

,	F.A.I.	SECTION	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	UNTY	TOTAL SHEETS	SHEET ND.
	55	27 BR	W	TLL .	29	1,0
PEO. ROAD DIST. NO. 7			ILLINOIS	FED. AID PR	OJECT-	

Contract No.: 62424

SHEET NO. 1 of 8

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.		11.2	11.2
Concrete Removal	Cu. Yd.		6.4	6.4
Protective Coat	Sq. Yd.	108		108
Removal of Existing Superstructures	Each	1		1
Structure Excavation	Cu. Yd.		11.2	11.2
Concrete Structures	Cu. Yd.		6.2	6.2
Concrete Superstructure	Cu. Yd.	39.0		39.0
Bridge Deck Grooving	Sq. Yd.	83		83
Reinforcement Bars, Epoxy Coated	Pound	8820	1080	9900
Temporary Wall Bracing System	L. Sum			1
Name Plates	Each	1		1
Bar Splicers	Each	46	12	58
Formed Concrete Repair (Depth'equal to or less than 5")	Sq. Ft.		16	16
Epoxy Crack Sealing	Foot		47	47

INDEX OF SHEETS

Description	
ral Plan e Construction Details rstructure Details o Abutment h Abutment Splicer Assembly Details porary Concrete Barrier or Stage Construction	LOADING HS20-44 Allow 50#/sq. ft. for future wearing surface. DESIGN SPECIFICATIONS 2002 AASHTO
	DESIGN STRESSES
C. = 100' +0.530'	$\frac{New Construction}{f_{6}^{*} = 3,500 \text{ psi}}$ $f_{y}^{*} = 60,000 \text{ psi} \text{ (reinforcement)}$ $\frac{Existing Construction}{f_{6}^{*} = 800 \text{ psi} \text{ (substructure)}}$
<u>105+15.</u> <u>593.86</u> 1 <u>05+</u> (10. <u>594.1</u>	fs = 20,000 psi (reinforcement) SEISMIC DATA
<u>PVI Sta. IC</u> Elev. 55 <u>PVT Sta.</u> Elev.	Seismic Performance Category (SPC) = A Bedrock Acceleration Coefficient (A) = .04g Site Coefficient (S) = 1.2

WATERWAY INFORMATION

= 5.30	mi.²	Low Gro	ade Elev.	594.0	0 3	Sta. 105	+23	
Freq.	Q	Opening	Sq. Ft.	Nat.	Head	1-Ft.	Headwa	nter El.
Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
10	410	152	152	589.3	0.2	0.2	589.5	589.5
50	700	155	155	589.4	0.5	0.5	589.9	589.9
100	850	157	157	589.5	0.8	0.8	590.3	590.3
	-	-	-		-		-	-
500	1440	163	163	589,8	1.9	1.9	591.7	591.7

REVISION	1S	ILLINOIS DEPARTMENT OF TRANSPORTATIO	N		
NAME	DATE	GENERAL PLAN			
		FAI RTE. 55 (EAST FRONTAGE ROAD)			
		TAL KIE. JJ KEAST FRONTAGE ROAD			
	_	OVER SUNNYLAND DRAIN			
		SECTION 27 BR			
		WILL COUNTY			
		STATION 105+12.13			
		STRUCTURE NO. 099-0032			
		DATE: 11/10/04 DRAWN BY BLB CHECKED BY WJV			