

F.A.I. RTE. TOTAL SHE SHEETS NO SECTION COUNTY 94/90 * COOK 598 392 STA. TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 62302 * (1818, ETC, 2324.6-1P)R-9 1. This detail shows the termination of proposed CRC pavement that will be extended by future construction. 2. Bar splicer assemblies shall be of an IDOT approved type and shall develop In tension at least 125 percent of the yield strength of the lapped reinforcement bars. 3. Bar splicers shall be of the "coupler" type, and shall not have flanges. 4. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. 5. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. 6. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. 7. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements: A. Minimum Capacity (Tension in ksi) = 1.25 x fy x A(t) B. Minimum *Pull-out Strength (Tension in ksi) = 1.25 x fs (allow) x A(t) rier est fy = Yield strength of lapped reinforcement bars in ksi. fs(allow) = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A(t) = Tensile stress area of lapped reinforcement bars (in²). # = 28 day concrete BAR SPLICER ASSEMBLIES STRENGTH REQUIREMENTS Splicer Rod Bar Size Min. Pull-Out Min. Capacity Strength (kips) to be or Dowel Bar (kips) tensior Spliced Length tension 23.0 9.2 #6 2'-7" 33,1 13.3 #7 45.1 18.0 3'-5' #8 1'-6' 58.9 236 #0 51-9 75.0 30.0 8. Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. 9 Reinforcement shall not be paid for separately but included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT PAVEMENT, of the thickness specified. 10. Connection to long term transverse construction joint work includes the installation of the bar splicers, payment and to be solved and be included in the cost of CONTINUOUSLY RELIFERCED PORTLAND CEMENT CONCRETE PAYEMENT of the thickness specified. The bars to be drilled and grouted shall not be paid for separately but included in the cost of PORTLAND CEMENT CONCRETE SHOULDERS, of the thickness specified. CDT-5 REVISIONS ILLINOIS DEPARTMENT OF TRANSPORTATION DATE F.A.I. 94/90 (DAN RYAN EXPRESSWAY) **31ST STREET TO 71ST STREET** SB EXPRESS LANE RECONSTRUCTION CIVIL DETAILS LONG TERM TRANSVERSE CONSTRUCTION JOINT (SHEET 2 OF 2) SCALE: NONE DRAWN BY: DATE: 7/7/05 CHECKED BY: