

# STEEL SHAPE TYPES

MANUFACTURER	ITEM NAME	BRIDGE DECK			TRAFFIC BARRIERS					
		TYPE	S	T	TYPE	V	W	TYPE	X	Y
D. S. BROWN	DSB STRIP SEAL	SSCM2	1 1/4"	3 3/4"	SSA2 <4>	1 1/4"	2"	SSE2M <4>	1"	1 1/2"
WATSON BOWMAN ACME	WABO STRIP SEAL	R	1 1/4"	3 1/4"	A	1 1/4"	2"	E	1 1/2"	1 1/2"
R.J. WATSON, INC.	RJ STRIP SEAL	RJM	2 3/4"	3 1/4"	RJA	1 1/4"	2"	RJE	1 1/4"	1 1/2"

## 2" MOTION RANGE

** GROUP	MANUFACTURER	ITEM NAME	OPENING "G" NORMAL TO JT.		MIN. INSTALLATION WIDTH NORMAL TO JOINT	OPENING "G" NORMAL TO JT.		
			MIN.	MAX.		@40°F	@64°F	@80°F
1	D. S. BROWN	A2R-400 OR E2M-SEAL <5>	1/2"	4 1/2"	2"			
2	WATSON BOWMAN ACME	WABO STRIP SEAL SE-300	0"	3"	1 1/2"			
2	R.J. WATSON, INC.	R.J. STRIP SEAL 200	0"	2"	1 1/2"			

## 3" MOTION RANGE

** GROUP	MANUFACTURER	ITEM NAME	OPENING "G" NORMAL TO JT.		MIN. INSTALLATION WIDTH NORMAL TO JOINT	OPENING "G" NORMAL TO JT.		
			MIN.	MAX.		@40°F	@64°F	@80°F
1	D. S. BROWN	A2R-400 OR E2M-SEAL <5>	1/2"	4 1/2"	2"			
2	WATSON BOWMAN ACME	WABO STRIP SEAL SE-300	0"	3"	1 1/2"			
2	R.J. WATSON, INC.	R.J. STRIP SEAL 300	0"	3"	1 1/2"			

## 4" MOTION RANGE

** GROUP	MANUFACTURER	ITEM NAME	OPENING "G" NORMAL TO JT.		MIN. INSTALLATION WIDTH NORMAL TO JOINT	OPENING "G" NORMAL TO JT.		
			MIN.	MAX.		@40°F	@64°F	@80°F
1	D. S. BROWN	A2R-400 OR E2M-SEAL <5>	1/2"	4 1/2"	2"			
2	WATSON BOWMAN ACME	WABO STRIP SEAL SE-400	0"	4"	1 1/2"			
2	R.J. WATSON, INC.	R.J. STRIP SEAL 400	0"	4"	1 1/2"			

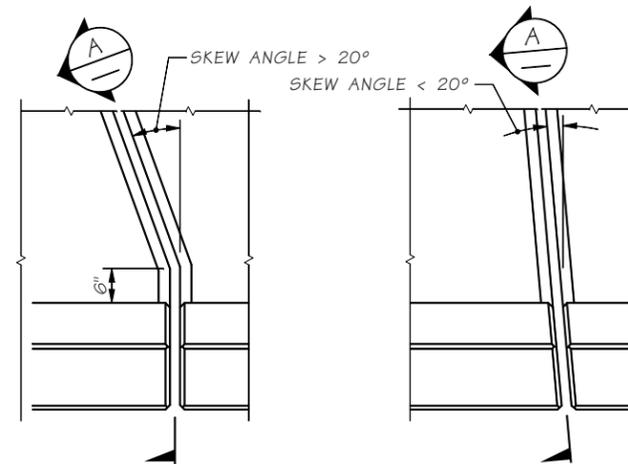
## 5" MOTION RANGE

** GROUP	MANUFACTURER	ITEM NAME	OPENING "G" NORMAL TO JT.		MIN. INSTALLATION WIDTH NORMAL TO JOINT	OPENING "G" NORMAL TO JT.		
			MIN.	MAX.		@40°F	@64°F	@80°F
1	D. S. BROWN	DSB STRIP SEAL A2R-XTRA <6>	1/2"	5 1/2"	2"			
2	WATSON BOWMAN ACME	WABO STRIP SEAL SE-500	0"	5"	1 1/2"			
1	R.J. WATSON, INC.	R.J. STRIP SEAL 500	1/2"	5"	1 1/2"			

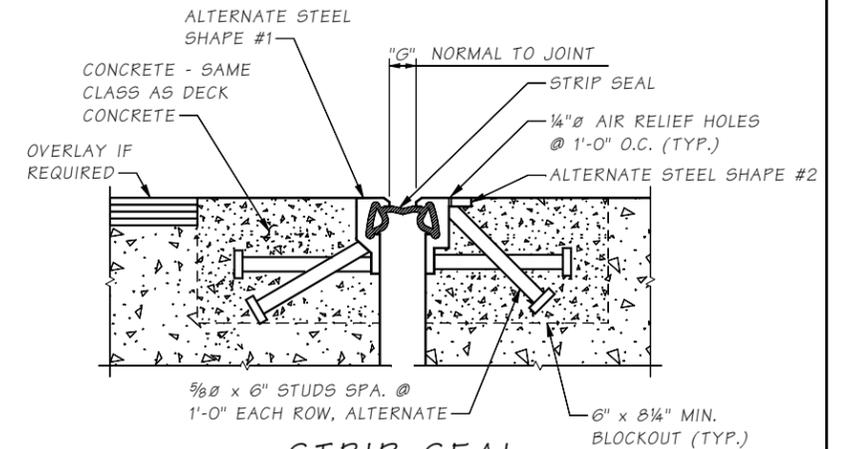
\*\* GROUP COLUMN NOT TO BE SHOWN IN CONTRACT PLANS. FOR DESIGN PURPOSES ONLY.

NOTE: DESIGNER TO USE APPROPRIATE DETAILS FROM THIS SHEET AND CONSULT WITH EXPANSION JOINT SPECIALIST FOR LATEST PLAN SHEET LAYOUT, NOTES, AND UP-TO-DATE DETAILS.

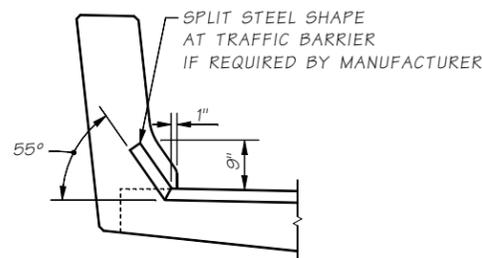
PAGE SHOULD BE REORGANIZED ACCORDINGLY AFTER ANY DETAILS OR TABLES ARE REMOVED. PAGE SHOULD BE FORMATTED AND VIEWS ALIGNED IN ACCORDANCE WITH CAD STANDARDS AND PRACTICES.



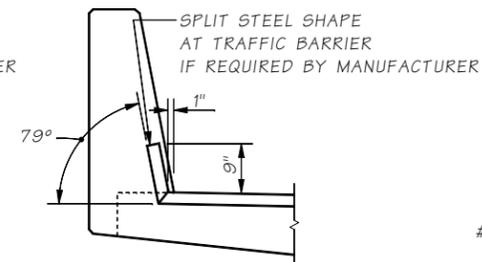
PLAN EXPANSION JOINT



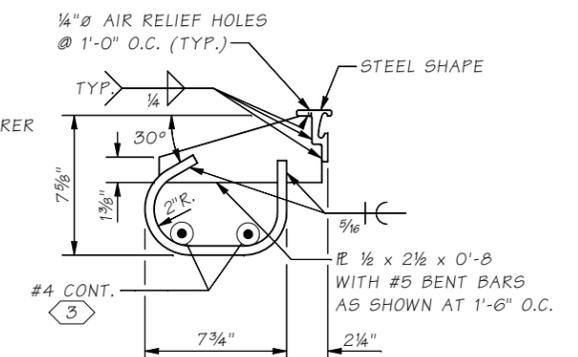
STRIP SEAL STANDARD ANCHORAGE <1>



SECTION A FOR STRIP SEAL "F" SHAPE BARRIER



SECTION A FOR STRIP SEAL SINGLE SLOPE BARRIER



STRIP SEAL SPECIAL ANCHORAGE <2>

### NOTES:

REMOVE NOTE <6> IF 5" MOTION RANGE TABLE IS NOT USED.

### STRIP SEAL DESIGN NOTES:

- DESIGNER SHALL INCLUDE APPROPRIATE DETAILS AND TABLES IN THE PLANS.
- SEE BDM SECTION 9.1.4B AND DESIGN EXAMPLE FOR STRIP SEAL DESIGN AND FOR DETERMINING OPENING "G" NORMAL TO THE JOINT. FILL IN AMOUNTS CALCULATED AND STEEL SHAPES SELECTED.
- FOR SKEW ANGLE GREATER THAN 30° SEE JOINT SPECIALIST.
- SEE JOINT SPECIALIST PRIOR TO SPECIFYING A 5" MOTION RANGE STRIP SEAL.
- A GROUP 1 STRIP SEAL DOES NOT ALLOW FULL CLOSURE OF STEEL SHAPES. A GROUP 2 STRIP SEAL ALLOWS FULL CLOSURE OF STEEL SHAPES.
- DO NOT USE STEEL SHAPES WITH HORIZONTAL LEGS IN CURB OR BARRIER REGION.

- USE FOR NORMAL TRAFFIC VOLUME EXTEND SLAB STEEL INTO THE BLOCKOUT
- USE FOR HIGH TRAFFIC VOLUME REQUIRES 9" x 1'-0" MIN. BLOCKOUT EXTEND SLAB STEEL INTO THE BLOCKOUT EXTEND BLOCKOUT TO EDGE OF DECK
- PLACED AFTER EXPANSION JOINT IS IN POSITION. THREAD INTO PLACE FROM THE ENDS.
- ALTERNATIVELY, TRIM VERTICAL LEG OF SSCM2 SHAPE FOR USE IN TRAFFIC BARRIER
- USE E2M-SEAL WITH SSE2M SHAPE ONLY
- NO SEAL AVAILABLE FOR SSE2M SHAPE

Bridge Design Engr.	M:\STANDARDS\Expansion Joints\STRIP SEAL DETAILS.MAN					REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor						10	WASH.			
Designed By						JOB NUMBER				
Checked By										
Detailed By										
Bridge Projects Engr.										
Prelim. Plan By										
Architect/Specialist	DATE	REVISION	BY	APPD						

Tue Jun 30 14:34:13 2020

BRIDGE AND STRUCTURES OFFICE



EXPANSION JOINTS

EXPANSION JOINT DETAILS STRIP SEAL

BRIDGE SHEET NO.
SHEET
OF
SHEETS

LAST UPDATED: 06/30/2020

SHEET NO. 9.1-A2-1