 36
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	DATE						
		DESIGN	CKN	8/21	WPS	8/21					
		DRAWN	GMC	8/21	CKN	8/21					
		QUANTITIES	GMC	8/21	GMC	8/21					
		ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.					
		REV. DATE	-----			125					
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE									
BRC/King Hill Rd	SB124-058Brein	AS NOTFD									
TOTAL SHEETS 162											

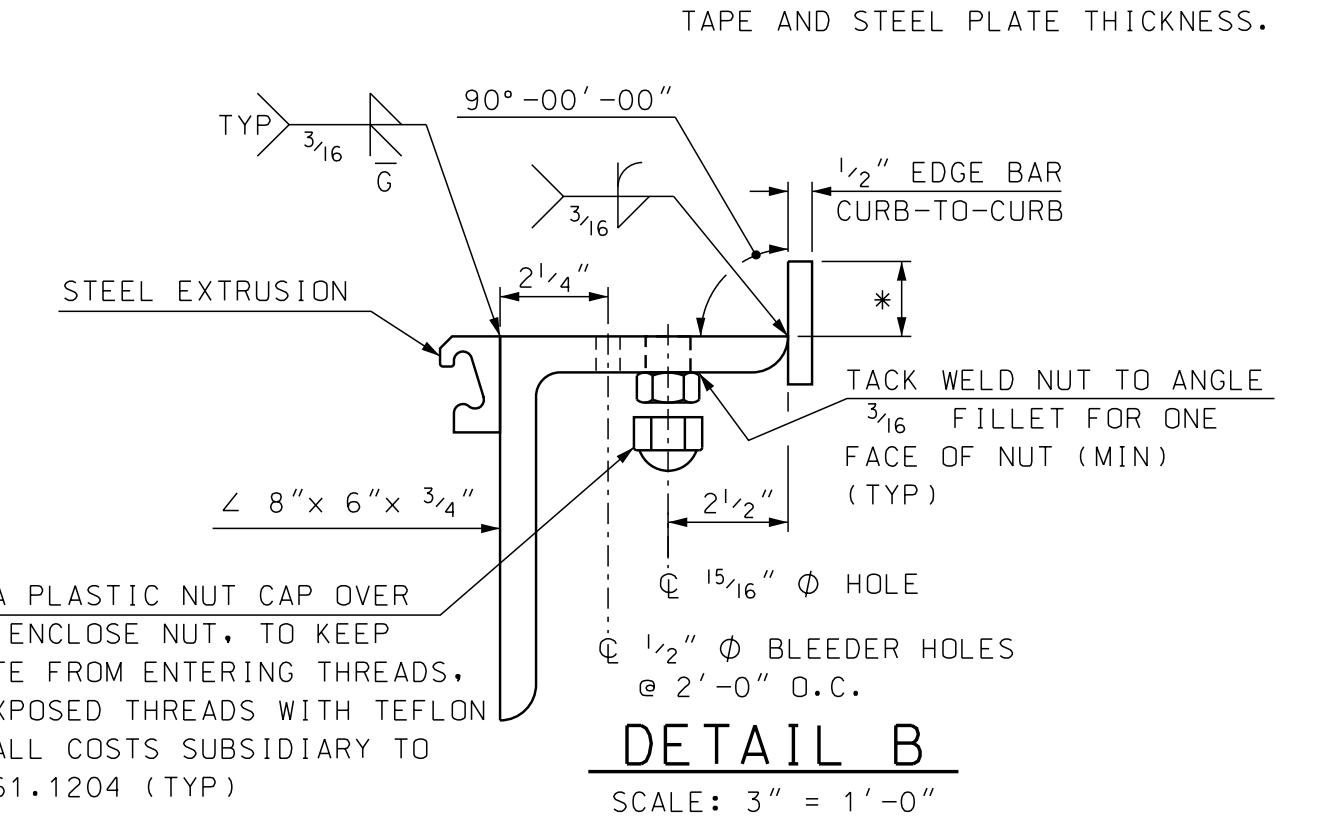


PLAN - ABUTMENT B - EXPANSION JOINT (BR. NO. 124/058)

SCALE: 3/8" = 1'-0"

DETAIL A

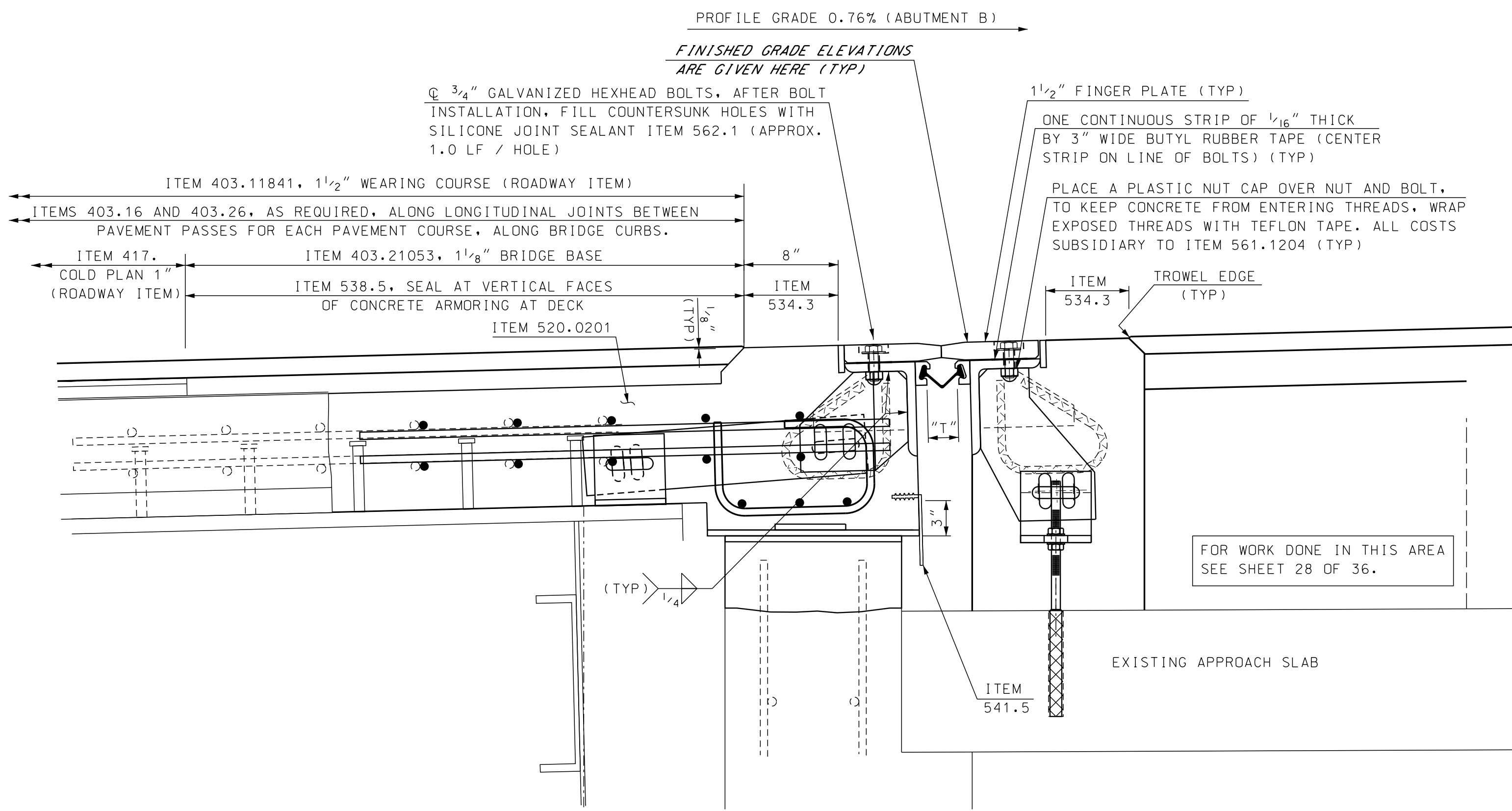
SCALE: 3" = 1'-0"



EXPANSION JOINT NOTES

- ALL EXPANSION JOINT STEEL SHALL BE GALVANIZED. STEEL ANGLES AND PLOW PLATES SHALL BE ASTM A572 GRADE 50. MINOR STEEL PLATES AND EXTRUSIONS MAY CONFORM TO ASTM A36. THE ENTIRE ASSEMBLY, INCLUDING STRIP SEAL, SHALL BE PAID FOR AS ITEM 561.1204, PREFABRICATED STRIP SEAL EXPANSION JOINT W/ PLOW PLATES (F).
- SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.
- EXPANSION JOINT SHALL BE PRESET TO THE TEMPERATURE ANTICIPATED AT THE TIME OF INSTALLATION. FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE CONTRACT ADMINISTRATOR (SEE TEMPERATURE ADJUSTMENT TABLE & NOTES).
- THE STRIP SEAL SHALL BE FURNISHED IN ONE CONTINUOUS LENGTH. NO SPLICES WILL BE ALLOWED.
- JOINT SUPPORT PLATES AND CURB PLATES SHALL BE SHOP WELDED TO EXPANSION JOINT STEEL AND SHALL BE VERTICAL AFTER THE JOINT ASSEMBLY HAS BEEN ADJUSTED FOR ROADWAY CROSS-SLOPE AND GRADE.
- REMOVE SHIPPING DEVICES IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL, AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION 550.
- PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
- THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF 3/4 INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN OR A2R-400 BY D.S. BROWN
- NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED.
- THE FINGER PLATES SHALL BE CUT FROM ONE CONTINUOUS 1'-2 1/2" WIDE x 1 1/2" THICK PLATE, AS SHOWN ON THE FINGER PLATE PLAN, AND FURNISHED IN 12 LENGTHS.

NOTE:
FOR SECTIONS B-B, C-C, D-D SEE BRIDGE SHEET 31 OF 36.



SECTION A-A RECONSTRUCTION

SCALE: 1/2" = 1'-0"

PHASE CONSTRUCTION FIELD WELD SPLICE DETAILS

(NOT TO SCALE)

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
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Closely review before using details

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	2"
35°F	1 7/8"
50°F	1 3/16"
65°F	1 3/4"
80°F	1 11/16"
95°F	1 5/8"

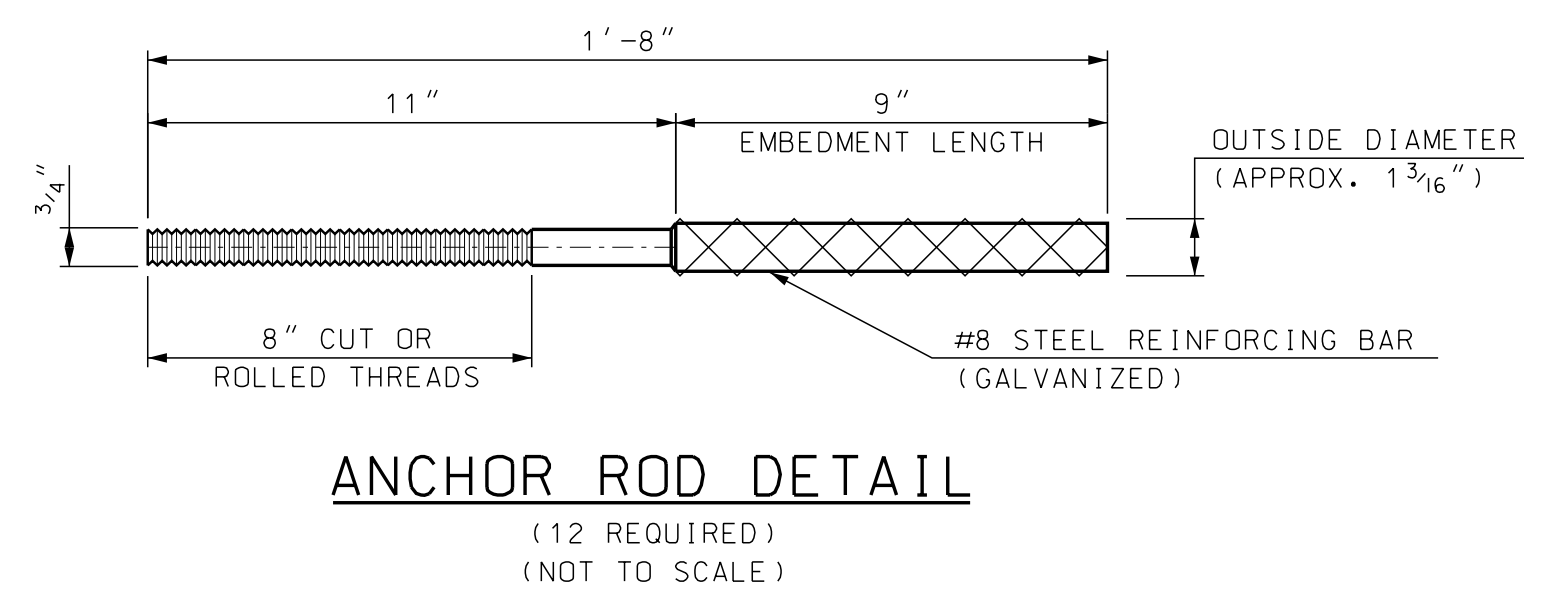
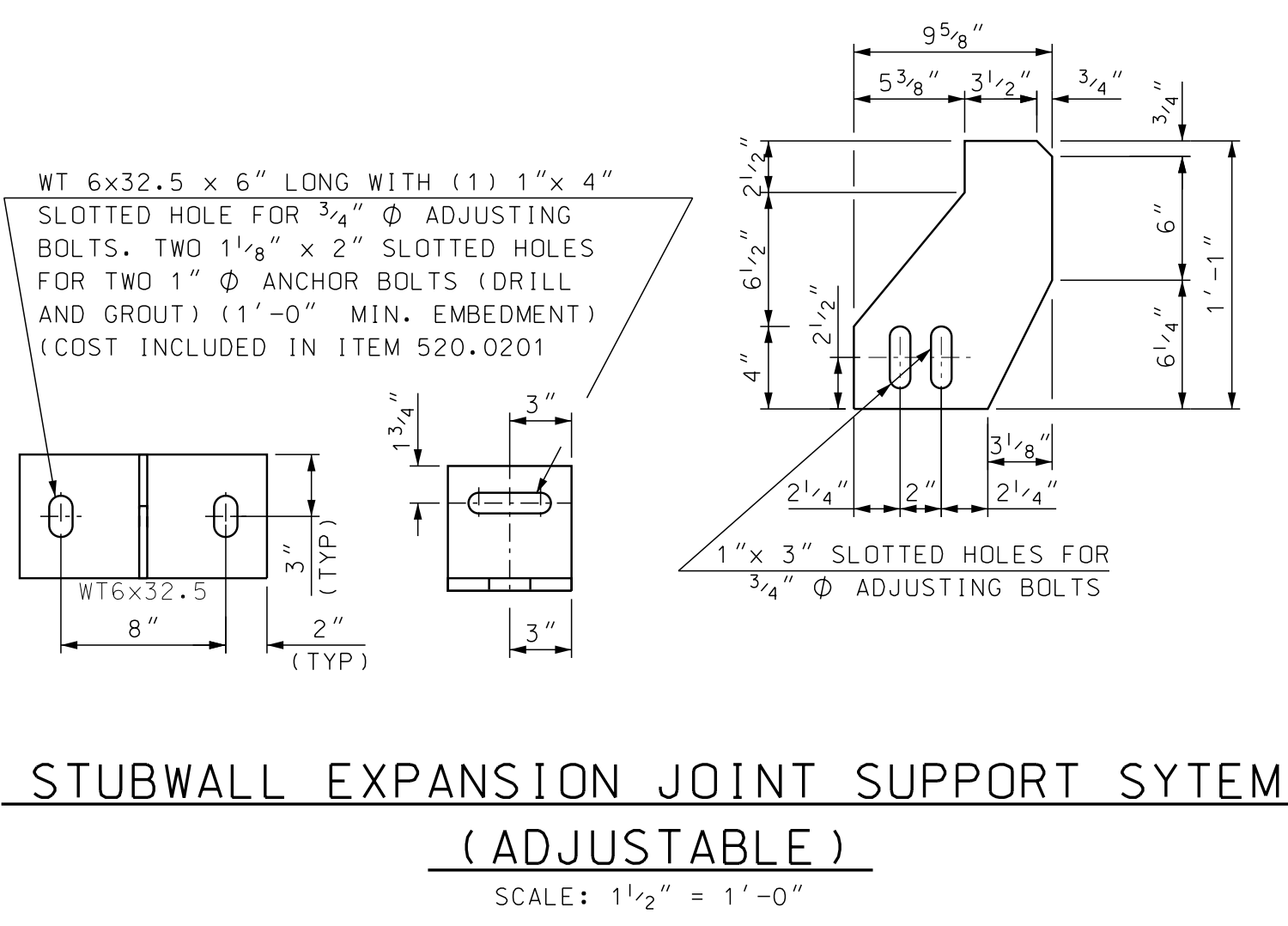
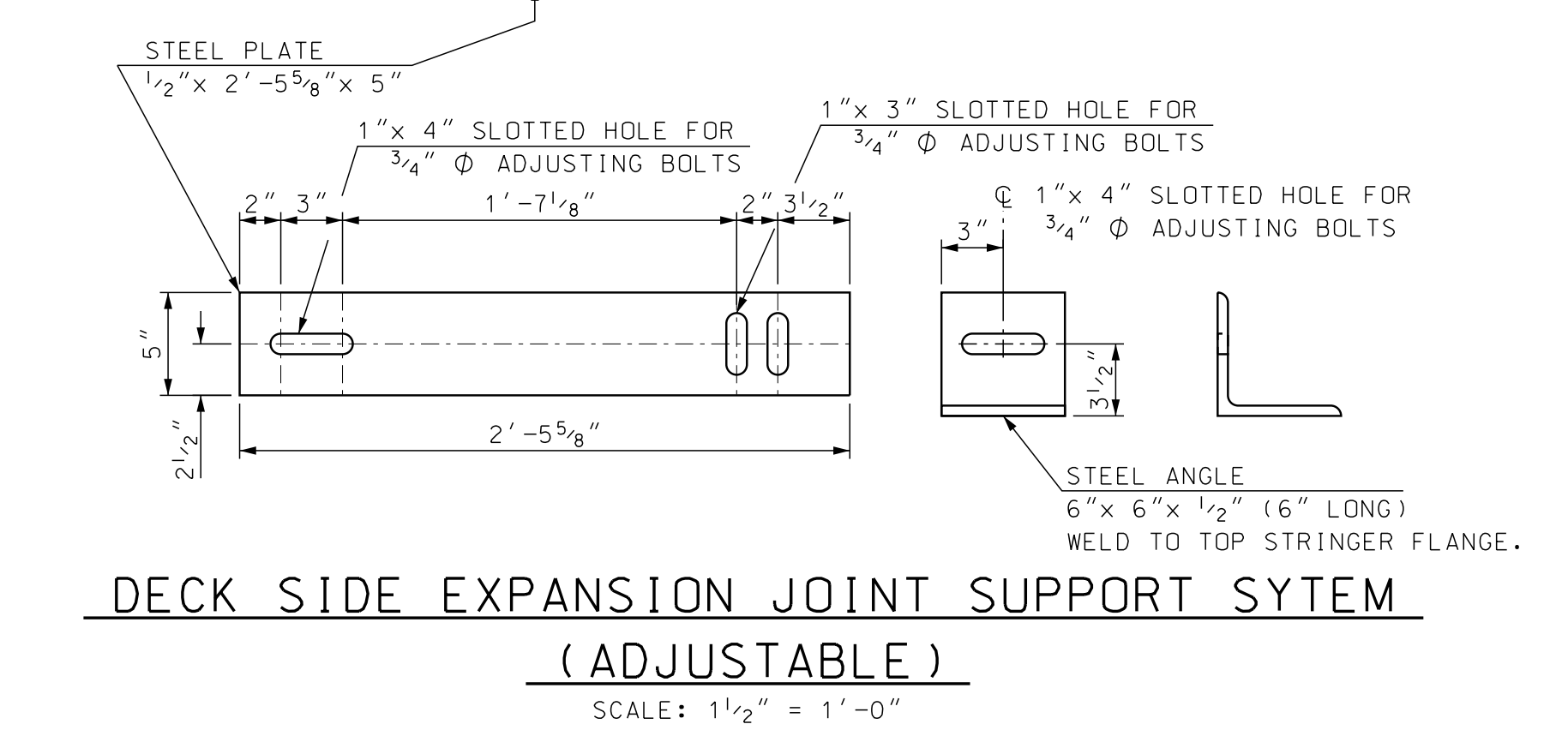
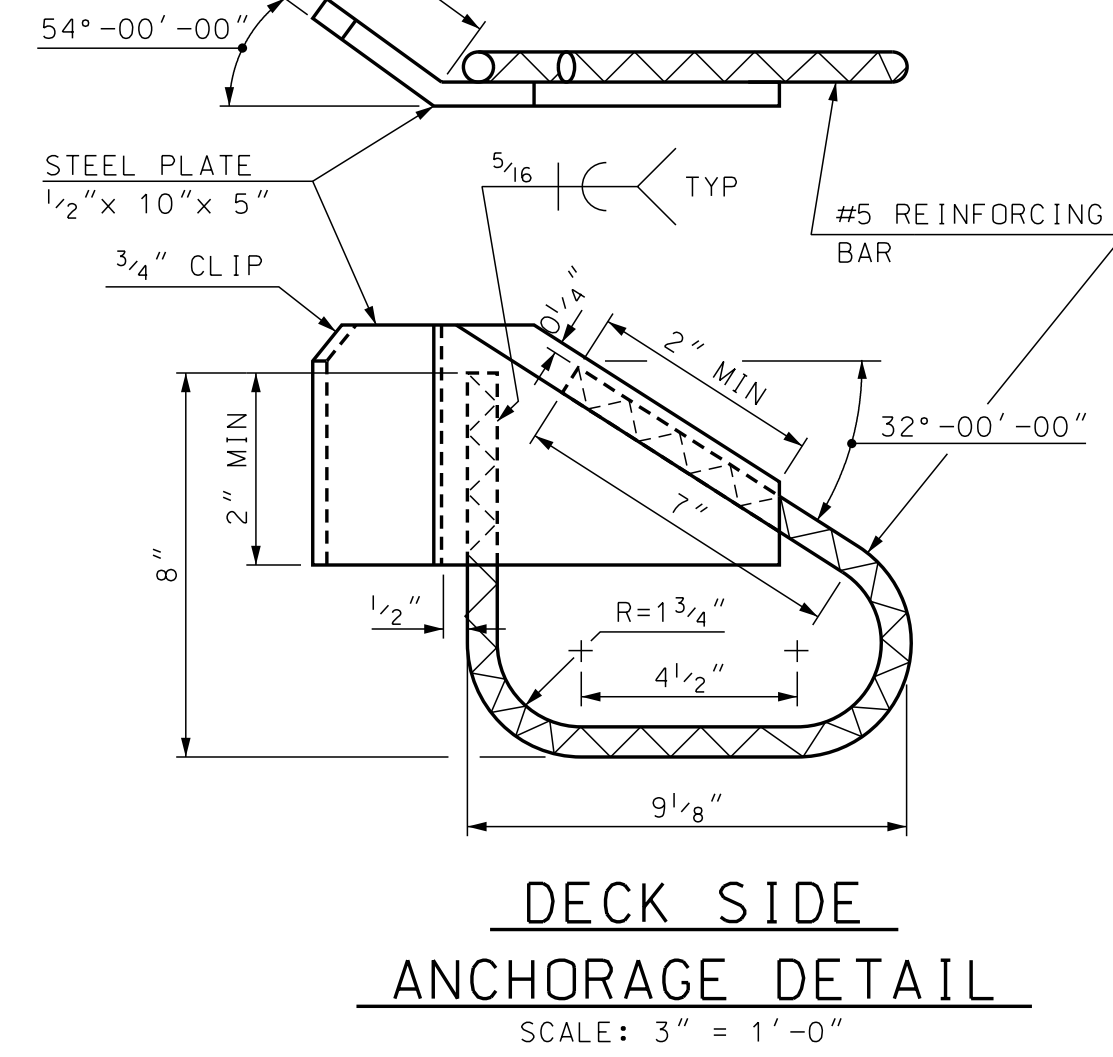
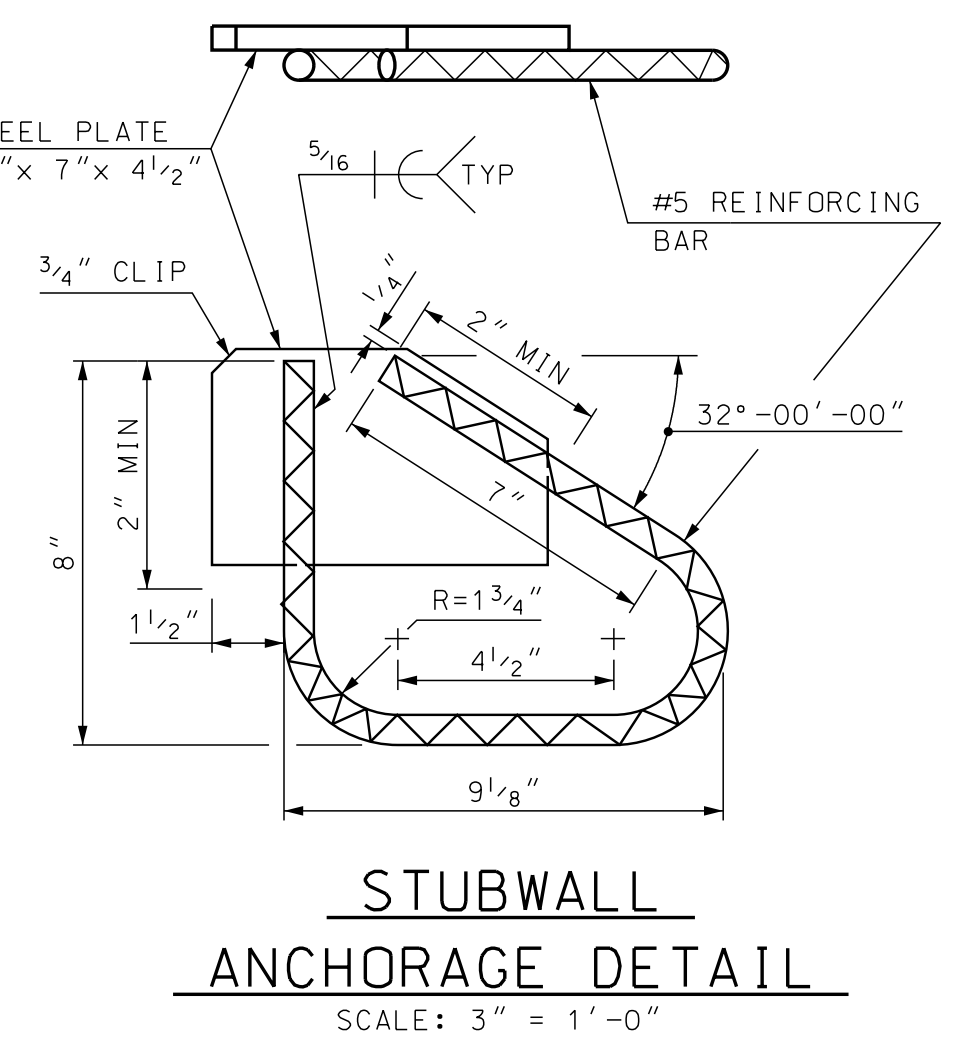
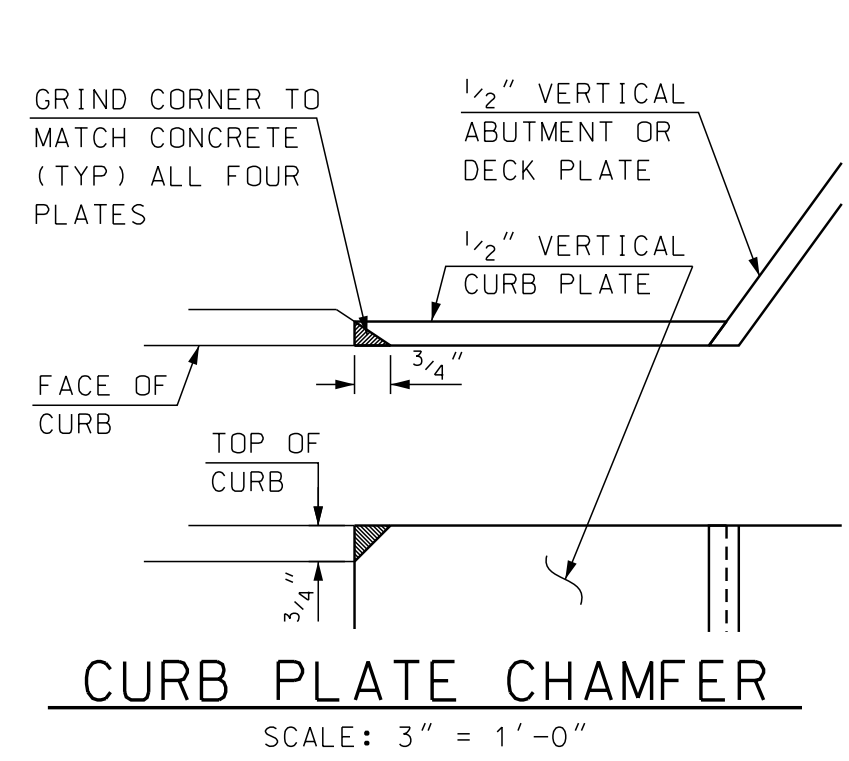
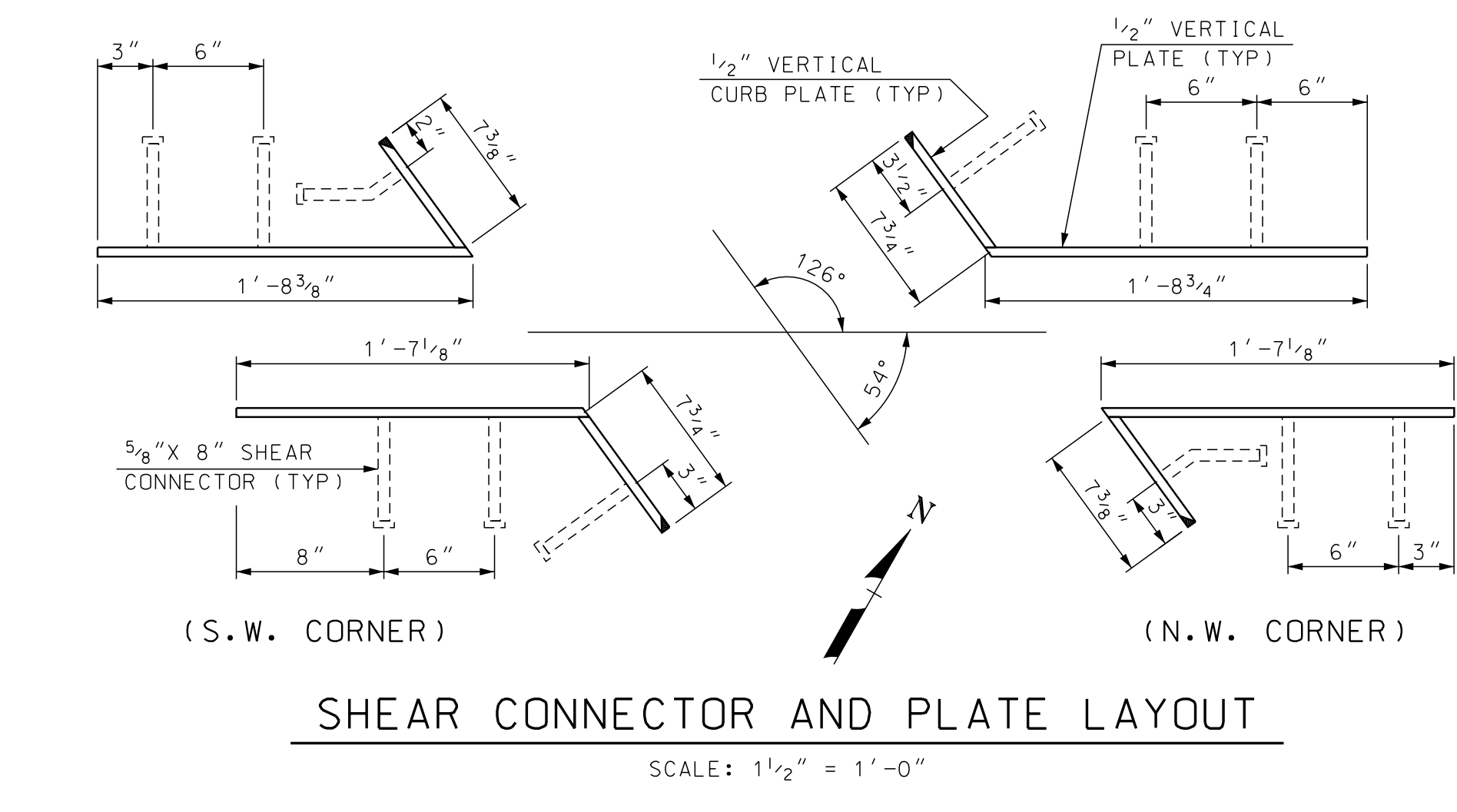
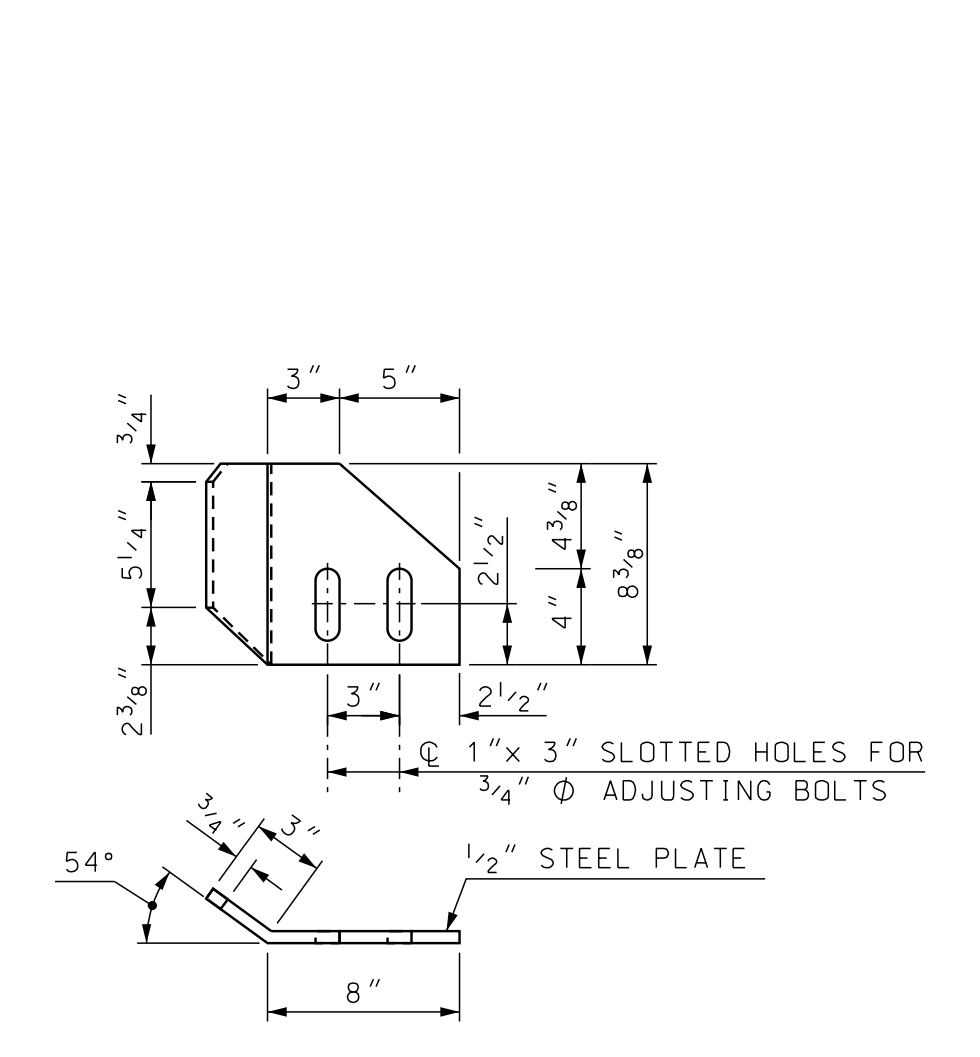
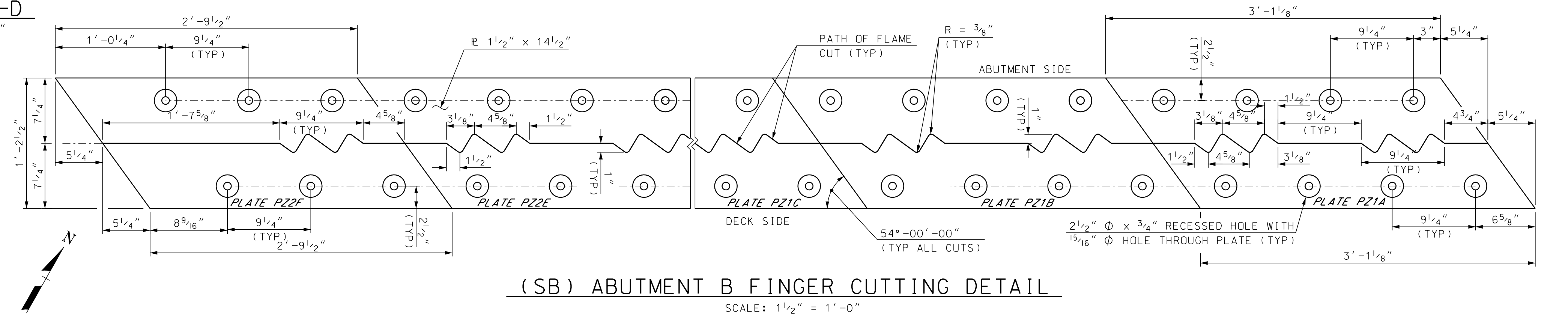
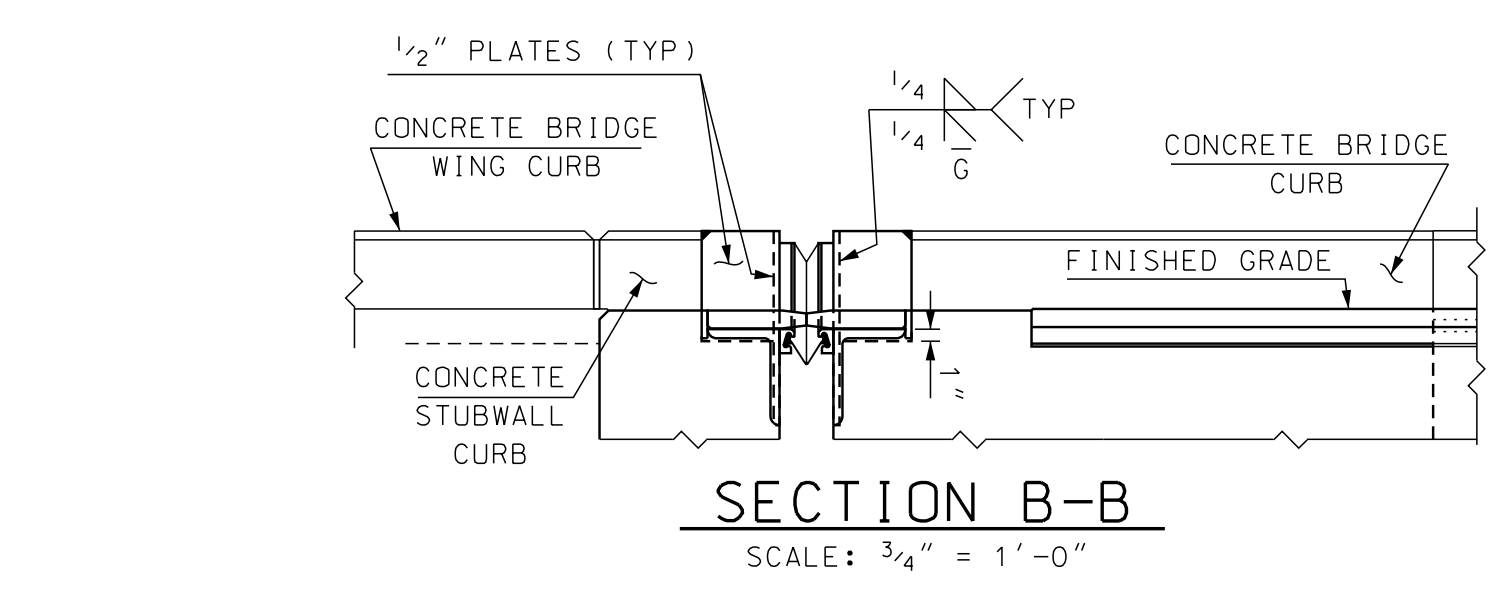
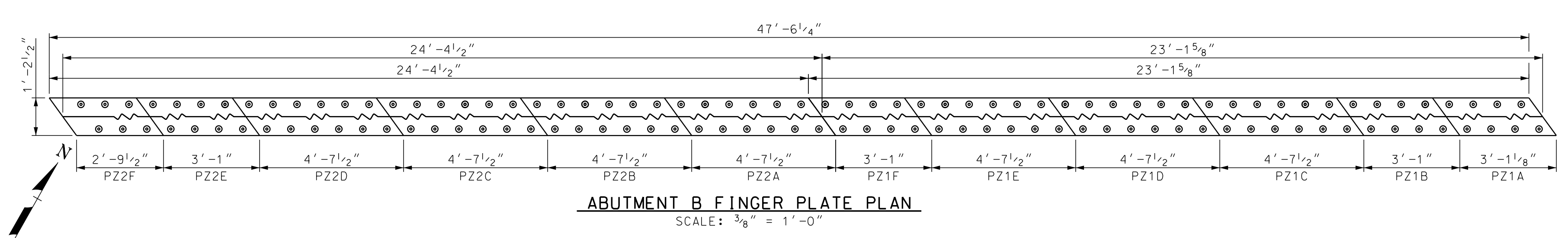
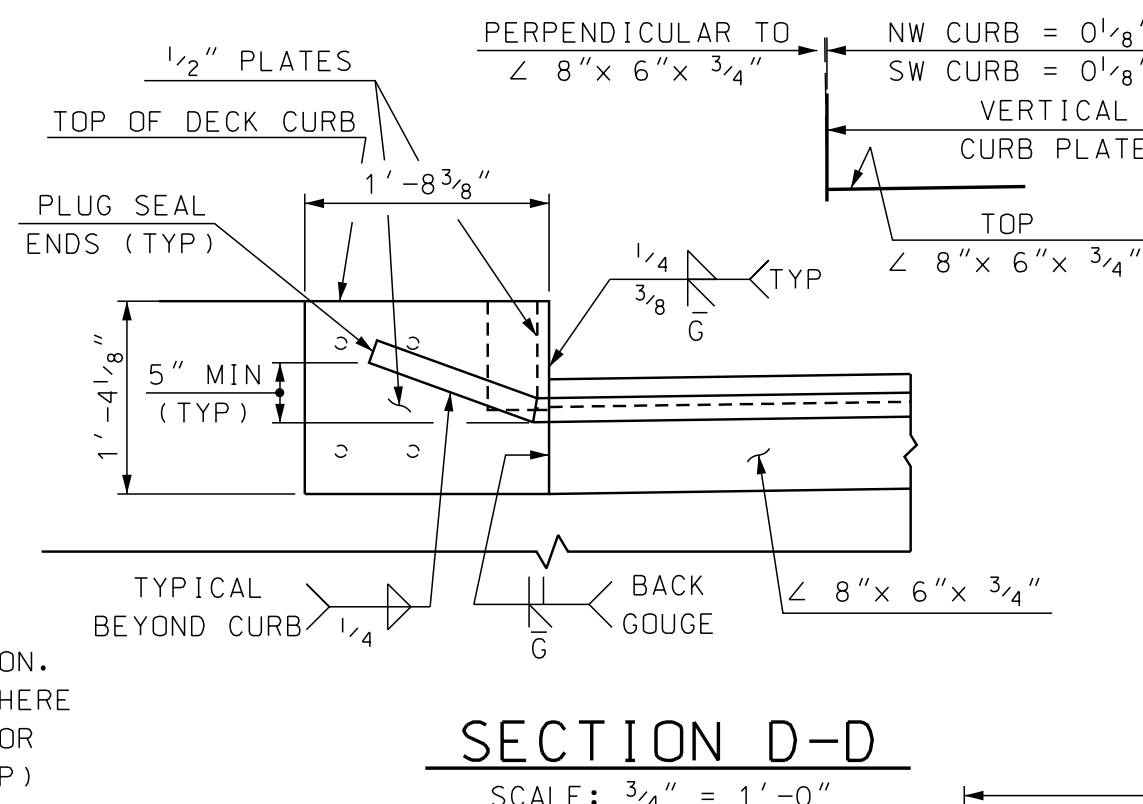
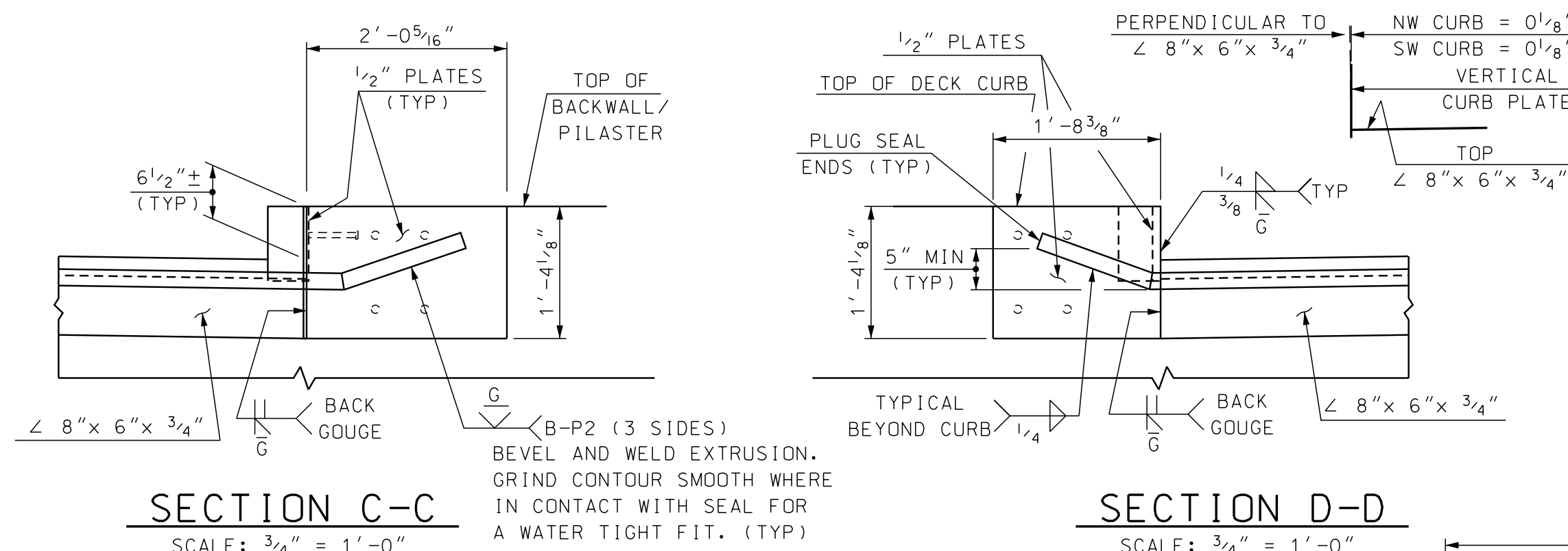
TEMPERATURE ADJUSTMENT NOTES

- "T" DIMENSIONS ARE PERPENDICULAR TO FACE OF BACKWALL.
- MINIMUM "T" WIDTH FOR SEAL INSTALLATION = 1 3/4" (APPROXIMATELY 65°F OR LESS).
- VALUES IN THE TEMPERATURE ADJUSTMENT TABLE ARE FOR SETTING THE EXPANSION JOINT ASSEMBLY IMMEDIATELY PRIOR TO POURING CONCRETE BLOCKOUTS.

NOTE THAT THE ELEVATIONS AND DIMENSIONS SHOWN ARE TAKEN FROM THE ORIGINAL PLANS AND/OR BRIDGE MAINTENANCE RECORDS. DAMAGE AND/OR FIELD MAINTENANCE MAY HAVE OCCURRED THAT MAY NOT HAVE BEEN RECORDED SO FIELD VERIFICATION OF DIMENSIONS AND ELEVATIONS IS REQUIRED TO ENSURE PROPER FITTING OF EXPANSION JOINT. ANY DIFFERENCES BETWEEN FIELD MEASUREMENTS AND DESIGN PLANS SHALL BE NOTED ON THE SHOP DRAWINGS.

STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511
LOCATION SOUTHBOUND I-89 OVER KING HILL ROAD					
ABUT B EXPANSION JOINT (1 OF 2) BR. NO. 124/058					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					30 OF 36
DESIGNED	CKN	8/21	CHECKED	WPS	8/21
DRAWN	GMC	8/21	CHECKED	CKN	8/21
QUANTITIES	GMC	8/21	CHECKED	GMC	8/21
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			126	162

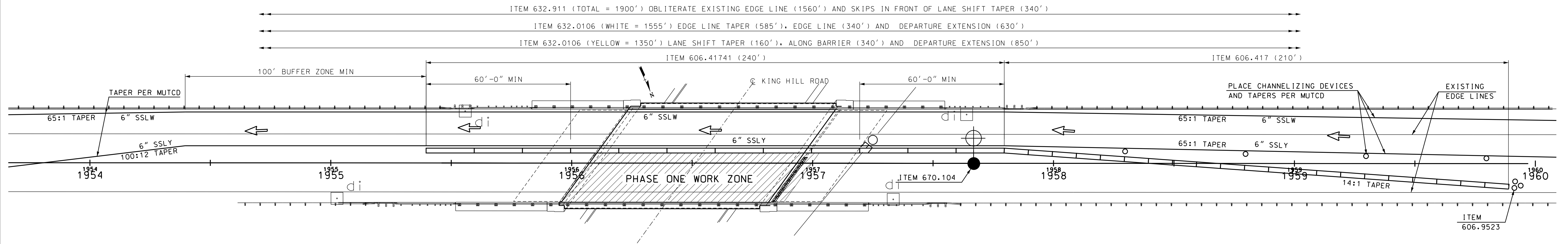
SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	SB124-058Expjt	AS NOTED



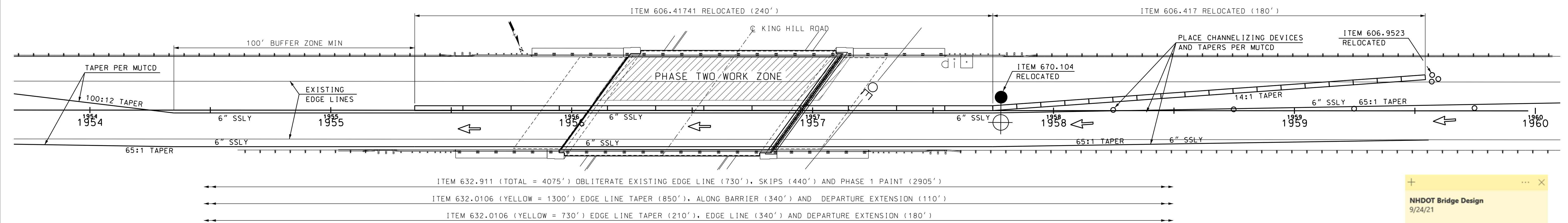
NHDOT Bridge Design
9/24/21
SAMPLE PLAN
Details and notes may not be current.
Closely review before using details!

STATE OF NEW HAMPSHIRE					
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN					
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511
LOCATION SOUTHBOUND I-89 OVER KING HILL ROAD					
ABUT B EXPANSION JOINT (2 OF 2) BR. NO. 124/058					BRIDGE SHEET
REVISIONS AFTER PROPOSAL					31 OF 36
DESIGNED	CKN	8/21	CHECKED	WPS	8/21
DRAWN	GMC	8/21	CHECKED	CKN	8/21
QUANTITIES	GMC	8/21	CHECKED	GMC	8/21
ISSUE DATE	FEDERAL PROJECT NO.			SHEET NO.	TOTAL SHEETS
REV. DATE	-----			127	162

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
BRC/King Hill Rd	SB124-058Expjt	AS NOTED



PHASE 1 BARRIER LAYOUT



PHASE 2 BARRIER LAYOUT

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
Details and notes may not be current.
Closely review before using details

ALL RELOCATED QUANTITIES ARE SUBSIDIARY TO THE ITEM REFERENCED

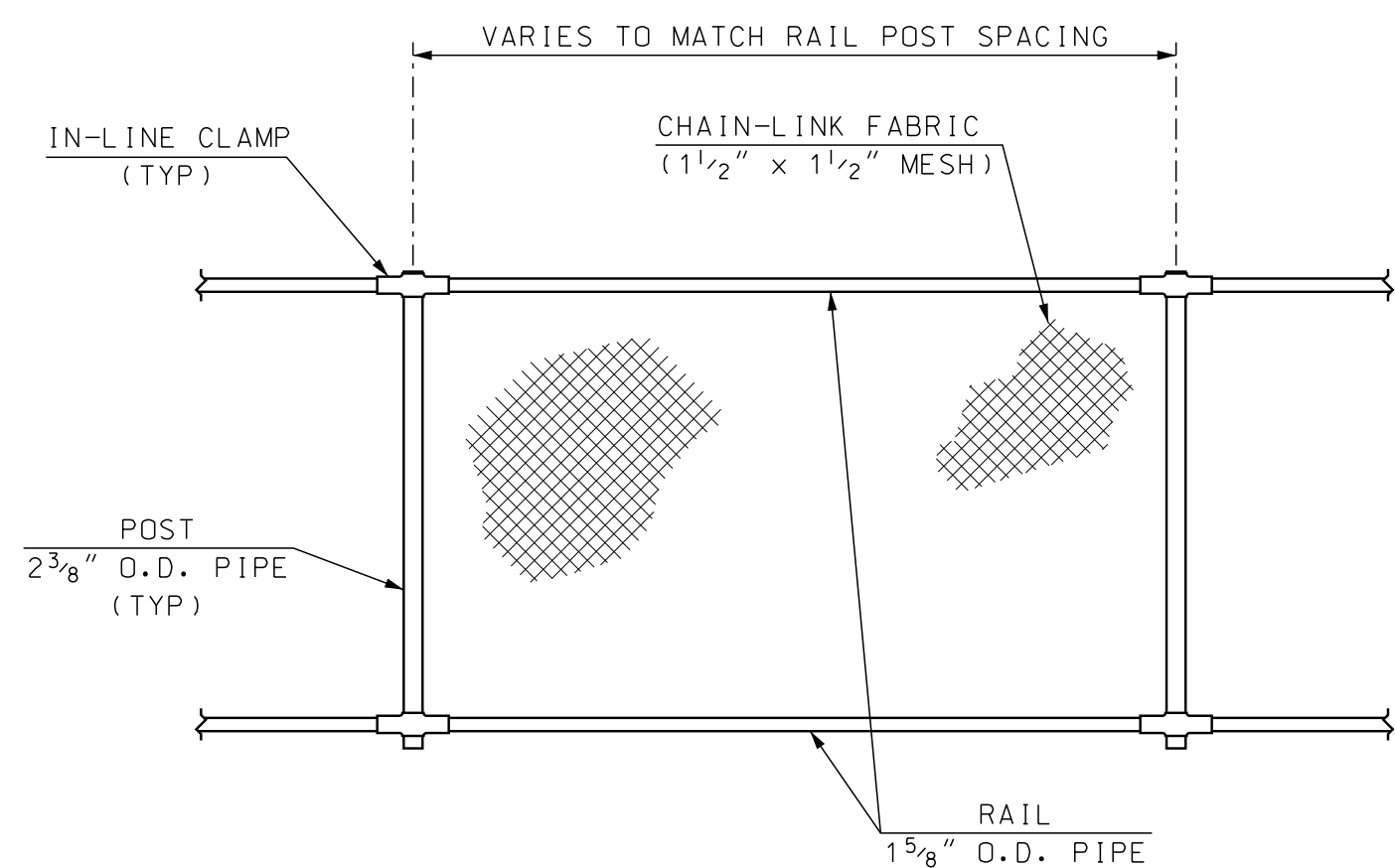
PHASE 3 NOTES

- RESTORE PAVEMENT MARKINGS TO ORIGINAL LAYOUT.
- ITEM 632.911 (TOTAL = 7765') OBLITERATE PHASE 2 MARKINGS (2030')
- ITEM 632.0106 (WHITE = 2250') RIGHT EDGE LINE (1800') AND SKIPS (450')
- ITEM 632.0106 (YELLOW = 730') LEFT EDGE LINE (730')

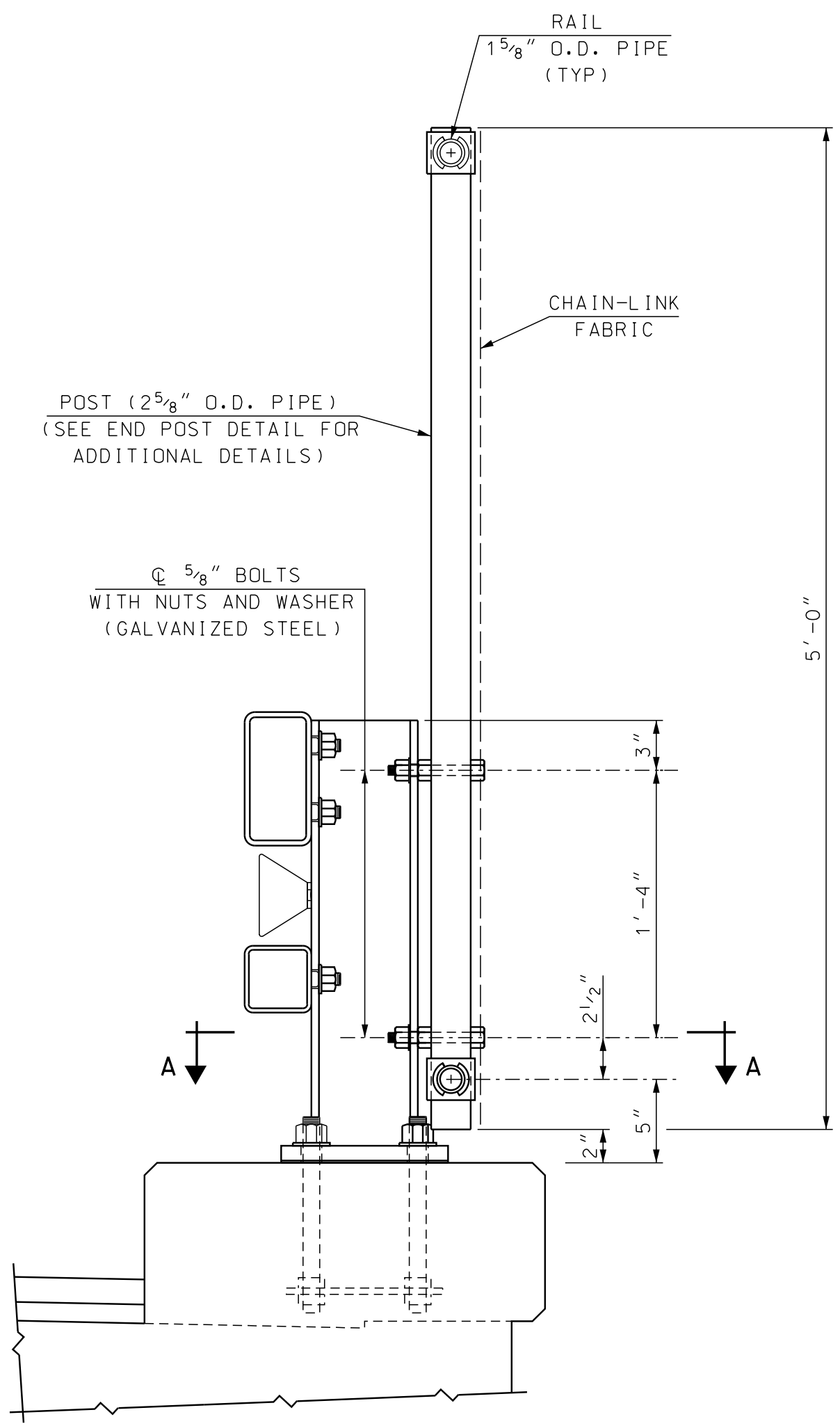
NOTE:
CHANNELIZING DEVICES NOT SHOWN.
SEE THE MUTCD 2009 EDITION AND
NHDOT WORK ZONE TRAFFIC CONTROL
STANDARD PLANS FOR LAYOUT.

SUBDIRECTORY	DGN LOCATOR	SHEET SCALE
40511 KingHillTraffic	SB124-058Traffic	1" = 20'-0"

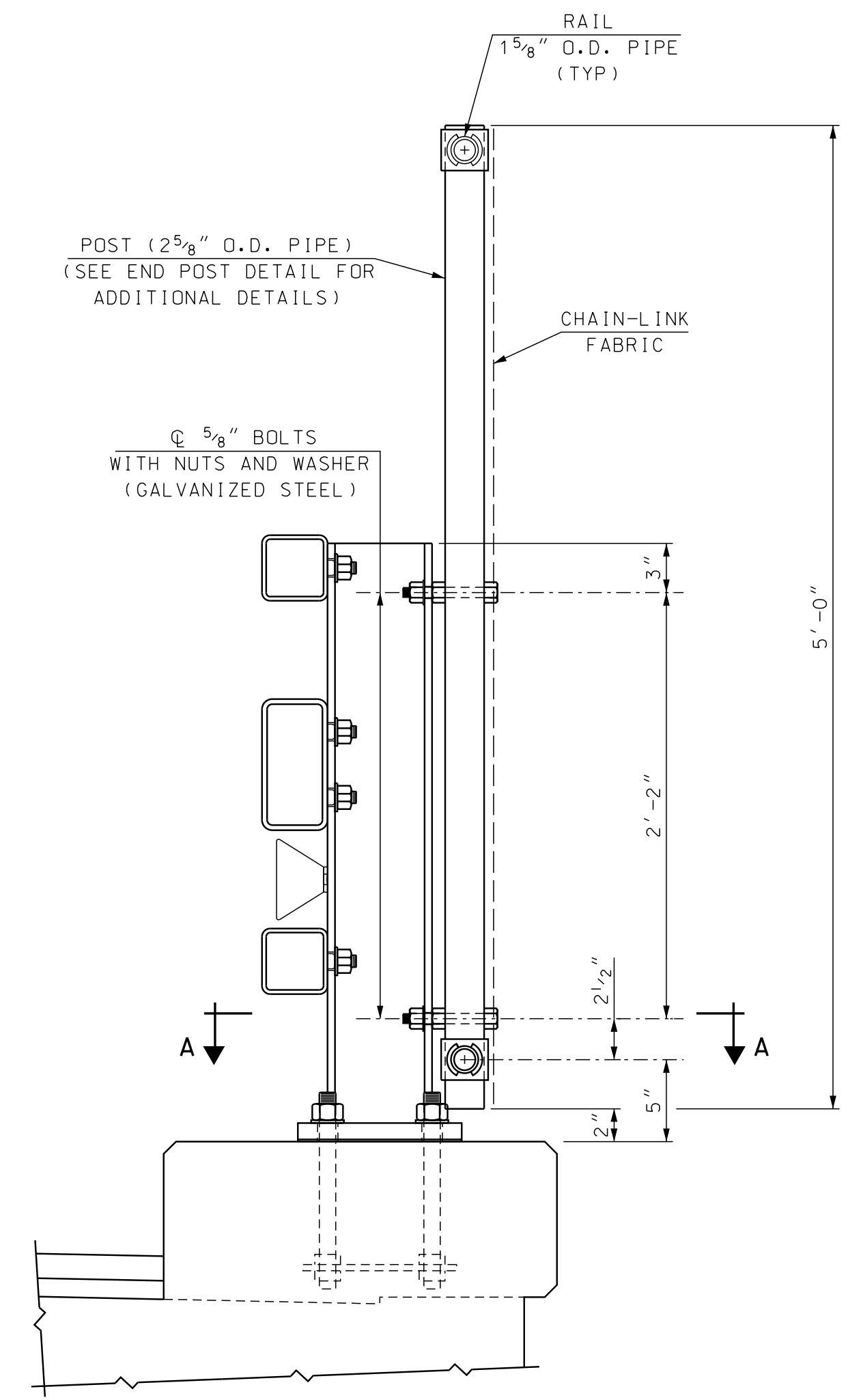
STATE OF NEW HAMPSHIRE									
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN									
TOWN	NEW LONDON	BRIDGE NO.	124/058	STATE PROJECT	40511				
LOCATION I-89 SOUTHBOUND over KING HILL ROAD									
BARRIER LAYOUT BR NO 124/058									
REVISIONS AFTER PROPOSAL		BY	DATE	CHECKED	WPS	DATE	BRIDGE SHEET		
		DESIGNED	CKN	8/21	CHECKED	WPS	8/21	32 OF 36	
		DRAWN	GMC	8/21	CHECKED	CKN	8/21	FILE NUMBER	
		QUANTITIES	GMC	8/21	CHECKED	GMC	8/21	140-3-1	
ISSUE DATE		FEDERAL PROJECT NO.			SHEET NO.		TOTAL SHEETS		
REV. DATE		-----			128		162		



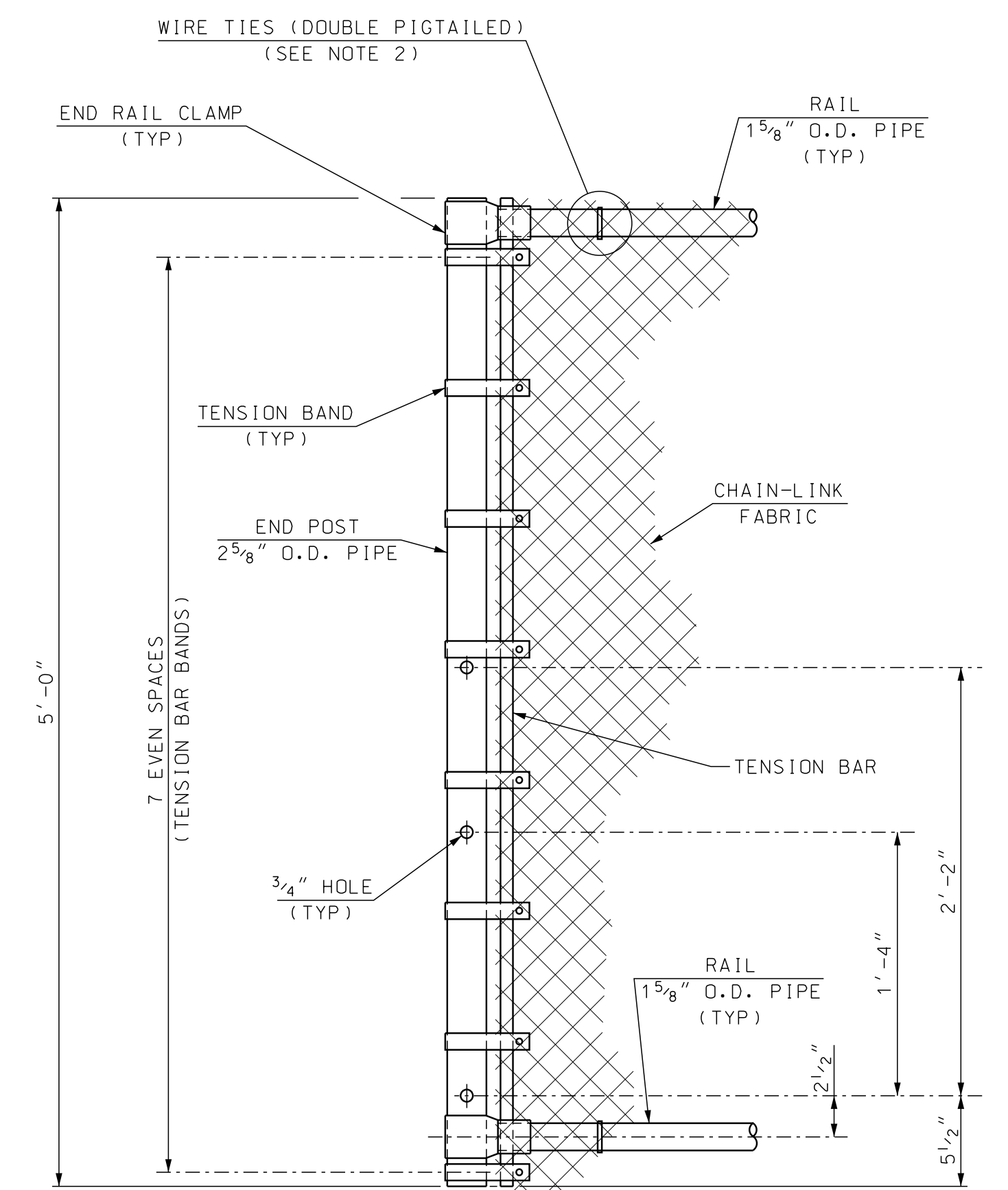
ELEVATION - SNOW SCREENING
SCALE: 1/2" = 1'-0"



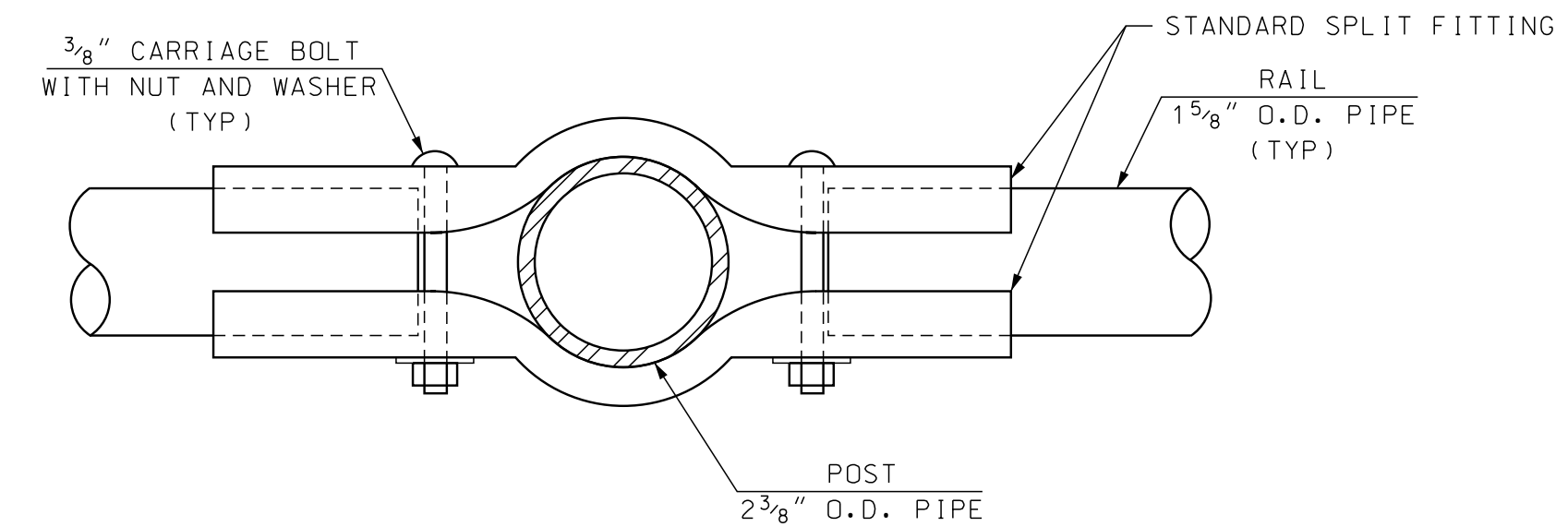
TYPICAL SECTION (T2 BRIDGE RAIL)
SCALE: 1/2" = 1'-0"



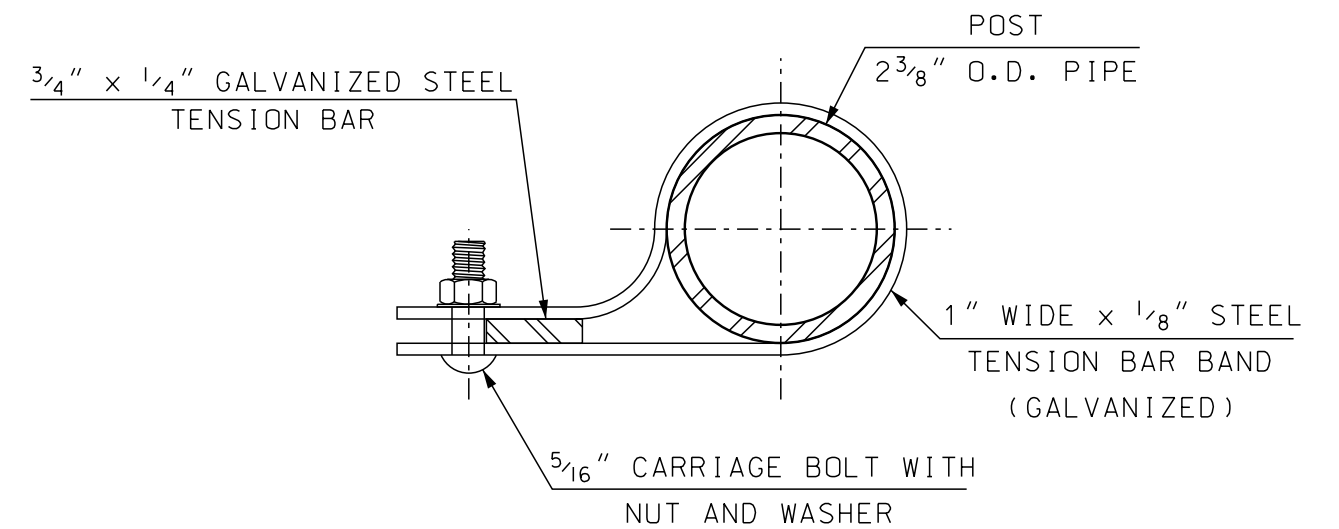
TYPICAL SECTION (T3 BRIDGE RAIL)
SCALE: 1/2" = 1'-0"



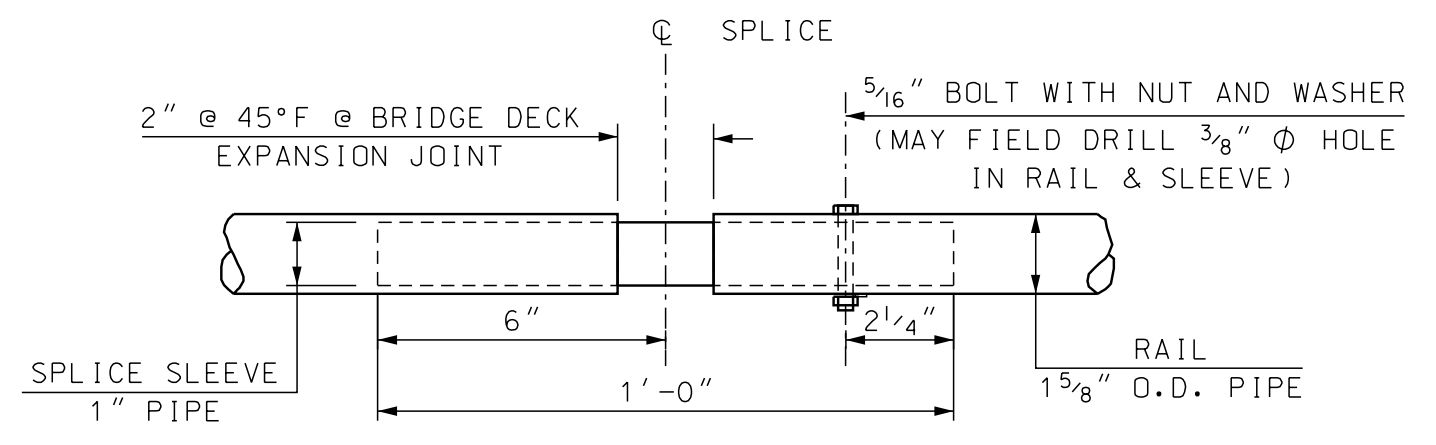
END POST DETAIL
SCALE: 1/2" = 1'-0"



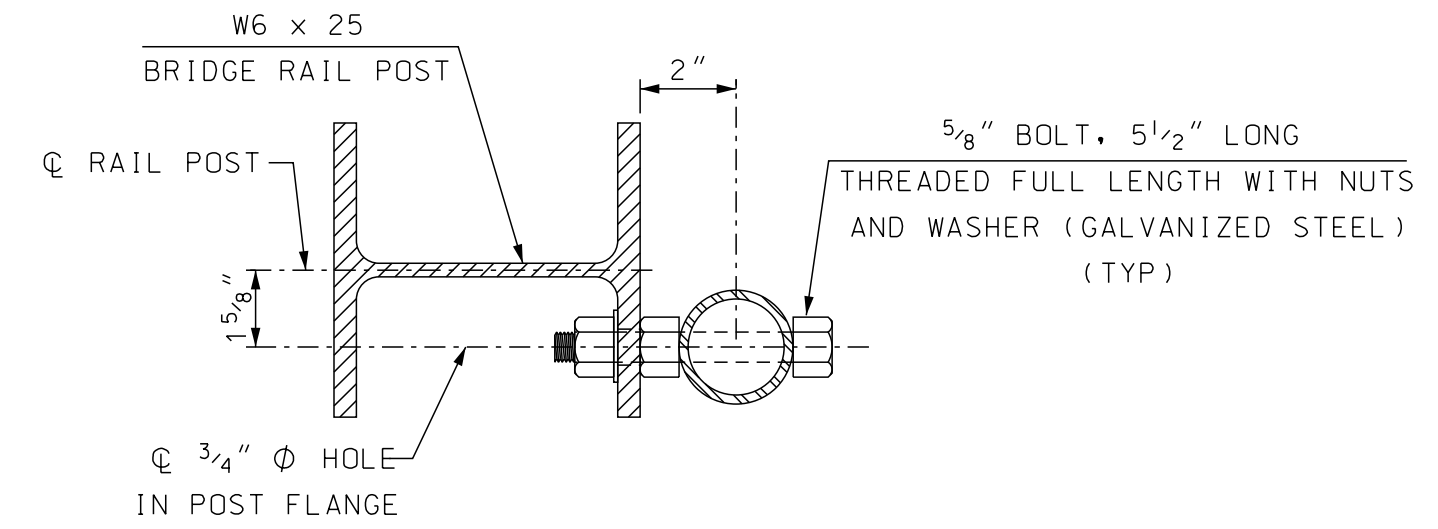
IN-LINE CLAMP DETAIL
SCALE: 6" = 1'-0"



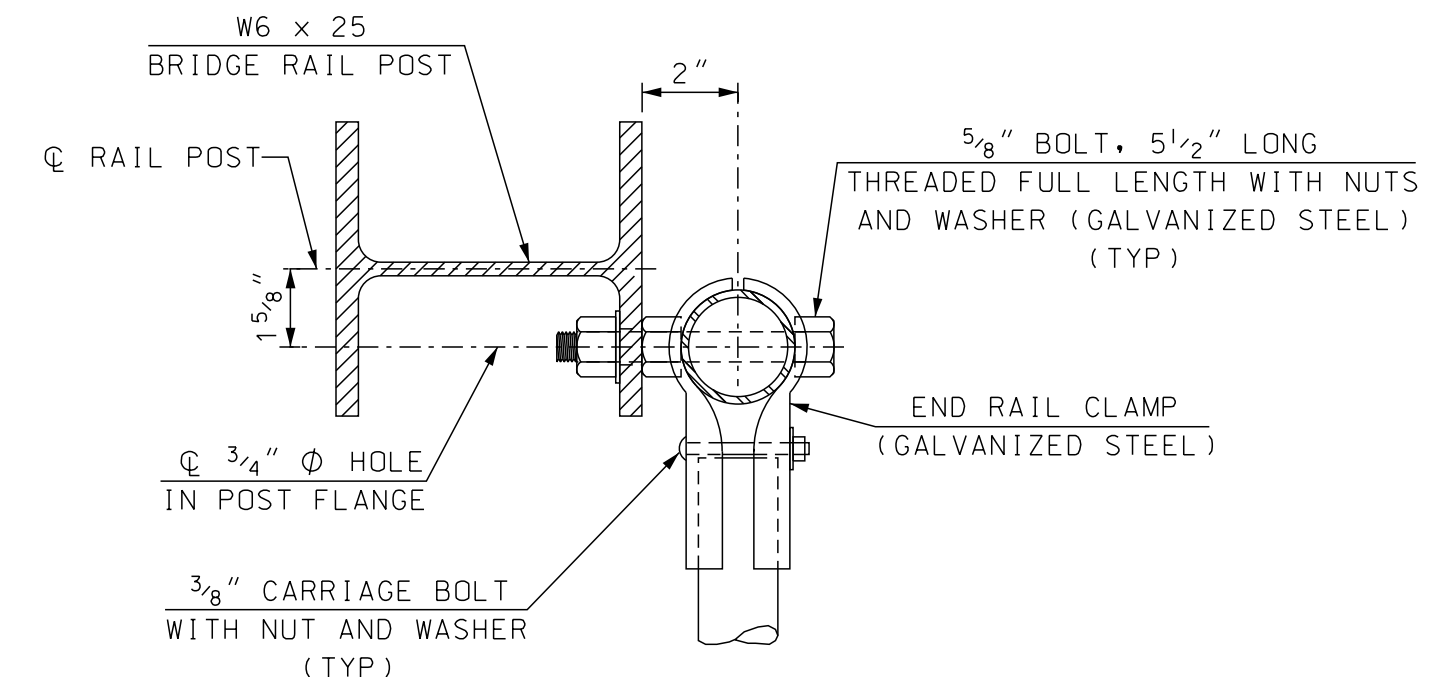
TENSION BAND DETAIL
SCALE: 6" = 1'-0"



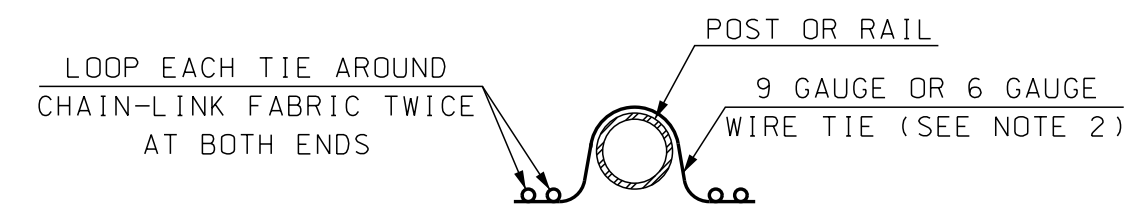
RAIL SPLICE DETAIL
SCALE: 3" = 1'-0"



SECTION A-A (AT INTERIOR POST)
SCALE: 3" = 1'-0"



SECTION A-A (AT END POST)
SCALE: 3" = 1'-0"



DOUBLE PIGTAILED TIE
NOT TO SCALE

GENERAL NOTES

- CHAIN-LINK FABRIC SHALL BE 9 GAUGE STEEL, ALUMINUM-COATED CONFORMING TO ASHTO M 181, TYPE 11 (ASTM A 491). CHAIN-LINK FABRIC SHALL BE KNUCKLED ON TOP AND BOTTOM. THE SIZE OF WIRE MESH (FABRIC) SHALL BE 1 1/2".
- WIRE TIES SHALL BE STANDARD ROUND 9 GAUGE ALUMINUM-COATED STEEL OR 6 GAUGE ALUMINUM ALLOY CONFORMING TO ASTM F 626. ALL TIES SHALL BE WRAPPED AROUND CHAIN-LINK FABRIC TWICE (DOUBLE PIGTAILED) AT BOTH ENDS. SPACE TIES @ 6" O.C. TO BOTTOM RAIL AND @ 12" O.C. TO ALL POSTS AND OTHER RAILS.
- POSTS AND RAIL PIPES SHALL BE HOT-DIP GALVANIZED STEEL CONFORMING TO ASHTO M 181, GRADE 1 (ASTM F 1083). ALL PIPES SHALL BE SCHEDULE 40, STANDARD WEIGHT.
- TENSION BARS, BAR BANDS, IN-LINE CLAMPS AND END RAIL CLAMPS SHALL BE STEEL. STEEL COMPONENTS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASHTO M 111 (ASTM A 123) OR AASHTO M 232 (ASTM A 153) AS APPLICABLE. ALL BAR BANDS SHALL HAVE A BEVELED EDGE.
- ALL BOLTS AND NUTS SHALL BE STEEL CONFORMING TO ASTM A 307 AND ASTM A 563 GRADE A RESPECTIVELY. WASHERS SHALL BE HARDENED STEEL COMMERCIAL TYPE A PLAIN AND SHALL MEET THE DIMENSIONAL REQUIREMENTS OF ANSI B18.22. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASHTO M 111 (ASTM A 123) OR AASHTO M 232 (ASTM A 153) AS APPLICABLE.
- RAIL SPLICES SHALL BE PROVIDED AT BRIDGE DECK EXPANSION JOINT(S) AND BRIDGE RAIL SPLICES AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- RAIL MAY BE FIELD CUT (SAWN) TO FIT POST SPACING. GALVANIZED RAIL, CUT OR DRILLED AS ALLOWED, SHALL BE TOUCHED-UP IN ACCORDANCE WITH 563.3.2.2.3.
- ALL COSTS FOR CHAIN-LINK FABRIC, POSTS, RAILS AND APPURTENANCES SHALL BE INCLUDED IN ITEM 563.223. BRIDGE RAIL T2 WITH SNOW SCREENING, OR ITEM 563.233, BRIDGE RAIL T3 WITH SNOW SCREENING, AS APPLICABLE.
- SEE BRIDGE RAIL SHEET FOR ADDITIONAL DETAILS.

NHDOT Bridge Design
9/24/21

SAMPLE PLAN
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Closely review before using details!

STATE OF NEW HAMPSHIRE										
DEPARTMENT OF TRANSPORTATION * BUREAU OF BRIDGE DESIGN										
TOWN	SUTTON	BRIDGE NO.	085/161	STATE PROJECT	40511					
LOCATION	I-89 NORTHBOUND over NORTH HOMINY POT ROAD (INTERSTATE BR. #31)									
SNOW SCREEN WITH STEEL BRIDGE RAIL									BRIDGE SHEET	
									36 OF 36	
DESIGNED			NHDOT	8/10	CHECKED			NHDOT	8/10	
DRAWN			PJP	8/10	CHECKED			MGL	8/10	
QUANTITIES			CHECKED							FILE NUMBER
										140-3-1
ISSUE DATE			2/98	FEDERAL PROJECT NO.			SHEET NO.			
REV. DATE			11/1/16				132			
SUBDIRECTORY			DGN LOCATOR	SHEET SCALE			TOTAL SHEETS			
Hominy Pot Rd			BR-SNOWSCREEN	AS NOTED			162			