

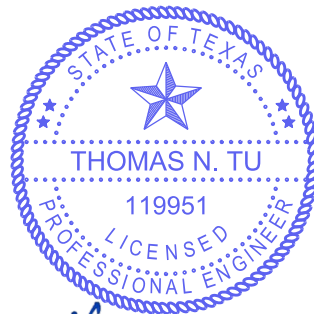


Bridge Inspection Report

142270011312090
LP343/CESAR CHAVEZ
over
SHOAL CREEK



Inspection Date: 02/23/2024
Inspected By: Thomas Tu
Inspection Type(s): Routine



Thomas Tu 15 Apr 2024

Barnhart Constructors, Inc. F-669
for Star Engineering Group, Inc. F-1919
TxDOT Contract 88-2IDP5059-WA#3

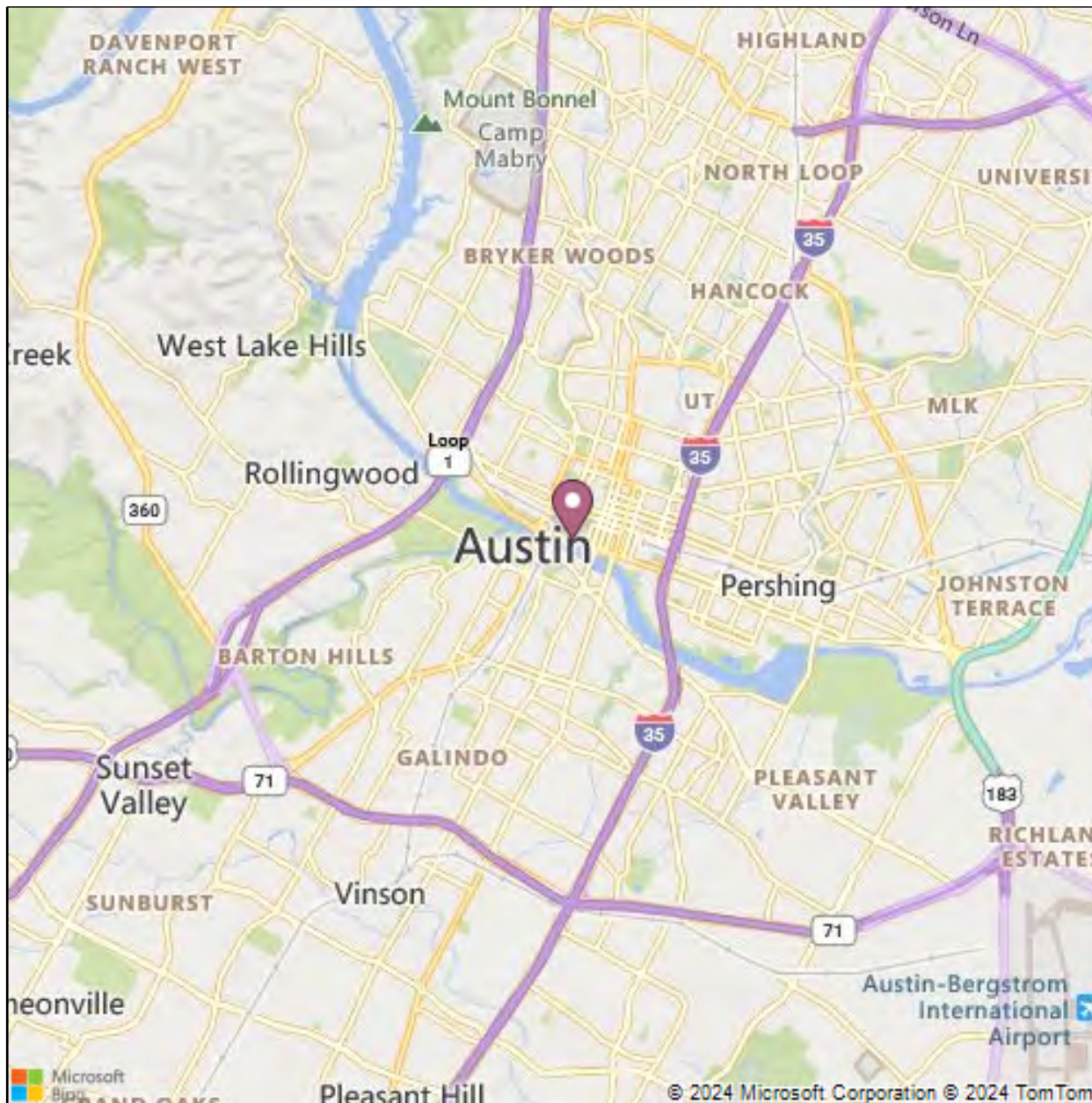
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Inspector: Tu,Thomas
Inspection Date: 02/23/2024
Parent Contract: 88-2IDP5059- Star Engineering Group, Inc.-RT



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ
Features Intersected: SHOAL CREEK



Latitude: 30.2652416

Longitude: -97.75120622

DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Bridge Inspection Follow-Up Action

FUA ID 725496

Initial Finding Information

Location Information

Bridge ID# 142270011312090 **Latitude** 30.2652416 **Longitude** -97.75120622 **County** 227-TRAVIS **Location** 1.0 MI W OF IH 35
Facility Carried LP343/CESAR CHAVEZ **Feature Crossed** SHOAL CREEK

Ownership/Responsibility

District AUS **Area Office** North Travis **Maintenance Section** 69 **Control - Section** 0113 - 12
System Designation 1 **Bridge Owner** **Precinct**

Maintenance Information

Inspection Date 02/23/2024 **Rec Type** Level 4 **Previously Recommended?** N **Critical Finding?** N
Bridge Component Superstructure **Repair Category** Repair Bearing

Other:

Description of Issue and Recommendation

BCI for Star Engineering Group 02-2024
 A few rocker bearings over west abutment have over rotated, with 0.5" gaps at interface between sole plates and beams. See photo.
 Monitor condition of rocker bearings over west abutment at routine inspection intervals.

District Bridge Office Comments

Comments By _____ Date _____

District Area or Assigned Maintenance Office Comments

Comments By _____ Date _____

Follow-up Action Resolution Comments

Work to be Completed Via: +Project Status: +District Estimated Letting Date:
 +District Proposed Funding Source: +CSJ / WO / Project ID: +Optional Fields

Action Taken: _____ Verified By _____ Date _____

+Additional Comments if Necessary:

CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)

Condition Rating (Affected elements only) Overall Recommendation: New Load Rating / Analysis Required?

Follow Up Inspection Information:

Automated Email Sent To:
 Date Bridge Division notified of Critical Finding: Date Bridge Owner notified of Critical Finding: Concur with findings:
 TxDOT Inspector: Co-Inspection Date w/ Bridge Owner: Bridge Owner Rep:
 Comments:

Temporary Repair Information:

TxDOT Inspector: Date Temporary Recommended Repair(s) Discussed w/Bridge Owner:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Temp Repair In Place: Date Temporary Repair was Installed: Date Bridge Division notified of Temp Repair:
 Comments:

Permanent Repair Information:

TxDOT Inspector: Permanent Repair Target Date:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Date Permanent Recommended Repair(s) Discussed w/Bridge Owner: Permanent Repair Construction Date: Date Bridge Division notified of Permanent Repair:
 Comments:

DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION

Bridge Inspection Report

Pictures



PHOTO 1

Description ROCKER BEARINGS - LOOKING SOUTHEAST
Note: A Few Rocker Bearings Over West Abutment Have Over Rotated, Resulting In 0.5" Gap At Interface Between Sole Plates And Beams. Condition Rated 6

Bridge Inspection Follow-Up Action

FUA ID 725495

Initial Finding Information

Location Information

Bridge ID# 142270011312090 Latitude 30.2652416 Longitude -97.75120622 County 227-TRAVIS Location 1.0 MI W OF IH 35

Facility Carried LP343/CESAR CHAVEZ Feature Crossed SHOAL CREEK

Ownership/Responsibility

District AUS Area Office North Travis Maintenance Section 69 Control - Section 0113 - 12

System Designation 1 Bridge Owner Precinct

Maintenance Information

Inspection Date 02/23/2024 Rec Type Level 3 Previously Recommended? N Critical Finding? N

Bridge Component Substructure Repair Category Perform Concrete Repair to Spalls (Horizontal, Vertical, Overhead)

Other:

Description of Issue and Recommendation

BCI for Star Engineering Group 02-2024
 Southwest wingwall has moderate spall with exposed rebar on top at southwest corner of bridge due to impact with deck overhang. East abutment backwall has moderate spalls with exposed corroded rebar at south end. See photos.
 Remove loose concrete and rust, then patch spalls with epoxy modified grout.

District Bridge Office Comments

Comments By Date

District Area or Assigned Maintenance Office Comments

Comments By Date

Follow-up Action Resolution Comments

Work to be Completed Via: +Project Status: +District Estimated Letting Date:
 +District Proposed Funding Source: +CSJ / WO / Project ID: +Optional Fields

Action Taken: Verified By Date

+Additional Comments if Necessary:

CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)

Condition Rating (Affected elements only) Overall Recommendation: New Load Rating / Analysis Required?

Follow Up Inspection Information:

Automated Email Sent To:
 Date Bridge Division notified of Critical Finding: Date Bridge Owner notified of Critical Finding: Concur with findings:
 TxDOT Inspector: Co-Inspection Date w/ Bridge Owner: Bridge Owner Rep:
 Comments:

Temporary Repair Information:

TxDOT Inspector: Date Temporary Recommended Repair(s) Discussed w/Bridge Owner:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Temp Repair In Place: Date Temporary Repair was Installed: Date Bridge Division notified of Temp Repair:
 Comments:

Permanent Repair Information:

TxDOT Inspector: Permanent Repair Target Date:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Date Permanent Recommended Repair(s) Discussed w/Bridge Owner: Permanent Repair Construction Date: Date Bridge Division notified of Permanent Repair:
 Comments:

DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION

Inspector: Thomas Tu

Structure Number: 142270011312090

Inspection Date:

Facility Carried:

Bridge Inspection Report

Pictures



PHOTO 1

Description EAST ABUTMENT BACKWALL - LOOKING NORTHEAST
Note: Moderate Spalls With Exposed Corroded Rebar In East Abutment Backwall Near South End.
Condition Rated 6



PHOTO 2

Description SOUTHWEST WINGWALL - LOOKING NORTH
Note: Southwest Wingwall Has Moderate Spall In Top Portion Due To Impact With South Deck
Overhang. Condition Rated 6

Bridge Inspection Follow-Up Action

FUA ID 725494

Initial Finding Information

Location Information

Bridge ID# 142270011312090 **Latitude** 30.2652416 **Longitude** -97.75120622 **County** 227-TRAVIS **Location** 1.0 MI W OF IH 35
Facility Carried LP343/CESAR CHAVEZ **Feature Crossed** SHOAL CREEK

Ownership/Responsibility

District AUS **Area Office** North Travis **Maintenance Section** 69 **Control - Section** 0113 - 12
System Designation 1 **Bridge Owner** **Precinct**

Maintenance Information

Inspection Date 02/23/2024 **Rec Type** Level 3 **Previously Recommended?** N **Critical Finding?** N
Bridge Component Deck **Repair Category** Repair Spalls (Partial-Depth)

Other:

Description of Issue and Recommendation

BCI for Star Engineering Group 02-2024
 Bridge deck surface has a one square foot spall with exposed rebar adjacent to west deck joint, and a few minor spalls in east span. Both deck overhangs have moderate spalls with exposed rebar bottom edges. See photos.
 Remove loose concrete and rust, then patch spalls with epoxy modified grout.

District Bridge Office Comments

Comments By _____ Date _____

District Area or Assigned Maintenance Office Comments

Comments By _____ Date _____

Follow-up Action Resolution Comments

Work to be Completed Via: +Project Status: +District Estimated Letting Date:
 +District Proposed Funding Source: +CSJ / WO / Project ID: +Optional Fields

Action Taken: _____ Verified By _____ Date _____

+Additional Comments if Necessary:

CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)

Condition Rating (Affected elements only) Overall Recommendation: New Load Rating / Analysis Required?

Follow Up Inspection Information:

Automated Email Sent To:
 Date Bridge Division notified of Critical Finding: Date Bridge Owner notified of Critical Finding: Concur with findings:
 TxDOT Inspector: Co-Inspection Date w/ Bridge Owner: Bridge Owner Rep:
 Comments:

Temporary Repair Information:

TxDOT Inspector: Date Temporary Recommended Repair(s) Discussed w/Bridge Owner:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Temp Repair In Place: Date Temporary Repair was Installed: Date Bridge Division notified of Temp Repair:
 Comments:

Permanent Repair Information:

TxDOT Inspector: Permanent Repair Target Date:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Date Permanent Recommended Repair(s) Discussed w/Bridge Owner: Permanent Repair Construction Date: Date Bridge Division notified of Permanent Repair:
 Comments:

DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION

Inspector: Thomas Tu

Structure Number: 142270011312090

Inspection Date:

Facility Carried:

Bridge Inspection Report

Pictures



PHOTO 1

Description NORTH DECK OVERHANG - LOOKING SOUTH
Note: North Deck Overhang Of East Span Has A 2 Square Foot Spall With Exposed Rebar In
Facia. Condition Rated 6



PHOTO 2

Description SOUTH DECK OVERHANG - LOOKING NORTHWEST
Note: Moderate Spalls With Exposed Rebar In Bottom Edge Of South Deck Overhang Of Center
And East Spans. Condition Rated 6

Inspector: Thomas Tu

Structure Number: 142270011312090

Inspection Date:

Facility Carried:

Bridge Inspection Report

Pictures



PHOTO 3

Description SOUTH DECK OVERHANG - LOOKING NORTHWEST
Note: Moderate Spalls With Exposed Rebar In Bottom Edge Of South Deck Overhang Of Center Span. Condition Rated 6



PHOTO 4

Description BRIDGE DECK - LOOKING NORTHWEST
Note: Bridge Deck Of East Span Has A Few Spalls 1" Deep Or Less. Condition Rated 6

Inspector: Thomas Tu

Structure Number: 142270011312090

Inspection Date:

Facility Carried:

Bridge Inspection Report

Pictures

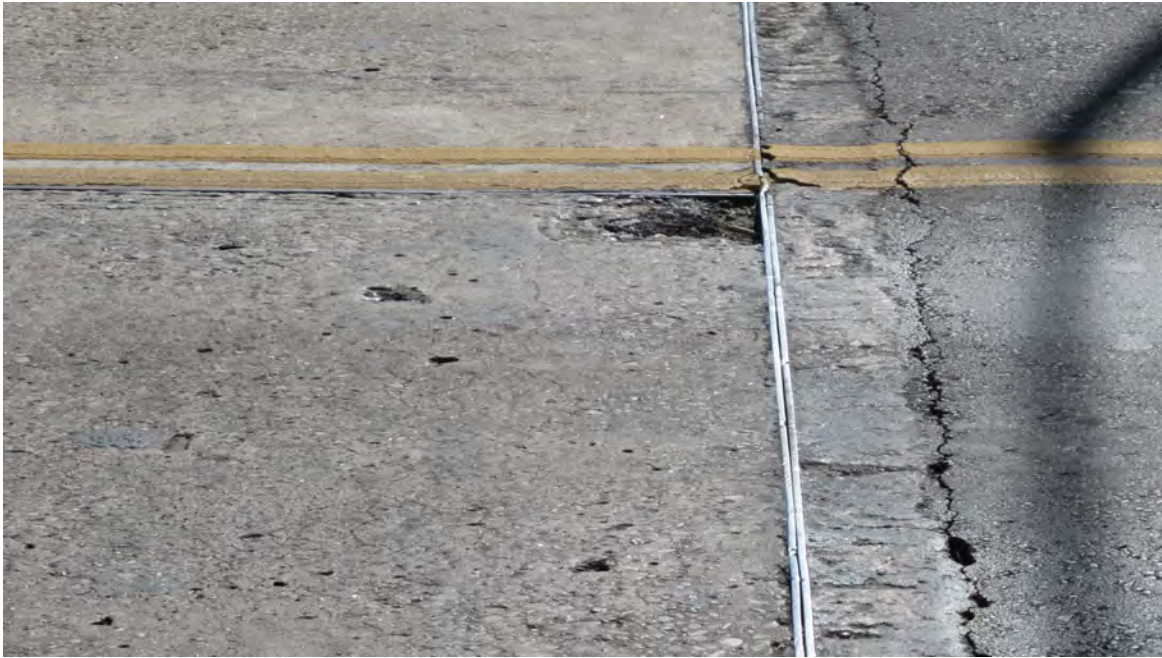


PHOTO 5

Description BRIDGE DECK - LOOKING SOUTH
Note: Bridge Deck Of West Span Has Moderate Scaling And A square Foot Spall With Exposed Rebar Adjacent To Deck Joint. Deck Joint Is Closed. Conditions Rated 6

Bridge Inspection Follow-Up Action

FUA ID 725493

Initial Finding Information

Location Information

Bridge ID# 142270011312090 Latitude 30.2652416 Longitude -97.75120622 County 227-TRAVIS Location 1.0 MI W OF IH 35

Facility Carried LP343/CESAR CHAVEZ Feature Crossed SHOAL CREEK

Ownership/Responsibility

District AUS Area Office North Travis Maintenance Section 69 Control - Section 0113 - 12
 System Designation 1 Bridge Owner Precinct

Maintenance Information

Inspection Date 02/23/2024 Rec Type Level 3 Previously Recommended? N Critical Finding? N

Bridge Component Channel Repair Category Fill Voids (Backwalls, Wingwalls, Riprap, etc)

Other:

Description of Issue and Recommendation

BCI for Star Engineering Group 02-2024
 Southeast bank riprap has erosion 24" deep and has been undermined at least 5' back along south edge of east riprap. See photos.
 Pump flowable fill into void under riprap, then place rock or concrete rubble into erosion area along southeast bank riprap edge.

District Bridge Office Comments

Comments By Date

District Area or Assigned Maintenance Office Comments

Comments By Date

Follow-up Action Resolution Comments

Work to be Completed Via: +Project Status: +District Estimated Letting Date:
 +District Proposed Funding Source: +CSJ / WO / Project ID: +Optional Fields

Action Taken: Verified By Date

+Additional Comments if Necessary:

CRITICAL FINDING FOLLOW UP INFORMATION (BLANK IF FOLLOW UP ACTION IS NOT A CRITICAL FINDING)

Condition Rating (Affected elements only) Overall Recommendation: New Load Rating / Analysis Required?

Follow Up Inspection Information:

Automated Email Sent To:
 Date Bridge Division notified of Critical Finding: Date Bridge Owner notified of Critical Finding: Concur with findings:
 TxDOT Inspector: Co-Inspection Date w/ Bridge Owner: Bridge Owner Rep:
 Comments:

Temporary Repair Information:

TxDOT Inspector: Date Temporary Recommended Repair(s) Discussed w/Bridge Owner:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Temp Repair In Place: Date Temporary Repair was Installed: Date Bridge Division notified of Temp Repair:
 Comments:

Permanent Repair Information:

TxDOT Inspector: Permanent Repair Target Date:
 Bridge Owner Rep: Co-Inspection Date w/Bridge Owner:
 Date Permanent Recommended Repair(s) Discussed w/Bridge Owner: Permanent Repair Construction Date: Date Bridge Division notified of Permanent Repair:
 Comments:

DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409, SAFETY SENSITIVE INFORMATION

Inspector: Thomas Tu

Structure Number: 142270011312090

Inspection Date:

Facility Carried:

Bridge Inspection Report

Pictures



PHOTO 1

Description **SOUTHEAST BANK RIPRAP - LOOKING SOUTHEAST**
Note: Moderate Erosion 24" Deep Along Edge Of Southeast Bank Riprap. Riprap Has Moderate Cracks And Is Undermined At Least 5' Back From Riprap Edge. See Photo 18. Condition Rated 6



PHOTO 2

Description **SOUTHEAST BANK RIPRAP - LOOKING NORTHWEST**
Note: Moderate Erosion 24" Deep Along Edge Of Southeast Bank Riprap. Riprap Has Moderate Cracks And Is Undermined At Least 5' Back From Riprap Edge. Condition Rated 6



BRIDGE INSPECTION RECORD

Structure Number	142270011312090	Inspector	Tu, Thomas
Facility Carried	LP343/CESAR CHAVEZ	Inspection Date	02/23/2024
Feature Intersected	SHOAL CREEK	Maint. Section	69

Condition Rating	Description*
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, local failures possible
2	Critical Condition - advance deterioration of primary elements, bridge should be closed until repaired
1	Failing Condition - bridge closed but repairable
0	Failed Condition - bridge closed and beyond repair

Seal:

Signature & Date: *Thomas N. Tu* 15 Apr 2024

Prime Firm Name & Number:
Star Engineering Group, Inc., F-1919

Sub Firm Name & Number:
Barnhart Constructors, Inc. F-669

*These descriptions are for items 58, 59, 60 and 65. Code Items 61 and 62 according to the TxDOT Coding Guide.

Bridge Description:

3 Span Continuous Variable Depth Concrete T-Beam Bridge on Concrete Substructure

General Comments:

3 Spans: 43', 59.5', 43'

Surveyed: West to East

**DECK
(ITEM 58)**

Structure ID: 142270011312090 Inspection Date: 02/23/2024

DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Deck - Component Rating	Concrete	1	6	Concrete bridge deck has widespread minor transverse cracks and scaling in surface. Bridge deck surface also has a square foot spall with exposed rebar adjacent to west deck joint and a few minor spalls in east span. See photos 11 to 13. Both deck overhangs have moderate spalls with exposed rebar along bottom edges. See photos 8 to 10.
Wearing Surface		6	N	
Surfacing Thickness:	inches			
Fill Height:	inches			
Joints, Expansion, Open		6	6	Deck open joints are closed. Armor plates have minor distortions. Bridge deck has minor spalls behind armor plate joints. See photos 11 and 13.
Joints, Expansion, Sealed		6	N	
Joints, Other		6	N	
Drainage System		6	8	
Curbs, Sidewalk & Parapets		6	7	Curbs and sidewalks have minor cracks.
Median Barrier		6	N	
Railings	Non-standard Steel	6	7	A few concrete rail posts have minor cracks and edge spalls.
Railing Type:				
Railing Protective Coating		7	8	
Delineation		7	N	
Other		-	N	

**SUPERSTRUCTURE
(ITEM 59)**

Structure ID: 142270011312090 Inspection Date: 02/23/2024

DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Main Members - Steel		0	N	
Main Members - Concrete		0	7	Reinforced concrete T-beams have minor vertical cracks in stems.
Main Members - Timber		0	N	
Main Members - Connections		0	N	
Floor System Members		1	N	
Floor System Connections		1	N	
Secondary Members		5	7	Diaphragms have minor cracks.
Secondary Mem. Connections		5	7	Diaphragms have minor cracks.
Expansion Bearings		6	6	A few rocker bearings over west abutment have over rotated with 0.5" gaps at interface between sole plates and beams. See photo 15.
Fixed Bearings		6	7	Fixed bearing plates have minor rust.
Steel Protective Coating		6	8	
Other		-	N	
Overall Component Rating			6	

**SUBSTRUCTURE
(ITEM 60)**

Structure ID: 142270011312090 Inspection Date: 02/23/2024
DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Abutment Caps		0	7	Abutment caps have minor cracks.
Above Ground		0	8	
Below Ground or Foundation		0	8	
Backwalls & Wingwalls		0	7	Southwest wingwall has moderate spall with exposed rebar on top at southwest corner of bridge due to impact with deck overhang; see photo 16. East abutment backwall has moderate spalls with exposed corroded rebar at south end; see photo 14. Abutment backwalls have minor cracks.
Intermediate Supports:				
Caps - Concrete		-	7	Interior bent caps have minor cracks.
Caps - Steel		-	N	
Caps - Timber		-	N	
Above Ground - Concrete		-	7	Columns have minor edge spalls.
Above Ground - Steel		-	N	
Above Ground - Timber		-	N	
Above Ground - Masonry		-	N	
Below Ground or Foundation		-	8	
Collision Protection System		5	N	
Steel Protective Coating		6	N	
Overall Component Rating			7	

**CHANNEL
(ITEM 61)**

Structure ID: 142270011312090 Inspection Date: 02/23/2024
DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Channel Banks		0	6	Southeast bank riprap has erosion 24" deep and has been undermined at least 5' back along south edge of east riprap. See photos 17 and 18. Erosion at northeast corner of bridge has been repaired.
Channel Bed		0	8	
Rip Rap, Toe Walls & Apron		5	6	Southeast bank riprap has erosion 24" deep and has been undermined at least 5' back along south edge of east riprap. See photos 17 and 18. Erosion at northeast corner of bridge has been repaired.
Dikes		5	N	
Jetties		5	N	
Other		-	N	
Overall Component Rating			6	

**CULVERTS
(ITEM 62)**

Structure ID: 142270011312090 Inspection Date: 02/23/2024
DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Top Slabs		0	N	
Bottom Slab or Footing		0	N	

Abutments, Intermed. Supports	0	N
Headwalls & WingWalls	5	N
Other	-	N

Overall Component Rating	N
---------------------------------	----------

**APPROACHES
(ITEM 65)**

Structure ID: 142270011312090 Inspection Date: 02/23/2024
DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Embankments		0	8	
Embankment Retaining Walls		4	N	
Slope Protection		5	8	
Roadway	Concrete	5	7	Concrete approach slabs have minor longitudinal and diagonal cracks. Southwest sidewalk curb has a 5' long spall.
Relief Joints		6	N	
Drainage		6	8	
Guardfence		6	N	
Delineation		7	7	Object markers are missing at northwest and southeast corners.
Sight Distance		7	8	
Other		-	N	

Overall Component Rating	7
---------------------------------	----------

MISCELLANEOUS

Structure ID: 142270011312090 Inspection Date: 02/23/2024
DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Component	Description	Min.	Rating	Comment
Signs		N	N	
Illumination		N	N	
Warning Devices		N	N	
Utility Lines		7	8	
Other	Bridge Identification	N	8	Control section structure number is in good condition.

APPRAISAL RATINGS

Structure ID: 142270011312090 Inspection Date: 02/23/2024
DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

TRAFFIC SAFETY FEATURES (ITEM 36)	Rating	Comment
0 - Does not meet current standards	0	Non-standard Bridge rails, 3'-0" tall
1 - Meets current standards	0	No approach guardfence
N - Not applicable	0	
Bridge Rails:	0	
Transitions:	0	
Appr. Rails:	0	
Appr. Rail Ends:	0	
WATERWAY ADEQUACY (ITEM 71)	6	Occasional overtopping of roadway approach with insignificant traffic delays
APPROACH ROADWAY ALIGNMENT (ITEM 72)	8	Approach alignments are good. No Speed Reduction



BRIDGE INVENTORY RECORD

Structure Number	142270011312090	Inspector	Tu, Thomas
Facility Carried	LP343/CESAR CHAVEZ	Inspection Date	02/23/2024
Feature Intersected	SHOAL CREEK	Maint. Section	69

District	14-Austin	County	227-TRAVIS
Milepoint	05.357	System	1 - On System
		Latitude	30.2652416
		Longitude	-97.75120622
General Description: 3 Span Continuous Variable Depth Concrete T-Beam Bridge on Concrete Substructure			
Bridge Length (ft.)	146	Deck Width (ft.)	72.4
Skew Angle (degrees)	0	Clear Width Between (ft.)	50.2
Right / Left Forward		Measurement Feature	Rails
Vertical Over-Clearance	99.99	<input checked="" type="checkbox"/> Unimpaired Over-Clearance	
Surfacing Type		Deck Type	1 - Concrete Cast-in-Place
Lanes On	05	Lanes Under	00
Bridge Rail	NS Steel & Concrete	Approach Roadway Width (ft.)	60.0

Seal:

Signature & Date: *Thomas N. Tu* 15 Apr 2024

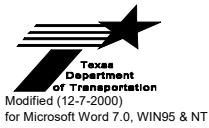
Prime Firm Name & Number:
Star Engineering Group, Inc., F-1919

Sub Firm Name & Number:
Barnhart Constructors, Inc. F-669

Superstructure:	Spans	1-3		
Main:	Type	Variable Depth Concrete T-Beam	Size	17" wide
	Spacing	7'-4.5"	Controlling Span Length (C-C bearings)	59.5
Superstructure:	Spans			
Major Approach:	Type		Size	Number
	Spacing		Controlling Span Length (C-C bearings)	
Superstructure:	Spans			
Minor Approach:	Type		Size	Number
	Spacing		Controlling Span Length (C-C bearings)	

Estimated Deck Overtopping Frequency	11 - 100	Comments:
Estimated Approach Overtopping Frequency	11 - 100	Bridge Rail Height ~36"
Horizontal / Vertical Alignment	Good / Good	
Regulatory / Advisory Speeds	35 / None	
Year Built	1934	Year(s) Widened
Posted Load Restriction	NNN	<input checked="" type="checkbox"/> No Restriction
Design Load	0 - Unknown (No plans or plans/sketch with no stated design load)	
Design Method	Other	

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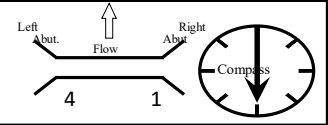


CHANNEL CROSS-SECTION MEASUREMENTS RECORD

District: 14 County: 227 Cont-Sec: 0113 - 12 Structure: 090 Route: LP 343/CESAR CHAVEZ
 Feature Crossed: SHOAL CREEK

If measurements were taken with any device other than a drop line or tape measure, please describe method in comment section.
 Please record any important comments on the reverse side.

- Reference Features:**
- | | | | |
|-------------------|-------------------|------------------|-------------------|
| A. Top of Railing | B. Edge of Deck | C. Top of Curb | D. Top of Parapet |
| E. Sidewalk | F. Top of Cap | G. Water Surface | H. Channel |
| I. Rigid Rip-Rap | J. Rubble Rip-Rap | K. _____ | L. _____ |



Bent #	Notes (Item 44)	Total Horiz. Dist.	Star Engineering Group, Inc.																
			F-1919																
			Date:		Date:		Date:		Date:		Date:		Date:		Date:		Date:		
			02/23/2024																
<input checked="" type="checkbox"/> Upstream		<input type="checkbox"/> Downstream		<input type="checkbox"/> Upstream		<input type="checkbox"/> Downstream		<input type="checkbox"/> Upstream		<input type="checkbox"/> Downstream		<input type="checkbox"/> Upstream		<input type="checkbox"/> Downstream					
Distance from Last Bent	Top Ref.	Bot. Ref.	Vertical Distance	Distance from Last Bent	Top Ref.	Bot. Ref.	Vertical Distance	Distance from Last Bent	Top Ref.	Bot. Ref.	Vertical Distance	Distance from Last Bent	Top Ref.	Bot. Ref.	Vertical Distance	Distance from Last Bent	Top Ref.	Bot. Ref.	Vertical Distance
1	W Abut	0.0'	0.0'	C	I	4.4'													
		2.0'	2.0'		I	6.8'													
		14.0'	14.0'		I	11.3'													
		25.0'	25.0'		E	11.5'													
		25.0'	25.0'		I	17.6'													
		35.0'	35.0'		J	20.8'													
2	Bent	43.0'	43.0'		H	21.6'													
		73.0'	30.0'			21.6'													
3	Bent	103.0'	60.0'			23.3'													
		126.0'	23.0'			22.3'													
		136.0'	33.0'			22.5'													
		140.0'	37.0'			10.0'													
		144.0'	41.0'			7.7'													
4	E Abut	146.0'	43.0'	C	H	4.3'													
	Bottom Chord			C	F	4.5'													
	Water Level			C	G	22.6'													

District: 14 County: 227 Cont-Sec: 0113 - 12 Structure: 090 Route: LP 343/CESAR CHAVEZ

Company Name: Star Engineering Group, Inc. F-1919 Company Number: F-1919
Signature: *Thomas* 15 Apr 2024 Date: February 23, 2024
Comments:

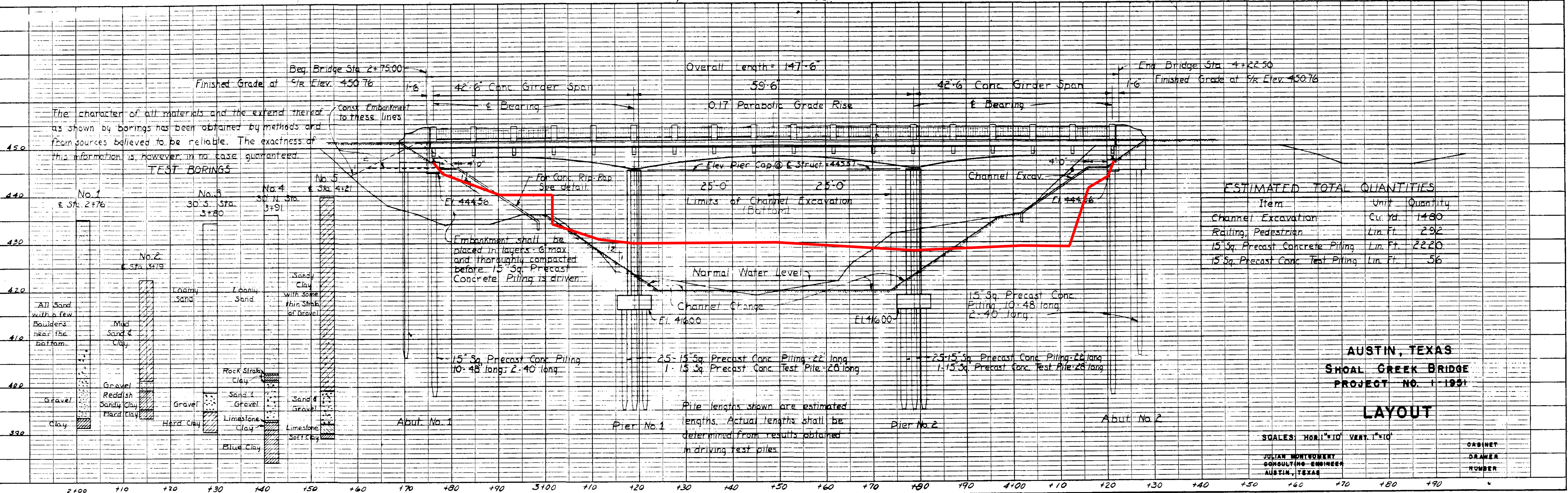
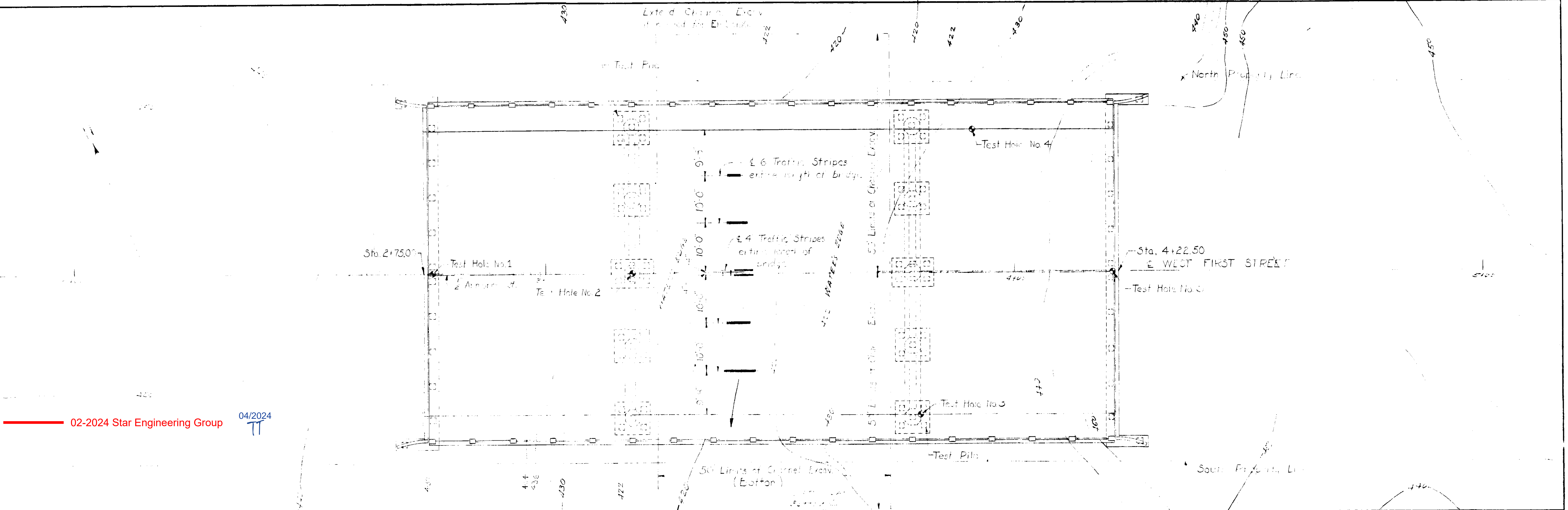
Channel Profile Measured From Upstream Side of Bridge With a Drop Line.

Company Name: _____ Company Number: _____
Signature: _____ Date: _____
Comments:

Company Name: _____ Company Number: _____
Signature: _____ Date: _____
Comments:

Company Name: _____ Company Number: _____
Signature: _____ Date: _____
Comments:

PLAN
 NOTE: ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED
 IN FEET AND INCHES



ESTIMATED TOTAL QUANTITIES

Item	Unit	Quantity
Channel Excavation	Cu. Yd.	1480
Railing, Pedestrian	Lin. Ft.	292
15 Sq. Precast Concrete Piling	Lin. Ft.	2220
15 Sq. Precast Conc. Test Piling	Lin. Ft.	56

AUSTIN, TEXAS
 SHOAL CREEK BRIDGE
 PROJECT NO. 1-1991

LAYOUT

SCALES: HOR. 1"=10' VERT. 1"=10'

JULIAN MONTGOMERY
 CONSULTING ENGINEER
 AUSTIN, TEXAS

CABINET
 DRAWER
 NUMBER

1-5003

02-2024 Star Engineering Group 04/2024

Inspector: Tu,Thomas
 Inspection Date: 02/23/2024
 Parent Contract: 88-2IDP5059- Star Engineering Group, Inc.-RT



Structure Number: 142270011312090
 Facility Carried: LP343/CESAR CHAVEZ
 Features Intersected: SHOAL CREEK

	Environment	Total Quantity	Units	Condition State 1	Condition State 2	Condition State 3	Condition State 4
12-Reinforced Concrete Deck	3 - Mod.	10513	sq. ft.	1043	9460	10	0
1080-Delamination/Spall/Patched Area		20		0	10	10	0
1130-Cracking (RC and Other)		4200		0	4200	0	0
1190-Abrasion/Wear (PSC/RC)		5250		0	5250	0	0
110-Reinforced Concrete Open Girder/Beam	3 - Mod.	1455	ft.	1409	46	0	0
1080-Delamination/Spall/Patched Area		6		0	6	0	0
1130-Cracking (RC and Other)		40		0	40	0	0
205-Reinforced Concrete Column	3 - Mod.	10	each	10	0	0	0
215-Reinforced Concrete Abutment	3 - Mod.	144	ft.	134	10	0	0
1080-Delamination/Spall/Patched Area		2		0	2	0	0
1130-Cracking (RC and Other)		8		0	8	0	0
234-Reinforced Concrete Pier Cap	3 - Mod.	128	ft.	124	4	0	0
1130-Cracking (RC and Other)		4		0	4	0	0
304-Open Expansion Joint	3 - Mod.	120	ft.	80	40	0	0
2360-Adjacent Deck or Header		40		0	40	0	0
311-Movable Bearing	3 - Mod.	20	each	0	20	0	0
1000-Corrosion		15		0	15	0	0
2220-Alignment		5		0	5	0	0
330-Metal Bridge Railing	3 - Mod.	291	ft.	260	31	0	0
1000-Corrosion		31		0	31	0	0

DO NOT DISCLOSE. THIS INFORMATION IS CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT & 23 U.S.C SECTION 409, SAFETY SENSITIVE INFORMATION.

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 1

Description ROADWAY VIEW - LOOKING EAST



PHOTO 2

Description ELEVATION VIEW - LOOKING NORTHEAST

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 3

Description SUPERSTRUCTURE VIEW - LOOKING EAST



PHOTO 4

Description STREAM UNDER BRIDGE - LOOKING SOUTH

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 5

Description UPSTREAM CHANNEL - LOOKING NORTH



PHOTO 6

Description DOWNSTREAM CHANNEL - LOOKING SOUTH

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 7

Description EAST GABION RIPRAP - LOOKING NORTH
Note: Cement Stabilized Sand Has Been Packed Into Gap Between East Abutment Cap And Top Of Gabion Riprap .



PHOTO 8

Description NORTH DECK OVERHANG - LOOKING SOUTH
Note: North Deck Overhang Of East Span Has A 2 Square Foot Spall With Exposed Rebar In Facia. Condition Rated 6

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 9

Description SOUTH DECK OVERHANG - LOOKING NORTHWEST
Note: Moderate Spalls With Exposed Rebar In Bottom Edge Of South Deck Overhang Of Center And East Spans. Condition Rated 6



PHOTO 10

Description SOUTH DECK OVERHANG - LOOKING NORTHWEST
Note: Moderate Spalls With Exposed Rebar In Bottom Edge Of South Deck Overhang Of Center Span. Condition Rated 6

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 11

Description EAST DECK JOINT - LOOKING NORTH
Note: Deck Open Joints Are Closed. Armor Plates Have Minor Distortions. Deck Has Several Minor Transverse Cracks And Moderate Scaling With Exposed Aggregate. Conditions Rated 6



PHOTO 12

Description BRIDGE DECK - LOOKING NORTHWEST
Note: Bridge Deck Of East Span Has A Few Spalls 1" Deep Or Less. Condition Rated 6

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 13

Description BRIDGE DECK - LOOKING SOUTH
Note: Bridge Deck Of West Span Has Moderate Scaling And A square Foot Spall With Exposed Rebar Adjacent To Deck Joint. Deck Joint Is Closed. Conditions Rated 6



PHOTO 14

Description EAST ABUTMENT BACKWALL - LOOKING NORTHEAST
Note: Moderate Spalls With Exposed Corroded Rebar In East Abutment Backwall Near South End. Condition Rated 6



Bridge Inspection Report

Pictures



PHOTO 15

Description **ROCKER BEARINGS - LOOKING SOUTHEAST**
Note: A Few Rocker Bearings Over West Abutment Have Over Rotated, Resulting In 0.5" Gap At Interface Between Sole Plates And Beams. Condition Rated 6



PHOTO 16

Description **SOUTHWEST WINGWALL - LOOKING NORTH**
Note: Southwest Wingwall Has Moderate Spall In Top Portion Due To Impact With South Deck Overhang. Condition Rated 6

Inspector: Thomas Tu
Inspection Date: 02/23/2024



Structure Number: 142270011312090
Facility Carried: LP343/CESAR CHAVEZ

Bridge Inspection Report

Pictures



PHOTO 17

Description **SOUTHEAST BANK RIPRAP - LOOKING SOUTHEAST**
Note: Moderate Erosion 24" Deep Along Edge Of Southeast Bank Riprap. Riprap Has Moderate Cracks And Is Undermined At Least 5' Back From Riprap Edge. See Photo 18. Condition Rated 6



PHOTO 18

Description **SOUTHEAST BANK RIPRAP - LOOKING NORTHWEST**
Note: Moderate Erosion 24" Deep Along Edge Of Southeast Bank Riprap. Riprap Has Moderate Cracks And Is Undermined At Least 5' Back From Riprap Edge. Condition Rated 6



BRIDGE STRUCTURAL CONDITION HISTORY

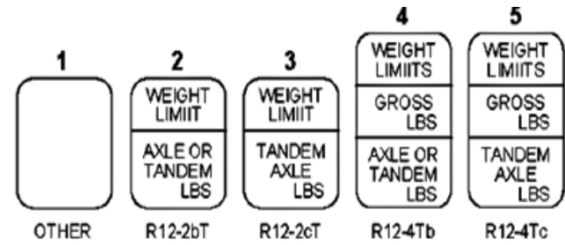
Form 2238
(12/07)
Page 1 of 1

District #: 14 County #: 227
 Cont-Sec: 0113 - 12 Structure #: 090 Route: LP 343/ Cesar Chavez
 Feature Crossed: Shoal Creek Maintenance Section: 69

Date:	Event - Prime Consultant I = Initial R = Routine S - Special D - Damage ID = In Depth	Load Rating				Load Posting			1085 Condition Ratings				
		Inventory		Operating		O - Observed R - Recommended	Sign Type:	Qty:	58	59	60	61	62
		H	HS	H	HS								
1934	Bridge Built												
2/23/2024	R - Star Engineering Group, Inc. F-1919		15.2		25.4	O - None R - None			6	6	6	6	N
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							
						O - R -							

Example: Bridge having current posting of 12,000 lbs. Gross and 7,500 lbs. Axle or Tandem (R12 - 4Tb); 2 signs; and posting still recommended

11/23/92	R - XYZ Engineering	5.2	3.0	10.1	6.9	O - 12,000 - 7,500 R - Retain	4	2	6	4	6	7	N
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DO NOT DISCLOSE - INFORMATION CONFIDENTIAL UNDER THE TEXAS HOMELAND SECURITY ACT AND 23 USC SECTION 409 SAFETY SENSITIVE INFORMATION