



DATE: 19 NOV 2014 COUNTY: 105

CONT-SEC: RR00-00

STR: 001

ROADWAY OVER BRIDGE

Looking North

Photo 1



**ELEVATION** 

Looking Southwest



COUNTY: 105

CONT-SEC: RR00-00

001

STR:

UPSTREAM VIEW FROM BRIDGE

Looking West

Photo 3



DOWNSTREAM VIEW FROM BRIDGE

Looking East



DATE: 19 NOV 2014

COUNTY: 105

CONT-SEC: RR00-00

STR: 001

SUPERSTRUCTURE

Looking North

Photo 5



STREAM UNDER BRIDGE

Looking East



NOTE: A few very minor spalls in the outside face of the concrete bridge rail at the NE approach guardfence bolted rail transition connection.

DATE: 19 NOV 2014 COUNTY: 105

CONT-SEC: RR00-00

STR: 001

BRIDGE RAIL SPALLS AT NE TRANSITION

**Looking Northwest** 

Photo 7



NOTE: Very minor shallow cosmetic spall in the top of the concrete bridge rail at the SE bridge corner.

BRIDGE RAIL SPALL AT SE BRIDGE CORNER

**Looking East** 



NOTE: Two temporary timber construction x-braces remain in the 2nd span from the North over the creek channel.

COUNTY: 105

CONT-SEC: RR00-00

STR: 001

REMAINS OF TEMPORARY CONSTRUCTION BRACING

Looking South



COUNTY: 105

CONT-SEC: RR00-00

STR: 001

CRACKING IN MIDDLE BENT SUPPORT

**Looking North** 

NOTE: Typical minor vertical to diagonal cracking and some "map-cracking" of the middle bent cap support over both columns. No significant loss of strength has occured as a result of this condition.



COUNTY: 105

CONT-SEC: RR00-00

STR: 001

IMPACT DAMAGED SW APPROACH GUARDFENCE

Looking South

NOTE: One 25 ft. section of the SW approach guardfence ( located ~ 60 ft. South of the SW bridge corner ) has moderate deformations due to impact.



# **Bridge Inspection Follow-up Action Worksheet**

District: 14	County: 105	C	Cont-Sec: RR00-00	Structure:	001	Route:	Ruby Ranch	n Rd.			
Feature Crossed:	Onion Creek			<u> </u>	Inspector:	Cha	rles T. Stone,	P.E. Date:	11/19/2014		
Company Name:	Stone Structur	al I	Engineering (F-192)					Maintenance Sect	ion: HOA		
1	Wearing Surface		Superstructure - Bearing	-				13. Structural Pa	•		
2. Roadway - I	Deck	6.	Superstructure - Other	l	0. Channel	& Cha	nnel Protection	14. Vertical Cle	arance Signs		
3. Roadway - 0	Other	7.	Substructure - Abutmen	ts 1	1. Retainin	g Walls	s or Rip Rap	15. Culvert			
4. Superstructu	re - Main Member	8.	Substructure - Bents &	Piers 1	2. Approac	hes		16. Other -			
Priority Level	Priority Level: Critical: Actions required within 30 days. Urgent: Actions required within 6 months. Routine: Actions required within 24 months.										

Ref. Feat.	Action / Comments  * = Recommended action from previous inspection not yet performed & still warranted.	1085 Ratings	Priority Level
2	Consider cleaning sediment build-up along the toes of the bridge rails and in the rail drain slots to	7	Routine
	improve the bridge deck drainage.		
10	Monitor the channel bank erosion around the root system of a large tree on the SW upstream bank.	6	Routine
	(Remove the tree if it appears continued erosion will allow the tree to drift against the bridge columns).		
11	Consider clearing the vegetation growth from the joints in both abutment concrete rip rap slopes.	7	Routine
	(Consider sealing any open joints in the rip rap slopes with silicone or asphalt joint sealant).		
12	Consider replacing one 25 ft. length section of impact damaged approach guardfence steel rail near the	6	Routine
	SW bridge corner. (Existing approach guardfence does not meet current traffic safety standards).		
	THE OF THE		
-	**************************************		
	CHARLEST. STONE		
	TO STEPLE OF THE PARTY OF THE P		
	11-28-14		
	- 2 Column Bent (G.S.)	ficant Dama g Bearing Pa eam w/Crack t blocked w/	ads ss

District:	_14	County:	105	Cont-Sec:	RR00-00	Structure:	_001_	Route:	Ruby Ranch Rd.
			Di	istrict N	<b>Aaintena</b>	nce Of	fice (	Comm	ents
Date:				Comm	ents By:		· · · · · · · · · · · · · · · · · · ·		
					173 . 11 .	A 4 •	ar ı		
					Follow-up	Actions	Таке		
			Desc	ription				Date	Verified By
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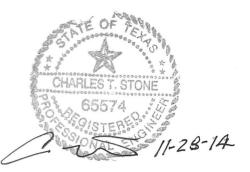


Modified (12-5-2000) for Microsoft Word 7.0, WIN95 & NT

C. Sign Needs Cleaning

F. Sign Down

# **Bridge Summary Sheet**



District: 14	County: 105	Cont-Sec:	RR00-00	Structure:	001	Route:	Ruby Ranch Rd.	č	
	nion Creek		Inspector's S		1 -	1	Date:	11/19/20	
Company Name: St	tone Structur	al Engineering	(Texas Firm Reg	. F-192)			Rub	y Ranch H	10A
Selected Compone	ent Descrip	tion and Ra	ting:		Inspec	ng	Inventory Rating	Operation Rating	g
Concrete Deck					(108		<u>H HS</u> -		HS_
Prestressed Concr	ete Beams	(Assumed L	oad Ratinas)		8		- 20		27
Concrete Substruc					7		- 20		27
Channel			3 /		6				-
Comments and/or	Upgrade F	Recommend	ations (if app	olicable):					
Concrete member e	sizes, span/	depth ratios	and a 1995	date built	indicate	this brida	le was const	ructed	
to carry legal truc	•						4		
Approach guardfen	ice does not	meet curre	ent safety sta	andarda			-		
Approach guaraten	100 4005 1101	o mood curre	one sarcey see	<u> 1110a1 05.</u>					
Load Posting Lim	its for Pres	ent Conditi	on (if annlica	hle).					
C	165 101 1 1 65		оп (п аррпса	biej.					
Inventory		<b>Operating</b>					WEIGHT WEI	IGHT MIT	$\sim$
Legal Ibs Gros	-		lbs Gross		WEIGHT LIMIT	WEIGHT			LOAD
	dem Axle		lbs Tandem Axle		AXLE OR TANDEM	TANDEM AXLE	AXLE OR TAN	IDEM   ZC	RIDGE
	or Tandem		lbs Axle or Tande	m OTHER	R12-2Tb	R12-2Tc	R12-4Tb R12	LBS W	V12-5
Sign Co	de _		Sign Code	→ 1	2	3	4	5	6
<b>Posting Recomme</b>	ndation:	Load Post	ing is Not Re	quired.					
Previous Load Pos	sting Recon	nmendation	is:	Observed 1	Load Po	sting at B	ridge:		
R12-2Tb		None		R1	2-2Tb	X	None		
R12-2Tc		lbs Gross	_	R1	2-2Tc	-	lbs Gross		
R12-4Tb		lbs Tandem A	xle _	R1	2-4Tb		lbs Tandem	Axle	
R12-4Tc		lbs Axle or Ta	indem —	R1	2-4Tc	-	lbs Axle or	Tandem	
		_	_	Ot <sup>i</sup>	her (desc.):	-			
	N		_			4		4	
<b>Material Needed</b>	W.				1				
- R12-2Tb	COM	PASS							
- R12-2Tc									
R12-4Tb	1		P	ľ					
R12-4Tc		Ad	lvanced Warning	Br	ridge	Bridge	Adva	nced Warr	ning
W12-5			(optional)	App	oroach	Approac	h	(optional)	
Posts	Sign Code						_		
Hardware Sets	Condition Cod						<b>-</b>		
Decals	Maintenance 1	Need	i				_		;
<ul><li>A. Visible &amp; Legible</li><li>B. Obscured by Vegetati</li></ul>		oper Position aged Beyond Re	G. Sign I	Missing & Post Missing		ean Sign position Sign	N. N P. R	lone eplace Sigr	n

H. Sign & Post MissingJ. Clear Vegetation

L. Reposition Sign M. Reposition Sign & Post



## **Bridge Inspection Record**

Modified (12-5-2000)

District:	14	County:	105	Cont-Sec:	RR00-00	Structure:	001	Route:	Ruby Ranch Rd.	
Description	on:	4- simple	span P	restressed (	Concrete Beam	Bridae on c	oncrete	cap & co	lumn supports.	

Feature Crossed: Onion Creek Inspector's Signature:

Company Name: Stone Structural Engineering (Texas Firm Reg. F-192)

N- Not applicable

9- Excellent condition

8- Very good condition - no problems noted

7- Good condition - some minor problems

6- Satisfactory condition - minor deterioration of structural elements (limited)

5- Fair condition - minor deterioration of structural elements (extensive)

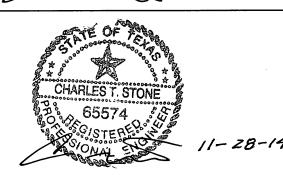
4 Poor condition - deterioration significantly affects structural capacity

3- Serious condition - deterioration seriously affects structural capacity

2- Critical condition -bridge should be closed until repaired

1- Failing condition - bridge closed but repairable

0 Failed condition - bridge closed and beyond repair



11/19/2014

Date:

Enter a rating for each element of each component. The rating should equal or exceed the minimum rating listed to the left of each element. Component ratings should equal the lowest rating of any element of the component. Fully supportive comments are to be made hereon or on attachments for all ratings of 7 or below.

M	lin. Deck (Item 58)	Rating
1	Deck -Rating Concrete on Pre-cast Panels	8 1.
6	Wearing Surface	N
6	Joints, Expansion, Open Steel Armored	8
6	Joints, Expansion, Sealed	N
6	Joints, Other	N
6	Drainage System	7 2
6	Curbs, Sidewalks & Parapets	N
6	Median Barrier	N
6	Railings Std. T502 Concrete	7 3
7	Railing Protective Coating	N
7	Delineation (curve Markers)	N
	Other	N

#### Comments:

- 1. The concrete bridge deck is in very good condition with only insignificant surface imperfections.
- 2. Minor sediment build-up along the toes of the bridge rails and in the rail drain slots slightly impedes deck drainage.
- 3. The bridge rails have minor temperature & shrinkage cracking and a few minor cosmetic spalls. (See Photos #7 & #8). This minor cracking and spalling does not adversely affect the strength or serviceability of the bridge rails.

Mi	in. Superstructure (Item 59)	Rating
0	Main Members - Steel	N
0	Main Members - Concrete P.S. Beams	8 1.
0	Main Members - Timber	N
0	Main Members - Connections	N
1	Floor System Members	N
1	Floor System Connections	N
5	Secondary Members	N
5	Secondary Members Connections	N
6	Expansion Bearings Elastomeric Pads	8
6	Fixed Bearings Elastomeric Pads	8
6	Steel Protective Coating	N
	Other	N
	Component Rating	8

#### Comments:

1. Prestressed concrete beams are in very good condition. Two temporary timber construction x-braces remain in the  $2^{nd}$  span from the North over the creek channel. (See Photo #9).

District: 14 County: 105 Cont-Sec: RRC	00-00 Stru	ucture: <u>OO1</u> Route: <u>Ruby Ranch Rd.</u>	
Min. Substructure (Item 60)	Rating	Min. Culvert (Item 62)	Rating
0 Abutment Caps Concrete	8	0 Top Slabs	N
0 Above Ground	N	0 Bottom Slabs or Footing	N
Below Ground or Foundation Unknown	8	0 Abutments & Intermediate Supports	N
5 Backwalls & Wingwalls Concrete	8 1.	5 Headwalls & Wingwalls	N
0 Intermediate Supports		Other	N
Caps - Concrete	7 2.		<del></del>
Caps - Steel	N	Component Rating	N
Caps - Timber	N	Component Ruting	
Above Ground - Concrete Columns	8 3.	Comments:	
Above Ground - Steel	N	<>><< Continued from Item 65 Approache	g >>>>>
Above Ground -Timber	N		
Above Ground - Masonry	N	5. The sight-distance is slightly limited due t	io the
Below Ground or Foundation Unknown	8	horizontal roadway curve at the North ap	proach.
	N		
5 Collision Protection System 6 Steel Protective Coating			
6 Steel Flotective Coating			
	7		
Component Rating			
Comments:			
1. A few insignificant vertical cracks in the abo	utment		
backwalls.		Min. Approaches (Item 65)	Rating
		0 Embankments	8
2. Minor vertical to diagonal cracking & some	"man-	4 Embankment Retaining Walls	N
cracking" in the middle bent cap over both		5 Slope Protection	7 1.
(See Typical Photo #10). No significant los		5 Roadway	7 2.
strength due to this condition.	)	6 Relief Joints	N
Strength ade to this containon.		6 Drainage	8
3 lucionificant carling and abracion of the car	un a un at a	6 Guardfence	6 3.
3. Insignificant scaling and abrasion of the co		7 Delineation	7 4.
columns and tie-beams in the splash-zone	or the	7 Sight Distance	<b>7</b> 5.
middle and North interior bent supports.		Other	N
		Component Pating	6
		Component Rating	
		Comments:	
Min. Channel (Item 61)	Rating	1. Minor settlement (less than 1") in the cond	crete rip rap
0 Channel Banks	6 1.	adjacent to the NE corner wingwall.	
0 Channel Bed	8	2. Asphalt approaches have recently been se	aled. A few
5 Rip Rap, Toe Walls & Aprons	7 2.	minor sealed cracks in the North asphalt	
5 Dikes	N	3. Moderate impact damage to the SW corn	
5 Jetties	N	guardfence. (See Photo #11).	1 1
5 Other		4. One amber delineator is faded on the East	t bridae rail.
3 Outer			2 2 . 1010JC 1 21111
	161	Min. Miscellaneous	Rating
Component Rating		7 Signs	
Comments:		7 Illumination	N
1. Moderate bank erosion around the root-sys	tem of a	7 Warning Devices	N
large tree on the SW upstream channel ba		7 Utility Lines	N
2. Minor shifting and settlement of both conc	rete rin ran	Other Traffic Safety Features	7 1.
slopes. Minor vegetation growth through t		Comments:	
construction joints of both rip rap slopes.		1. The concrete bridge rails are standard	T502 crash-
Constitution James of Pool hip rap slopes.		tested rails. The approach guardfence is	
		does not meet current standard	
		guardfence standards have changed sin	
		guaranono obandardo navo onangoa sin	SO WIND WINAGO

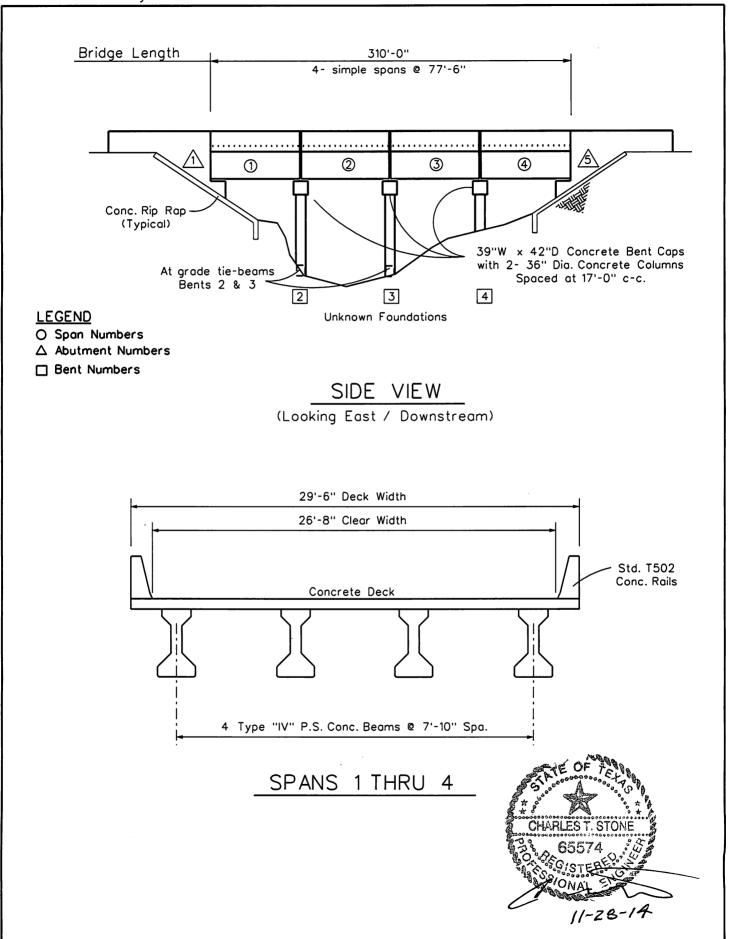
was constructed.



Modified 12-5-2000) for Microsoft Word 7.0, WIN95 & NT

# **Bridge Inventory Record**

	14	County:		Cont-Sec: _	RR00-0		Structure:	001	_	Ruby Ran		
Feature Cross	_	Onion Cr				pector'	's Signatur	e: <u>Ch</u>	arles T. S	stone, P.E.	Date:	11/19/14
Company Na	_			Engineering (	F-192)							
Location:	_	1.2 miles			•, 1	***	050 551 4		intenance	_	Ruby Ranc	h HOA
Latitude:		N <u>30° 04</u>	33.12"	L	ongitude:	w _	97° 55' 4.	02"	IV	Iilepoint:	NA	
General Desc			ocrete Be	am Bridge on	concrete	can ar	nd two-coli	ımn con	crete supr	orts		
				n roadway wit				0011	oroto supr	70115.		
				lge rails with				nce.				
Bridge Lengtl	h: _	310	ft.	Deck Width	29.5	_ ft.		es On: _		Lanes U		0
Skew Angle:		Deg	;. [	Lt. Fwd.	☐ R	t. Fwd	l. Bri	dge Rai	l: Std. T	502 Concrete	e	
Clear Width I				Curbs,		ails,	Pvmt.	Edges	Appro	ach Rdwy. W	'idth:	21 ft.
Deck Type: _	Concr	ete Deck (	on Preca	st Concrete I	Panels.							
Surfacing: _	No Sep	parately A	pplied V	Wearing Surf	ace.	<del></del>	Vertical	Over-Cl	learance:		ft. 🛛 U	nimpaired
Stringers:	Spans:	1 thru	4									
,	Type:	Prestre	ssed Cor	icrete Beams	S	ize: _	Туре	IV (54''	Depth)	Numl	ber:	4
	Spacin	g: <u>7-10''</u>	c-c				Con	trolling	Span Leng	gth (C-C bear	rings):~	<b>76.2</b> ft.
Stringers:	Spans:									(Nominal S	pan Length	s = 77.5  ft.
	Туре:				s	ize: _				Numl	ber:	
	Spacin	g:					Con	trolling	Span Leng	gth (C-C bear	rings):	ft.
Stringers:	Spans:											
	Type:				S	ize:				Numl	ber:	
	Spacin	g:					Con	trolling	Span Leng	gth (C-C bear	rings)	ft.
Est Deck Ove	ertoppii	ng Freq:		□ >	100		□ 11 -	100		] 3 - 10		< 3
Est Approach	Overte	op. Freq:			100		<u> </u>	100		3 - 10		< 3
Horizontal /	Vertica	l Alignme	nt: <u>]</u>	Fair / Good								
Date Built / I	Design	Load: _	1	1995 / Unkno	wn (Desi	gn Pla	ns not Ava	nilable)				
Regulatory /	Advisc	ry Speeds	:3	35 mph (Spee	d Limit)	/ No A	dvisory S	peed				
Posted Load	Restric	tion:	1	None.								_ None
Comments:								Γ				
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Modified (12-7-2000)

Middle Bent

South Bent

South Abut.

Deck Ref.

Low Beam

Water Level

## **Channel Cross-Section Measurements Record**

for Micro	soft Word 7.0, WIN95	& NT																
Distri	ct: 14 are Crossed:	County: 1		ont-S	Sec:	RR00-0	<u>0</u> Stru	ctur	e <u>(</u>	001 Ro	ute: R	uby	Ran	ch Rd.				
If m	easurements v	were taken wit	h any de	vice (	ther	than a drop	line or ta	ipe m	neasu	re, please d	escribe n	netho	d in	comment se	ection.			
A. T E. S	idewalk	B. Edge of F. Top of J. Rubble	Cap	C	. Wa	p of Curb ater Surface	<del>2</del>		Top Cha	of Parapet			Le		R ow Abu	ight t.//		
B			Stone	Str	uctu	ral Eng.												
B	Notes	Total		Comp	any No	ате		Compa	any N	ате	(	Compa	any No	ате	Company Name			тте
n t	(Item 44)	Horiz. Dist.	Date: 1				Date:				Date:				Date:			•
#						ownstream	☐ Upstr		_	ownstream	☐ Upstr	_	_	ownstream	— <u> </u>		$\overline{}$	ownstream
<u></u>			Distance from Last Bent	Ref	Ref.	Vertical Distance	Last Bent	Ref.	Bot. Ref.	Vertical Distance	Distance from Last Bent	Top Ref.	Bot. Ref.	Vertical Distance	Distance from Last Bent	Ref.	Bot. Ref.	Vertical Distance
1	North Abut	0'	0	A	ī	8.7'						<b> </b>	ļ					
-				1	1-													
			+38'		I/H	28.4'												
<u> </u>			+50'	$\sqcup$	Н	29.3'						ļ						
<u> </u>	North Bent	77.51	+70'	$\vdash \vdash$	$\vdash$	33.5'								-				
2	North Bent	77.5'	77.5'	H	H	37.0' 38.0'												
			<del>  ' ' -</del>	+	+	30.0			-			-						
			+25'	Ħ	H	38.8'												
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			+45'			40.5'												
					$\coprod$						,							
			+62'	$\sqcup$	$oxed{\bot}$	39.3'						ļ						

+70'

77.5'

+4'

+19'

+37'

77.5'

+25'

+45'

77.5'

155'

232.5'

310'

38.0'

37.7'

36.9'

27.8'

26.0'

24.3'

23.8'

23.0'

8.3'

2.8'

8.2'

Dry

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H/I

В

G

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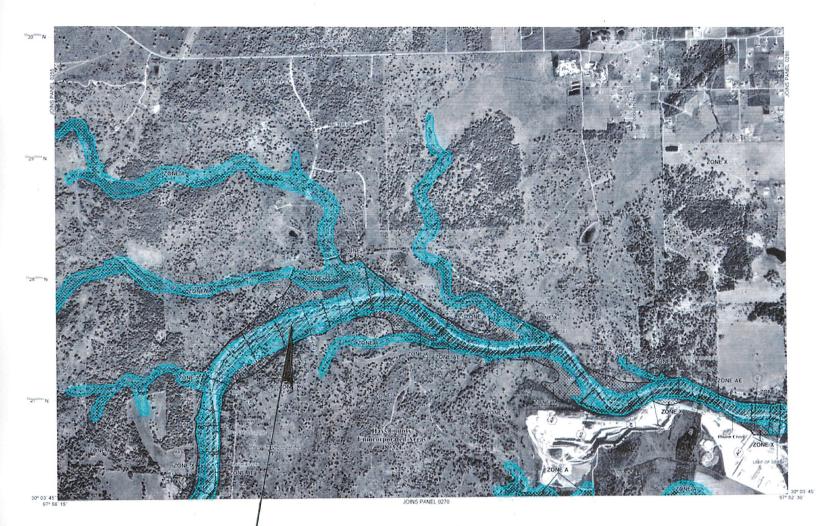
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District: 14	County:	105	Cont-Sec:	RR00 -00	Structure: 0	01 Rou	ite: Ruby	Ranch R	d.	
Company Name	e: Stone	Structu	ral Engine	ering (F-192)	Signature:		n		Date:	11/19/2014
Comments: Measurements t	taken on th	ne upstre	eam side of	the bridge wit	h a dropline.					
Duides farm deti			h.a. aa. ss.m.lam	our (Dasier	Dlana mat Avia	:labla)				
Bridge foundati	ion types a	ina aept	ns are unkn	own. (Design	Plans not Ava	ilable).			<del></del>	
Stream bed has	low proba	bility o	f scour/eros	ion due to rocl	k subgrade.					
					<del></del>		<u>.</u>			
Company Name	e:				Signature:				Date:	
Comments:										
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Company Name	e:				Signature:				Date:	
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Comments:							•			
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Company Name	e:	<del></del> -			Signature:				Date:	
Comments:							<b>-</b>			
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## CHANNEL PROFILE SHEET

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EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP FEBRUARY 18, 1998

EFFECTIVE DATE(5) OF REVISION(5) TO THIS PANEL



#### MAP SCALE 1" = 1000"

500 0 1000 2000 FEET 200 0 Not 600

# NFIP PROGRAM

FLOODHINSURANGE

#### PANEL 0260F

#### FIRM FLOOD INSURANCE RATE MA HAYS COUNTY, TEXAS AND INCORPORATED ARE

#### PANEL 260 OF 495

ISEE MAP INDEX FOR FIRM PANEL LAYOUT!

CONTAINS

COMMUNITY

NUMBER EAREL 480321 0250 481668 0260

Notice to User: The Map Number shown should be used when placing map orde Community Number shown above shoused on insurance applications for the community.



MAP NUM 48209CC MAP REV SEPTEMBER 2.

Bridge Location & Flood Plain Location



Modified (12-5-2000) for Microsoft Word 7.0, WIN95 & NT

## **Bridge Structural Condition History**

District:	14	County:	105	Cont-Sec:	RR00-00	Structure	001	Route:	Ruby Ranch Rd.	
Feature C	rossec	l: Onion	Creek							

	Load Posting 1085								Load I		Event-Prime Consultant									
<b>Condition Ratings</b>   58   59   60   61   6				Sign	O-Observed	Operating		Inventory		I-Initial R-Routine S-Special	Date									
61	60	59	58	mmended Type Qty 5		R-Recommended	HS	Н	HS	Н	D-Damage ID-In Depth									
		1				0-					Deidae Duilt	1995								
						R-					Bridge Built	1993								
6	7	8	8	0	•		0		0	0	0			O-None	27	_	20		I- Stone Structural	11/19/2014
0		•	•			R-None	27	-	20	-	1- Stone Structural	11/19/2014								
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e	nm 6	recor	g still	postin 2	igns; and	le or Tandem (R12-4Tb); 2 O- 12000-7500 R- Retain	lbs. Axl	nd 7500 10.1	3.0	12000 lb	idge having current posting of R- XYZ Engineering	xample of a bri 11-23-92								

R- Retain

## Sign Types

