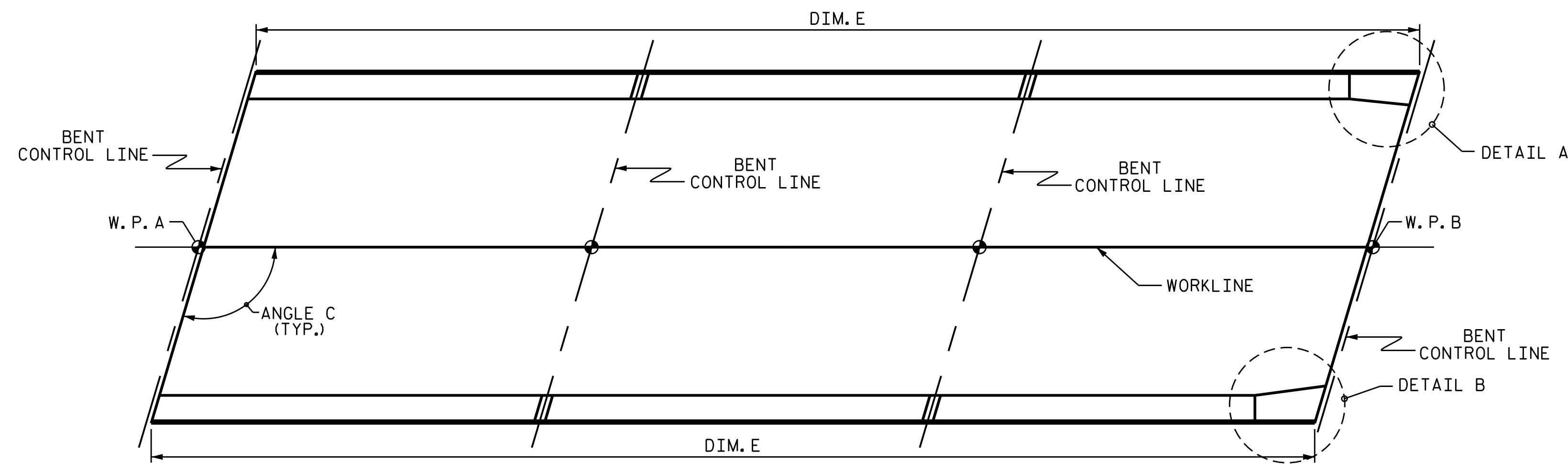


NOTES:

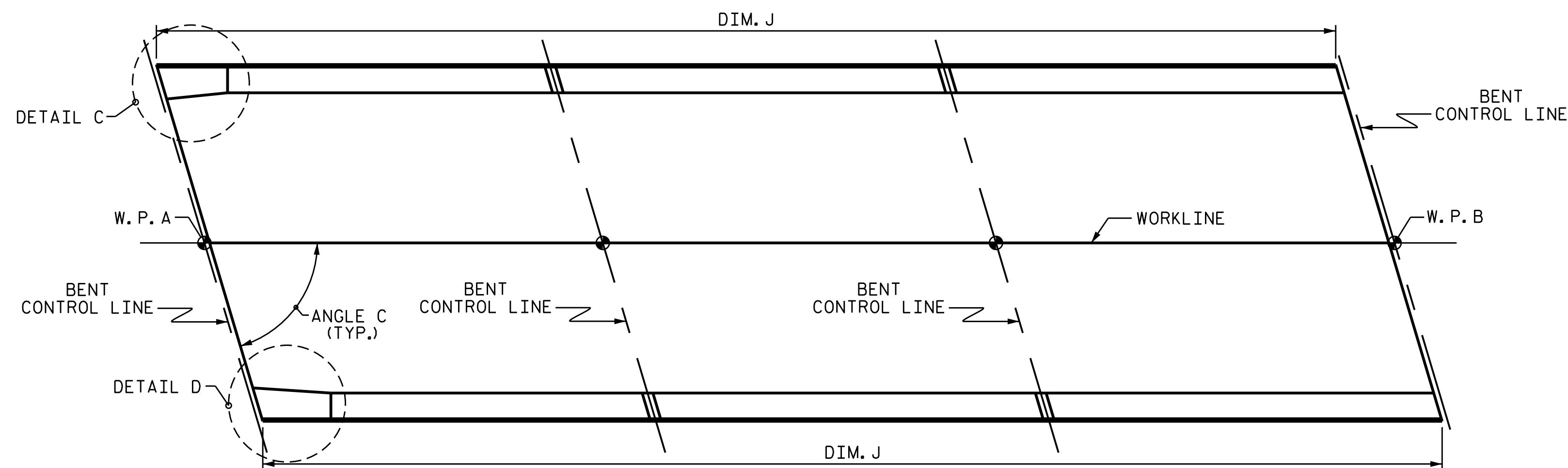
THE CONTRACTOR HAS THE OPTION OF CASTING THE VERTICAL CONCRETE BARRIER RAIL ON THE CORED SLAB UNITS PRIOR TO PLACING THE CORED SLAB UNITS ON THE PRECAST CAPS. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY AND STABILITY OF THE EXTERIOR UNITS WITH THE CAST IN PLACE RAIL AT ALL TIMES. THE CONTRACTOR SHALL SUBMIT PROPOSED FABRICATION AND CONSTRUCTION PROCEDURES INCLUDING BUT NOT LIMITED TO DETAILS FOR THE BARRIER RAIL FORMWORK, DETAILS FOR PLUMB BARRIER RAIL FACES AFTER ERECTION TO COMPENSATE FOR SUPERELEVATION AND DEAD LOAD DEFLECTION AND CAMBER, HANDLING, PLACING, ALIGNING THE POST TENSION DUCTS, AND POST TENSIONING OF THE EXTERIOR UNITS WITH BARRIER RAILS TO THE ENGINEER FOR APPROVAL. ALL COST ASSOCIATED WITH REPAIRING DAMAGED OR REPLACING REJECTED BEAMS DUE TO DAMAGE WILL BE AT THE EXPENSE OF THE CONTRACTOR.



PLAN OF TAPERED RAILS - SPANS A THRU Y

TAPERED RAIL DIMENSIONS SPANS A THRU Y								
SPAN GROUP	W. P. A	W. P. B	ANGLE C	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
A THRU D	W. P. #1	W. P. #5	106°-36'-1.2"	5'-3 ⁵ / ₈ "	1'-2 ⁵ / ₈ "	5'-3"	1'-2 ³ / ₈ "	198'-9 ¹ / ₈ "
E THRU G	W. P. #5	W. P. #8	105°-36'-19.7"	4'-8 ⁷ / ₁₆ "	1'-3 ⁵ / ₁₆ "	4'-9"	1'-3 ³ / ₄ "	149'-10 ³ / ₈ "
H THRU J	W. P. #8	W. P. #11	103°-1'-18.4"	3'-9 ⁹ / ₁₆ "	1'-3 ⁵ / ₁₆ "	3'-9"	1'-3 ¹ / ₈ "	149'-10 ³ / ₈ "
K THRU M	W. P. #11	W. P. #14	100°-25'-2.7"	2'-11 ¹⁵ / ₁₆ "	1'-2 ³ / ₄ "	3'-0"	1'-2 ³ / ₈ "	149'-10 ³ / ₈ "
N THRU P	W. P. #14	W. P. #17	97°-48'-47.0"	2'-0 ¹⁵ / ₁₆ "	1'-2 ³ / ₁₆ "	2'-0"	1'-2 ¹ / ₁₆ "	149'-10 ³ / ₈ "
Q THRU S	W. P. #17	W. P. #20	95°-12'-31.3"	1'-2 ³ / ₄ "	1'-1 ¹ / ₁₆ "	1'-3"	1'-1 ¹ / ₈ "	149'-10 ³ / ₈ "
T THRU V	W. P. #20	W. P. #23	92°-36'-15.7"	NO TAPER	NO TAPER	NO TAPER	NO TAPER	149'-10 ³ / ₈ "
W THRU Y	W. P. #23	W. P. #26	90°-00'-00"	NO TAPER	NO TAPER	NO TAPER	NO TAPER	149'-10 ³ / ₈ "

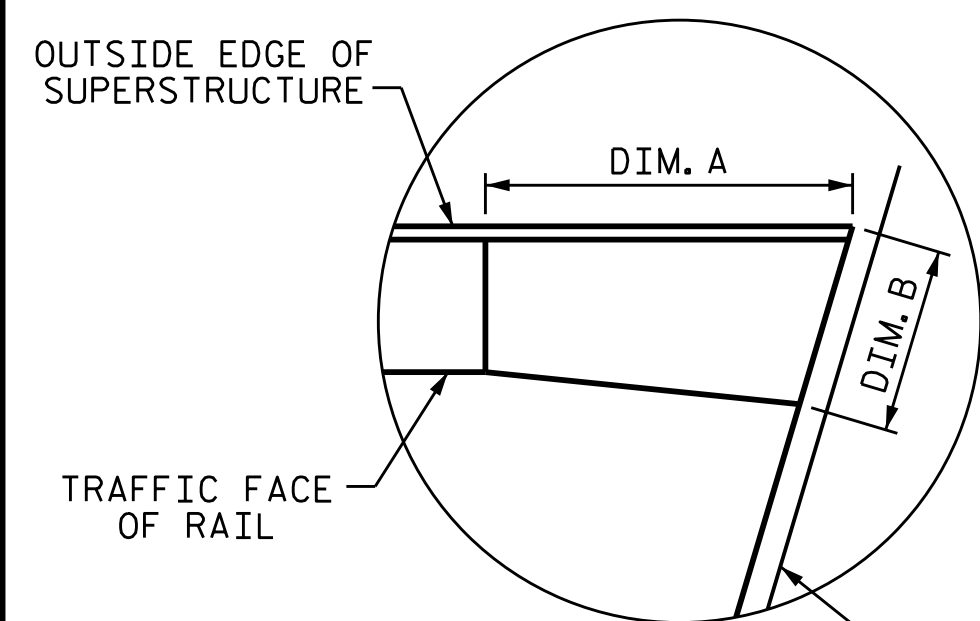
DIMENSIONS SHALL BE MEASURED AT THE TOP OF THE CORED SLAB UNITS



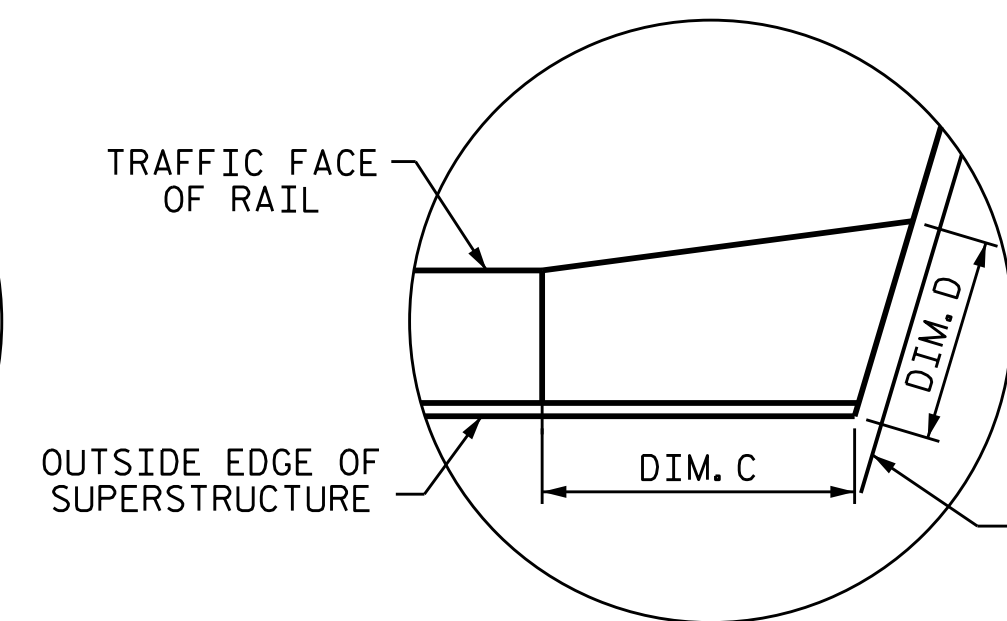
PLAN OF TAPERED RAILS - SPANS Z THRU UU

TAPERED RAIL DIMENSIONS SPANS Z THRU UU								
SPAN GROUP	W. P. A	W. P. B	ANGLE C	DIM. F	DIM. G	DIM. H	DIM. I	DIM. J
Z THRU BB	W. P. #26	W. P. #29	87°-23'-44.3"	NO TAPER	NO TAPER	NO TAPER	NO TAPER	149'-10 ³ / ₈ "
CC THRU EE	W. P. #29	W. P. #32	84°-47'-28.7"	1'-2 ³ / ₄ "	1'-1 ¹ / ₁₆ "	1'-3"	1'-1 ⁹ / ₁₆ "	149'-10 ³ / ₈ "
FF THRU HH	W. P. #32	W. P. #35	82°-11'-13.0"	2'-1"	1'-2 ³ / ₁₆ "	2'-0"	1'-2 ¹ / ₁₆ "	149'-10 ³ / ₈ "
II THRU KK	W. P. #35	W. P. #38	79°-34'-57.3"	2'-11 ¹ / ₂ "	1'-2 ³ / ₄ "	3'-0"	1'-2 ³ / ₁₆ "	149'-10 ³ / ₈ "
LL THRU NN	W. P. #38	W. P. #41	77°-11'-37.1"	3'-9 ⁹ / ₁₆ "	1'-3 ¹ / ₈ "	3'-9"	1'-3"	149'-10 ³ / ₈ "
OO THRU QQ	W. P. #41	W. P. #44	76°-44'-7.2"	NO TAPER	NO TAPER	NO TAPER	NO TAPER	149'-10 ³ / ₈ "
RR THRU UU	W. P. #44	W. P. #48	76°-49'-51.6"	NO TAPER	NO TAPER	NO TAPER	NO TAPER	198'-9 ³ / ₈ "

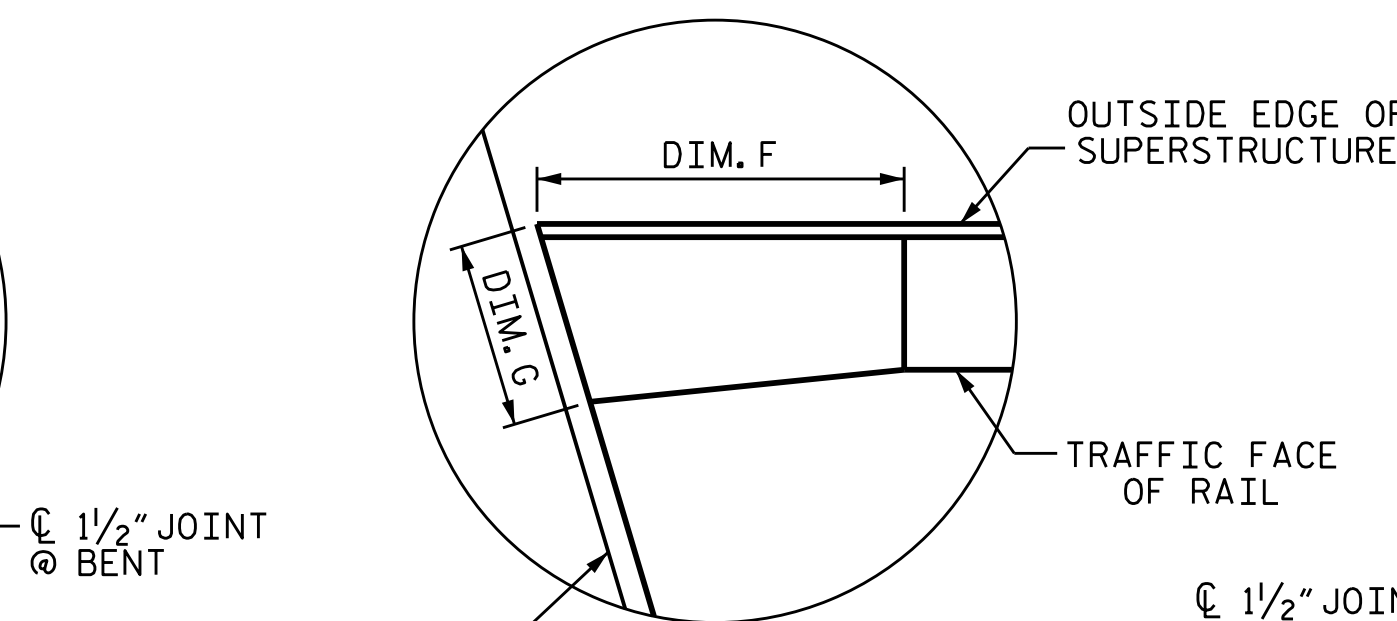
DIMENSIONS SHALL BE MEASURED AT THE TOP OF THE CORED SLAB UNITS



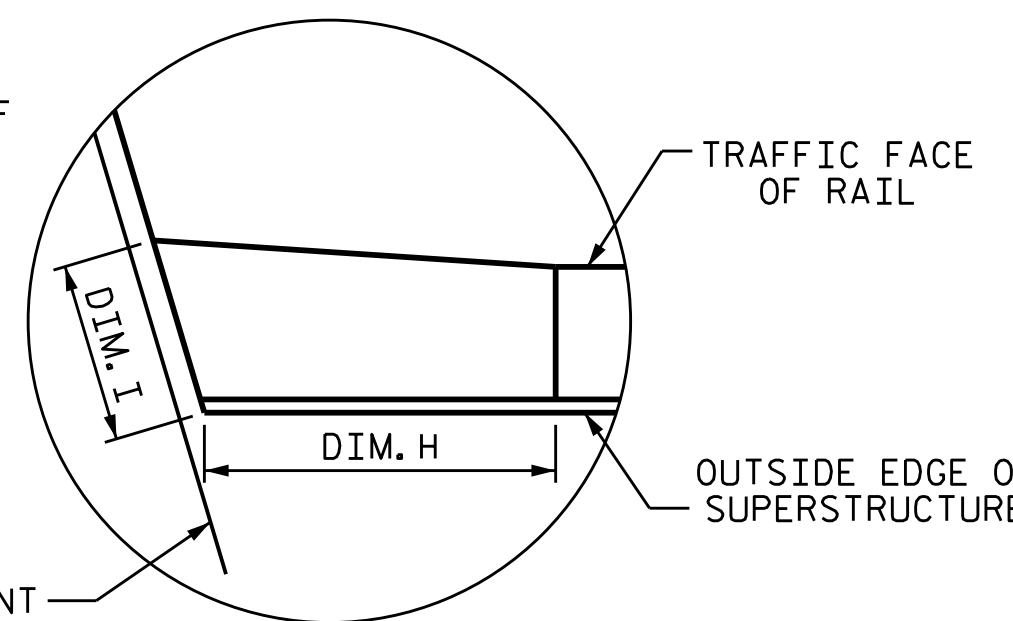
DETAIL A



DETAIL B



DETAIL C



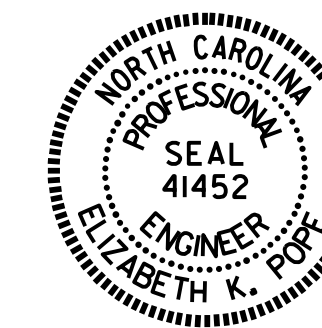
DETAIL D

PROJECT NO. B-2500AB

DARE COUNTY

STATION: 3170+75.00 -L-

SHEET 11 OF 11



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

VERTICAL CONCRETE BARRIER RAIL

ASSEMBLED BY : E. K. POPE, P.E. DATE : 6/15
CHECKED BY : T. M. GARRISON, P.E. DATE : 6/15
DRAWN BY : DGE 5/09
CHECKED BY : BCH 6/09

REV. 11/14 MAA/TMG

03-AUG-2015 14:53
R:\Structures\Final Plans\dgn\B2500AB.SMU.CS.dgn
tgarrison

DocuSigned by:
Elizabeth K. Pope
FA3E85D1C9A440
8/3/2015

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-21
1			3			TOTAL SHEETS
2			4			44