

## Structure Inventory and Appraisal

	0110010					
Bridge ID: GOOI	DRICH-129140		Official	SR: 26.2	SD/FO: No	t Deficient or Obsolete
FHWA No.: 12914	10	- I I	Inofficial	SR: 44.6	SD/FO: Fu	nctionally Obsolete
>						···· · ·
7 Facility Carried:	IDENTIFICATION	90 Inspectio	n Date:	06/14/2016	INSPECTION Inspection Type:	N/A
	4	Next Rouline		06/14/2018	91 Frequency:	24
5C Level of Service:	1 - MAINLINE	1000	1100 0000	001 - 1140 10	Next Insp Type:	n-Depth
5D Inventory Route:	DODOO	Inspection Ag	IAUCA.	5 - Consultant	Inspection Group:	Calhoun-Burns & Associates, Inc.
City:	RURAL	93A FC Insp		06/14/2016	inspection croup.	
3 County:	D24 - Crawford	92A FC Freq		24	Noxt FC Insp.:	06/14/2018
9 Location:	084392205	93B UW Insp			Hoxtro Map	001112010
	0 - NOT APPLICABLE	92B UW Free		0	Next UW Insp.:	NA
	BIG CREEK	93C SI Date:	doney.	Ū.	NEXCOV INSp.	1963
	0	92C SI Frequ	6 <b>8</b> .0.1	0	Mout Creek Inco.	NA
	000			0	Next Spec. Insp.:	NA
98 Border Bridge Code:		Other Non-N				
-	0	Other Non-N	BI Freq.:		Next Other Insp.:	NA
	•	58 Deck:		5 - Feir Condition (r	CONDITION	
99 Border Bridge No.:		{		5 - Fair Condition (r	-	
	CTURE TYPE AND MATERIALS	59 Super:		5 - Fair Condition (r		
43A Main Span 43B Main Span Design:		60 Sub:		5 - Fair Condition (	-	
45 No. Spans Main Unit:			hannel Prot.:	6 - Bank slump, wid	espread minor damage	
-	1 003 - Steel	62 Culvert		N - Not Applicable		
					APPRAISAL	
	002 - Stringer/Multi-beam or Girder	67 Str. Evalua	tion:	4 - Meets minimum	tolerable limits	
	Near 1 Far 0	68 Deck Geo	netry:	3 - Intolerable - hig	priority of corrective action	
	8 - Wood or Timber	69 Underclea	r Vert & Horiz	: N • Not applicable		
108A Wearing Surface:		71 Waterway	Adequacy:	5 - Occasional Floo	ding - Significant Delays	
	0 - None	72 Approach	Alignment:	5 - Somewhat belte	r than minimum adequacy	
108C Deck Protection:	0 - None	36A Bridge R	all:	0 - DOES NOT MEET	CURRENT SAFETY STANDARD	S, OR IS NOT THERE AND IS NEEDED.
	GEOMETRIC DATA	36B Transitio	n:	D - DOES NOT MEET	CURRENT SAFETY STANDARDS	, OR IS NOT THERE AND IS NEEDED
48 Length Max Span:	60 fl.	36C Approac	n Rail:	0 - DOES NOT MEET	CURRENT SAFETY STANDARDS	, OR IS NOT THERE AND IS NEEDED
49 Structure Length:	91 fl.	36D Approac	n Rail Ends:	0 - DOES NOT MEET	CURRENT SAFETY STANDARD	S, OR IS NOT THERE AND IS NEEDED
34 Skew:	0*	113 Scour Cr	tical:	3 - Scour Critical - I	Unstable	
Deck Area:	1547.0 sq. ft.	$\geq$		LOAD	RATING AND POSTING	
50B Curb/Sdwk Width R:		31 Design Lo		Unknown		
50A Curb/Sdwk Width L:	0 ft.	63 Rating Me 64 Operating		Allowable Stress (AS 5 Tons	) reported in english tans using	HS-20 loading.
51 Width Curb to Curb:	17,0 ft.	65 Rating Me	-		) reported in english tons using	H\$-20 loading,
52 Width Out to Out:	17.0 H.	66 Inventory		4 Tons		•
32 Appr. Roadway width:	: 24 ft.	70 Posting:		30.0-39.9% below leg	al loads	
(w/ Shoulders)		41 Posting Si	atus: P-	Posted for Load		
33 Median:	0 - No median	27 Year Bullt		1949	AGE AND SERVICE Design No.:	0
35 Structure Flared:	00 - No fizre	106 Year Red		2004		-
10 Vertical Clearance:	99,88.	42A Type of a		1 - Highway		
47 Horiz, Clearance:	16'DQ"			r: 5 - Walerway		
53 Min. Vert. Clearance		28A Lanes or		1 1	28B Lanes under;	0
54B Min, Ven, Underclea		28A Lanes of 29 ADT:	L.	30		
55 Min. Lat. Undercleara			лт,		30 Year of ADT:	2012
56 Min. Lat. Undercleara	nce L: 00'00"	109 Truck AE		0% 3 ml	Speed Limit:	55
98 Nation Control	NAVIGATION DATA	19 Detour Le	ng(h;	3 m).		
38 Navigation Control: 0 - No navigation col	ntrol on waterway (bridge permit not required)	447 6170	the	0	CLASSIFICATION	
111 Pier Protection:	and an approximation of the second of the se	112 NBIS Let 26 Euroliona	•	Y 09 - Rural - Loca		
	00'00"	26 Functiona 100 STRAHN		09 - Rural - Loca 0 - Not a defense		
	000,00,	100 STRAH		<ul> <li>Not a detense</li> <li>No parallel si</li> </ul>	• •	
	~~~~	102 Direction			ge for 2-way traffic	
16 Latituda: 49 0604464	17 Langitud- AF 3767676	22 Owner:		02 - County High		
16 Latitude: 42.080116:	39 17 Longitude: -95.37076732	21 Custodian	:	02 - County High		
>		37 Historical :			e for National Register	
FRA No. (if RR Bridge):		75A Type of 1	-		t - Load/Geometry	
in the contract of the contract of the						



## **Structure Inventory and Appraisal**

Bridge ID: GOODR	ICH-129140	Official	SR:	26.2	SD/FO: No	ot Deficient or Obsolete
FHWA No.: 129140		Unofficial	SR:	45.6	SD/FO: Fu	inctionally Obsolete
<u>&gt;</u>	IDENTIFICATION	V		INSPE	CTION	
7 Facility Carried: LC	CAL	90 Inspection Date:	05/08/2014		Inspection Type:	N/A
5B Rte. Signing Prefix: 4		Next Routine Insp Date:	05/08/2015		91 Frequency:	12
5C Level of Service: 1 -	MAINLINE				Next Insp Type:	In-Depth
5D Inventory Route: 00	000	Inspection Agency:	5 - Consulta	nt	Inspection Group:	Calhoun-Burns & Associates, Inc.
City: RL	IRAL	93A FC Inspection Date:	05/08/2014			
3 County: 02	4 - Crawford	92A FC Frequency:	24		Next FC Insp.:	05/08/2016
9 Location: 08	4392205	93B UW Inspection Date:				
5E Directional Suffix: 0 -	NOT APPLICABLE	92B UW Frequency:	0		Next UW Insp.:	NA
6 Feature Intersected: BIG	G CREEK	93C SI Date:				
2 District: 0		92C SI Frequency:	0		Next Spec. Insp.:	NA
Garage: 00	0	Other Non-NBI Date:				
98 Border Bridge Code:		Other Non-NBI Freq.:			Next Other Insp.:	NA
% Responsibility: 0				CONI		
99 Border Bridge No.:		58 Deck:	7 - Good C	ondition (some m	inor problems)	
STRUCTL	IRE TYPE AND MATERIALS	59 Super:	5 - Fair Cor	ndition (minor sec	tion loss)	
43A Main Span 3 -	Steel	60 Sub:	5 - Fair Cor	ndition (minor sec	tion loss)	
43B Main Span Design: 10	- Truss Thru	61 Channel/Channel Prot.	: 6 - Bank slu	ump. widespread	minor damage	
45 No. Spans Main Unit: 1		62 Culvert:	N - Not App	olicable		
44A Appr. Span 00	3 - Steel				RAISAL	
44B Appr. Span Design: 00	2 - Stringer/Multi-beam or Girder	67 Str. Evaluation:	4 - Meets n	ninimum tolerable		
46 No. of Appr. Spans: Ne	ear 1 Far 0	68 Deck Geometry:	3 - Intolera	ble - high priority	of corrective action	
107 Deck Type: 8 -	Wood or Timber	69 Underclear Vert & Hori	z: N - Not app	olicable		
108A Wearing Surface: 7 -	Wood or Timber	71 Waterway Adequacy:	5 - Occasio	onal Flooding - Sig	nificant Delays	
108B Membrane: 0 -	None	72 Approach Alignment:		hat better than mi		
108C Deck Protection: 0 -	None	36A Bridge Rail:				S, OR IS NOT THERE AND IS NEEDED.
×		36B Transition:	0 - DOES NO	OT MEET CURREN	T SAFETY STANDARDS	S, OR IS NOT THERE AND IS NEEDED
48 Length Max Span:	60 ft.	36C Approach Rail:	0 - DOES NO	OT MEET CURREN	T SAFETY STANDARDS	S, OR IS NOT THERE AND IS NEEDED
49 Structure Length:	91 ft.	36D Approach Rail Ends:	0 - DOES N	OT MEET CURREN	IT SAFETY STANDARD	S, OR IS NOT THERE AND IS NEEDED
34 Skew:	0°	113 Scour Critical:	3 - Scour C	Critical - Unstable		
Deck Area:	1547.0 sq. ft.				AND POSTING	
50B Curb/Sdwk Width R:	0 ft.	5	- Unknown			
50A Curb/Sdwk Width L:	0 ft.	*		ress (AS) reported	d in english tons using	HS-20 loading.
51 Width Curb to Curb:	17.0 ft.	1 0 0	.5 Tons - Allowable St	ress (AS) reporter	d in english tons using	HS-20 loading
52 Width Out to Out:	17.0 ft.	*	4 Tons			The 20 loading.
32 Appr. Roadway width:	24 ft.			elow legal loads		
(w/ Shoulders)		41 Posting Status: P	- Posted for Lo			
33 Median:	0 - No median	27 Year Built:	1949	AGE ANI	D SERVICE Design No.:	0
35 Structure Flared:	00 - No flare	106 Year Reconstructed:	2004		Dealgh NU.	U
10 Vertical Clearance:	99'99"	42A Type of Service on:	2004 1 - Highwa	v		
47 Horiz. Clearance:	16'00"	42A Type of Service Unde	0			
53 Min. Vert. Clearance Ove		28A Lanes on:	1	uy	28B Lanes under:	0
54B Min. Vert. Underclearar		29 ADT:	1 30		30 Year of ADT:	2012
55 Min. Lat. Underclearance		109 Truck ADT:	30 0 %			55
56 Min. Lat. Underclearance	L: 00'00"	109 Truck ADT: 19 Detour Length:			Speed Limit:	55
38 Navigation Control:	AVIGATION DATA		3 mi.			
•	I on waterway (bridge permit not required)	112 NBIS Length:	Y	CLASS	IFICATION	
111 Pier Protection:		26 Functional Class:	' 09 - Rura	al - Local		
39 Vertical Clearance: 00'	00"	100 STRAHNET:		defense highway		
	0'00"	101 Parallel Structure:		arallel structure		
40 Horiz. Clearance: 000		102 Direction of Traffic:	3 - One la	ane bridge for 2-w	vay traffic	
40 Horiz. Clearance: 000						
40 Horiz. Clearance: 000 16 Latitude: 42.08011639	17 Longitude: -95.37076732	22 Owner:		nty Highway Ager		
>	17 Longitude: -95.37076732	22 Owner: 21 Custodian:	02 - Cou	nty Highway Ager	псу	
>	17 Longitude: -95.37076732	22 Owner:	02 - Cou 3 - May b		onal Register	

CRAWFORD CO. GOODRICH 23 129140 JAR 12/23/03

Bridge Standard: Z Series (Z1 thru Z7, and Z9)

Date Issued: 1927 (except Z9, issued in 1930)

Date Revised: 1945

St'd No.	Span Length	Roadway Width		ng (1) HS)	Legal Load Capacity, Tons (1)						
						Truck Type	. e				
	ft.	ft.	Inv.	Oper.	4	3S3	3-3				
Z۱	45	16	5.0	7.2	12	17 -	22				
$\rightarrow$ Z2	60	16	5.0	7.2	12	17	22				
Z3	75	16 .	5.0	7.2	12	17	22				
Z4	90	16	5.0	7.2	12	17	22				
Z5	105	16	4.8	7.0	<b>10</b> .	15	21				
Zć	122.5	16	4.8	7.0	10	15	21				
Z7	140	16	4.8	7.0	10	15	21				
Z9	157.5	16	. 4.8	7.0	10	15	21				

Rating Summary

(1) 16 ft. roadway bridges are considered one lane bridges.

NOTE: Rating and load capacity for all spans was controlled by the laterally unsupported compression flange of interior stringers. If the original wood plank floor has been replaced with planks adequately attached to the top of all stringers, the rating and load capacity should be re-evaluated.

PILE DETERIORATION CONTROLS BRIDGE RATING.

POST "9 TONS" & "ONE LANE"

CLOSELY MONITOR PILES, ESPECIALLY AT WEST ABUTMENT. FURTHER DETERIORATION (FROM CONDITION AS DOCUMENTED IN '02 FIELD REPORT) WILL WARRANT LOWER POSTING-OR CLOSURE.

Bridge was repaired in 2004 by observation truss will control rating as use 12-17-22 for posting

Pun l

Project I						• • •							Ç	RAW	/FOF	ND C	OUN'	TY D	AY L	ABC	RPF	OJE	CTS	HEE	T				Date: June 15, 2004						
	1: 110404										· · ·											Sect	ion:	15&	22					То	wns	nip: (	Goodric		
	tion of Wo			Add	a 30	' app:	roach	n to th	ie ex	isting	truss	bridg	ge.																				F	HWA No: .	129140
For	the month	of:																																Bridge T	ype:
	April																																	truss	··
Emp	loyee																		day														Total	Hourly	Totals
	-	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		20	21	22	23	24	25	26	27	28	29	30	31	Hours	Rate	
Terry Lally															4	4				4		4	8	8			8	8	8				56	\$ 36.58	\$2,048.4
Dan Bluni						1								4	8	8				8			8	8			8	8	8				68	\$ 33,49	\$2,277.3
Howard C	Clark					1		1						4	8					8		4	8	8			8	8	8				64	\$ 26.54	\$1,698.5
Kyle Schu	ultz														8	8				8		4					8	8	8				52	\$ 26.51	\$1,378,5
Mike V og	jt 🛛						1	-	ľ						8	8				8	1	4	8	8			8	8	8				68	\$ 12.52	\$851.36
Chris Boe							<b></b>	<u> </u>																									0	\$ 9.95	\$0.00
						<u> </u>																										$\neg$	Ō	\$ -	\$0.00
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								L		ł			1	·					L														Ŷ	pr Cost:	\$8,254.2
															Hou	re w	orkor	Inar	day														Total	Hourly	Ψ <b>Υ</b> , <b>Σ</b> ,ΥΤ.Σ
Equip	oment	1	2	3		5	6	7	1		ini	44	10	40					18		20	04	00	00		05	0.0	07	00	00	20	24		- 1	Totals
#83 Cat E	Voovotor				4	<u> </u>	6	+-	8	9	10	11	12	13	14 6	10	10	17	10	19	20	4	22 22	23	24	25	26 6	27 5	28 6	29	30	31	Hours 55	Rate \$ 72.99	\$4,014.4
	Belt Crane								╞╼┈											<u>£</u>			- 22	<u> </u>			0		0						\$1,755.3
					<u> </u>			-	-			<b> </b>			4	4		4	2									4					- 18	\$ 97.52	
#103 Tele								<u> </u>	<u> </u>	<u> </u>	<u> </u>																				·		0	\$ 89.90	\$0.00
#75 IH Do						<b> </b>		-	<b> </b>		<b> </b>	<b> </b>	L																				0	\$ 39.84	\$0.00
#59 J. D.							L		ļ	<b> </b>	<b> </b>	<b></b>																2	4				6	\$ 25.17	\$151.02
#32 J.D.									<u> </u>															<u> </u>									0	\$ 26.95	\$0.00
#87 Air Co																					<u> </u>												0·	<u>\$</u>	\$0.00
#63 Weld										L					<u> </u>		:			6			. 2										12	\$ -	\$0.00
#18 Tool	Truck							<u> </u>							2	2	2			2	2	2	2	2			2	2	2				22	\$ 9.26	\$203.72
					<b>-</b>																i _												0	\$ <u>-</u>	\$0.00
				:																													0	\$ -	\$0.00
																																	0	\$-	\$0.00
																																Eq	uipmer	t Costs:	\$6,124.5
No. of	Circo					N	later	ials L	ist				Sock	pile l	ocali	on or	Ne	ew/	N	0.	*11	nits		Unit	t		Tota								
pieces	Size Description of materials used					] pu	rchas	sed fr	ิดกา	Us	ed	Un	nits	<sup>*</sup> U	mus		Cos	t	(	Cost	\$				т.	4al 1 - 1	on Contro	\$0 0E4 0							
12	15"	30' i beams stock						ed		2	ea	ich	\$		6.00			2.00	[			10	inai Lat	or Costs:	₹0,204.Z										
45								k clip					<b> </b>	_	ock		<u> </u>			5		ich	\$		1.00				Mate	erials	(pag	e 1):	\$	1,126.63	
	3/4"	$\neg$						bolts					<u> </u>		ock		ne	w/		26		ich	\$		0.63					erials				7,850.89	18 A.
126							1				<b>.</b>	w/		80			\$		0.50			).00			16-19				no. 19. 6 o 200 (1999) 200						
126 380'						rin			nikee				stock stock						5	-	)S	\$		1.35			).25	1			Tot	tal Mat	erial Cost:	\$8,977.5	
380'	15 #60					int	କୁ ସାପ	1111, 5	νηνορ					51	JUN					0	<u>  "</u>		\$ 1.33 \$			\$	21		<u> </u>						
	1 100	,											<u> </u>						_	0	<u> </u>		\$		-	գ \$			1			E	quipm	ent Costs:	\$6,124.5
380'	#00	_																			1		10		-	Ψ		-							
380'	#00																									¢		_							
380'																				0 0 0			\$		-	\$ \$		-	-		Te		costs:		\$23,356.3

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No.	Size	County Secondary Roads Material Description of Materials Used:	Stockpile Location or	New or	oject No.: <b>No.</b>	Units	11-	nit Cost	Total Co
Pieces	0426	Description of Materials Osed.	Direct Purchase From	Used	Units	*(see below)	Ur		TUTALOU
12		16' Plank	Denison	new	192	in.ft.	\$	1,25	\$240.0
	3"x12"	18' Plank	Denison	new	0	In.ft.	\$	2.51	\$0.00
14	_3"x12"	20' Plank	Denison	new	280	In.ft.	\$	2.51	\$702.8
9	_ <u>3"x12"</u>	22' Plank	Denison	new	198	lln.ft.	\$	2.58	\$510.8
3	3"x12"	24' plank	Denison	new	72	In.ft.	\$	2,25	\$162.0
4 ·	4"x12"	16' plank		used	64	In.ft.	\$	1.25	\$80.0
15	4"x12"	24' plank			360	In.Inft.	\$	3.99	\$1,436.
1	4"x16"	any length		used	18	In.ft.	\$	1.25	\$22.5
					0		\$		\$0.00
	10"x10"	Wood Cap			0	In.ft.	\$	9.17	\$0.00
	12"x12"	Wood Cap			0	In.ft.	\$	13.20	\$0.00
					0		\$	· -	\$0.00
	4"x6"	12' nailer			0	each	\$	26.05	\$0.00
2	4"x6"	16' nailer			2	each	\$	29.77	\$59.5
					0		\$	-	\$0.00
	2"x4"	any length			0	In.ft.	\$	0.28	\$0.00
	2"x6"	any length				In.ft.	\$	0.39	\$0.00
	1/2"	4'x8' plywood			0	each	\$	11.05	\$0.00
	3/4"	4'x8' plywood			0	each	\$	-	\$0.00
					0		\$	L .	\$0.00
4	25'	wood piling			4	each	\$	141.36	\$565.4
5	30'	wood piling			5	each	\$	168.00	\$840.0
	35'	wood piling			0	each	\$	217.69	\$0.00
	40'	wood piling			0	each	\$	296.37	\$0.00
					0		\$	-	\$0.00
8	8 <b>*</b> x8"	40'steel@36lb./ft.			320	In. ft.	\$	7.41	\$2,371.
	8"x8"	50'steel @36lb./ft			0	In. ft.	\$	-	\$0.00
			•		T	otal Material	s (pa	ge two) :	\$6,990.

	Crawford	<b>County Secondary Roads Material</b>	List	Pi	oject No.:	-1.4		. / <u>. //</u>
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unit Cost	Total Cost
	10"x10"	40' Steel H@42 lb./ft.	Denison	new	0	lin, Ft.,	\$ 8.50	\$0.00
	10"x10"	50' Steel H@42 lb/ft	Denison	new	0	lin. Ft	\$ 7.80	\$0.00
32'	10"	40' channel @15.3 lbs./ft.	Denison	new	32	lin. Ft.	\$ 3.13	\$100.16
	12"	40' channel @15.3 lbs./ft.	Denison	new	0	lin. Ft	\$ 4.90	\$0.00
	1/2"x14"	10' steel plates	Denison	new	0	lin. Ft	\$ 6.43	\$0.00
1	25'	Steel Caps		used	1	each	\$ 20.00	\$20.00
36	30 1/2"	Diaphragms		used	36	each	\$ 11.97	\$430.92
	38 1/2"	Diaphragms			0	each	\$ 14.05	\$0.00
12	85lb.	rail posts			12	each	\$ 8.50	\$102.00
	straight 20'	7 ga.sheet piling	Denison	new	0	each	\$ 123.22	\$0.00
	45degree	sheet piling	Denison	new	0	each	\$ 151.40	\$0.00
	90degree	sheet piling	Denison	new	0	each	\$ 139.80	\$0.00
					0			\$0.00
	13'	gaurdrail		used	0	lin. Ft.	\$ 1.00	\$0.00
60'	26'	gaurdrail		used	60	lin. Ft.	\$ 1.00	\$60.00
	25'	W-beam gaurdrail		new	0	lin. Ft.	\$ 2.25	\$0.00
2	2'	gaurdrail terminal ends		new	2	each	\$ 28.00	\$56.00
	1/4"	2 1/2"x2 1/2" angle 20'	Denison	new	0	lin, Ft.,	\$ 0.78	\$0.00
	3/8"	3"x3" angle 20'	Denison	new	0	lin. Ft	\$ 1.35	\$0.00
					0			\$0.00
	1/2"	wire cable	Denison	new	0	lin. Ft	\$ 1.18	\$0.00
28	1/2"	cable clamps	Denison	new	28	each	\$ 0.38	\$10.64
					0	· · · · · · ·		\$0.00
	1/2"	20' rebar	Denison	new	0	lin. Ft.	\$ 0.16	\$0.00
	5/8"	20' rebar	Denison	new	0	lin. Ft	\$ 0.22	\$0.00
	5/8"	20" rebar with Epoxy	Denison	new	0	each	\$ 6.46	\$0.00
					0			\$0.00
		· · · ·	······		To	tal Materials	(page three) :	\$779.72

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	Crawford	d County Secondary Roads Material	List	P	roject No.:	••••••••••••••••••••••••••••••••••••••		·
No. Pieces	Size	Description of Materials Used:	Stockpile Location or Direct Purchase From	New or Used	No. Units	Units *(see below)	Unit Cost	Total Cos
50	12'	felt fabric	Denison		50	lin ft.	\$ 0.74	\$37.00
	12'	mesh fabric	Denison		0	lin.	\$ 2.00	\$0.00
	box	1"x6"x6" fabric staples	Denison		0	each	\$ 21,70	\$0.00
		· · · · · ·			0			\$0.00
	8d	nails	Denison		0	lb,	\$ 0.80	\$0.00
	16d	nails	Denison		0	lb.	\$ 0.69	\$0.00
	16d	double head nails	Denison		0 1	lb.	\$ 0.69	\$0.00
	60d	ringshank spikes	Denison		0	ibs.	\$ 1.15	\$0.00
					0			\$0.00
	3/4"	anchor bolts	Denison		0	each	\$ 3.63	\$0.00
25	1/2"	maellable washers	Denison		25	each	\$ 0.94	\$23,50
	3/4"	maellable washers	Denison		0	each	\$ 0.94	\$0.00
	1/2"	flat washers	Denison		0	each		\$0.00
	3/4"	flat washers	Denison		0	each		\$0.00
					0			\$0.00
	3/4"	2 1/2" bolts	Denison		_	each	\$ 0.70	\$0.00
	3/4"	3" bolts	Denison		0	each	\$ 0.80	\$0.00
5	1/2"	9" boits	Denison		5	each	\$ 1.05	\$5.25
15	1/2"	10" bolts	Denison		15	each	\$ 0.98	\$14.70
	1/2"	11" bolts	Denison		0	each	\$ 1.05	\$0.00
	1/2"	12" bolts	Denison		0	each	\$ 1.84	\$0.00
					0			\$0.00
					0			\$0.00
					0			\$0.00
	; [				0			\$0.00
					0			\$0.00
					0			\$0.00
		<u></u>			Тс	otal Materials	(page four) :	\$80.45