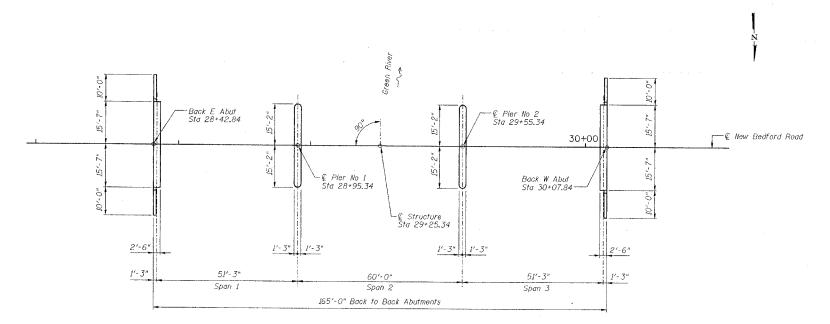
## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Sheet No. 2 of 16 Sheets

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	
SBI 88	103C-BR	BUREAU		51	13	
FED.ROAD DIST.NO.		ILLINOIS	PROJEC	OJECT		

CONTRACT #64423



FOUNDATION PLAN

	INTERI	OR BEAM MOME	NT TABLE	
		0.4 Sp. #1 0.6 Sp. #3	Pier 1 or 2	0.5 Sp. #2
Strand P	attern			-
I	(in 4)	48,648		48,648
I'	(in 4)	167,248		167,248
$S_b$	(in 3)	<i>31</i> 65		3165
Sb'	(in 3)	5815		<i>581</i> 5
St	(in <sup>3</sup> )	2358		2358
S <sub>f</sub> '	(in 3)	23,107		23,107
Q.	(k/')	0.988		0.988
м 2	(%)	312		411
s <b>Q</b>	(k/')	0,440	0.440	0.440
Ms@	(%)	82	141	67
M 4	('k)	293	228	287
M (Imp)	('k)	84	66	77

INTERIOR BEAM REACTION TABLE						
		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2		
R₽	(k)	25.3	25.3	29.1		
Rs₽	(k)	9	14.2	14.2		
R Ł	(k)	35.2	21.6	21.6		
Imρ.	(k)	10.0	5	5		
Ř (Total)	(k)	79.5	66.1	69.9		

All Construction joints shall be bonded.

Reinforcement bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

The Confractor shall drive one test pile each in a permanent location at each abutment and each pier as directed by the Engineer before ordering the

GENERAL NOTES

remainder of piles.

## TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu Yd		152	152
Stone Riprap, Class A5	Sq Yd		695	695
Filter Fabric for Use with Riprap	Sq Yd		695	695
Removal of Existing Structures	L Sum	1		1
Structure Excavation	Cu Yd		192	192
Floor Drains	Each	18		18
Concrete Structures	Cu Yd		131.6	131.6
Concrete Superstructure	Cu Yd	196.2		196.2
Bridge Deck Grooving	Sg Yd	477		477
Protective Coat	Sq Yd	652		652
Furnishing and Erecting Precast Prestressed Concrete I-Beams (36" Depth)	Foot	815.0		815.0
Reinforcement Bars, Epoxy Coated	Pound	40,180	10,440	50,620
Furnishing Steel Piles HP12x74	Foot		1998	1998
Driving Steel Piles	Foot		1998	1998
Test Pile Steel HP12x74	Each		4	4
Name Plates	Each	1		1
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Bar Splicers	Each	56		56

## NEW BEDFORD ROAD OVER GREEN RIVER

REV	VISIONS	STATE	OF ILLINOIS					ATE
No. DA	TE INTIALS	DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS					CMV 4/0	
3 4 5		SBI 88 SPUR	006-0163	SECTI	ON 1030	-BR		10
7 8		STA 29+25.34		BUR	EAU COU	UNTY	PROJECT No.	
10 10 10		HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001397			SHEET No.	1		

I and I' are the moment of inertia and composite moment of inertia of the beam section. So and So' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam. So and So' are the non-composite and composite section modulus for the top fiber of the prestressed beam.