

129241

## Crawford County Day Labor Bridge Construction

Prepared By: TERRY

Date: 11-28-10

Township: Hanover

Section: 1+2

E911 Rd: 210<sup>th</sup>

FHWA No.: 129241

Date Reconstructed: 2010

Describe Work:

Center Span 40'

Bridge Length: <u>101'</u>	Bridge Width: <u>24'</u>	Open Depth: <u>18'</u>
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Beam Info	Deck Info	Diaphragm Info
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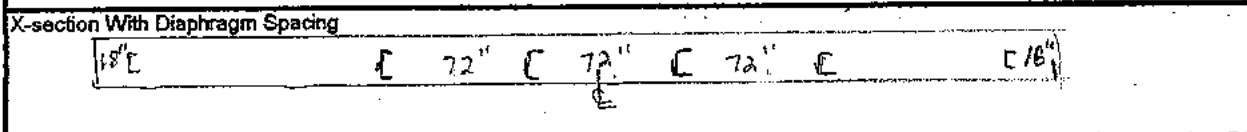
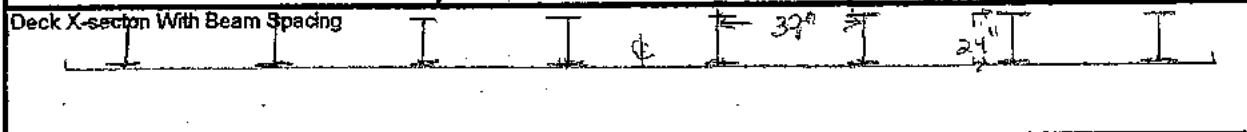
Beam Type: <u>(W) S</u>	Deck Type: <u>WOOD</u>	# Bolts per Angle: <u>3</u>
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Beam Spacing: <u>39 C-C</u>	Top: <u>3" x 12" Longitudinal</u>	Bolt Size: <u>7/8"</u>
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Beam Depth: <u>24"</u>	Bottom: <u>4" x 16" Transverse</u>	Diaphragm Length: <u>38.5"</u>
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Flange:	Width: <u>9"</u>	Thickness: <u>3/4"</u>	Spacing on Bottom: <u>28" C-C</u>	Diaphragm Size: <u>10"</u>
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Web Thickness: <u>1/2"</u>	<u>12"</u>	
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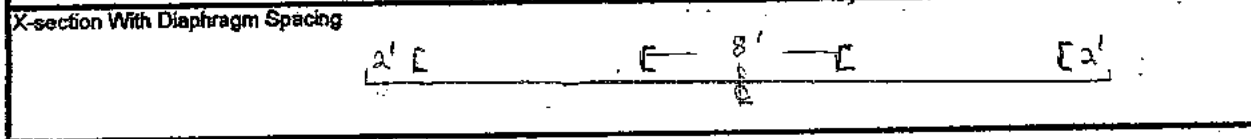
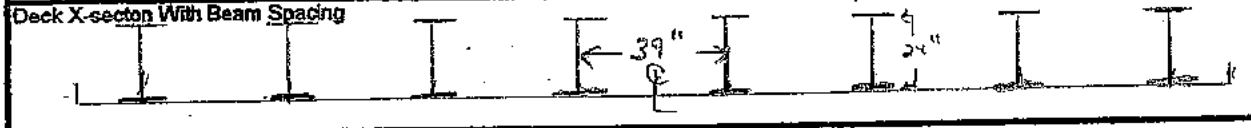
Substructure Comments: 8 - 10" x 10" x 50' H piling in Pier with 12" channel X bracing

Comments: Abutments have 6 - 10" x 10" x 50' H piling

# Crawford County Day Labor Bridge Construction

Prepared By: TERRY Date: 11-28-10  
 Township: Hanover Section: 142 E911 Rd.: 210<sup>th</sup>  
 FHWA No.: 129241 Date Reconstructed: 2010  
 Describe Work: North approach 31'

Bridge Length: <u>101'</u>	Bridge Width: <u>24'</u>	Open Depth:				
Beam Info	Deck Info	Diaphragm Info				
Beam Type: <u>(W) S</u>	Deck Type: <u>WOOD</u>	# Bolts per Angle: <u>3</u>				
Beam Spacing: <u>39" C-C</u>	Top: <u>3" x 12" Longitudinal</u>	Bolt Size: <u>7/8"</u>				
Beam Depth: <u>24"</u>	Bottom: <u>4" x 16" Transverse</u>	Diaphragm Length: <u>38.5"</u>				
Flange: <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 50px;">Width</td><td style="width: 50px;">Thickness</td></tr><tr><td style="text-align: center;"><u>9"</u></td><td style="text-align: center;"><u>3/4"</u></td></tr></table>	Width	Thickness	<u>9"</u>	<u>3/4"</u>	Spacing on Bottom: <u>28" C-C</u>	Diaphragm Size: <u>10"</u>
Width	Thickness					
<u>9"</u>	<u>3/4"</u>					
Web Thickness: <u>1/2"</u>	<u>12</u>					



Substructure Comments: 8 - 10" x 10" x 50' H piling in north abutment with 12" channel X bracing

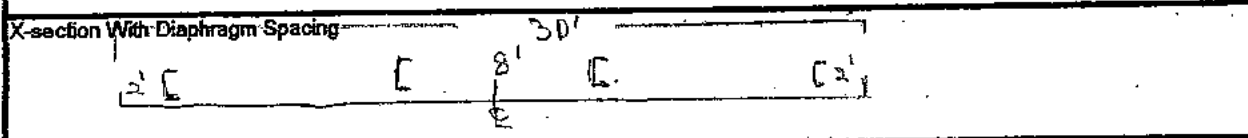
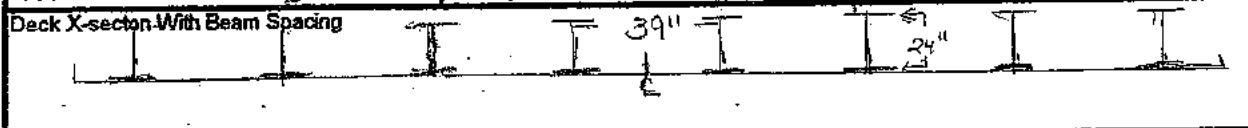
Comments: Abutments have 10 - 10" x 10" x 50' H piling

# Crawford County Day Labor Bridge Construction

Prepared By: TERRY Date: 11-28-10  
 Township: Hanover Section: 1+2 E911 Rd: 210<sup>th</sup>  
 FHWA No.: 129241 Date Reconstructed: 2010

Describe Work: South Approach 30'

Bridge Length: <u>101'</u>	Bridge Width: <u>24'</u>	Open Depth: <u>    </u>				
Beam Info.	Deck Info.	Diaphragm Info.				
Beam Type: <u>(W) S</u>	Deck Type: <u>WOOD</u>	# Bolts per Angle: <u>3</u>				
Beam Spacing: <u>39" C-C</u>	Top: <u>3" x 12" Longitudinal</u>	Bolt Size: <u>7/8"</u>				
Beam Depth: <u>24"</u>	Bottom: <u>4" x 16" Transverse</u>	Diaphragm Length: <u>38.5</u>				
Flange: <table style="display: inline-table; border: none;"><tr><td style="border: none; padding-right: 5px;">Width</td><td style="border: none; padding-right: 5px;">Thickness</td></tr><tr><td style="border: none; text-align: center;">9"</td><td style="border: none; text-align: center;">3/4"</td></tr></table>	Width	Thickness	9"	3/4"	Spacing on Bottom: <u>28" C-C</u>	Diaphragm Size: <u>10"</u>
Width	Thickness					
9"	3/4"					
Web Thickness: <u>1/2"</u>	<u>12"</u>					



Substructure Comments: 8- 10" x 10" x 50' H piling in south pier with 12' channel x bracing

Comments: Abutments have 6- 10" x 10" x 50' H piling

129241

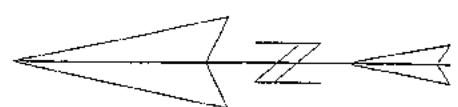
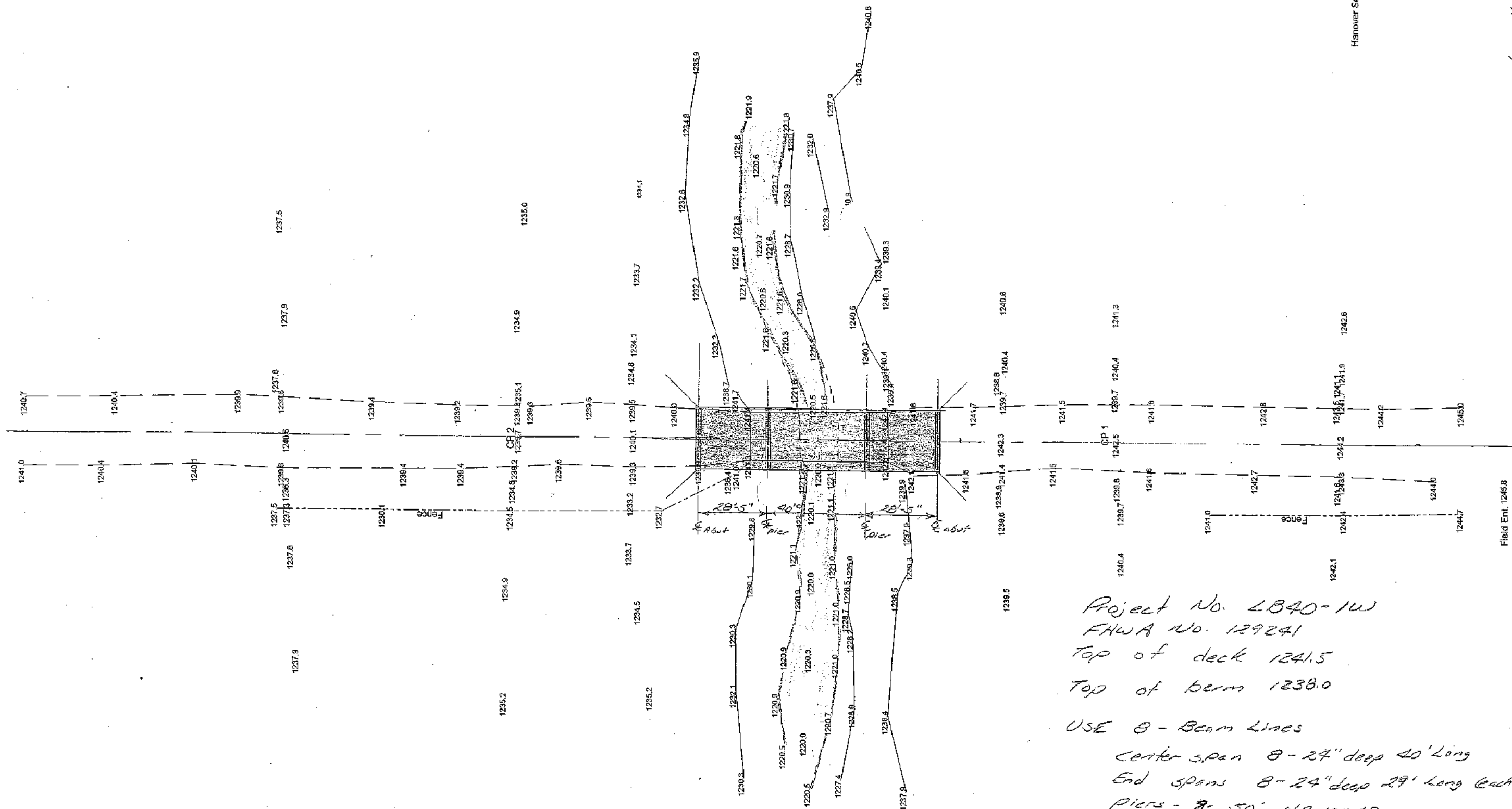
Result Copy

Project Number: LB40-1W		CRAWFORD COUNTY DAY LABOR PROJECT SHEET																									Date: September 24, 2010								
Location: 120710h										Section: 1 & 2															Township: Hanover										
Description of Work: Replace old 4 ton bridge with new 3 span, I beam bridge with wings.																									FHWA No: 129241										
For the month of: July																											Bridge Type: I beam								
Employee	Hours worked per day																															Total Hours	Hourly Rate	Totals	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Terry Lally																												8	8	8			24	\$ 39.66	\$951.84
Dan Blunk																												8	8	8			24	\$ 33.33	\$799.92
Howard Clark																												8	8	8			24	\$ 31.07	\$745.68
Kenny Miller																												8	8	8			24	\$ 29.43	\$706.32
Beery Tim																																	0	\$ 26.24	\$0.00
Zack Wolf																												8	8	8			24	\$ 11.14	\$267.36
Mike Rothe																												8	8	8			24	\$ 10.23	\$245.52
Matt Eiten																																	0	\$ 10.23	\$0.00
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																																	0	\$ -	\$0.00
																									Labor Cost:		\$3,716.64								
Equipment	Hours worked per day																															Total Hours	Hourly Rate	Totals	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
#83 Cat Excavater																																	0	\$ 83.90	\$0.00
#73 Link Belt Crane																													3			3	\$ 117.97	\$353.91	
#103 Tele-Crane																																0	\$ 107.68	\$0.00	
#75 IH Dozer																											2	4	6			12	\$ 51.45	\$617.40	
#59 J. D. Dozer																											2	3				5	\$ 33.58	\$167.90	
#32 J.D. crawler																																0	\$ 33.58	\$0.00	
#97 air comp.																																0	\$ 10.00	\$0.00	
#63 Welder																																0	\$ 10.00	\$0.00	
#18 Tool Truck																											2	2	2			6	\$ 6.94	\$41.64	
#68 Cat Excavater																											7	6	7			20	\$ 83.90	\$1,678.00	
																																0	\$ -	\$0.00	
																																0	\$ -	\$0.00	
																									Equipment Costs:		\$2,858.85								
No. of pieces	Size	Materials List	Stockpile location or purchased from	New/Used	No. Units	* Units	Unit Cost	Total Costs	Total Labor Costs: \$3,716.64																										
28	10"x10"	50' steel H piling	stock	New/	28	each	\$ 826.35	\$ 23,137.80	Materials (page 1): \$ 32,641.68																										
2	15"x16"x1/2"	25' pier caps	stock	New/	2	each	\$ 565.40	\$ 1,130.80	Materials (page 2): \$ -																										
2	10"x14"x1/2"	25' abutment caps	stock	New/	2	each	\$ 565.40	\$ 1,130.80																											
8	30'	wood piling	stock	New/	8	each	\$ 280.71	\$ 2,245.68																											
98	38.5"	10" diaphragms	stock	New/	98	each	\$ 37.43	\$ 3,668.14	Total Material Cost: \$32,641.68																										
4	12"x28'	C-channel	stock	used	4	each	\$ 138.60	\$ 554.40																											
34	85#	rail posts	stock	New/	34	each	\$ 12.75	\$ 433.50	Equipment Costs: \$2,858.85																										
8	26'	guard rail	stock	used	8	each	\$ 26.00	\$ 208.00																											
4	4"x6"	16' nailers	stock	New/	4	each	\$ 33.14	\$ 132.56	Total Costs: \$39,217.17																										
Material Costs (page 1): \$ 32,641.68																																			

114,250.36

Project Number: LB40-1W		CRAWFORD COUNTY DAY LABOR PROJECT SHEET																												Date: September 24, 2010					
Location: 120710h-2														Section: 1 & 2														Township: Hanover							
Description of Work:		New I beam bridge.																												FHWA No: 129241					
For the month of:																														Bridge Type:					
Aug.																														I beam					
Employee	Hours worked per day																															Total Hours	Hourly Rate	Totals	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
Terry Lally				8	8				4	8	4	8	8			8		8	8				8	8	8	8				8	8	120	\$ 39.66	\$4,759.20	
Dan Blunk				8	8	4			4	8	8	8	8			8		8	8				8	8	8	8				8		120	\$ 33.33	\$3,999.60	
Howard Clark				8	8	4										8		8	8				8	8	8	8				8	8	92	\$ 31.07	\$2,858.44	
Kenny Miller				8	8	4			4	8	8	8	8			8		8	8				8	8	8	8				8	8	128	\$ 29.43	\$3,767.04	
Beery Tim																															0	\$ 26.24	\$0.00		
Zack Wolf				8	8	4			4	8	4	8	8			8		8	8												76	\$ 11.14	\$846.64		
Mike Rothe									4	8	4	8	8																		32	\$ 10.23	\$327.36		
Matt Eiten																														8	8	\$ 10.23	\$81.84		
																															0	\$ -	\$0.00		
																															0	\$ -	\$0.00		
																															0	\$ -	\$0.00		
																																	Labor Cost:		\$16,640.12
Equipment	Hours worked per day																															Total Hours	Hourly Rate	Totals	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				
#83 Cat Excavator																																0	\$ 83.90	\$0.00	
#73 Link Belt Crane						6			4			4	7			2		4					5	2	4					4	1	43	\$ 117.97	\$5,072.71	
#103 Tele-Crane																																0	\$ 107.68	\$0.00	
#75 IH Dozer				4		1			3										5												13	\$ 51.45	\$668.85		
#59 J. D. Dozer																											3				3	\$ 33.58	\$100.74		
#32 J.D. crawler																		1									2				3	\$ 33.58	\$100.74		
#97 air comp.																															0	\$ 10.00	\$0.00		
#63 Welder										4	6					4			4				6	6	7					5	42	\$ 10.00	\$420.00		
#18 Tool Truck				2	2	2			2	2	2	2	2			2		2	2				2	2	2	2				2	2	34	\$ 6.94	\$235.96	
#68 Cat Excavator				7	7	7			4	3	4	3	6			7		5	4				5	4	4	4				6	3	83	\$ 83.90	\$6,963.70	
																															0	\$ -	\$0.00		
																															0	\$ -	\$0.00		
																																	Equipment Costs:		\$13,562.70
No. of pieces	Size	Materials List		Sockpile location or purchased from	New/Used	No. Units	* Units	Unit Cost	Total Costs																										
		Description of materials used																																	
45	3"x12"	16' plank		stock	used	720	ln.ft.	\$ 2.50	\$ 1,800.00																										
8	3"x12"	24' plank		stock	used	192	ln.ft.	\$ 2.50	\$ 480.00	Materials (page 1): \$ 19,290.30																									
4	3"x12"	24' plank		stock	New/	96	ln.ft.	\$ 3.68	\$ 353.28	Materials (page 2): \$ -																									
120	3"x12"	20' plank		stock	New/	2400	ln.ft.	\$ 3.58	\$ 8,592.00																										
43	4"x16"	24' plank		stock	New/	1032	ln.ft.	\$ 7.41	\$ 7,647.12	Total Material Cost: \$19,290.36																									
4	2'	terminal ends		stock	New/	4	each	\$ 55.00	\$ 220.00																										
60lbs.	#60 D	ring shank spikes		stock	New/	60	lb.	\$ 1.04	\$ 62.40	Equipment Costs: \$13,562.70																									
110'	felt	fabric 12'		stock	New/	110	ln.ft.	\$ 0.85	\$ 93.50																										
7	lbs.	welding rods		stock	New/	7	lb.	\$ 6.00	\$ 42.00	Total Costs: \$49,493.12																									
Material Costs (page 1): \$ 19,290.30																																			





Hanover Sec 1&2

Scale 1"=40'

Project No. LB40-1W  
 FHWA No. 129241  
 Top of deck 1241.5  
 Top of berm 1238.0  
 USE  $\theta$ -Beam Lines  
 Center span  $\theta$ -24" deep 40' Long  
 End spans  $\theta$ -24" deep 29' Long (each span)  
 Piers -  $\theta$ - 50' HP 10x42  
 Abut - 6- 50' HP 10x42

Field Ent. 1245.8  
 Top 24" RCP 1245.9  
 1244.7 Field Ent.  
 1243.9 Top 24" CMP