- Foam Plugs

- Stage Construction Line

SHEET NO. 7 OF 10 SHEETS

NOTES

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 fied 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:

(Lension in Kipo) Minimum *Pull-out Strength = 1.25 x fs_{ollow} x A_t

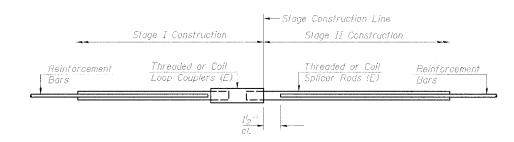
Where fy = Yield strength of lapped reinforcement bars in ksi.

 $fs_{\it allow}_{\it Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)}$ A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

| | BAR SPLIC | CER ASSEMBLI | ES |
|-----|------------------------------------|-----------------------|--|
| | | Strength Requirements | |
| | Splicer Rod or Dowel Bar Length | | Min. Pull-Out Strength kips - tension |
| #4 | 1'-8'' | 14.7 | 5.9 |
| #5 | 2'-0" | 23.0 | 9.2 |
| #6 | 2'-7" | 33.1 | 13.3 |
| #7 | 3'-5'' | 45.1 | 18.0 |
| #8 | 4'-6'' | 58.9 | 23.6 |
| #9 | 5′-9″ | 75.0 | 30.0 |
| #10 | 7'-3'' | 95.0 | 38.0 |
| #11 | 9'-0'' | 117.4 | 46.8 |

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

| Bar Size | No. Assemblies Required | Location |
|-------------|---|---|
| #6 | 24 | F00TINGS |
| | *************************************** | *************************************** |
| Total | 24 | |

BAR SPLICER ASSEMBLY DETAILS IL. ROUTE 48 OVER BUCKHART CREEK F.A.P. ROUTE 714 - SECTION D-6 IL. 48 IMPROVEMENT 2006 CHRISTIAN COUNTY STA. 401+35.5 S.N. 011-2507

Template

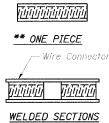
Forms:

—The diameter of this part is 🚣 equal or larger than the HIIIII diameter of bar spliced. is the same as the diameter

ROLLED THREAD DOWEL BAR

The diameter of this part

of the bar spliced.

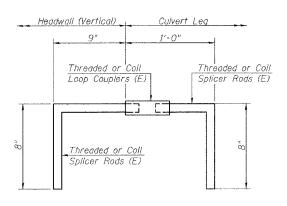


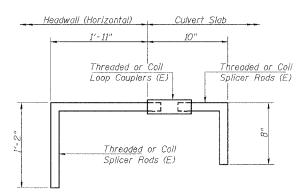
BAR SPLICER ASSEMBLY ALTERNATIVES

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



"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. (F) : Indicates epoxy coating.





FOR HEADWALL (VERTICAL)*** (Cast into Three Sided Precast Concrete Structure)

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tension ρ , Required = 56

FOR HEADWALL (HORIZONTAL)*** (Cast into Three Sided Precast Concrete Structure)

| Bar Splicer for #5 bar |
|---|
| Dai Shirei Loi #3 nai |
| Min. Capacity = 23.0 kips - tension |
| Min. Pull-out Strength = 9.2 kips - tension |
| No. Required = 120 |

*** The cost of the bar splicer assemblies for headwalls will be included in the cost of Three Sided Precast Concrete Structures.

Threaded or Coil

Spilicer Rods (E)