The diameter of this part

of the bar spliced.

is the same as the diameter

SHEETS SHEET NO. SHEET NO. 25F.A.S. 27-1780 IBR-1 69 50 27 **SHEETS** CLINTON FED, ROAD DIST, NO. 8 R.LINDIS PED, AID PROJE

Contract # 76961

<u>MOTES</u>
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for

reinforcement bars. 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:

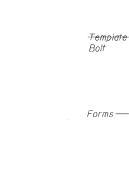
Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

(lension iii kipo) Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES Strength Requirements Bar Size to Splicer Rod or Min. Capacity Min. Pull-Out Strength be Spliced | Dowel Bar Length kips - tension kips - tension 14.7 7.9 #4 1'-8" #5 2'-0" 12.3 23.0 17.4 2'-7" 33.1 #6 45.1 23.8 #7 3'-5" #8 4'-6" 58.9 31.3 75.0 #9 5'-9" 39.6 95.0 50.3 #10 7'-3" 9'-0" 117.4 61.8



The diameter of this part is

equal or larger than the

diameter of bar spliced.

BAR SPLICER ASSEMBLY ALTERNATIVES

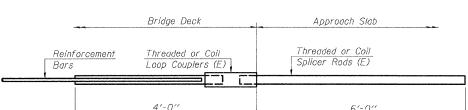
WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

- Wire Connector

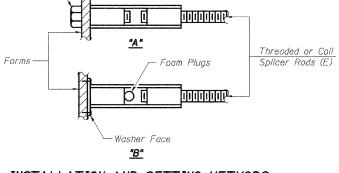
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension Vo. Required = 64

DESIGNED ADL CHECKED WLW DRAWN BGJ CHECKED WLW BSD-1 11-1-06



Stage Construction Line

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

Threaded or Coil Loop Couplers (E)	Threaded or Coil Splicer Rods (E)
4'-0''	6′-0′′

BAR SPLICER ASSEMBLY DETAILS FAS RTE 1780 (OLD US 50) OVER SUGAR CREEK SECTION 27-1BR-1 CLINTON COUNTY STATION 9+14.50 STRUCTURE NUMBER 014-0077