F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	84-2BR-1	SANGAMON	218	173
FED. ROAD DIST. NO.	ILLINOIS			

BENCHMARK:

— CHISELED "I" ON NORTHEAST CORNER OF GATE INLET IN MEDIAN APPROXIMATELY 0.2 MILES SOUTH OF BRIDGE, STA. 476, ELEVATION = 553.744
— CHISELED "I" ON NORTHEAST CORNER OF THE NORTHWEST WINGWALL OF THE NORTHBOUND BRIDGE, STA. 456+45, ELEV. 541.054

DESCRIPTION OF EXISTING STRUCTURE:

STA. 462+25, F.A.I. RTE. 55. BUILT IN 1953 AS SEC. 84-2B-2F. STRUCTURE NUMBERS 084-0018(N.B.) AND 084-0019(S.B.). SUPERSTRUCTURE CAST IN PLACE CONCRETE DECK ON WIDE FLANGE STEEL BEAMS AND BUILT-UP STEEL GIRDERS, SUBSTRUCTURE PILE BENT ABUTMENTS AND SOLID PIERS. HORIZONTAL CLEARANCE 30.2 FEET. TOTAL LENGTH 1125.0 FEET BACK TO BACK OF APPROACH SPAN ABUTMENTS. DECK TO BE REMOVED AND STRUCTURE WIDENED, REUSING STRUCTURAL STEEL. TRAFFIC TO BE MAINTAINED UTILIZING MEDIAN CROSSOVER DETOURS.
SALVAGE: CONTRACTOR SHALL REMOVE EXISTING THRIE BEAM BRIDGE RAIL AND STORE ON SITE TO BE REUSED BY I.D.O.T.

DESIGN SPECIFICATIONS

1989 AASHTO, 1990, 1991 INTERIM AND SEISMIC RETROFITTING GUIDELINES FOR HIGHWAY BRIDGE

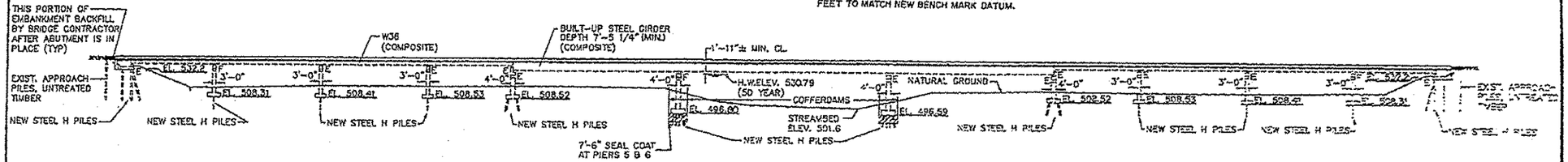
LOADING HS 20-44, AND ALTERNATE LOADING

ALLOW 25#/SQ. FT. FOR FUTURE WEARING SURFACE

DESIGN STRESSES

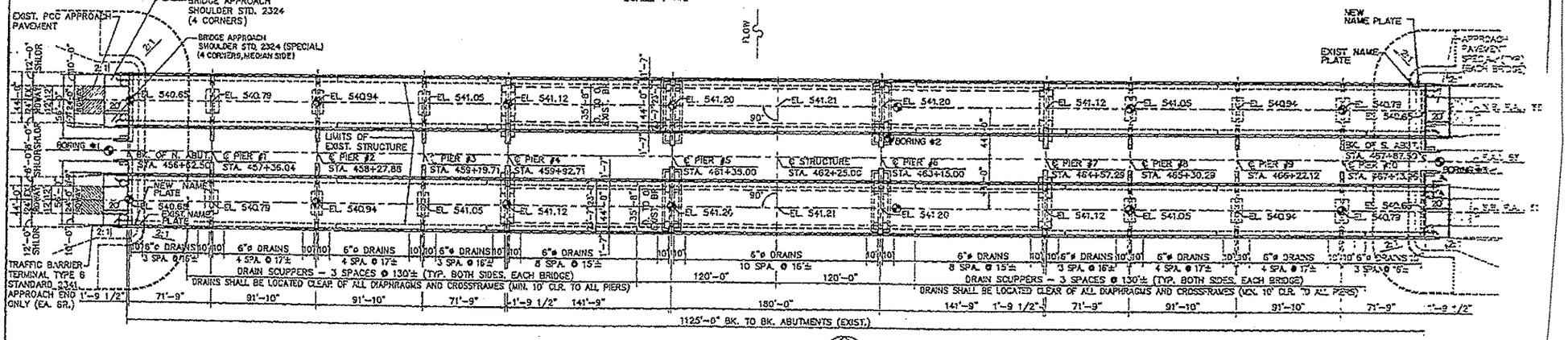
f'_c = 3,500 psi (CLASS X CONCRETE)
f_y = 60,000 psi (REINFORCEMENT)
f_y = 50,000 psi (M270 GR. 50 STRUCTURAL STEEL)
f_y = 36,000 psi (M270 GR. 36 STRUCTURAL STEEL)

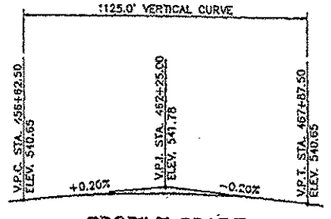
NOTE: FOOTING ELEVATIONS FROM EXISTING BRIDGE PLANS HAVE BEEN REDUCED 0.30 FEET TO MATCH NEW BENCH MARK DATUM.



ELEVATION

SCALE: 1"=40'





PROFILE GRADE
ALONG ℄ N.B. OR S.B. F.A.I. 55

APPROVED
OF STRUCTURAL ADEQUACY ONLY
4/23/97

81-4147 LICENSED STRUCTURAL ENGINEER STATE OF ILLINOIS
Robert B. Quisenberry
4/23/97 CTD. 11/30/98

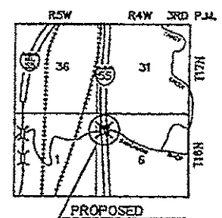
⊙ INDICATES LOCATION OF SOIL BORING

PLAN
SCALE: 1"=40'
north

WATERWAY INFORMATION

DRAINAGE AREA = 2730 SQ. MI. LOW GRADE ELEV. = 540.1 @ STA. 471+00

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT. EXIST.	OPENING SQ. FT. PROP.	NAT. H.W.E.	HEAD — FT. EXIST.	HEAD — FT. PROP.	HEADWATER EL. EXIST.	HEADWATER EL. PROP.
DESIGN	50	45,400	15,900	15,900	530.4	0.4	0.4	530.8	530.8
BASE	100	50,100	17,300	17,300	531.8	0.4	0.4	532.2	532.2
OVERTOPPING		———	———	———	———	———	———	———	———
MAX. CALC.	500	64,200	19,900	19,900	535.5	0.4	0.4	535.9	535.9



LOCATION MAP

Johnson, Depp & Quisenberry
Consulting Engineers Springfield, Illinois

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-55 OVER SANGAMON RIVER
F.A.I. RTE. 55 SECTION 84-2BR-1
SANGAMON COUNTY
STATION 462+25.00
STRUCTURE NOS. 084-0018, 084-0019

FOR INFORMATION ONLY

FILE NAME =	USER NAME = copenbergerda	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE PLANS
INFORMATIONAL USE ONLY

SCALE: | SHEET | OF | SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-55	06 BRIDGE PAINTING 2014	VARIOUS	15	5
		CONTRACT NO. 72G55		
		ILLINOIS FED. AID PROJECT		