BM #A: R. R. SPIKE IN SECOND POWER POLE WEST OF BRIDGE
NORTH SIDE OF ROAD
ELEV. 722.75

BM #B: CHISELED "□" TOP OF OUTSIDE CORNER OF S.W. WINGWALL
ELEV. 721.45

BM #C: R. R. SPIKE IN FIRST POWER POLE
EAST OF BRIDGE
NORTH SIDE OF ROAD
ELEV. 720.93

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
	*	WOODFORD	17	11
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
6 SHEETS

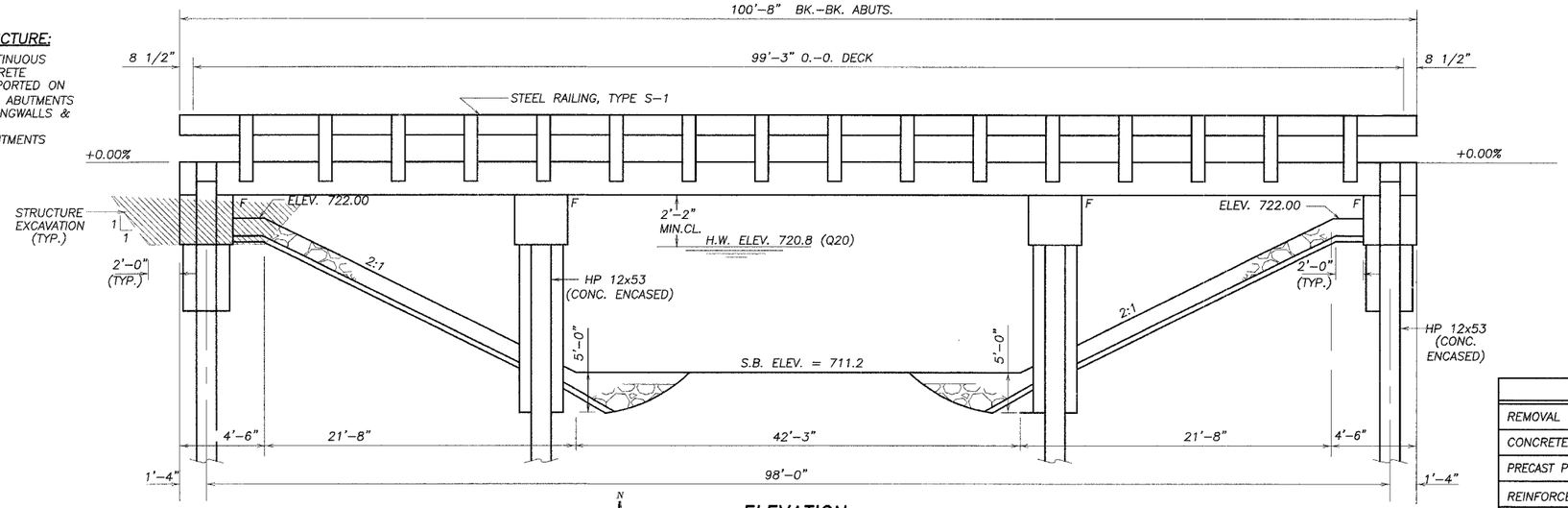
* Section 02-08143-00-BR
CONTRACT NO. 89390

EXISTING STRUCTURE:

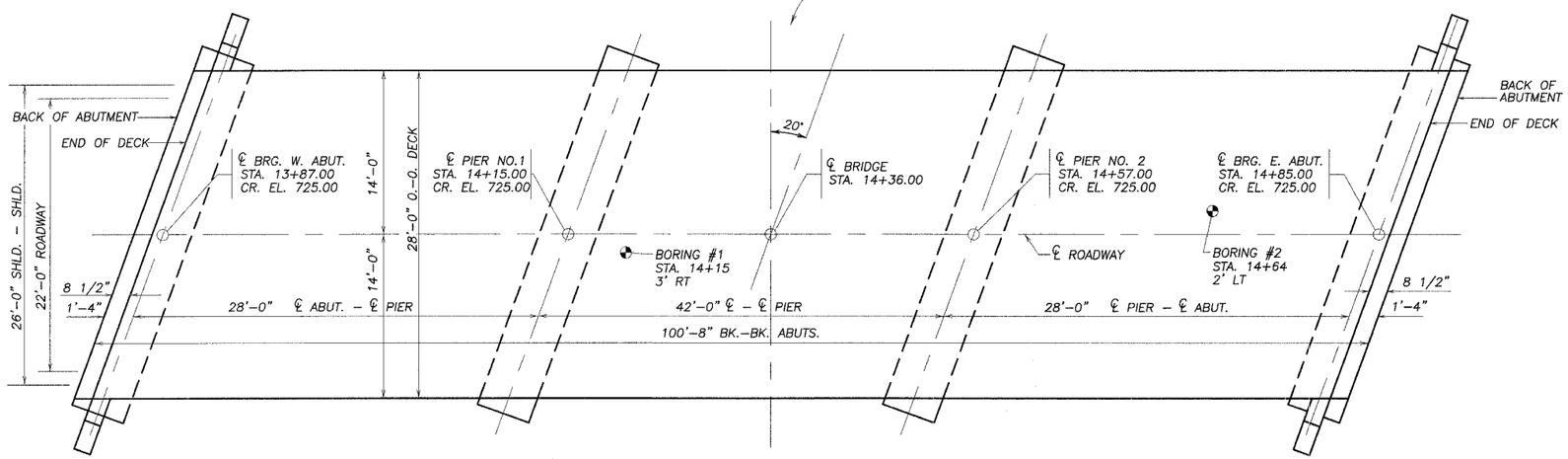
SINGLE SPAN CONTINUOUS REINFORCED CONCRETE BRIDGE SLAB SUPPORTED ON CLOSED CONCRETE ABUTMENTS WITH CONCRETE WINGWALLS & RAILING.
±40' BK.-BK. ABUTMENTS

SALVAGE:

NONE



ELEVATION



PLAN

GENERAL NOTES

AFTER THE EXISTING STRUCTURE IS REMOVED ANY SHAPING REQUIRED IN THE CHANNEL UNDER THE BRIDGE TO CONFORM TO THE ELEVATION VIEW SHALL BE CONSIDERED INCIDENTAL TO THE EARTH EXCAVATION QUANTITY.

THE CONTRACTOR SHALL DRIVE A STEEL HP 12x53 TEST PILE IN A PERMANENT LOCATION AT THE WEST ABUTMENT AND PIER 2 AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.

BACKFILLING OF ABUTMENTS SHALL NOT BE DONE UNTIL THE DECK BEAMS ARE IN PLACE AND THE DOWELS ARE GROUTED AND CURED.

A CALCIUM NITRITE CORROSION INHIBITOR, AS COVERED IN THE SPECIAL PROVISIONS, SHALL BE USED IN THE CONCRETE FOR THE PRECAST CONCRETE BRIDGE SLABS.

BROKEN CONCRETE FROM THE EXISTING STRUCTURE MEETING THE REQUIREMENTS OF ARTICLE 1005.02 OF THE STANDARD SPECIFICATIONS MAY BE USED IN THE GROUTED RIPRAP.

BILL OF MATERIAL — BRIDGE

ITEM	UNIT	SUPERSTR.	SUBSTR.	TOTAL
REMOVAL OF EXISTING STRUCTURES	each			1
CONCRETE STRUCTURES	cu. yd.		41.5	41.5
PRECAST PRESTRESSED CONCRETE DECK BEAMS - 21"	sq. ft.	2775		2775
REINFORCEMENT BARS, EPOXY COATED	pound		4520	4520
STEEL RAILING, TYPE S-1	ft.	200		200
FURNISHING STEEL PILES HP 12x53	ft.		936	936
DRIVING STEEL PILES	ft.		936	936
TEST PILE, STEEL HP 12x53	each		2	2
NAME PLATES	each			1
GROUTED RIPRAP	sq. yd.		574	574
FILTER FABRIC	sq. yd.		574	574
STRUCTURE EXCAVATION	cu. yd.		130	130
PROTECTIVE COAT	sq. yd.	348		348

WATERWAY INFORMATION

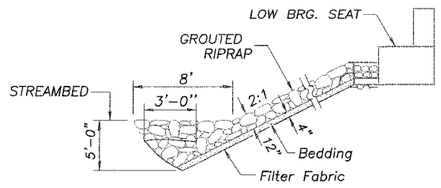
DRAINAGE AREA= 22.4 SQ.MI. LOW GRADE ELEV. 725.0 AT STA. 14+36

FLOOD	FREQ. YR.	Q. C.M.S.	OPENING FT² EXIST.	OPENING FT² PROP.	NAT. H.W.E.	HEAD FT EXIST.	HEAD FT PROP.	HEADWATER EL. EXIST.	HEADWATER EL. PROP.
DESIGN	20	1975	388	426	720.3	1.4	0.5	721.7	720.8
BASE	100	3000	388	502	720.8	1.6	1.0	722.4	721.8
OVERTOPPING									
MAX. CALC.	500	3950	388	582	721.2	1.7	1.5	722.9	722.7

WALNUT CREEK
BUILT 2006 BY
WOODFORD COUNTY
SECTION 02-08143-00-BR
STA. 14+36.00
STR. NO. 102-3203 LOADING HS 20

LETTERING FOR NAME PLATE

SEE STD. 515001



RIPRAP PROTECTION DETAIL

DESIGN STRESSES

PRECAST UNITS	FIELD POURED UNITS
f'c = 5000 PSI	f'c = 3500 PSI
f'ci = 4000 PSI	fy = 60,000 PSI (REINFORCEMENT)
fy = 60,000 PSI (REINFORCEMENT)	Fy = 36,000 PSI (HARDWARE)

DESIGN SPECIFICATIONS 2002 AASHTO
(ALLOWED FOR 25 PSF FOR FUTURE WEARING SURFACE.)

LOADING HS 20

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE/BOX CULVERT 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 AND ELEVATION
SECTION 02-08143-00-BR
METAMORA ROAD DISTRICT
WOODFORD COUNTY

GP-20