

ROUTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
CH 16	00-00115-01~BR		MARION	14	8
		ILLINOIS	FEDERAL A	ID PROJ	ECT
			CONTRACT NO 97287		

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None

BILL OF MATERIALS							
ONE ABUTMENT w/ WINGWALLS							
Bar	No.	Size	Length	Shape			
ħ	20	#5	5′-6″				
h _I	12	#5	4'-3"				
h ₂	3	#5	27'-8"				
n	56	#5	4′-6″	\square			
P	12	#7	28'-8"				
S	30	#4	9′-5″	<u>с</u>			
u	8	#6	8'-0"				
v	24	#5	4'-9"	CUT IN FIELD			
Concrete :	Structures	Cu Yd	9.8				
Reinforce	ment Bars	Pound	1620				
Concrete i	Encasement	Cu Yd	1.4				

GENERAL NOTES

All exposed edges shall have standard 3_4 " chamfer, unless otherwise noted.

All clearances between rebar and form surface shall be 2", unless otherwise noted.

Space reinforcement in cap to miss PPCDB dowel rods.

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

The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

The Steel H-piles shall be according to AASHTO M270 Grade 50.

The Contractor is hereby advised that very 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 butt welding of the entire cross section. Other types of splices meeting the full 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 piles. Nondestructive testing of completed welds will be limited to visual inspection.

ABUTMENT DETAILS PROPOSED BRIDGE CARRYING CH 16 OVER BRANCH TO CROOKED CREEK Sheet SECTION 00-00115-01-BR MARION COUNTY, ILLINOIS of 14 Job No. 50805