## NOTES:

REPAIR LOCATIONS AND ESTIMATED QUANTITIES ARE GIVEN WITH THE BEST FOR CON INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE DRAWINGS SHEETS.

ARE DEEMED NECESSARY BY THE ENGINEER, THE ENGINEER WILL NOTE ON THE DRAWINGS THE APPROXIMATE LOCATIONS AND DESCRIPTION OF THE REPAIRS SHOTCRE AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE TABLE ABOVE.

APPROVA

CRACKING LOCATIONS AND QUANTITIES FOR LOCATIONS DESCRIBED AS "SCATTERED THROUGHOUT" IN THE INSPECTION REPORT ARE BASED ON THE BEST INFORMATION AVAILABLE. THE ENGINEER AND CONTRACTOR SHALL IDENTIFY AND REPAIR ALL CRACKS >= 1/16" AS DESCRIBED IN THE SPECIAL PROVISIONS.

AVERAGE CONCRETE COVER IS EXPECTED AS FOLLOWS;

DECK & DIAPHRAGMS: 21/2"

GIRDERS:  $2\frac{1}{2}$ " to rebar and  $1\frac{1}{2}$ " to P/S strands

FOR CONCRETE AND SHOTCRETE REPAIRS, SEE "CONCRETE RESTORATION DETAILS" SHEETS.

SHOTCRETE REPAIRS MAY BE REPLACED WITH CONCRETE REPAIRS WITH THE APPROVAL OF THE ENGINEER.

REPAIRS TO PRESTRESSED CONCRETE GIRDERS, SEE SPECIAL PROVISIONS FOR "PRESTRESSED CONCRETE GIRDERS WITH THERMAL SPRAY ANODE".

ADDITIONAL QUANTITIES OF CONCRETE REPAIR AREAS ARE ANTICIPATED. DUE TO LACK OF INFORMATION, ALL AREAS ARE NOT KNOWN. QUANTITY INCLUDES CONTINGENCIES AND ARE ANTICIPATED TO BE SUFFICIENT FOR ACTUAL QUANTITIES ENCOUNTERED.

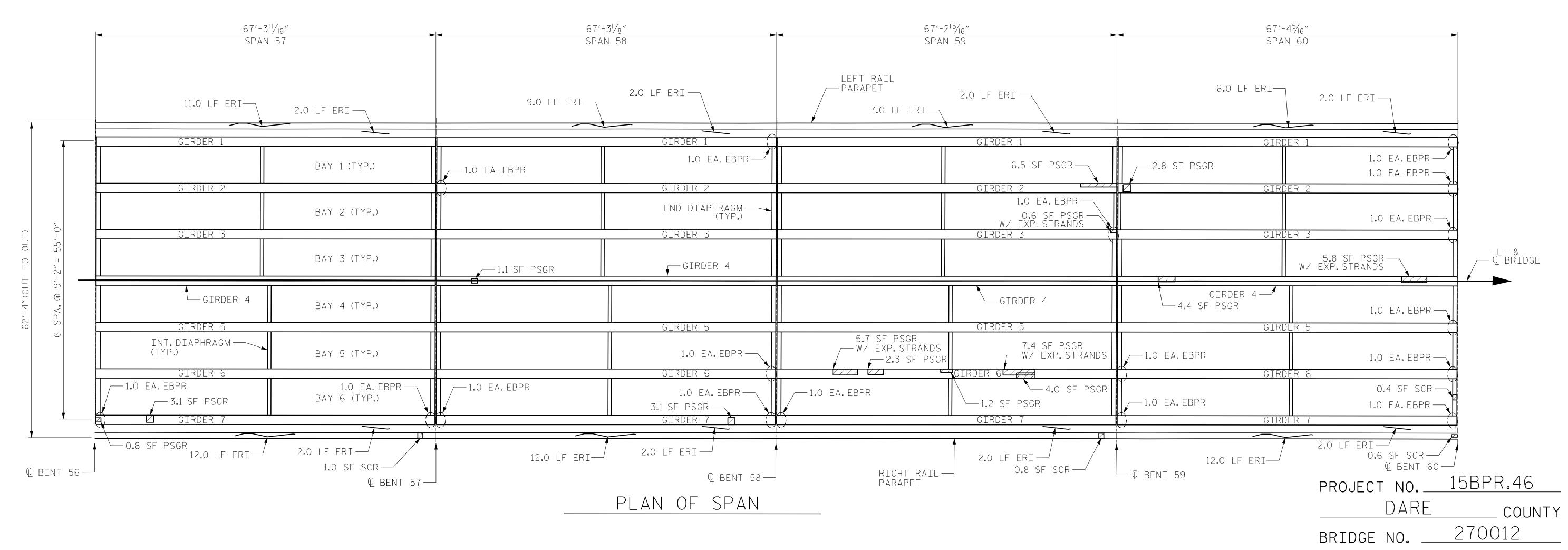
CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL MISSING AND/OR DAMAGED RAIL COMPONENTS, AS WELL AS TIGHTENING ALL LOOSE RAIL CONNECTIONS.

FOR 2-BAR METAL RAIL REPAIRS, SEE SPECIAL PROVISIONS.

FOR BEARINGS, SEE BEARING REPLACEMENT SHEETS.

LEGEND		AS-BUILT REPAIR QUANTITY TABLE				
P/S CONC.GIRDER REPAIR (PSGR)			QUANTITIES			
			ESTIMATE		ACTUAL	
	SHOTCRETE REPAIR (SCR)	SHOTCRETE REPAIRS	AREA SQ.FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU.FT.
	EPOXY RESIN INJECTION (ERI)	UNDERSIDE OF DECK & OVERHANG				
	ELASTOMERIC BEARING PAD REPLACEMENT (EBPR)	DIAPHRAGMS	0.4	0.2		
		RAILS	2.4	1.2		
		P/S CONC.GIRDER REPAIRS	AREA SQ.FT.	VOLUME CU. FT.	AREA SQ. FT.	VOLUME CU. FT.
		GIRDERS	49.3	24.7		
		EPOXY RESIN INJECTION	LIN.FT.		LIN. FT.	
		DECK, DIAPHRAGMS, AND PARAPETS	85.0			
		GIRDERS				

VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS AFTER REMOVAL OF UNSOUND CONCRETE.MINIMUM OF 1"BEHIND REBAR AND MINIMUM 2"CLEARANCE TO SAWCUT.FOR REPAIR DETAILS, SEE "CONCRETE RESTORATION DETAILS" SHEETS.



DocuSigned IN CARO/
JACOL SUNTA CARO/
29900C8054E990F0ESS/ON
SEAL
043777
OB H
DOCUSIGNED TO THE PARTY OF THE

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

SUPERSTRUCTURE REPAIRS

SPANS 57 THRU 60

SHEET NO

S-40

TOTAL SHEETS

137

DATE:

KISINGER CAMPO

& ASSOCIATES
301 FAYETTEVILLE ST., SUITE 1500
RALEIGH, NC 27601 (919) 882-7839
NC FIRM LICENSE: C-1506

REVISIONS

NO. BY: DATE: NO. BY:

3

4

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

& ASSOCIATES
301 FAYETTEVILLE ST., SUITE 1500
RALEIGH, NC 27601 (919) 882-7839
NC FIRM LICENSE: C-1506

DESIGN ENGINEER OF RECORD: JACOB H. DUKE DATE: 10/1/2020

10/19/2021
15BPR.46\_SMU\_DUR18\_270012.dgn

\_ DATE : 9/30/2020

DATE : 10/1/2020

ALLEN J. MCSWAIN

JACOB H. DUKE

DRAWN BY : \_\_\_

CHECKED BY : \_\_