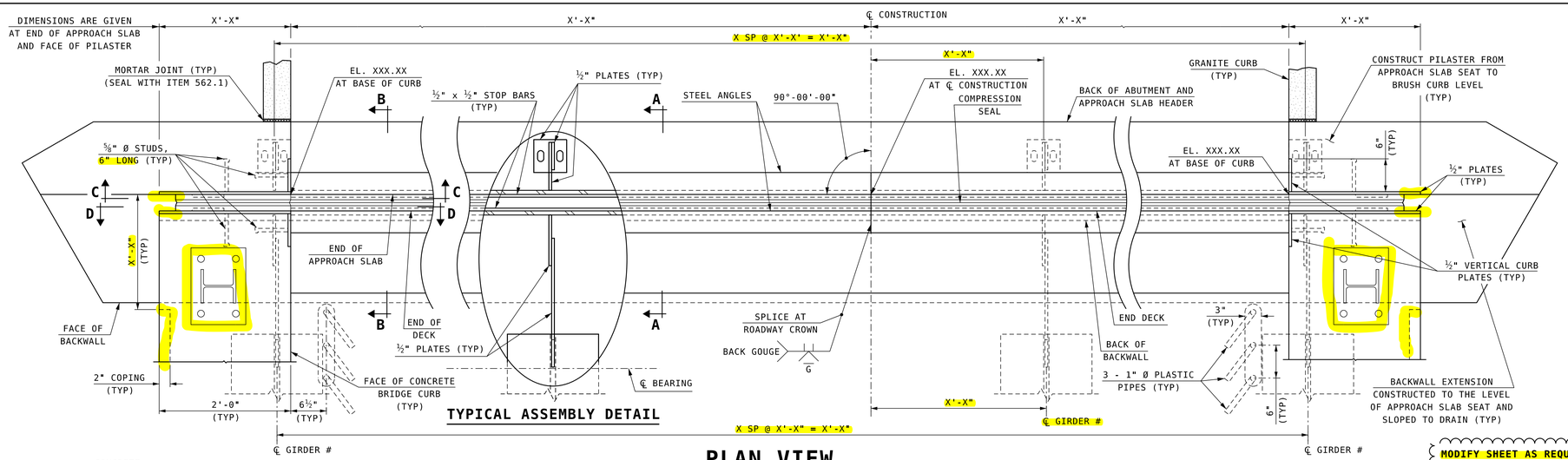
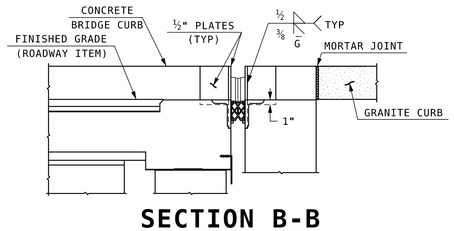


TYPICAL ASSEMBLY DETAIL

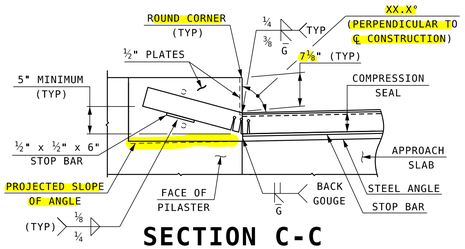
PLAN VIEW

SCALE: 1" = 1'-0"



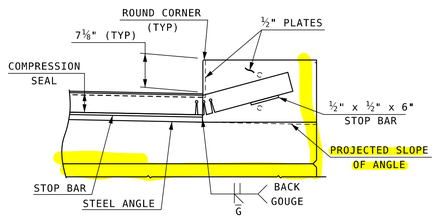
SECTION B-B

SCALE: ¾" = 1'-0"



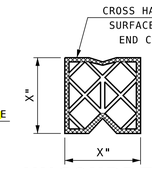
SECTION C-C

SCALE: ¾" = 1'-0"



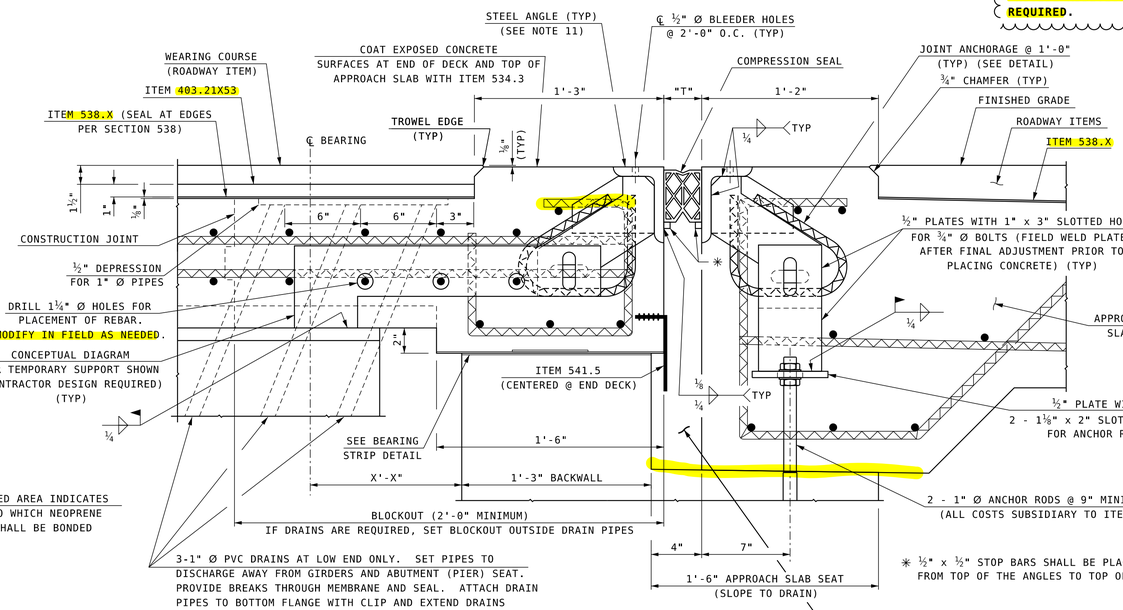
SECTION D-D

SCALE: ¾" = 1'-0"



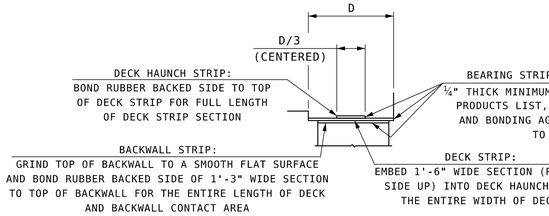
UNCOMPRESSED SEAL

NOT TO SCALE



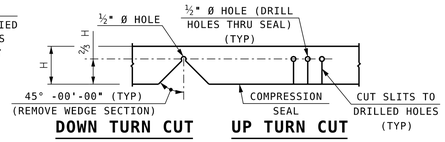
SECTION A-A

SCALE: 2" = 1'-0"



BEARING STRIP DETAIL

NOT TO SCALE



DOWN TURN CUT

UP TURN CUT

RELIEF CUT DETAILS

NOT TO SCALE

EXPANSION JOINT NOTES

(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 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) 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.

(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) THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY AFTER BOTH ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-0" OF FINISHED GRADE.

(7) 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.

(8) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.

(9) THE COMPRESSION SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE A WA-XX SEAL BY WATSON BOWMAN OR CV-XXXX BY D.S. BROWN (SHOWN), AS NOTED IN THE QPL.

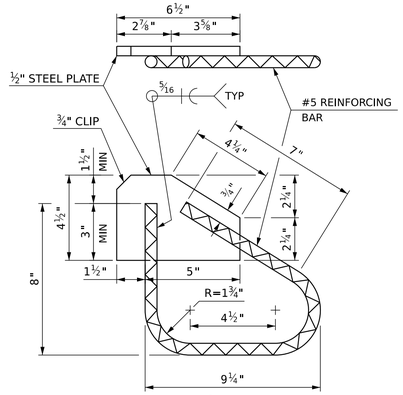
(10) ELEVATIONS SHOWN AT TOP OF ANGLES ARE ⅛" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.

(11) ANGLES 6" x 4" x ¾" 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 ¾".

(12) PRIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WORK SHALL BE REMOVED. 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.

(13) 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.

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED.



ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE

TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-BKWLL	AS NOTED

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

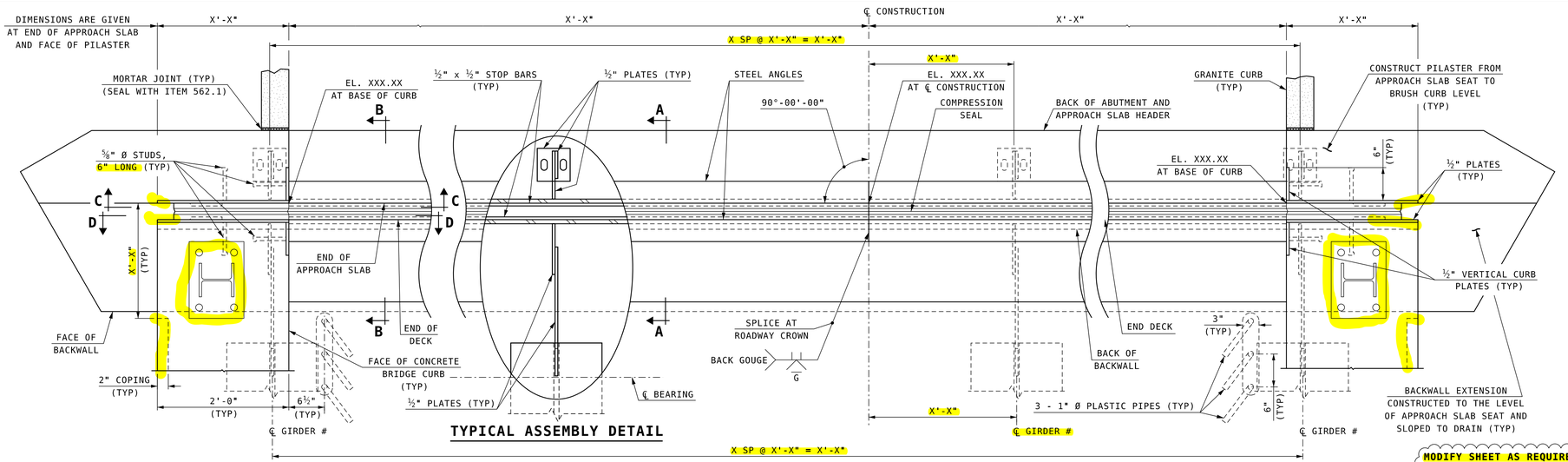
TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

COMPRESSION SEAL EXPANSION JOINT

BRIDGE SHEET OF FILE NUMBER

REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	9/87	CHECKED	NHDOT	9/87
	DRAWN	PJP	4/13	CHECKED	ABH	4/13
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
	ISSUE DATE	9/87	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
	REV. DATE	7/31/23				

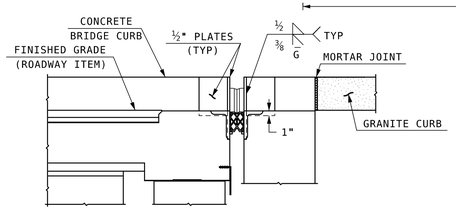


TYPICAL ASSEMBLY DETAIL

PLAN VIEW

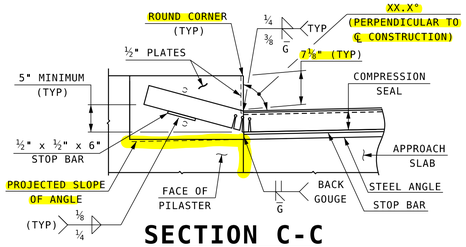
SCALE: 1" = 1'-0"

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED.



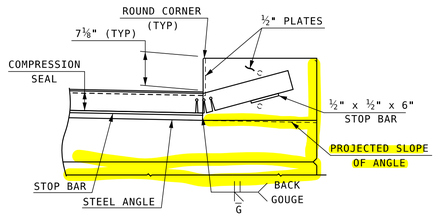
SECTION B-B

SCALE: ¾" = 1'-0"



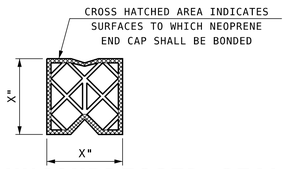
SECTION C-C

SCALE: ¾" = 1'-0"



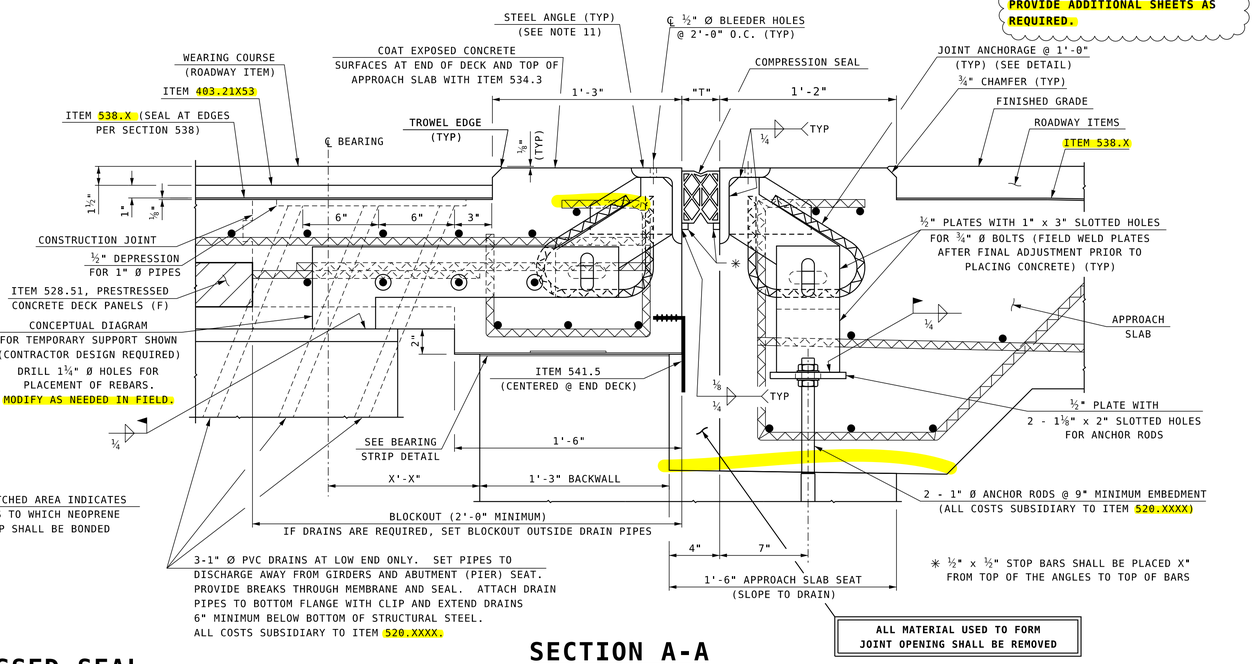
SECTION D-D

SCALE: ¾" = 1'-0"



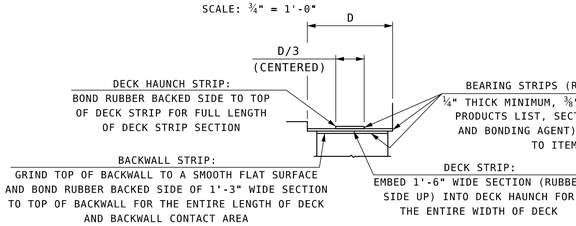
UNCOMPRESSED SEAL

NOT TO SCALE



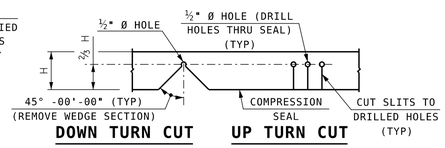
SECTION A-A

SCALE: 2" = 1'-0"



BEARING STRIP DETAIL

NOT TO SCALE



DOWN TURN CUT

UP TURN CUT

RELIEF CUT DETAILS

NOT TO SCALE

EXPANSION JOINT NOTES

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(8) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.

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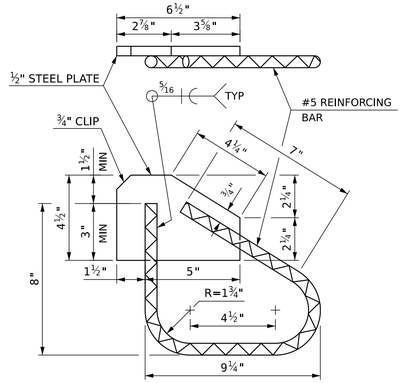


ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE

TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

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

TOWN	BRIDGE NO.	STATE PROJECT
LOCATION		

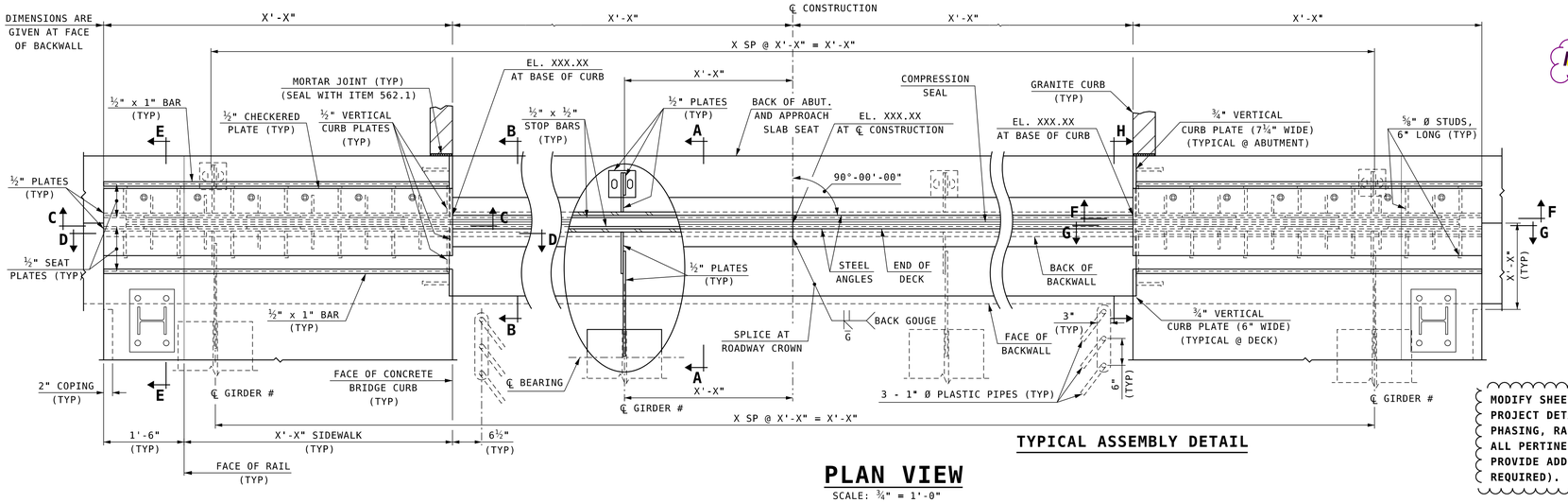
COMPRESSION SEAL EXPANSION JOINT

BRIDGE SHEET OF

FILE NUMBER

REVISIONS AFTER PROPOSAL	BY	DATE		BY	DATE
	DESIGNED NHDOT	9/87	CHECKED NHDOT	9/87	
	DRAWN PJP	4/13	CHECKED ABH	4/13	
	QUANTITIES XXX	XX/XX	CHECKED XXX	XX/XX	
	ISSUE DATE 9/87		FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
	REV. DATE 7/31/23				

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-BKWLL - PANEL	AS NOTED



TYPICAL ASSEMBLY DETAIL

PLAN VIEW

SCALE: ¾" = 1'-0"

New Detail

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED).

EXPANSION JOINT NOTES

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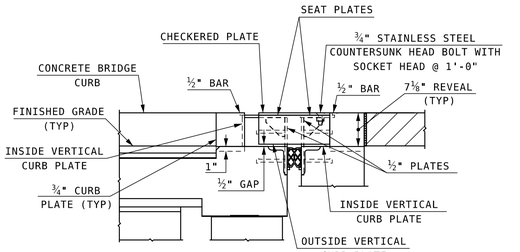
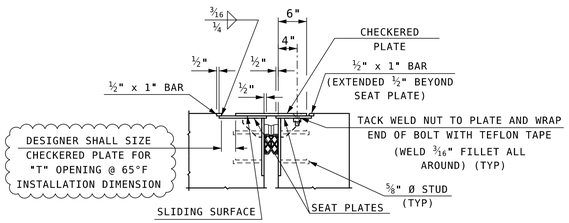


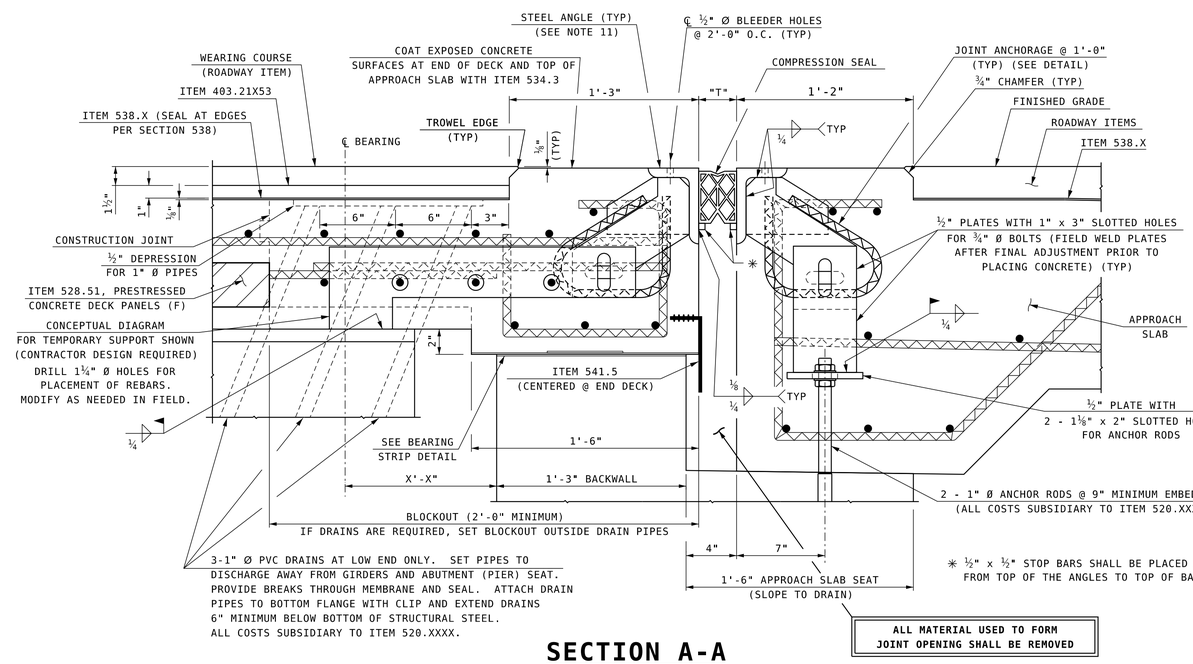
SECTION B-B

SCALE: ¾" = 1'-0"



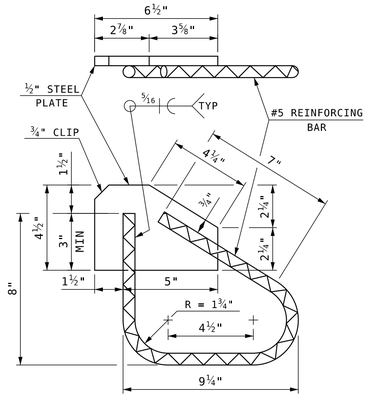
SECTION E-E

SCALE: ¾" = 1'-0"



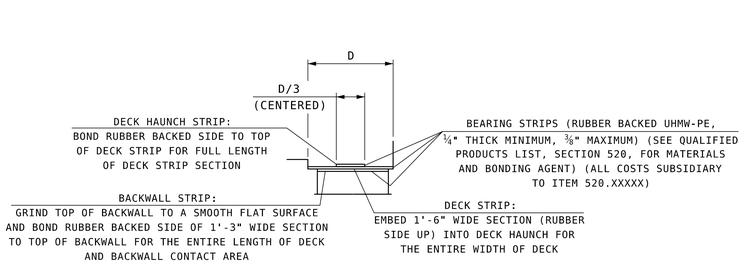
SECTION A-A

SCALE: 2" = 1'-0"



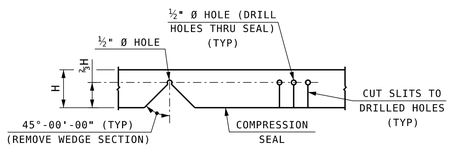
ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"



BEARING STRIP DETAIL

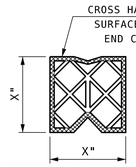
NOT TO SCALE



DOWN TURN CUT **UP TURN CUT**

RELIEF CUT DETAILS

NOT TO SCALE



UNCOMPRESSED SEAL

NOT TO SCALE

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

TEMPERATURE ADJUSTMENT NOTES

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

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

TOWN	BRIDGE NO.	STATE PROJECT
LOCATION		

COMPRESSION SEAL EXP. JOINT (1 OF 2)

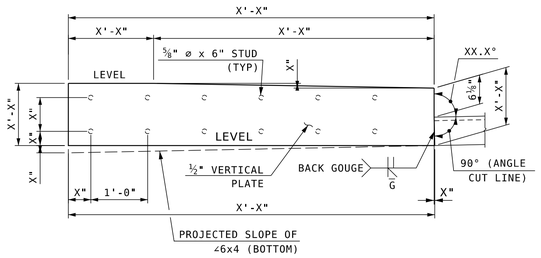
BRIDGE SHEET OF

FILE NUMBER

REVISIONS AFTER PROPOSAL	BY	DATE

	BY	DATE		BY	DATE
DESIGNED	NHDOT	9/87	CHECKED	NHDOT	9/87
DRAWN	PJP	4/13	CHECKED	ABH	4/13
QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
ISSUE DATE	9/87	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
REV. DATE	7/31/23				

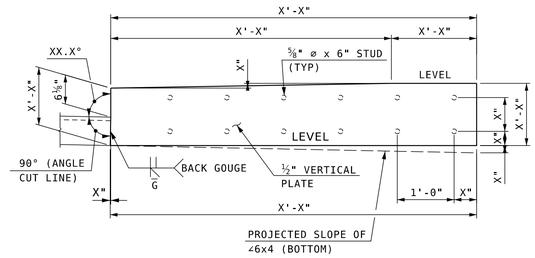
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-SW	AS NOTED



SECTION C-C PLATE

(ABUTMENT SIDE)

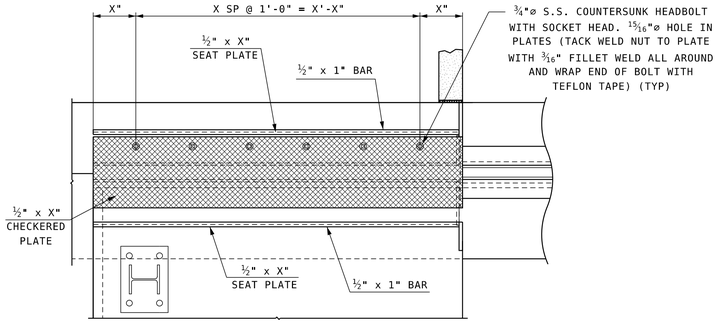
SCALE: ¾" = 1'-0"



SECTION D-D PLATE

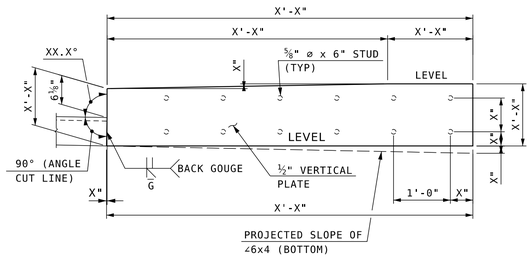
(DECK SIDE)

SCALE: ¾" = 1'-0"



SIDEWALK UPPER ASSEMBLY

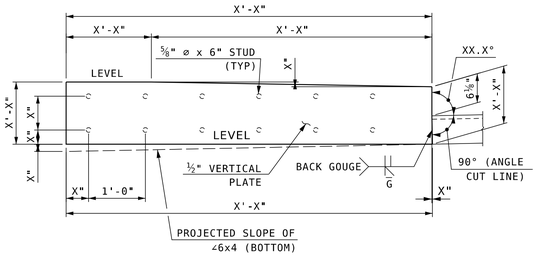
SCALE: ¾" = 1'-0"



SECTION F-F PLATE

(ABUTMENT SIDE)

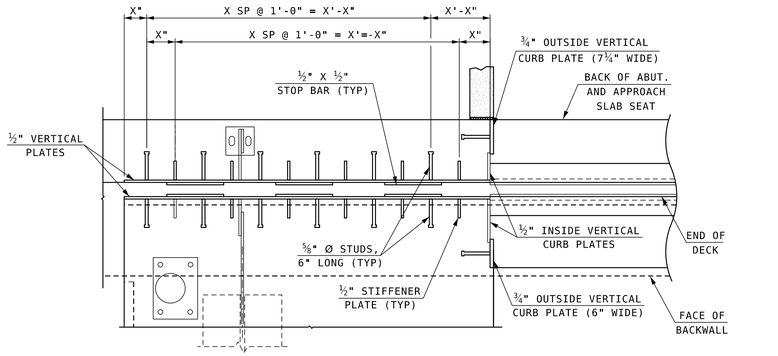
SCALE: ¾" = 1'-0"



SECTION G-G PLATE

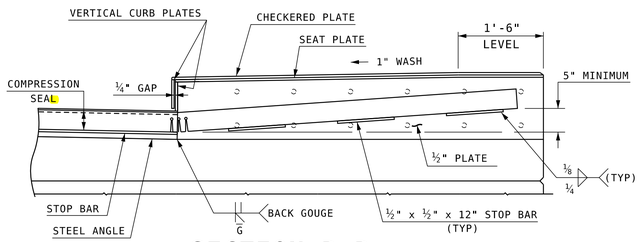
(DECK SIDE)

SCALE: ¾" = 1'-0"



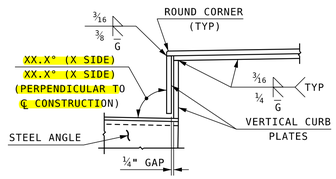
SIDEWALK LOWER ASSEMBLY

SCALE: ¾" = 1'-0"



SECTION D-D

SCALE: ¾" = 1'-0"



SIDEWALK CURB

NOT TO SCALE

New Detail

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

TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

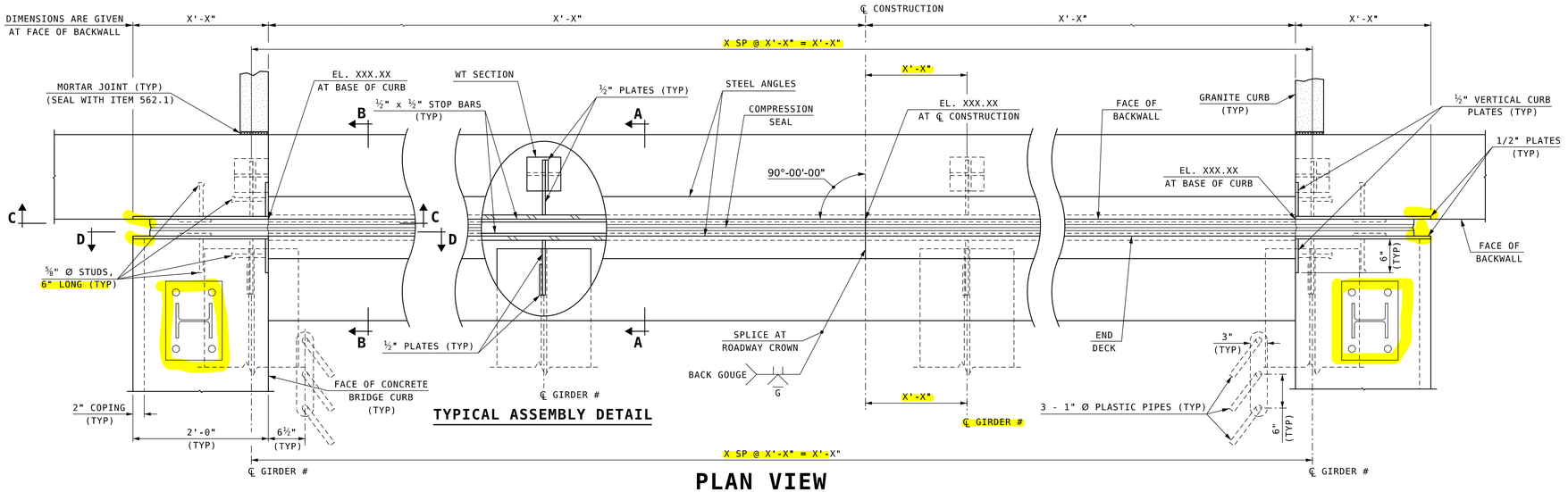
COMPRESSION SEAL EXP. JOINT (2 OF 2)

BRIDGE SHEET OF

REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	9/87	CHECKED	NHDOT	9/87
	DRAWN	PJP	4/13	CHECKED	ABH	4/13
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
	ISSUE DATE	9/87	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
	REV. DATE	1/10/23				

FILE NUMBER

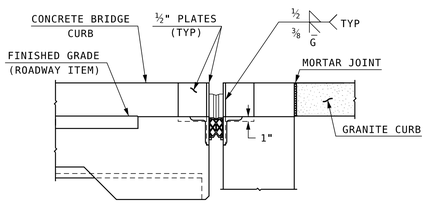
SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-SW	AS NOTED



TYPICAL ASSEMBLY DETAIL

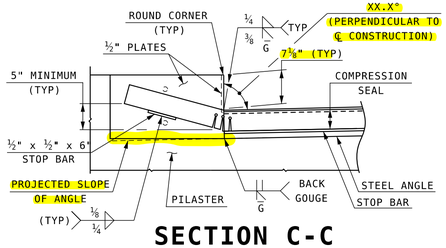
PLAN VIEW

SCALE: 1" = 1'-0"



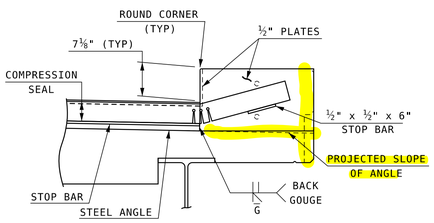
SECTION B-B

SCALE: ¾" = 1'-0"



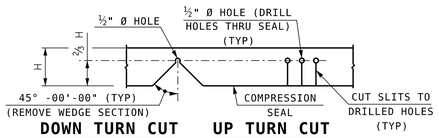
SECTION C-C

SCALE: ¾" = 1'-0"



SECTION D-D

SCALE: ¾" = 1'-0"

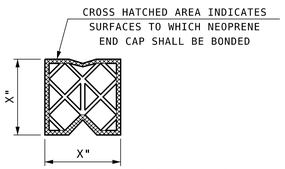


DOWN TURN CUT

UP TURN CUT

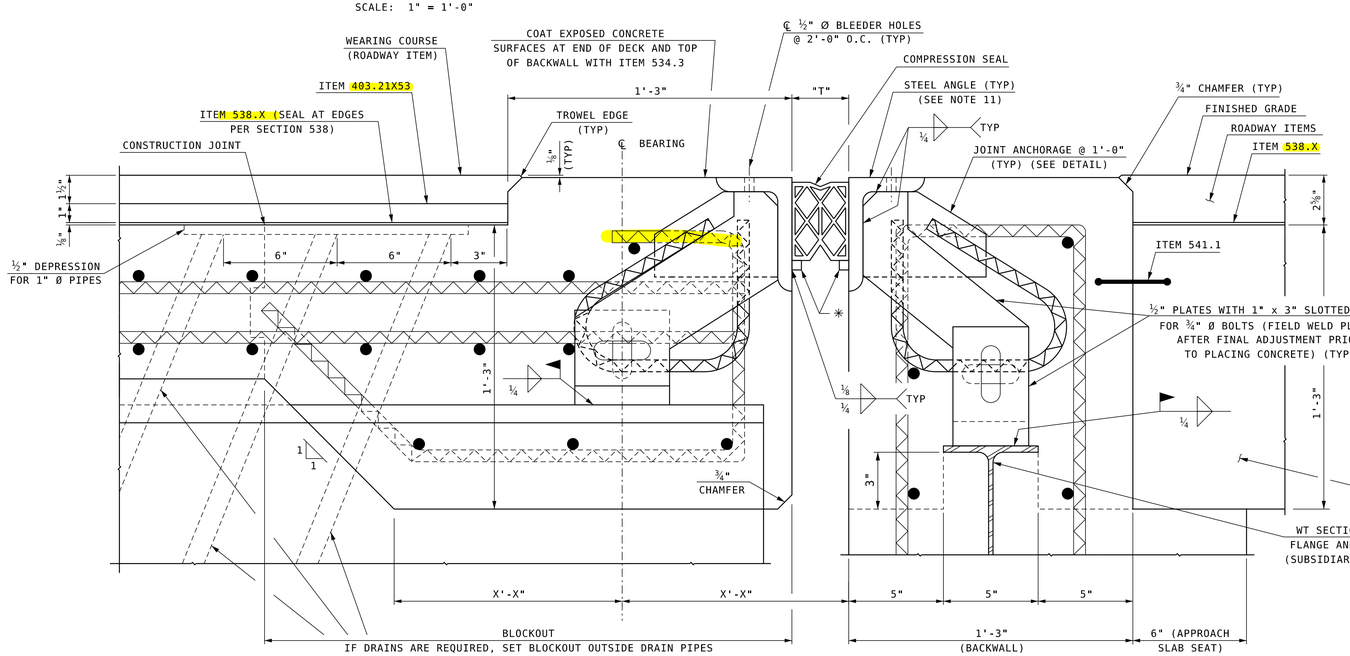
RELIEF CUT DETAILS

NOT TO SCALE



UNCOMPRESSED SEAL

NOT TO SCALE

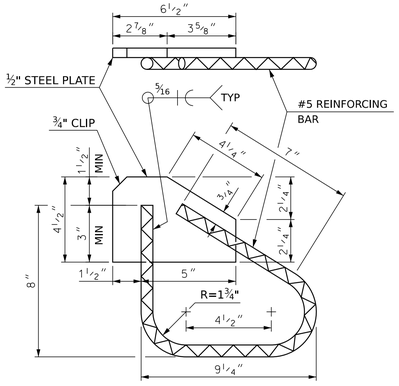


SECTION A-A

SCALE: 3" = 1'-0"

✳ ½" x ½" STOP BARS SHALL BE PLACED X" FROM TOP OF THE ANGLES TO TOP OF BARS

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED.



ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

EXPANSION JOINT NOTES

(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 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) 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.

(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) THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY AFTER BOTH ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-0" OF FINISHED GRADE.

(7) 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.

(8) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.

(9) THE COMPRESSION SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE A WA-XX SEAL BY WATSON BOWMAN OR CV-XXXX BY D.S. BROWN (SHOWN), AS NOTED IN THE QPL.

(10) ELEVATIONS SHOWN AT TOP OF ANGLES ARE ⅛" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.

(11) ANGLES 6" x 4" x ¾" 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 ¾".

(12) PRIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WORK SHALL BE REMOVED. 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.

(13) 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.

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE

TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-BC	AS NOTED

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

TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

COMPRESSION SEAL EXPANSION JOINT

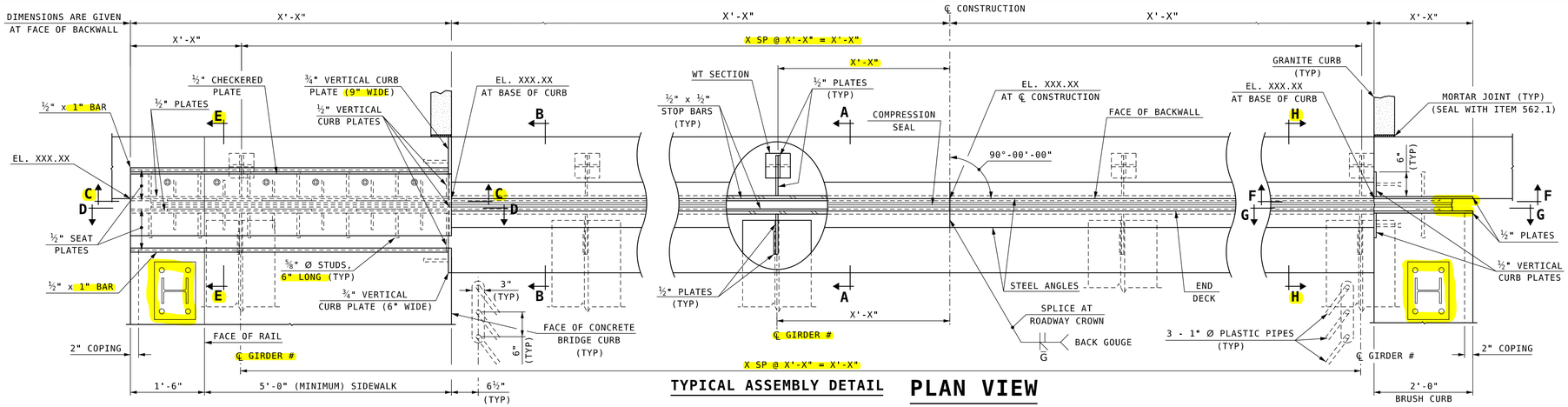
BRIDGE SHEET OF

FILE NUMBER

REVISIONS AFTER PROPOSAL	BY	DATE		BY	DATE
	DESIGNED NHDOT	9/87	CHECKED NHDOT	9/87	
	DRAWN PJP	4/13	CHECKED ABH	4/13	
	QUANTITIES XXX	XX/XX	CHECKED XXX	XX/XX	

ISSUE DATE 9/87 | FEDERAL PROJECT NO. | SHEET NO. | TOTAL SHEETS

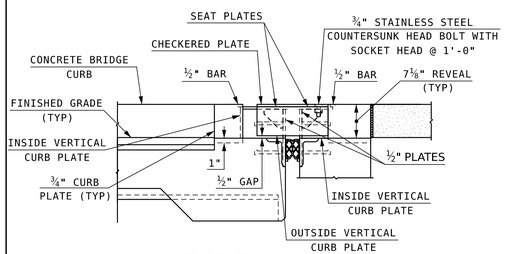
REV. DATE 7/31/23



TYPICAL ASSEMBLY DETAIL

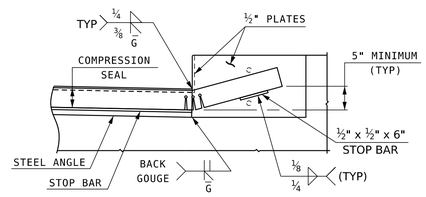
PLAN VIEW

SCALE: ¾" = 1'-0"



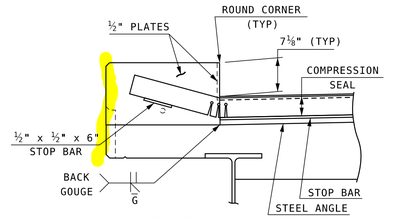
SECTION B-B

SCALE: ¾" = 1'-0"



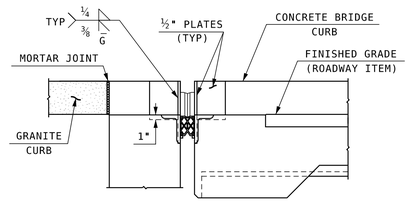
SECTION F-F

SCALE: ¾" = 1'-0"



SECTION G-G

SCALE: ¾" = 1'-0"



SECTION H-H

SCALE: ¾" = 1'-0"

EXPANSION JOINT NOTES

(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 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) 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.

(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) THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY AFTER BOTH ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-0" OF FINISHED GRADE.

(7) 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.

(8) PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.

(9) THE COMPRESSION SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE A WA-XX SEAL BY WATSON BOWMAN OR CV-XXXX BY D.S. BROWN (SHOWN), AS NOTED IN THE QPL.

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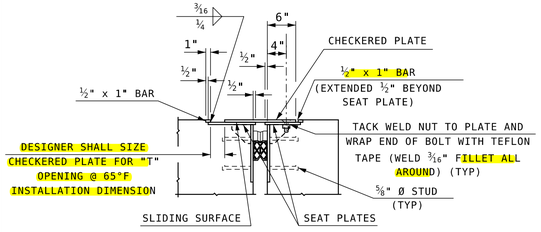
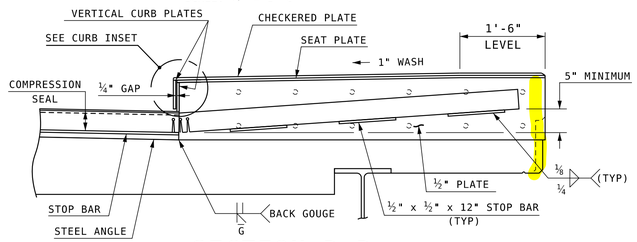
(12) PRIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WORK SHALL BE REMOVED. STEEL ANGLES AND STOP BARS SHALL BE MAINTAINED FREE FROM DIRT, WATER AND ANY OTHER LOOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL BE TAKEN NOT TO DAMAGE GALVANIZED SURFACES.

(13) 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.



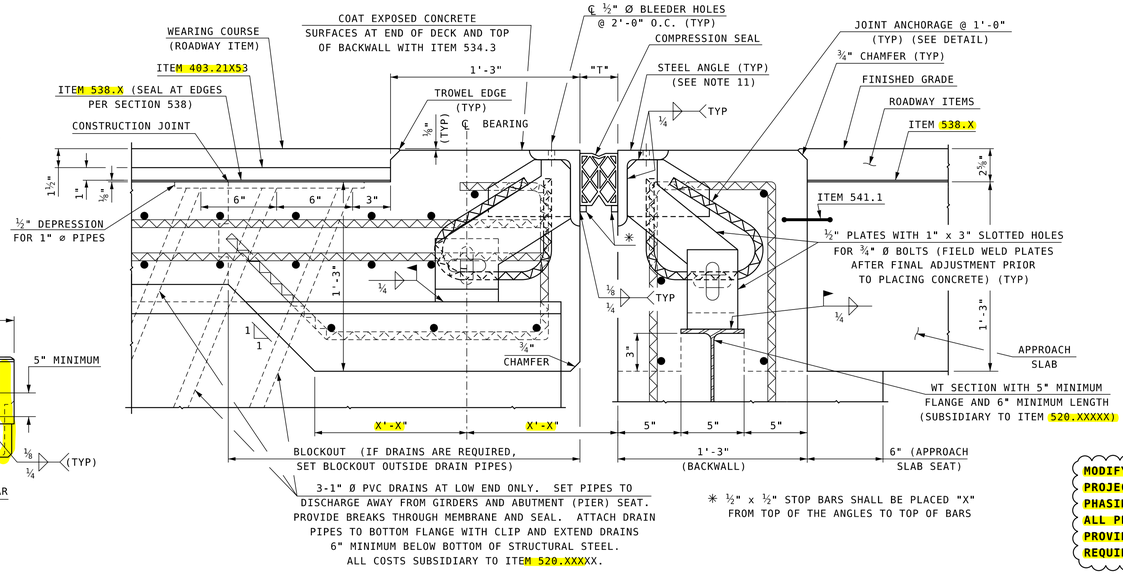
SECTION E-E

SCALE: ¾" = 1'-0"



SECTION D-D

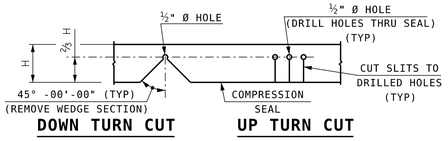
SCALE: ¾" = 1'-0"



SECTION A-A

SCALE: 2" = 1'-0"

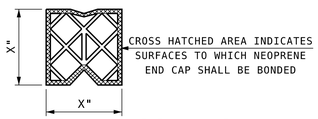
MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC) PROVIDE ADDITIONAL SHEETS AS REQUIRED.



DOWN TURN CUT | UP TURN CUT

RELIEF CUT DETAILS

NOT TO SCALE



UNCOMPRESSED SEAL

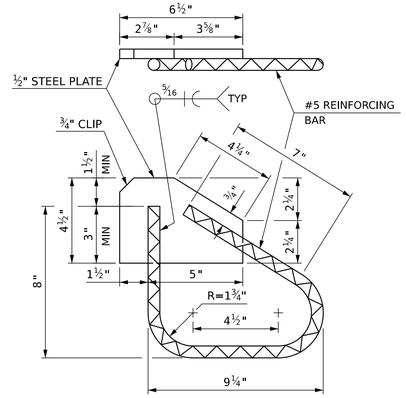
NOT TO SCALE

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE

TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X



ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-BCSW	AS NOTED

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

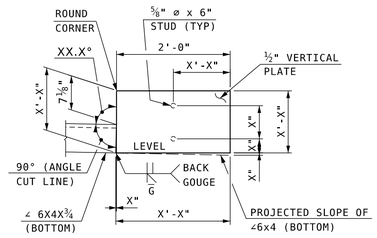
TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

COMPRESSION SEAL EXP. JOINT (1 OF 2)

BRIDGE SHEET OF FILE NUMBER

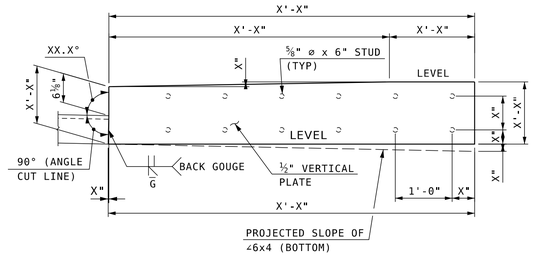
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	9/87	CHECKED	NHDOT	9/87
	DRAWN	PJP	4/13	CHECKED	ABH	4/13
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
	ISSUE DATE	9/87	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
	REV. DATE	7/31/23				



SECTION F-F PLATE

(SECTION G-G SAME DIMENSIONS)

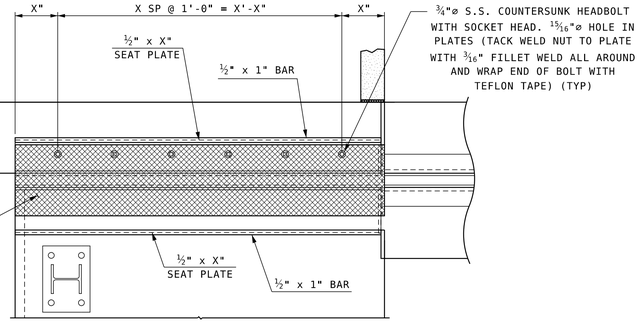
SCALE: ¾" = 1'-0"



SECTION D-D PLATE

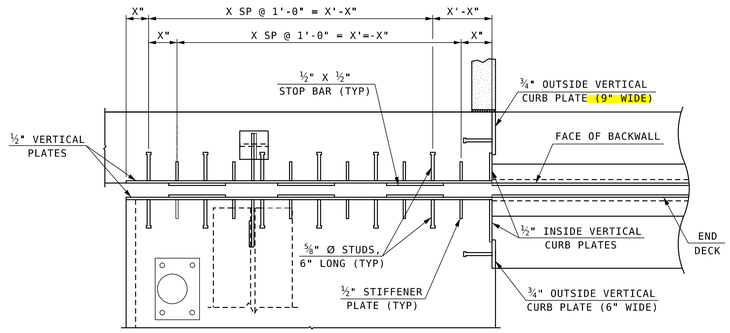
(SECTION C-C SAME DIMENSIONS)

SCALE: ¾" = 1'-0"



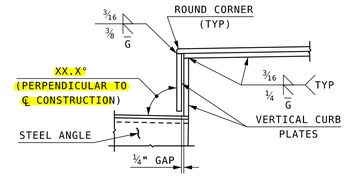
SIDEWALK UPPER ASSEMBLY

SCALE: ¾" = 1'-0"



SIDEWALK LOWER ASSEMBLY

SCALE: ¾" = 1'-0"



CURB INSET

(SIDEWALK SIDE)

NOT TO SCALE

New Detail

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED.

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-BCSW	AS NOTED

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

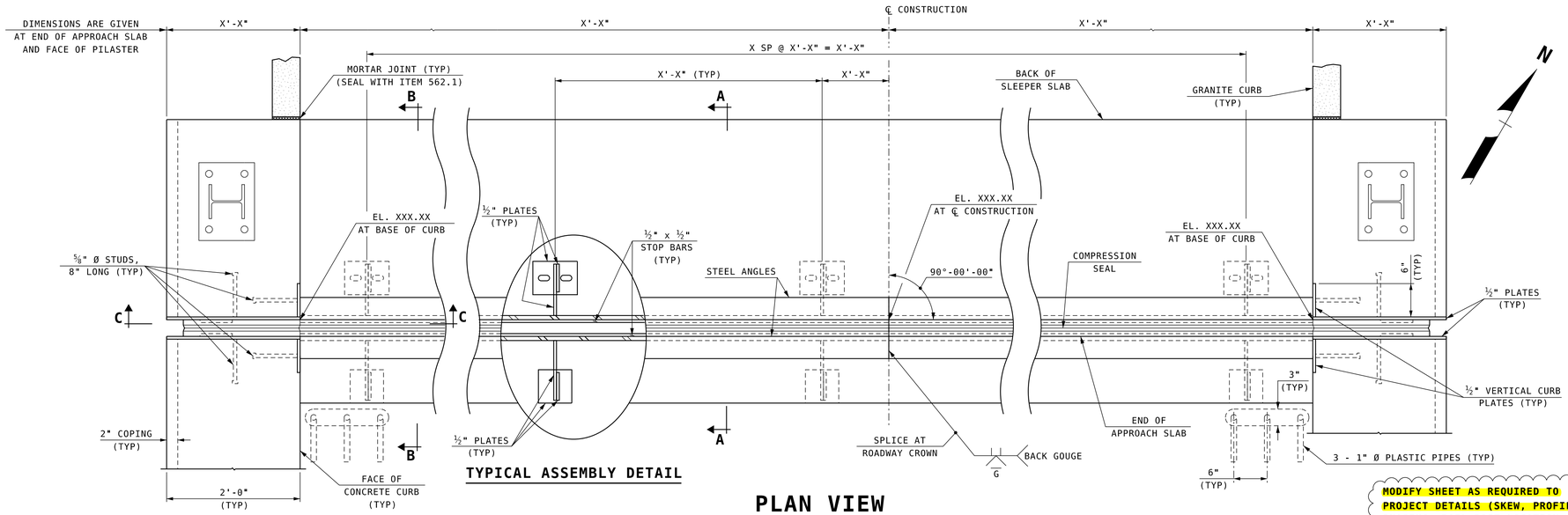
TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

COMPRESSION SEAL EXP. JOINT (2 OF 2)

BRIDGE SHEET OF FILE NUMBER

REVISIONS AFTER PROPOSAL							
				BY	DATE		BY	DATE
			DESIGNED	NHDOT	9/87	CHECKED	NHDOT	9/87
			DRAWN	PJP	4/13	CHECKED	ABH	4/13
			QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
			ISSUE DATE	9/87	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
			REV. DATE	7/31/23				



TYPICAL ASSEMBLY DETAIL

PLAN VIEW

SCALE: 1" = 1'-0"

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED.

EXPANSION JOINT NOTES

(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 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) EXPANSION JOINT OPENING SHALL BE ADJUSTED TO TEMPERATURE ANTICIPATED JUST PRIOR TO POURING CONCRETE. FINAL SETTING IN THE FIELD SHALL BE DETERMINED BY THE CONTRACT ADMINISTRATOR. SEE TEMPERATURE ADJUSTMENT TABLE & NOTES.

(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, 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.

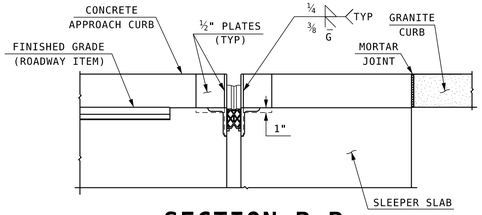
(8) THE COMPRESSION SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE A WA-XX SEAL BY WATSON BOWMAN OR CV-XXXX BY D.S. BROWN (SHOWN), AS NOTED IN THE QPL.

(9) ELEVATIONS SHOWN AT TOP OF ANGLES ARE ⅛" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.

(10) ANGLES 6x4x¾ SHALL BE UTILIZED FOR SEALS LESS THAN 5" (HEIGHT). FOR SEALS GREATER THAN OR EQUAL TO 5" (HEIGHT) STEEL ANGLES SHALL BE 8x4x¾.

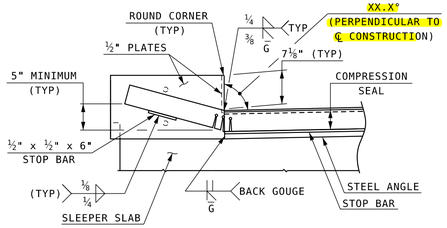
(11) PRIOR TO INSTALLING THE SEAL, ALL TEMPORARY FORM WORK SHALL BE REMOVED. STEEL ANGLES AND STOP BARS SHALL BE MAINTAINED FREE FROM DIRT, WATER AND ANY OTHER LOOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL BE TAKEN NOT TO DAMAGE GALVANIZED SURFACES.

(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.



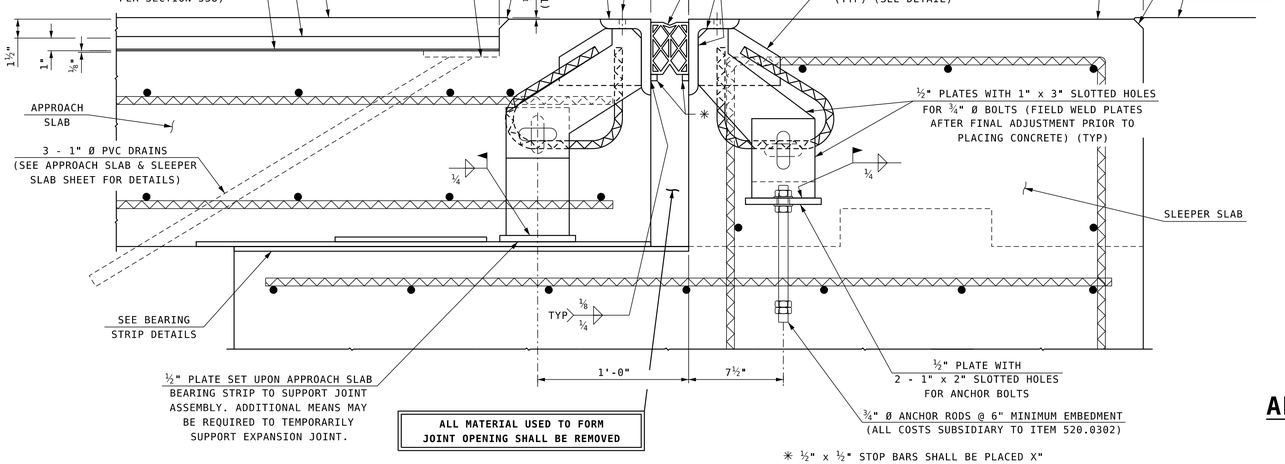
SECTION B-B

SCALE: ¾" = 1'-0"



SECTION C-C

SCALE: ¾" = 1'-0"

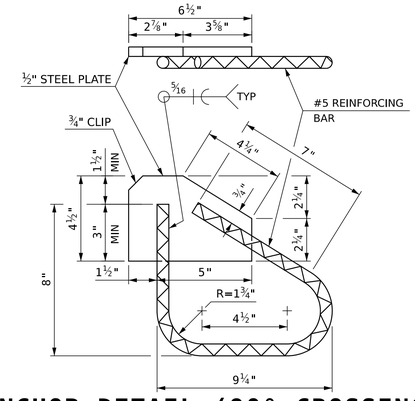


ALL MATERIAL USED TO FORM JOINT OPENING SHALL BE REMOVED

SECTION A-A

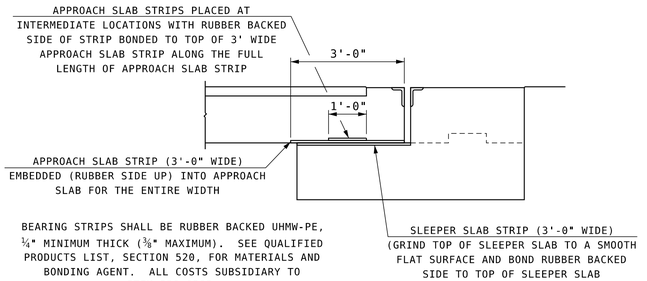
SCALE: 2" = 1'-0"

✳ ½" x ½" STOP BARS SHALL BE PLACED X" FROM TOP OF THE ANGLES TO TOP OF BARS



ANCHOR DETAIL (90° CROSSING)

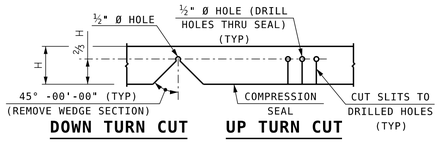
SCALE: 3" = 1'-0"



BEARING STRIPS SHALL BE RUBBER BACKED UHMW-PE, ¼" MINIMUM THICK (⅜" MAXIMUM). SEE QUALIFIED PRODUCTS LIST, SECTION 520, FOR MATERIALS AND BONDING AGENT. ALL COSTS SUBSIDIARY TO ITEM 520.0302.

BEARING STRIP DETAILS

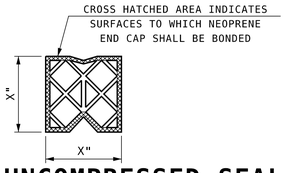
NOT TO SCALE



DOWN TURN CUT UP TURN CUT

RELIEF CUT DETAILS

NOT TO SCALE



UNCOMPRESSED SEAL

NOT TO SCALE

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

TEMPERATURE ADJUSTMENT NOTES

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

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	COMP-SEAL-APPSLPR	AS NOTED

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

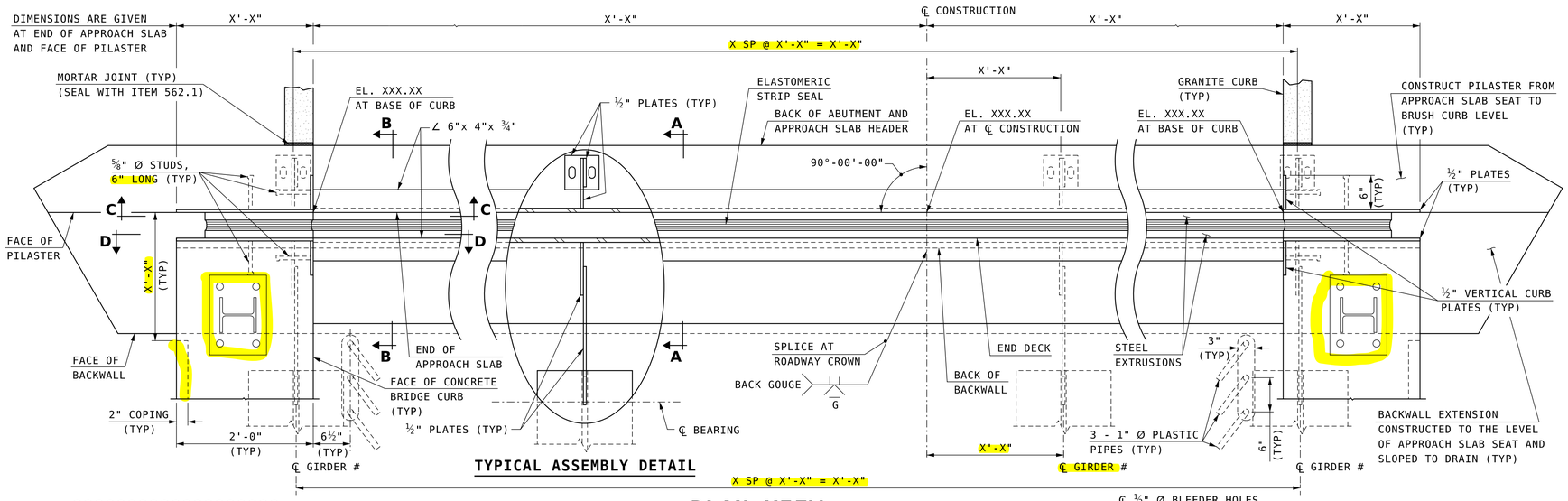
TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

COMPRESSION SEAL EXPANSION JOINT

BRIDGE SHEET OF FILE NUMBER

REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	4/18	CHECKED	NHDOT	4/18
	DRAWN	PJP	4/18	CHECKED	ABH	4/18
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
	ISSUE DATE	4/2018	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
	REV. DATE	7/31/23				

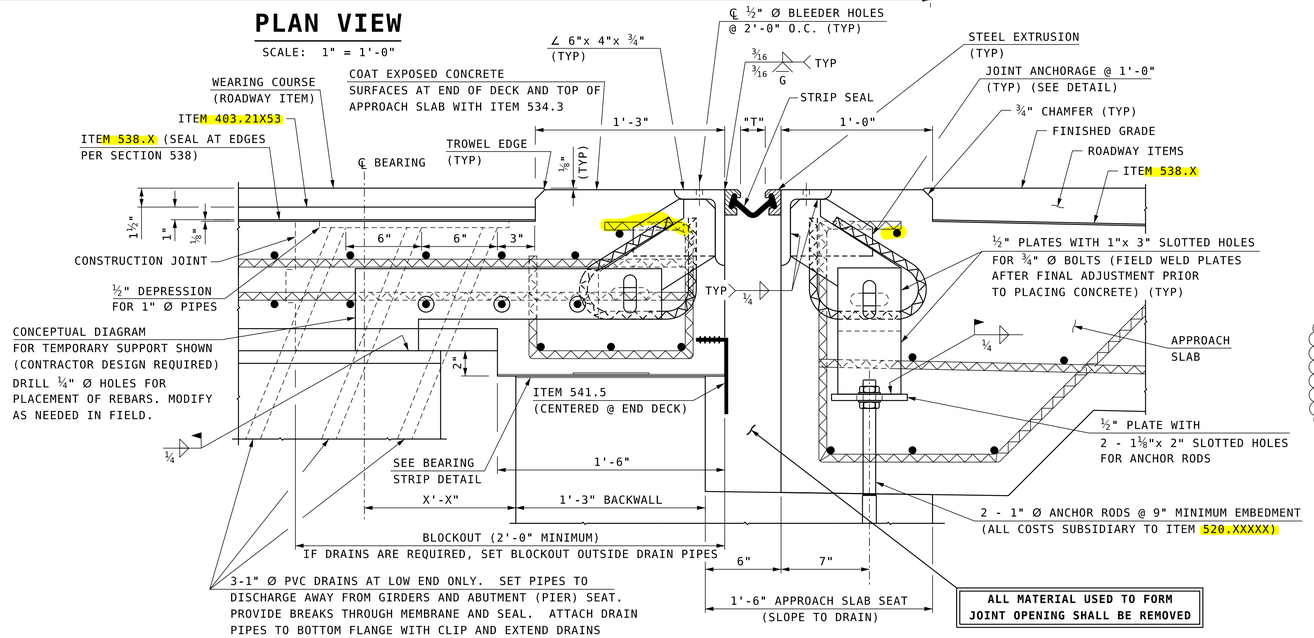


TYPICAL ASSEMBLY DETAIL

SEE COMPRESSION SEAL DETAILS FOR EXAMPLE OF SIDEWALK PLATES

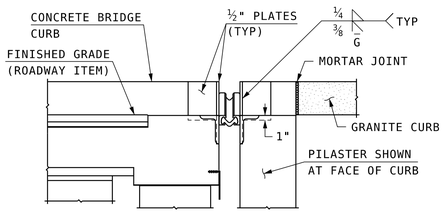
PLAN VIEW

SCALE: 1" = 1'-0"



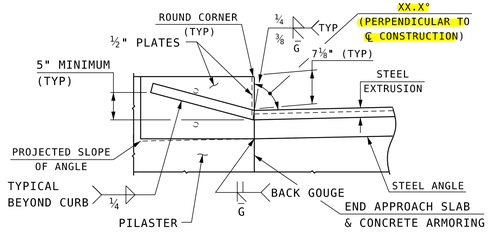
SECTION A-A

SCALE: 2" = 1'-0"



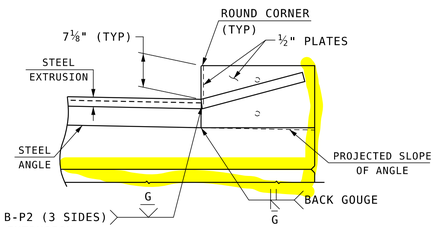
SECTION B-B

SCALE: ¾" = 1'-0"



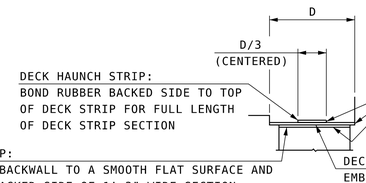
SECTION C-C

SCALE: ¾" = 1'-0"



SECTION D-D

SCALE: ¾" = 1'-0"



BEARING STRIP DETAIL

NOT TO SCALE

EXPANSION JOINT NOTES

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 561.1001, PREFABRICATED STRIP SEAL EXPANSION JOINT (F).
2. SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.
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.
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.
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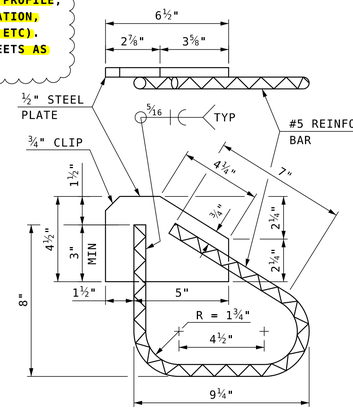
6. THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY AFTER BOTH ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-0" OF FINISHED GRADE.
7. IMMEDIATELY AFTER THE JOINT HAS BEEN SECURED TO THE STRUCTURAL STEEL AND BACKWALL, REMOVE SHIPPING DEVICES AND GRIND SMOOTH ANY WELDS ON EXPOSED SURFACES. REPAIR ANY DAMAGE TO GALVANIZED SURFACES IN ACCORDANCE WITH SECTION 550.2.
8. PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
9. THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN (SHOWN) OR A2R-400 BY D.S. BROWN, AS NOTED IN THE QPL.
10. ELEVATIONS SHOWN AT TOP OF ANGLES ARE ⅛" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.
11. NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED. SEE QPL FOR APPROVED PRODUCTS.
12. 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 LOOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL BE TAKEN NOT TO DAMAGE GALVANIZED SURFACES.
13. 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 561.1001.

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEEETS AS REQUIRED.



ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

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

TOWN | BRIDGE NO. | STATE PROJECT

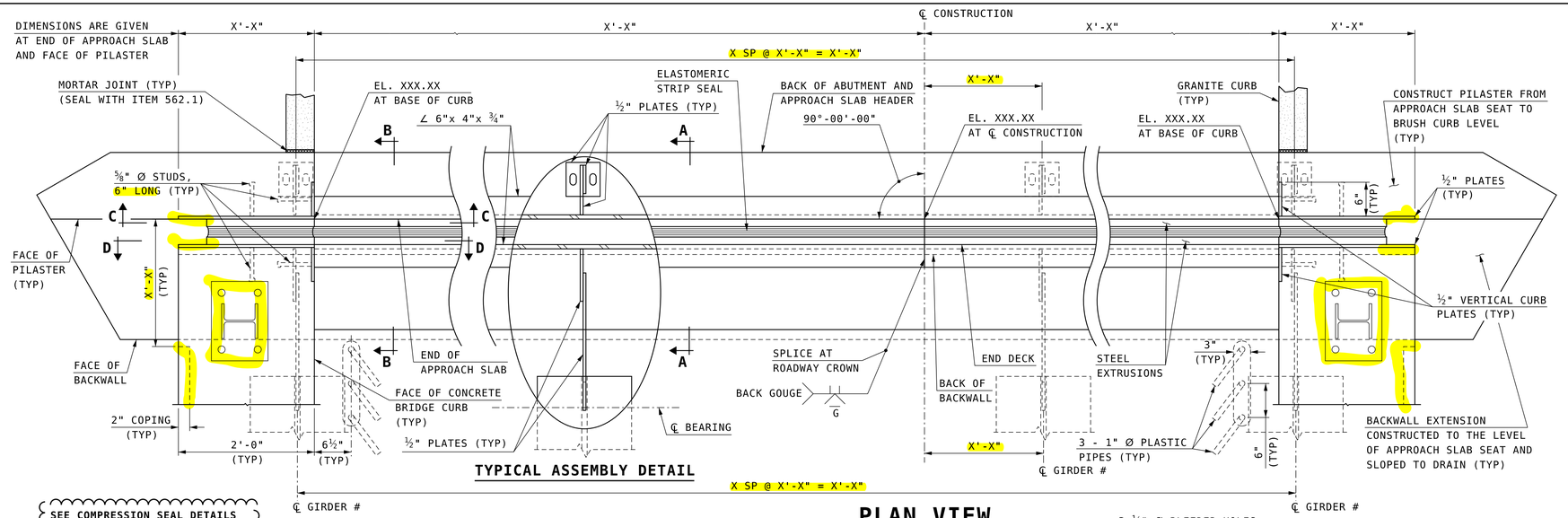
LOCATION

STRIP SEAL EXPANSION JOINT

BRIDGE SHEET OF FILE NUMBER

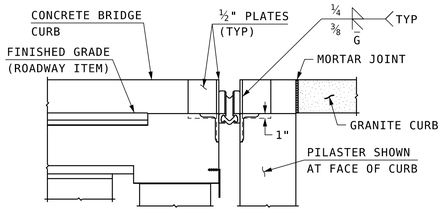
REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	2/89	CHECKED	NHDOT	2/89
	DRAWN	PJP	4/13	CHECKED	ABH	4/13
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
	ISSUE DATE	2/89	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
	REV. DATE	7/31/23				

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINT	Strip-Seal-Bkwall	AS NOTED



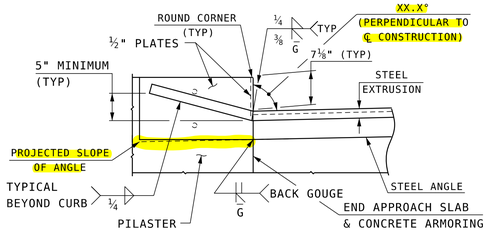
TYPICAL ASSEMBLY DETAIL

SEE COMPRESSION SEAL DETAILS FOR EXAMPLE OF SIDEWALK PLATES



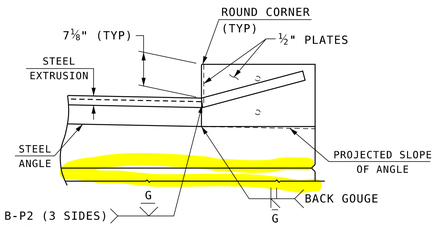
SECTION B-B

SCALE: ¾" = 1'-0"



SECTION C-C

SCALE: ¾" = 1'-0"



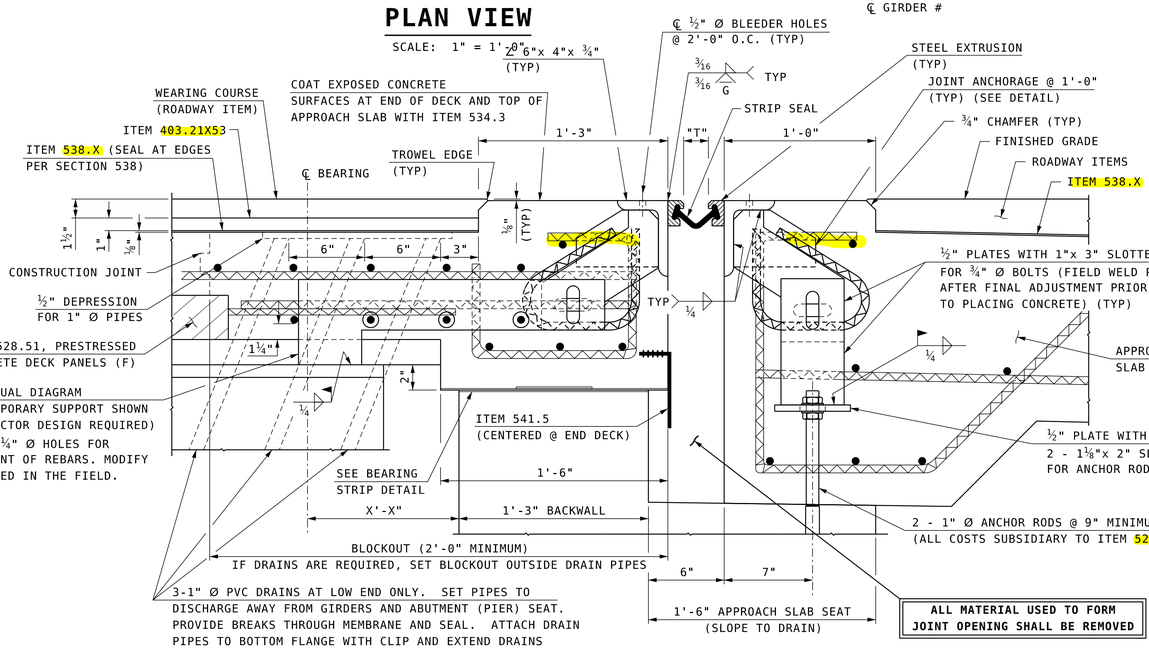
BEVEL AND WELD EXTRUSION. GRIND CONTOUR SMOOTH WHERE IN CONTACT WITH SEAL FOR A WATER TIGHT FIT. (TYP)

SECTION D-D

SCALE: ¾" = 1'-0"

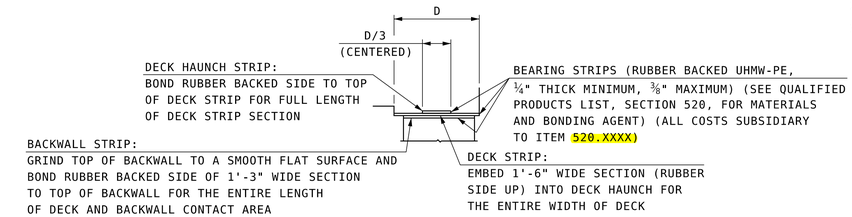
PLAN VIEW

SCALE: 1" = 1'-0"



SECTION A-A

SCALE: 2" = 1'-0"



BEARING STRIP DETAIL

NOT TO SCALE

EXPANSION JOINT NOTES

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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.
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6. THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY AFTER BOTH ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-0" OF FINISHED GRADE.
7. 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.
8. PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
9. THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN (SHOWN) OR A2R-400 BY D.S. BROWN, AS NOTED IN THE QPL.
10. ELEVATIONS SHOWN AT TOP OF ANGLES ARE ⅛" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.
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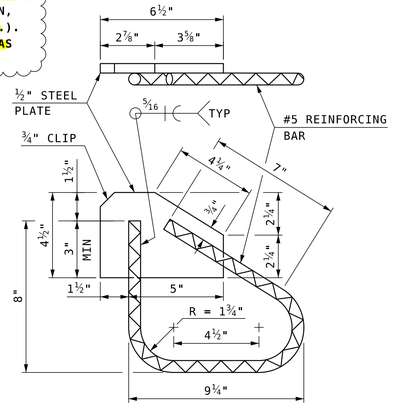
MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC.). PROVIDE ADDITIONAL SHEETS AS REQUIRED.



ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	Strip-Seal-Bkwall-Panel	AS NOTED

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

TOWN | BRIDGE NO. | STATE PROJECT

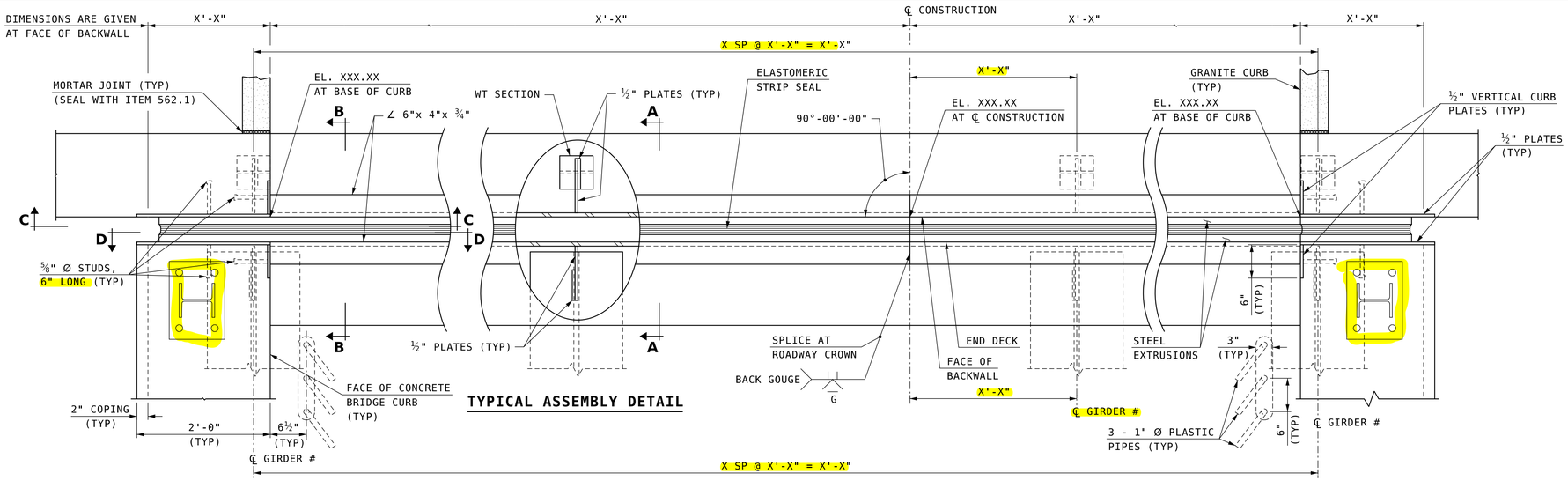
LOCATION

STRIP SEAL EXPANSION JOINT

BRIDGE SHEET OF

FILE NUMBER

REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	2/89	CHECKED	NHDOT	2/89
	DRAWN	PJP	4/13	CHECKED	ABH	4/13
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX
	ISSUE DATE	2/89	FEDERAL PROJECT NO.		SHEET NO.	TOTAL SHEETS
	REV. DATE	7/31/23				

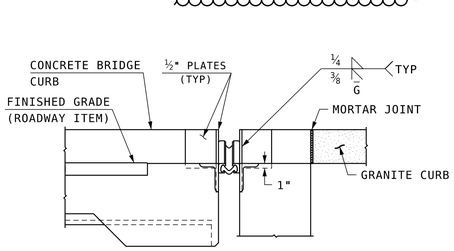


TYPICAL ASSEMBLY DETAIL

SEE COMPRESSION SEAL DETAILS FOR EXAMPLE OF SIDEWALK PLATES

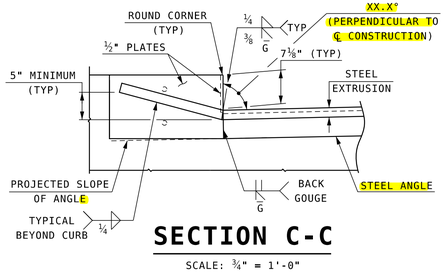
PLAN VIEW

SCALE: 1" = 1'-0"



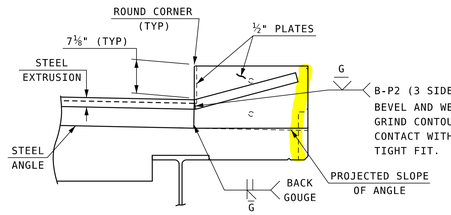
SECTION B-B

SCALE: ¾" = 1'-0"



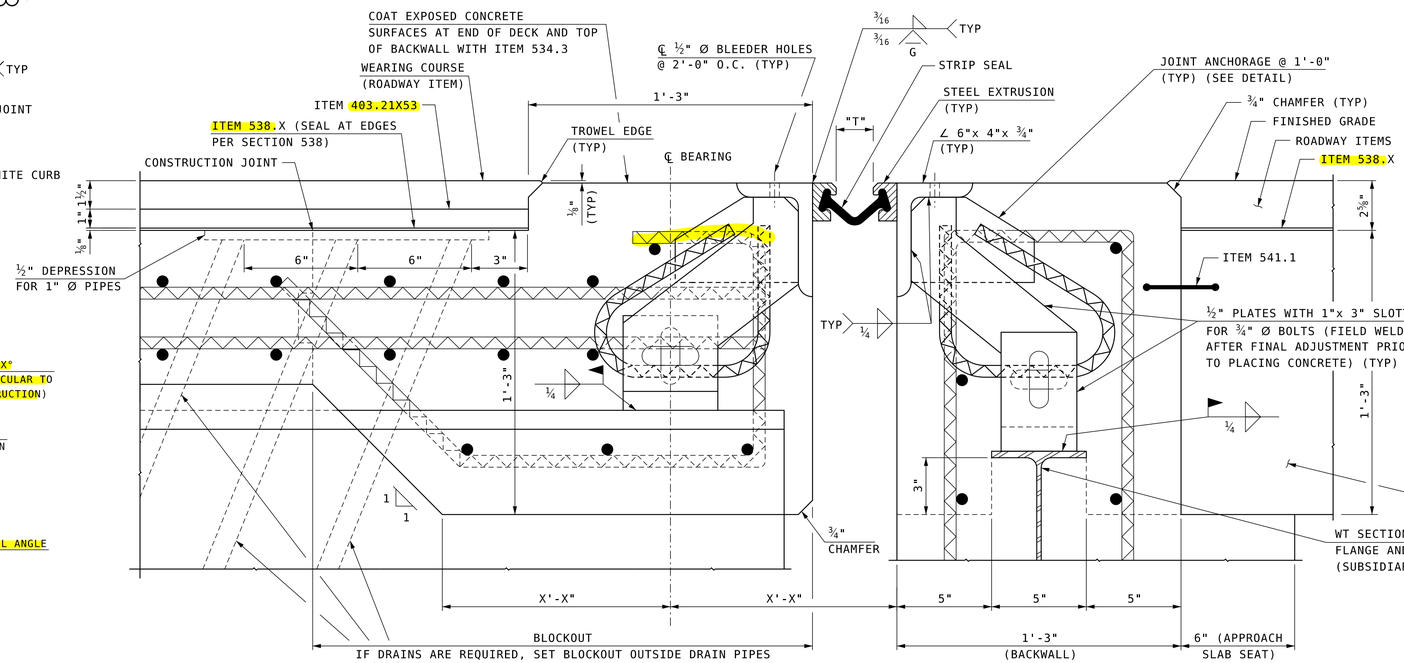
SECTION C-C

SCALE: ¾" = 1'-0"



SECTION D-D

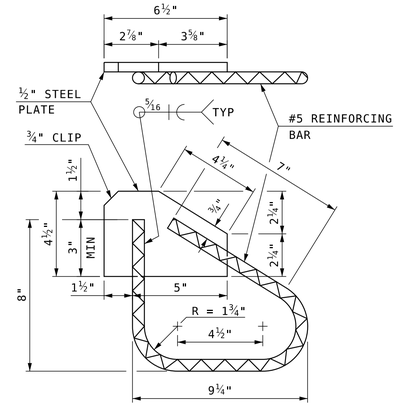
SCALE: ¾" = 1'-0"



3-1" Ø PVC DRAINS AT LOW END ONLY. SET PIPES TO DISCHARGE AWAY FROM GIRDERS AND ABUTMENT (PIER) SEAT. PROVIDE BREAKS THROUGH MEMBRANE AND SEAL. ATTACH DRAIN PIPES TO BOTTOM FLANGE WITH CLIP AND EXTEND DRAINS 6" MINIMUM BELOW BOTTOM OF STRUCTURAL STEEL. ALL COSTS SUBSIDIARY TO ITEM 520.XXXXX.

SECTION A-A

SCALE: 3" = 1'-0"



ANCHOR DETAIL (90° CROSSING)

SCALE: 3" = 1'-0"

MODIFY SHEET AS REQUIRED TO PROJECT DETAILS (SKEW, PROFILE, PHASING, RAIL POST LOCATION, ALL PERTINENT DETAILS, ETC). PROVIDE ADDITIONAL SHEETS AS REQUIRED.

TEMPERATURE ADJUSTMENT NOTES

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

TEMPERATURE ADJUSTMENT TABLE	
TEMPERATURE	"T"
20°F	X
35°F	X
50°F	X
65°F	X
80°F	X
95°F	X

EXPANSION JOINT NOTES

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 561.1001, PREFABRICATED STRIP SEAL EXPANSION JOINT (F).
2. SPLICES FOR STEEL ANGLES SHALL DEVELOP FULL STRENGTH.
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.
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.
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 TIGHTNESS.
6. THE EXPANSION JOINT ASSEMBLY SHALL BE INSTALLED ONLY AFTER BOTH ABUTMENTS HAVE BEEN BACKFILLED TO WITHIN 3'-0" OF FINISHED GRADE.
7. 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.
8. PROTECT TOP OF EXPANSION JOINT DURING PLACEMENT OF CONCRETE AND BITUMINOUS PAVEMENT.
9. THE STRIP SEAL HAS BEEN DESIGNED FOR A TOTAL FACTORED MOVEMENT OF XX INCHES. DESIGN INCLUDES MOVEMENT DUE TO TEMPERATURE, SKEW, SHRINKAGE AND MINIMUM INSTALLATION WIDTH. THE CONTRACTOR SHALL USE AN SE-400 SEAL BY WATSON BOWMAN (SHOWN) OR A2R-400 BY D.S. BROWN, AS NOTED IN THE QPL.
10. ELEVATIONS SHOWN AT TOP OF ANGLES ARE ⅛" LOWER THAN PROPOSED FINISHED ROADWAY GRADE.
11. NO "LOW PROFILE" STEEL EXTRUSIONS SHALL BE ALLOWED. SEE QPL FOR APPROVED PRODUCTS.
12. 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 LOOSE DEBRIS, WITH THE USE OF COMPRESSED AIR, TO ENSURE PROPER FIT OF THE SEAL. CARE SHALL BE TAKEN NOT TO DAMAGE GALVANIZED SURFACES.
13. 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 561.1001.

SUBDIRECTORY	.DGN LOCATOR	SHEET SCALE
EXPANSION JOINTS	Strip-Seal-BC	AS NOTED

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

TOWN | BRIDGE NO. | STATE PROJECT

LOCATION

STRIP SEAL EXPANSION JOINT

BRIDGE SHEET OF FILE NUMBER

REVISIONS AFTER PROPOSAL		BY	DATE		BY	DATE
	DESIGNED	NHDOT	2/89	CHECKED	NHDOT	2/89
	DRAWN	PJP	4/13	CHECKED	ABH	4/13
	QUANTITIES	XXX	XX/XX	CHECKED	XXX	XX/XX

ISSUE DATE	2/89	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
REV. DATE	7/31/23			

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

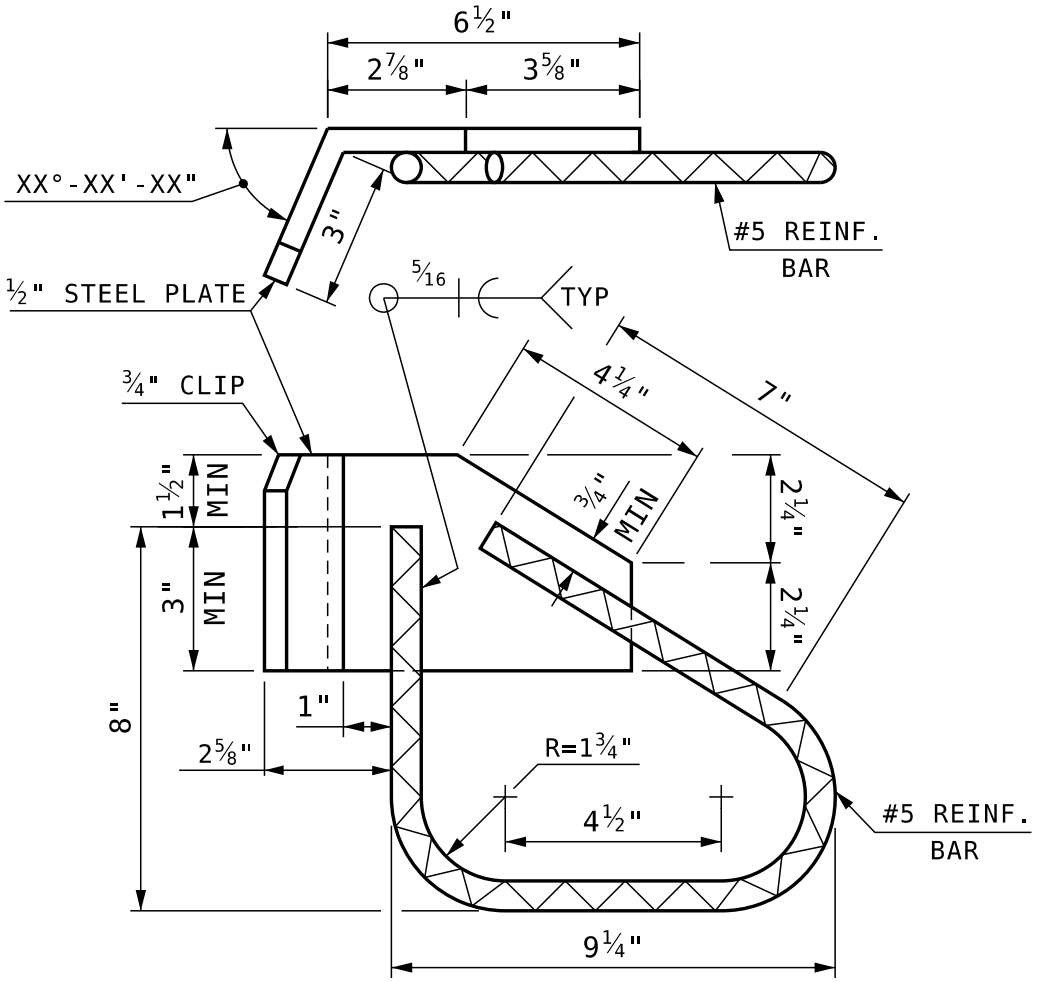
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

EXPANSION JOINTS -
ANCHOR DETAIL FOR SKEWED BRIDGES

DATE REVISED:

7/31/2023



ANCHOR DETAILS (SKEWED)

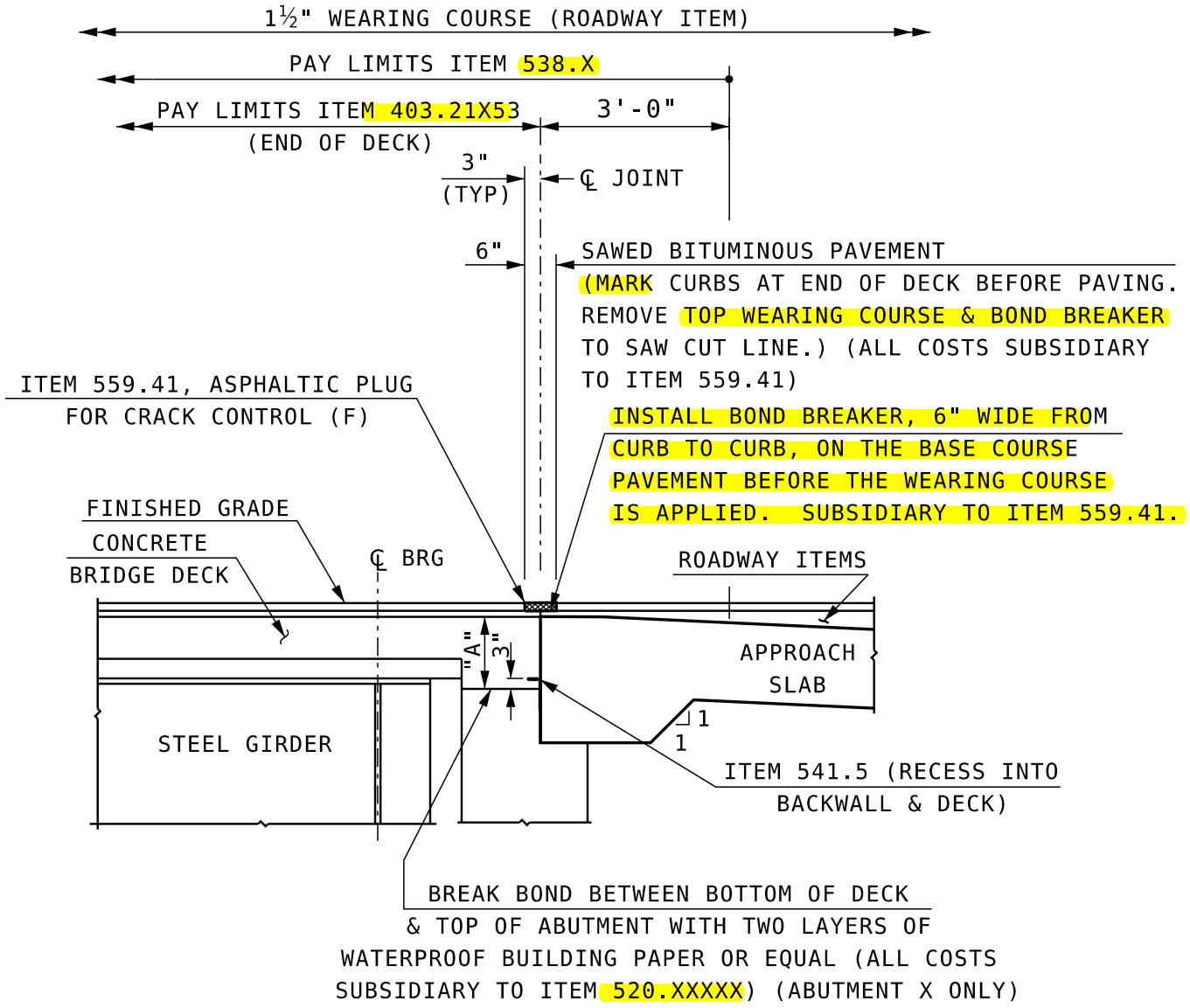
1. IF EXPANSION JOINT IS LOCATED BEHIND THE BACKWALL AND BRIDGE IS SKEWED, THE ANCHOR DETAIL FOR BOTH THE DECK AND APPROACH SLAB OR STUBWALL SHALL BE FABRICATED TO MATCH THE BRIDGE SKEW AND IN-LINE WITH THE LONGITUDINAL REINFORCING.
2. IF EXPANSION JOINT IS LOCATED IN FRONT OF THE BACKWALL AND BRIDGE IS SKEWED, THE ANCHOR DETAIL FOR THE DECK SHALL BE FABRICATED TO MATCH THE BRIDGE SKEW AND IN-LINE WITH LONGITUDINAL REINFORCING. THE ANCHOR DETAIL FOR THE BACKWALL SHALL BE 90°.

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION: ASPHALTIC PLUG FOR CRACK CONTROL - STEEL GIRDER

DATE REVISED: 7/31/2023



A = DECK THICKNESS + HAUNCH + FLANGE + 1"

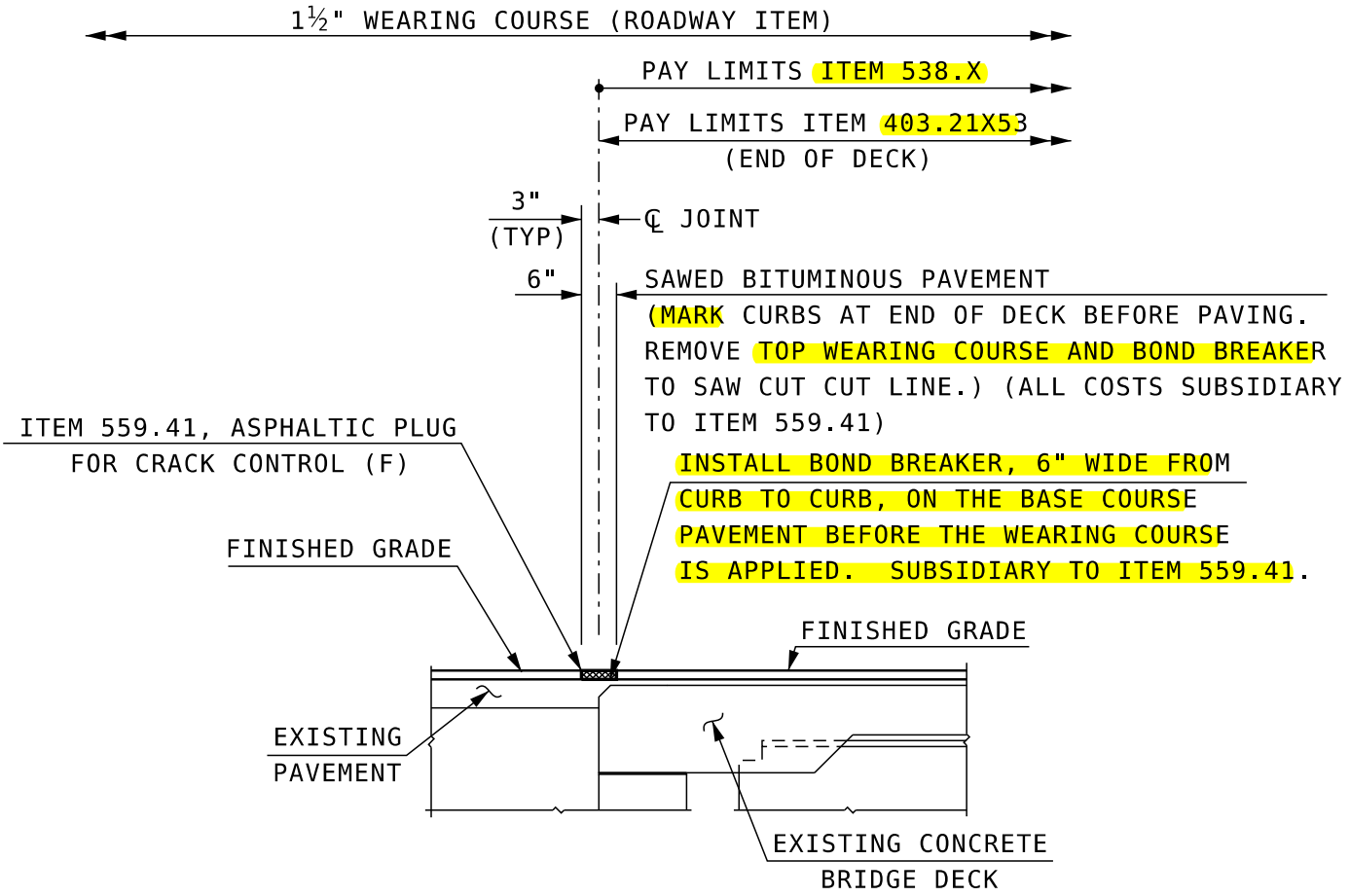
ASPHALTIC PLUG FOR CRACK CONTROL (APPROACH SLAB - FIXED END)

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
ASPHALTIC PLUG FOR CRACK CONTROL - NO APPROACH SLAB	7/31/2023



ASPHALTIC PLUG FOR CRACK CONTROL

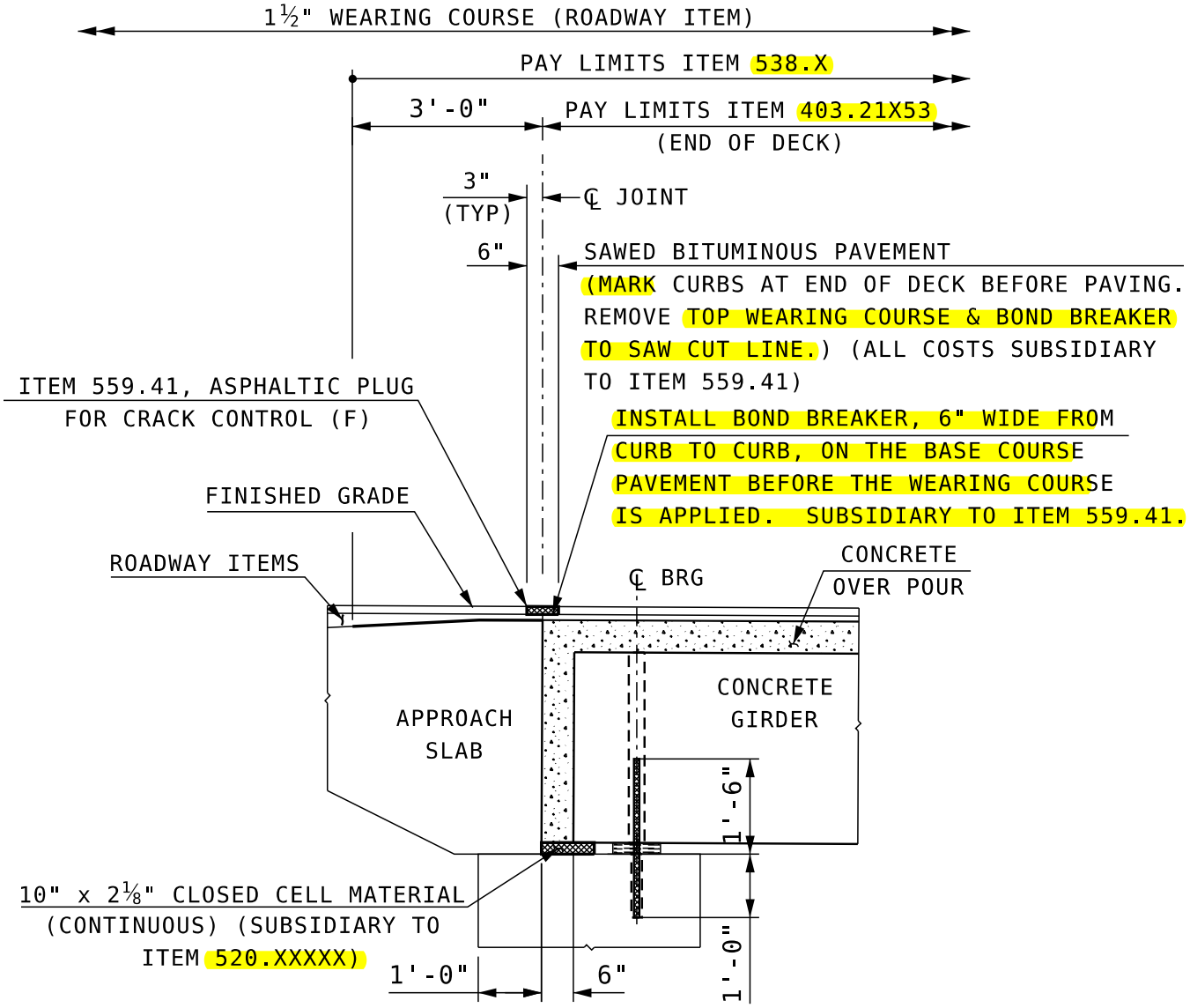
(NO APPROACH SLAB - FIXED END)

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
ASPHALTIC PLUG FOR CRACK CONTROL - CONCRETE GIRDER	7/31/2023



ASPHALTIC PLUG FOR CRACK CONTROL

(APPROACH SLAB - FIXED END)

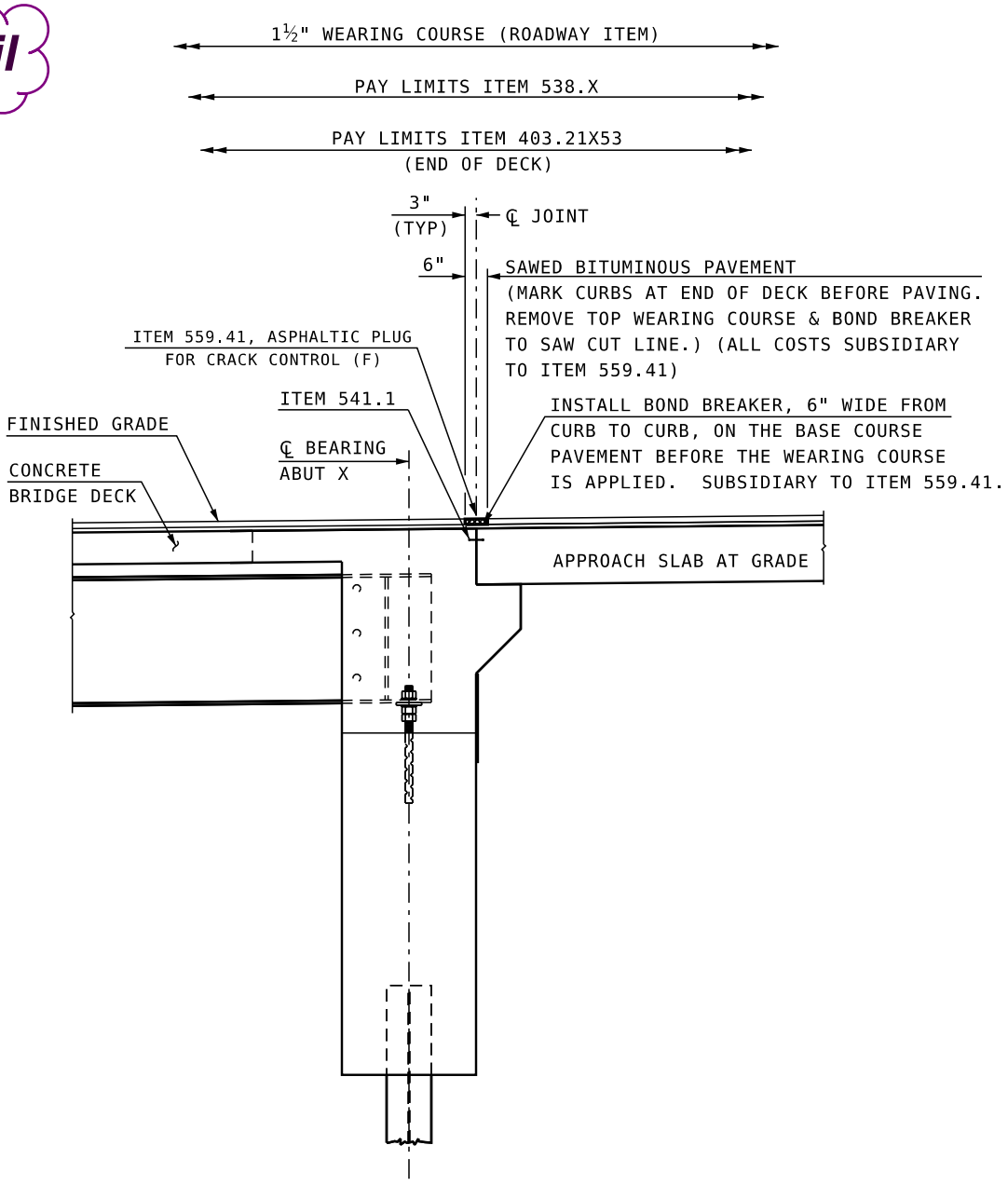
MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
ASPHALTIC PLUG FOR CRACK CONTROL - INTEGRAL ABUTMENT	7/31/2023

New Detail



ASPHALTIC PLUG FOR CRACK CONTROL
INTEGRAL ABUTMENT SECTION

MODIFY TO FIT PROJECT

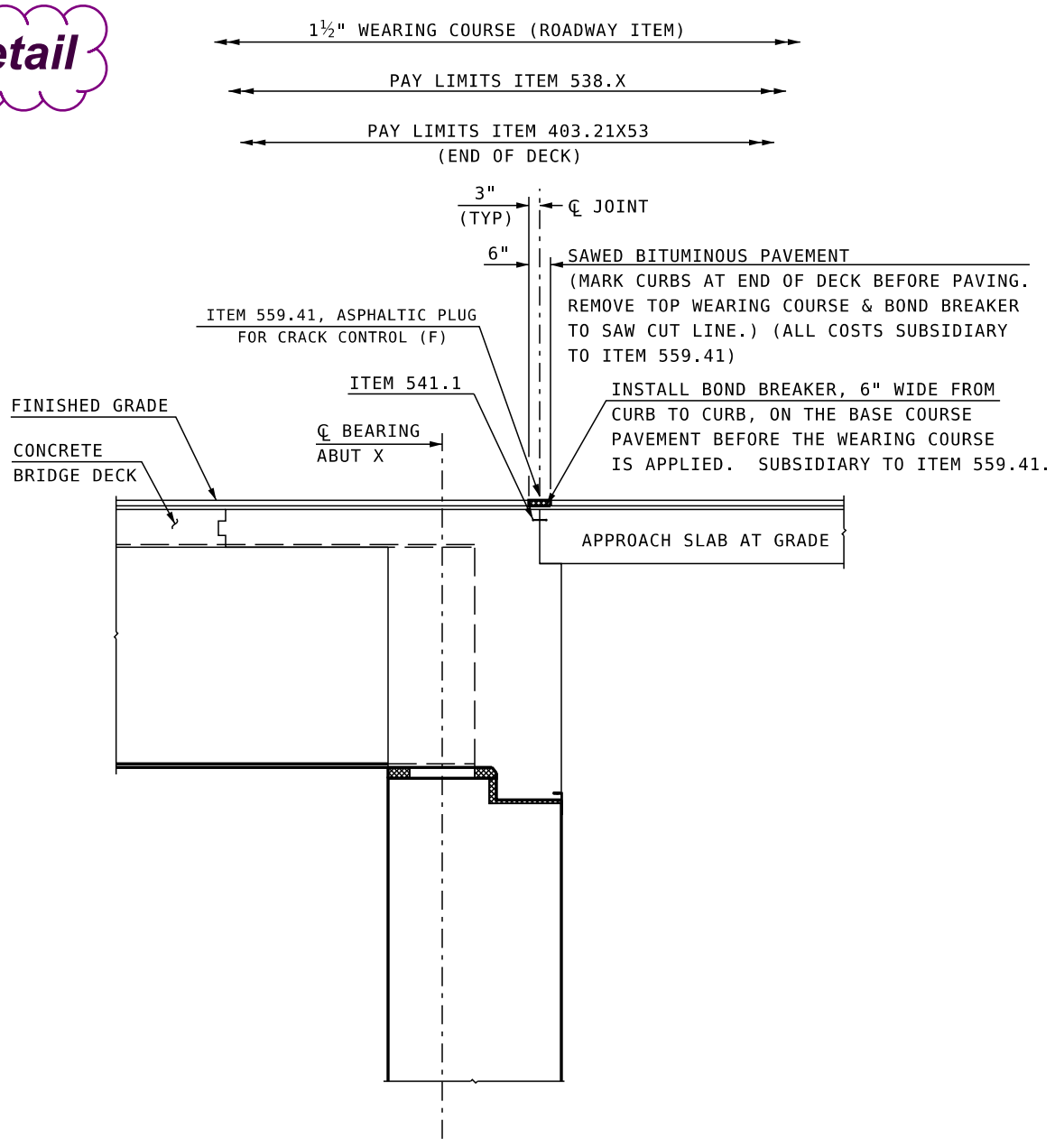
NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION: ASPHALTIC PLUG FOR CRACK CONTROL - SEMI-INTEGRAL ABUTMENT

DATE REVISED: 7/31/2023

New Detail



ASPHALTIC PLUG FOR CRACK CONTROL
SEMI-INTEGRAL ABUTMENT SECTION

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

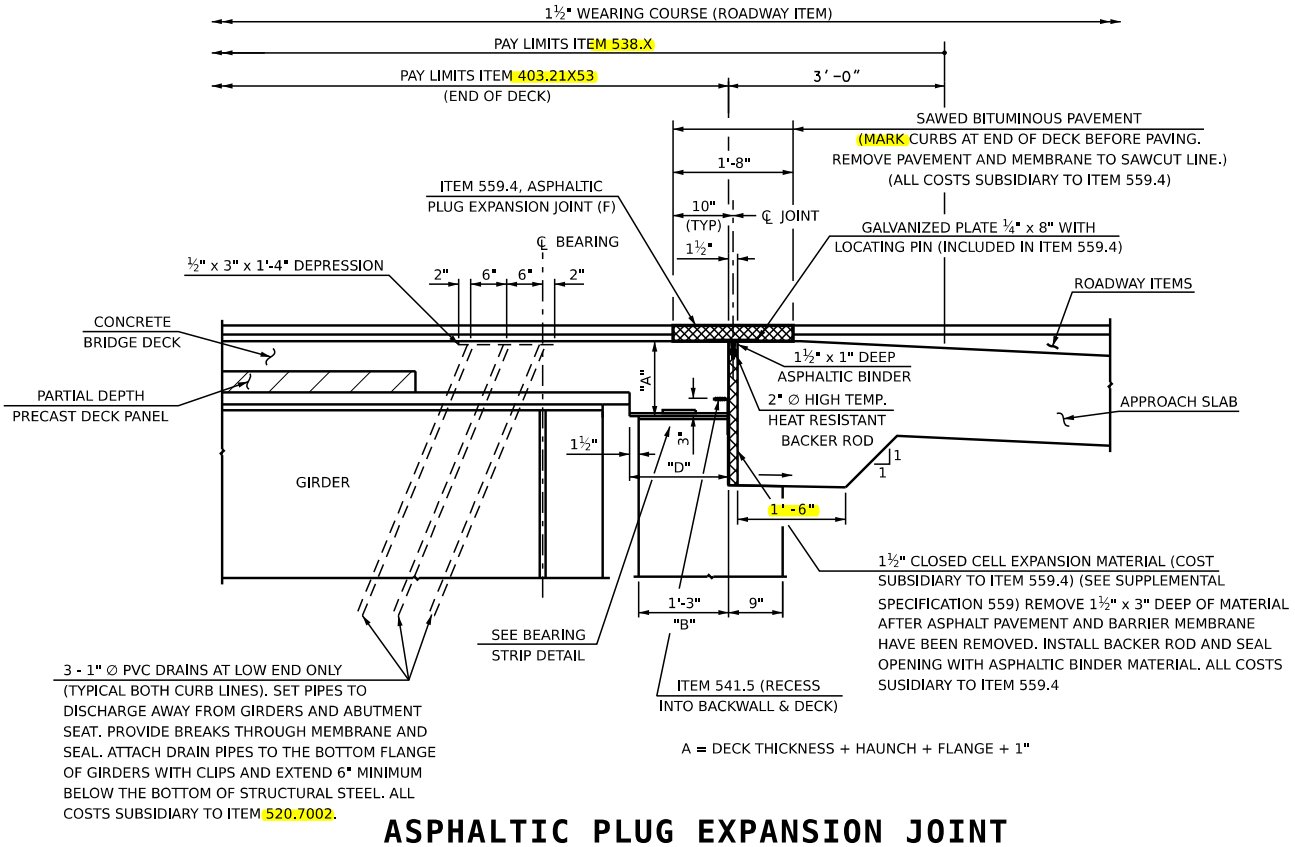
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

ASPHALTIC PLUG EXPANSION JOINT - DECK PANEL - STEEL GIRDER

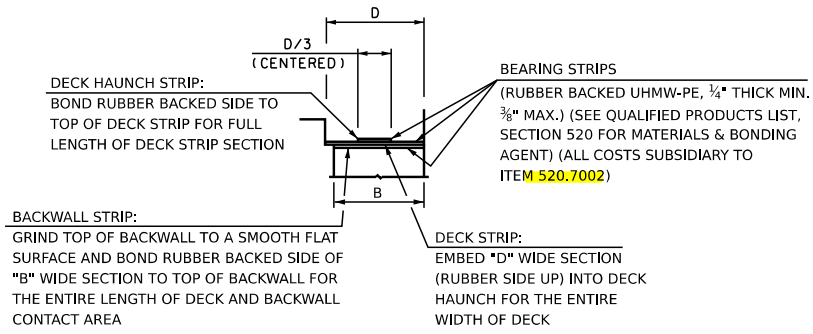
DATE REVISED:

7/31/2023



ASPHALTIC PLUG EXPANSION JOINT
(DECK PANEL STEEL GIRDER - EXPANSION END)

NOT TO SCALE



BEARING STRIP DETAIL

NOT TO SCALE

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

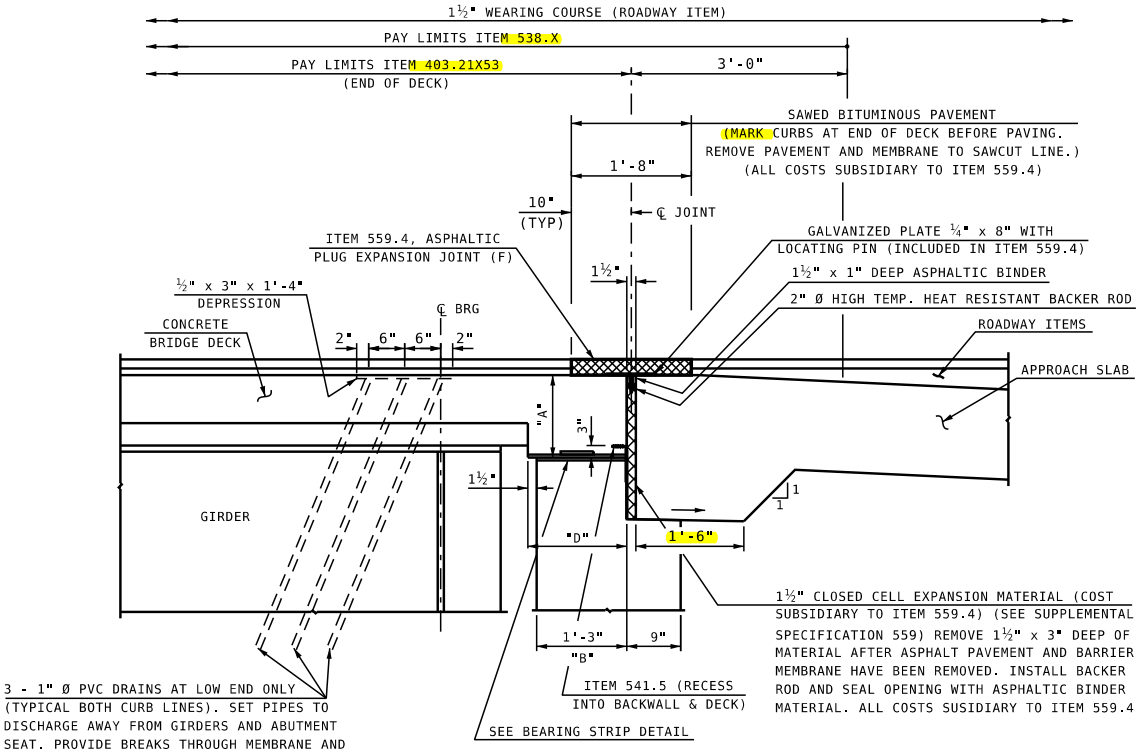
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

ASPHALTIC PLUG EXPANSION JOINT - STEEL GIRDER

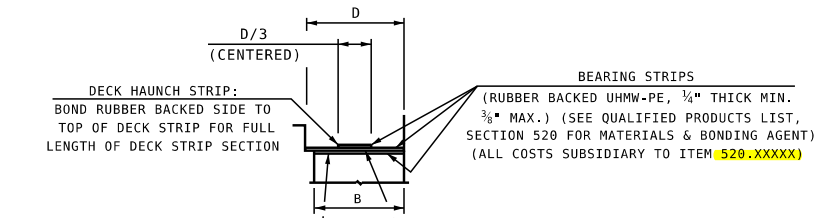
DATE REVISED:

7/31/2023



ASPHALTIC PLUG EXPANSION JOINT (APPROACH SLAB - EXPANSION END)

NOT TO SCALE



BEARING STRIP DETAIL

NOT TO SCALE

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

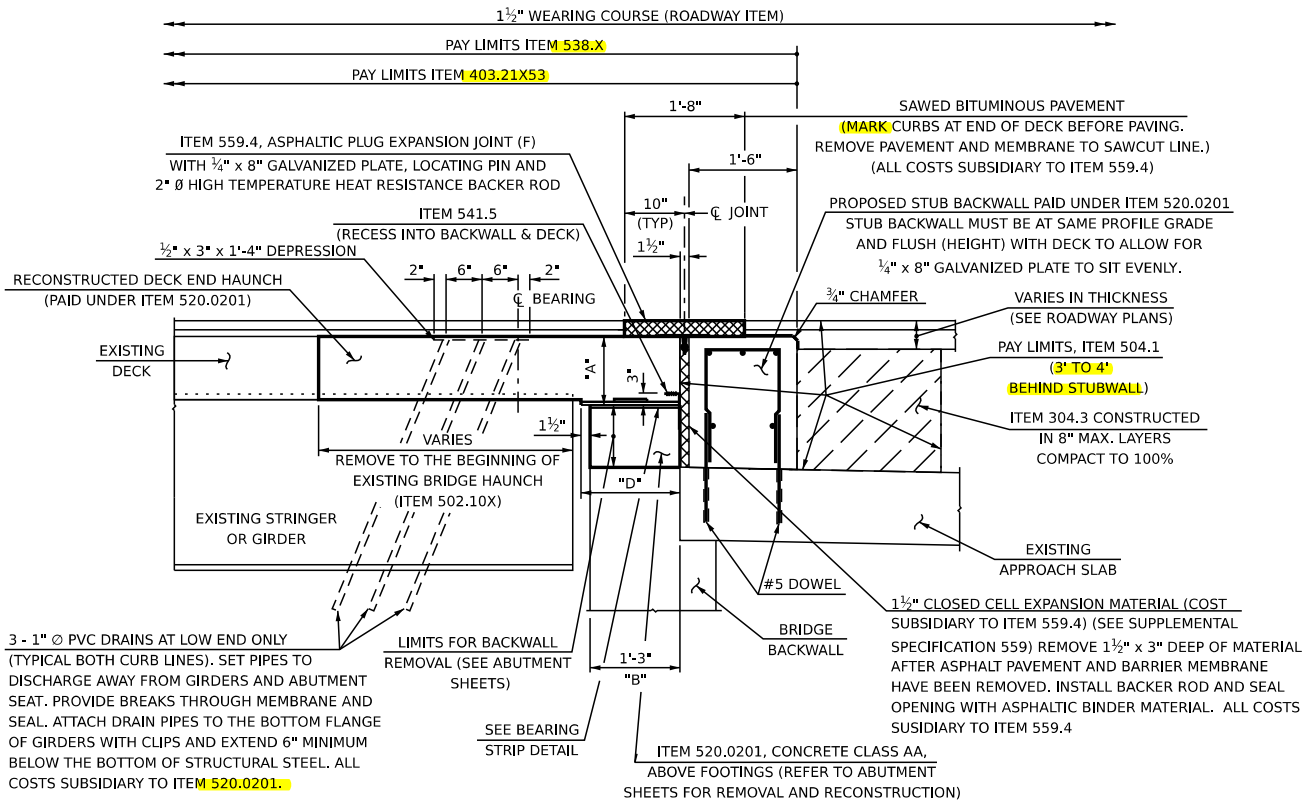
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

ASPHALTIC PLUG EXPANSION JOINT - JOINT REHABILITATION

DATE REVISED:

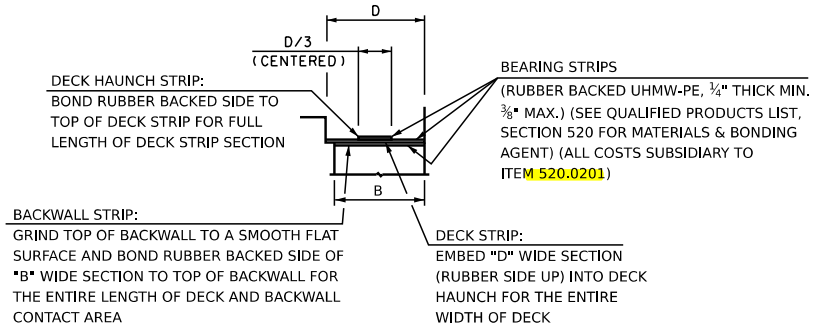
7/31/2023



A = DECK THICKNESS + HAUNCH + FLANGE + 1"

ASPHALTIC PLUG EXPANSION JOINT (STUB WALL - EXPANSION END)

NOT TO SCALE



BEARING STRIP DETAIL

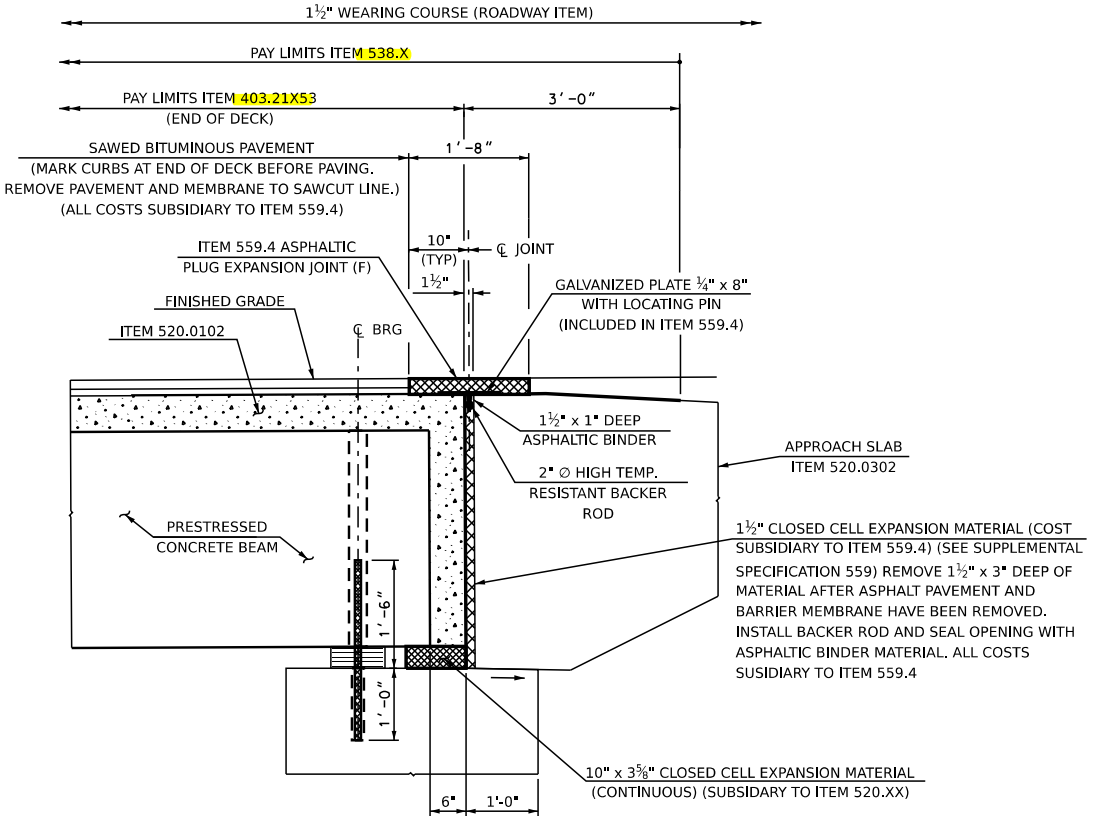
NOT TO SCALE

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
ASPHALTIC PLUG EXPANSION JOINT - CONCRETE GIRDER	7/31/2023



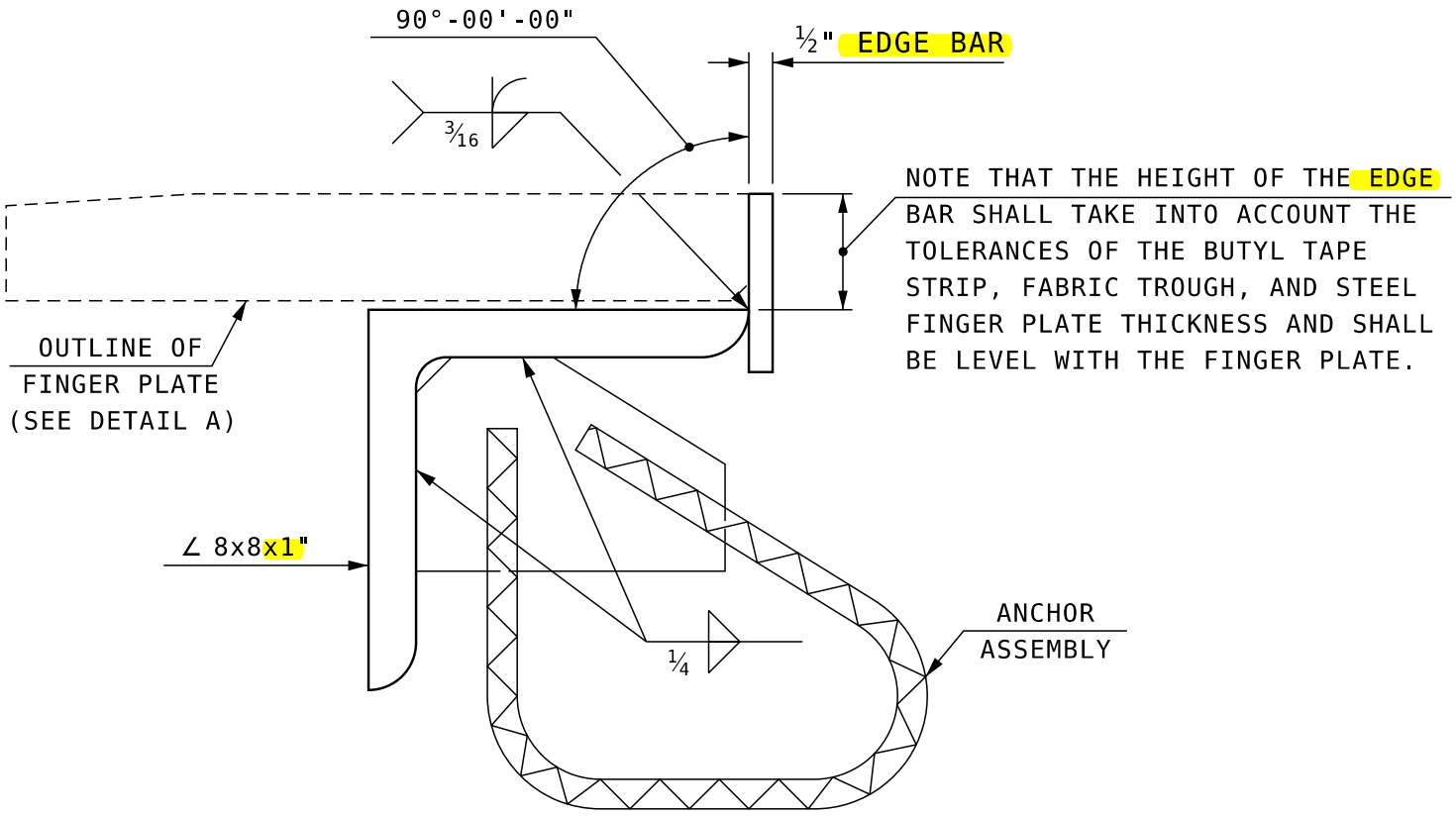
ASPHALTIC PLUG EXPANSION JOINT
(APPROACH SLAB - EXPANSION END)

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - EDGE BAR DETAIL FOR FINGER JOINT (ANGLE)	7/31/2023

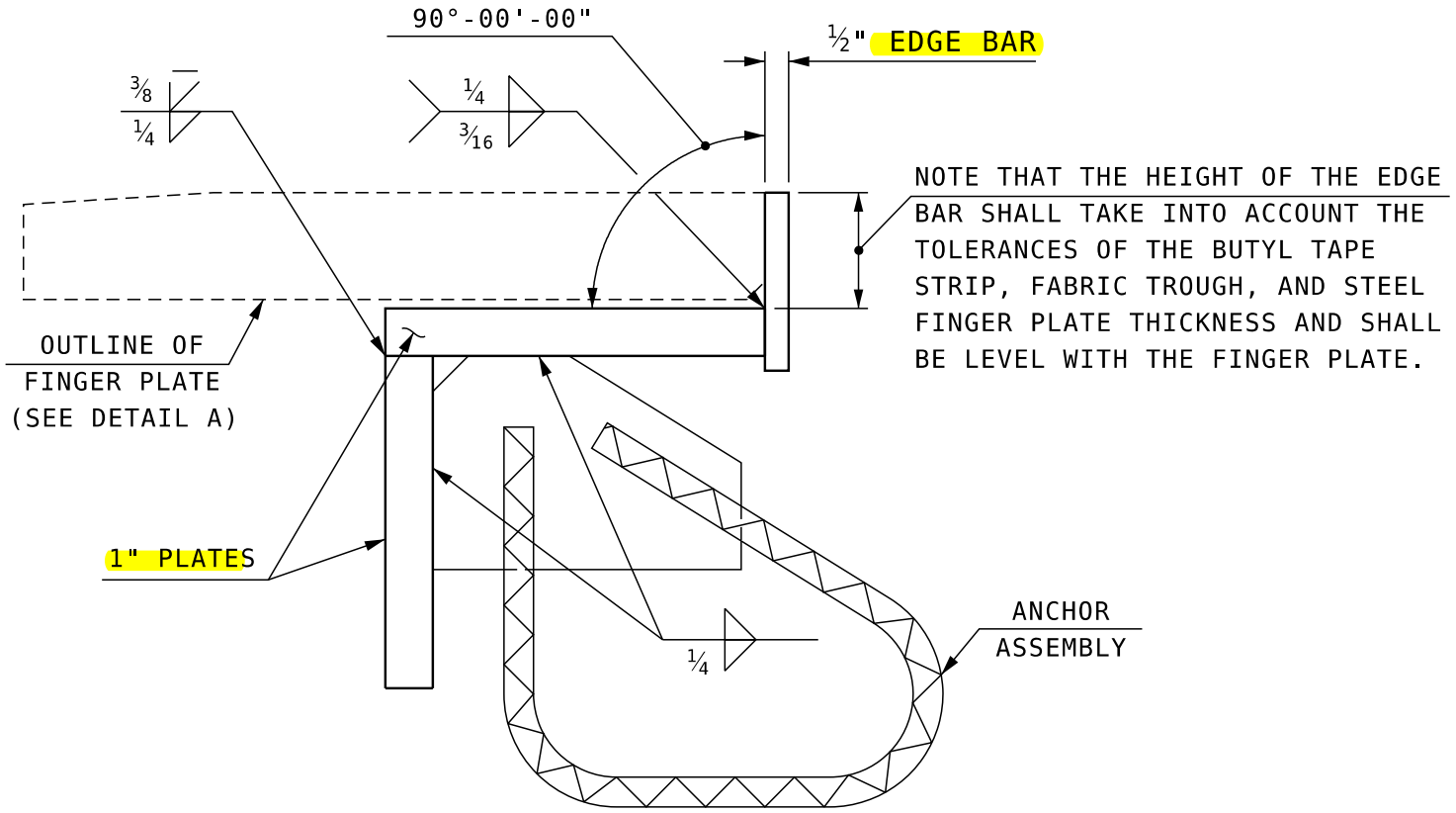


FINGER JOINT EDGE BAR DETAIL (ANGLE)

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - EDGE BAR DETAIL FOR FINGER JOINT (1" PLATES)	7/31/2023



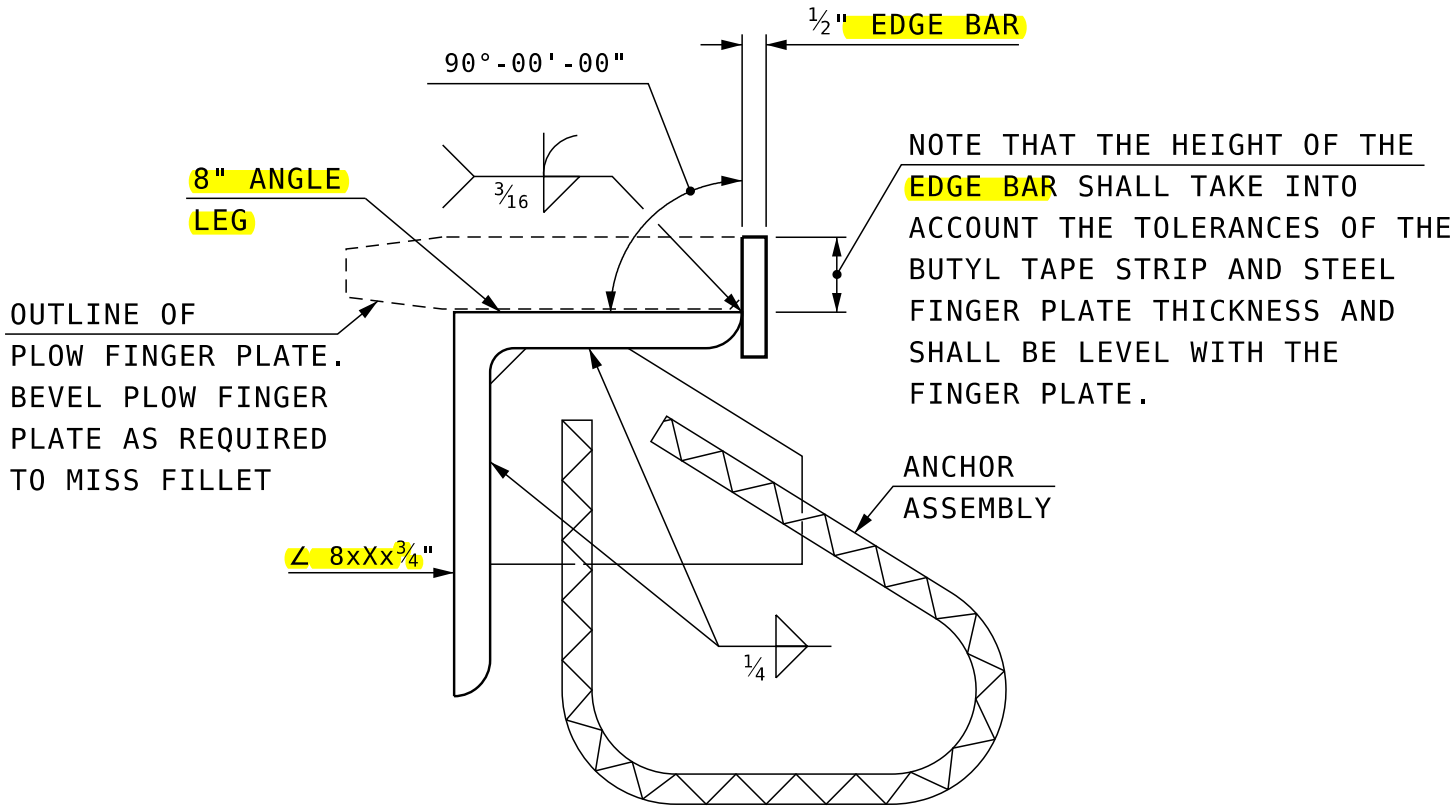
FINGER JOINT

EDGE BAR DETAIL (WELDED PLATES)

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - EDGE BAR DETAIL FOR PLOW PROTECTION PLATE	7/31/2023

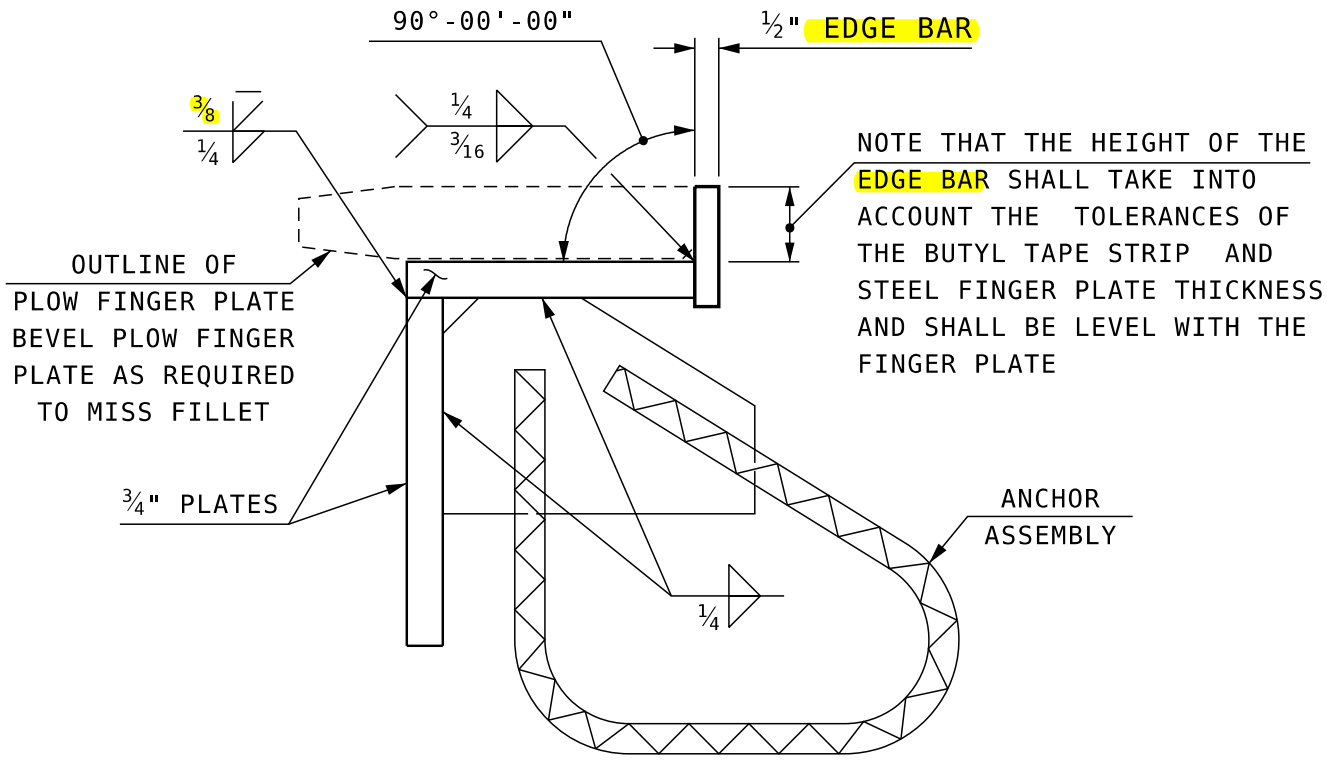


PLOW PROTECTION PLATE
EDGE BAR DETAIL (ANGLE)

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - EDGE BAR DETAIL FOR PLOW PROTECTION PL (¾" PL)	7/31/2023



PLOW PROTECTION PLATE

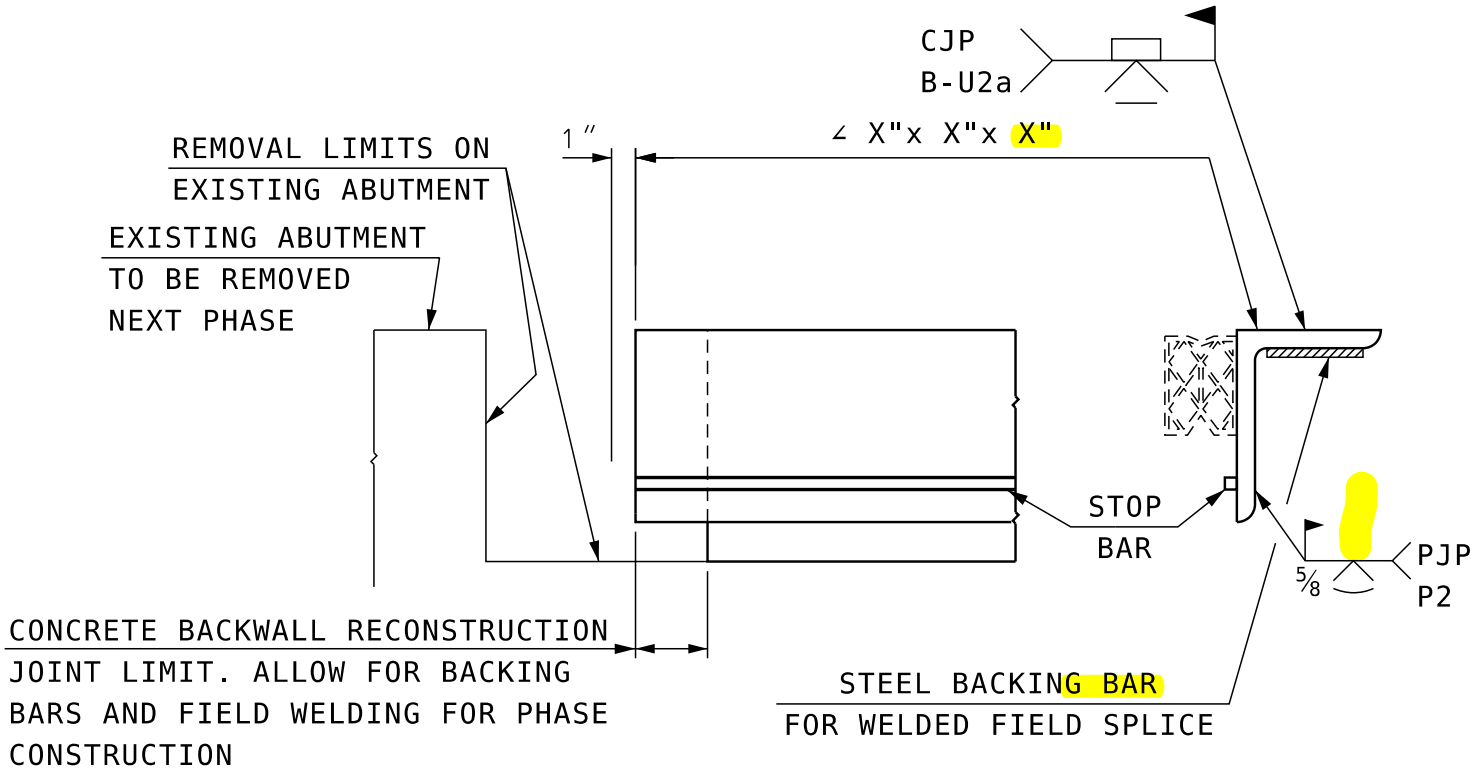
EDGE BAR DETAIL (WELDED PLATES)

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - WELD DETAIL FOR FIELD SPLICE (PHASE CONSTRUCTION) COMPRESSION SEAL	7/31/2023

New Detail



PHASE CONSTRUCTION
FIELD WELD SPLICE DETAILS

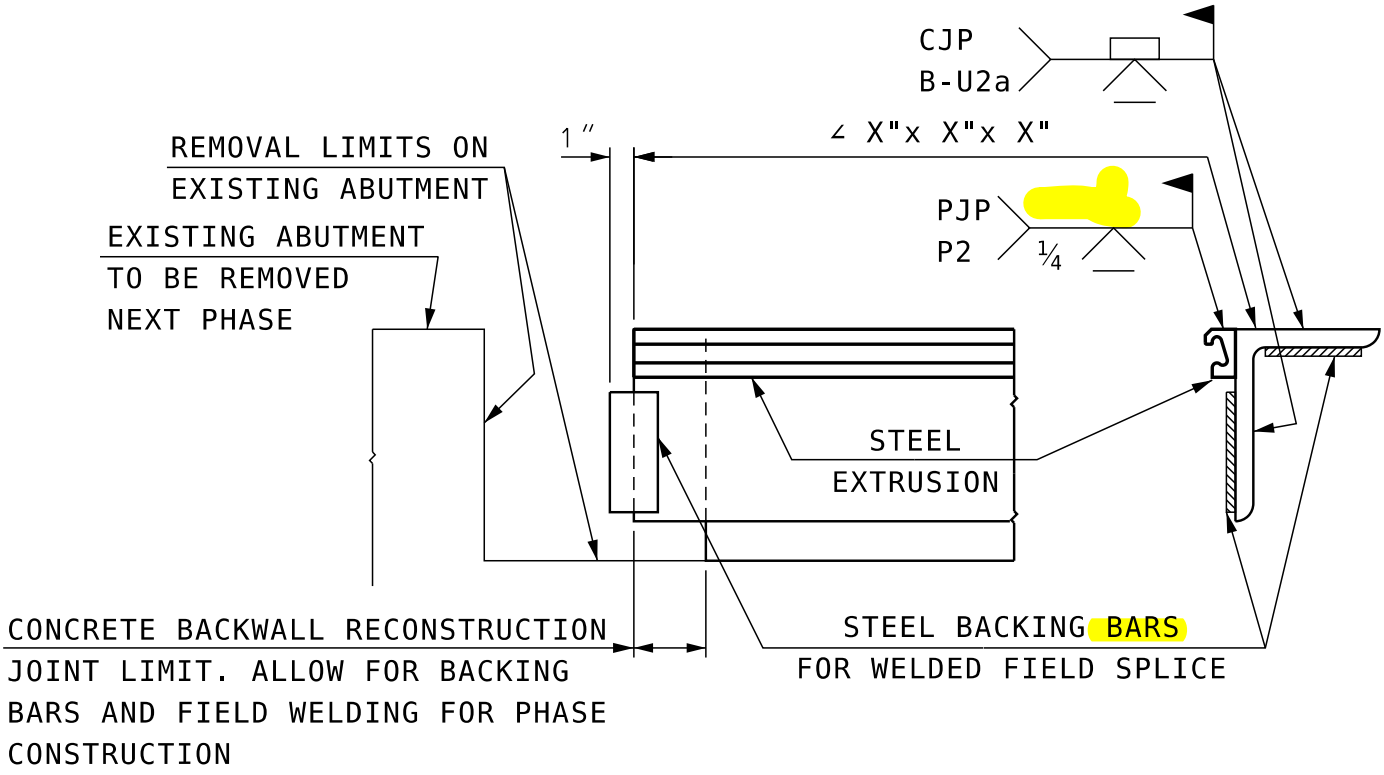
NOT TO SCALE

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - WELD DETAIL FOR FIELD SPLICE (PHASE CONSTRUCTION) STRIP SEAL	7/31/2023



PHASE CONSTRUCTION

FIELD WELD SPLICE DETAILS

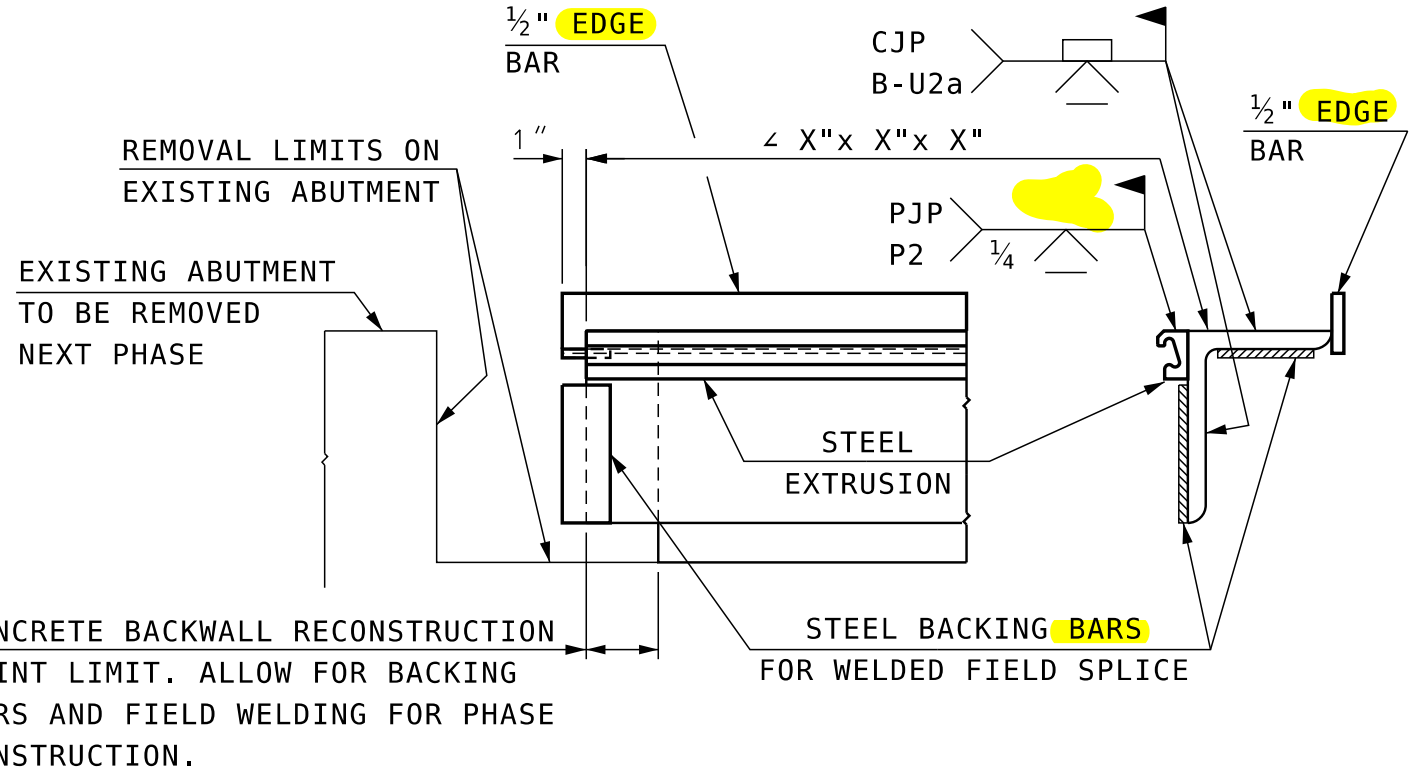
NOT TO SCALE

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - WELD DETAIL FOR FIELD SPLICE (PHASE CONSTRUCTION) PLOW PLATE (FINGER JOINT SIMILAR)	7/31/2023



PHASE CONSTRUCTION

FIELD WELD SPLICE DETAILS

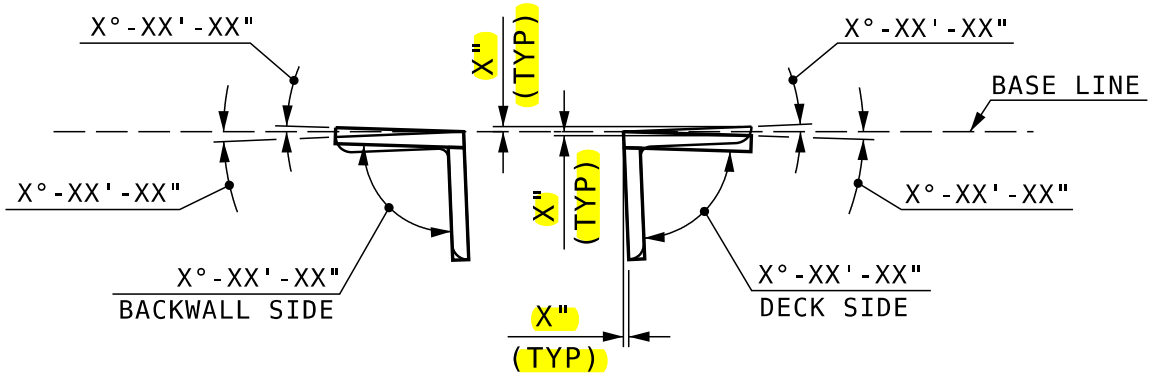
NOT TO SCALE

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINTS - PLATE/ANGLE CONNECTION - DETAIL	7/31/2023



PLATE/ANGLE CONNECTION DETAIL

MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

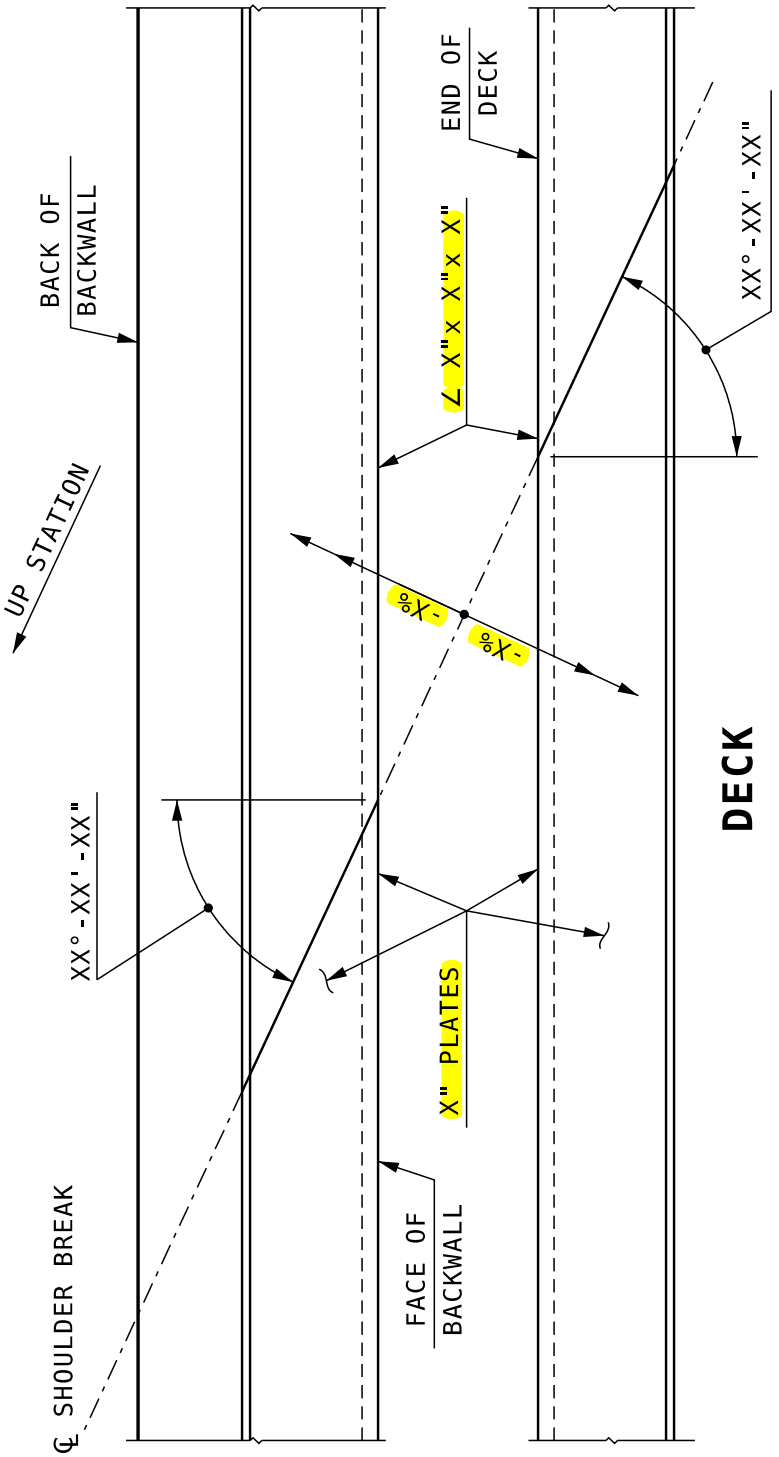
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

EXPANSION JOINTS -
PLATE/ANGLE CONNECTION - PLAN

DATE REVISED:

7/31/2023



PLATE/ANGLE CONNECTION PLAN

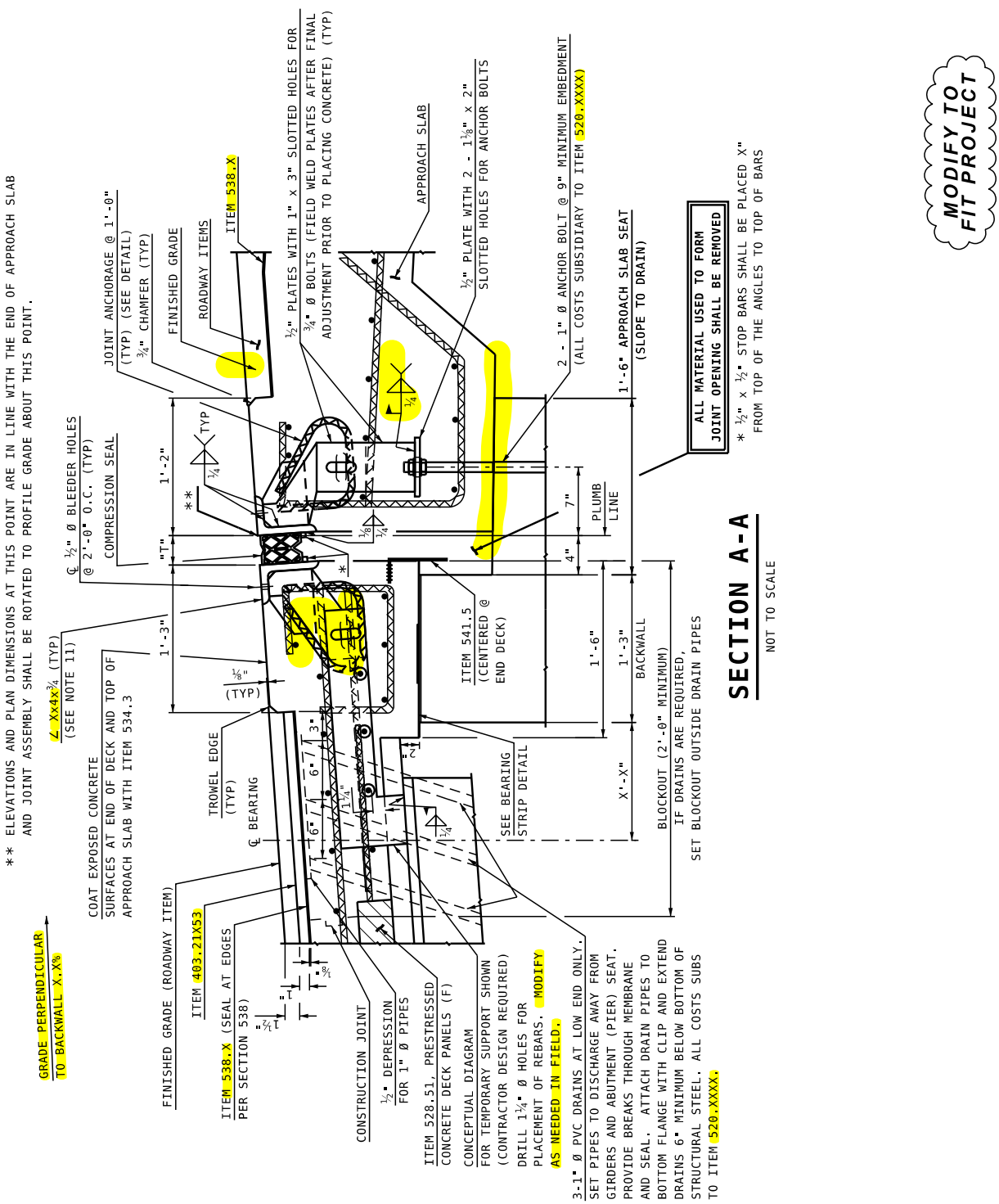
MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION: EXPANSION JOINT WITH PROFILE PERPENDICULAR TO BACKWALL - COMPRESSION SEAL - NEW CONSTRUCTION WITH PANEL

DATE REVISED: 7/31/2023

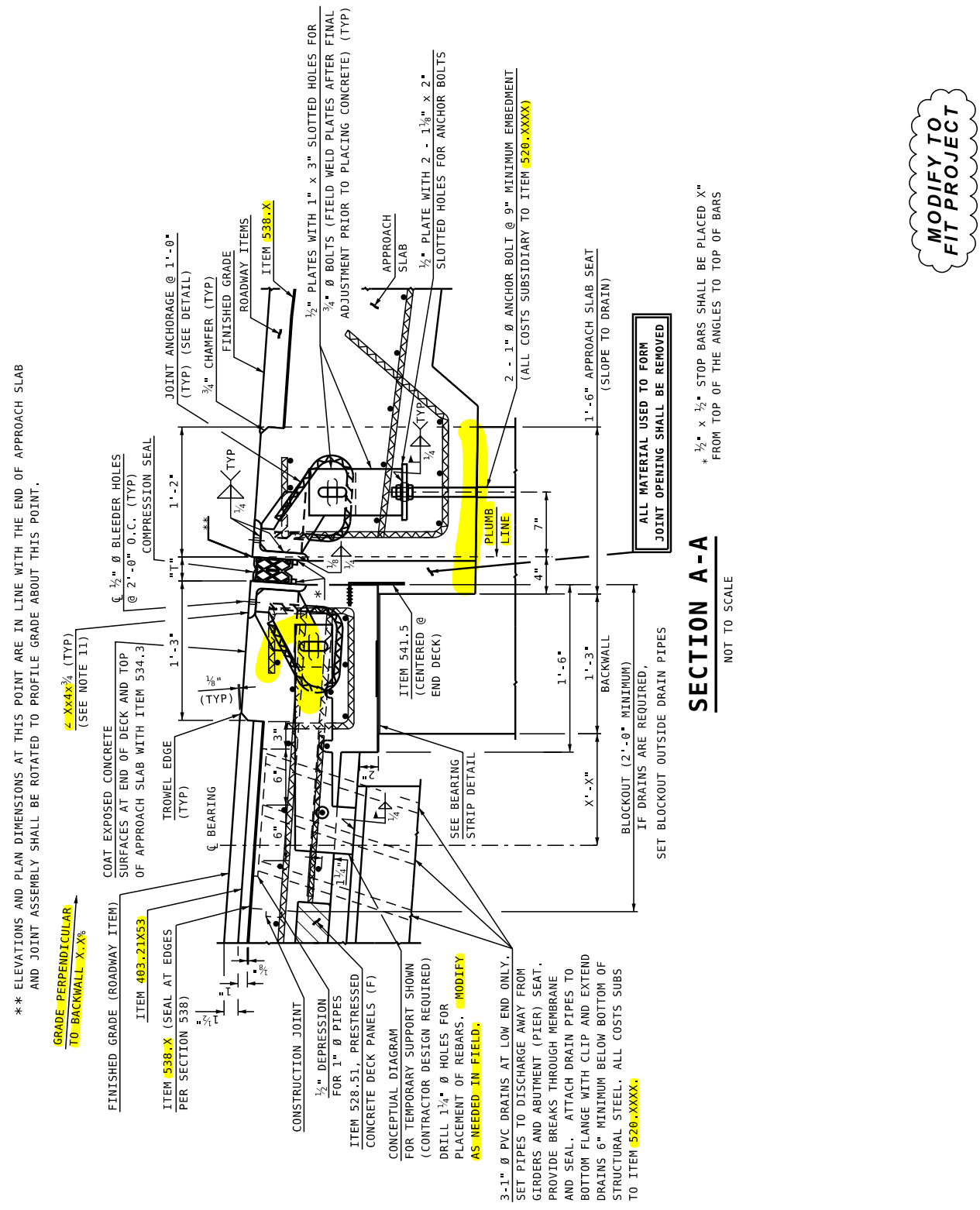


NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION: EXPANSION JOINT WITH PROFILE PERPENDICULAR TO BACKWALL - COMPRESSION SEAL - NEW CONSTRUCTION WITH PANEL

DATE REVISED: 7/31/2023

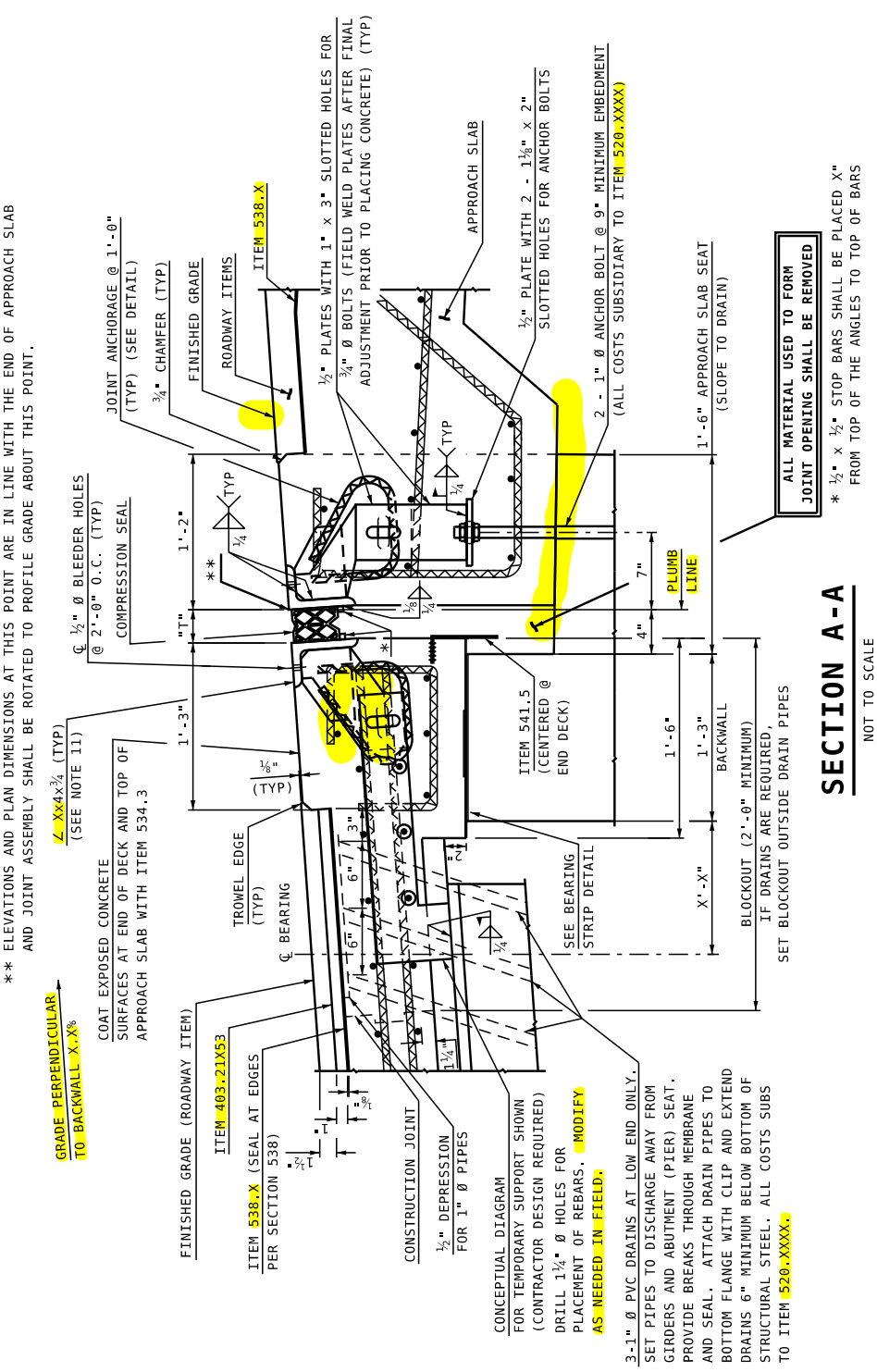


NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION: **EXPANSION JOINT WITH PROFILE PERPENDICULAR TO BACKWALL - COMPRESSION SEAL - NEW CONSTR. CIP**

DATE REVISED: 7/31/2023

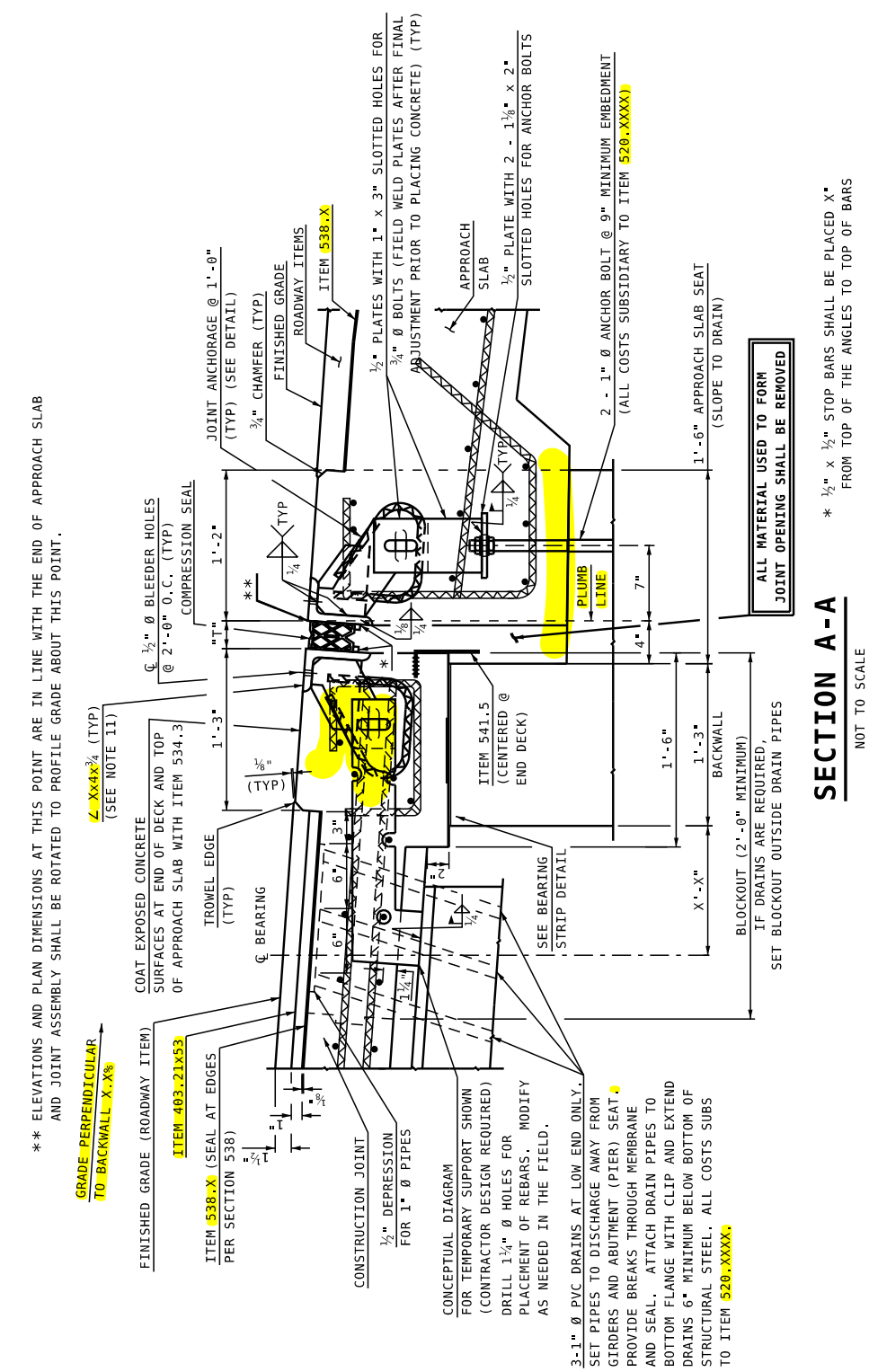


NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION: **EXPANSION JOINT WITH PROFILE PERPENDICULAR TO BACKWALL - COMPRESSION SEAL - NEW CONSTR. CIP**

DATE REVISED: 7/31/2023



NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

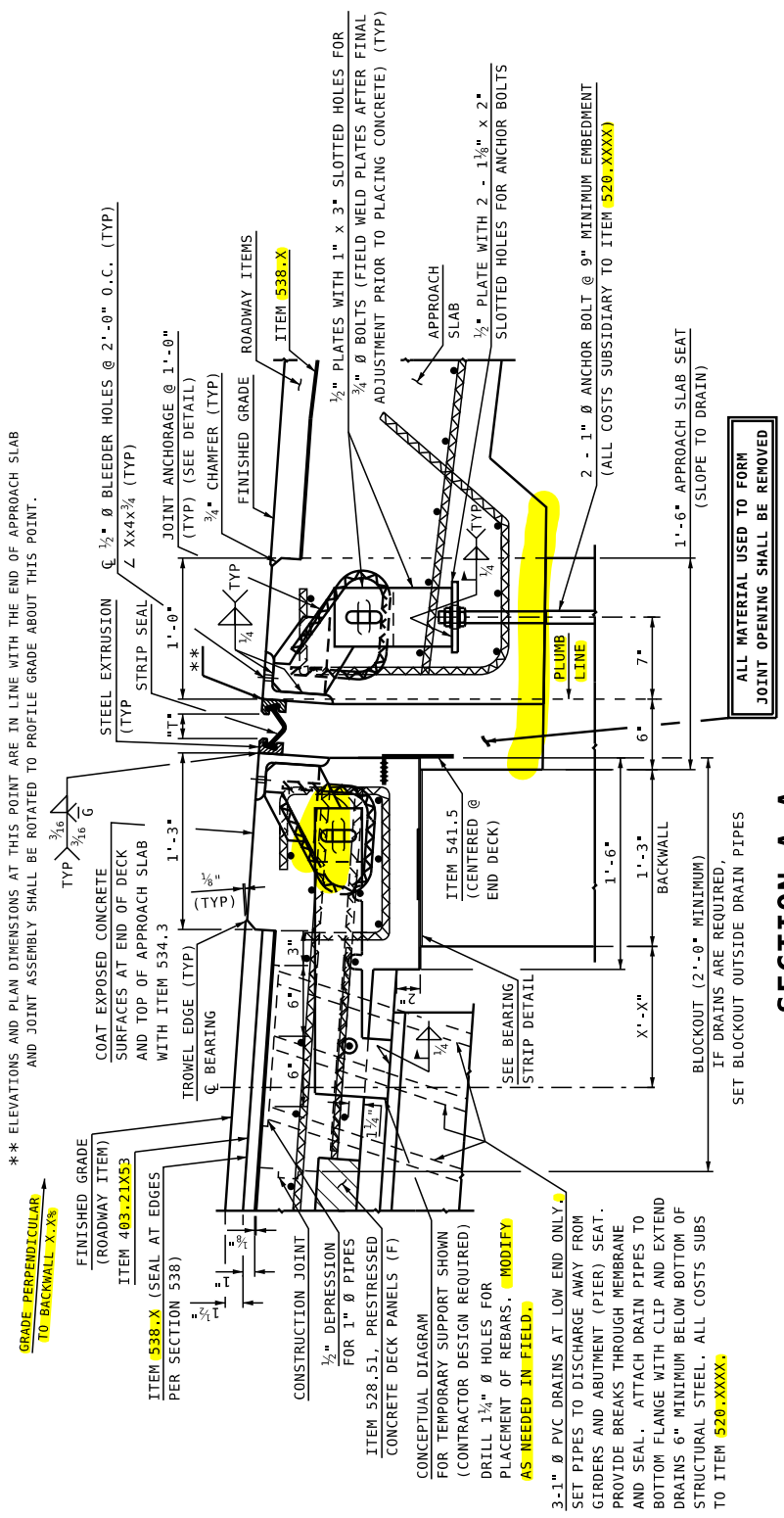
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

EXPANSION JOINT ALONG PROFILE - STRIP SEAL - NEW CONSTRUCTION WITH PANEL

DATE REVISED:

7/31/2023



MODIFY TO FIT PROJECT

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

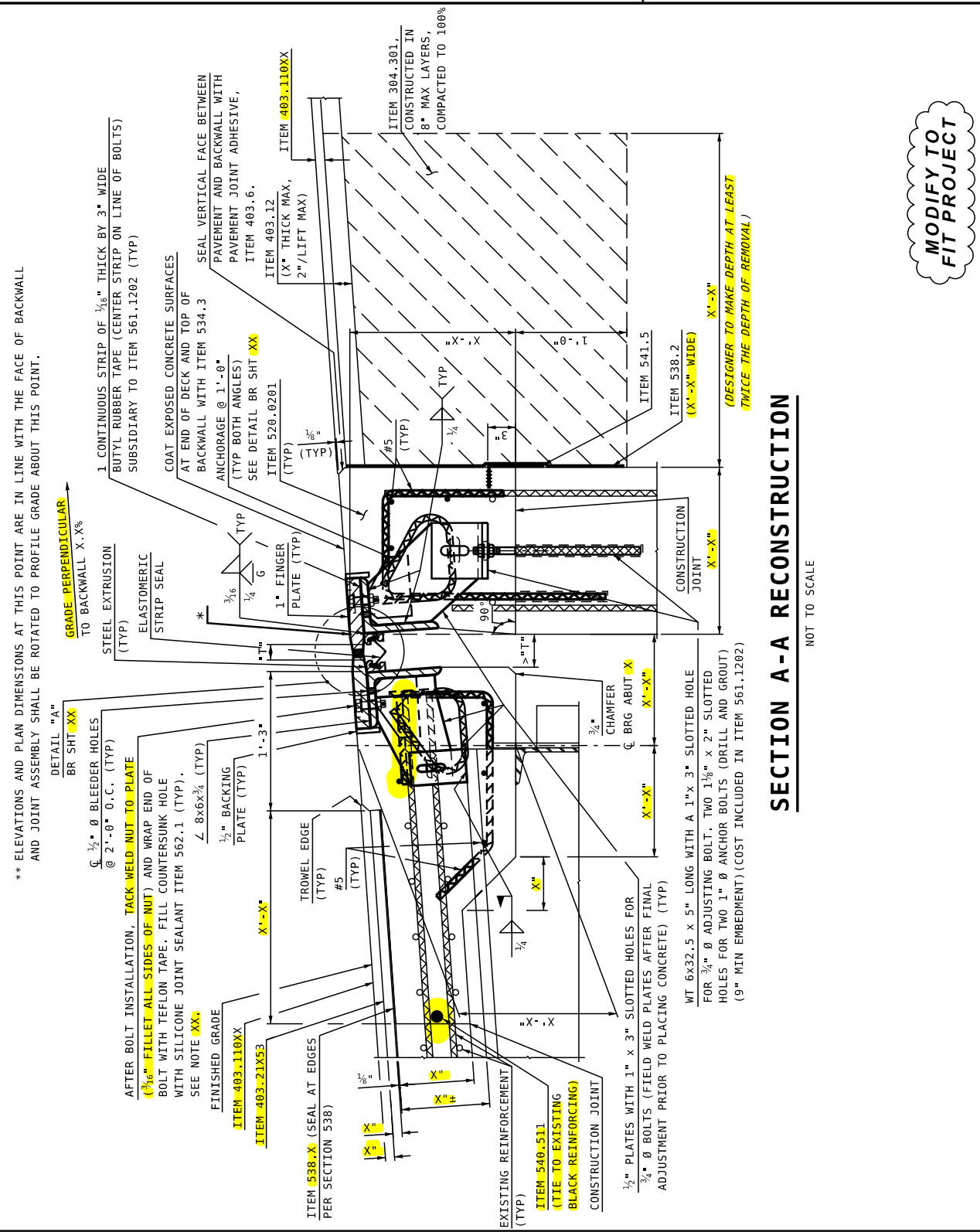
BUREAU OF BRIDGE DESIGN

DESCRIPTION:

EXPANSION JOINT WITH PROFILE - STRIP SEAL WITH PLOW PLATE - RECONSTRUCTION

DATE REVISED:

7/31/2023



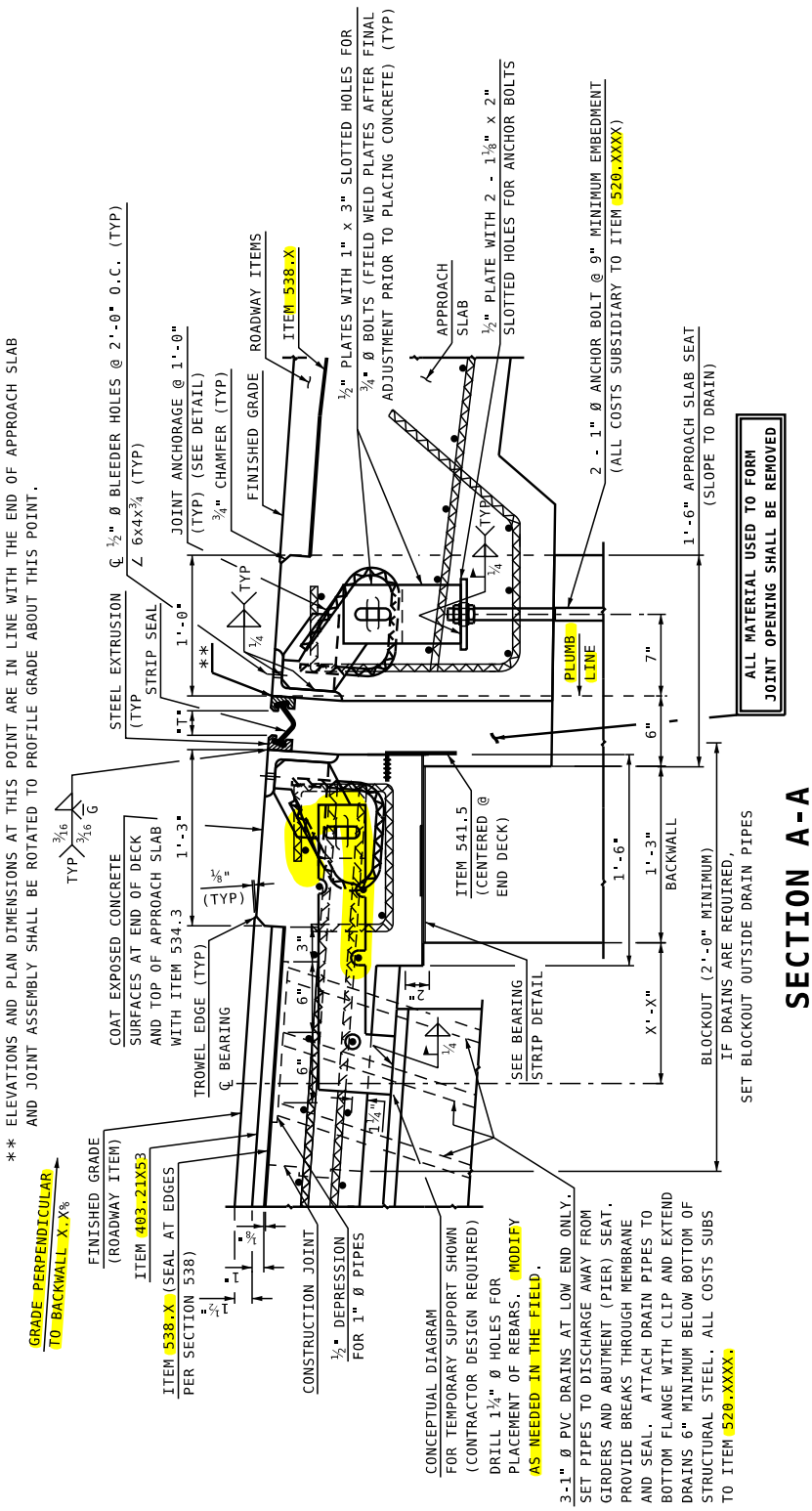
SECTION A-A RECONSTRUCTION

NOT TO SCALE

NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION

BUREAU OF BRIDGE DESIGN

DESCRIPTION:	DATE REVISED:
EXPANSION JOINT WITH PROFILE PERPENDICULAR TO BACKWALL - STRIP SEAL - NEW CONSTR. CIP	7/31/2023



MODIFY TO FIT PROJECT