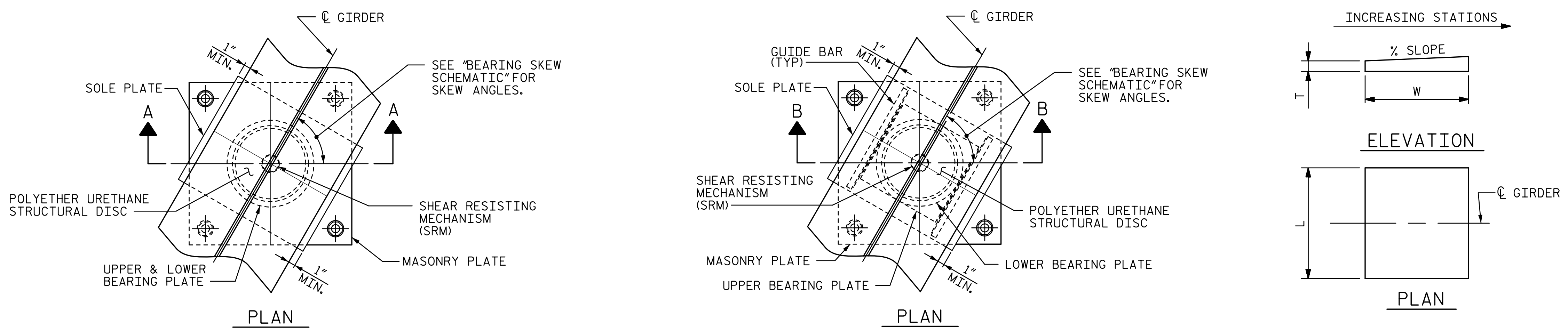


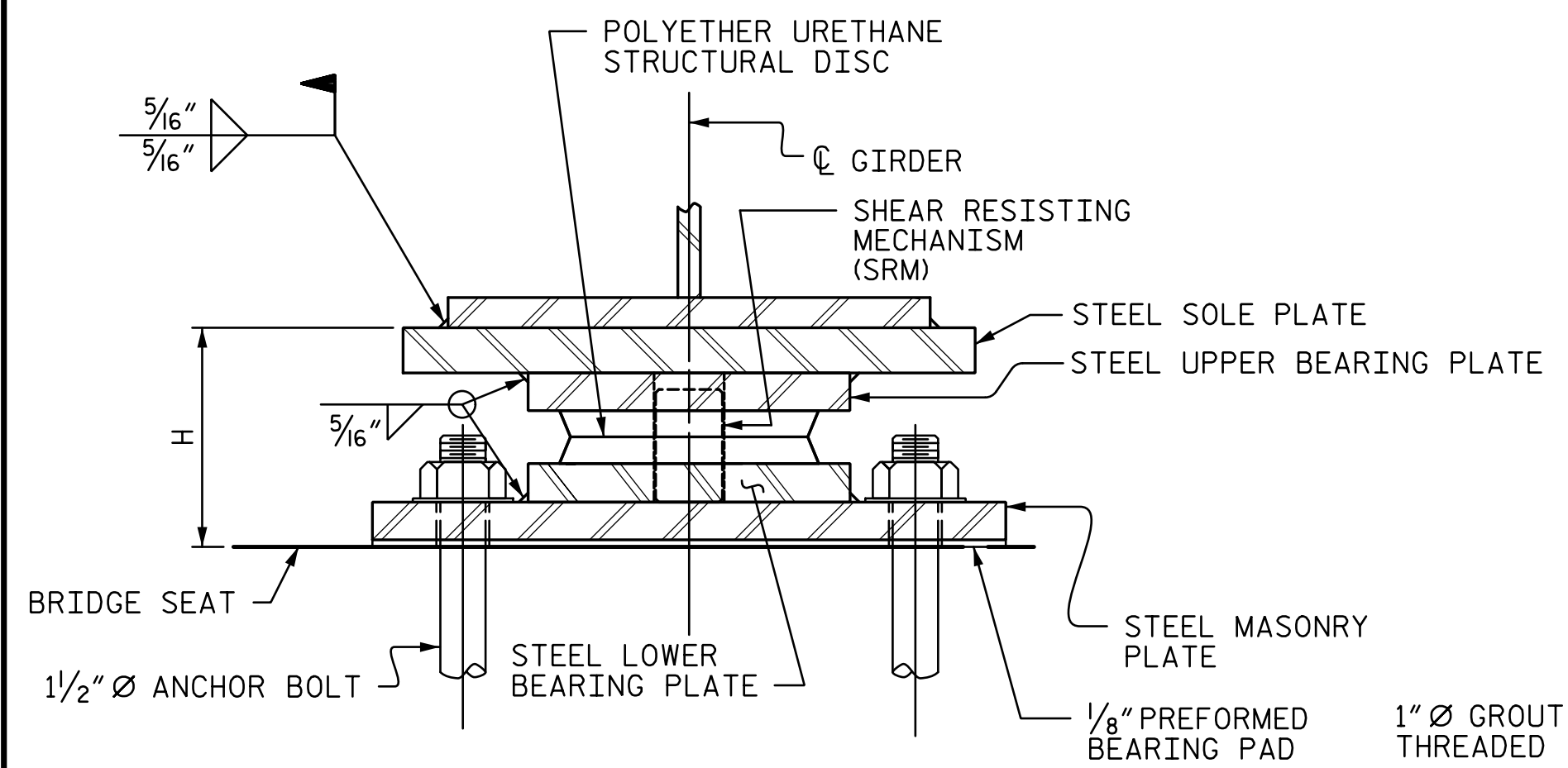
NOTES

- FOR DISC BEARINGS, SEE SPECIAL PROVISIONS.
- ALL BEARING PLATES SHALL BE AASHTO M270 GRADE 50W OR GRADE 50.
- AT ALL POINTS OF SUPPORT, NUTS FOR ANCHOR BOLTS SHALL BE FINGER-TIGHTENED PLUS AN ADDITIONAL 1/4 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.
- WHEN WELDING THE SOLE PLATE TO THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE BEARING DOES NOT EXCEED 250°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE TFE OR URETHANE DISC.
- AFTER BEARING ASSEMBLY IS IN PLACE AND ANCHOR BOLTS HAVE BEEN FINALLY POSITIONED, THEY SHALL BE GROUTED IN PLACE AS SHOWN.
- THE CLOSURE PLATE, GROUT PIPE, AND STANDARD PIPE FOR THIS ASSEMBLY NEED NOT BE GALVANIZED.
- SOLE PLATES SHOULD BE WELDED TO GIRDER FLANGES AND ANCHOR BOLTS SHOULD BE GROUTED BEFORE FALSEWORK IS PLACED.
- ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.
- FOR ATTACHMENT OF THE STAINLESS STEEL SHEETS TO THE STEEL SOLE PLATE AND GUIDE BARS, AS WELL AS THE TOP AND SIDE PTFE SHEETS TO THE STEEL UPPER BEARING PLATE, SEE SPECIAL PROVISIONS.
- FOR THERMAL SPRAYED COATINGS (METALLIZATION), SEE SPECIAL PROVISIONS.
- THE MINIMUM ROTATIONAL CAPACITY FOR ALL BEARINGS SHALL BE 0.02 RADIAN.

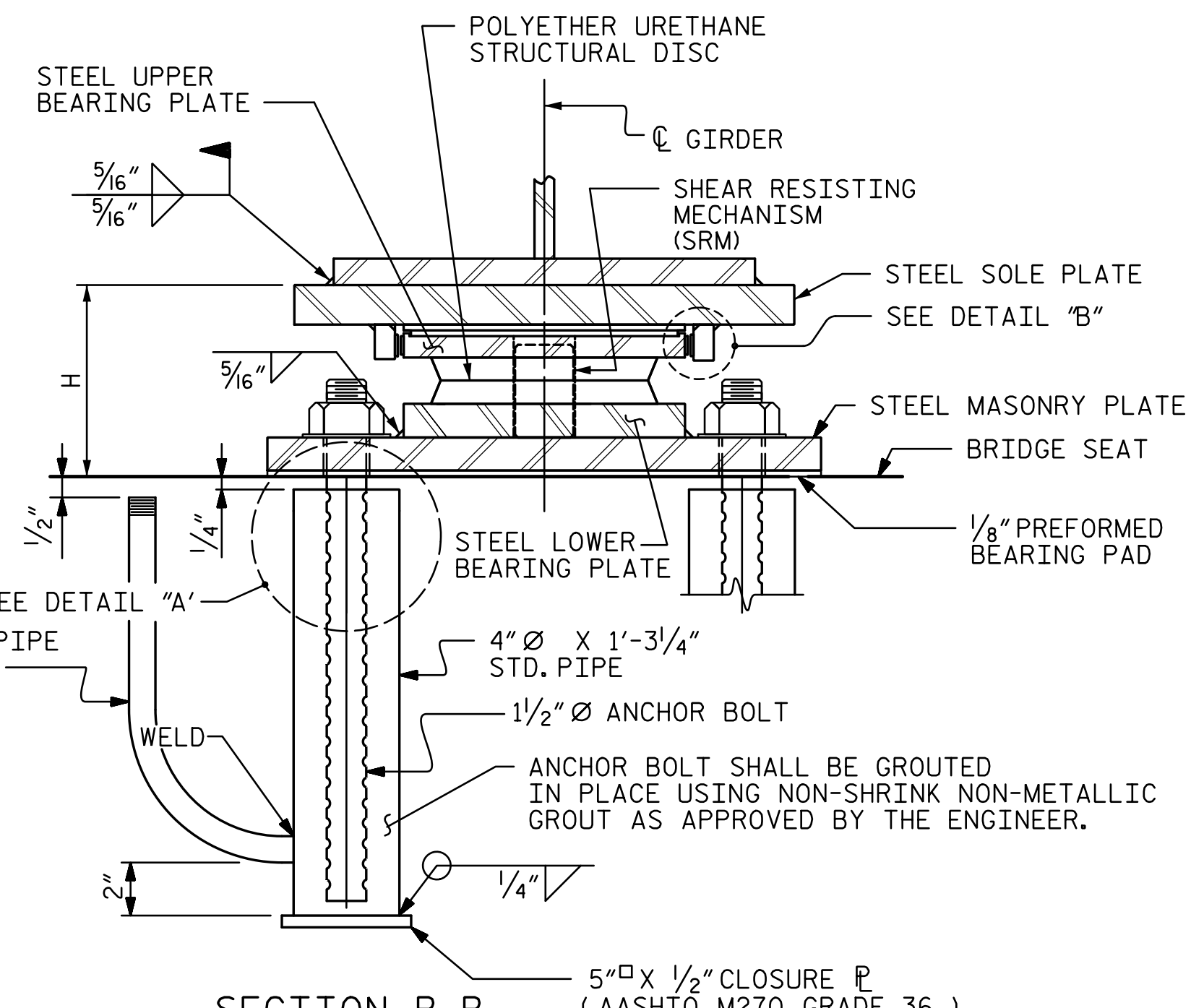


NOTE: DIMENSIONS "W" AND "T" SHALL BE DETERMINED BY THE BEARING MANUFACTURER.

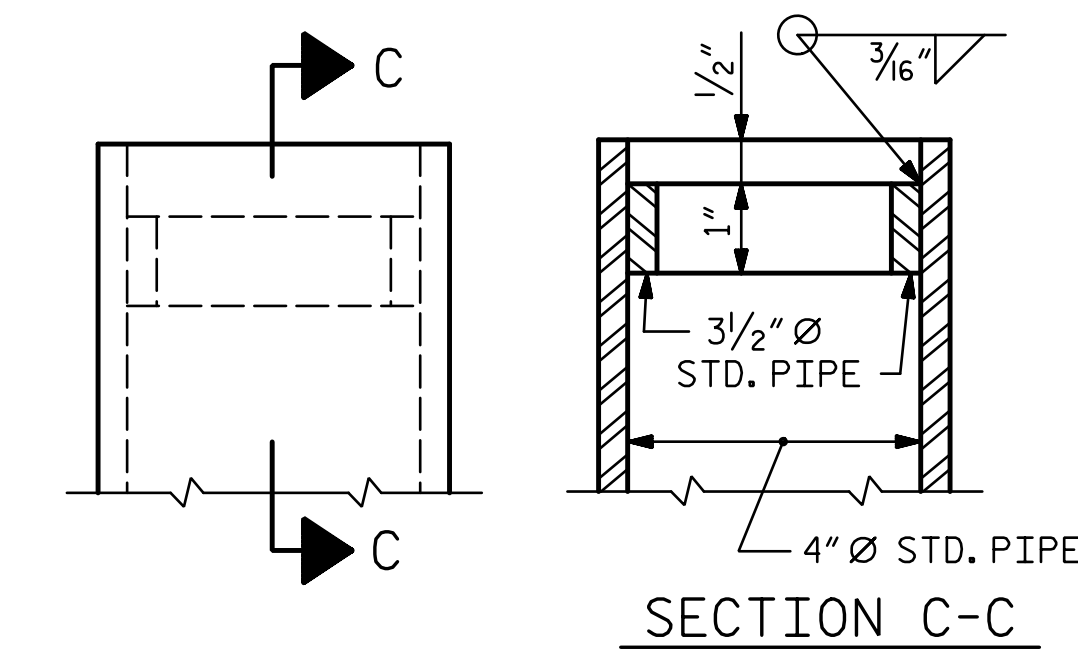
SOLE PLATE DETAILS



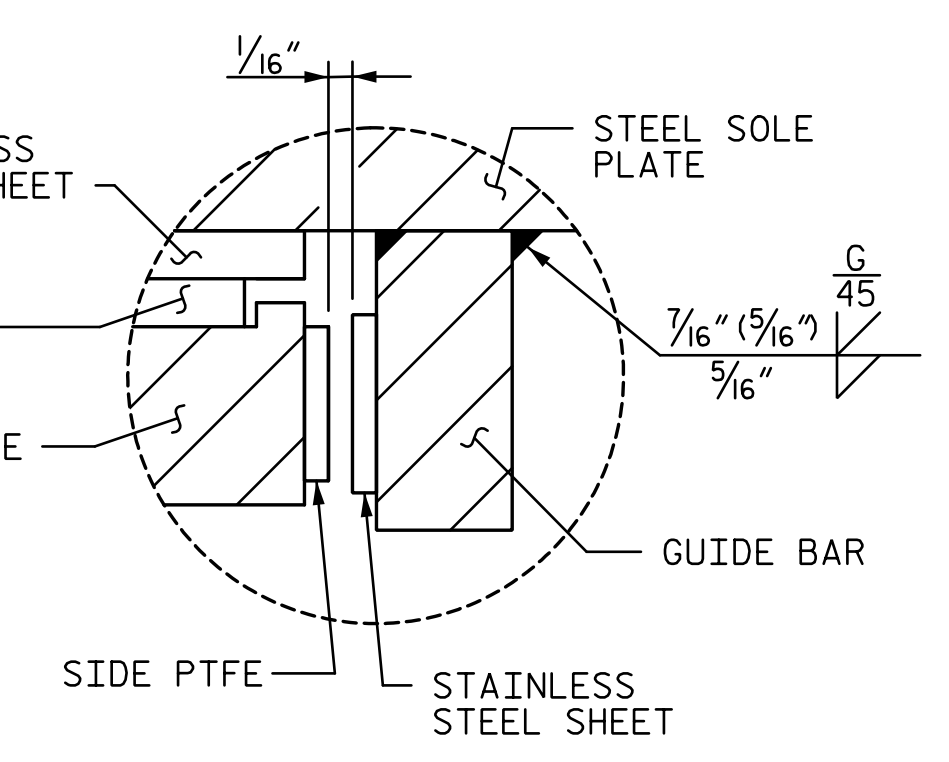
SECTION A-A
"DB" FIXED
"SEE TABLE FOR BEARING DESIGNATIONS."



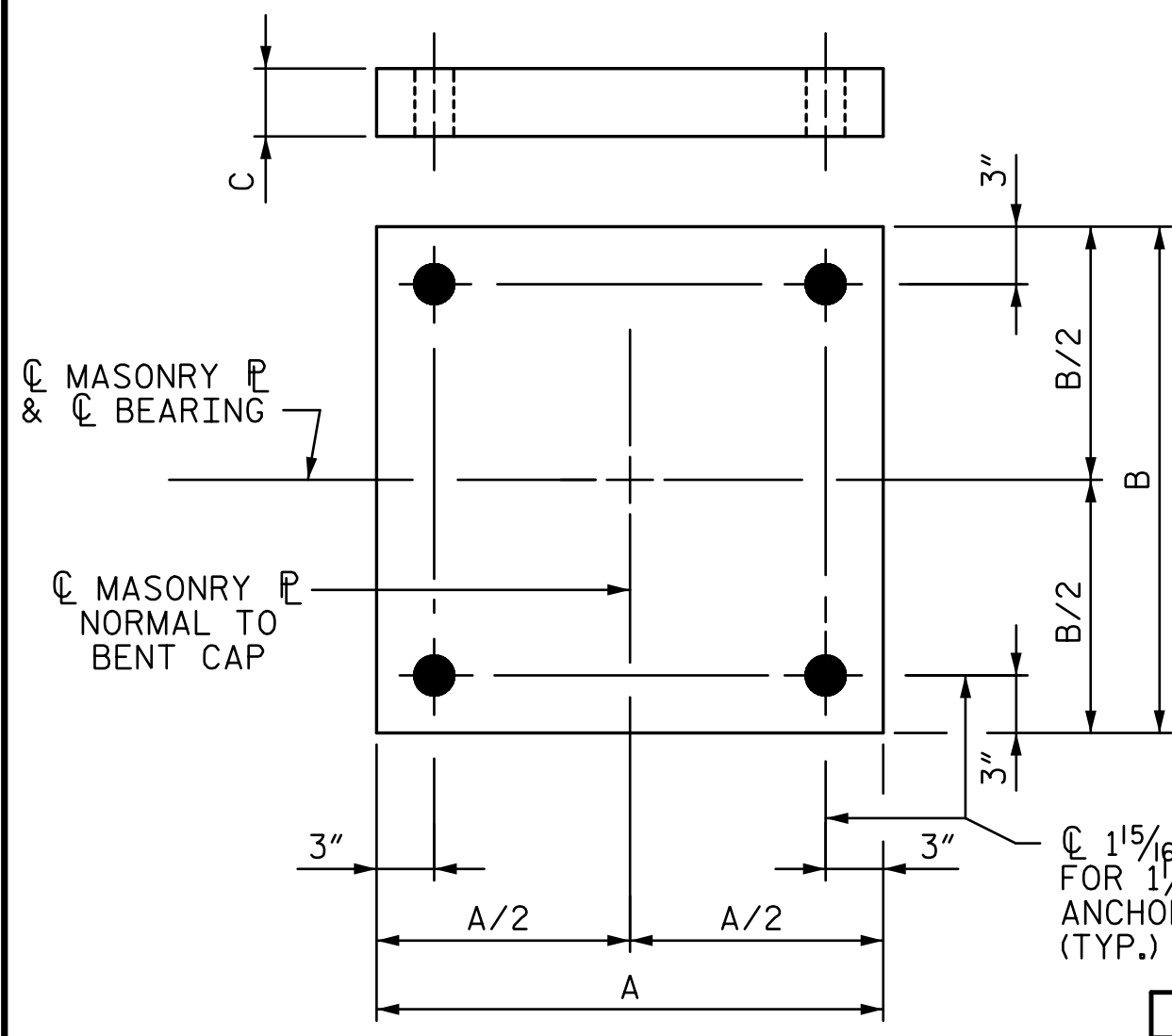
SECTION B-B
"DB" EXP.
"SEE TABLE FOR BEARING DESIGNATIONS."



DETAIL "A"



DETAIL "B"

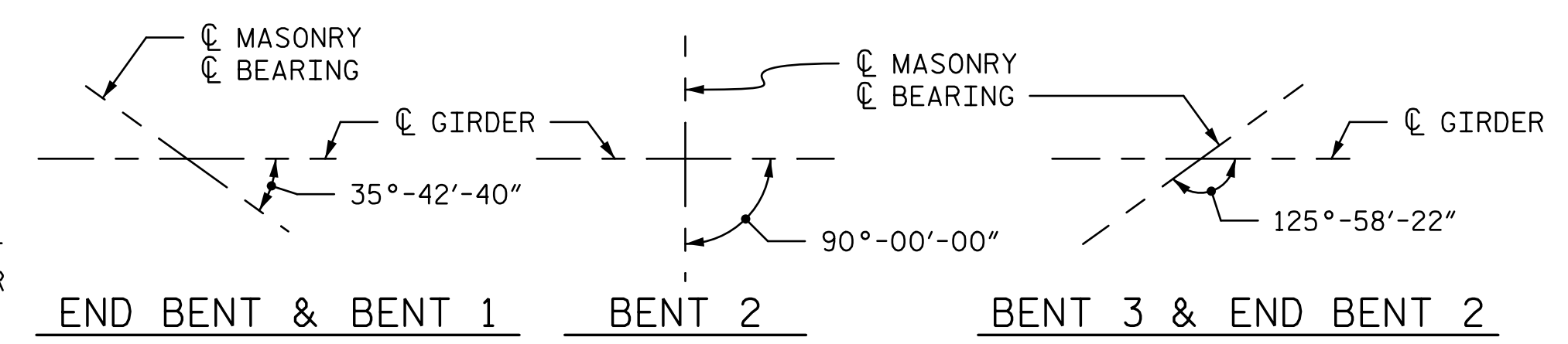
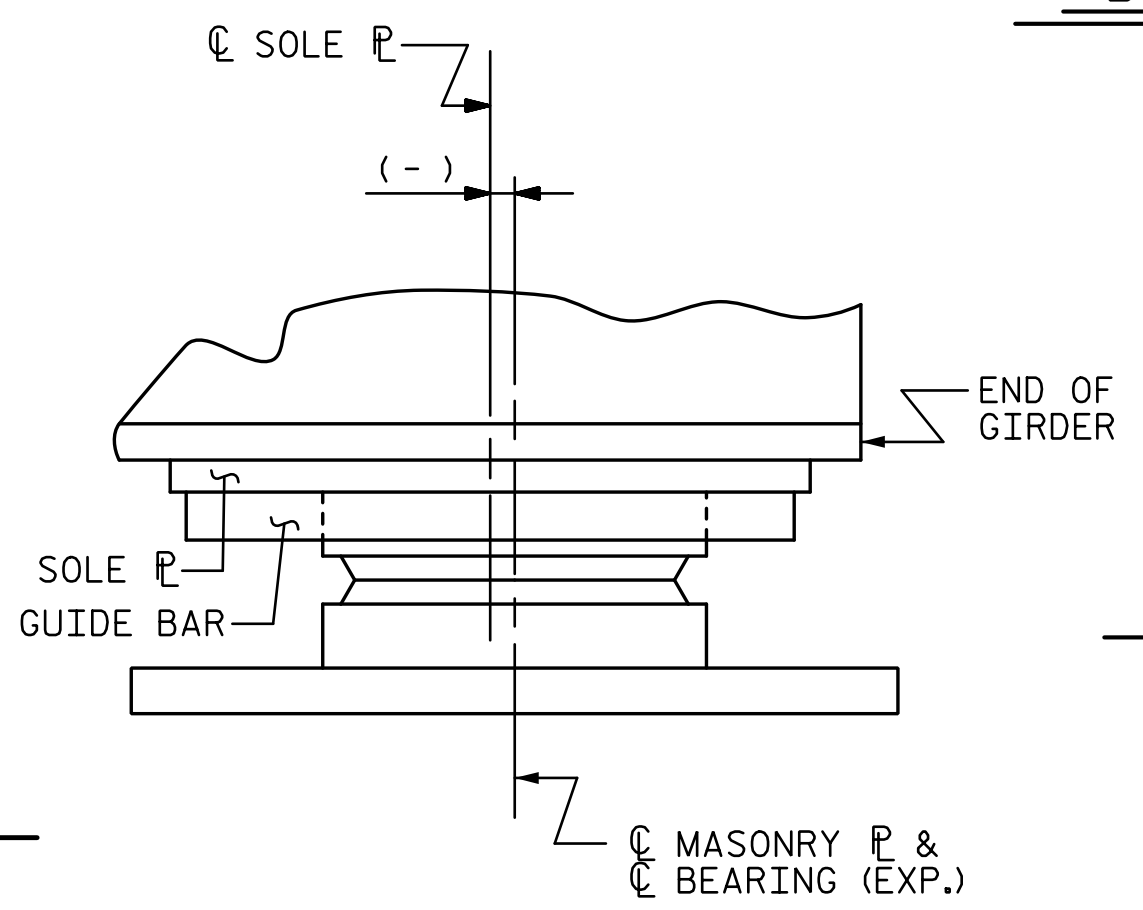


PLAN
MASONRY PLATE DETAILS

PLATE SETTING DATA (EXPANSION DISC BEARINGS)				
LOCATION	TEMPERATURE AT TIME OF SETTING			*
	45° F	60° F	90° F	
END BENT 1	-3/8"	0	1/16"	3/8"
END BENT 2	-3/8"	0	1/16"	1/2"

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

TEMPERATURE SETTING DETAIL



BEARING SKEW SCHEMATIC

PROJECT NO. **R-2707C**
CLEVELAND COUNTY
STATION: **596+50.98 -L-**

DESIGNATIONS		LOCATION	NUMBER OF BEARINGS	DIMENSIONS			LOADS AND MOVEMENT							
BEARINGS	MASONRY PLATE			BEARING H (IN.)	MASONRY PLATE A (IN.)	MASONRY PLATE B (IN.)	SOLE PLATE TOP SLOPE (%)	SOLE PLATE L (IN.)	UNFACTORED VERTICAL LOAD (KIPS) DEAD	UNFACTORED VERTICAL LOAD (KIPS) LIVE	FACTORED HORIZONTAL LOAD (KIPS)	ONE-WAY MOVEMENT (IN.)		
DB1 (EXP.)	M1	END BENT 1	5	6	27	27	3/4	0.598	22	185.0	22.0	139.0	69.0	3
DB2 (FIXED)	M2	BENT 1	5	7	28 1/2	28 1/2	1	-0.073	26	417.0	53.0	263.0	151.0	0
DB3 (FIXED)	M3	BENT 2	5	5 5/8	22 1/2	22 1/2	3/4	-0.591	22	229.0	32.0	209.0	91.0	0
DB4 (FIXED)	M2	BENT 3	5	7 1/8	28 1/2	28 1/2	1	-1.052	26	417.0	53.0	263.0	151.0	0
DB5 (EXP.)	M1	END BENT 2	5	6 1/8	27	27	3/4	-1.780	22	185.0	22.0	139.0	69.0	3

DRAWN BY: **VMW** DATE: **9-16**
CHECKED BY: **TRL** DATE: **10-16**
DESIGN ENGINEER OF RECORD: **V. WU** DATE: **10-16**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUPERSTRUCTURE
DISC BEARING DETAILS

(SITE 6L)

REVISIONS

NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. **S7-25**
TOTAL SHEETS **56**

12/13/2016 6:59:38 PM R:\407_049_R2707C_SMU_DBS_S7-25.dgn