### DESIGN STRESSES

5,000 (PRESTRESSED BEAMS) (PRESTRESSED BEAMS)
(CLASS X CONCRETE) 4,000 3,500 P.S.J. P.S.J. (PRESTRESSED STRANDS) 270,000 189,000 P.S.J. (PRESTRESSED STRANDS) 60,000 P.S.J. (REINFORCEMENT BARS)

LOADING HS 20-44

DESIGN SPECS, 1996 AASHTO & 1997 THRU 2002 INTERIMS

EXISTING STRUCTURE NO. 015- 3180 - SINGLE SPAN CONCRETE DECK BEAM BRIDGE WITH TIMBER ABUTMENTS, SKEWED O DEGREES. REMOVAL OF EXISTING STRUCTURES = I EACH.

### GENERAL NOTES

SEE PLAN AND PROFILE SHEET FOR BORING LOCATION

BORING DATA IS SHOWN ONLY AS A GUIDE TO BIDDERS IN ESTIMATING SOIL CONDITIONS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION

SEE SHEET NO.8 FOR BORING DATA.

BORING \*2 INDICATES SAND EXISTS AT A DEPTH OF ABOUT IFOOT BELOW THE BOTTOM OF THE FOOTING, WITH CLAY

WE WILL CONSTRUCT ONE COFFERDAM AND EVALUATE THE SOIL CONDITIONS TO DETERMINE WHETHER A SECOND COFFERDAM WILL BE NECESSARY.

NO BACKFILL SHALL BE PLACED BEHIND THE PROPOSED ABUTMENTS UNTIL THE SUPER STRUCTURE IS DOWELLED IN PLACE, SEE ARTICLE 502JO OF THE STANDARD SPECIFICATIONS.

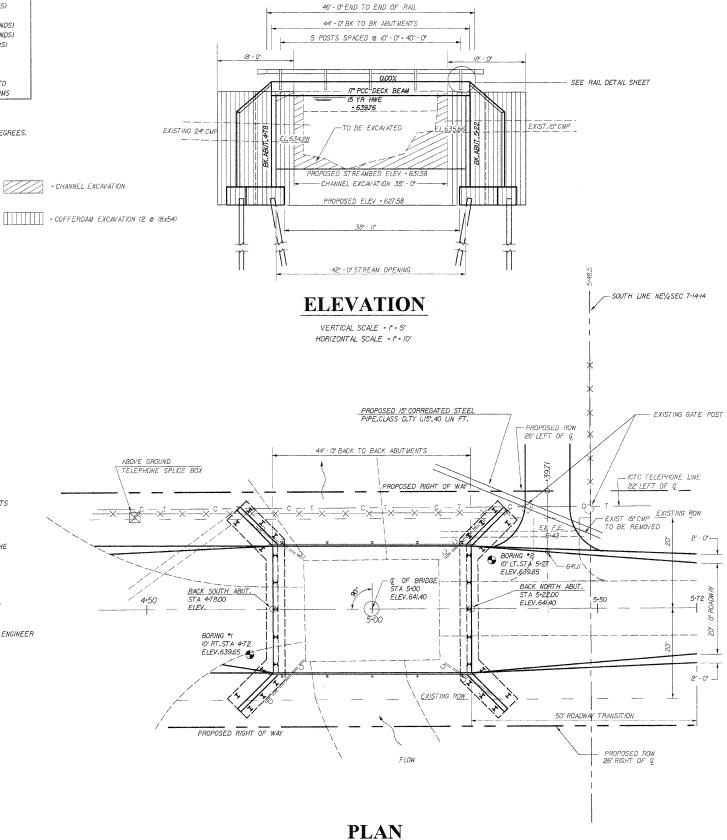
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M31,M42 OR M53 GRADE 60

LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER

BENCHMARK ELEV.638.88 RR SPIKE IN POWER POLE 20 RT.STA 5-72

CHANNEL EXCAVATION SHALL EXTEND TO PROPOSED RIGHT OF

IF RIPRAP IS NEEDED IT WILL BE PLACED AS DIRECTED BY ENGINEER



# CONTRACT NO. 95538

# TOTAL BILL OF MATERIAL

UNIT	SUPER	SUB	TOTAL
SQ.FT.	1232		1232
CU.YD.		92.6	92.6
POUND		4950	4950
FOOT	92		92
EACH	1		/
FOOT		1392	/392
F00T		1392	/392
EACH		1	1
CU.YD.		175	175
TON		50	50
CU.YD.		817	817
EACH	1		1
EACH		2	2
	SO.FT.  CU.YD.  POUND  FOOT  EACH  FOOT  EACH  CU.YD.  TON  CU.YD.  EACH	SO.FT.	SO.FT. 1232  CU.YD. 92.6  POUND 4950  FOOT 92  EACH   1  FOOT 1392  FOOT 1392  EACH   1  CU.YD. 175  TON 50  CU.YD. 817  EACH

## WATERWAY INFORMATION

PROPOSED LOW GRADE = 640.25 @ STA 7+00

DRAINAGE AREA = 14.02 SQ.MI. EXIST LOW GRADE ELEV.639.18 AT STATION 6+50										
FLOOD	FREQ.	а	OPENING SQ.FT.		NAT.	HEAD - FOOT		HEADWATER EL.		
	YR.	C.F.S.	EXISTING	PROP.	H.W.E.	EXIST.	PROP.	EXIST.	PROP.	
DESIGN	15	842	136	308	639.76	0.39	0.33	640.15	640.09	
BASE	100	1257	136	308	640.36	0.28	0.70	640.64	641.06	
OVERTOPPING EXIST 15 YR OTR FLOW - 358 CFS PROPOSED OTR FLOW - 0 CFS										
MAX.CALC.	EXIST 100 Y	ROTR	FLOW = 831 CF	S PROPO	SED OTR	FLOW = .	209 CFS			

SEC.06-03123-00-BR BUILT 200 EAST OAKLAND ROAD DIST. COLES COUNTY LOADING HS 20 BROS-029 (281) STR.NO.015-3421

## NAME PLATE DETAIL

(SEE STANDARD 5/500/)



SCALE 1" = 10'

"I certify that to the bast 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 "AAS.H.T.D. Staypard Specifications for Highway Bridges."

\*\*Lobert L. M.S. United States (16-14-01) Robert L. McClintock | ILL.S.E.\* 3/37

License Expires II-I3-08

MCCLINTOCK

CIVIL ENGINEERING SERVICE
404 SHAW STRET, PARIS IL 61944
PHONE (217) 466-6110 GENERAL PLAN & ELEVATION SEC.06-03/23-00-BR DATE 4/10/07 DRN SDE SHEET 4 OF 13 EAST OAKLAND ROAD DIST. COLES COUNTY JOB NO.3/37-729-06