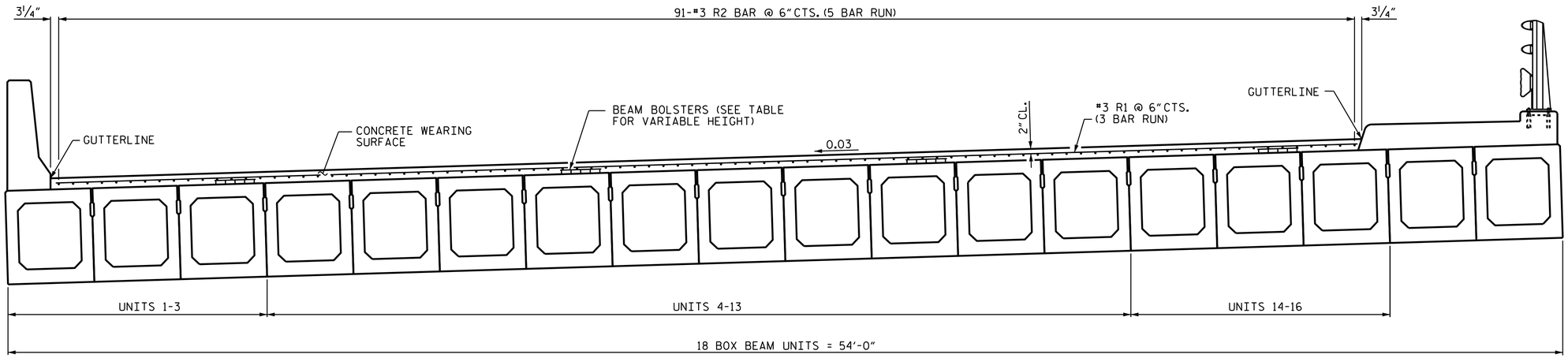


BILL OF MATERIAL

CONCRETE WEARING SURFACE

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
✱ R1	645	#3	STR	20'-9"	5032
✱ R2	455	#3	STR	22'-6"	3849

✱ EPOXY COATED REINF. STEEL = 8,881 LBS

CONCRETE WEARING SURFACE = 4,908 SQ. FT.

FOR GROOVING BRIDGE FLOOR QUANTITY, SEE SHEET NO. S-77

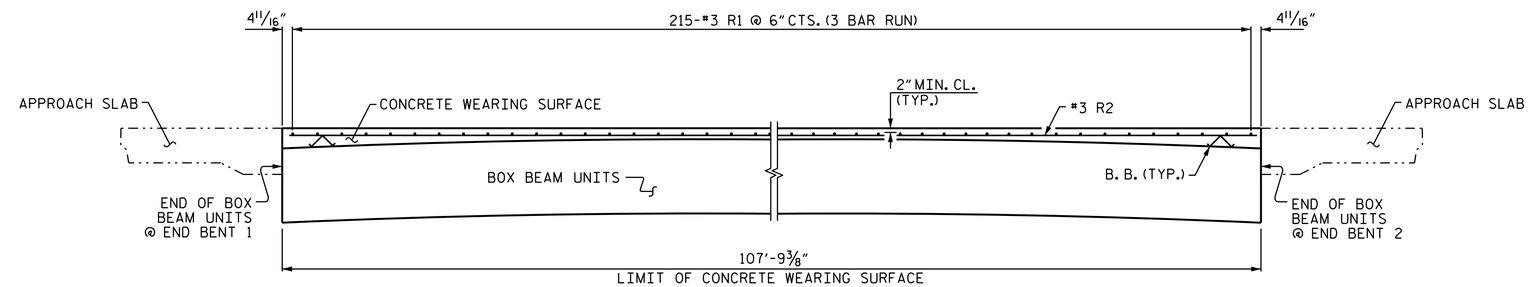
SPLICE LENGTH CHART	
BAR SIZE	EPOXY COATED
#3	1'-3"

REINFORCING STEEL AND BEAM BOLSTER HEIGHTS

BEAM AND SLAB BOLSTER HEIGHTS ARE BASED ON PREDICTED FINAL CAMBER AND THEORETICAL GRADE LINE ELEVATIONS AND VARY BETWEEN ℄ BEARING AND MID-SPAN.

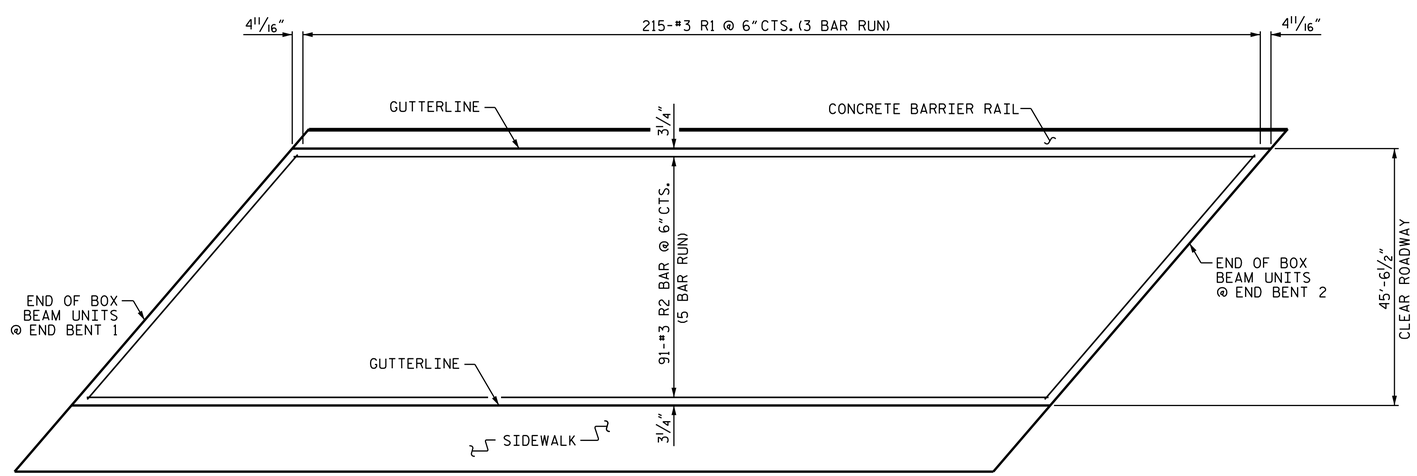
BEAM BOLSTER HEIGHT			
LOCATION	UNITS 1-5	UNITS 6-10	UNITS 11-13
℄ BRG. @ END BENT 1	2¼"	2¼"	2¼"
MIDSPAN	2"	¾" ✱✱	1¼"
℄ BRG. @ END BENT 2	4"	3¼"	2½"

✱✱ USE SLAB BOLSTER



ELEVATION

THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT THE CONCRETE WEARING SURFACE THICKNESS WILL VARY DIFFERENTLY ALONG EACH SIDE. THE BEAM BOLSTER HEIGHTS SHOWN IN THE TABLE ONLY REFLECT THE ESTIMATED REQUIREMENTS AT THOSE LOCATIONS. OTHER BEAM BOLSTER HEIGHTS MIGHT BE REQUIRED TO MAINTAIN THE PROPER CLEARANCES, ETC.



PLAN

NOTES:

PLACEMENT OF THE CONCRETE WEARING SURFACE SHALL OCCUR AFTER CASTING CONCRETE BARRIER RAIL AND SIDEWALK. THE COST OF THE REINFORCING STEEL CAST WITH THE CONCRETE WEARING SURFACE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE WEARING SURFACE. FOR CONCRETE WEARING SURFACE, SEE SPECIAL PROVISIONS.

ALL REINFORCING STEEL FOR THE CONCRETE WEARING SURFACE SHALL BE EPOXY COATED.

PROJECT NO. U-3615B
GUILFORD COUNTY
STATION: 233+87.56 -L-

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
SUPERSTRUCTURE

CONCRETE WEARING SURFACE DETAILS
RIGHT LANE

NORTH CAROLINA PROFESSIONAL SEAL 16301 ENGINEER TING HSIUNG FANG

DocuSigned by: Ting H. Fang
E720884009774 35...
12/3/2014

REVISIONS							SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:		S-78
1			3				TOTAL SHEETS
2			4				91

DRAWN BY : P. K. NEWTON DATE : 10/10/14
CHECKED BY : T. H. FANG DATE : 10/13/14
DESIGN ENGINEER OF RECORD: P. K. NEWTON DATE : 10/14/14

03-DEC-2014 12:06
K:\TIPProjects-U\U3615b\Structures\Plans\Str3\Final plans\u3615b3_sd_sup.dgn
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STR. #3