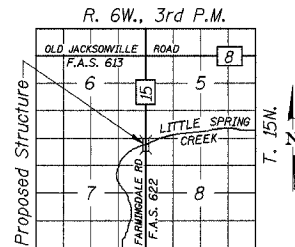


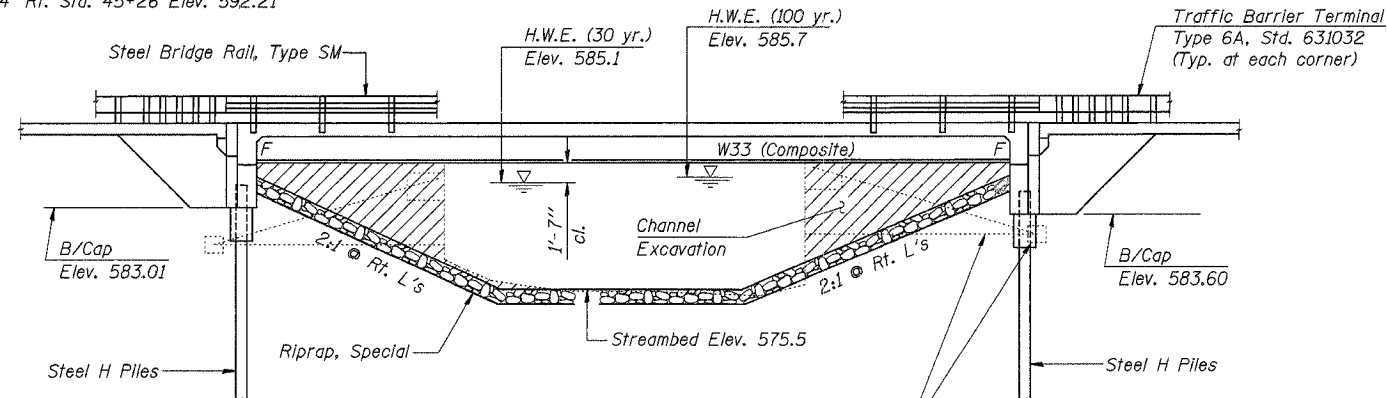
Bench Mark: B.M.#2 Chiseled Square on N.W. Parapet Wall 14' Rt. Sta. 45+26 Elev. 592.21

Existing Structure: S.N. 084-3007 built in 1955 as F.A.S. Route 622, Sec. 77-A at Sta. 45+35. Structure is a single span Steel I-beam bridge on closed timber pile bent abutments. Overall length is 38'-10" back to back abutments. Bridge width is 28'-4" out to out of deck with a 24'-0" clear roadway width. Structure is to be removed and replaced with a single span composite WF bridge on integral abutments. Construction to be completed under road closure.

No Salvage.



LOCATION SKETCH



ELEVATION

LITTLE SPRING CREEK
BUILT 200_ BY
SANGAMON COUNTY
SEC. 04-00077-01-BR
COUNTY HIGHWAY 15
F.A. PROJ. BRS-622(104)
STR. NO. 084-3407 LOADING HS20

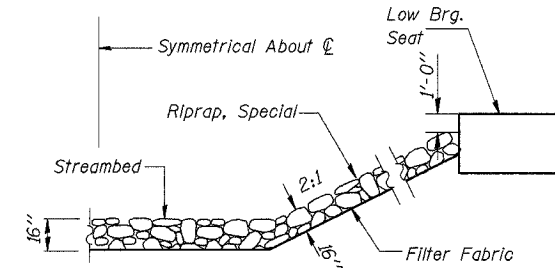
LETTERING FOR NAME PLATE
See Std. 515001

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 622	04-00077-01-BR	SANGAMON	22	6

CONTRACT NO. 93414
Sheet 1 of 13

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes & Total Bill of Material
- 3-4. Top of Slab Elevations
5. Superstructure
6. Diaphragm Details
7. Structural Steel
8. Bearing Details
9. North Abutment
10. South Abutment
11. Type SM Steel Bridge Rail Side Mounted
12. Bar Splicer Assembly Details
13. Anchor Bolt Details



SECTION A-A
STONE RIPRAP DETAIL

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

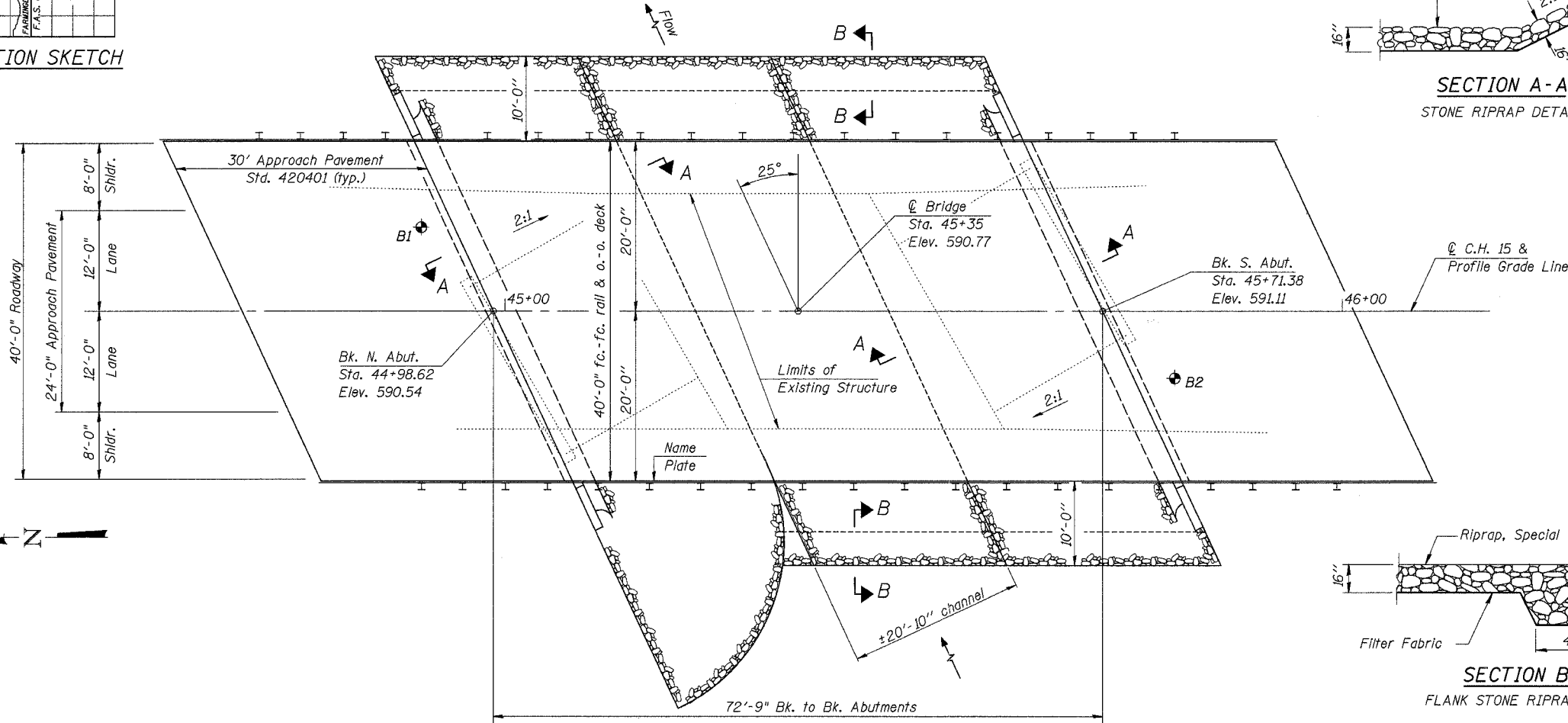
Allow 50#/Sq. Ft. for future wearing surface

DESIGN STRESSES

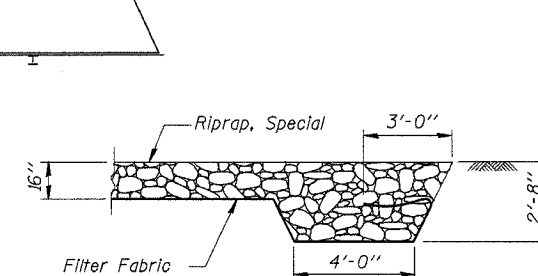
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel)
(M270 GR. 50W)

SEISMIC DATA

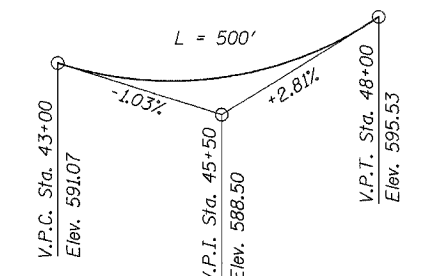
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.05
Site Coefficient (S) = 1.5



PLAN



SECTION B-B
FLANK STONE RIPRAP DETAIL



PROFILE GRADE
(along C.H. 15)

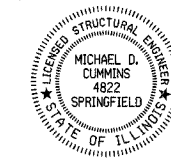
WATERWAY INFORMATION

Drainage Area	9.5 Sq. Mi.
Existing Opening (30 Yr.)	270 Sq. Ft.
Proposed Opening (30 Yr.)	380 Sq. Ft.
Existing Opening (100 Yr.)	290 Sq. Ft.
Proposed Opening (100 Yr.)	420 Sq. Ft.
Design Discharge (30 Yr.)	1422 C.F.S.
Created Head (30 Yr.)	0.2 Ft.
100 Year Discharge	1887 C.F.S.
100 Yr. Created Head	0.3 Ft.

DESIGNED	Ruben V. Boehler
CHECKED	Tim S. Howard
DRAWN	Tim S. Howard
CHECKED	Michael D. Cummins

"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'".

Michael D. Cummins (3-16-06)
ILLINOIS STRUCTURAL NO. 4822 (Expires 11/30/06)



GENERAL PLAN & ELEVATION

C.H. 15 OVER LITTLE SPRING CREEK
SECTION 04-00077-01-BR
SANGAMON COUNTY
STA. 45+35
S.N. 084-3407

CUMMINS ENGINEERING CORPORATION
JOB #: 2157
FILE #: 2157GPE
DATE: 3/14/06