

81-485 LICENSED STRUCTURA ENGINEER

7	S	trι	ict	ure	No.	026	- 3	205:	Two	span	bridge	
e	ca	st	C	oncr	rete	bridg	7e	slabs	on	closed	timber	
71	ts	ar	Ъđ	piel	۳	52′L.	х2	2.3W				

ROUTE	SE	СТ	ION	COUNTY	TOTAL SHEETS	SHEET NO.		
TR 442	05-081	21	-00-BR	FAYETTE	10	7		
FED. ROAD	DIST. NO.	7	ILLINOIS	FEDERAL AID	PROJECT			
				CONTRACT NO	05400			

## CONTRACT NO. 95489

## BILL OF MATERIALS (BRIDGE ONLY)

UNIT	SUB	SUPER	TOTAL
CU YD	10	-	10
TON	36	-	36
TON	120	-	120
EACH	-	-	1
CU YD	17.2	-	17.2
SQ FT		1336	1336
POUND	2660	-	2660
FOOT	-	114	114
FOOT	<i>31</i> 5	-	315
FOOT	315	-	315
EACH	1	-	1
CU YD	2.8	-	2.8
EACH	1	-	1
	CU YD TON TON EACH CU YD SQ FT POUND FOOT FOOT FOOT EACH CU YD	CU YD I0   TON 36   TON 120   EACH -   CU YD 17.2   SO FT -   POUND 2660   FOOT -   FOOT 315   FOOT 315   EACH 1   CU YD 2.8	CU YD IO -   TON 36 -   TON 120 -   EACH - -   CU YD 17.2 -   SQ FT - 1336   POUND 2660 -   FOOT - 114   FOOT 315 -   FOOT 315 -   EACH 1 -   CU YD 2.8 -

## GENERAL NOTES

See Section 502 of the Standard Specifications for Structure Excavation.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel at the ROW line. If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment.

See Specifications for Soil Borinas.

Do not scale these drawings

The Contractor shall drive one (1) Steel HP12x53 Test Pile in a permanent location at the South Abutment as directed by the Engineer before ordering the remainder of the piles.

The Contractor is advised that some upper level layers of stiff soils may be encountered prior to the location of anticipated refusal. See the Soil Borings for further information.

In addition to all other requirements of Section 512 of the Standard Specifications, splices for Steel H-piles shall develop the full capacity of the steel's cross sectional area of the pile for tension, shear and bending forces. One approved method of achieving this requirement is full penetration but welding of the entire cross section. Other types of splices meeting the full penetration buil weiging of the entire cross section. Unter types of splices meeting the tuli capacity requirement may be allowed subject to the approval of the Engineer. Any proposal by the Contractor to use an alternate splice method must include adequate documentation demonstrating that the full tension, shear and bending capacities will be met. Appropriate welder qualifications will be required for the positions and processes used in splicing all plies. Nondestructive testing of completed welds will be limited to visual inspection.

The abutment bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required,  $l_g$ " fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

