


DRAWN BY :	JACOB H.DUKE	
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DESIGN ENGINEER	OF RECORD:JACOB H.DUKE	DATE : <u>06/2021</u>

CONCRETE REPAIR NOTES

- 1. NEED OF CONCRETE REPAIR.
- 2. BENT.

- CHEMICALS TO REMOVE.
- 7. OF 2"CLEARANCE TO SAWCUT.
- 8.
- REINFORCEMENT PLACEMENT TOLERANCES.

LAP SI	PLICE
BAR SIZE	LAP S
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PERFORM A SOUNDING SURVEY IN THE PRESENCE OF THE ENGINEER TO IDENTIFY ALL LOCATIONS IN

GAIN CONCURRENCE ON ALL REPAIR AREAS AT EACH LOCATION PRIOR TO COMMENCING WORK AT THE

THE DETERIORATED AREAS SHOWN ON OTHER SHEETS ARE BASED ON THE BRIDGE INSPECTION REPORT, AND PARTIAL FIELD REVIEWS OF THE STRUCTURE. AS SUCH, THEY ARE FOR INFORMATIONAL PURPOSES, SUBJECT TO CHANGE BASED ON CONTINUING DETERIORATION.

GENERALLY EXTEND REPAIR AREAS 2"-3" INTO SOUND CONCRETE BEYOND EDGE OF SPALLS AND SQUARE OFF AREAS IN ACCORDANCE WITH DETAILS ON THIS SHEET.

5. THE METHOD USED TO DELINEATE THE AREAS OF UNSOUND CONCRETE TO BE REPAIRED SHALL NOT PERMANENTLY MARK THE CONCRETE, LEAVE ANY RESIDUE AFTER REMOVAL, OR REQUIRE HARSH

6. THE CONTRACTOR SHALL REMOVE THE DETERIORATED CONCRETE IN ACCORDANCE WITH THE GUIDELINES SET IN THESE NOTES, IN THE PROJECT SPECIAL PROVISIONS, AND THE STANDARD SPECIFICATIONS.

REMOVE UNSOUND CONCRETE TO THE EXTENT NECESSARY. MINIMMUM OF 1"BEHIND REBAR AND MINIMUM

REINFORCING STEEL, WHICH IS DETERMINED BY THE ENGINEER TO BE REPLACED, SHALL BE REMOVED TO A POINT WHERE IT IS SOUND. THE PATCH SHALL EXTEND A SUFFICIENT DISTANCE BEYOND THIS POINT TO DEVELOP A SPLICE LENGTH SPECIFIED IN THE TABLE ON THIS SHEET.

9. FOR REPAIRS OVER TRAFFIC AND SHALLOW REPAIRS THAT DO NOT ENGAGE REINFORCEMENT, ANCHOR PATCH MATERIAL USING 1/4" GALVANIZED BOLTS, EPOXY ANCHORED WITH 2"EMBEDMENT. PLACE BOLTS IN A 6"GRID.USE A LATEX OR EPOXY PATCH MATERIAL FOR IMPROVED BOND.

10. CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE PLACEMENT OR FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER".SEE NCDOT SPECIFICATIONS FOR ALLOWABLE

11. WHEN PROPOSED CONCRETE REPAIRS (OR DETERMINED LOCATIONS) ARE ADJACENT TO A CORNER, REPAIR ON THE ADJACENT EDGE SHOULD BE ANTICIPATED IN ADDITION TO THE AREA SHOWN ON SUBSTRUCTURE CONCRETE REPAIR SHEETS. THE CONTRACTOR IS RESPONSIBLE FOR THIS REPAIR AT ALL LOCATIONS REGARDLESS OF CALL-OUT(S) ON RESPECTIVE SHEET(S).

12. FINISH CONCRETE SURFACES IN ACCORDANCE WITH THE LATEST NCDOT SPECIFICATIONS. MATCH EXISTING FINISH ON ALL EXPOSED EDGES UNLESS OTHERWISE NOTED. A CLASS 5 FINISH COATING SHALL BE APPLIED TO THE BEAM ENDS WHERE CONCRETE REPAIRS HAVE BEEN PERFORMED, MATCHING THE COLOR OF SURROUNDING CONCRETE.

13. ALL REINFORCING STEEL SHALL BE ASTM A615-96, GRADE 60. REINFORCEMENT DETAIL DIMENSIONS ARE OUT-TO-OUT OF BARS. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCEMENT ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE. ANY DAMAGE TO EXISTING REINFORCING STEEL, DURING CONTRACTOR'S OPERATIONS, SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER AND PERFORMED AT NO ADDITIONAL COST TO THE DEPARTMENT.

14. FOR ADHESIVELY ANCHORED DOWELS OR ANCHOR BOLTS, SE STANDARD SPECIFICATIONS.

15. FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

16. FOR CONCRETE REPAIRS, SEE SPECIAL PROVISIONS.

17. FOR EPOXY RESIN INJECTION (ERI), SEE SPECIAL PROVISIONS.

e table		BRINGES.	770010 7	70012 770	1004 77008	6 770089		
SPLICE LENGTH			770090,7 770107-72	70096,77 70124 770	0098,77010)4, 770106,		
1'-9"				10121,110	130, 110131			
2'-2"				Ţ	-5930	7		
2'-7"]	FNUJEU				<u>,</u>		
3'-6"		F	<u>KORF</u> ;	<u>sun</u>	CC	UNTY		
4'-6"								
5'-10"		BRIDGE NO						
7′-4″		SHEET 1 OI	= 3					
	DEPARTMENT OF TRANSPORTATION RALEIGH CONCRETE RESTORATION DETATIS							
	KCA							
	KISINGER CAMPO	REVISIONS SHEET N		SHEET NO.				
OT_CONSIDERED	A S S O C I A I E S 301 FAYETTEVILLE ST., SUITE 1500	NO. BY:	DATE:	NO. BY:	DATE:	S6		
NLESS ALL S COMPLETED	RALEIGH, NC 27601 (919) 882-7839 NC FIRM LICENSE: C-1506	2		৩ ব্র		SHEETS 12		