

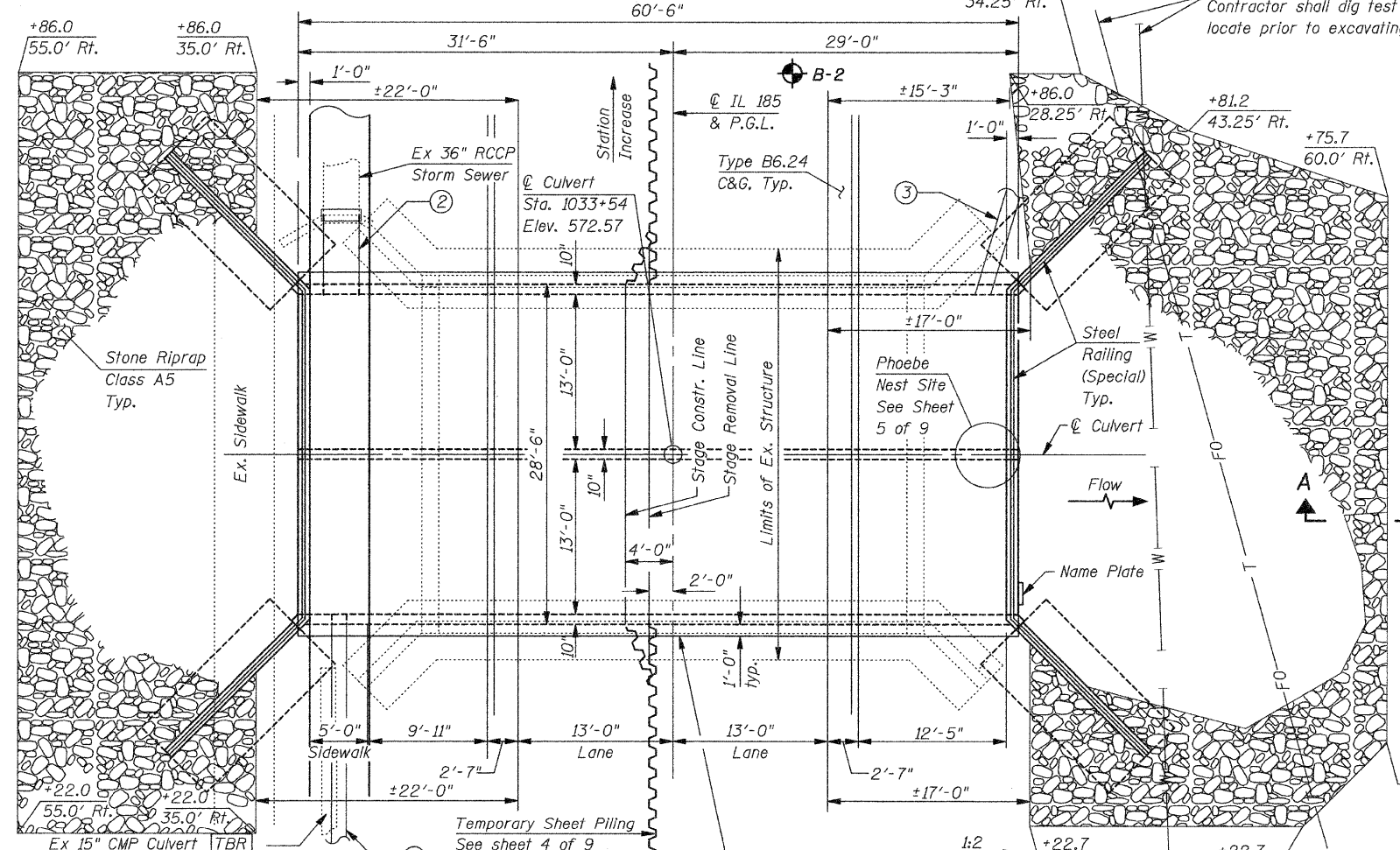
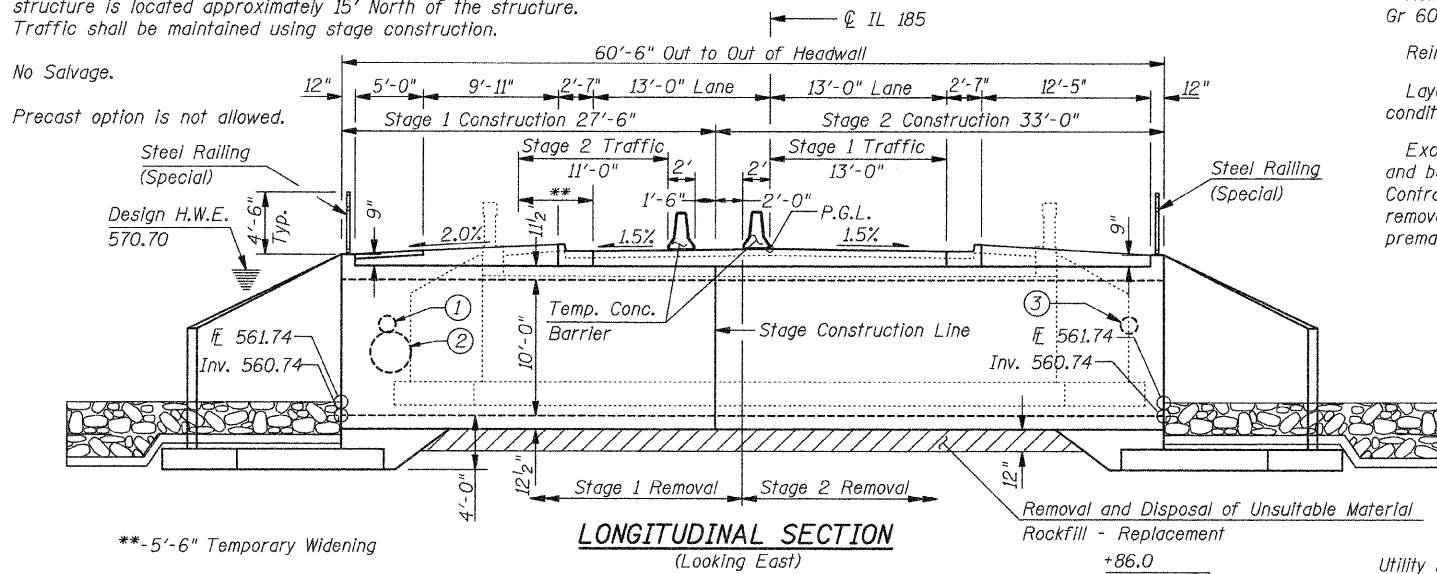
B.M. 101- Chiseled "□" on N.W. corner of Bridge on S.W. corner of headwall Sta. 1033+38; 19.4' Lt. Elev. 572.532

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Existing Structure S.N. 026-0072 is a single span slab structure built in 1932 under Section 114B. The structure is 30' Bk to Bk of abutments with a 42'-2" roadway width and is constructed at a 0° skew. Both abutments are Closed abutments on spread footing. There is 4'-2" concrete rail on either side of the slab. In 2006 there was a 2.5" resurfacing with B-6.24 gutters added to the roadway. A pedestrian walkway structure is located approximately 15' North of the structure. Traffic shall be maintained using stage construction.

No Salvage.

Precast option is not allowed.

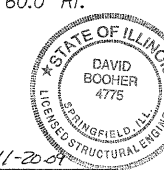


DESIGNED SCD
CHECKED DRB
DRAWN THW
CHECKED SCD

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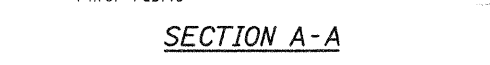
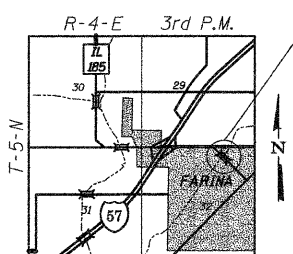
PLAN
Limits of Removal & Disposal of Unsuitable Material and Rockfill Replacement

David Booher, Illinois S.E. 081-004775 Expires 11-30-2010



11-20-09 Date

LOCATION SKETCH



- 1 Pr Storm Sewer, CL A, TY 2, 15" x 60" @ 1.00%. To pass thru Box Culvert wall E Elev. 566.90
- 2 Pr Storm Sewer, CL A, TY 1, 36" x 8" @ 0.30%. To connect to exist. Storm Sewer and pass through box culvert wall. E Elev. 564.48±
- 3 Pr 15" Pipe culvert, 15"x15" CS/A, TY 1 To pass thru Box Culvert wall E Elev. 566.68



- APPROVED FOR STRUCTURAL ADEQUACY ONLY
- Relax E Anderson (TSP) ENGINEER OF BRIDGES AND STRUCTURES

GENERAL PLAN
IL ROUTE 185 OVER STREAM
F.A.S. RTE. 719 - SECTION 114B-1(2)
FAYETTE COUNTY
STA. 1033+54
S.N. 026-2019

SHEET NO. 1 OF 9 SHEETS	F.A. RTE. *	SECTION 114B-1(1) & 114B-1(2)	COUNTY FAYETTE	TOTAL SHEETS 54	SHEET NO. 42
CONTRACT NO. 74110 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

WATERWAY INFORMATION

Drainage Area = 3.8 SQ MI	Low Grade Elev. 571.83	Sta. 1039+08.46				
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	747	161 202	569.5	0.1 0.1	569.6 569.6
Base	100	1375	172 233	570.7	0.9 0.5	571.6 571.2
Overtopping Pr.	100	1375	234 234	571.3	1.0 0.6	572.3 571.9
Max. Calc.	500	1839	172 234	572.0	0.8 0.7	572.8 572.7

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	420
Porous Granular Embankment	Cu. Yd	377
Removal of Existing Structures No. 2	Each	1
Reinforcement Bars	Pound	39,030
Reinforcement Bars, Epoxy Coated	Pound	910
Bar Splacers	Each	153
Concrete Box Culverts	Cu. Yd.	240.7
Temporary Sheet Piling	Sq. Ft	665
Steel Railing (Special)	Foot	120
Stone Riprap, Class A5	Sq. Yd.	391
Filter Fabric	Sq. Yd.	391
Removal and Disposal of Unsuitable Material	Cu. Yd.	69
Rockfill - Replacement	Ton	141
Name Plates	Each	1

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	556.74	556.74

STATION 1033+54.00
BUILT 20 BY
STATE OF ILLINOIS
F.A.S. ROUTE 719 - SECTION 114B-1(2)
LOADING HS-20
STRUCTURE NO. 026-2019

NAME PLATE See Std. 515001

INDEX OF SHEETS

1. GENERAL PLAN & ELEVATION
2. STAGE CONSTRUCTION DETAILS & TEMPORARY SHEET PILING
3. STAGE CONSTRUCTION DETAILS
4. STAGE 1 CULVERT DETAILS
5. STAGE 2 CULVERT DETAILS
6. STEEL RAILING DETAILS
7. BAR SPLICER ASSEMBLY DETAILS
8. TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
9. SOIL BORINGS

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

LOADING HS-20-44

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)