

## EXISTING PIER CAP END ELEVATION

NOTE: Bar sizes and locations were taken from the existing plans. After concrete removal and cleaning of existing reinforcing, bars that have more than surface corrosian should have a new epoxy coated replacment bar "\*" lapped next to the damaged bar. See bar list and diarams. and diagrams.

	BILL OF MATERIAL PER PIER CAP END									
	Bar	No.	Size	Length	Shape					
	d (E)	23	#4	1'-4''	<u> </u>					
	h (E)	4	# 5	4'-0"						
	p <sub>1</sub> (E)	4	# 5	2'-9"						
*	p <sub>2</sub> (E)	4	# 5	5'-4''						
	u (E)	3	# 5	7'-0''						
*	u <sub>l</sub> (E) u <sub>2</sub> (E)	6	# 5	7'-2"						
	Concrete		Cu. Yds.	0.9						
	Concrete	Structures	Cu. Yds.	0.9						
	Reinforce Epoxy Co	ment Bars ated	Lbs.	170						

Reinforcement bars designated (E) shall be epoxy coated.

Bars with an "\*" refer to the epoxy coated replacement bar to be lapped next to the original bar. Bars may be cut to fit at the direction of Engineer.

This Bill of Material is based upon complete bar replacement. Replace bars at the direction of the Engineer, Adhesive Anchor all d (E) bars



BAR d #4 d (E) dowels = 9 in east face = 9 in west face = 3 in bottom face = 2 in east/west end

10"

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Stagger to avoid conflicts between faces. Epoxy anchor using EPCON 6 ceramic 2-part expoxy or Hilti 2-part adhesive HIT-RE 500-SD in holes 7" deep into concrete. Cost of anchorage is included with the cost of Reinforcing Bars, Epoxy Coated.



PROPOSED PIER CAP END REPAIR ELEVATION





CONCRETE SEALER APPLICATION





DSC	GNK.J. Hoffmann	T							PIER CAP REPAIRS	SHEET 41
DR	K.J. Hoffmann						rkauennuffek	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	FAS 447 (C.H. 17) OVER SPOON RIVER	DWG 8015PIER.dgn
	<sup>K</sup> J.A.Frauenhoffer						Frauenhoffer and Associates, P.C. Consulting Engineers 3002 Crossing Court Champaign, II. 61822 217-351-6268		SECTION OB-00121-01-BR FULTON COUNTY	DATE JAN 2010 PROJ 8015
	∨9.A.Frauenhoffer	NO.	DATE	REVISION	BY	APVD				NO. 8015

BILL	0F	MA7	ERIAL	- 4	PIERS

LOCATION	Pier 1	Pier 2	Pier 3	Pier 4	Unit	Total
Concrete Removal	0.0	1.8	1.8	0.9	C.Y.	4.5
Concrete Structures	0.0	1.8	1.8	0.9	C.Y.	4.5
Reinforcing Bars, Epoxy Coated	0.0	340	340	170	Pound	850
Concrete Sealer	53	53	53	53	Sqft.	212