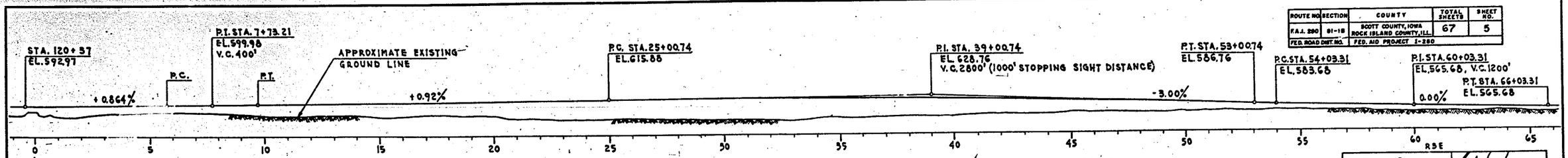
PLAN & SUB. LAYOUT

I-280 MISSISSIPPI BRIDGE

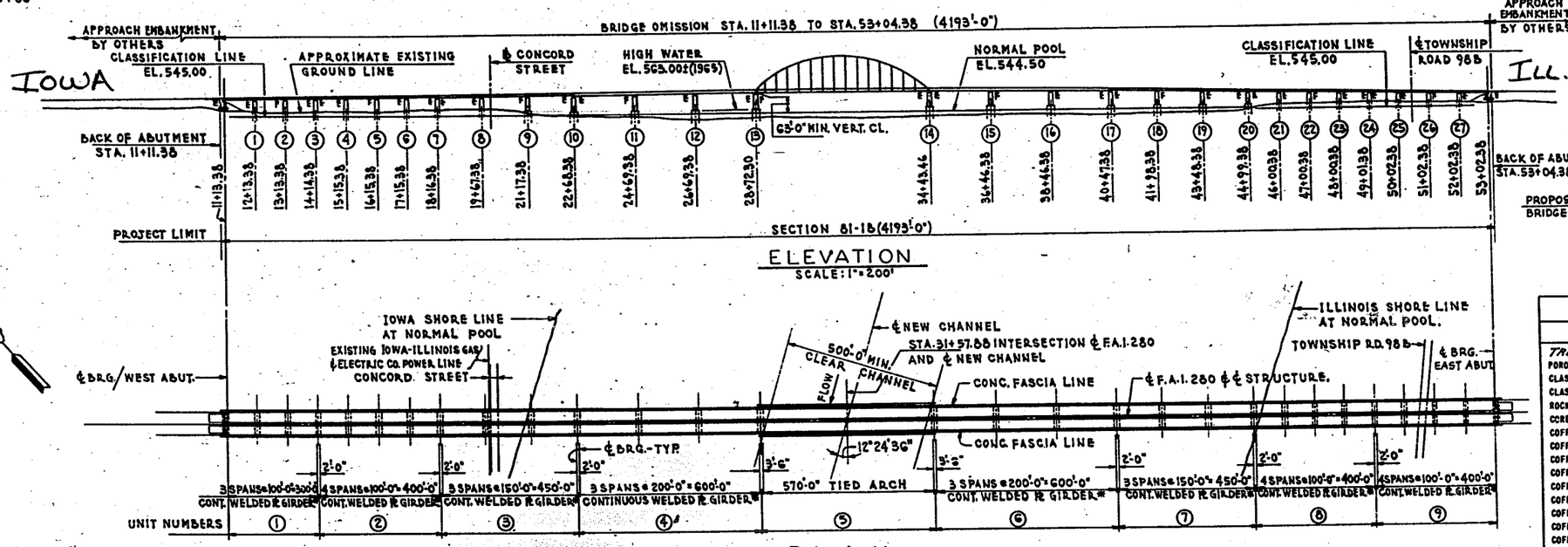
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	5
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



PROFILE GRADE
SCALE: 1" = 200'

NOTE: ALL ELEVATIONS REFERRED TO ARE BASED UPON 5TH GENERAL ADJUSTMENT-ILLINOIS.

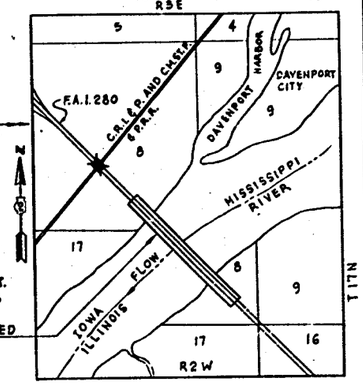
EQUATION
10 WA. STA. 119+98.38 = ILLINOIS STA. 0+00



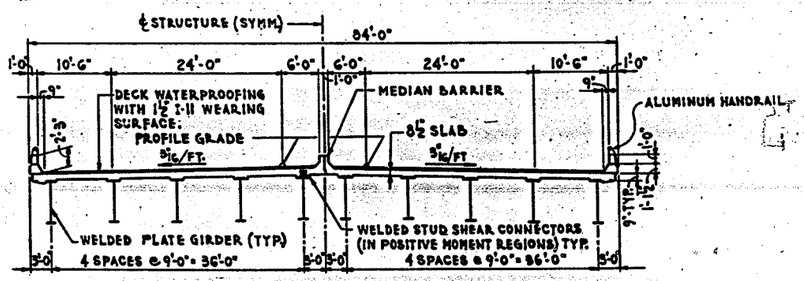
ELEVATION
SCALE: 1" = 200'

PLAN
SCALE: 1" = 200'

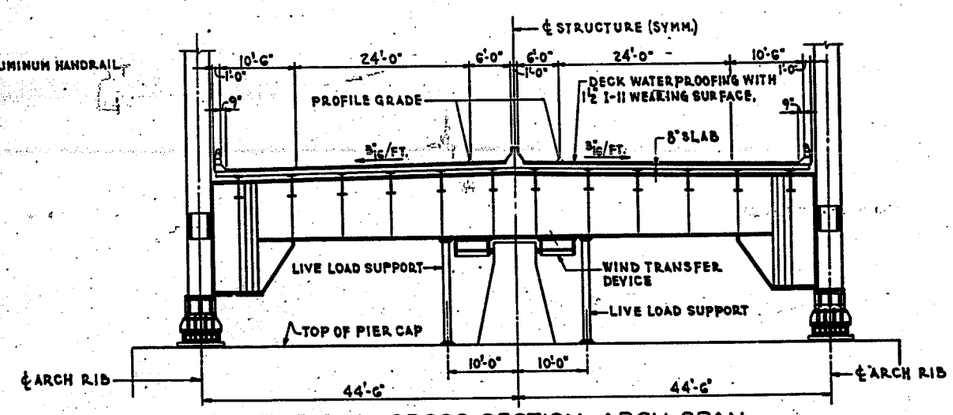
*INDICATES CONTINUOUS COMPOSITE CONSTRUCTION.



LOCATION PLAN



TYPICAL CROSS SECTION - APPROACH SPANS
SCALE: 1" = 10'



TYPICAL CROSS SECTION-ARCH SPAN
SHOWING AT END FLOOR BEAM
SCALE: 1" = 10'

WATERWAY INFORMATION

WATERWAY OPENING REQUIRED	26,000	SQ. FT.
WATERWAY OPENING PROVIDED	26,240	SQ. FT.
50 YEAR FREQUENCY DISCHARGE	293,000	CU. F.S.
50 YEAR HIGH WATER ELEVATION	562.5	
DRAINAGE AREA	99,200	SQ. MI.
MILES FROM MOUTH	1,560	MI.

QUANTITIES

ITEM	UNIT	QUANTITY
TREE REMOVAL (ACRES)	ACRE	5.9
POROUS GRANULAR EMBANKMENT	CU. YD.	270
CLASS "A" EXCAVATION FOR STRUCTURES	CU. YD.	9,763
CLASS "B" EXCAVATION FOR STRUCTURES	CU. YD.	*1,624*
ROCK EXCAVATION FOR STRUCTURES	CU. YD.	11,008
CORE BORINGS	LIN. FT.	540
COFFERDAM (PIER 9)	EACH	1
COFFERDAM (PIER 10)	EACH	1
COFFERDAM (PIER 11)	EACH	1
COFFERDAM (PIER 12)	EACH	1
COFFERDAM (PIER 13)	EACH	1
COFFERDAM (PIER 14)	EACH	1
COFFERDAM (PIER 15)	EACH	1
COFFERDAM (PIER 16)	EACH	1
COFFERDAM (PIER 17)	EACH	1
COFFERDAM (PIER 18)	EACH	1
COFFERDAM (PIER 19)	EACH	1
COFFERDAM (PIER 20)	EACH	1
CONCRETE SEAL	SQ. YD.	3,976
CLASS "X" CONCRETE	CU. YD.	31,668
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	20,240
REINFORCEMENT BARS	POUND	2,590,[illegible]
FURNISHING CREOSOTED PILES, 20.1 TO 36 FEET	LIN. FT.	420
FURNISHING CREOSOTED PILES, OVER 36 FEET	LIN. FT.	540
DRIVING TIMBER PILES	LIN. FT.	960
FURNISHING STEEL PILE (10BP42)	LIN. FT.	26,921
TEST PILES STEEL (10BP42)	EACH	18
DRIVING STEEL PILES (10BP42)	LIN. FT.	26,921
CLASS "X" CONCRETE ENCASEMENT	CU. YD.	26.0
NAME PLATE	EACH	2
SLOPE WALL (6")	SQ. YD.	5,835
ENGINEER'S FIELD OFFICE, TYPE A	EACH	1
ENGINEER'S FIELD LABORATORY	EACH	1
Cofferdam Excavation	*Cu. Yds*	*18,827*

GENERAL PLAN AND ELEVATION

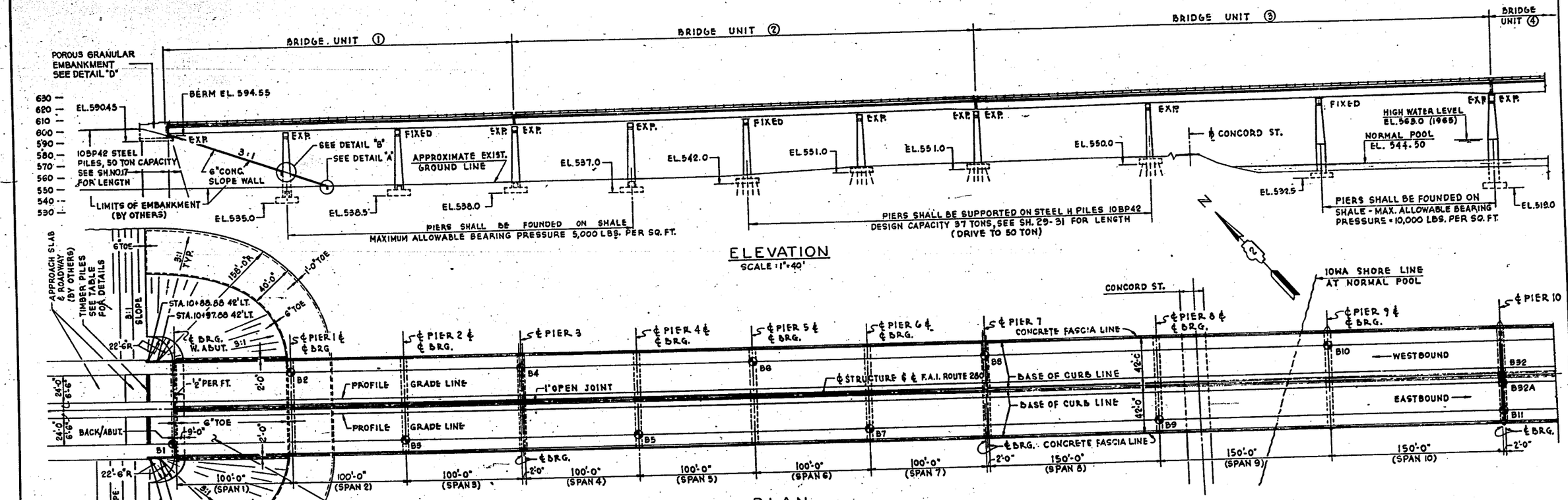
F.A.I. ROUTE 280 SECTION 81-1B
I-280 OVER MISSISSIPPI RIVER
SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.
STA. 11 + 11.38 TO STA. 53 + 04.38

SCALE: AS NOTED DATE: JULY 21, 1969

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY W. G. HORN
DRAWN BY A. BUROKAS
CHECKED
IN CHARGE
APPROVED W. G. HORN

Rev. Cl. B. Exc. from 20,451 to 1624 cu. yds., Added Cofferdam Ex. 18,827 cu. yds., Deleted Bridge Seat Sealant Lump Sum 1 10-16-69 S.F.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	6
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



APPROACH PILE DATA

WEST ABUTMENT	EAST ABUTMENT
TYPE: 12" CREOSOTE TIMBER PILE LENGTH: EACH : 45' LOCATION: STA. 10+91.88 LEFT: 7.5', 11.9', 16.5', 20.7', 25.1', ℄ 29.5' RIGHT: 7.5', 11.9', 16.5', 20.7', 25.1', ℄ 29.5' CUT OFF EL. 599.8	TYPE: 12" CREOSOTE TIMBER PILE LENGTH: 55' EACH LOCATIONS: STA. 58+24.88 ● LEFT: 7.5', 11.9', 16.5', 20.7', 25.1', ℄ 29.5' RIGHT: 7.5', 11.9', 16.5', 20.7', 25.1', ℄ 29.5' CUT-OFF EL. 589.8

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY W. G. HORN
DRAWN BY A. BUROKAS
CHECKED
IN CHARGE J. Y. HUANG
APPROVED W. G. HORN

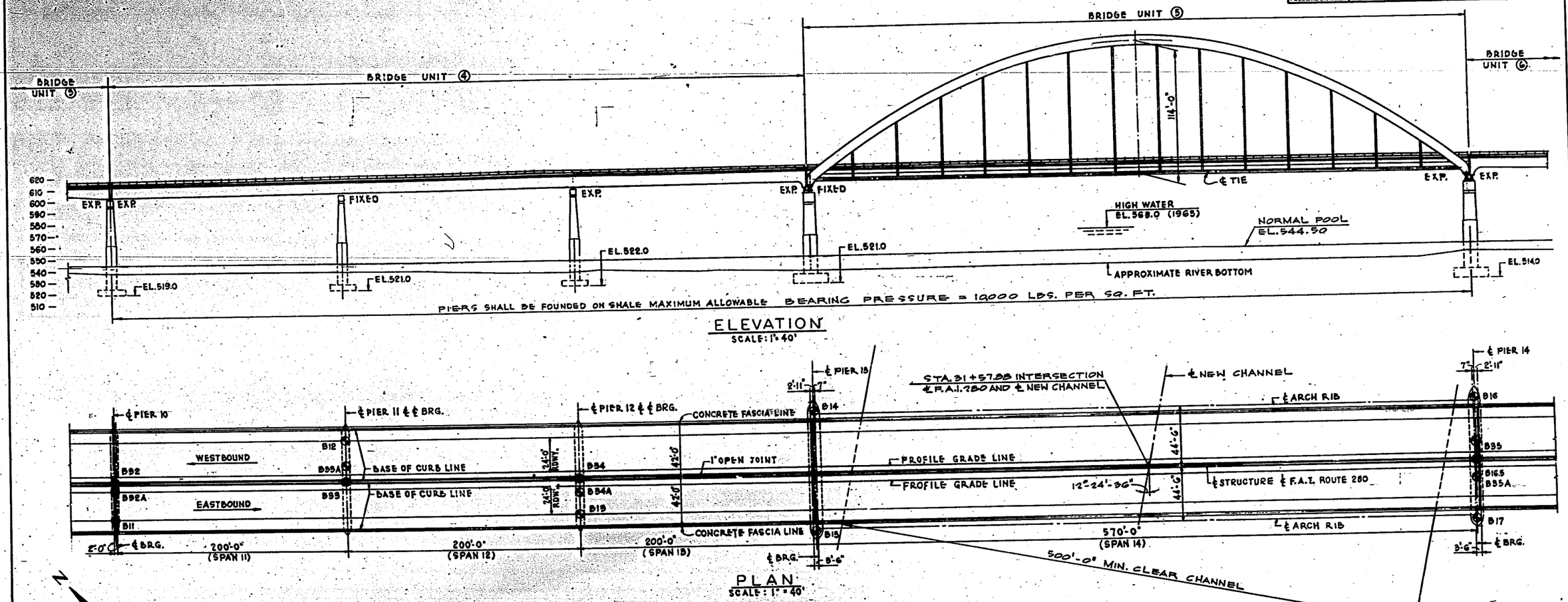
GENERAL PLAN, ELEVATION & GROUND PLAN
BRIDGE UNITS 1, 2 & 3

F.A.I. ROUTE 280 SECTION 81-1B
I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.
STA. 11 + 13.38 TO STA. 22 + 68.38

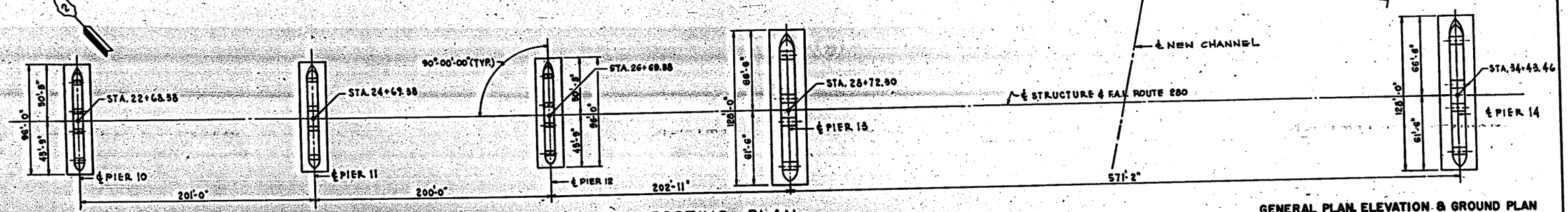
SCALE: AS NOTED DATE: JULY 21, 1969

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	7
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



ELEVATION
SCALE: 1" = 40'

PLAN
SCALE: 1" = 40'



FOOTING PLAN
SCALE: 1" = 40'

LEGEND
⊕ DENOTES BORING LOG

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY W. G. HORN
DRAWN BY A. BUROKAS
CHECKED
IN CHARGE J. Y. HUANG
APPROVED W. G. HORN

GENERAL PLAN, ELEVATION & GROUND PLAN
BRIDGE UNITS 4 & 5

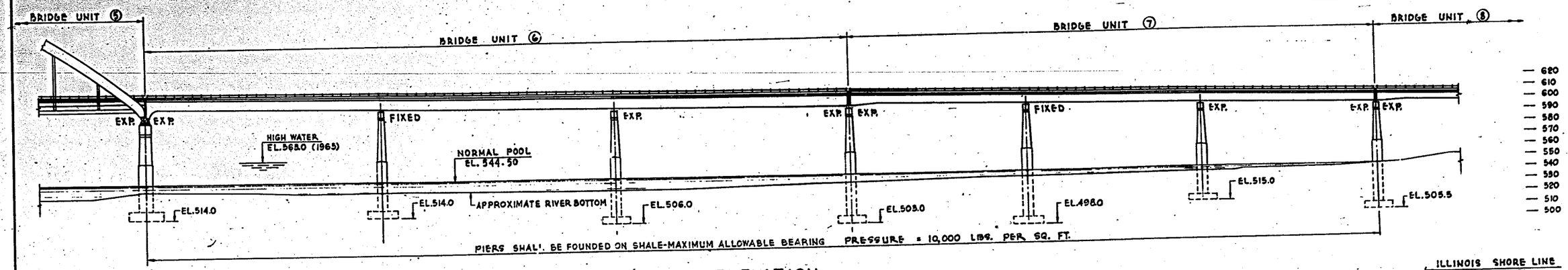
F.A.I. ROUTE 280 SECTION 81-1B
I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA – ROCK ISLAND COUNTY, ILL.

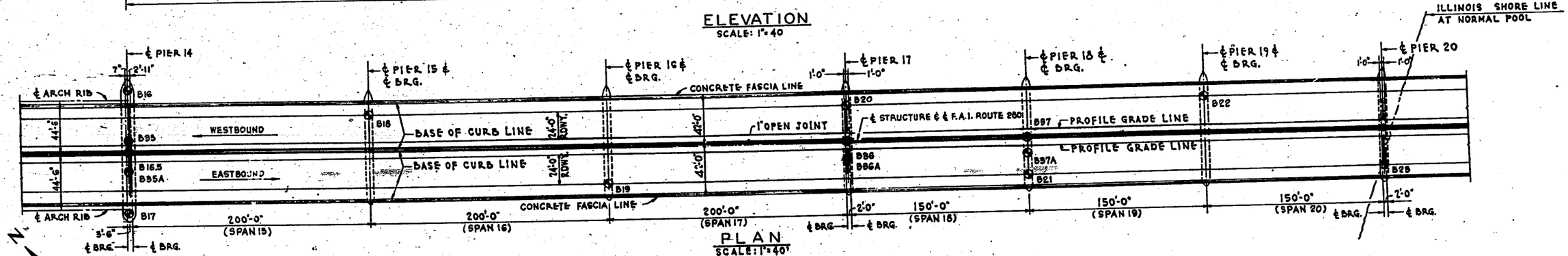
STA. 22+68.38 TO STA. 34+43.46

SCALE: AS NOTED DATE: JULY 21, 1969

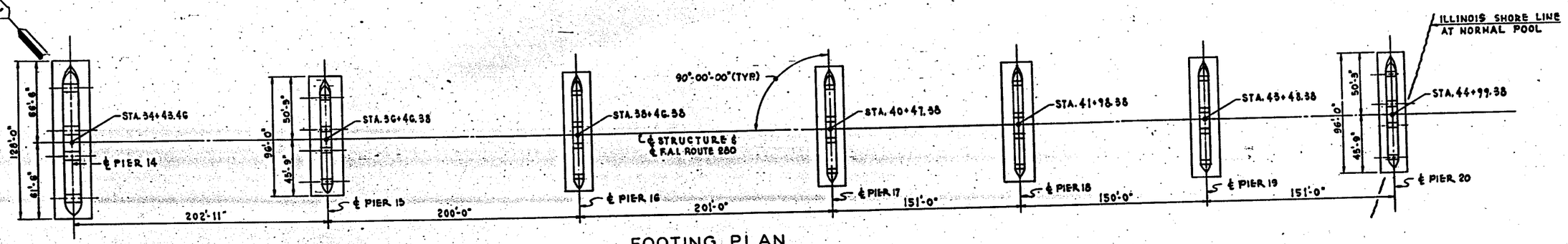
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	91-18	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	8
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



ELEVATION
SCALE: 1" = 40'



PLAN
SCALE: 1" = 40'



FOOTING PLAN
SCALE: 1" = 40'

LEGEND

⊙ DENOTES BORING LOG

DE LEUW, CATHER & COMPANY ENGINEERS
DESIGNED BY W. G. HORN
DRAWN BY A. BUROKAS
CHECKED
IN CHARGE J. Y. HUANG
APPROVED W. G. HORN

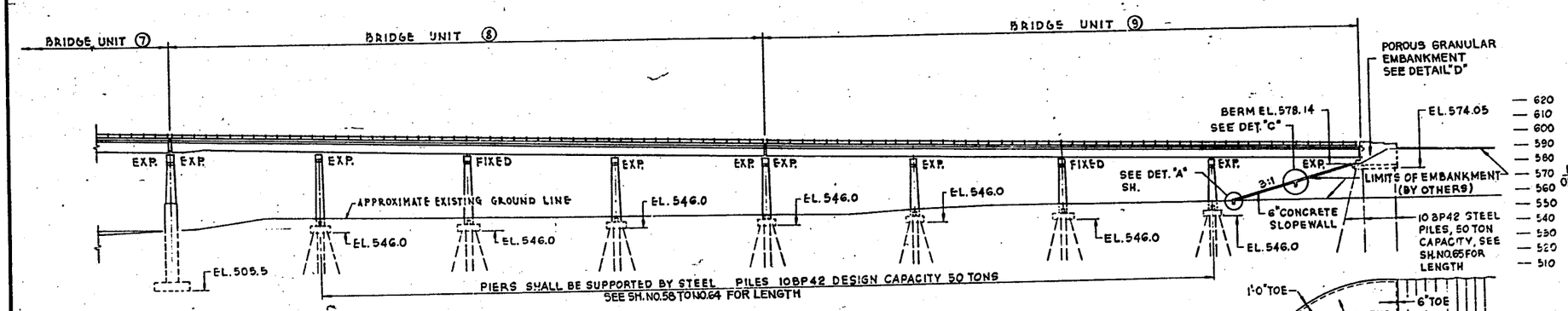
GENERAL PLAN, ELEVATION & GROUND PLAN
BRIDGE UNITS 6 & 7

F.A.I. ROUTE 280 SECTION 91-18
I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA – ROCK ISLAND COUNTY, ILL.
STA. 34+43.46 TO STA. 44+99.38

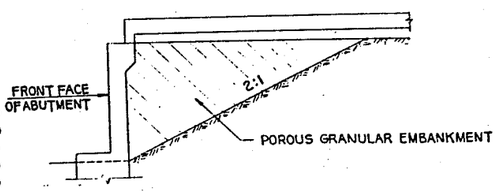
SCALE: AS NOTED DATE: JULY 21, 1969

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 280	81-1B	SCOTT COUNTY, IOWA ROCK ISLAND COUNTY, ILL.	67	9
FED. ROAD DIST. NO.		FED. AID PROJECT I-280		



ELEVATION

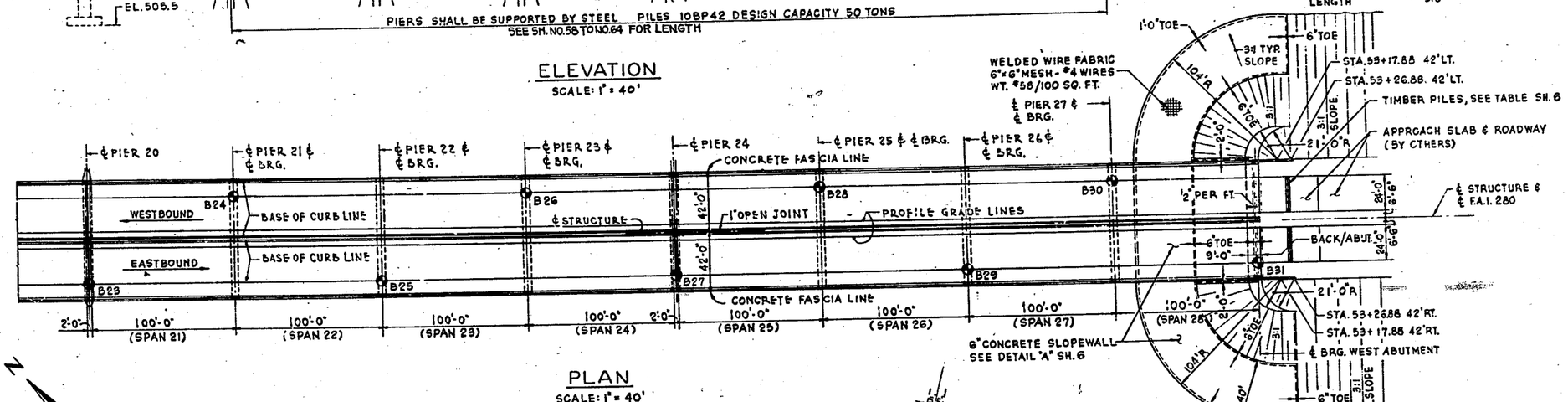
SCALE: 1" = 40'



DETAIL D

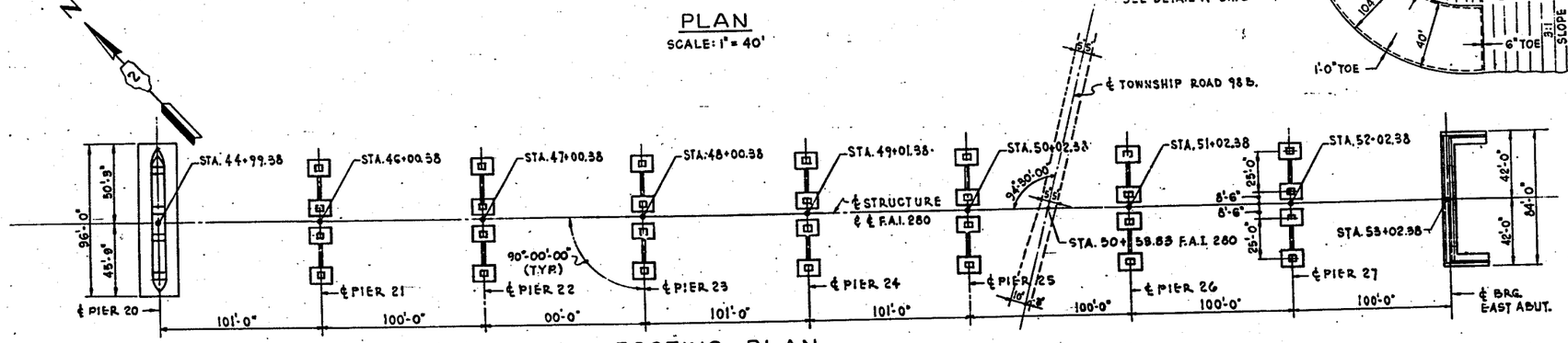
SCALE: 1/4" = 1'-0"

EAST ABUTMENT SHOWN
WEST ABUTMENT OPPOSITE HAND



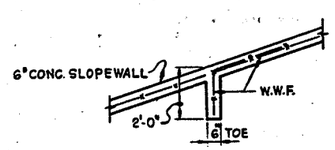
PLAN

SCALE: 1" = 40'



FOOTING PLAN

SCALE: 1" = 40'



DETAIL C

SCALE: 3/8" = 1'-0"

LEGEND

● DENOTES BORING LOG

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
SLOPEWALL (6")	SQ. YD.	5835
FURNISHING CREOSOTED PILES 20.1 FEET TO 38 FEET	LIN. FT.	420
FURNISHING CREOSOTED PILES OVER 38 FEET	LIN. FT.	540
DRIVING TIMBER PILES	LIN. FT.	960
POROUS GRANULAR EMBANKMENT	CU. YD.	270

QUANTITIES SHOWN ABOVE ARE FOR EAST & WEST ABUTMENTS.

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APPROVED W. G. HORN

GENERAL PLAN, ELEVATION & GROUND PLAN
BRIDGE UNITS 8 & 9

F.A.I. ROUTE 280 SECTION 81-1B
I-280 OVER MISSISSIPPI RIVER

SCOTT COUNTY, IOWA - ROCK ISLAND COUNTY, ILL.

STA. 44+99.38 TO STA. 53+02.38

SCALE: AS NOTED DATE: JULY 21, 1969