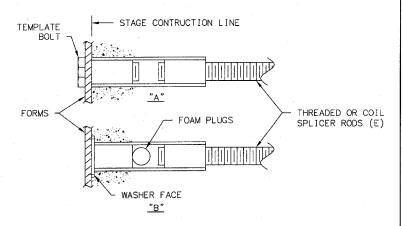


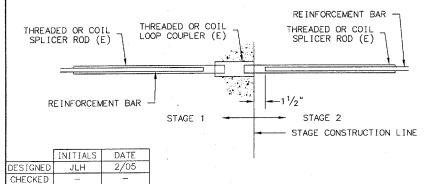
BAR SPLICER ASSEMBLY ALTERNATIVES

** HEAVY HEX NUTS CONFORMING TO ASTM A 563, GRADE C, D OR DH MAY BE USED.



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.



2/05

JLH

PREPARED BY ST. CLAIR COUNTY

ADD DRAWING FILE: DETAILS

DRAWN

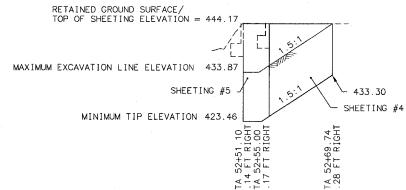
CHECKED

TEMPORARY SHEET PILING DETAIL

WEST PILING AREA = 394 SQ FT REQUIRED SECTION MODULUS = 3.3 CU IN/FT - RETAINED GROUND SURFACE/ SHEETING #1 TOP OF SHEETING ELEVATION 443 7 436.21 432.89 437 54 SHEETING #2 MAXIMUM EXCAVATION LINE ELEVATION 432.46 SHEETING #3 MINIMUM TIP ELEVATION 35 GH 83 8.E **425.26** 17 FT RIC 51+04. FT RI 10 E STA 51+33. 1.34 FT RI ₹5.

EAST PILING AREA = 312 SQ FT

REQUIRED SECTION MODULUS = 8.57 CU IN/FT



IF THE CONTRACTOR CHOOSES TO ALTER THE TEMPORARY CANTILEVER SHEET PILING DESIGN REQUIREMENTS SHOWN ON THE PLANS, A DESIGN SUBMITTAL INCLUDING PLAN DETAILS AND CALCULATIONS WILL BE REQUIRED FOR REVIEW AND ACCEPTANCE BY THE ENGINEER.

SHEET PILING SHALL BE UTILIZED IN SECTIONS TO COINCIDE WITH STAGE

NOTES: BAR SPLICER ASSEMBLIES SHALL BE OF AN APPROVED TYPE AND DEVELOPE 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

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:

1 MINIMUM CAPACITY (TENSION IN KIPS)=1.25 x fy x A1

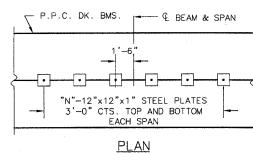
2 MINIMUM *PULL-OUT STRENGTH (TENSION IN KIPS)= 1.25 x fs allow x A1
WHERE fy = ALLOWABLE TENSILE STRESS IN LAPPED REINFORCEMENT BARS IN ksi.
fs allow = ALLOWABLE TENSILESTRESS IN LAPPED REINFORCEMENT BARS IN ksi (SERVICE LOAD)
A1 = TENSILE STRESS AREA OF LAPPED REINFORCEMENT BARS.

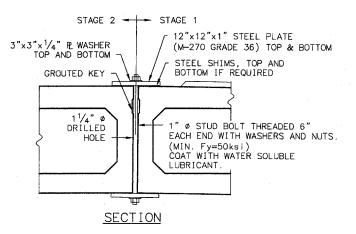
BAR SPLICER ASSEMBLY							
		STRENGTH REQUIREMENTS					
BAR SIVE TO	SPLICER ROD OR	MIN CAPACITY	MIN PULL-OUT	STRENGTH			
BE SPLICED	DOWEL BAR LENGTH	kips-TENSION	kips-TENSION				
#4	1'-8"	14.7	5.9				
#5	2'-0"	23.0	9.2				
#7	3'-5"	45.1	18.0				

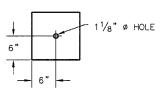
BAR SPLICER ASSEMBLIES SHALL BE ACCORDING TO SECTION 508 OF THE STANDARD SPECIFICATIONS, EXCEPT AS NOTED.

SECTION NO.	COUNTY HIGHWAY	COUNTY	SHEET OF SHEETS
00-00196-08-BR.	47	ST.CLAIR	- 30F18
FHWA REG.NO.7	ILLINOIS	FEDERAL AID PROJECT	
		CONTRACT 97257	

SHEAR KEY CLAMPING DETAIL AT STAGE CONSTRUCTION JOINT







CLAMPING PLATE

1. SEE SPECIAL PROVISIONS FOR STAGE CONSTRUCTION OF PRECAST PRESTRESSED CONCRETE DECK BEAMS.

2. SEE SHEETS 5 & 6 FOR STAGE CONSTRUCTION DETAILS. 3. COST OF SHEAR KEY CLAMPS ARE INCLUDED IN PRECAST PRESTRESSED CONCRETE DECK BEAMS.

N=6 FOR SPANS UP TO 48 FT N=8 FOR SPANS UP TO 64 FT.