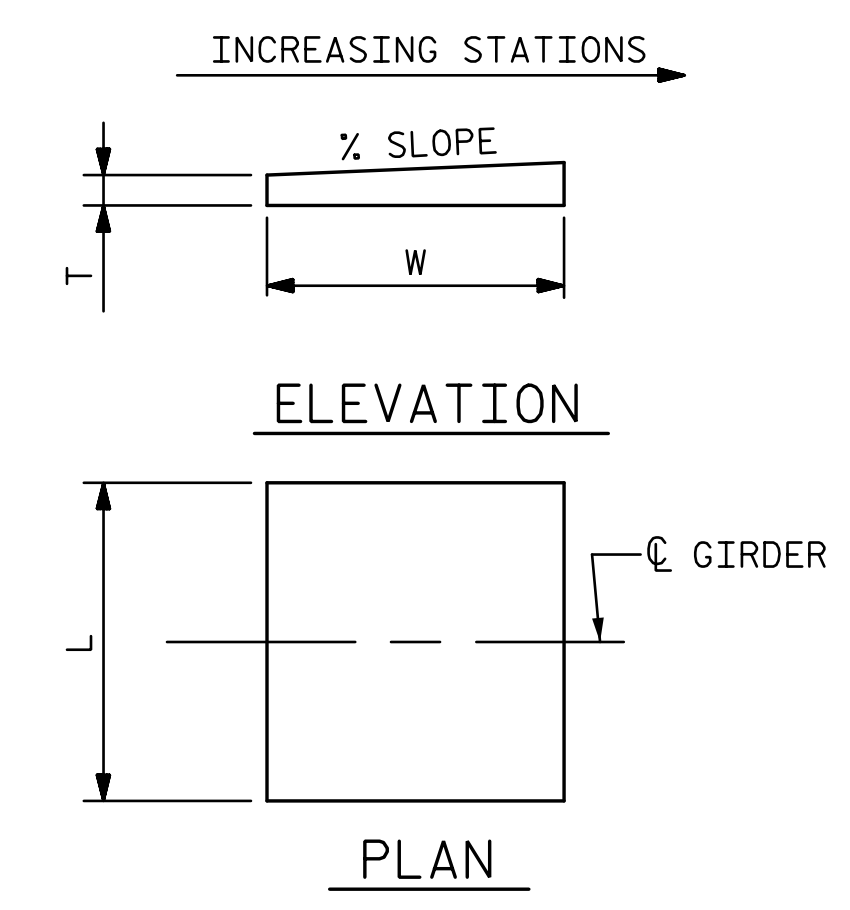
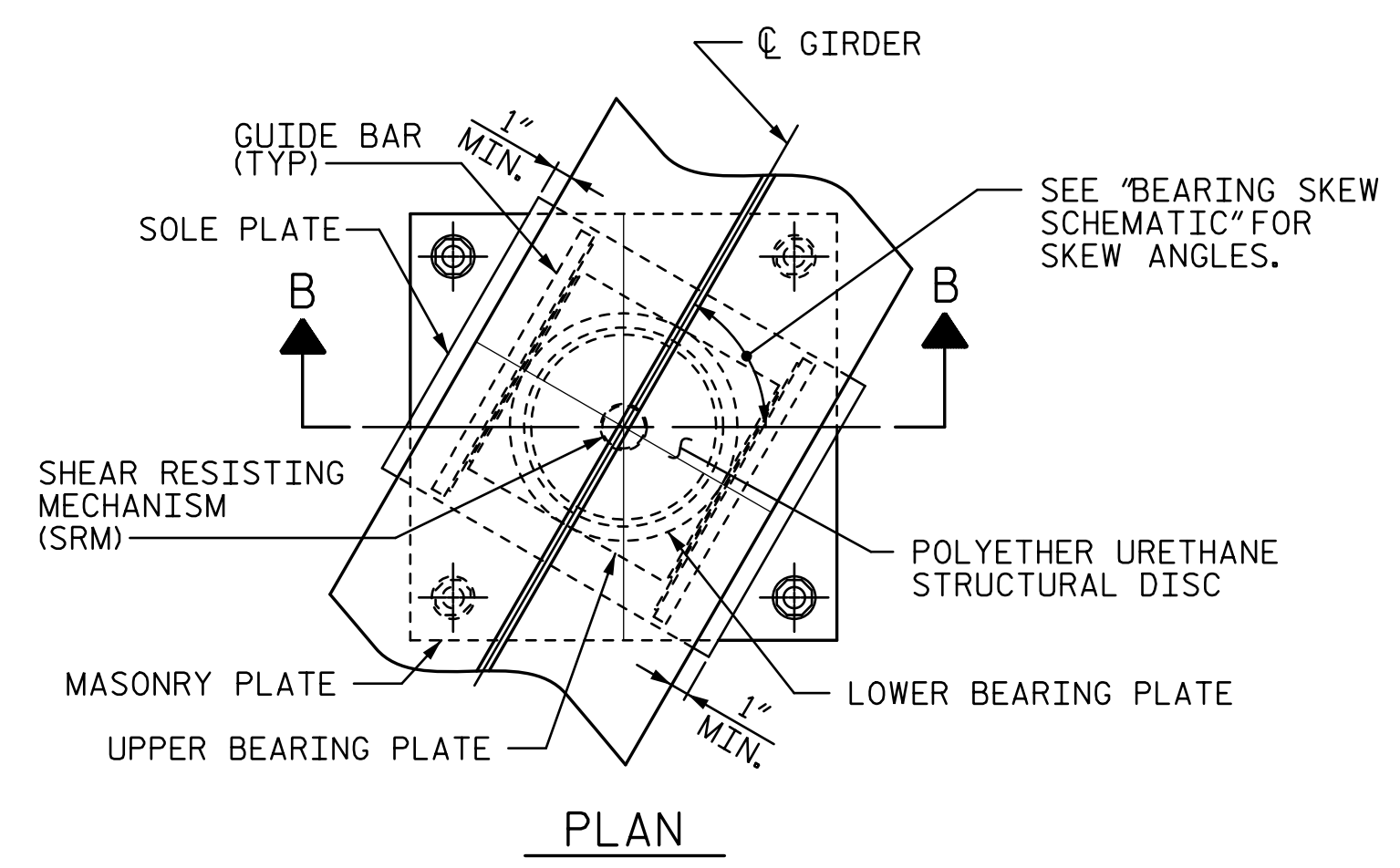
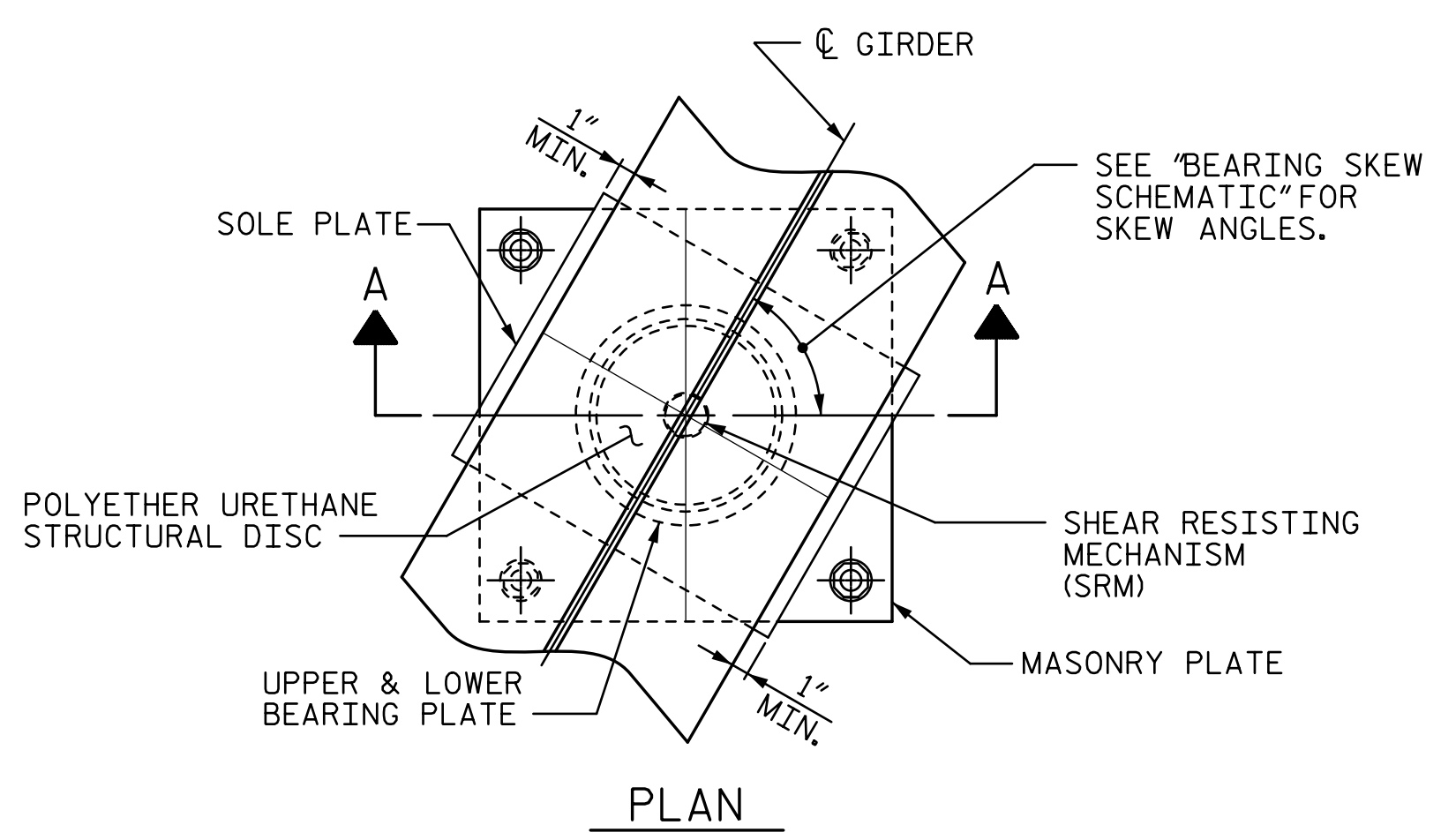


NOTES

- 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

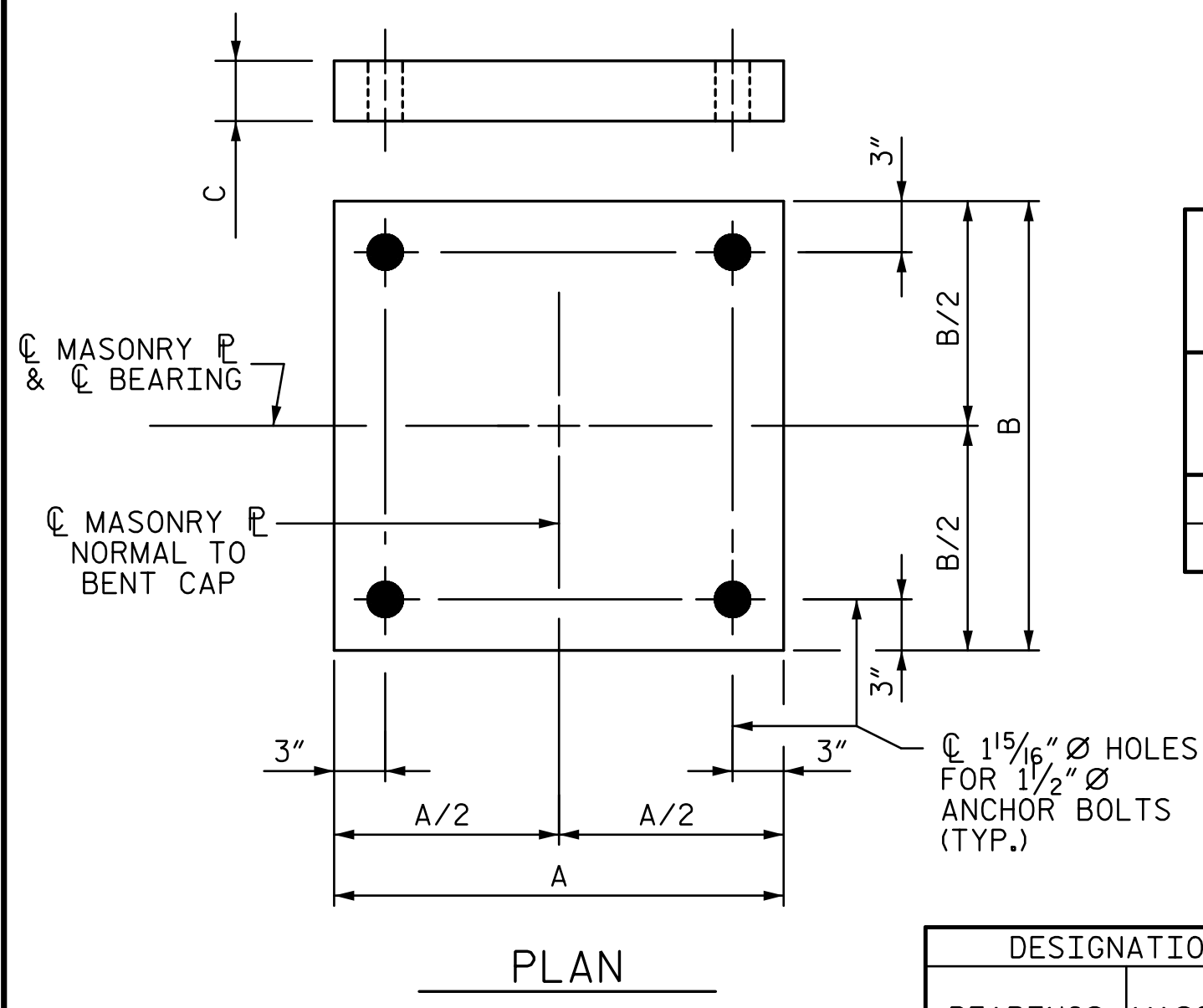
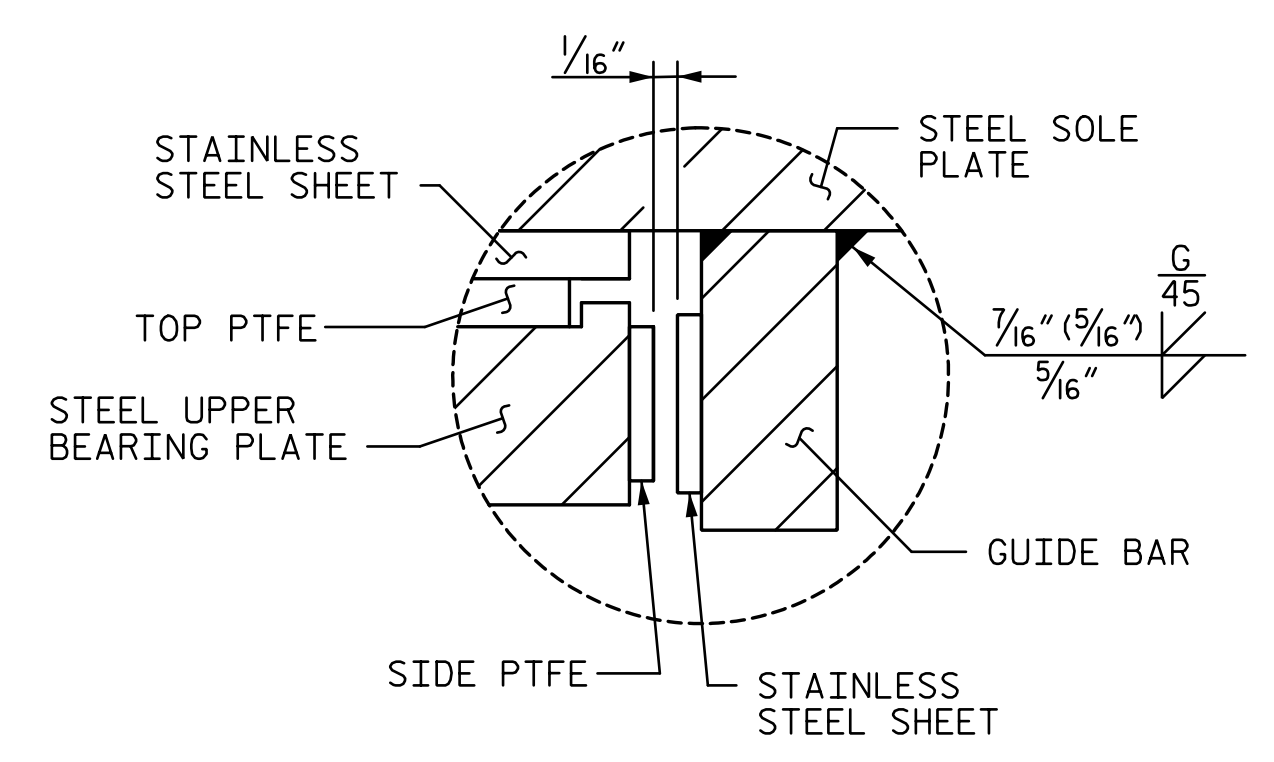
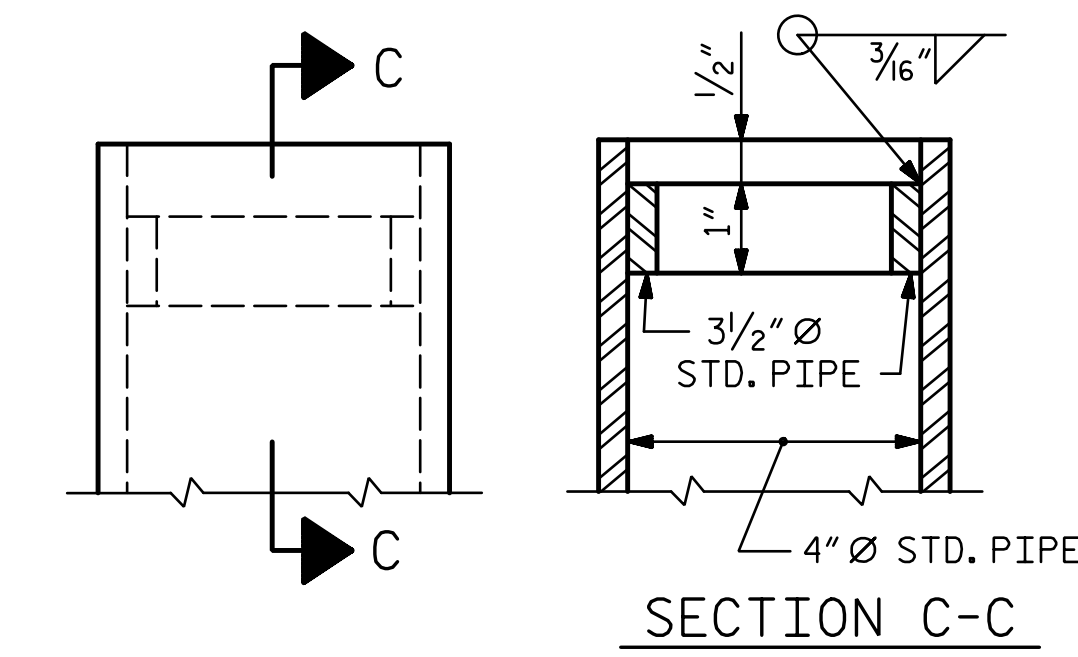
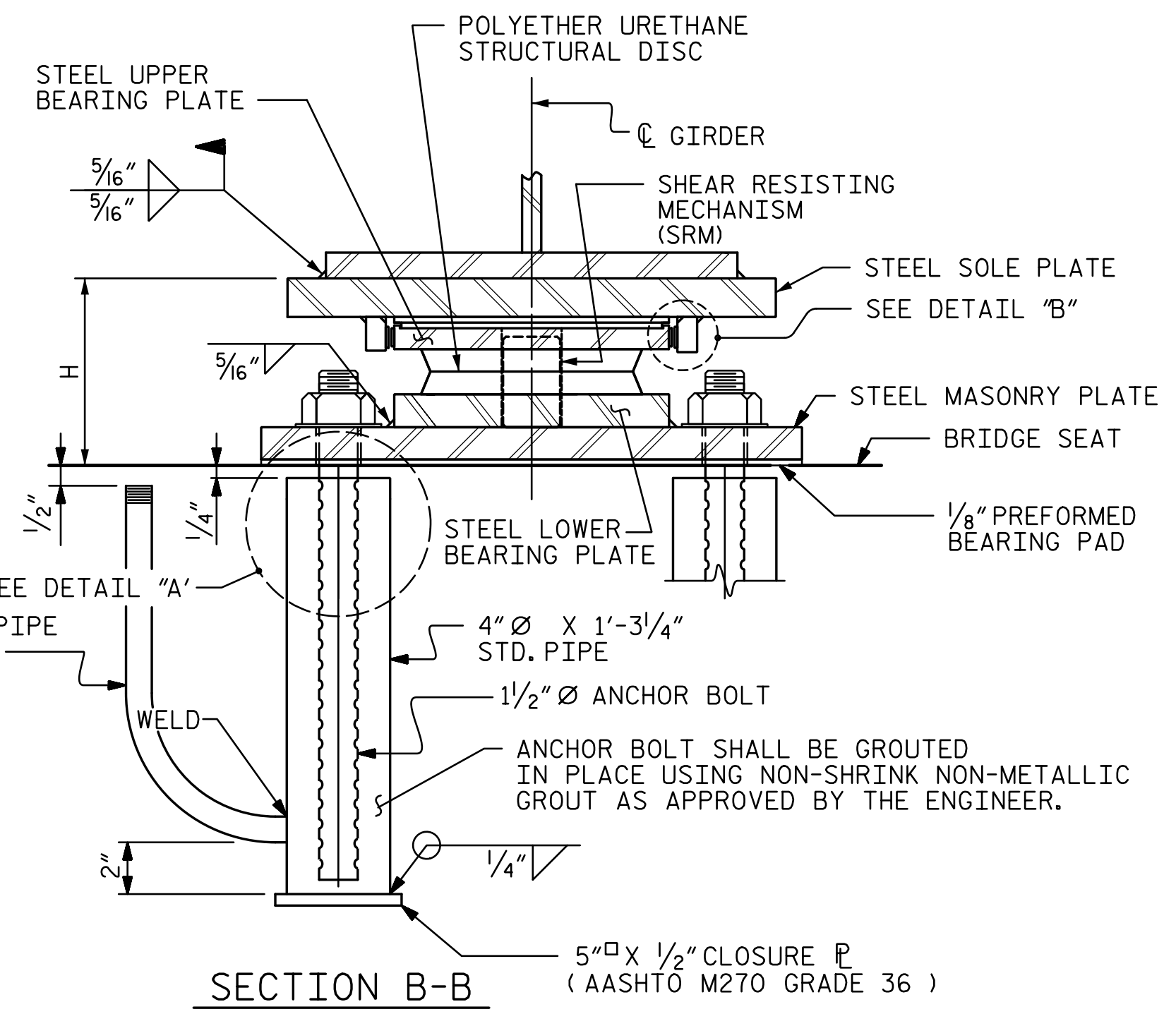
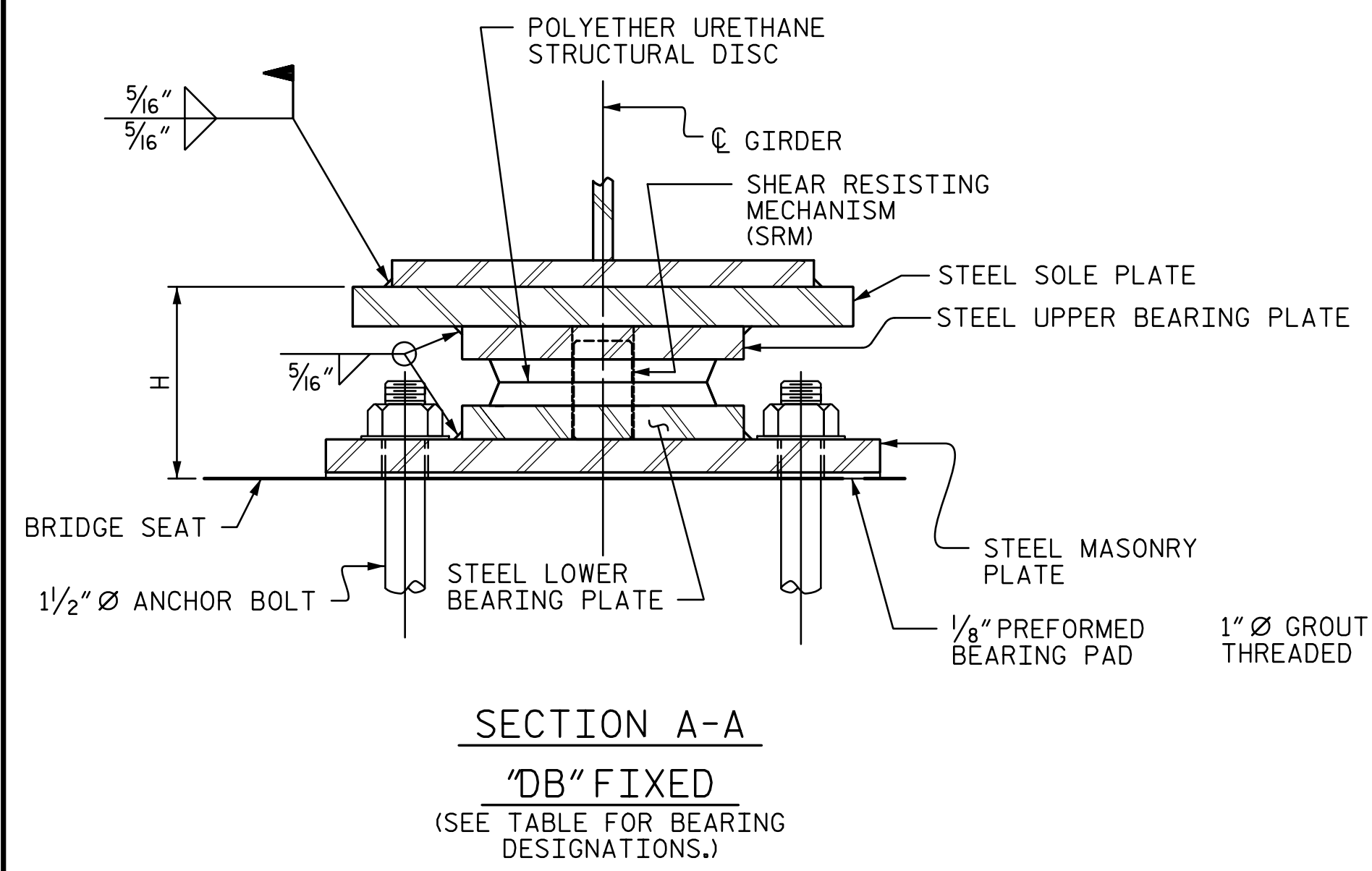
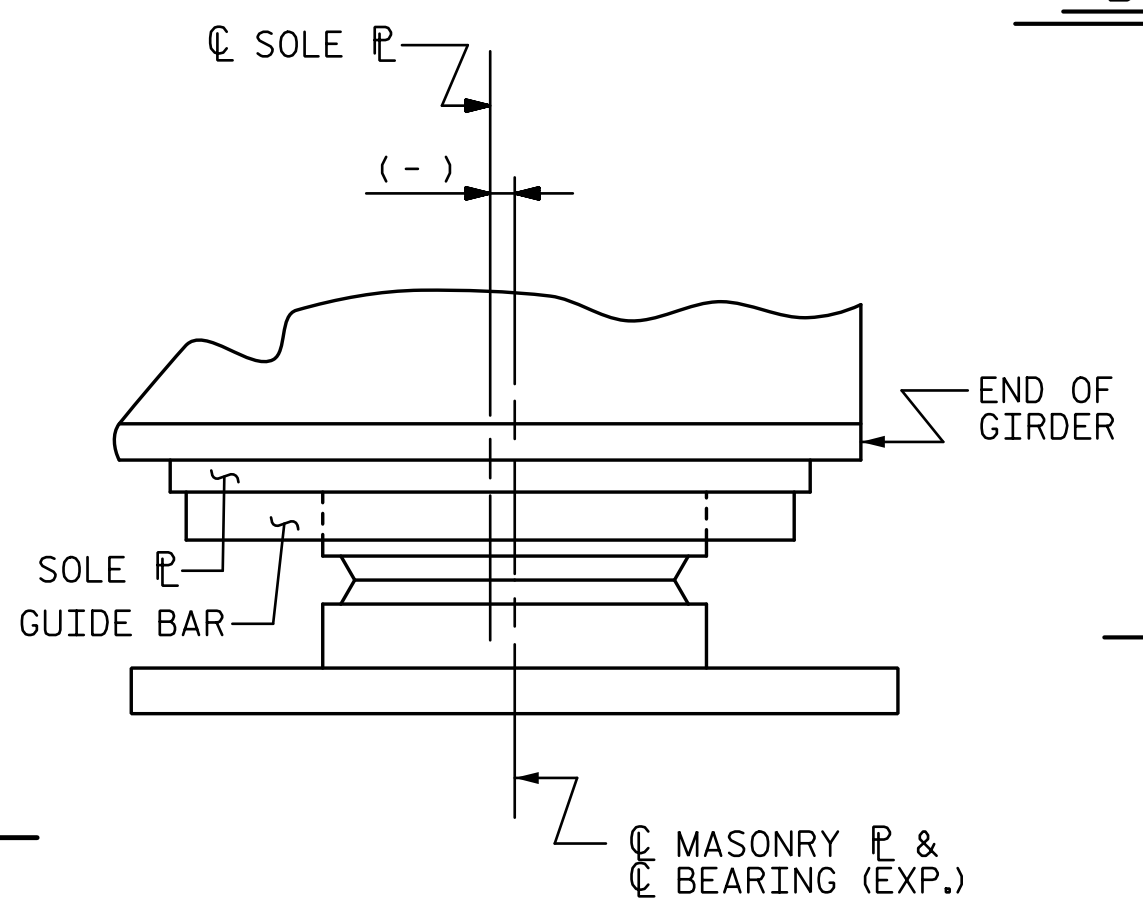


PLATE SETTING DATA (EXPANSION DISC BEARINGS)				
LOCATION	TEMPERATURE AT TIME OF SETTING			*
	45° F	60° F	90° F	
END BENT 1	-1/4"	0	1/2"	7/16"
END BENT 2	-1/4"	0	1/2"	3/4"

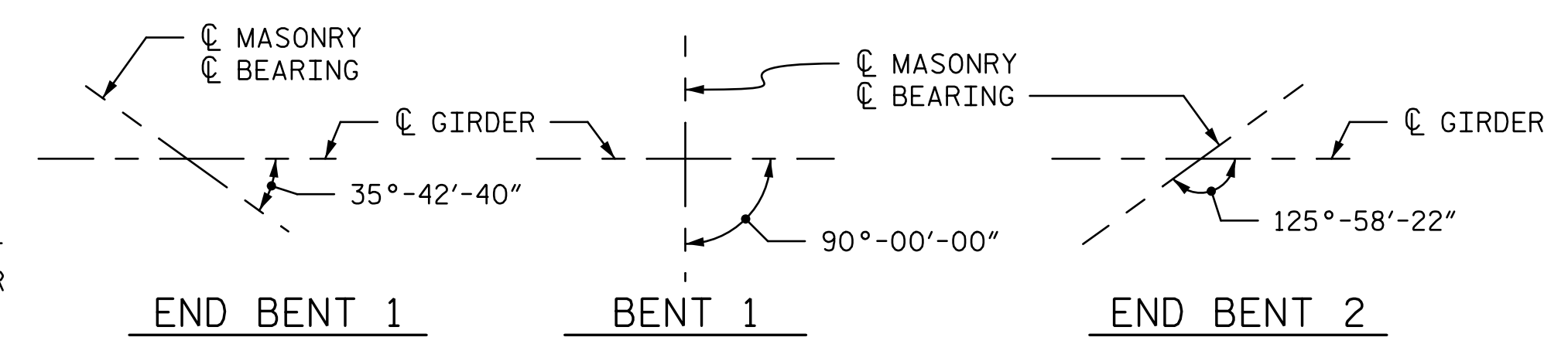
* CORRECTION FOR END ROTATION DUE TO WEIGHT OF SLAB AND COMPOSITE DEAD LOAD.

TEMPERATURE SETTING DETAIL



DETAIL "A"

DETAIL "B"



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

DESIGNATIONS		LOCATION	NUMBER OF BEARINGS	DIMENSIONS				TOP SLOPE (%)	LOADS AND MOVEMENT		FACTORED HORIZONTAL LOAD (KIPS)	ONE-WAY MOVEMENT (IN.)	
BEARINGS	MASONRY P			BEARING H (IN.)	MASONRY PLATE A (IN.)	MASONRY PLATE B (IN.)	SOLE PLATE C (IN.)		UNFACTORED VERTICAL LOAD (KIPS)	FACTORED HORIZONTAL LOAD (KIPS)			
DB1 (EXP.)	M1	END BENT 1	5	6"	27	27	3/4	0.126	DC 26	DW 20	LL+IM 149.5	72.0	2 1/4"
DB2 (FIXED)	M2	BENT 1	5	7 3/4"	32	32	1 1/4	-0.669	DC 38	DW 32	LL+IM 319.7	240.0	0
DB3 (EXP.)	M1	END BENT 2	5	6"	27	27	3/4	-1.534	DC 26	DW 20	LL+IM 149.5	72.0	2 1/4"

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

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SEAL 40317
 ENGINEER
 TONY R. LAWS, JR.
 12/13/2016

SUPERSTRUCTURE

DISC BEARING DETAILS

(SITE 6R)

SHEET NO. **S8-21**
 TOTAL SHEETS **44**

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

12/13/2016 7:03:31 PM R:\408_041_R2707C_SMLI_DBD_S8-21.dgn