

\*Included in the cost of Pipe Underdrains for Structures.
All drainage system components shall extend to 2'-0" from
the end of each wingwall except an outlet pipe shall extend
until intersecting with the side slopes. The pipes shall drain
into \*concrete headwalls. (See Article 601.05 of the Standard
Specifications and Highway Standard 601101)

SECTION THRU INTEGRAL ABUTMENTS
(Horiz, dim. @ Rt. L's)

## GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated.

All embedded and separate bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 (as applicable).

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

For Soil Borings, See Special Provisions.

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

Protective Coat shall be applied to the top of the deck, edge of deck, and approach pavement.

Bridge Deck Grooving is figured 1'-0" from rail face and includes the approach pavements.

## TOTAL BILL OF MATERIAL

T-7-7-1/				
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	EACH		*****	1
Structure Excavation	CU YD		300	300
Channel Excavation	CU YD		1,425	1,425
Concrete Superstructure	CU YD	127.1	**********	127.1
Concrete Structures	CU YD	Assertations	39.7	39.7
Concrete Encasement	CU YD		4.2	4.2
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	FOOT	535		535
Reinforcement Bars, Epoxy Coated	POUND	23,920	6,160	30,080
Stone Riprap, Class A4	TON		430	430
Filter Fabric	SQ YD		535	535
Steel Railing, Type SM	F00T	182	MARKET AND ASSESSED.	182
Furnishing Steel Piles HP12x63	F00T		550	550
Driving Piles	F00T		550	550
Test Pile Steel HP12x63	EACH	San	2	2
Protective Coat	SQ YD	553		553
Bridge Deck Grooving	SQ YD	504	************	504
Name Plates	EACH		1	1
Pipe Underdrains for Structures, 4"	F00T	and the state of t	174	174
Bridge Approach Pavement	SQ YD	ATTENDED ATTENDED	annexe mane	160
Porous Granular Embankment (Special)	CU YD		196	196
Geocomposite Wall Drain	SQ YD		101	101
Bar Splicers	EACH	48	***********	48
	Structure Excavation Channel Excavation Concrete Superstructure Concrete Structures Concrete Encasement Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54" Reinforcement Bars, Epoxy Coated Stone Riprap, Class A4 Filter Fabric Steel Railing, Type SM Furnishing Steel Piles HP12x63 Driving Piles Test Pile Steel HP12x63 Protective Coat Bridge Deck Grooving Name Plates Pipe Underdrains for Structures, 4" Bridge Approach Pavement Porous Granular Embankment (Special) Geocomposite Wall Drain	Structure Excavation         CU YD           Channel Excavation         CU YD           Concrete Superstructure         CU YD           Concrete Structures         CU YD           Concrete Encasement         CU YD           Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"         FOOT           Reinforcement Bars, Epoxy Coated         POUND           Stone Riprap, Class A4         TON           Filter Fabric         S0 YD           Steel Railing, Type SM         FOOT           Furnishing Steel Piles HP12x63         FOOT           Driving Piles         FOOT           Test Pile Steel HP12x63         EACH           Protective Coat         S0 YD           Bridge Deck Grooving         S0 YD           Name Plates         EACH           Pipe Underdrains for Structures, 4"         FOOT           Bridge Approach Pavement         S0 YD           Porous Granular Embankment (Special)         CU YD           Geocomposite Wall Drain         S0 YD	Structure Excavation CU YD Channel Excavation CU YD Concrete Superstructure CU YD Concrete Structures CU YD Concrete Encasement CU YD Concrete Encasement CU YD Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54" Reinforcement Bars, Epoxy Coated POUND Stone Riprap, Class A4 TON Filter Fabric Sa YD Steel Railing, Type SM FOOT Steel Railing, Type SM FOOT Driving Piles FOOT Test Pile Steel HP12x63 FOOT Test Pile Steel HP12x63 Bridge Deck Grooving Name Plates Pipe Underdrains for Structures, 4" FOOT Bridge Approach Pavement Porous Granular Embankment (Special) CU YD Geocomposite Wall Drain  CU YD CU CU YD CU	Structure Excavation         CU YD         —         300           Channel Excavation         CU YD         —         1,425           Concrete Superstructure         CU YD         —         39.7           Concrete Structures         CU YD         —         39.7           Concrete Encasement         CU YD         —         4.2           Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"         FOOT         535         —           Reinforcement Bars, Epoxy Coated         POUND         23,920         6,160           Stone Riprap, Class A4         TON         —         430           Filter Fabric         S0 YD         —         535           Steel Railing, Type SM         FOOT         182         —           Furnishing Steel Piles HP12x63         FOOT         —         550           Driving Piles         FOOT         —         550           Test Pile Steel HP12x63         EACH         —         2           Protective Coat         S0 YD         553         —           Bridge Deck Grooving         S0 YD         504         —           Name Plates         EACH         —         1           Pipe Underdrains for Structures, 4"         FOOT </td

① See Special Provisions

GENERAL NOTES, DETAILS, AND BILL OF MATERIALS C.H. 12 OVER HICKS CREEK SECTION 07-00090-00-BR MACOUPIN COUNTY

SHEET NO.2	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CH 12	07-00090-00-BR	MACOUPIN	77	12	
19 SHEETS		SN 059-3556	CONTRACT NO. 93538			
	DAD DIST. NO. 7 ILLINOIS FE	D. AID PROJECT E	3RS-0732(1	48)		