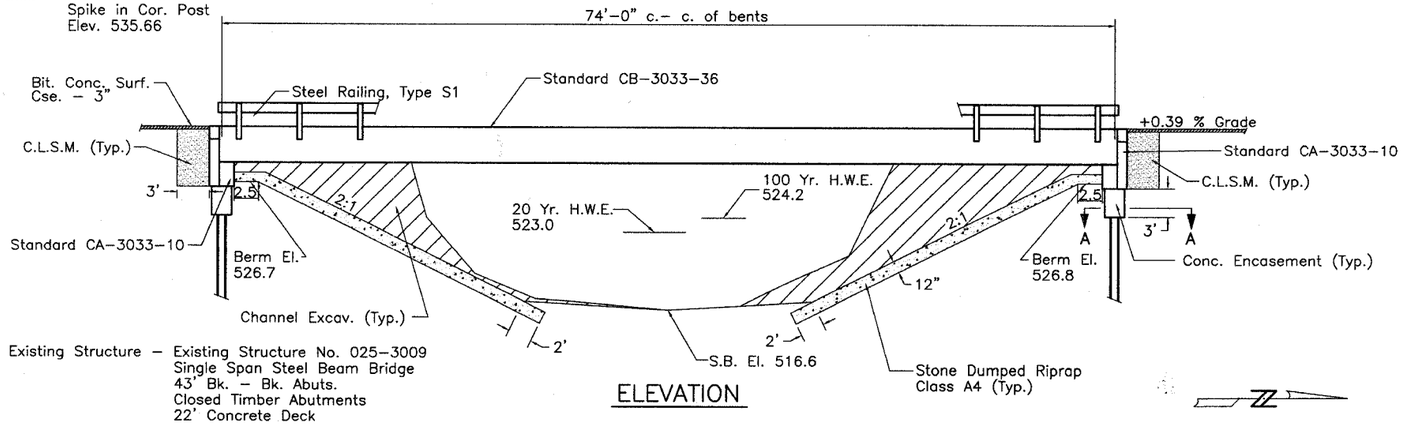
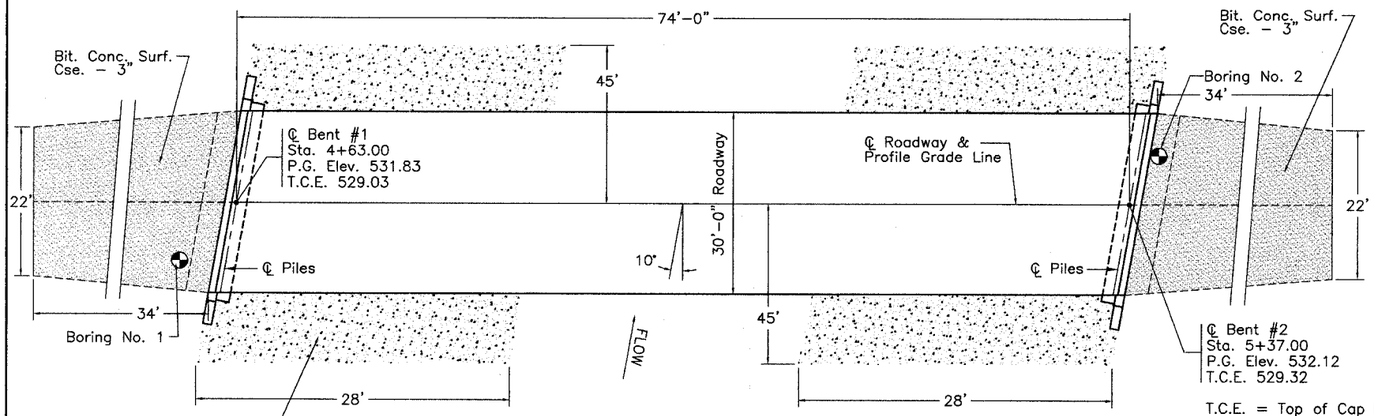
ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 709	05-00085-00-BR	EFFINGHAM	13	4
CONTRACT NO. 95458		ILLINOIS	PROJECT BRS-709(103)	

B.M. – Rt. Sta. 6+66
Spike in Cor. Post
Elev. 535.66



Existing Structure – Existing Structure No. 025-3009
Single Span Steel Beam Bridge
43' Bk. – Bk. Abuts.
Closed Timber Abutments
22' Concrete Deck

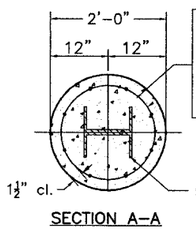
ELEVATION



T.C.E. = Top of Cap Elev.

PLAN

Salvage – Any material deemed salvageable by the Engineer shall be stockpiled on the R.O.W. and shall become the property of Effingham County. The Contractor shall dispose of all remaining material.



SECTION A-A

Welded wire fabric 6 x 6 – W4.0 X W4.0 weighing 58 lbs/100sq. ft.. The cost Reinforcement is incidental to the cost of Class SI Concrete Encasement. Forms for Encasement may be omitted when soil conditions will permit.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications – 17th ed.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 7.2% g
Site Coefficient (S) =

PILE DATA (2-ABUTS.)

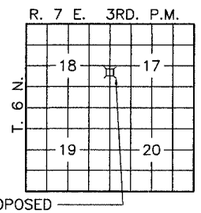
Type	HP 12 X 53
Capacity	Refusal
Estimated Length	50'
Number Required	12 Includes 1 Test Pile In Bent #2

GENERAL NOTES

1. The Contractor shall drive 1 test pile as specified in Bent #2 before ordering the remaining piles.
2. See Special Provisions for boring logs.
3. Channel Excavation: This material shall be excavated as shown within the limits of the proposed bridge then tapered to the existing channel at the Roadway R.O.W. It is estimated that 50% of the Channel Excavation will be suitable for use in the embankment. Unsuitable material shall be disposed of by the Contractor.
4. A Corrosion Inhibitor as covered in the Special Provisions, shall be used in the concrete for precast prestressed concrete deck beams.
5. Reinforcement bars shall conform to the requirements of AASHTO M-31 or M322, Grade 60.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub. Piers	Sub. Abuts.	Total
Removal of Existing Structures	Each				1
Concrete Structures	Cu.Yds.			23.4	23.4
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq.Ft.	2250			2250
Steel Railing, Type S-1	Foot	150			150
Reinforcement Bars	Pound			2900	2900
Furnishing Steel Piles HP 12 X 53	Foot			550	550
Driving Steel Piles	Foot			550	550
Test Pile Steel HP 12 X 53	Each			1	1
Name Plates	Each			1	1
Concrete Encasement	Cu.Yds.			4.1	4.1
Stone Dumped Riprap, Class A-4	Tons			240	240
Channel Excavation	Cu.Yds.			235	235
Waterproof Membrane System	Sq.Yds.	250			250
Portland Cement Mortar Fairing Cse.	Foot	675			675
Controlled Low-Strength Material	Cu.Yds.			40	40
Bit. Conc. Surf. Cse., Superpave	Ton	30			30



LOCATION SKETCH

INDEX OF SHEETS

STATION 5+00.00
RAMSEY CREEK
SEC. 05-00085-00-BR BUILT 200
EFFINGHAM COUNTY
PROJECT BRS-709(103)
LOADING HS20
STR. NO. 025-3221

I certify these Standard Bridge Plans for foundation treatment only.

LETTERING FOR NAME PLATE

Locate Name Plate at S.E. corner of Bridge (See Std. CN)

06
12-3-05

WATERWAY INFORMATION

Drainage Area = 4.85 Sq. Mi. Low Grade Elev. = 531.7 @ Sta. 4+50

Flood	Freq. Yr.	Q ft³/s	Opening ft² Exist.	Opening ft² Prop.	Nat. H.W.E.	Head – ft Exist.	Head – ft Prop.	Headwater Exist.	Headwater Prop.
Design	20	1015	275	403	523.0	0.0	0.0	523.0	523.0
Base	100	1475	311	475	524.2	0.0	0.0	524.2	524.2
Overtopping									
Max. Calc.	500								

GENERAL PLAN & ELEVATION
F.A.S. ROUTE 709
OVER RAMSEY CREEK

SECTION 05-00085-00-BR
EFFINGHAM COUNTY
STATION 5+00.00