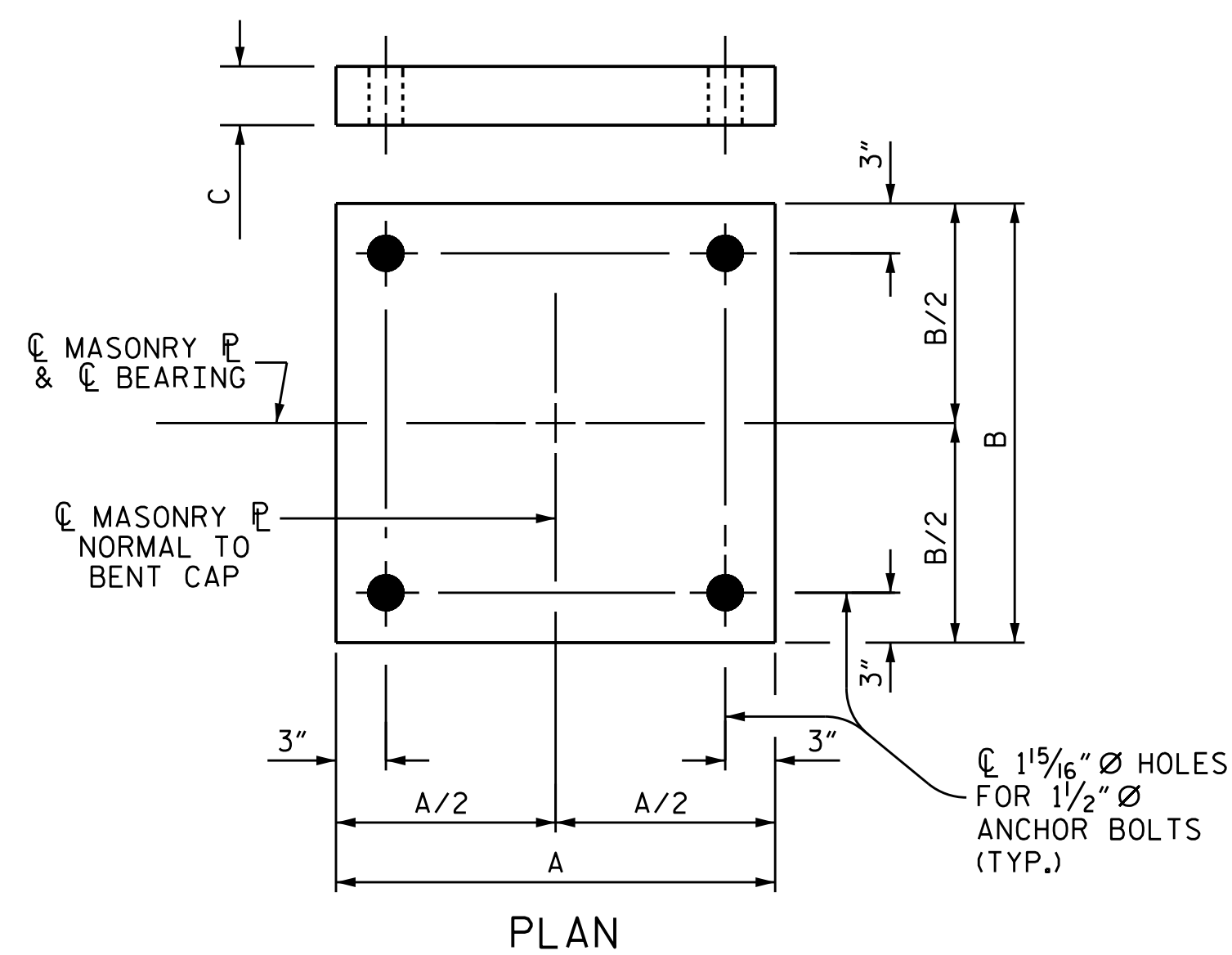


NOTE:
DIMENSIONS "L", "W", AND "H" SHALL BE DETERMINED BY THE BEARING MANUFACTURER. SET DIMENSION "L" SUCH THAT THE MINIMUM EDGE DISTANCE TO THE GIRDER FLANGE IS 1".

SOLE PLATE DETAILS



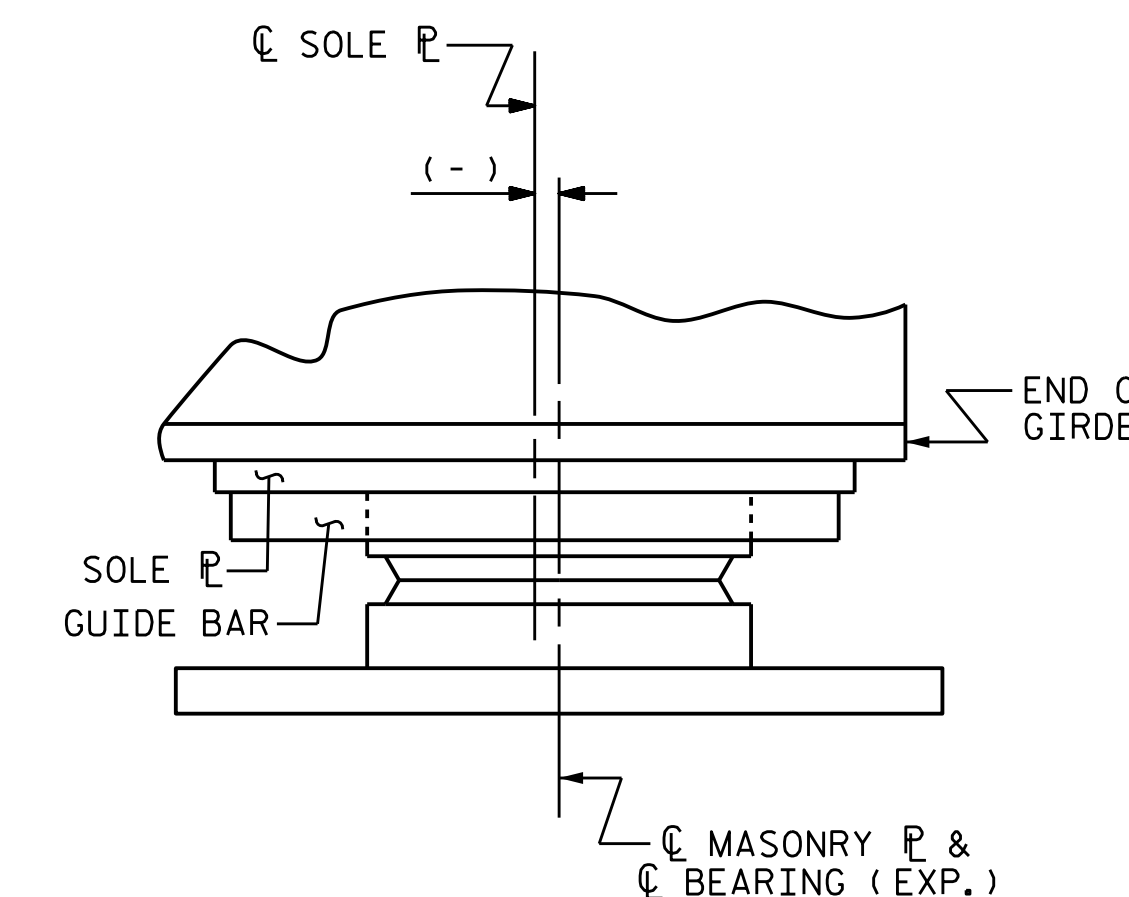
MASONRY PLATE DETAILS

EXPANSION CHORD SETTING ANGLES (EXPANSION DISC BEARINGS)						
GIRDER	LOCATION					
	BENT 13 FAR	BENT 16 NEAR	BENT 16 FAR	BENT 19 NEAR	BENT 19 FAR	BENT 22 NEAR
1	92°55'-04"	87°-04'-56"	92°55'-04"	87°-04'-56"	92°55'-04"	87°-04'-56"
2	92°55'-03"	87°-04'-57"	92°55'-03"	87°-04'-57"	92°55'-03"	87°-04'-57"
3	92°55'-02"	87°-04'-58"	92°55'-02"	87°-04'-58"	92°55'-02"	87°-04'-58"
4	92°55'-01"	87°-04'-59"	92°55'-01"	87°-04'-59"	92°55'-01"	87°-04'-59"
5	92°55'-00"	87°-05'-00"	92°55'-00"	87°-05'-00"	92°55'-00"	87°-05'-00"

PLATE SETTING DATA (EXPANSION DISC BEARINGS)				
LOCATION	TEMPERATURE AT TIME OF SETTING			*
	45° F	60° F	90° F	
@ BENT 13	-1/4"	0"	9/16"	-1/4"
@ BENT 16	-1/4"	0"	9/16"	-1/4"
@ BENT 19	-1/4"	0"	9/16"	-1/4"
@ BENT 22	-1/4"	0"	9/16"	-1/4"

* CORRECTION FOR END ROTATION DUE TO WEIGHT OF SLAB AND COMPOSITE DEAD LOAD.

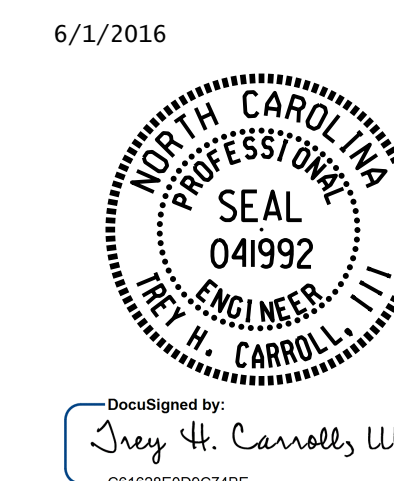
TEMPERATURE SETTING DETAIL



BEARINGS	LOCATION	NUMBER OF BEARINGS	DIMENSIONS					SOLE PLATE TOP SLOPE (%)	LOADS AND MOVEMENT			ONE-WAY MOVEMENT (IN.)
			BEARING H (IN.)	MASONRY PLATE			UNFACTORED VERTICAL LOAD (KIPS)		FACTORED HORIZONTAL LOAD (KIPS)	LIVE LL+IM		
				A (IN.)	B (IN.)	C (IN.)					DC	
DB1 (EXP.)	BENT 13	5	8"	25 1/2"	25 1/2"	3/4"	+3.40%	108	16	111	45	1 3/4"
DB2 (FIXED)	BENT 14	5	8 11/16"	26 1/2"	26 1/2"	1"	+2.42%	399	54	234	143	0
DB3 (FIXED)	BENT 15	5	8 7/16"	26 1/2"	26 1/2"	1"	-0.42%	399	54	234	143	0
DB4 (EXP.)	BENT 16	5	7 13/16"	25 1/2"	25 1/2"	3/4"	-1.90%	108	16	111	45	1 3/4"
DB5 (EXP.)	BENT 16	5	8"	25 1/2"	25 1/2"	3/4"	-3.40%	108	16	111	45	1 3/4"
DB6 (FIXED)	BENT 17	5	8 13/16"	26 1/2"	26 1/2"	1"	-3.42%	399	54	234	143	0
DB6 (FIXED)	BENT 18	5	8 13/16"	26 1/2"	26 1/2"	1"	-3.42%	399	54	234	143	0
DB5 (EXP.)	BENT 19	5	8"	25 1/2"	25 1/2"	3/4"	-3.40%	108	16	111	45	1 3/4"
DB5 (EXP.)	BENT 19	5	8"	25 1/2"	25 1/2"	3/4"	-3.40%	108	16	111	45	1 3/4"
DB6 (FIXED)	BENT 20	5	8 13/16"	26 1/2"	26 1/2"	1"	-3.42%	399	54	234	143	0
DB6 (FIXED)	BENT 21	5	8 13/16"	26 1/2"	26 1/2"	1"	-3.42%	399	54	234	143	0
DB5 (EXP.)	BENT 22	5	8"	25 1/2"	25 1/2"	3/4"	-3.40%	108	16	111	45	1 3/4"

PROJECT NO. B-4929
PENDER COUNTY
 STATION: 38+13.81 -L2-

SHEET 2 OF 2 STEEL ALTERNATE



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

STANDARD
 DISC BEARING
 DETAILS

ASSEMBLED BY : T. H. CARROLL	DATE : 12/15/15
CHECKED BY : T. R. PETERSON	DATE : 12/17/15
DRAWN BY : TMG 08/13	REV. REV.
CHECKED BY : EXP 10/13	REV. REV.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	TOTAL SHEETS
1			3			278
2			4			278