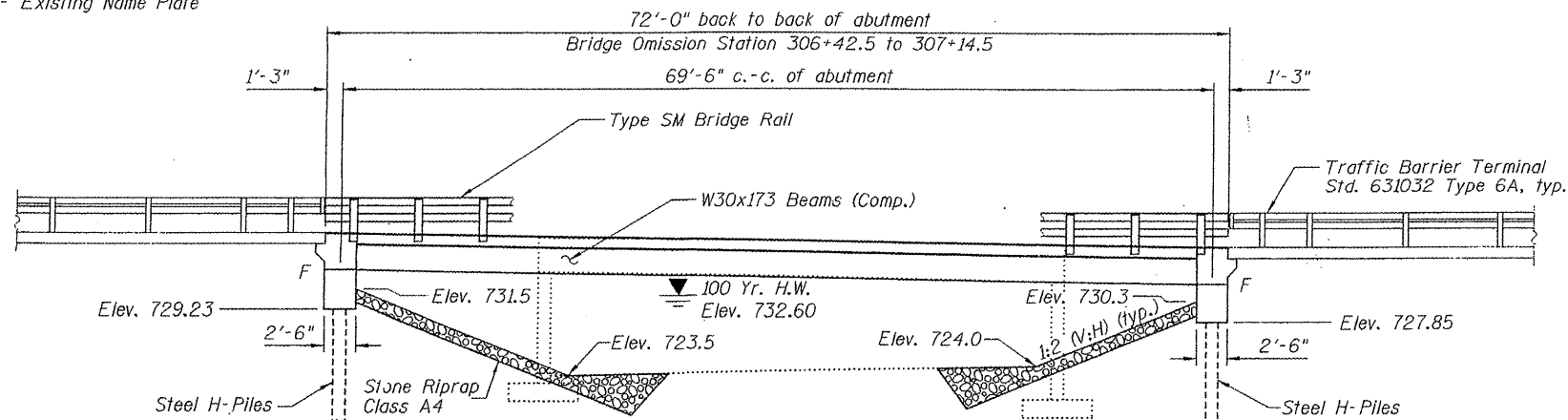


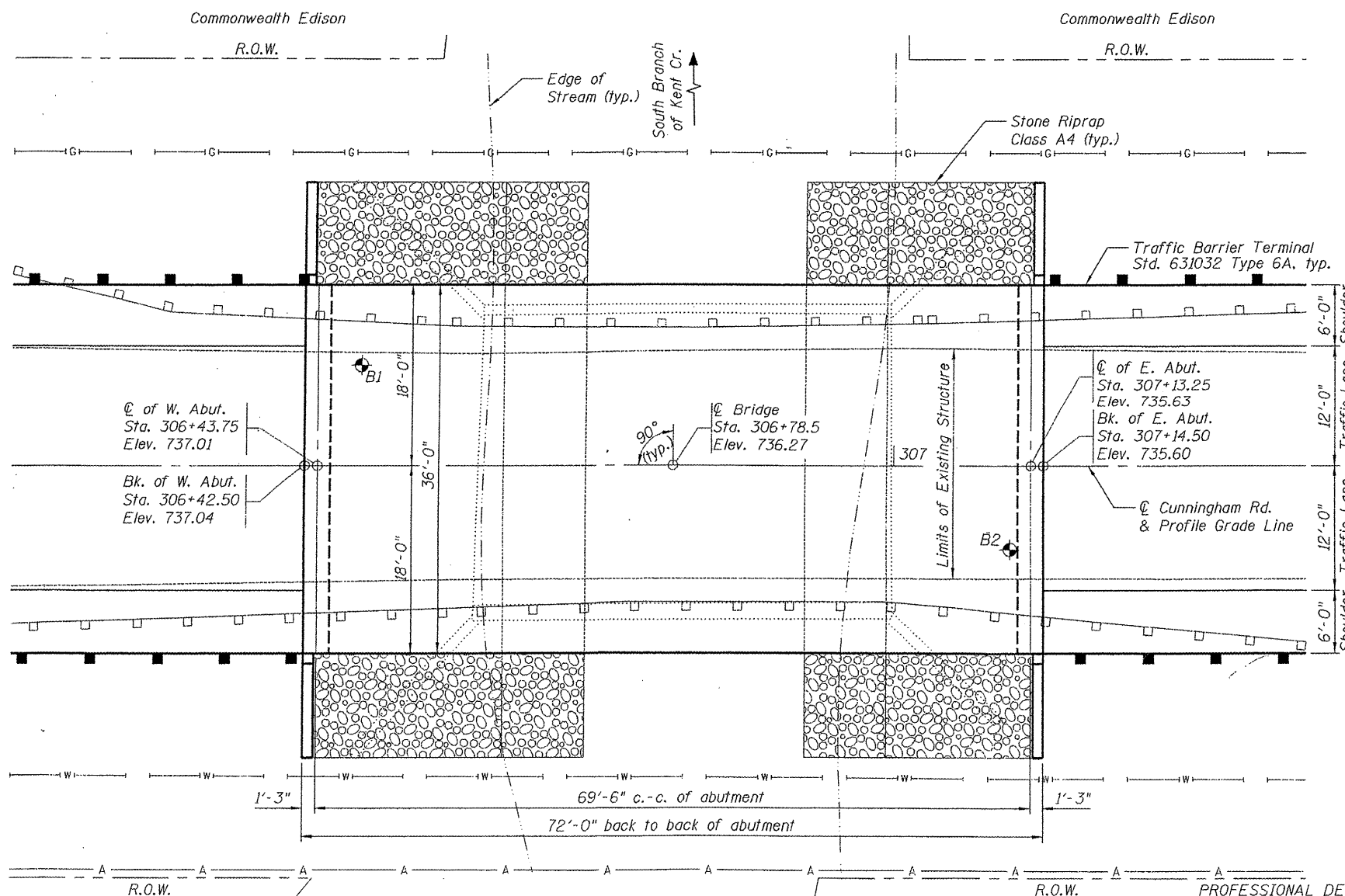
B.M.- Benchmark spike located in Power Pole Southwest of bridge. Sta. 304+66.99, 38.34' Rt., Elev. 740.29

Existing Structure - Structure No. 101-3002. Existing structure was constructed in 1953 and consists of a single span supported on closed abutments. The bridge width is 30 ft out-to-out and the bridge length is 42 ft back to back of abutments. Superstructure consists of six lines of wide flange steel beams supporting a reinforced concrete deck with a bituminous overlay. Abutments are supported by timber piles. The road will be closed during construction with a signed detour route.

Salvage- Existing Name Plate



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications - 5th edition

LOADING HL-93

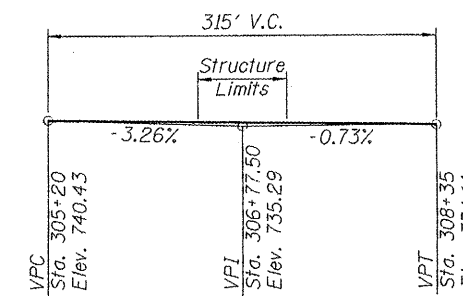
Allow 50 #/sq. ft. for future wearing surface.

DESIGN STRESSES

f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Reinforcement)
fy = 50,000 p.s.i. (M270 Grade 50)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (SD1) = 0.078
Design Spectral Acceleration at 0.2 sec (SDs) = 0.131
Soil Site Class = D



PROFILE GRADE
(Along C Roadway)

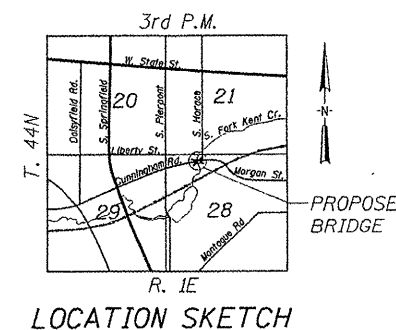
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	E. Abut.
	729.23	727.85

WATERWAY INFORMATION

Drainage Area = 12.3 Sq. Mi. Low Grade Elev. = 736.0±

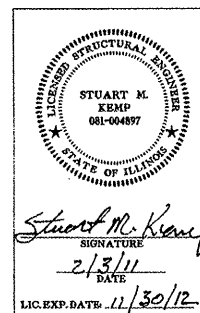
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	1270	271.7	337.0	730.97	-0.16	-0.01	730.81	730.96
Base	100	1730	331.7	477.4	732.63	-0.22	-0.03	732.41	732.60



LOCATION SKETCH

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes, Bridge Bill of Materials and Riprap Details
- 3-4. Top of Bridge Slab Elevations
5. Superstructure
6. Integral Abutment Diaphragm Details
7. Structural Steel
8. Structural Steel Details
9. Steel Railing, Type SM
10. Abutments
11. Steel H-Pile Details
12. Boring Logs



"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges.'"

GENERAL PLAN & ELEVATION
CUNNINGHAM ROAD BRIDGE
OVER S. BRANCH OF KENT CREEK
FAU 5077
SEC. 10-00462-00-BR
WINNEBAGO COUNTY, ILLINOIS
STATION 306+78.5
STRUCTURE NUMBER 101-3101

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 10L0054
DATE 2/3/11

SHEET NO. 1
12 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5077	10-00462-00-BR	Winnebago	21	8
CONTRACT NO. 85534				
FED. ROAD DIST. NO. 2 ILLINOIS FED. AID PROJECT				

LAYOUT: MKR 12/20/10
 DRAWN: MCK 1/14/11
 REVIEWED: SHK 1/14/11
 02/04/2011
 A:\06\back\10\0054\CADD\Struct\Sheet\S-001-CP&E.dgn