

			JOIN	IT SELEC	TION TABL	E						
DESCRIPTIO	N OF JOINT	LOCATION:		ABUTMENT NO. 1								
THERMAL M	OVEMENT RA	ANGE:	X INCHES									
PRODUCT		NOMINAL MOVEMENT	MFR. RECOMMENDED MINIMUM DECK JOINT GAP	WIDTH OF SHELF (IN)	MIN. BRIDGE DECK GAP AT 110° F (IN)		DECK AT INS	JOINT GA	AP, "J", DN (IN.)		DEPTH OF SHELF (IN.)	
		CAPACITY	J MIN, AT 110° F (IN)	,	"G" ` ´	40° F	50° F	60° F	70° F	80° F	, ,	
				DECK EXPAN	SION JOINT							
				SKEW	= XX°							
EMSEAL	BEJS XXXX	X.XX"										
WABO-FS	FS-XXX	X.XX"										
SILICOFLEX	SF XXX	X.XX"										
V-SEAL	V-XXX	X.XX"										
		1	F	ARAPET EXPA	NSION JOINT		l					
				SKEW	= XX°							
EMSEAL	BEJS XXXX	X.XX"										
WABO-FS	FS-XXX	X.XX"										
SILICOFLEX	SF XXX	X.XX"										
V-SEAL	V-XXX	X.XX"										
			Si	DEWALK EXP	ANSION JOINT							
				SKEW	= XX°							
EMSEAL	BEJS XXXX	X.XX"										
WABO-FS	FS-XXX	X.XX"										
SILICOFLEX	SF XXX	X.XX"										
V-SEAL	V-XXX	X.XX"										

NOTE: BRIDGE DECK GAP, G = J - 2 * (WIDTH OF SHELF)

			JOIN	IT SELEC	TION TABL	E					
DESCRIPTIO	N OF JOINT	LOCATION:			PIER	NO. 2					
THERMAL M	OVEMENT RA	NGE:	X INCHES								
PROI	DUCT	NOMINAL MOVEMENT	MFR. RECOMMENDED MINIMUM DECK JOINT GAP MINIMUM SHELF (IN)		MIN. BRIDGE DECK GAP AT 110° F (IN)		DECK AT INS	JOINT G TALLATIC	AP, "J", DN (IN.)		DEPTH OF SHELF (IN.)
		CAPACITY DECK JOINT GAP J MIN, AT 110° F (IN)		SHEEL (IN)	"G"	40° F	50° F	60° F	70° F	80° F	
		•		DECK EXPAN	SION JOINT	•		•	•		
				SKEW	= XX°						
EMSEAL	BEJS XXXX	X.XX"									
WABO-FS	FS-XXX	X.XX"									
SILICOFLEX	SF XXX	X.XX"									
V-SEAL	V-XXX	X.XX"									
		•	· ·	PARAPET EXPA	NSION JOINT	•		•	•	•	
				SKEW	= XX°						
EMSEAL	BEJS XXXX	X.XX"									
WABO-FS	FS-XXX	X.XX"									
SILICOFLEX	SF XXX	X.XX"									
V-SEAL	V-XXX	X.XX"									
			S	IDEWALK EXP	ANSION JOINT	•	•	•			
				SKEW	= XX°						
EMSEAL	BEJS XXXX	X.XX"									
WABO-FS	FS-XXX	X.XX"									
SILICOFLEX	SF XXX	X.XX"									
V-SEAL	V-XXX	X.XX"									

NOTE: BRIDGE DECK GAP, G = J - 2 * (WIDTH OF SHELF)

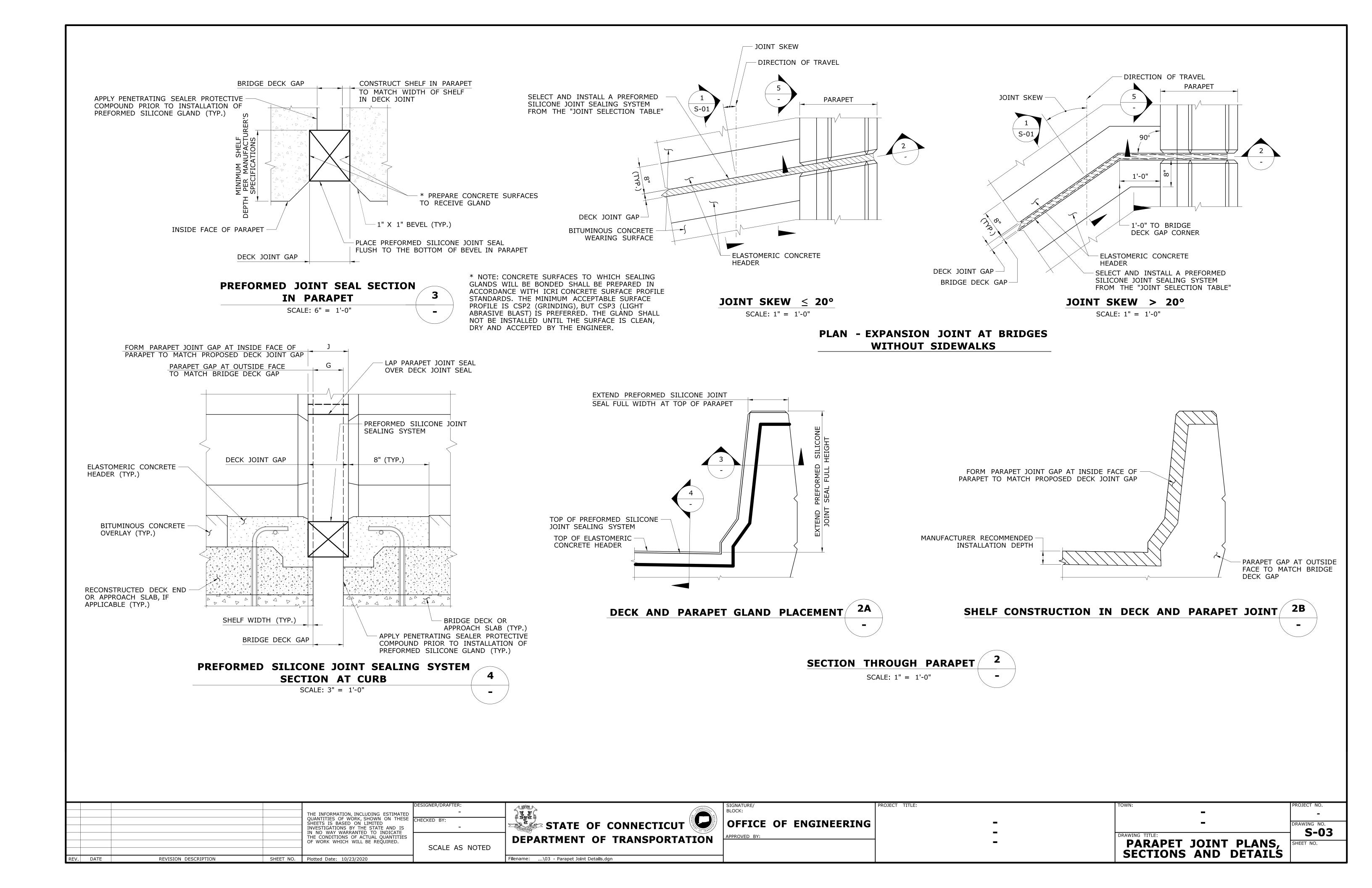
			JOIN	IT SELEC	TION TABL	E					
DESCRIPTION	ON OF JOINT	LOCATION:		PIER NO. 1							
THERMAL M	10VEMENT RA	ANGE:	X INCHES								
PRO	NOMINAL PRODUCT MOVEMENT		MFR. RECOMMENDED MINIMUM DECK JOINT GAP	WIDTH OF SHELF (IN)	MIN. BRIDGE DECK GAP AT 110° F (IN)		DECK AT INS	JOINT GA	AP, "J", DN (IN.)		DEPTH OF SHELF (IN.)
		CAPACITY	J MIN, AT 110° F (IN)	311221 (211)	"G"	40° F	50° F	60° F	70° F	80° F	
				DECK EXPAN	SION JOINT						
				SKEW	= XX°						
EMSEAL	BEJS XXXX	X.XX"									
WABO-FS	FS-XXX	X.XX"									
SILICOFLEX	SF XXX	X.XX"									
V-SEAL	V-XXX	X.XX"									
			F	ARAPET EXPA	NSION JOINT						
				SKEW	= XX°						
EMSEAL	BEJS XXXX	X.XX"									
WABO-FS	FS-XXX	X.XX"									
SILICOFLEX	SF XXX	X.XX"									
V-SEAL	V-XXX	X.XX"									
			S	IDEWALK EXP	ANSION JOINT						
				SKEW	= XX°						
EMSEAL	BEJS XXXX	X.XX"									
WABO-FS	FS-XXX	X.XX"									
SILICOFLEX	SF XXX	X.XX"									
V-SEAL	V-XXX	X.XX"									

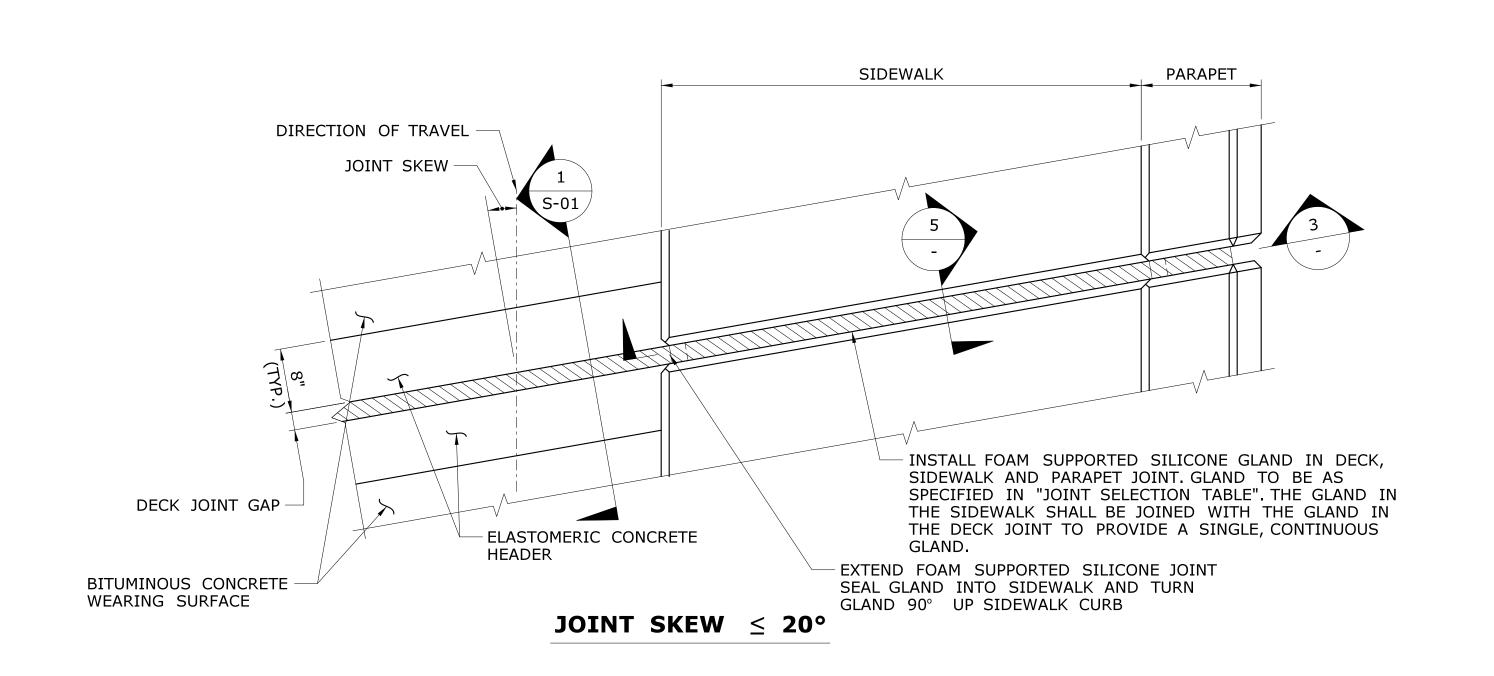
NOTE: BRIDGE DECK GAP, G = J - 2 * (WIDTH OF SHELF)

			JOIN	IT SELEC	TION TABL	E						
DESCRIPTIO	ON OF JOINT	LOCATION:			ABUTME	NT NO. 2)					
THERMAL M	IOVEMENT RA	ANGE:	X INCHES	INCHES								
PROI	NOMINAL PRODUCT MOVEMENT		MFR. RECOMMENDED MINIMUM DECK JOINT GAP SHELF (IN				DECK AT INS	JOINT G.	AP, "J",)N (IN.)		DEPTH OF SHELF (IN.)	
		CAPACITY	J MIN, AT 110° F (IN)	OTTEL (III)	"G"	40° F	50° F	60° F	70° F	80° F		
				DECK EXPAN	SION JOINT							
				SKEW	= XX°							
EMSEAL	BEJS XXXX	X.XX"										
WABO-FS	FS-XXX	X.XX"										
SILICOFLEX	SF XXX	X.XX"										
V-SEAL	V-XXX	X.XX"										
			F	PARAPET EXPA	NSION JOINT							
				SKEW	= XX°						_	
EMSEAL	BEJS XXXX	X.XX"										
WABO-FS	FS-XXX	X.XX"										
SILICOFLEX	SF XXX	X.XX"										
V-SEAL	V-XXX	X.XX"										
			Si	IDEWALK EXP	ANSION JOINT							
		,		SKEW	= XX°							
EMSEAL	BEJS XXXX	X.XX"										
WABO-FS	FS-XXX	X.XX"										
SILICOFLEX	SF XXX	X.XX"										
V-SEAL	V-XXX	X.XX"										

NOTE: BRIDGE DECK GAP, G = J - 2 * (WIDTH OF SHELF)

THE INFORMATION, INCLUDING QUANTITIES OF WORK, SHOWN SHEETS IS BASED ON LIMITED IN NO. WAY WARRANTED TO THE STATE OF THE S	DESIGNER/DRAFTER: ESTIMATED ON THESE CHECKED BY: AND IS DICATE	STATE OF CONNECTICUT	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE:	TOWN:	PROJECT NO. DRAWING NO. S-02
REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 10/23/2020	SCALE AS NOTED	DEPARTMENT OF TRANSPORTATION Filename:\02 - Joint Selection Table.dgn	APPROVED BY:	<u>-</u>	JOINT SELECTION TABLES	SHEET NO.





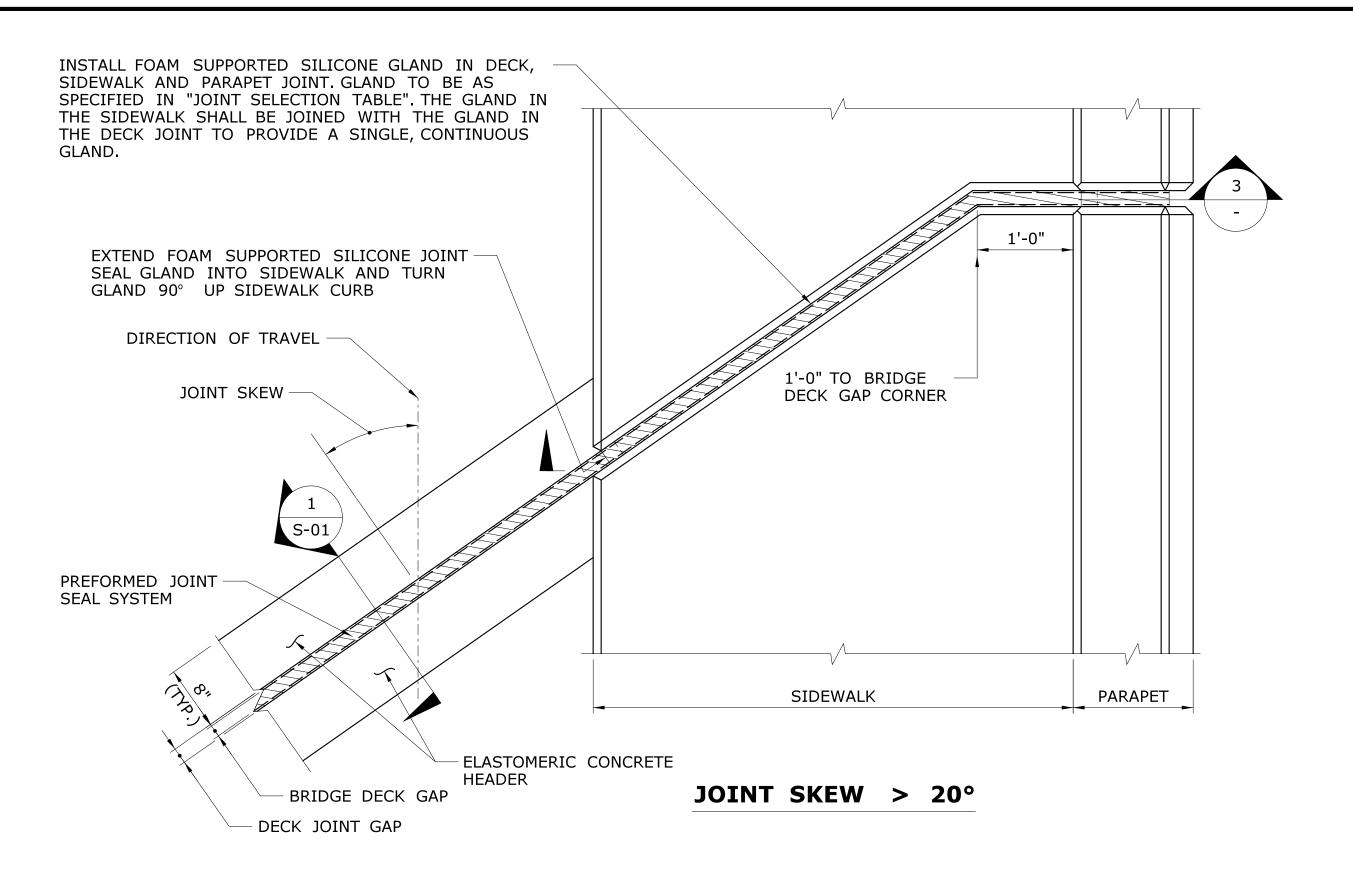
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

SHEET NO. Plotted Date: 10/23/2020

REVISION DESCRIPTION

REV. DATE

SCALE AS NOTED

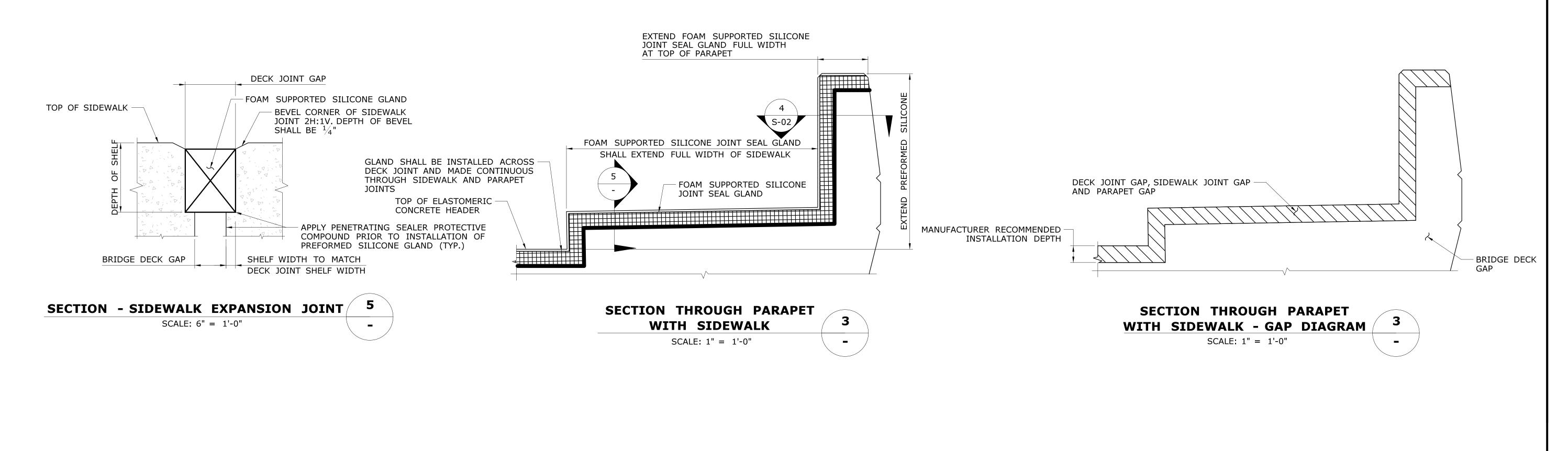


S-04

SIDEWALK JOINT PLANS, SECTIONS AND DETAILS

PLAN - EXPANSION JOINT AT SIDEWALKS

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

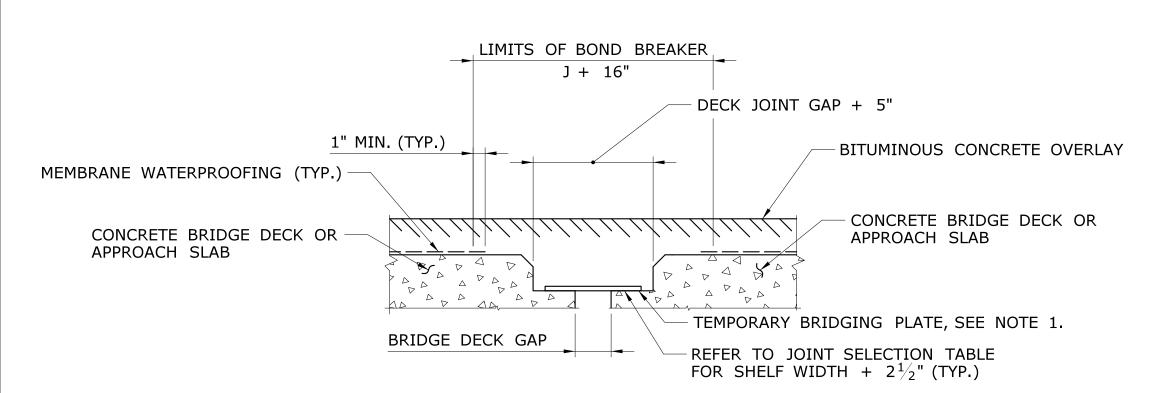


OFFICE OF ENGINEERING

STATE OF CONNECTICUT

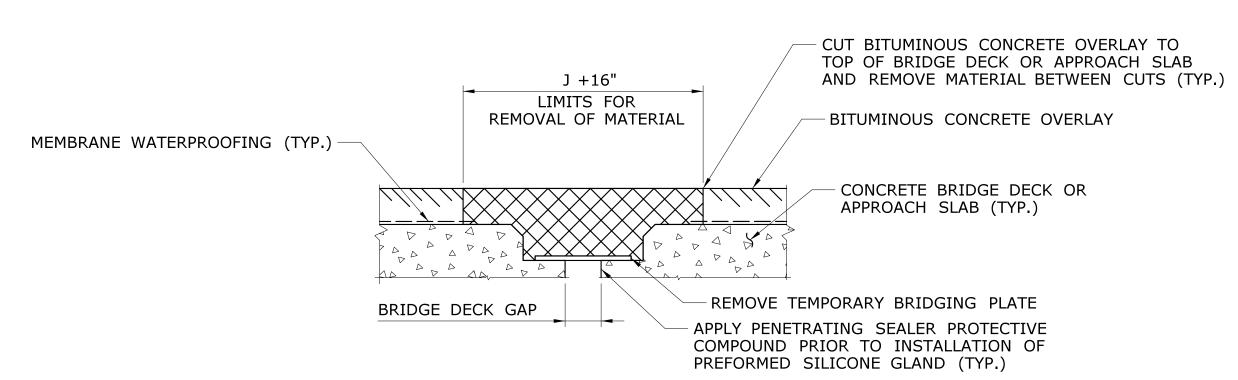
DEPARTMENT OF TRANSPORTATION

Filename: ...\04 - Sidewalk Joint Details.dgn



CONSTRUCT NEW BRIDGE DECK AND SHELF, AND APPLY OVERLAY

NOT TO SCALE



REMOVE OVERLAY FOR CONSTRUCTION OF HEADERS NOT TO SCALE

NEW BRIDGE DECK

NOTES:

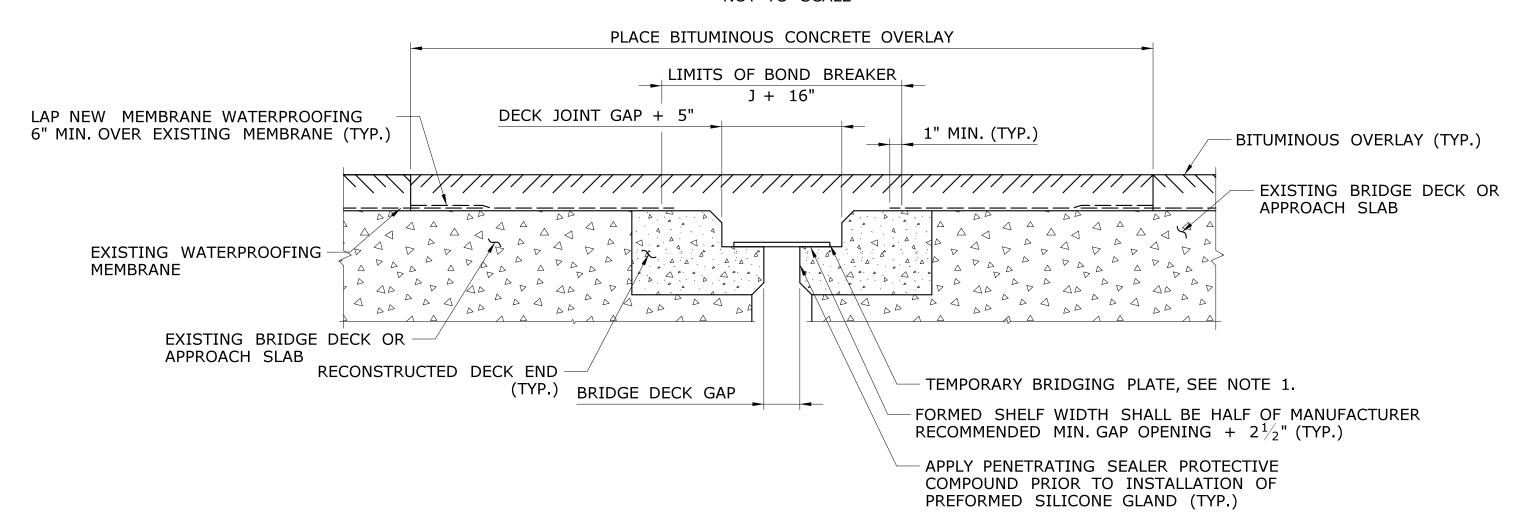
- 1) A TEMPORARY BACKER ROD MAY BE USED IN LIEU OF A TEMPORARY BRIDGING PLATE IF THE BRIDGE DECK GAP WIDTH IS LESS THAN 3 INCHES.
- 2) DETERIORATED CONCRETE SHALL BE REMOVED TO SOUND CONCRETE. SHOULD REINFORCEMENT BE ENCOUNTERED DURING CONCRETE REMOVAL, CONCRETE SHALL BE REMOVED TO A MINIMUM OF 1 INCH BEYOND REINFORCEMENT.

NOTE: FOR DETAIL OF COMPLETED HEADERS AND PREFORMED JOINT SEAL, SEE SECTION-1 ON S-01.

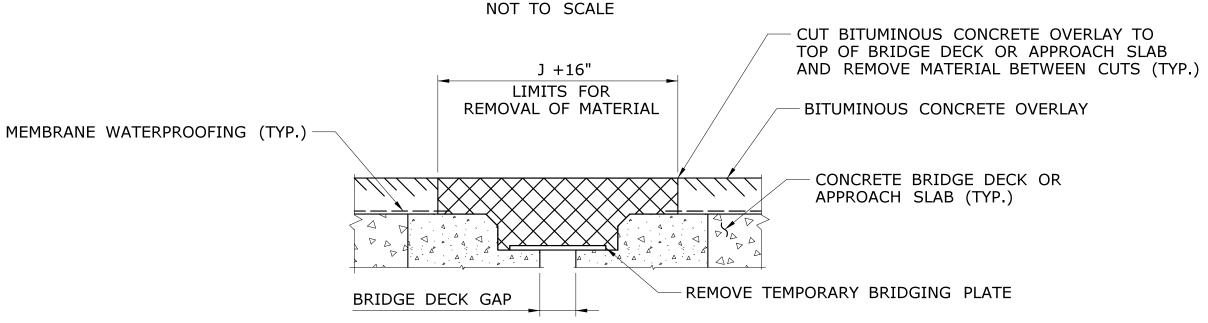
REMOVE CONCRETE AT THE DECK END TO THE HORIZONTAL LIMITS SHOWN, SHOULD DETERIORATED CONCRETE BE PRESENT BEYOND THESE LIMITS. REMOVE 3'-0"± (TYP.) ADDITIONAL CONCRETE AS DIRECTED BY THE ENGINEER. REMOVE EXISTING OVERLAY AND JOINT MATERIAL (TYP.) 1" MIN REMOVE EXISTING WATERPROOFING MEMBRANE 6"± BITUMINOUS CONCRETE OVERLAY (TYP.) (TYP.) 1" DEEP SAW CUT (TYP.). LOCATE REINFORCEMENT BEFORE SAWCUTTING **EXISTING WATERPROOFING** MEMBRANE -REMOVE AND REPLACE TRANSVERSE CONCRETE BRIDGE DECK OR BRIDGE DECK GAP BARS WITH #5 GFRP BARS (TYP.) APPROACH SLAB (TYP.) REMOVE CONCRETE TO A MINIMUM DEPTH OF 1" -CUT REINFORCEMENT AS NECESSARY TO MAINTAIN 2" COVER. BELOW BOTTOM MAT OF DECK. SHOULD CONCRETE COAT CUT END WITH ZINC-BASED PRIMER. (TYP.) BE DETERIORATED AT THIS DEPTH, REMOVAL SHALL PROCEED TO SOUND CONCRETE.

REMOVE OVERLAY AND CONCRETE AT DECK END

NOT TO SCALE



RECONSTRUCT DECK END AND RESTORE OVERLAY



REMOVE OVERLAY FOR CONSTRUCTION OF HEADERS

NOT TO SCALE

RECONSTRUCTED BRIDGE DECK END

PROPOSED SEQUENCE FOR DECK PREPARATION FOR INSTALLATION OF ELASTOMERIC CONCRETE HEADERS AND PREFORMED JOINT SEAL

	IDECICNED/DRAFTED.		L CYCNATURE/	I DROJECT TITLE.	I TOWN.
	DESIGNER/DRAFTER:	COMNECTICAL	SIGNATURE/	PROJECT TITLE:	TOWN:
	THE INFORMATION, INCLUDING ESTIMATED		DEOCK.		-
	QUANTITIES OF WORK, SHOWN ON THESE CHECKED BY:	STATE OF CONNECTICUT	OFFICE OF ENGINEERING	_	■ DRAWI
	INVESTIGATIONS BY THE STATE AND IS	STATE OF CONNECTICOT	OFFICE OF ENGINEERING	_	DRAWING TITLE:
	THE CONDITIONS OF ACTUAL QUANTITIES	DEPARTMENT OF TRANSPORTATION	APPROVED BY:	_	
	OF WORK WHICH WILL BE REQUIRED.		l	-	DECK END PREPARATION FOR SHEET
	SCALE AS N	טובט			ELASTOMERIC CONCRETE HEADERS
DATE REVISION DESCRIPTION	SHEET NO Plotted Date: 10/23/2020	Filename: \2020-10-23\05 - Sequence dan			ELASIOMERIC CONCRETE HEADERS

PREFORMED SILICONE JOINT SEALING SYSTEM DESIGNER NOTES

- 1) THERMAL MOVEMENT RANGE SHALL BE MEASURED IN THE DIRECTION ALONG WHICH THE BRIDGE EXPANDS AND CONTRACTS. FOR BRIDGES ON A TANGENT ROADWAY ALIGNMENT, THE MOVEMENT IS IN THE DIRECTION OF TRAVEL. FOR BRIDGES ON A CURVE, THE MOVEMENT IS ALONG A CHORD JOINING THE ENDS OF THE SPAN EXPERIENCING MOVEMENT.
- 2) SHOULD THE PARAPET SHAPE DIFFER FROM THE DETAIL PRESENTED, THE DETAIL MAY BE MODIFIED TO BETTER REPRESENT SITE CONDITIONS.
- 3) THE SIDEWALK DETAIL MAY BE MODIFIED TO ACCOMMODATE SAFETY WALKS.
- 4) THE DESIGNER SHALL PROVIDE A JOINT SELECTION TABLE (SEE TEMPLATE) AND COMPLETE THE TABLE FOR EVERY JOINT LOCATION, SHOULD NO SIDEWALK BE PRESENT, ELIMINATE THE PORTION OF THE TABLE.
- 5) THE DESIGNER SHALL SELECT GLANDS FROM THREE MANUFACTURERS, WHERE POSSIBLE, FOR INCLUSION IN THE TABLE. A PROPRIETARY PRODUCT APPROVAL IS REQUIRED WHEN ONLY ONE OR TWO PRODUCTS ARE SPECIFIED.
- 6) THE DESIGNER SHALL SELECT A SHELF WIDTH THAT IS AT LEAST HALF OF THE MANUFACTURER'S RECOMMENDED MINIMUM GAP WIDTH.
- 7) TO ALLOW REPLACEMENT JOINTS TO BE BID COMPETITIVELY, THE DESIGNER SHALL CONSIDER THE MINIMUM SHELF WIDTH THAT SATISFIES MINIMUM REQUIREMENTS FOR ALL PRODUCTS THAT WILL BE BID FOR THE SPECIFIED JOINT.
- 8) THE DESIGNER SHALL ASSUME THAT THE BRIDGE DECK GAP WILL CLOSE COMPLETELY, AND SET THE DECK JOINT GAP AND SHELF WIDTH ACCORDINGLY.
- 9) THE SHELF WIDTH MAY BE INCREASED AT EXISTING DECK ENDS TO ENSURE THAT THE DECK JOINT GAP SATISFIES THE MANUFACTURER'S RECOMMENDED GAP AT INSTALLATION.
- 10) WHEN EXISTING DECK ENDS ARE TO BE RECONSTRUCTED, THE DESIGNER SHALL PROVIDE DETAILS OF HOW THE PARAPET CURB WILL BE RECONSTRUCTED TO ACCOMMODATE THE DECK JOINT. SHOULD THE PARAPET JOINT BE INCOMPATIBLE WITH THE REQUIRED GLAND, THE DESIGNER SHALL PREPARE DETAILS FOR THE RECONSTRUCTION OF THE PARAPET JOINT AS WELL. THE GLAND FOR THE PARAPET JOINT NEED NOT BE THE SAME PRODUCT AS THE DECK JOINT, SO LONG AS IT IS SUITABLE FOR THE GAP AND OVERLAPS THE DECK JOINT GLAND WHERE IT TURNS UP INTO THE PARAPET.
- 11) AASHTO ARTICLE 14.5.3.2 ALLOWS FOR A MAXIMUM 4" ROADWAY SURFACE GAP AAT -10 °F. THE CTDOT WILL ALLOW A 4" GAP AT 20 °F.
- 12) THE $^{1}/_{8}$ " RECESS OF THE HEADER BELOW THE BITUMINOUS OVERLAY IS TO ACCOUNT FOR COMPACTION OF THE FRESH BITUMINOUS OVERLAY UNDER WHEEL LOADS. THIS SHOULD RESULT IN A SMOOTHER RIDING SURFACE OVER THE HEADER.
- 13) DESIGNERS SHALL SPECIFY GLANDS IN SIDEWALK JOINTS TO BE FOAM SUPPORTED SILICONE GLANDS. THE SHAPE AND DENSITY OF THESE GLANDS IS MORE SUITABLE FOR FOOT TRAFFIC AND REDUCE THE TRIPPING HAZARD. SINCE THERE IS NO ACCEPTABLE TRANSITION FROM A V-SHAPED GLAND IN A BRIDGE DECK JOINT TO FOAM SUPPORTED SILICONE GLANDS IN A SIDEWALK JOINT, DESIGNERS SHALL ALSO SPECIFY FOAM SUPPORTED SILICONE GLANDS IN BRIDGE DECK JOINTS FOR BRIDGES WITH A SIDEWALK.
- 14) THE RECESS OF THE FOAM SUPPORTED SILICONE GLAND BELOW THE PARAPET SURFACE IS DIFFERENT THAN AT THE DECK JOINT. THE EDGES OF THE PARAPET JOINT ARE BEVELED 1". THE GLAND SHOULD BE PLACED BELOW THE BEVEL AS DETAILED. SINCE THIS IS A VERTICAL JOINT, IT FUNCTIONS DIFFERENTLY THAN A DECK JOINT.
- 15) THE MINIMUM SHELF WIDTH IS SET AT HALF OF THE MANUFACTURER'S MINIMUM OPENING SIZE TO GUARD AGAINST DECK ENDS CLOSING AND CRUSHING THE GLAND.
- 16) THE BRIDGE DECK GAP, "G", IS ASSUMED TO BE 0" TO ACCOUNT FOR CLOSURE OF THE BRIDGE DECK GAP AND TO MINIMIZE THE DECK JOINT GAP, "J". FOR NEW BRIDGE DECKS, SHOULD ADDITIONAL GAP BE DESIRABLE TO MEET MANUFACTURER'S MINIMUM INSTALLATION GAP, "G" MAY BE INCREASED.
- 17) THE DESIGNER IS RESPONSIBLE FOR VERIFYING THE PRODUCT OF CHOICE CAN ACCOMMODATE THE JOINT OPENINGS AT THE MAXIMUM AND MINIMUM TEMPERATURES AS WELL AS MAXIMUM AND MINIMUM INSTALLATION TEMPERATURES.
- 18) IN GENERAL, A BACKER ROD MAY NOT BE SUBSTITUTED FOR THE SHELF AS SUPPORT FOR THE GLAND. BACKER ROD PLACEMENT IS SUBJECT TO INSTALLER ERROR AND MAY AFFECT THE PROPER PLACEMENT OF THE PREFORMED GLAND. THIS MAY LEAD TO REDUCED LONGEVITY OR PREMATURE FAILURE OF THE GLAND.
- 19) THE DESIGN IS RESPONSIBLE TO INVESTIGATE EXISTING PARAPETS FOR ADEQUATE GAP WIDTH TO PREVENT CRUSHING. FULL PARAPET END RECONSTRUCTION MAY BE REQUIRED TO PROVIDE AN ADEQUATE OPENING.
- 20) IF EXISTING DECK GAP IS INADEQUATE AND MAY CAUSE CRUSHING OF DECK ENDS, THE DESIGNER SHOULD CONSIDER RECONSTRUCTION OF ENTIRE DECK END.

THESE NOTES ARE NOT INTENDED TO BE PLACED ON THE CONTRACT PLANS.

			DESIGNER/DRAFTER:		SIGNATURE/	PROJECT TITLE:	TOWN:	PROJECT NO.
		THE INFORMATION, INCLUDING ESTIMATED	-		BLOCK:		=	-
		QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED	CHECKED BY:	STATE OF CONNECTICUT	OFFICE OF ENGINEERING	_	-	DRAWING NO.
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		THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DEPARTMENT OF TRANSPORTATION	APPROVED BY:	-	- 10 MILLON - 11 - 12 - 12 - 12 - 12 - 12 - 12 - 1	CHEET NO
		Or Work Which Will be Regards.	SCALE AS NOTED				NOTES TO	SHEET NO.
?F\/	DATE REVISION DESCRIPTION SHEET NO	Plotted Date: 10/23/2020	-	Filename: \XX - Designer Notes dan			DESIGNERS	