Bench Mark: #5 - Railroad spike in tree at 127' Rt. Sta. 416+52. Elev. 536.44
#6 - Chiseled square in northwest existing concrete bridge support, Elev. 539.07

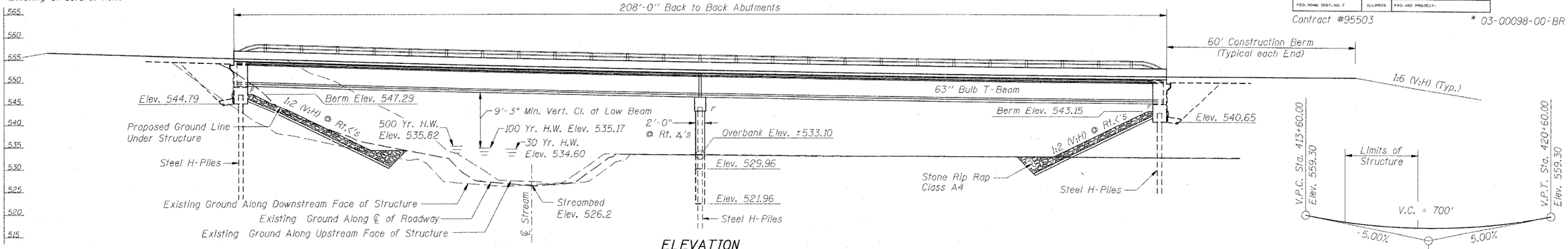
Existing Structure: None

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	*	EFFINGHAM	95	39
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 01
23 SHEETS

Contract #95503

* 03-00098-00-BR

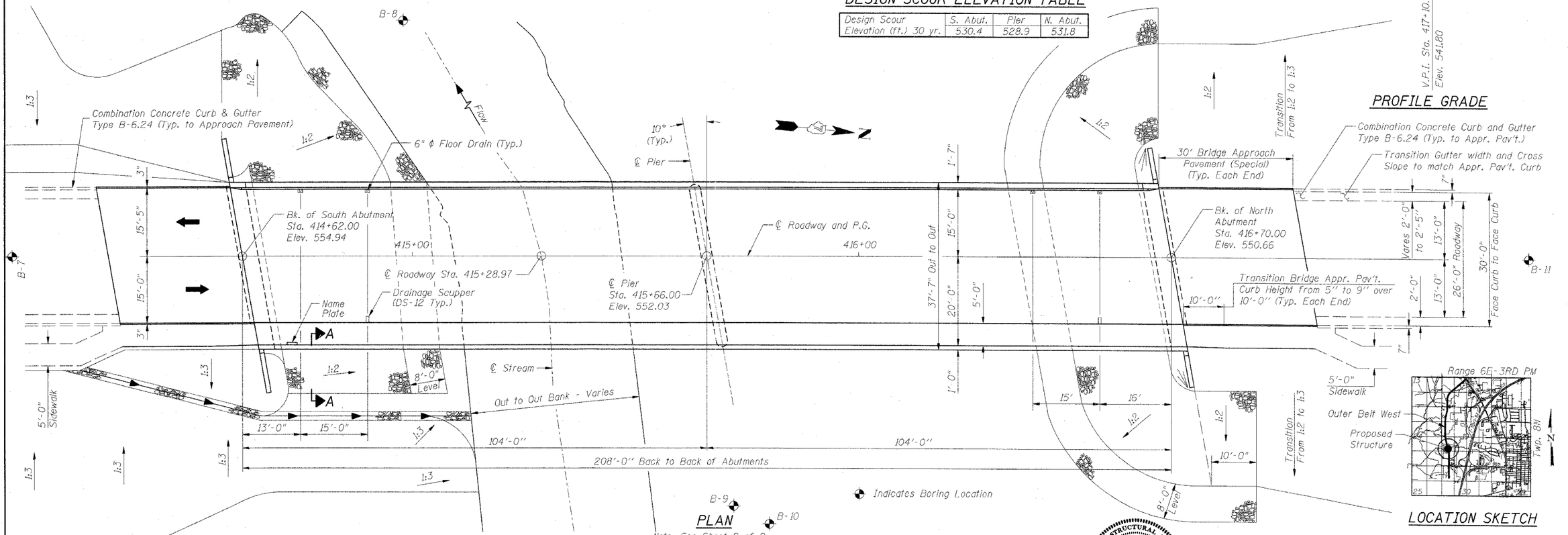


ELEVATION

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.) 30 yr.	S. Abut.	Pier	N. Abut.
	530.4	528.9	531.8

PROFILE GRADE



PLAN

Note: See Sheet 2 of 2 For Section A-A.

LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS
f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS
f'_c = 6,000 psi
f'_{ci} = 5,000 psi
f'_s = 270,000 psi (1/2" ϕ Low Lax Strands)
f_{si} = 201,960 psi (1/2" ϕ Low Lax Strands)

LOADING HS20-44

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

DESIGN SPECIFICATIONS

AASHTO 2002

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.075g
Site Coefficient (S) = 1.0

" 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.'"

LICENSED STRUCTURAL ENGINEER
JEFFREY J. LATARK
081-005159
STATE OF ILLINOIS

SIGNATURE
3/29/07
DATE
LIC. EXP. DATE : 11/30/07

GENERAL PLAN AND ELEVATION
OUTER BELT WEST OVER TRIBUTARY
TO LITTLE WABASH RIVER
LOCAL ROAD SEC. 03-00098-00-BR
EFFINGHAM COUNTY
STATION 415+66.00
STRUCTURE NO. 025-6009

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HANSON

JOB NO. 05S2071
DATE 03/29/07

LAYOUT	WNM	12/20/07
DRAWN	DAP	01/12/07
REVIEWED	JJT	01/15/07

03/29/2007, 09:11 AM
I:\05\jobs\05s2071\c-ADD\-StructModel\-FinalPlan.dgn