



4 Inverness Court East
 Suite 250
 Englewood, CO 80112
 Office: (303) 770-7878
 Fax: (303) 770-7667

LETTER OF TRANSMITTAL

TO: Steamboat Structures
Denver Metro, CO

DATE: 10/5/2021

FILE NO. 009-03

ATTN: Heather Reed

RE: Forest Lakes Bridges

WE ARE SENDING YOU:

- Shop Drawings
- Specifications
- Plans
- Copy of Letter
- Reports
- Submittal Information
- Samples
- _____

SUBMITTED BY: Structures

COPIES	DESCRIPTION	CONTRACTOR
1	Expansion Device Shop Drawings	Structures

THESE ARE TRANSMITTED:

- For Approval
- For Your Use
- As Requested
- For Review and Comment
- Approved As Submitted
- Approved As Noted
- Returned for Corrections
- _____

REMARKS:

cc: File



Letter of Transmittal

To: Structures Inc.

Date: 10/05/2021

Attn: Elliott

RE: Forest Lakes Bridges

Attached ___ Separate Cover Via _____

Shop Drawing ___ Prints ___ Samples ___ Specifications
 ___ Letter ___ Change Order Other _____

Copies	Date	Description
(1)	10-05-21	Forest Lakes Bridges 0-4" Expansion Joint and cover plates

The above items are transmitted for your action as noted:

___ For Approval For Your Use
 ___ Resubmitted for Approval ___ As Requested
 ___ Approved as Submitted ___ Approved as Noted
 ___ Resubmit ___ Copies for Approval ___ For Distribution

Comments:

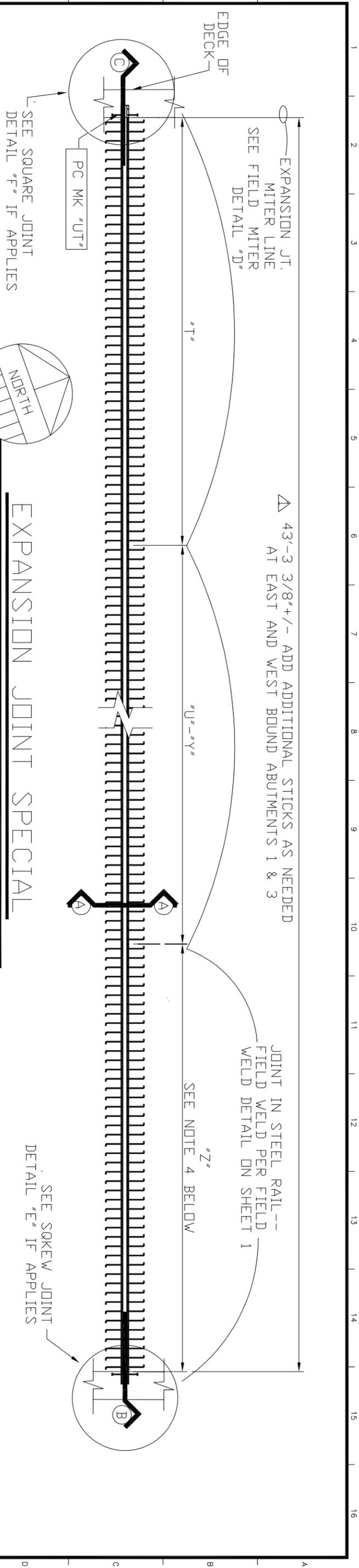
Shop Drawings

Transmitted by: Bowman Construction Supply

Signed: Martin Verce

By: Martin J. Verce

Date: 10-05-2021



- EXPANSION JOINT SPECIAL**
1. DEVICE(S) REQUIRED AT APPROACH SLAB
 2. D.S. BROWN SSA2 RAIL WITH A2R SEAL
 3. SEE NOTES ON SHEET G-1
 4. FIELD CUT "CUT PC" TO ACTUAL "Z" DIMENSIONS

SEE CONTRACT DRAWINGS

STRUCTURE #	LOCATION	EXP. TOTAL LENGTH	DIM "T"	DIM "U"	DIM "V"	DIM "W"	DIM "X"	DIM "Y"	DIM "Z"
WEST BOUND	ABUTMENT 1	42'-3-3/8"	4'-3 3/8"					4'-5 1/2"	23'-0"
WEST BOUND	ABUTMENT 3	42'-3-3/8"	4'-3 3/8"					4'-5 1/2"	23'-0"
EAST BOUND	ABUTMENT 1	42'-3-3/8"	23'-0"	10'-6.5"	4'-5 1/2"				4'-3 3/8"
EAST BOUND	ABUTMENT 3	42'-3-3/8"	23'-0"	10'-6.5"	4'-5 1/2"				4'-3 3/8"

FIELD ASSEMBLY CHART

-ANY CHANGES TO SEQUENCE OF ASSEMBLY MAY RESULT IN EXTRA MATERIAL NEEDED AT THE CONTRACTORS EXPENSE
 -ADDITIONAL FIELD CUTS CAN BE MADE TO EXPANSION DEVICE FOR PHASING AND CROWNS IN ROADWAY. THOSE DROPS MUST BE USED IN THE SEQUENCE THEY ARE CUT.
 -ALL CUTS SHALL BE DONE AS A PAIR OF "STD" PC.
 -*THESE PARTS WILL BE PROVIDED TO YOU PRE-CUT TO LENGTH BY THE MANUFACTURE (FIELD TRIM TO FIT)

BILL OF MATERIALS

QTY	DESCRIPTION
8EA	"STD PC", 23'-0"
8EA	"STD PC", 15'-0"
	FIELD CUT TO 10'-6 1/2" AND
	4'-5 1/2"
8EA	"CUT PC", 5'-0"
	FIELD CUT TO 4'-3 3/8"
8 EA	FABRICATED UPTURNS
1 EA	43'-0" A2R-400
	(FIELD TRIM TO FIT)
1 QT	1520 LUBE ADHESIVE

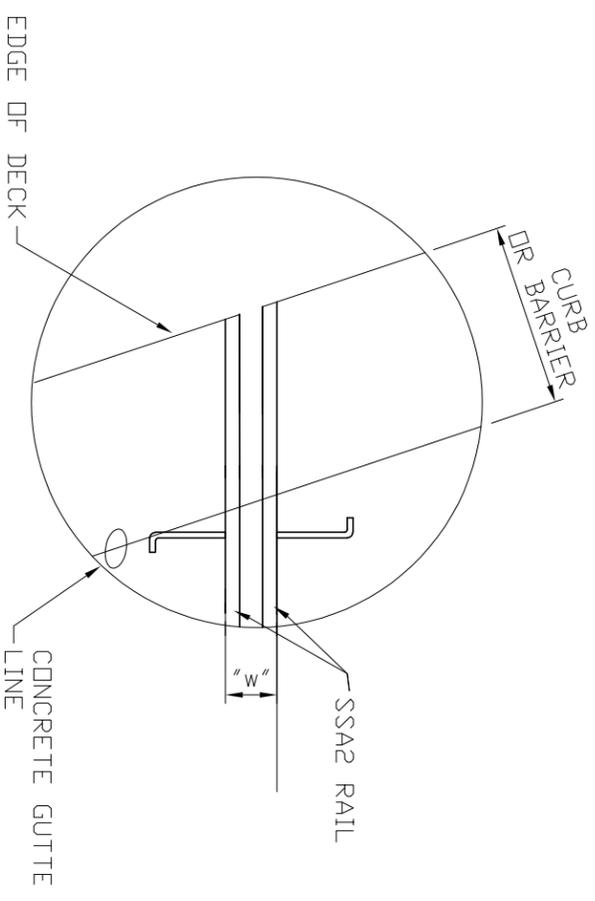
THIS SPACE FOR REVIEW STAMP

Δ MV	08/20/21
MK	DATE
	DESCRIPTION
	SHEET REVISIONS

BOWMAN CONSTRUCTION SUPPLY, INC.
 10801 EAST 54TH AVENUE DENVER, CO 80239
 (303) 696-8960 FAX (303) 696-0620

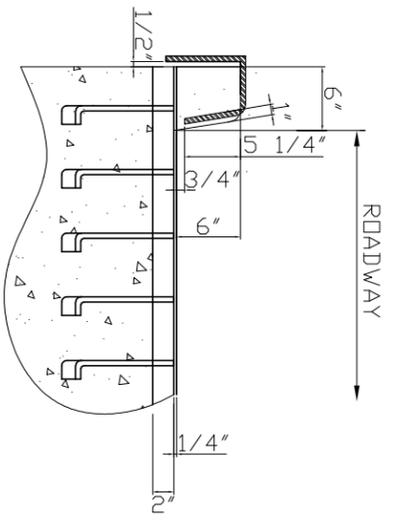
ENGINEER: CDDT
 DESCRIPTION OF MATERIALS:
 BRIDGE EXPANSION DEVICE (0-4")
 D.S. BROWN SSA2 RAIL WITH A2R-400 SEAL
 STRUCTURE: FOREST LAKES BRIDGES

CUSTOMER: STRUCTURES INC
 PROJECT: FOREST LAKES BRIDGES
 LOCATION: MONUMENT, CO
 DWG BY: MV
 CHK BY:
 SHEET 2 OF 9
 DATE: 04-16-21

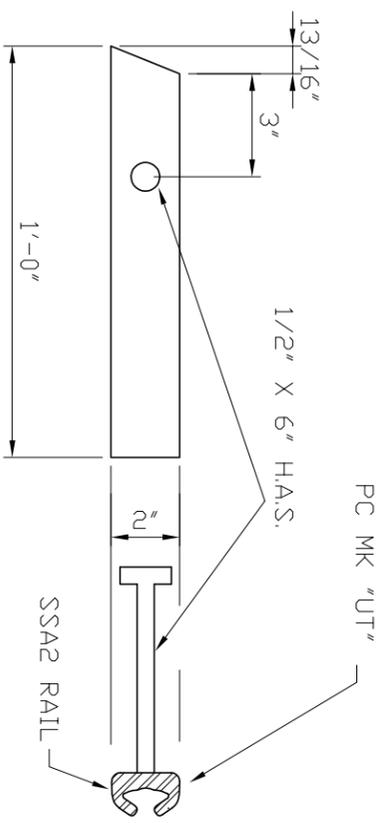


CURB RECESS DETAIL F SQUARE

EXPANSION JOINT RUNS THROUGH CURB

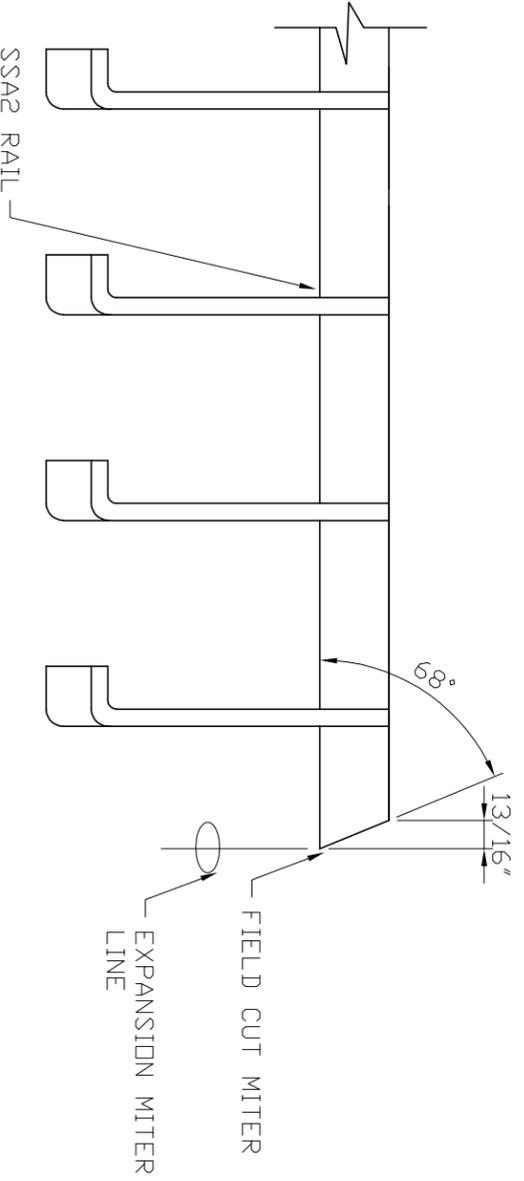


SECTION "C"



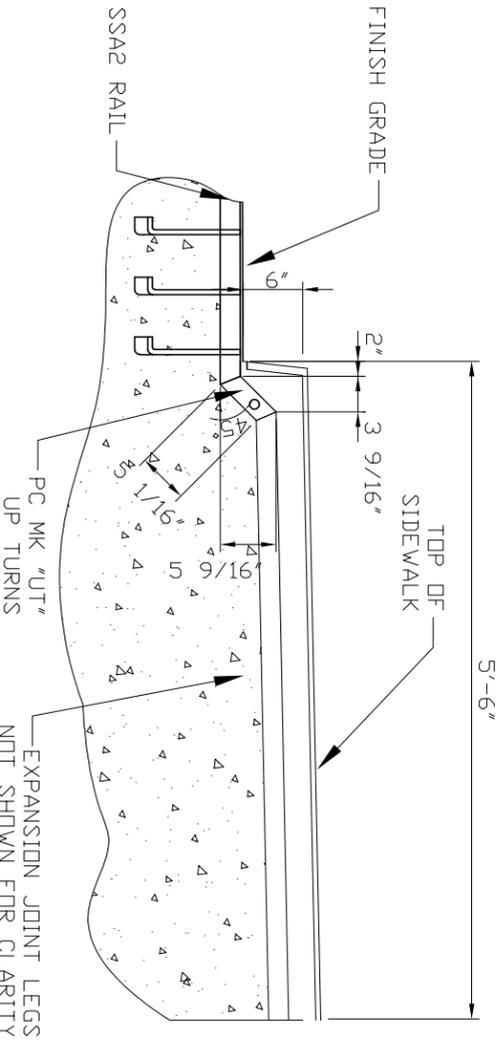
CURB UPTURN (PC MK "UT")

8 EA PC MK "UT", FIELD TRIM TO FIT
 GALVANIZED
 HALF THE QUANTITY ABOVE WILL BE
 CUT WITH MIRROR IMAGE



**DETAIL "B"
 FIELD CUT**

SEE FIELD WELD DETAIL ON SHEET G-1



SECTION "C"

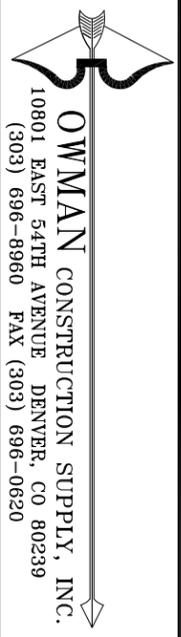
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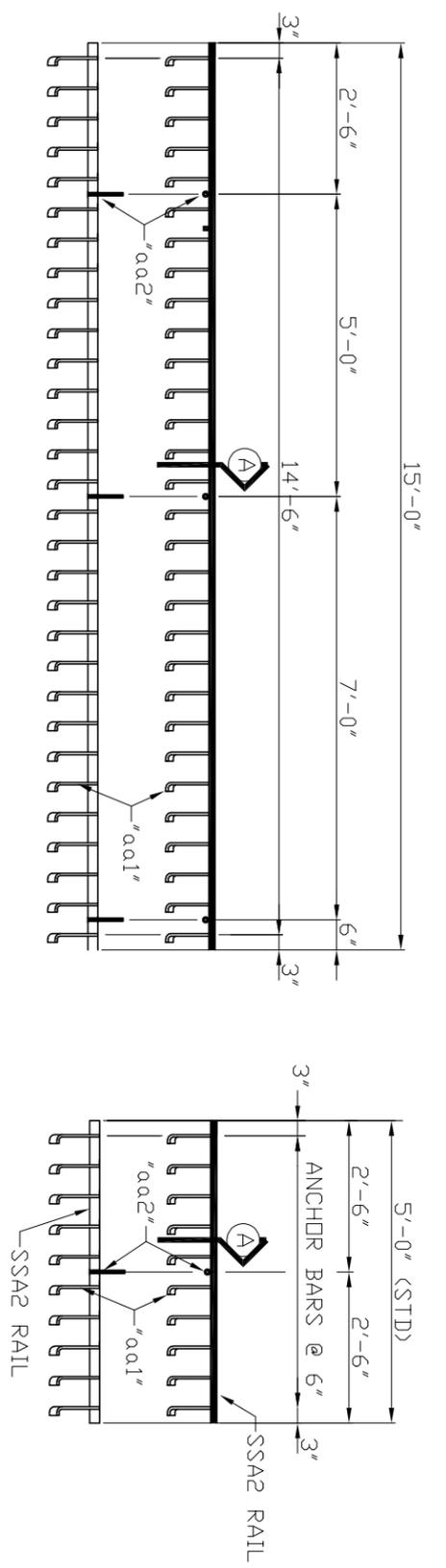
BILL OF MATERIALS	
QTY	DESCRIPTION
8	PC MK "UT"
2	PC 1/2" X 6"
	HEADED ANCHOR STUDS

DESCRIPTION	DATE
REVISIONS	
MK	
DESCRIPTION	DATE
REVISIONS	

ENGINEER: CDDT
 DESCRIPTION OF MATERIALS:
 CURB UPTURNS

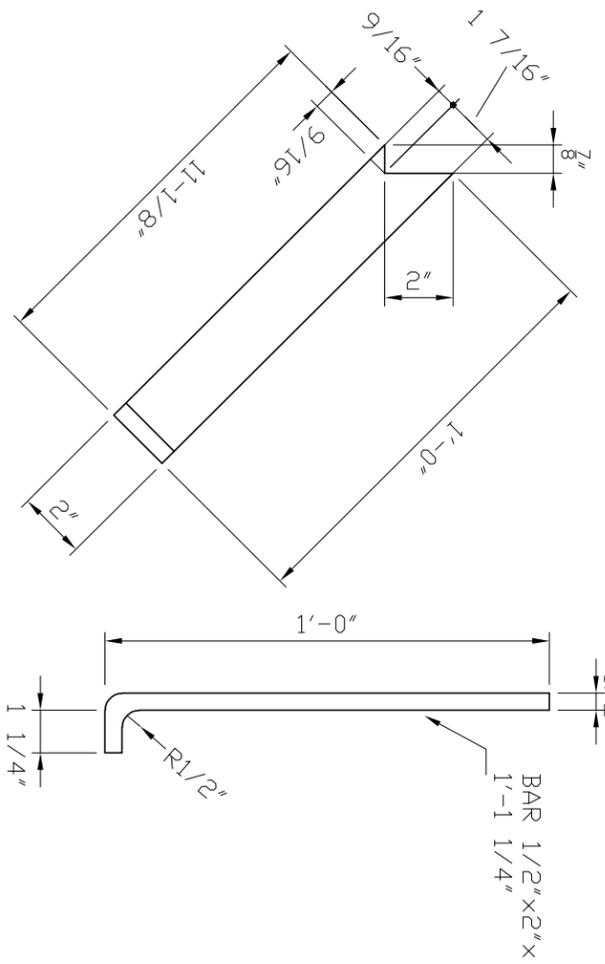
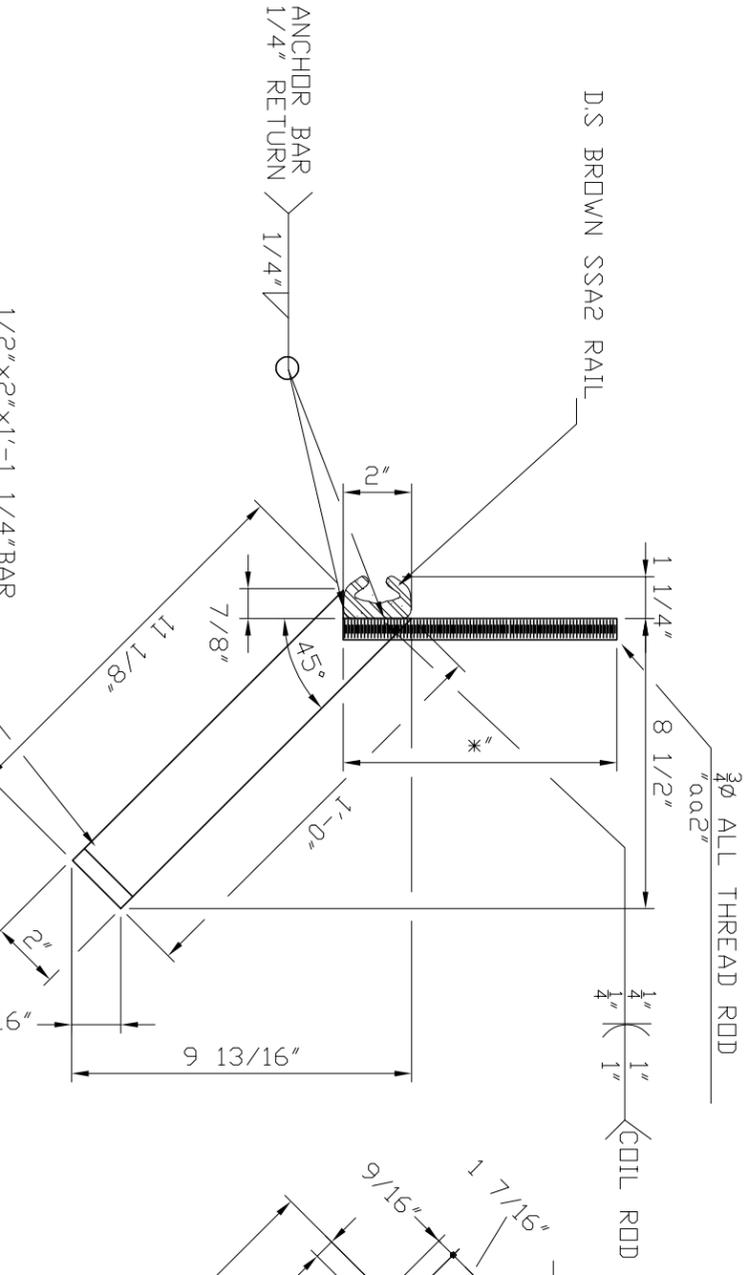
CUSTOMER: STRUCTURES INC
 PROJECT: FOREST LAKES BRIDGES
 LOCATION: MONUMENT, CO
 DWG BY: MJV | CHK BY: [] | SHEET 4 OF 9 | DATE: 04-16-21





EXPANSION DEVICE (STD) & (CUT)

8 PC REQUIRED (STD) GALVANIZED FINISH
 8 PC REQUIRED (CUT) GALVANIZED
 TRIM DEFORMED ENDS OF SSA2 RAIL



SECTION "A"

* A 3' ATR WILL BE ATTACHED ON BACK OF RAIL
 BOWMAN CONSTRUCTION SUPPLY WILL PROVIDE EXTENSION
 TO MEET THE 9' OVERALL HEIGHT

ANCHOR BAR DETAILS

BILL OF MATERIALS

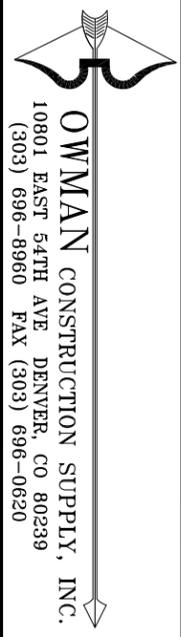
QTY	DESCRIPTION
8EA	15'-0" EXP. DEVICE (STD)
8EA	8 EA SSA2 RAIL, 15'-0"
8EA	5'-0" EXP. DEVICE (CUT)
8 EA	8 EA SSA2 RAIL, 5'-0"

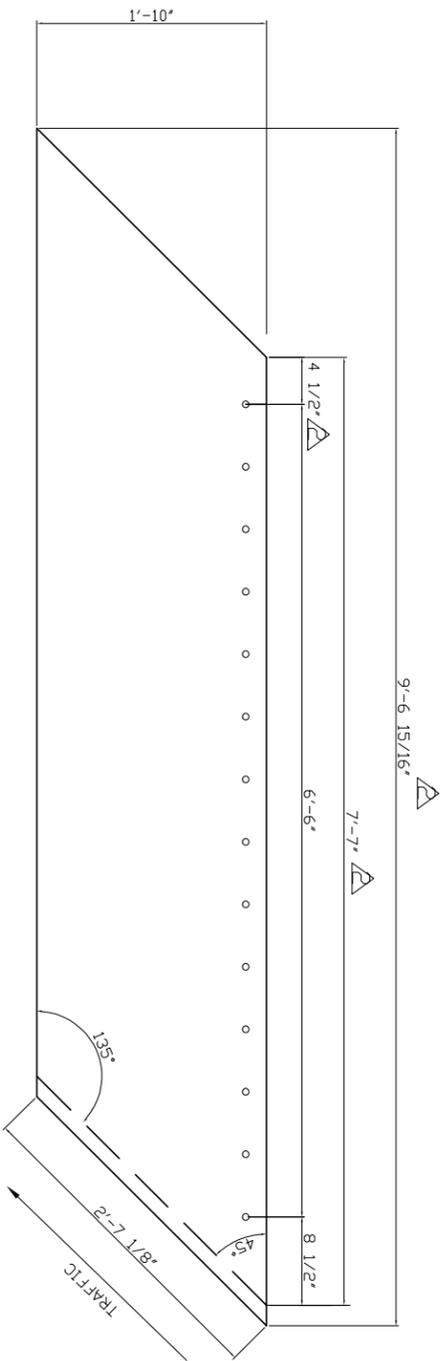
THIS SPACE FOR REVIEW STAMP

DESCRIPTION	DATE

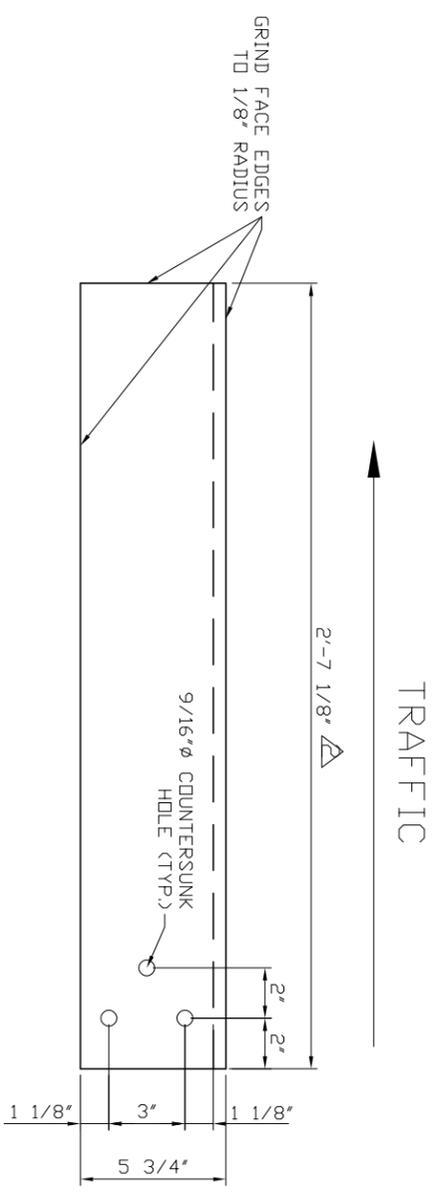
ENGINEER: CDDT
 DESCRIPTION OF MATERIALS:
 BRIDGE EXPANSION DEVICE (0-4")
 D.S. BROWN SSA2 RAIL WITH A2R-400
 SEAL

CUSTOMER: STRUCTURES INC
 PROJECT: FOREST LAKES BRIDGES
 LOCATION: MONUMENT, CO
 DWG BY: MJV | CHK BY: | SHEET 7 OF 9 | DATE: 04-16-21



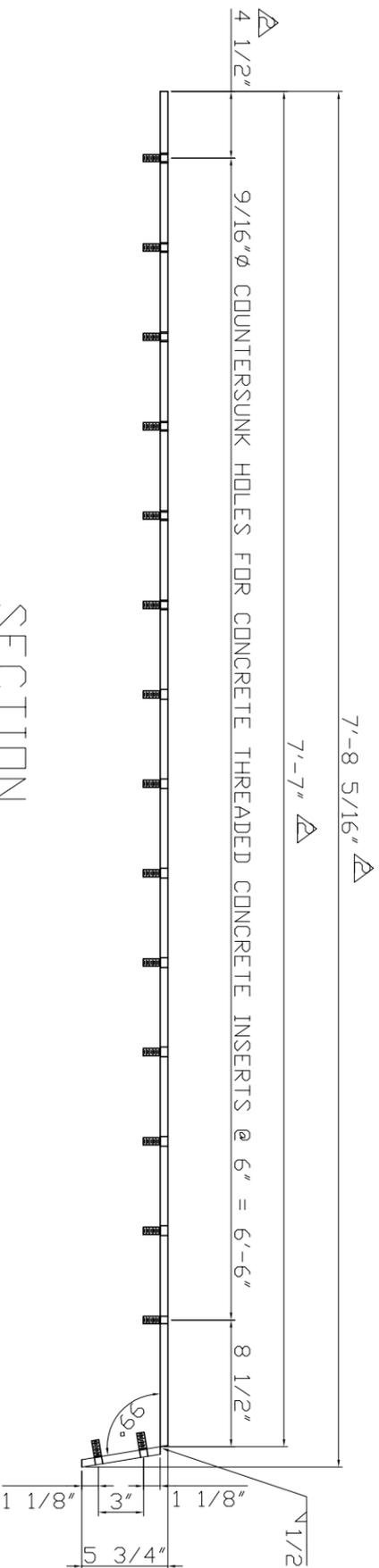


PLAN



ELEVATION

LOOKING PERPENDICULAR TO THE FACE



SECTION

SIDE WALK COVER PLATE PC MK "CP"

6 EA PC MK "CP", 1EA @ ABUTS. 1 AND 3, 2EA @ PIER 2
 GALVANIZED

MV	08/20/21
MV	10/05/21
DESCRIPTION	DATE
SHEET REVISIONS	

BOWMAN CONSTRUCTION SUPPLY, INC.
 10801 EAST 54TH AVENUE DENVER, CO 80239
 (303) 696-8960 FAX (303) 696-0620

ENGINEER: CDDT
 DESCRIPTION OF MATERIALS:
 SIDEWALK COVER PLATES
 STRUCTURE: FOREST LAKES BRIDGES

CUSTOMER: STRUCTURES INC
 PROJECT: FOREST LAKES BRIDGES
 LDCATION: MONUMENT, CO
 DWG BY: MJV | CHK BY: | SHEET 9 OF 9 | DATE: 04-16-21

THIS SPACE FOR REVIEW STAMP

BILL OF MATERIALS	
QTY	DESCRIPTION
5	PC MK "CP"
	1/2" x 1'-10" x 7'-10 3/8"
	CHECKER PLATE, GALVANIZED