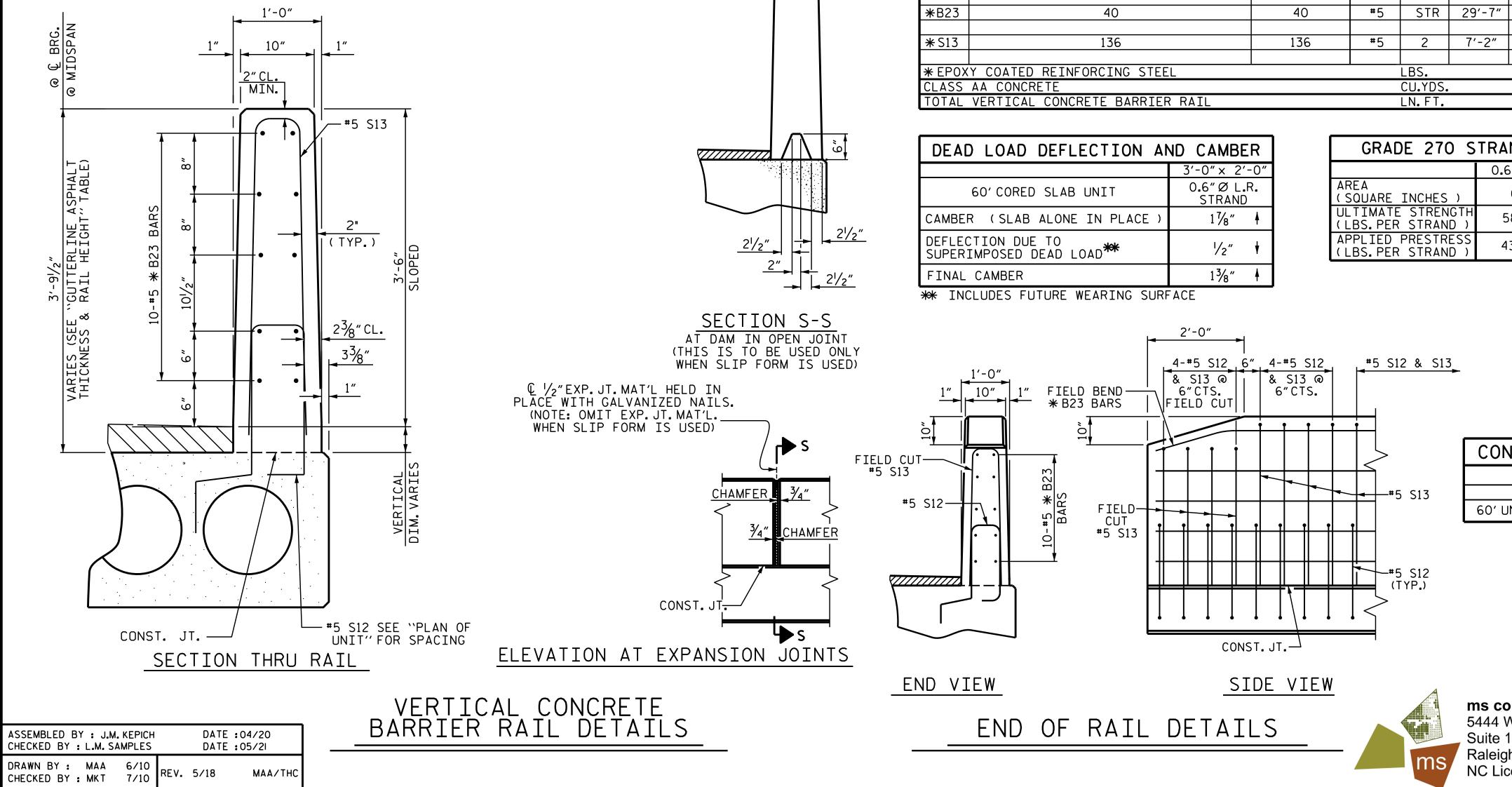


				RED SLA	L FOR O B UNIT		
				EXTERI	OR UNIT	INTERI	OR UNIT
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT	LENGTH	WEIGHT
B20	6	#4	STR	21'-2"	85	21'-2"	85
S10	8	<b>#</b> 5	3	4'-9"	40	4'-9"	40
S11	124	#4	3	5′-10″	483	5′-10″	483
<b>*</b> S12	68	<b>#</b> 5	1	5′-7″	396		
S14	4	#4	3	5′-7″	15	5′-7″	15
S15	4	<b>#</b> 5	3	7'-1"	30	7'-1"	30
REINFORCING STEEL LBS			5.	653		653	
	(Y COATE NFORCINO		LBS	S	396		
	P.S.I. CO				10.2		10.2
0.6#0	L.R. STR		Nc		24		24

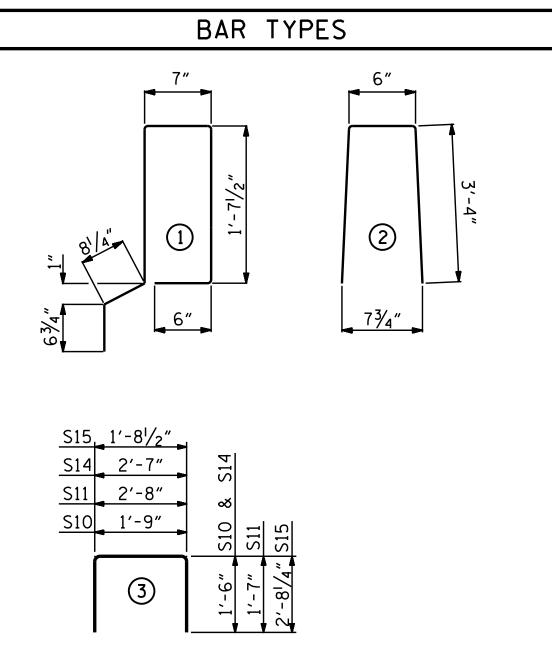
ELASTOMER IN ALL BEARINGS SHALL BE 60 DUROMETER HARDNESS.

GUTTERLINE ASP	HALT THICKNESS & RAI	L HEIGHT
	ASPHALT OVERLAY THICKNESS @ MID-SPAN	RAIL HEIGHT @ MID-SPAN
60' UNITS	2 <sup>1</sup> / <sub>8</sub> "	3'-8 <mark>'/</mark> 8″



\$\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$

CORED	SLABS	S REQ	UIRED
	NUMBER	LENGTH	TOTAL LENGTH
60'UNIT			
EXTERIOR C.S.	2	60'-0"	120'-0"
INTERIOR C.S.	8	60'-0"	480'-0"
TOTAL	10		600'-0"



	BAR TYPES	NOTES
RIAL FOR ONESLAB UNITXTERIOR UNITNGTHWEIGHTLENGTHWEIGHT		ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
'-2"     85     21'-2"     85       '-9"     40     4'-9"     40       '-10"     483     5'-10"     483		ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS.
'-7"     396       '-7"     15       5'-7"     15		RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS.
7'-1" 30 7'-1" 30		THE $2\frac{1}{2}^{\prime\prime}$ Ø DOWEL HOLES AT FIXED ENDS OF SLAB SECTIONS SHALL BE FILLED WITH NON-SHRINK GROUT.
653 653	6" 7 <sup>3</sup> / <sub>4</sub> "	THE BACKER RODS SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER.SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS.
396 10.2 10.2 24 24	$\frac{515}{514} \frac{1'-8^{1}/2''}{2'-7''} = 514$	WHEN CORED SLABS ARE CAST, AN INTERNAL HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS.AT LEAST SIX WEEKS PRIOR TO CASTING CORED SLABS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM.IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED.
ABS REQUIRED	<u>S11 2'-8"</u> & <u>S10 1'-9"</u> <u>OI II SIS</u>	THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN THE REQUIRED STRENGTH SHOWN IN THE ``CONCRETE RELEASE STRENGTH'' TABLE.
BER LENGTH TOTAL LENGTH	2 <sup>2,-81</sup> /4	ALL REINFORCING STEEL IN VERTICAL CONCRETE BARRIER RAILS SHALL BE EPOXY COATED.
60'-0" 480'-0" 600'-0"	ALL BAR DIMENSIONS ARE OUT TO OU	JT PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT ENDS.
		APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS.
BILL OF MATERIAL BAR BARS PER PAIR OF EX 60' UNIT *B23 40 *S13 136 * EPOXY COATED REINFORCING CLASS AA CONCRETE TOTAL VERTICAL CONCRETE BAR		TH       WEIGHT         JOINTS. ONLY ONE CONTRACTION JOINT IS REQUIRED AT MIDPOINT OF         BARRIER RAIL SEGMENTS LESS THAN 20 FEET IN LENGTH AND NO         CONTRACTION JOINTS ARE REQUIRED FOR THOSE SEGMENTS LESS THAN         10       FEET IN LENGTH.         7"       1234         FLAME CUTTING OF THE TRANSVERSE POST-TENSIONING STRAND IS NOT
DEAD LOAD DEFLECTION	N AND CAMBER GRADE 270 STR	RANDS FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.
		0.6"ØL.R. THE PERMITTED THREADED INSERTS ARE DETAILED AS AN OPTION FOR THE CONTRACTOR TO ATTACH FALSEWORK AND FORMWORK DURING CONSTRUCTION.
60' CORED SLAB UNIT CAMBER (SLAB ALONE IN PLAC DEFLECTION DUE TO	STRAND (SQUARE INCHES)	0.217THE PERMITTED THREADED INSERTS IN THE EXTERIOR UNITS SHALL BE58,600SIZED BY THE CONTRACTOR, SPACED AT 4'-O"CENTERS AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF THE STANDARD SPECIFICATIONS. STAINLESS STEEL THREADED INSERTS MAY BE USED AS AN ALTERNATE.
SUPERIMPOSED DEAD LOAD	1 <sup>3</sup> / <sub>8</sub> "	THE PERMITTED THREADED INSERTS SHALL BE GROUTED BY THE CONTRACTOR IMMEDIATELY FOLLOWING REMOVAL OF THE FALSEWORK.
** INCLUDES FUTURE WEARING	SURFACE	THE COST OF THE PERMITTED THREADED INSERTS SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST UNITS.
END VIEW	#5 S13 60'	ONCRETE RELEASE STRENGTH       PROJECT NO.       BR-0109         UNIT       PSI       YADKIN       COUNTY         UNITS       4800       STATION:       28+54.00       -L-         SHEET 3 of 3       STATE OF NORTH CAROLINA       DEPARTMENT OF TRANSPORTATION         STANDARD       3'-O''X       2'-O''         STANDARD       3'-O''X       2'-O''         PRESTRESSED CONCRETE       CORED SLAB UNIT
END OF RAI	I DETATIS	consultants, inc.     037031       4 Wade Park Blvd.     Isheet NO.
	Juint	4 Vvade Park Blvd.       From Stress and Stress

$2^{1/2''}$ $2^{1/2''}$ $2^{1/2''}$	

DEAD LOAD DEFLECTION AND CAMBER			
	3'-0" × 2'-0"		
60' CORED SLAB UNIT	0.6″ØL.R. STRAND		
CAMBER (SLAB ALONE IN PLACE)	1 <b>7⁄8″</b> ∮		
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	<sup>1</sup> ∕2″ ↓		
FINAL CAMBER	1 <sup>3</sup> ∕8″ ∳		

GRADE 270 STRANDS			
	0.6″ØL.R.		
AREA (SQUARE INCHES)	0.217		
ULTIMATE STRENGTH (LBS.PER STRAND)	58,600		
APPLIED PRESTRESS (LBS.PER STRAND )	43,950		

 Raleigh, NC 27607
 مارسدو ۲۱. عمله 5/10/2022

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## NOTES

STD.NO.24PCS3\_30\_90S

total sheets 14