

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 407.48  
 Location Santa Paula Branch Line  
Saticoy, CA  
 Stream X Overpass        Other         
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 8:15AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open Number of Tks 1 Visual Condition Rating 4  
RAIL Weight: 132 # Type: Welded Visual Condition Rating: 5  
 Notes:         
TIES Type: Timber Tie Condition Rating: 3  
 Notes: Ties are split - see photo  
BALLAST Depth: N/A Ballast Condition Rating:         
 Notes:         
DECK PLANKS Type: N/A Condition Rating:        Notes:         
OTHER Type:        Condition Rating:       

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels        Round or Rect        Size         
 Approx Lngth.        Concrete        Steel         
 Bridge: Steel        Timber 30' Concrete         
 Type: Truss        Deck Girder        Through         
 Trestle X Girder         
 Num Spans 2 Approx. Span Lengths 14' 6"  
 Notes: Open Deck Trestle - Built 1947

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Concrete Notes         
 Abutment: 5 Type Concrete Notes         
 Wingwalls: 5 Type Timber Notes         
 Embank        Type        Notes         
 Footing        Type        Notes         
 Inaccessible areas:       

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth 1" Scour Evidence        Moving Water yes  
 Notes 3' scour downstream of pavement - see photo

## OVERALL RATING

High Priority        Medium Priority        Low Priority X

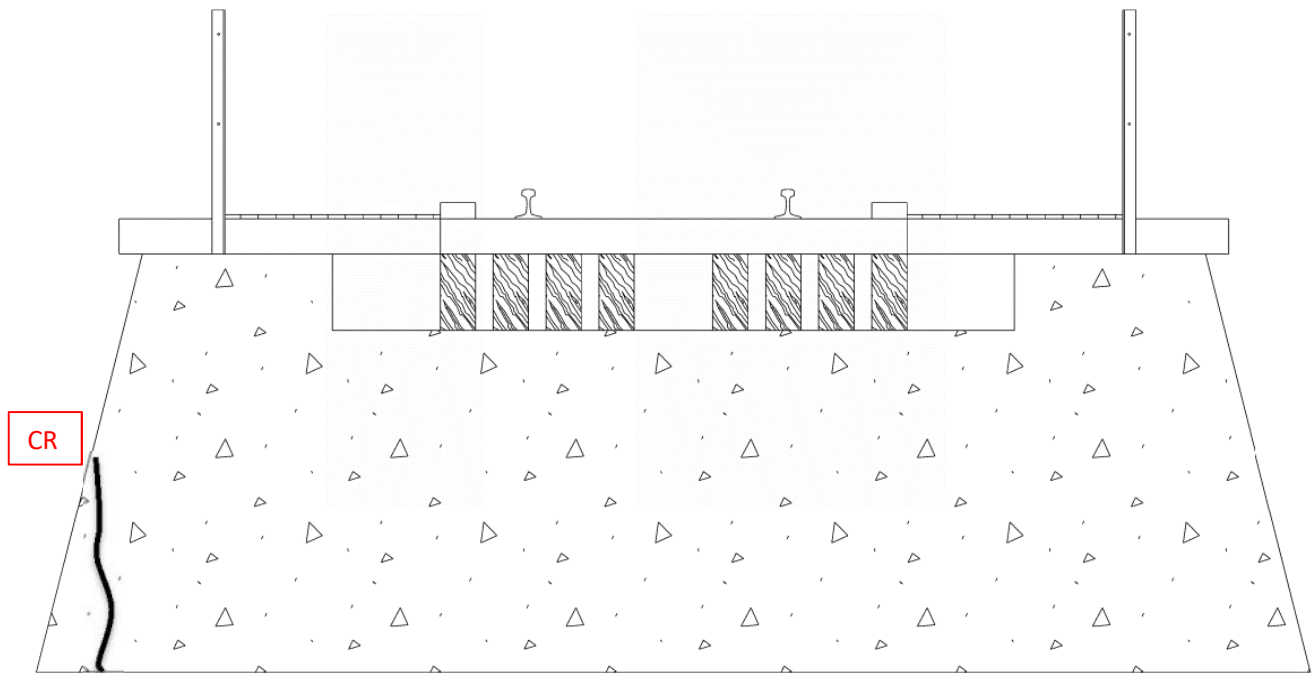
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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE

Span: 1	Alignment: TANGENT	Vert. Clear: 5'-4"	Bridge No.	407.48
DETAILS - ABUTMENT NUMBER: 1			Span Length:	14' 6"



Description: Looking West - (8) 8"x17.5" Timber Stringers, Concrete Abutment

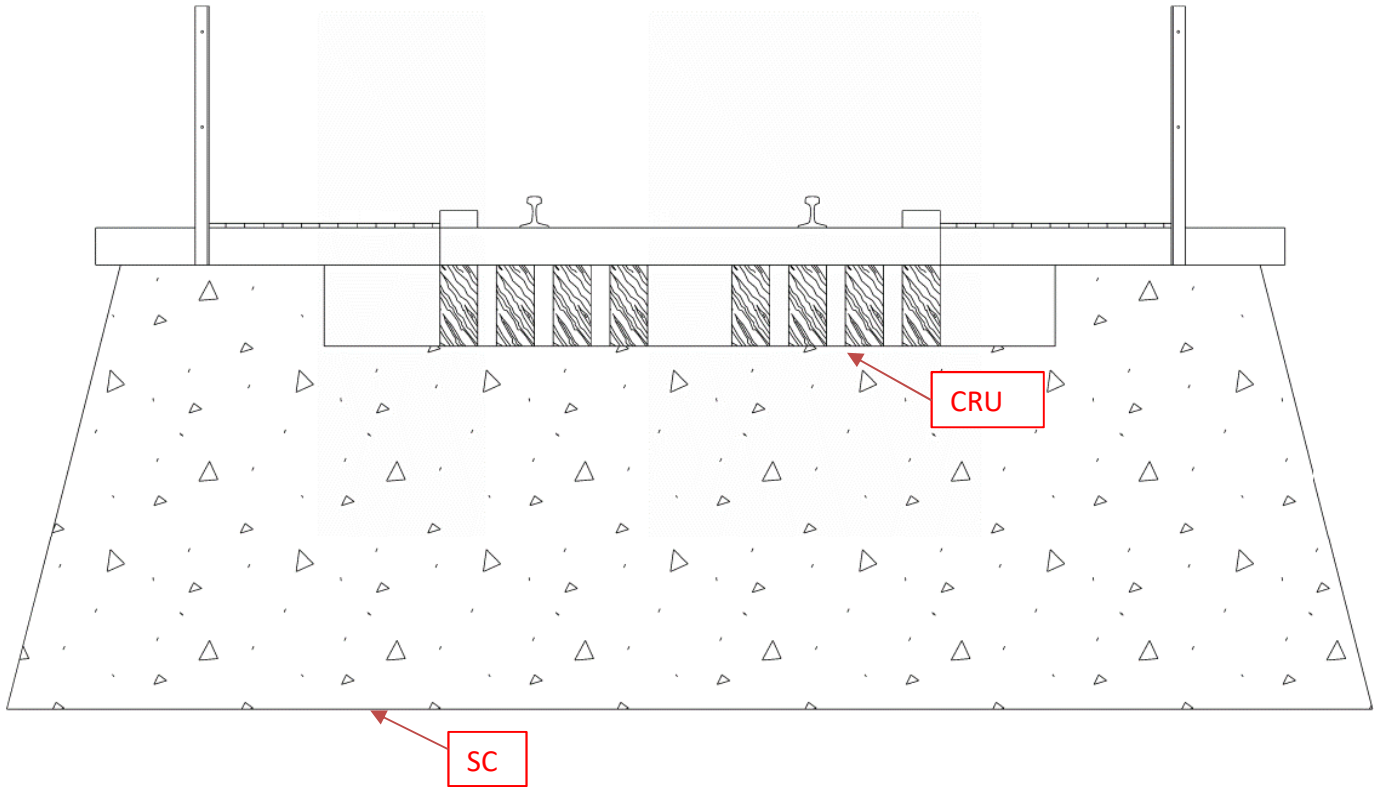
### Remarks:

1. CR - Crack in southwest wingwall - see photo
2. North west wingwall undermining - see photo

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE					
Span:	2	Alignment:	TANGENT	Vert. Clear:	5'-4"
				Bridge No.	407.48
DETAILS - PIER NUMBER: 2				Span Length:	14' 6"
<b>Description: Looking East- (8) 8"x17.5" Timber Stringers, Concrete Pier</b>					
<b>Remarks:</b>					
1. SP - Minor spall on the south face of the pier - see photo					
2. SP - Moderate spall north side - see photo					
3. DEB - Debris accumulation upstream pier - see photo					
4. Scaling along base (east face)					
Inspected By:	Joseph Holste, PE		Date Inspected:	12/11/2019	

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>5'-4"</b>	Bridge No.	<b>407.48</b>
DETAILS - ABUTMENT NUMBER: <b>3</b>		Span Length:	



**Description: Looking East - (8) 8"x17.5" Timber Stringers, Concrete Abutment**

1. CRU - Stringers crushing 1/4" - see photo
2. SC - Scaling at base
3. Northeast wingwall eroding - see photo

## Inspection Photos



**407.48 Looking East**



**407.48 Looking West**



## Inspection Photos



407.48 Looking North



407.48 Looking South



## Inspection Photos



**407.48 Channel Condition – Looking Upstream**



**407.48 Channel Condition – Looking Downstream**



## Inspection Photos



**407.48 Northwest Wingwall Undermining**



**407.48 Southwest Wingwall Crack**



## Inspection Photos



**407.48 Typical Tie Condition - Split**



**407.48 Scour at Downstream End of Channel Paving – approximately 3'**

## Inspection Photos



407.48 Spall on south side of Pier 2



407.48 SE Walkway Panel Deflection Damage



## Inspection Photos



**407.48 Spall and debris on upstream side of Pier**



**407.48 Stringers crushing  $\frac{1}{4}$ " at Abutment 3**



## Inspection Photos



**407.48 Scaling at Base at Abutment 3**



**407.48 NE Wingwall Erosion**

## Culvert Inspection Form

DIVISION	Santa Paula	CULVERT NO.	MP 408.02	TYPE OF CULVERT	17'x11' CBC
BRANCH	Santa Paula	NO. OF SPANS	1	Length of Culvert	17'
LOCATION	Saticoy, CA				
OVERALL RATING	5		DRAINAGE	1	1984

ITEM	GENERAL	CONDITION RATING	REMARKS
1	Action Under Trains	7	No Trains
2	Embankment	5	
3	Track Over Culvert	5	Approaches slightly low
	<b>STREAM CONDITIONS</b>		
4	Alignment	5	
5	Channel	5	Fenced concrete channel
6	Paving Through Culvert	5	
7	Rip Rap	N/A	
8	Sheet Piling Protection	N/A	
9	Cleanliness	CLEAN	
	<b>MASONRY</b>		
10	Abutment	5	
11	Arch Ring	N/A	
12	Headwalls	5	
13	Wingwalls	5	
14	Foundations	5	
15	Roofs	5	
16	Walls	5	
17	Piers	N/A	
18	Parapet Walls	5	
19	Pointing	N/A	
20	Cradles	N/A	
21	Previous Gunite	N/A	
22	Slab	5	
23	Pipes-Metal/Concrete	N/A	

Remarks:

1. Minor cracking at abutments
2. Fouled ballast across culvert
3. Ties partially covered and in poor condition
4. Vertical crack center of abutments (East and West)
5. Longitudinal crack on the South underside of the slab.

NOTE ANY SCOUR, SETTLEMENT, DISTRESS, SLIDE FAILURE, BACKWATER OR OBSTRUCTION.

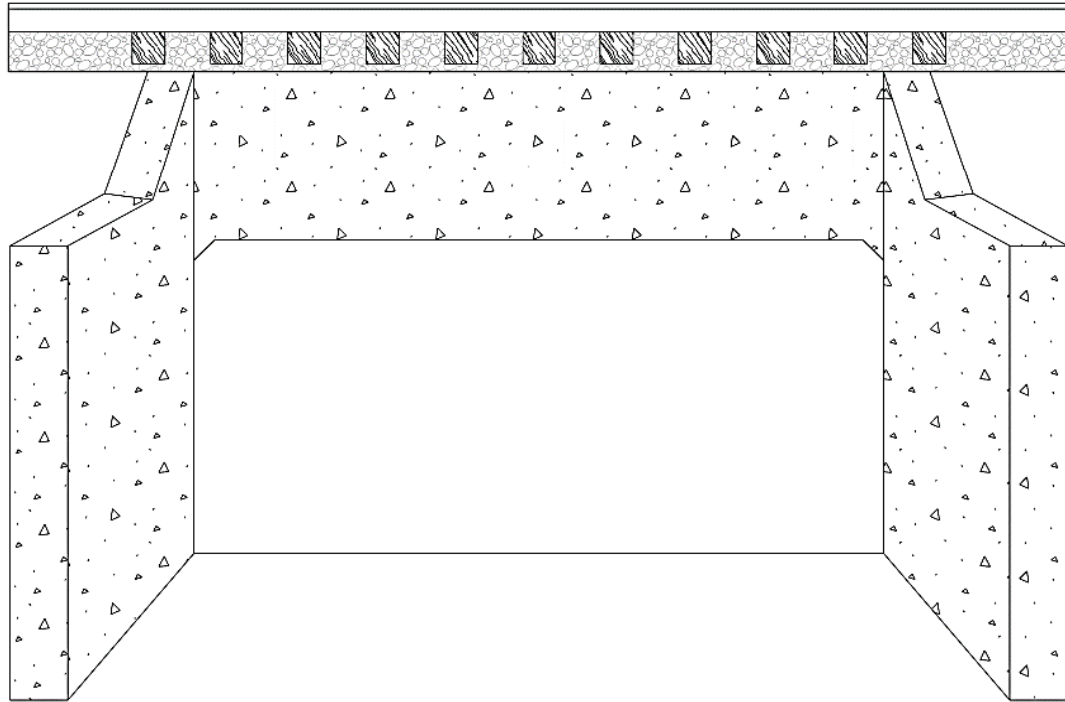
CONDITION RATINGS	PRIORITY
1. Failed ( may require bridge out of service )	A. Immediately
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.	B. Within 1 year
	C. Within 3 years
3. Satisfactory but with exceptions: Slow order may be required.	D. Within 5 years
4. Worker Safety: items such as ( handrail, footwalk, etc.)	E. Within 10 years
5. Good with minor exceptions	M Monitor, Condition may
6. New Bridge	change & raise priority
7. Not inspected: Reason stated	

TYPE OF CULVERTS:	PIPE - CAST IRON STEEL CONCRETE	ARCH - STONE CONCRETE BRICK	BOX - STONE <div style="background-color: yellow; padding: 2px;">CONCRETE</div> RAIL TOP
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Inspector:	Joseph Holste, PE	Date Inspected:	12/11/2019
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MAINLINE/SUBDIVISION: **VCTC**

CULVERT INSPECTION REPORT							
Span:	1	Waterway	DRAINAGE	Type of Culvert	17'x11' CBC	Bridge No.	MP 408.02
DETAILS - ABUT NUMBER: 1 & 2						Length of Culvert:	17'



**Description: 17'x11' Concrete Box Culvert**

**Remarks:**

1. East and west approaches are slightly low
2. Rail was reduced from 132 lb to 90 lb and has comp joints on the west end
3. Rail back to 132 lb east of the structure
4. 16'-1" is span length
5. Gas line crossing 40' East of Bridge
6. Erosion at NE embankment. See photo
7. Scaling at base of abutment #1. See photo
8. Spall NE wingwall. See photo
9. Hairline cracking underside of top slab on Southside. See photo

Inspected By:	<b>Joseph Holste, PE</b>	Date Inspected:	<b>12/11/2019</b>
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## Inspection Photos



**408.02 Looking East**



**408.02 Looking West**



## Inspection Photos



408.02 Looking North



408.02 Looking South

## Inspection Photos



**408.02 Channel Condition - Looking Upstream**



**408.02 Channel Condition - Looking Downstream**



## Inspection Photos



**408.02 Fouled Ballast across Culvert**



**408.02 Erosion at Northeast embankment**



## Inspection Photos



**408.02 Vertical crack center of Abutment (typ.)**



**408.02 Scaling at base of Abutment #1**

## Inspection Photos



**408.02 Hairline cracking underside of top slab, south side**



**408.02 Spall at NE wingwall**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 408.84  
 Location Santa Paula Branch Line  
Saticoy, CA  
 Stream X (Ellsworth Barranca) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 9:10AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast & Open Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 132# Type: Jointed Visual Condition Rating: 3  
 Notes: Both approaches low & slight horizontal misalignment at west approach  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth: 16 in Ballast Condition Rating: 3  
 Notes: Ballast in spans 1,2,4,5 is fouled  
DECK PLANKS Type: Timber Condition Rating: 3 Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel 58' Timber 43' Concrete           
 Type: Truss          Deck Girder X Through           
 Trestle X Girder           
 Num Spans 5 Approx. Span Lengths 14'10",7',58',6',15'2"  
 Notes: Steel Deck Plate Girder with Ballast Deck Timber Trestle Approaches - 1973

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Steel Notes           
 Abutment: 5 Type Steel Notes           
 Wingwalls: 3 Type Timber Notes About 1 wall failing  
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth 6" Scour Evidence yes Moving Water yes  
 Notes Scour eroding backwall of abutment 1 and gabion wall at east side is undermined north of pier 3

## OVERALL RATING

High Priority          Medium Priority          Low Priority X



MAINLINE/SUBDIVISION: VCTC

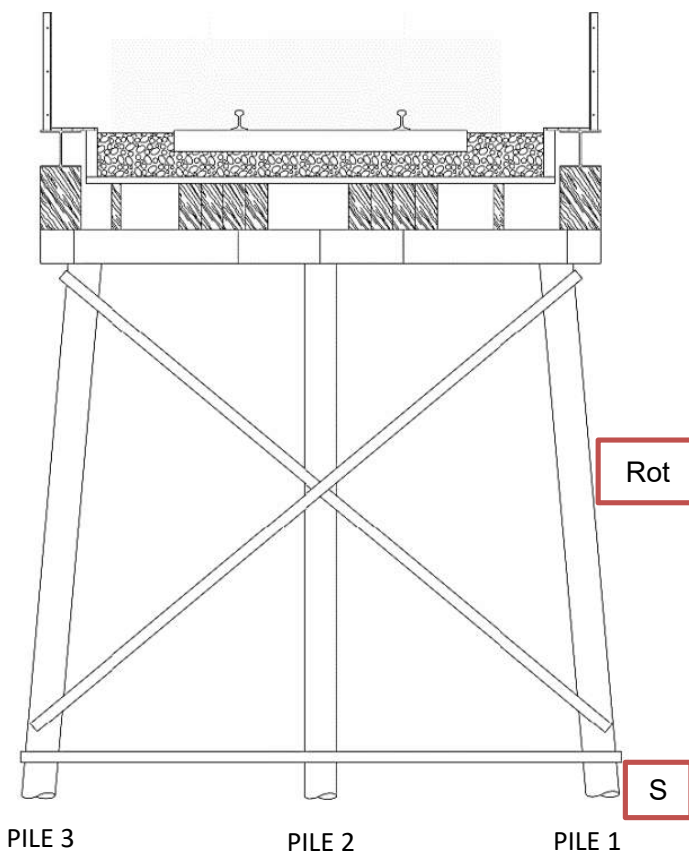
BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	4	Alignment:	Tangent	Vert. Clear:	15' +/-	Bridge No.	408.84a
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Creek	Overall Length:	22'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	3	S01 Stringers		5	B08 Sash Brace		5
E02 Channel	5	S02 Line Bolts		N/A	B09 Long Brace		N/A
E03 Approach	3	S03 Bearing @ Cap		5	B10 Cap Long Brace		N/A
					B11 Shims		N/A
<b>DECK</b>		<b>BENTS</b>				<b>MISC. OTHER</b>	
D01 Ties (OD only)		B01 West Backwall		3	M01		
D02 Ties Spacers	N/A	B02 East Backwall		N/A	M02		
D03 Rail	3	B03 Steel Caps		5	M03		
D04 Ballast Floor	3	B04 Steel Piles		5	M04		
D05 Ballast Retainer	5	B05 Framed Bents		N/A	Overall Rating:		4
D06 Footwalk	4	B06 Posts		N/A			
D07 Handrail	4	B07 Cross Braces		5			
<b>COMMENTS</b>							
Reference	Remark						
Handrail	North side bottom handrail cable broken - see photo. Cables loose over entire bridge						
Walkway	Appears to have had equipment run over grating and is causing tripping hazard						
Other	There is a bee hive at Abutment 1.						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
A	Remove vegetation under all spans						
B01, E01, A	Repair backwall and scour before next rainy season						
D04, M	Ballast floor needs to be monitored for deterioration - Replace as necessary						
E03, B	Raise approaches on both ends						
D06, A	Replace walkway						
D07, A	Repair handrail cable						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change &			
6. New Bridge				- raise priority			
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:		12/11/2019



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STEEL BENT

Span: 1	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	408.84a
DETAILS - ABUT NUMBER: 1			Span Length:	14' 10"



**Description:** Looking West - (8) Stringers 8"x1'5", (2) 3.75"x16.5" Exterior Stringers, Steel Cap with H14x89 Piles

### Remarks:

1. Rot - Backwall is rotted out, leaning, and failing, material loss at bottom - see photo
2. S - Scour on North side of abutment - see photo
3. Erosion present at Northwest embankment.

Inspected By:

Joseph Holste, PE

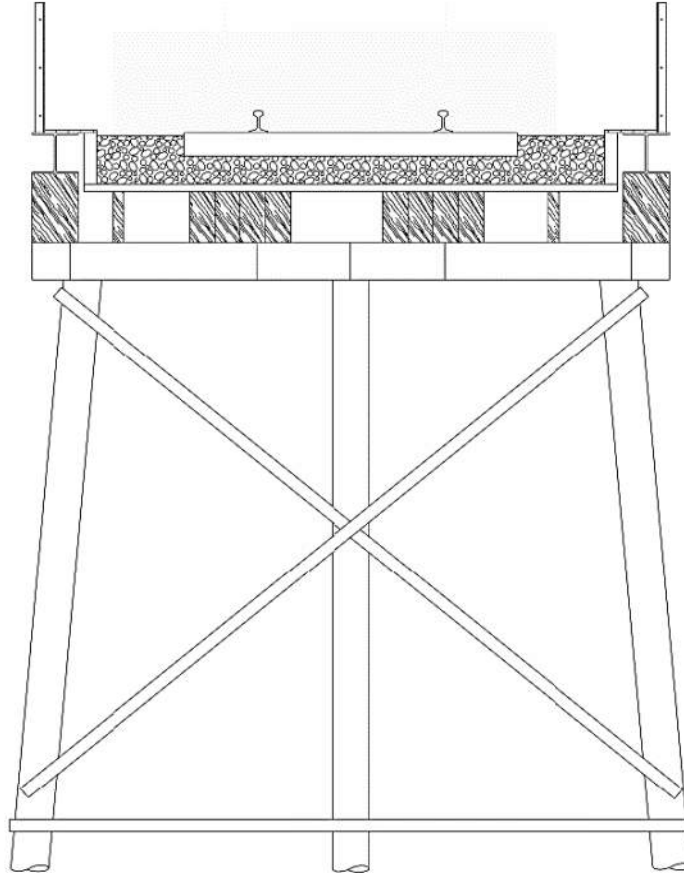
Date Inspected:

12/11/2019

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STEEL BENT

Span: 2	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	408.84a
DETAILS - BENT NUMBER: 2			Span Length:	7'-0"



**Description:** Looking East - (8) Stringers 8"x1'5", (2) 3.75"x16.5" Exterior Stringers, Steel Cap with H14x89 Piles

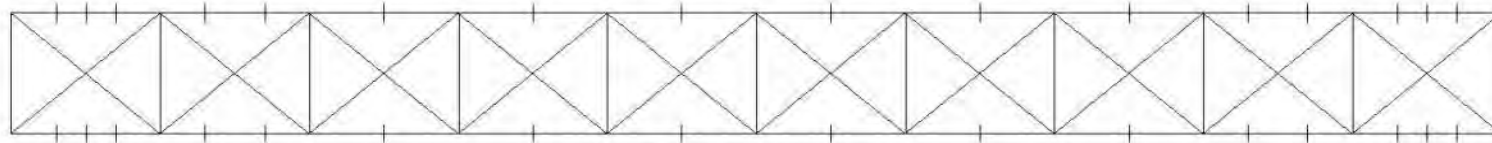
### Remarks:

1. Short retaining gabion wall 3' high at channel edge
2. Top of built up bent slightly rotated - see photo

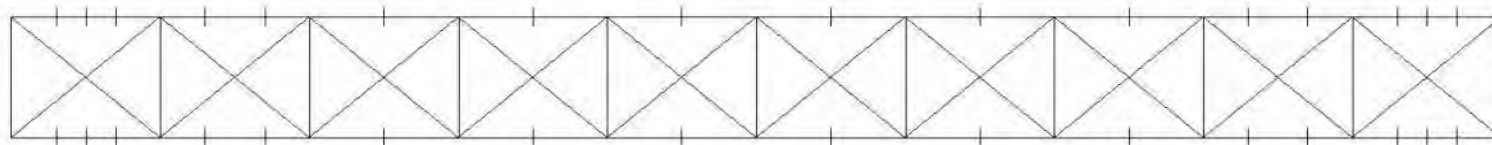
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE							
Spans:	1	Alignment:	Tangent	Vert. Clear:	18' +/-	Bridge No.	408.84b
No. of Tks:	1	Deck Type:	Open Deck	Br. Over:	CREEK	Overall Length:	60'
<b>ENVIRONMENT</b>		<b>GIRDERS</b>					
E01 Scour	3	S01 Girder	5	A06 Bent		5	
E02 Channel	3	S02 Top Lateral Braces	5	A07			
E03 Approach	N/A	S03 Bottom Lateral Braces	5	A08			
<b>DECK</b>		S04 Cross Braces		5	<b>MISC. OTHER</b>		
D01 Ties (OD only)	5	S05 Bearings	5	M01			
D02 Ties Spacers	5	<b>ABUTMENTS &amp; PIERS</b>			M02		
D03 Rail	5	A01 East Abutment	N/A	M03			
D04 Footwalk	4	A02 East Wingwalls	N/A	M04			
D05 Handrail	4	A03 West Abutment	N/A	Overall Rating:		5	
D06 Floor Beams	5	A04 West Wingwalls	N/A				
D07 Ballast Curb	N/A	A05 Pier Cap	5				
<b>COMMENTS</b>							
Reference	Remark						
Girder	Paint failure and surface rust.						
Channel	Dense vegetation under bridge.						
Girder	Joints closed at top of girder.						
Girder	No gap between spans. The timber stringers are bearing up against the ends of the deck plate girder.						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
D05, A	Repair walkway						
D05, A	Repair handrail						
E02, B	Remove vegation under bridge						
E01, B	Repair undermining at pier 3						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	

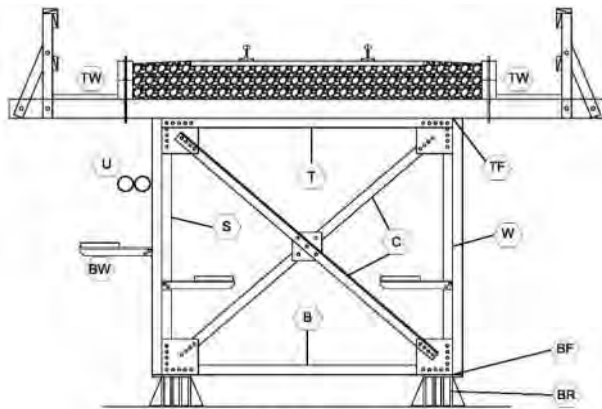
BRIDGE INSPECTION REPORT --- STEEL BENT				
Span: 3	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	408.84b
DETAILS - BENT NUMBER: 3			Span Length:	58'
Description: Looking West/East Respectively - Steel Built-up Cap with H14x89 Piles, Plates Welded to Piles at Base				
Remarks:				
1. Gabion undermined - north side - see photo				
Inspected By:	Joseph Holste, PE		Date Inspected:	12/11/2019



TOP LATERAL BRACING



BOTTOM LATERAL BRACING



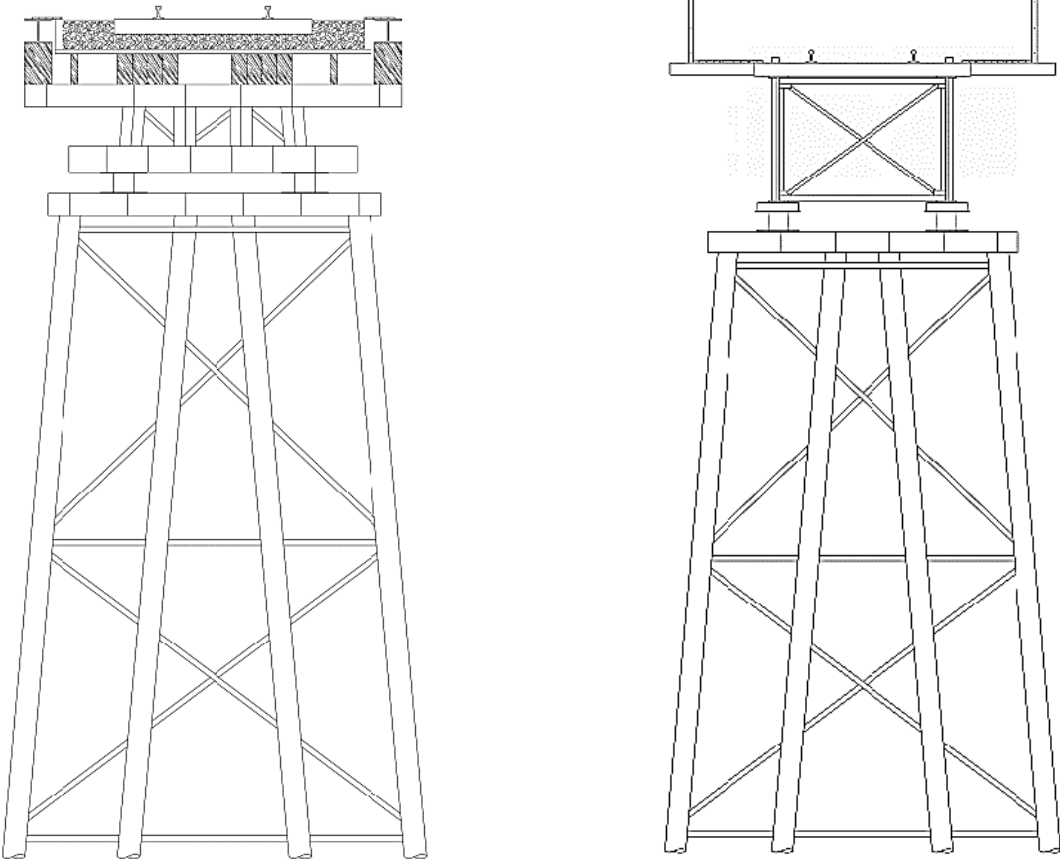
TYPICAL SECTION

- |                                |   |
|--------------------------------|---|
| T TOP LATERAL BRACING, TYP.    | W GIRDER WEB, TYP.                        |
| C CROSS-FRAME, TYP.            | BR BEARINGS                               |
| B BOTTOM LATERAL BRACING, TYP. | U UTILITIES                               |
| S GIRDER STIFFENER, TYP.       | TW TOP WALKWAY, BALLAST CURB, HANDRAIL    |
| TF GIRDER TOP FLANGE, TYP.     | BW BOTTOM WALKWAY, BALLAST CURB, HANDRAIL |
| BF GIRDER BOTTOM FLANGE, TYP.  |   |

DIVISION	Santa Paula Branch	SPAN LENGTH	58'	NUMBER OF TRACKS	1
CROSSING	Ellsworth Barranca	TRACK ALIGNMENT	TANGENT	SPAN No.	3
INSPECTION FINDINGS					
	Paint Failure and surface rust				

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	2	Alignment:	Tangent	Vert. Clear:	15' +/-	Bridge No.	408.84c
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Creek	Overall Length:	22'
ENVIRONMENT		STRINGERS			B08 Sash Brace	5	
E01 Scour	3	S01 Stringers		5	B09 Long Brace	N/A	
E02 Channel	3	S02 Line Bolts		N/A	B10 Cap Long Brace	N/A	
E03 Approach	3	S03 Bearing @ Cap		5	B11 Shims	N/A	
DECK		BENTS			MISC. OTHER		
D01 Ties (OD only)		B01 West Backwall		N/A	M01		
D02 Ties Spacers	N/A	B02 East Backwall		3	M02		
D03 Rail	3	B03 Steel Caps		5	M03		
D04 Ballast Floor	3	B04 Steel Piles		5	M04		
D05 Ballast Retainer	5	B05 Framed Bents		N/A	Overall Rating:	4	
D06 Footwalk	4	B06 Posts		N/A			
D07 Handrail	4	B07 Cross Braces		5			
COMMENTS							
Reference	Remark						
Handrail	Left side bottom handrail cable broken - see photo. Cables loose over entire bridge						
Walkway	Appears to have had equipment run over grating and is causing tripping hazard						
MAINTENANCE RECOMMENDATIONS							
Priority	Description						
E02, A	Remove vegetation under all spans						
B02, E01, A	Repair backwall and scour before next rainy season						
D04, M	Ballast floor needs to be monitored for deterioration - Replace as necessary						
E03, B	Raise approaches on both ends						
D06, A	Replace walkway						
D07, A	Repair handrail cable						
CONDITION RATING					PRIORITY		
1. Failed ( may require bridge out of service )					A. Immediately		
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.					B. Within 1 year		
					C. Within 3 years		
3. Satisfactory but with exceptions: Slow order may be required.					D. Within 5 years		
4. Worker Safety: items such as ( handrail, footwalk, etc.)					E. Within 10 years		
5. Good with minor exceptions					M. Monitor, Condition may change & raise priority		
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:	12/11/2019	



BRIDGE INSPECTION REPORT --- STEEL BENT				
Span: 4	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	408.84c
DETAILS - BENT NUMBER: 4			Span Length:	6' 0"
				
Description: Looking West/East Respectively - Steel Built-up Cap with H14x89 Piles, Plates Welded to Piles at Base				
Remarks:				
1. Top of built-up bent is slightly rotated - see photo				
Inspected By:	Joseph Holste, PE		Date Inspected:	12/11/2019



[illegible]

BRIDGE INSPECTION REPORT --- STEEL ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>Varies</b>	Bridge No.	<b>408.84c</b>
DETAILS - ABUT NUMBER: <b>6</b>		Span Length:	
Description: Looking East - Steel Cap with H14x89 Piles			
Remarks:			
1. Abutment timbers rotten - see photo			
2. Undermining Southeast Backwall - see photo			
3. Erosion at the Southeast slope behind the wingwall - see photo			
Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019

## Inspection Photos



**408.84 Looking East**



**408.84 Looking West**



## Inspection Photos



**408.84 Looking North**



**408.84 Looking South**



## Inspection Photos



**408.84 Channel Condition - Looking Upstream**



**408.84 Channel Condition - Looking Downstream**



## Inspection Photos



**408.84 Rotten/failing backwall at Abutment 1**



**408.84 Abutment 1 backwall leaning**



## Inspection Photos



**408.84 Loose/broken handrail cable – Span 1 north side**



**408.84 Abutment 1 Backwall rotten**



## Inspection Photos



**408.84 Scour at the base on Abutment 1**



**408.84 Typical inside girder view**

## Inspection Photos



**408.84 Gabion undermined north side Pier 3**



**408.84 Pier 2 & 4 built up section rotated**



## Inspection Photos



**408.84 Abutment 6 backwall rotten**



**408.84 Abutment 6 Southeast Backwall undermining**



## Inspection Photos



**408.84 Erosion at Southeast slope behind wingwall**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 409.74  
 Location Santa Paula Branch Line  
Saticoy, CA  
 Stream X (Drainage Channel) Overpass \_\_\_\_\_ Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 10:10 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 132 # Type: Jointed Visual Condition Rating: 5  
 Notes: Low approaches east and west  
TIES Type: Timber Tie Condition Rating: 5  
 Notes: \_\_\_\_\_  
BALLAST Depth: 14 in Ballast Condition Rating: 3  
 Notes: Fouled ballast  
DECK PLANKS Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 16' Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ X Girder \_\_\_\_\_  
 Num Spans 1 Approx. Span Lengths 16'  
 Notes: Ballast Deck Trestle - Built 1963

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Abutment: 5 Type Concrete Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 1" Scour Evidence \_\_\_\_\_ Moving Water yes  
 Notes Concrete v-ditch

## OVERALL RATING

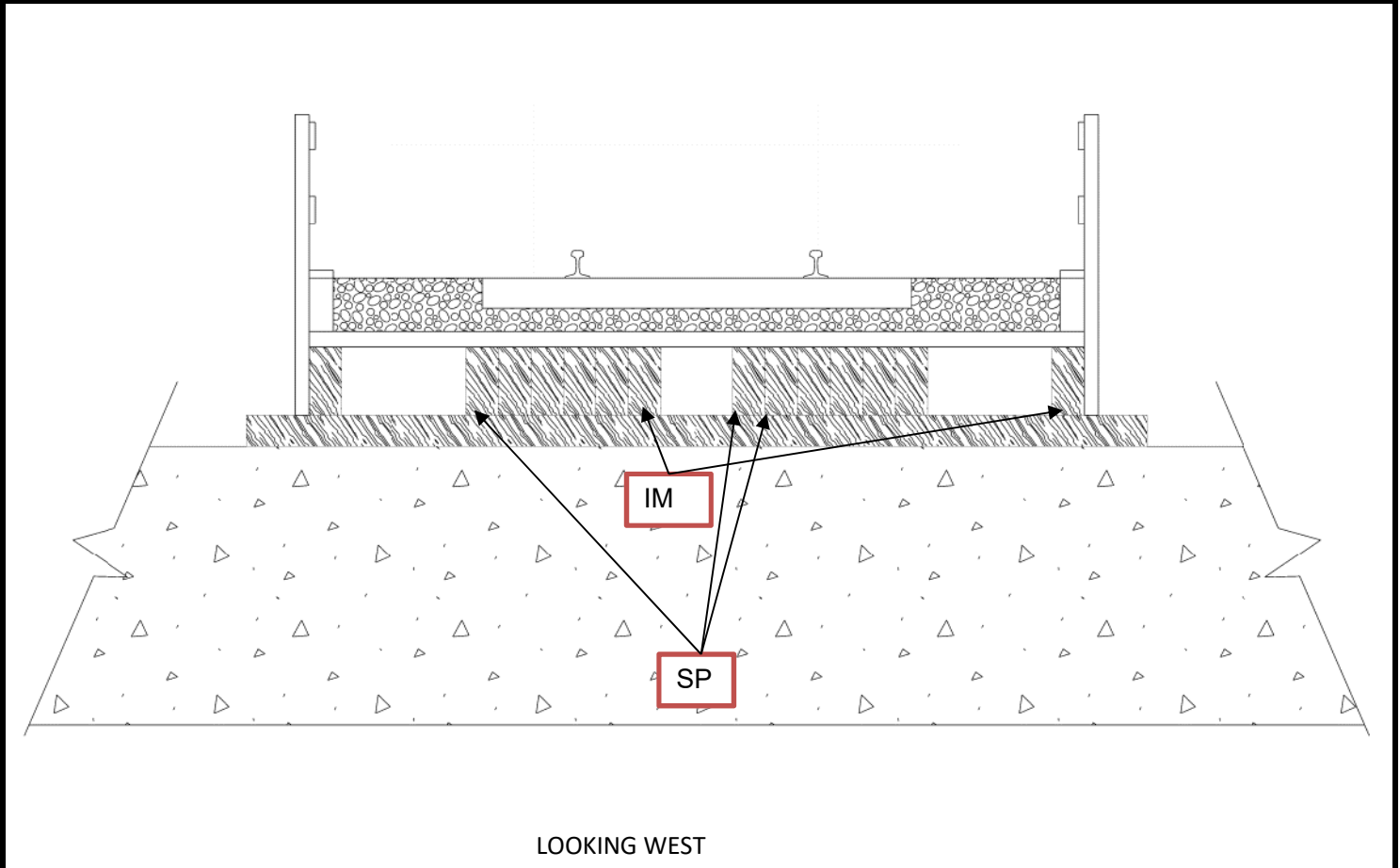
High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority X

[illegible]



MAINLINE/SUBDIVISION: VCTC

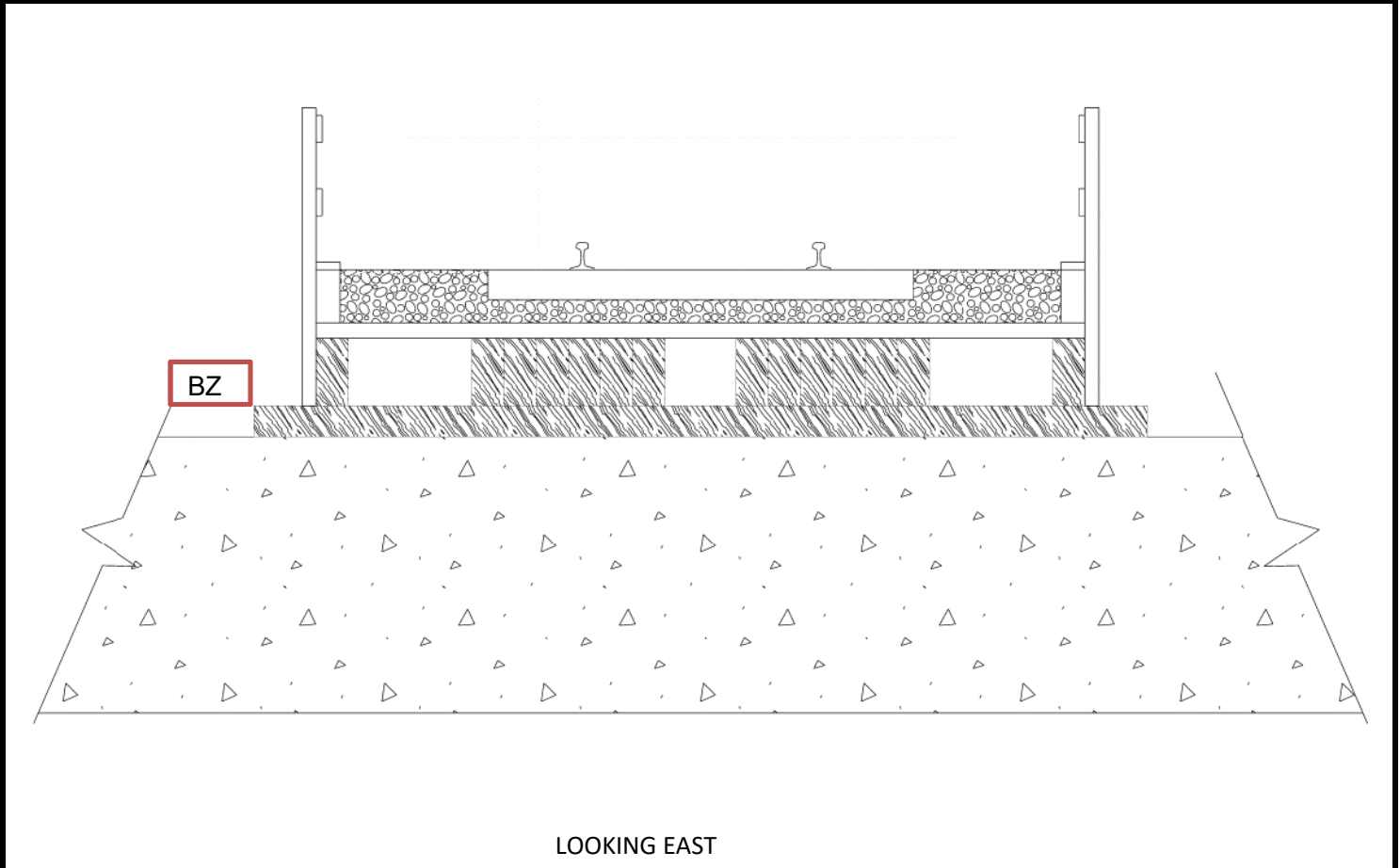
BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span: 1	Alignment: Tangent	Vert. Clear: 5'	Bridge No.	409.74
DETAILS - ABUT NUMBER: 1			Span Length:	16'



Description: Looking West - (14) Stringers - 8"x17.5", Concrete Abutment			
Remarks:			
1. SP- Stringers 6 , 7, and 13 split - see photo			
2. IM- Impact damage on stringer 1 and 8 - see photo			
3. Wingwall leaning on south side, erosion behind wingwall - see photo			
Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>Tangent</b>	Vert. Clear: <b>5'</b>	Bridge No. <b>409.74</b>	
DETAILS - ABUT NUMBER: <b>2</b>		Span Length: <b>16'</b>	



<b>Description: Looking East - (14) Stringers - 8"x17.5", Concrete Abutment</b>			
Remarks:			
1. BZ - Bees have made hive under bridge behind abutment			
2. Wingwall leaning on north and south sides - see photo			
Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019

## Inspection Photos



**409.74 Looking East**



**409.74 Looking West**



## Inspection Photos



409.74 Looking North



409.74 Looking South

## Inspection Photos



**409.74 Stringer 1 impact damage**



**409.74 Stringer 6 split**



## Inspection Photos



**409.74 Stringer 7 split on vertical face**



**409.74 Stringer 8 impact damage**



## Inspection Photos



**409.74 Stringer 13 split on vertical face**



**409.74 Backwall on South side leaning**



INSPECTION TYPE:	Annual
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## INSPECTION INFORMATION

Date	<u>11-Dec-19</u>	Time	<u>10:20 AM</u>
Inspector Name	<u>Joseph Holste, PE</u>		
Telephone Number	<u>303-501-1215</u>		
Company	<u>Wilson &amp; Company</u>		

## SUPERSTRUCTURE

## SUBSTRUCTURE

## STREAM CHANNEL

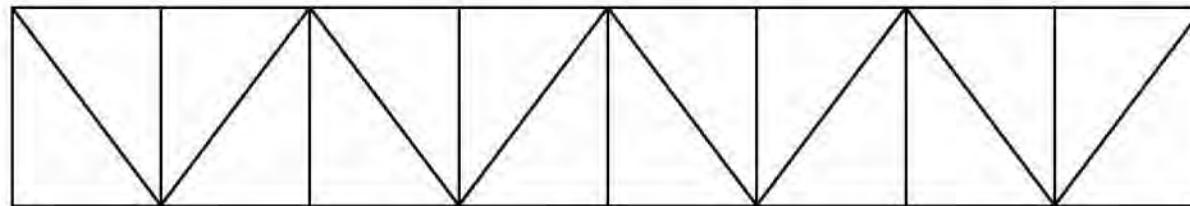
## OVERALL RATING

High Priority	Medium Priority	Low Priority	X
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BRIDGE INSPECTION REPORT --- STEEL STRUCTURE							
Spans:	1	Alignment:	Tangent	Vert. Clear:	5'-10"	Bridge No.	410.40
No. of Tks:	1	Deck Type:	Open Deck	Br. Over:	River	Overall Length:	40'
ENVIRONMENT		GIRDERS		A06 Pier Shaft	N/A		
E01 Scour	5	S01 Girder	5	A07			
E02 Channel	3	S02 Top Lateral Braces	5	A08			
E03 Approach	3	S03 Bottom Lateral Braces	5	A09			
DECK		S04 Cross Braces	5	MISC. OTHER			
D01 Ties (OD only)	5	S05 Bearings	5	M01			
D02 Ties Spacers	5	ABUTMENTS & PIERS		M02			
D03 Rail	5	A01 East Abutment	5	M03			
D04 Footwalk	5	A02 East Wingwalls	5	M04			
D05 Handrail	3	A03 West Abutment	5	Overall Rating:	4		
D06 Floor Beams	5	A04 West Wingwalls	3				
D07 Ballast Curb	N/A	A05 Pier Cap	5				
COMMENTS							
Reference	Remark						
Handrail	Handrail cable loose both sides - see photo						
Structure	J-bolts have not been replaced, need more, need to be tightened -see photo						
Utility	3" galvanized utility crossing, North side - unknown						
Wingwall	NW and SW ballast retainer undermined - see photo						
MAINTENANCE RECOMMENDATIONS							
Priority	Description						
E02, B	Remove vegetation from under and around bridge structure						
E03, B	Raise approaches						
D05, A	Repair handrail						
D01, B - J-Bolts	J-Bolts need to be installed to prevent tie movement						
A04, B	Repair west wingwall to prevent further ballast loss						
CONDITION RATING					PRIORITY		
1. Failed ( may require bridge out of service )					A. Immediately		
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.					B. Within 1 year		
					C. Within 3 years		
3. Satisfactory but with exceptions: Slow order may be required.					D. Within 5 years		
4. Worker Safety: items such as ( handrail, footwalk, etc.)					E. Within 10 years		
5. Good with minor exceptions					M. Monitor, Condition may change & raise priority		
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:	12/11/2019	



BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE ABUTMENT					
Span:	1	Alignment:	TANGENT	Vert. Clear:	5'-10"
				Bridge No.	410.40
DETAILS - ABUTMENT NUMBER: 1			Span Length:		39'
<b>Description: Looking West - Steel Deck Plate Girders, Concrete Abutment</b>					
<b>Remarks:</b>					
1. SP - Minor spalling on backwall - see photo					
2. UM - Undermining and scour behind NW wingwall upstream - see photo					
3. FL - Open flange holes near bearing - see photo					
4. DEB - Debris around bearings - see photo					
5. Hole in ballast due to undermining of ballast retainer - see photo					
6. Appears to have had equipment run over grating and is causing tripping hazard - see photo					
Inspected By:		Joseph Holste, PE		Date Inspected:	12/11/2019



LEFT SIDE

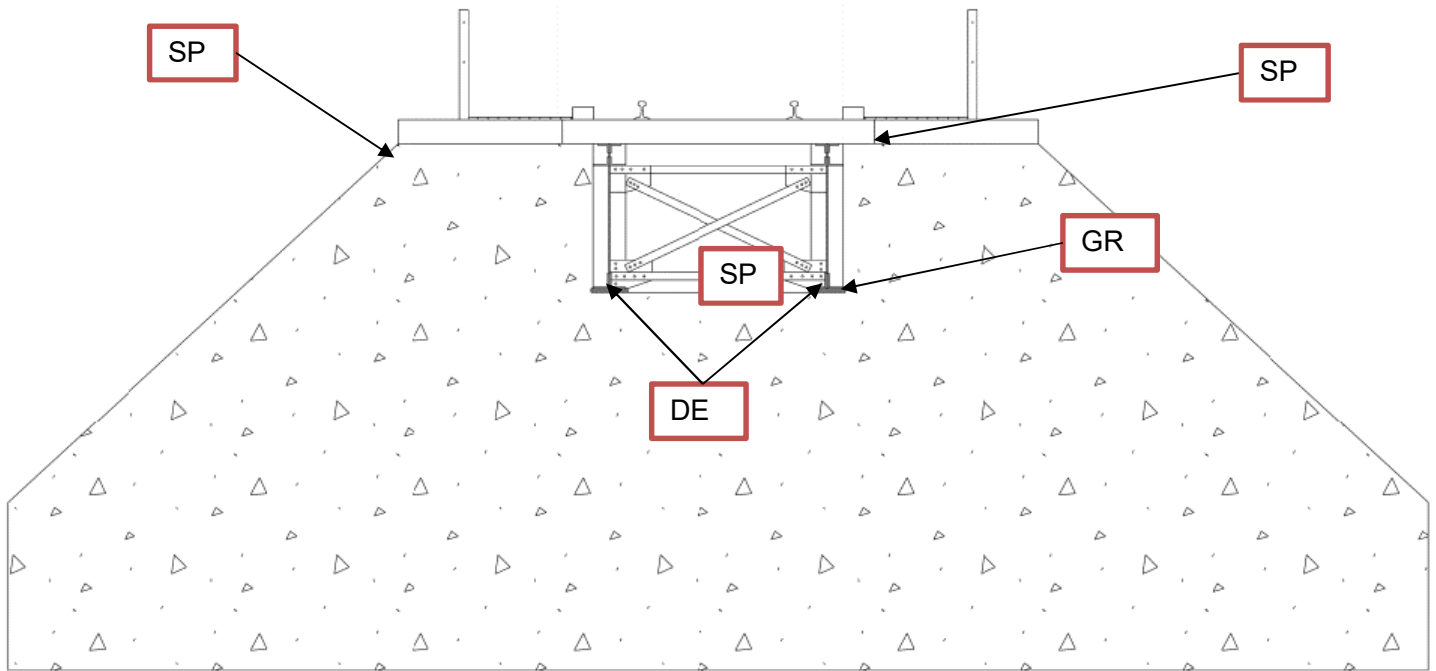
RIGHT SIDE

BOTTOM LATERAL BRACING

DIVISION	Santa Paula	SPAN LENGTH	39'	NUMBER OF TRACKS	1
CROSSING		TRACK ALIGNMENT	TANGENT	SPAN No.	1
INSPECTION FINDINGS					
	Deck girder is in fair condition with paint failure and surface rust - see photo				

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>5'-10"</b>	Bridge No.	<b>410.40</b>
DETAILS - ABUTMENT NUMBER: <b>2</b>		Span Length:	



**Description: Looking East - Steel Deck Plate Girders, Concrete Abutment**

**Remarks:**

1. SP - Minor spall on backwall - see photo
2. SP - Minor spall on wingwall - see photos
3. GR - Broken grout under bearing plates, sections are missing - see photo
4. DEB - Debris around bearings - see photo
5. Silt accumulation, bottom of flange girder

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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## Inspection Photos



**410.40 Looking East**



**410.40 Looking West**



## Inspection Photos



**410.40 Looking North**



**410.40 Looking South**



## Inspection Photos



**410.40 Channel Condition - Looking Upstream**



**410.40 Channel Condition - Looking Downstream**



## Inspection Photos



**410.40 Loose handrail cables (Typ.)**



**410.40 Grating causing tripping hazard**



## Inspection Photos



**410.40 NW ballast retainer undermining**



**410.40 NW Hole in Ballast due to Undermining**



## Inspection Photos



**410.40 Undermining and Scour behind NW Wingwall Upstream**



**410.40 Open Flange Holes near Bearing, Abutment 1**



## Inspection Photos



**410.40 Backwall spall – Abutment 1**



**410.40 Debris around bearings. Abutment 1 & 2**

## Inspection Photos



**410.40 Deck girder is in fair condition with paint failure and surface rust**



**410.40 J-bolt current conditions**



## Inspection Photos



**410.40 Broken grout under bearing plates, Abutment 2**



**410.40 Backwall spall – Abutment 2**

## Inspection Photos



**410.40 NE Wingwall spall – Abutment 2**



**410.40 SE Wingwall Spall – Abutment 2**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 411.97  
 Location Santa Paula Branch Line  
Saticoy, CA  
 Stream X (Haines Barranca) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 11:00 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 80 # Type: Jointed Visual Condition Rating: 3  
 Notes: Low approaches east and west - 1" plus. NW rail section loss - see photo.  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth: 12 in Ballast Condition Rating: 5  
 Notes:           
DECK PLANKS Type: N/A Condition Rating:          Notes:           
OTHER Type: Concrete Condition Rating: 5

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber          Concrete 30'  
 Type: Truss          Deck Girder          Through           
 Trestle          Girder           
 Num Spans 1 Approx. Span Lengths 30'  
 Notes: Concrete Double Box Girder - Built 1965

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent:          Type          Notes           
 Abutment: 5 Type Concrete cap Notes Steel piles  
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes Minor vegetation

## OVERALL RATING

High Priority          Medium Priority          Low Priority X



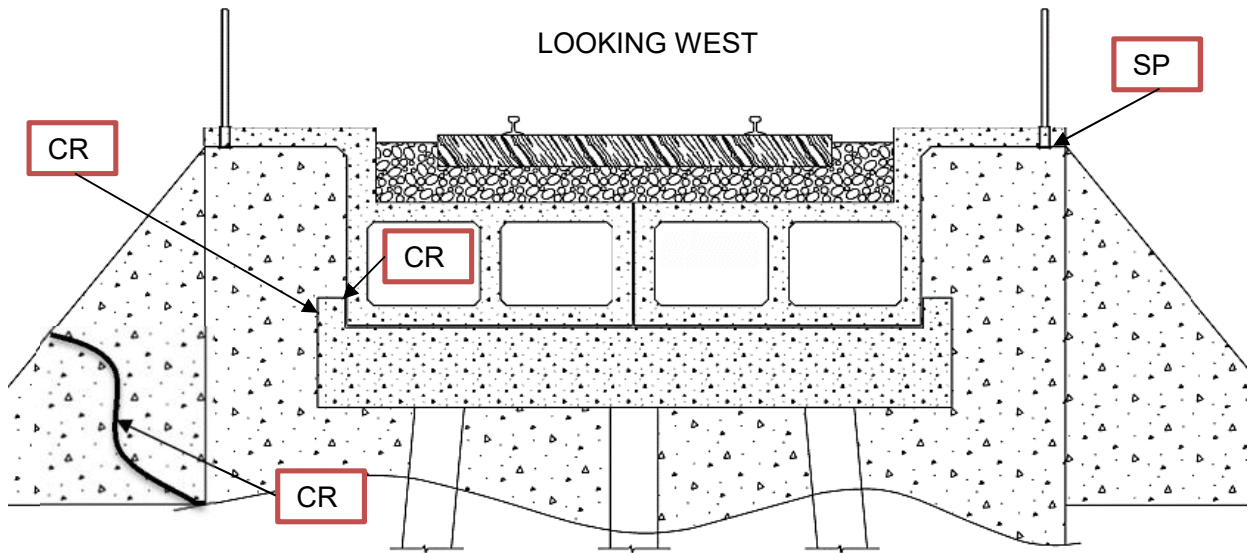
<b>BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE</b>							
<b>Spans:</b>	<b>1</b>	<b>Alignment:</b>	<b>Tangent</b>	<b>Vert. Clear:</b>	<b>6'-3"</b>	<b>Bridge No.</b>	<b>411.97</b>
<b>No. of Tks:</b>	<b>1</b>	<b>Deck Type:</b>	<b>Ballast</b>	<b>Br. Over:</b>	<b>Stream</b>	<b>Overall Length:</b>	<b>30'-0"</b>
<b>ENVIRONMENT</b>		<b>GIRDERS</b>			A06 Pier Shaft		
E01 Scour	5	S01 Girder		5	A07 Piles	N/A	
E02 Channel	5	S02 Bearings		N/A	A08		
E03 Approach	3	<b>ABUTMENTS &amp; PIERS</b>			A09		
<b>DECK</b>		A01 East Abutment		5	<b>MISC. OTHER</b>		
D01 Rail	3	A02 East Wingwalls		5	M01		
D02 Footwalk	5	A03 West Abutment		5	M02		
D03 Handrail	4	A04 West Wingwalls		5	M03		
D04		A05 Bent Cap		5	M04		
D05					<b>Overall Rating:                  5</b>		
<b>COMMENTS</b>							
<b>Reference</b>	<b>Remark</b>						
Handrail	Handrail cables loose both sides, broken on north side - see photo						
Rail	NW rail section loss - see photo						
Wingwall	SW wingwall cracking -see photo						
<b>MAINTENANCE RECOMMENDATIONS</b>							
<b>Priority</b>	<b>Description</b>						
D01, B	Replace rail to meet tonnage use						
D03, A	Repair handrail						
E03, B	Raise approaches						
<b>CONDITION RATING</b>					<b>PRIORITY</b>		
1. Failed ( may require bridge out of service )					A. Immediately		
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.					B. Within 1 year		
					C. Within 3 years		
3. Satisfactory but with exceptions: Slow order may be required.					D. Within 5 years		
4. Worker Safety: items such as ( handrail, footwalk, etc.)					E. Within 10 years		
5. Good with minor exceptions					M. Monitor, Condition may change & - raise priority		
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:	12/11/2019	



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT

Span: 1	Alignment: TANGENT	Vert. Clear: 6'-3"	Bridge No.	411.97
DETAILS -ABUTMENT NUMBER: 1			Span Length:	30'-0"



**Description:** 80" x 30" Box Girders, Concrete Caps, H14x89 piles

### Remarks:

1. CR - SW wing cracking - see photo
2. SP - Spall NW Corner of Walkway Corner
3. CR - South Keeper cracking - see photo
4. CR - Horizontal crack on girder 2 outside where flange meets web at abutment 1, approximately 14" long - see photo
5. 2" gap between abutment and wingwall - see photo

Inspected By:

Joseph Holste, PE

Date Inspected:

12/11/2019

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
	Alignment: TANGENT	Vert. Clear: 6'-3"	Bridge No. 411.97
DETAILS - BENT NUMBER: 2		Span Length:	
<p style="text-align: center;">LOOKING EAST</p>			
Description: 80" x 30" Box Girders, Concrete Caps, H14x89 piles			
1. SP - SE Backwall Spall - see photo			
2. Undermining SE ballast retainer - see photo			
Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019



## Inspection Photos



**411.97 Looking East**



**411.97 Looking West**



## Inspection Photos



**411.97 Looking North**



**411.97 Looking South**



## Inspection Photos



**411.97 Channel Conditions - Looking Upstream**



**411.97 Channel Conditions - Looking Downstream**



## Inspection Photos



**411.97 NW rail section loss**



**411.97 Handrail loose (typ.)**



## Inspection Photos



**411.97 Spall on NW Corner of Walkway**



**411.97 Abutment 2 undermining SE Ballast retainer**

## Inspection Photos



**411.97 Southwest wingwall cracking**



**411.97 Abutment 1 South keeper cracking**



## Inspection Photos



**411.97 2" gap between Abutment 1 and wingwall**



**411.97 Girder 1 cracking at Abutment 1**

## Inspection Photos



**411.97 Southeast Backwall Spall**





INSPECTION TYPE:	Annual
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## INSPECTION INFORMATION

Date	<u>11-Dec-19</u>	Time	<u>11:20 AM</u>
Inspector Name	<u>Joseph Holste, PE</u>		
Telephone Number	<u>303-501-1215</u>		
Company	<u>Wilson &amp; Company</u>		

<b>DECK</b>	Type:	<u>Open</u>	Number of Tks	<u>1</u>	Visual Condition Rating	<u>5</u>
	<b><u>RAIL</u></b>	Weight:	<u>80 #</u>	Type:	<u>Jointed</u>	Visual Condition Rating: <u>3</u>
		Notes:	<u>Low approaches east and west</u>			
	<b><u>TIES</u></b>	Type:	<u>Timber</u>	Tie Condition Rating: <u>3 due to split ties</u>		
		Notes:				
	<b><u>BALLAST</u></b>	Depth:	<u>N/A</u>	Ballast Condition Rating: _____		
		Notes:				
<b><u>DECK PLANKS</u></b>	Type:	<u>N/A</u>	Condition Rating: _____		Notes: _____	
<b><u>OTHER</u></b>	Type:			Condition Rating: _____		

Visual Condition Rating		<u>5</u>	
Type:	Culvert:	Number barrels	<u>          </u>
		Approx Lngth.	<u>          </u>
	Bridge:	Steel	<u>X</u>
		Concrete	<u>          </u>
Type:	Truss	<u>          </u>	
	Trestle	<u>          </u>	
	Num Spans	<u>1</u>	Approx. Span Lengths
			<u>29'</u>
Notes: <u>Thru Plate Girder - Built 1915</u>			

Visual Condition Rating		5			
Bent:		Type		Notes	
Abutment:	5	Type	Concrete	Notes	
Wingwalls:		Type		Notes	
Embank		Type		Notes	
Footing		Type		Notes	
Inaccessible areas:					

Visual Condition Rating 5  
Stream Depth 0 Scour Evidence no Moving Water no  
Notes Minor vegetation

High Priority	Medium Priority	Low Priority	X
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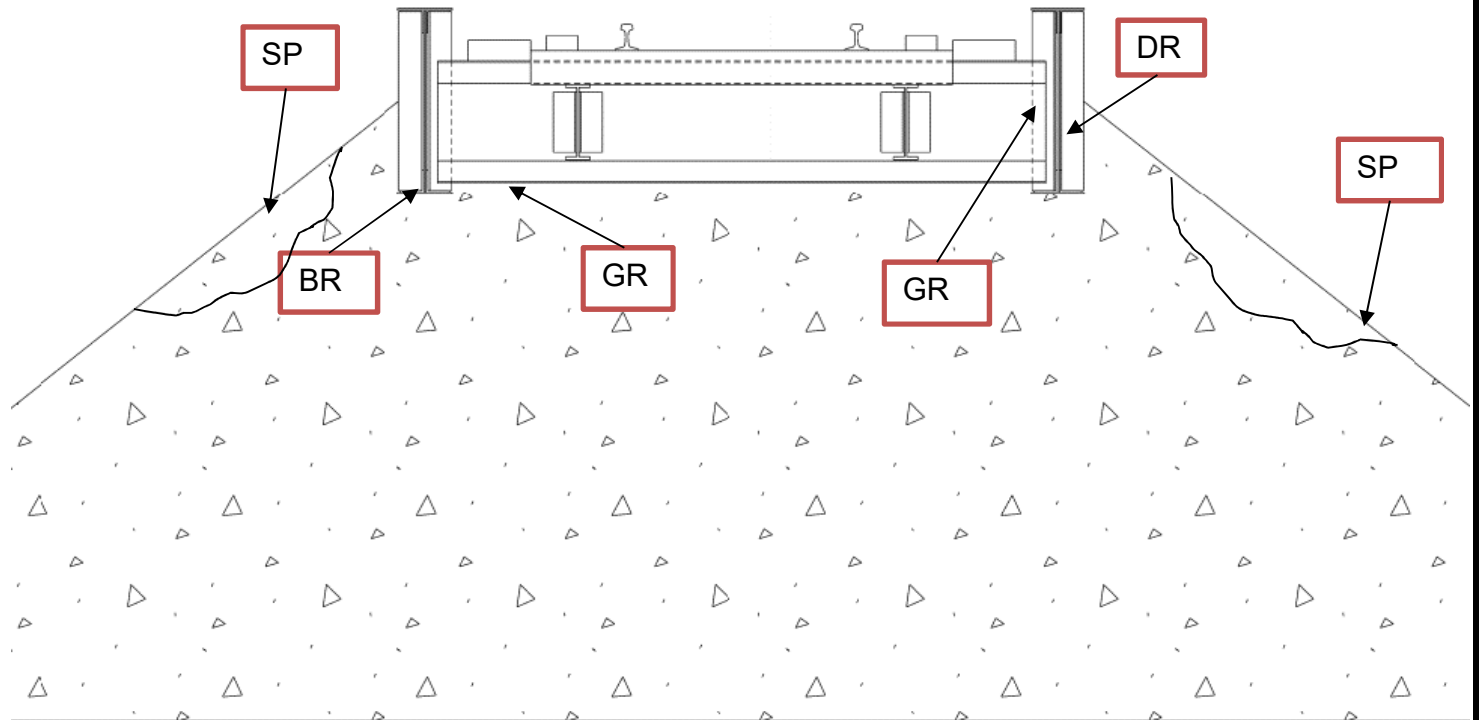
<b>BRIDGE INSPECTION REPORT --- STEEL STRUCTURE</b>							
<b>Spans:</b>	<b>1</b>	<b>Alignment:</b>	<b>Tangent</b>	<b>Vert. Clear:</b>	<b>7'-6"</b>	<b>Bridge No.</b>	<b>412.25</b>
<b>No. of Tks:</b>	<b>1</b>	<b>Deck Type:</b>	<b>Open</b>	<b>Br. Over:</b>	<b>Creek</b>	<b>Overall Length:</b>	<b>30'-0"</b>
<b>ENVIRONMENT</b>		<b>GIRDERS</b>		A06 Pier Shaft	N/A		
E01 Scour	5	S01 Girder	5	A07			
E02 Channel	3	S02 Top Lateral Braces	5	A08			
E03 Approach	3	S03 Bottom Lateral Braces	5	A09			
<b>DECK</b>		S04 Cross Braces	5	<b>MISC. OTHER</b>			
D01 Ties (OD only)	3	S05 Bearings	5	M01			
D02 Ties Spacers	5	<b>ABUTMENTS &amp; PIERS</b>		M02			
D03 Rail	5	A01 East Abutment	5	M03			
D04 Footwalk	N/A	A02 East Wingwalls	5	M04			
D05 Handrail	N/A	A03 West Abutment	5	<b>Overall Rating:</b>	<b>5</b>		
D06 Floor Beams	5	A04 West Wingwalls	5				
D07 Ballast Curb	N/A	A05 Pier Cap	5				
<b>COMMENTS</b>							
Reference	Remark						
Walkway	No handrail or walkway						
Curb	Damage to timber curb at east end - see photo						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E02, A	Remove vegetation from under and around bridge						
S05, B	Clean debris from around bearings both ends						
E03, B	Raise approaches both ends						
D01, B	Replace guard timbers and split ties						
D05, B	Add handrails						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & - raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 7'-6"	Bridge No.	412.25
DETAILS- ABUTMENT NUMBER: 1			Span Length:	30'-0"

LOOKING WEST

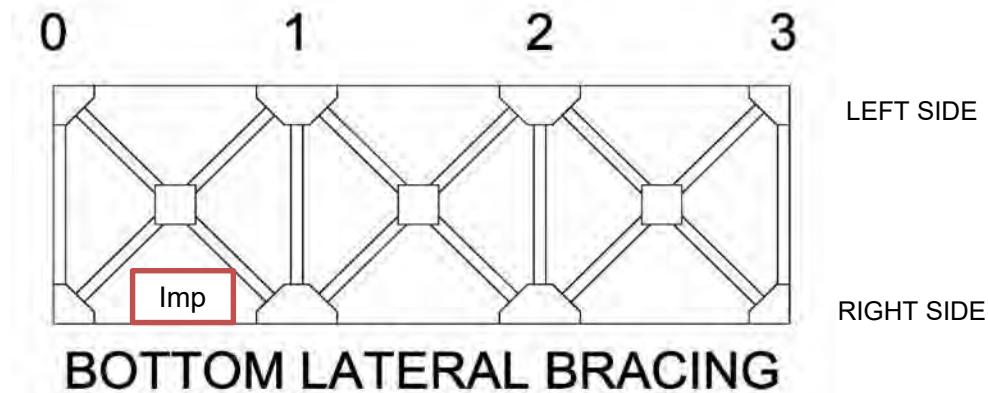


**Description: Thru Plate Girders, Concrete Abutment**

**Remarks:**

1. DR - Abutment needs to be cleared of debris
2. BR - End bearing areas show minor section loss due to rust - see photo
3. GR - Girder 2 holes in web - see photo
4. GR - Girder 2 stiffener damage at midspan - see photo
5. SP - Spall along both wingwalls - see photo
6. Silt accumulation and debris on girder bottom flange

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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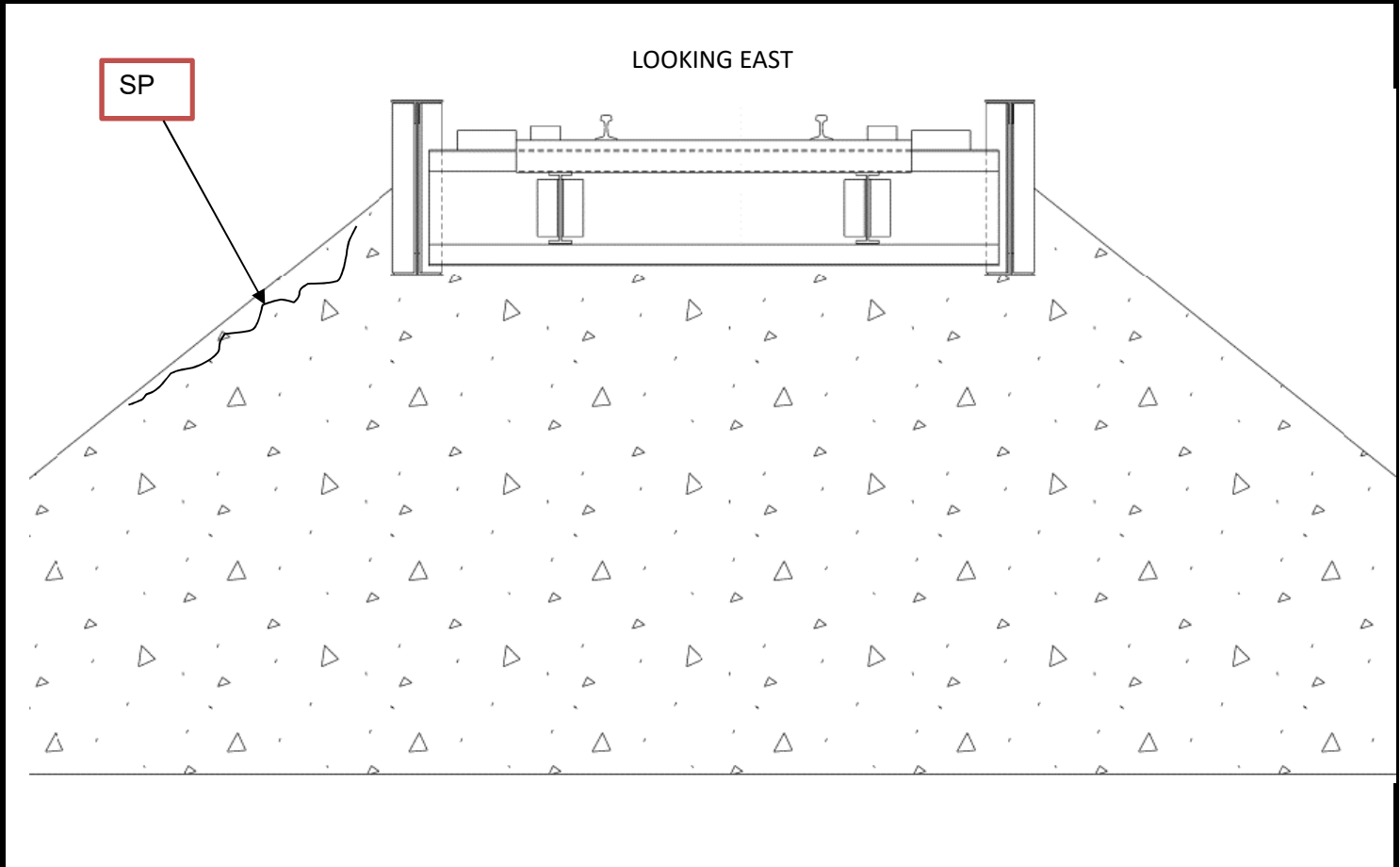


DIVISION	Santa Paula	SPAN LENGTH	29'	NUMBER OF TRACKS	1
CROSSING	Creek	TRACK ALIGNMENT	TANGENT	SPAN No.	1
<b>INSPECTION FINDINGS</b>					
Imp	Bay #1 right side cross bracing show signs of impact and slight deflection - see photo				
	Debris build-up on bottom flange, bearings, and cross bracing				



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>7'-6"</b>	Bridge No.	<b>412.25</b>
DETAILS-ABUTMENT NUMBER: <b>2</b>		Span Length:	



<b>Description: Thru Plate Girders, Concrete Abutment</b>			
<b>Remarks:</b>			
1. Abutment needs to be cleared of debris			
2. End bearing areas show minor section loss due to rust			
3. Pack rust at bearing plates - see photo			
4. SP - Spalling along north wingwall			
Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019

## Inspection Photos



**412.25 Looking East**



**412.25 Looking West**



## Inspection Photos



**412.25 Looking North\***



**412.25 Looking South**

\*Image for 2018, no changes for 2019.



## Inspection Photos



**412.25 Channel Condition - Looking Upstream**



**412.25 Channel Condition - Looking Downstream**



## Inspection Photos



**412.25 Damaged curbs at east end**



**412.25 Split Tie**

## Inspection Photos



**412.25 Minor impact damage near Abutment 1**



**412.25 Minor section loss/pack rust at bearings (typ.)**



## Inspection Photos



**412.25 Pack rust at bearing plates (typ.)**



**412.25 Hole in web and stiffener damage at midspan G2**

## Inspection Photos



**412.25 Spalling on wingwall – see report for locations**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 415.20  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream X (Drainage) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 12:45 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 80 # Type: Jointed Visual Condition Rating: 3  
 Notes: Low approaches east and west  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth: 12 in Ballast Condition Rating: 3  
 Notes: Fouled ballast and holes in ballast - north side  
DECK PLANKS Type: Timber Condition Rating: Unknown Notes: Buried  
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 7  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber 15' Concrete           
 Type: Truss          Deck Girder          Through           
 Trestle          X Girder           
 Num Spans 1 Approx. Span Lengths 13'9"  
 Notes: Ballast Deck Timber Trestle - Built 1950 - Inaccessible

## SUBSTRUCTURE

Visual Condition Rating 7  
 Bent:          Type          Notes           
 Abutment:          Type Concrete Notes           
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas: Unable to inspect due to silting

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes Fully silted in

## OVERALL RATING

High Priority          Medium Priority          Low Priority X

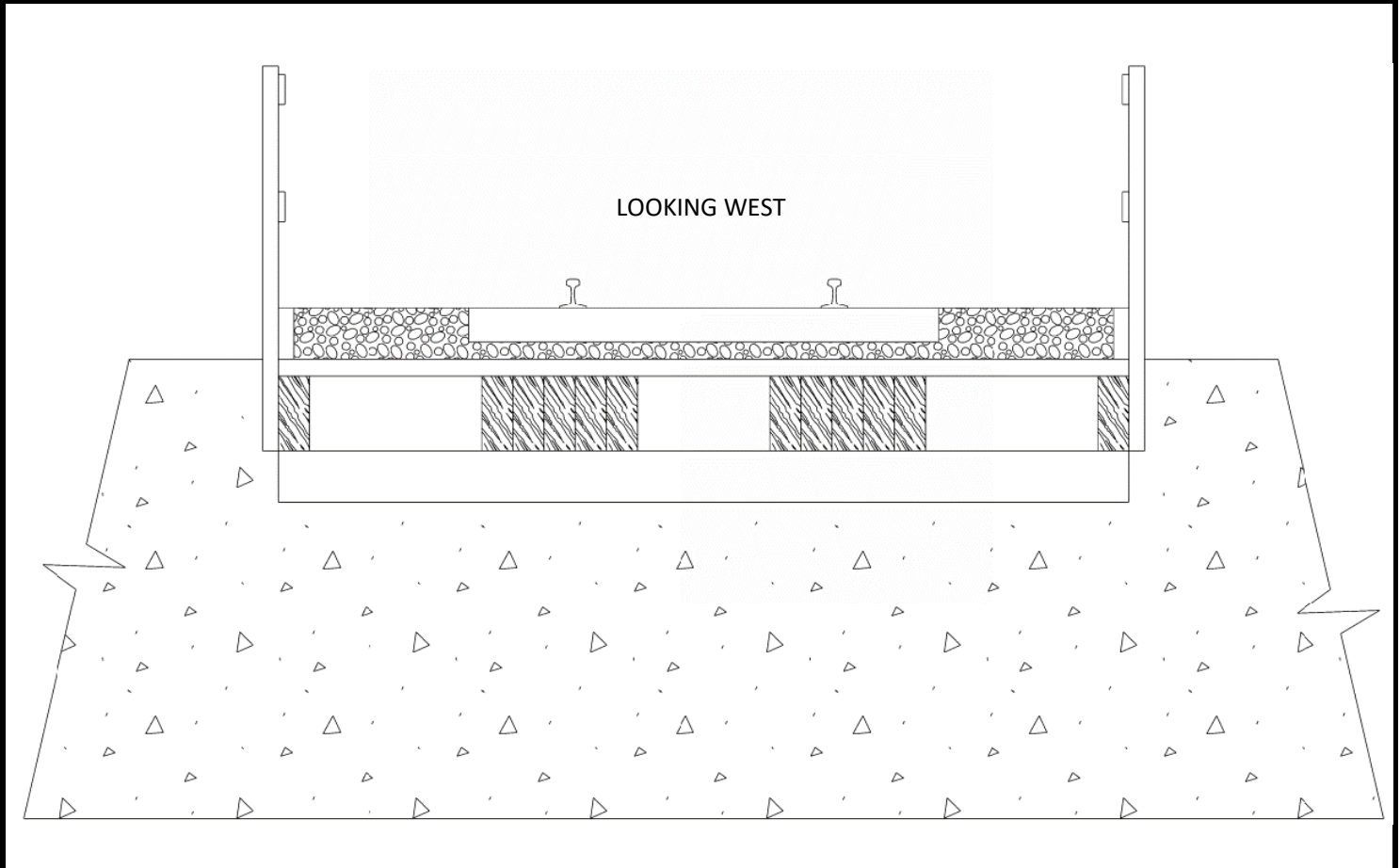
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	1	Alignment:	Tangent	Vert. Clear:	None	Bridge No.	415.20
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Drainage	Overall Length:	15'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	5	S01 Stringers	7	B08 Sash Brace		N/A	
E02 Channel	5	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	7	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	5	B01 West Backwall	7	M01			
D02 Ties Spacers	N/A	B02 East Backwall	7	M02			
D03 Rail	3	B03 Caps	7	M03			
D04 Ballast Floor	7	B04 Piles	7	M04			
D05 Ballast Retainer	3	B05 Framed Bents	N/A	Overall Rating:		4	
D06 Footwalk	5	B06 Posts	N/A				
D07 Handrail	4	B07 Cross Braces	N/A				
<b>COMMENTS</b>							
Reference	Remark						
Handrail	Timber handrail is in poor condition, broken on east side. Missing north and southeast side.						
Structure	Minor charring from fire						
Wingwall	SW & SE wingwalls undermined - see photos						
Ballast	Holes in ballast, west side - see photo						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E03, B	Raise approaches						
D03, C	Replace 80 lb rail as tonnage dictates						
D07, A	Repair handrail						
S01, S03, B01, B02, B03, B04, D04	Excavate to allow inspection or remove structure						
D05, C	Repair wings						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
3. Satisfactory but with exceptions: Slow order may be required.				C. Within 3 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				D. Within 5 years			
5. Good with minor exceptions				E. Within 10 years			
6. New Bridge				M. Monitor, Condition may change & raise priority			
7. Not inspected: Reason stated				-			
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: None	Bridge No.	415.20
DETAILS - ABUT NUMBER: 1			Span Length:	13'9"



**Description: (12) 7"x17.5" Stringers, Concrete Abutment**

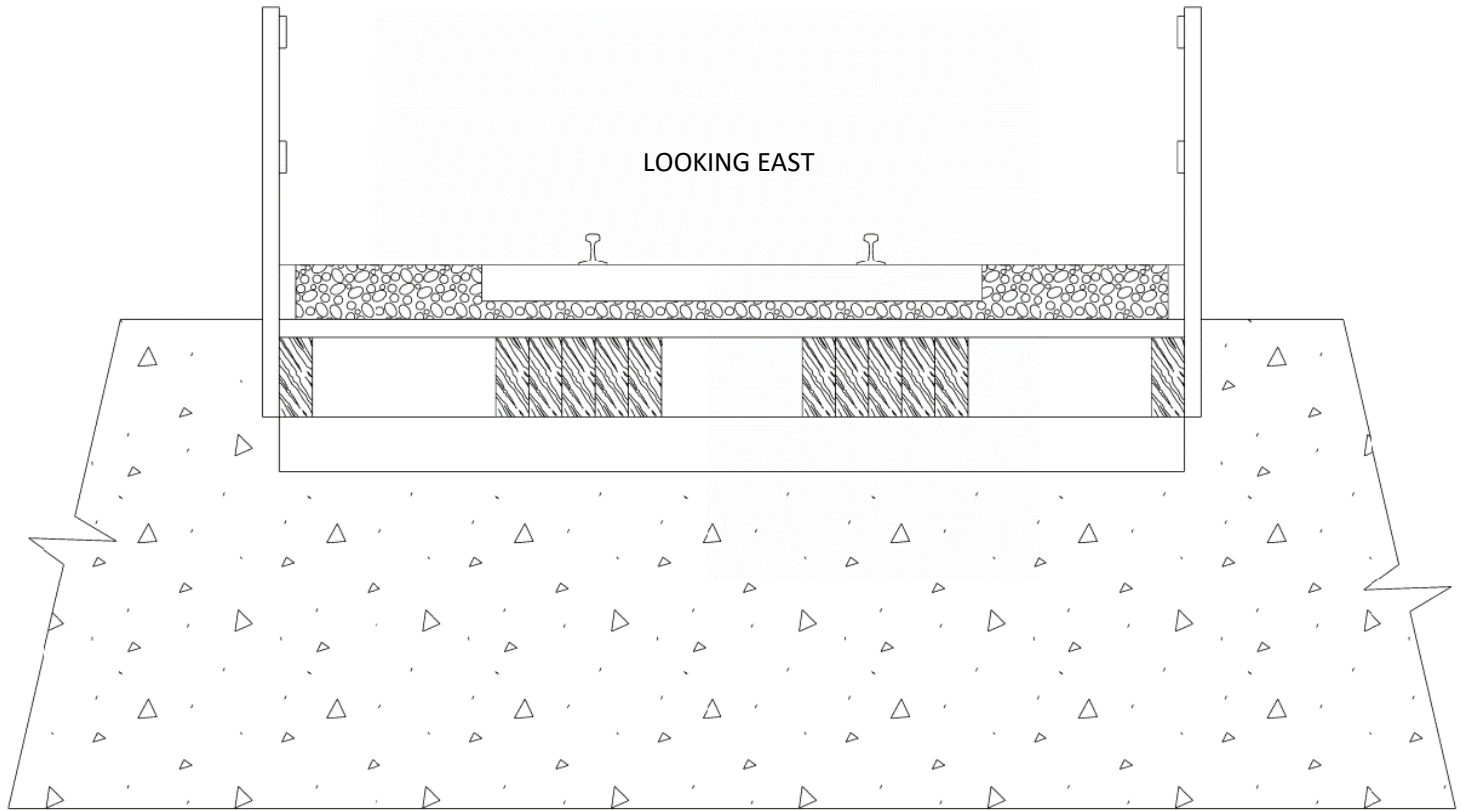
**Remarks:**

1. Bridge is silted in

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>None</b>	Bridge No.	<b>415.20</b>
DETAILS - ABUT NUMBER: <b>2</b>	Span Length:		



**Description: (12) 7"x17.5" Stringers, Concrete Abutment**

**Remarks:**

1. Bridge is silted in



## Inspection Photos



**415.20 Looking East**



**415.20 Looking West**



## Inspection Photos



**415.20 Looking North**



**415.20 Looking South**



## Inspection Photos



**415.20 Holes in ballast on west side**



**415.20 Southwest wingwall undermined**

## Inspection Photos



**415.20 Southeast wingwall undermining**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 415.32  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream X (Drainage) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 12:55 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80 # Type: Jointed Visual Condition Rating: 3  
 Notes: Low approaches east and west  
TIES Type: Timber Tie Condition Rating: 5  
 Notes: Tie plate shifted east side  
BALLAST Depth: N/A Ballast Condition Rating: 3  
 Notes: Fouled ballast and low ballast at approaches  
DECK PLANKS Type: N/A Condition Rating:          Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 7  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber 15' Concrete           
 Type: Truss          Deck Girder          Through           
 Trestle          X Girder           
 Num Spans 1 Approx. Span Lengths 13'-6"  
 Notes: Open Deck Timber Trestle - Built 1940 - Inaccessible

## SUBSTRUCTURE

Visual Condition Rating 7  
 Bent:          Type          Notes           
 Abutment:          Type Concrete Notes           
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas: Unable to inspect due to silting

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes Fully silted in

## OVERALL RATING

High Priority          Medium Priority          Low Priority X

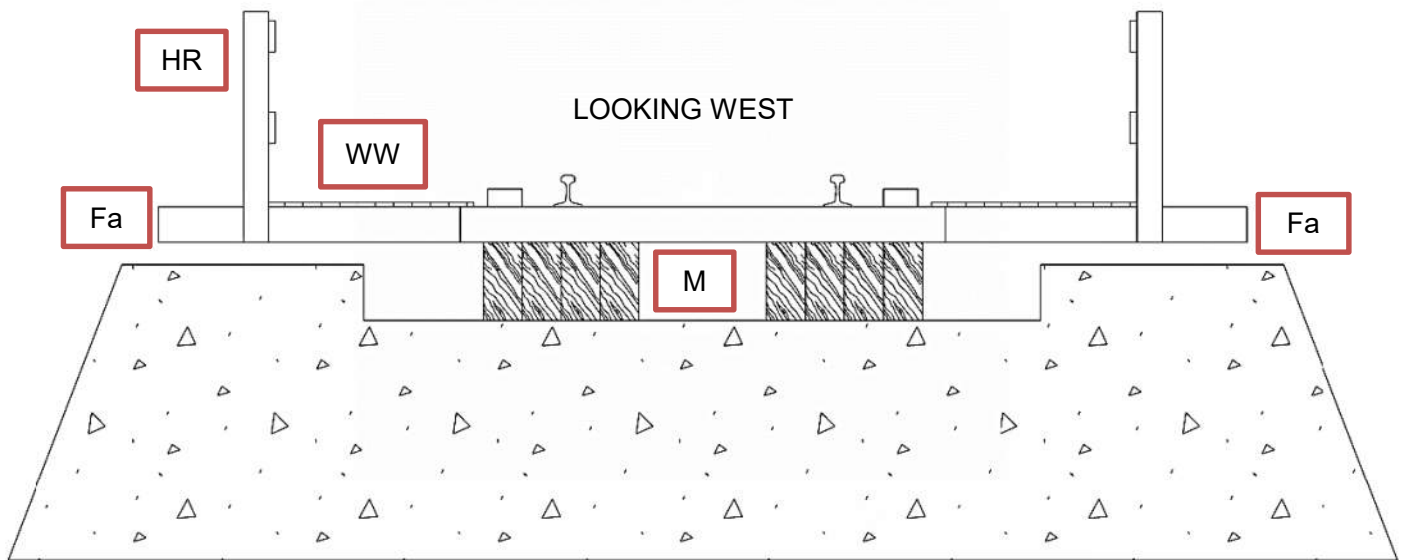
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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT

Span: 1	Alignment: TANGENT	Vert. Clear: None	Bridge No.	415.32
DETAILS - ABUT NUMBER: 1			Span Length:	13'6"



**Description: (8) 8.5"x17.5" Stringers, Concrete Abutment**

### Remarks:

1. Fa - Both wingwalls are failing
2. M - Headwall is missing material
3. HR - Handrail is broken or missing from both sides
4. WW - Walkway grating has been ran over and constitutes a tripping hazard, vegetation growing in front, major hazard - see photo
5. Bridge is fully silted in

Inspected By:

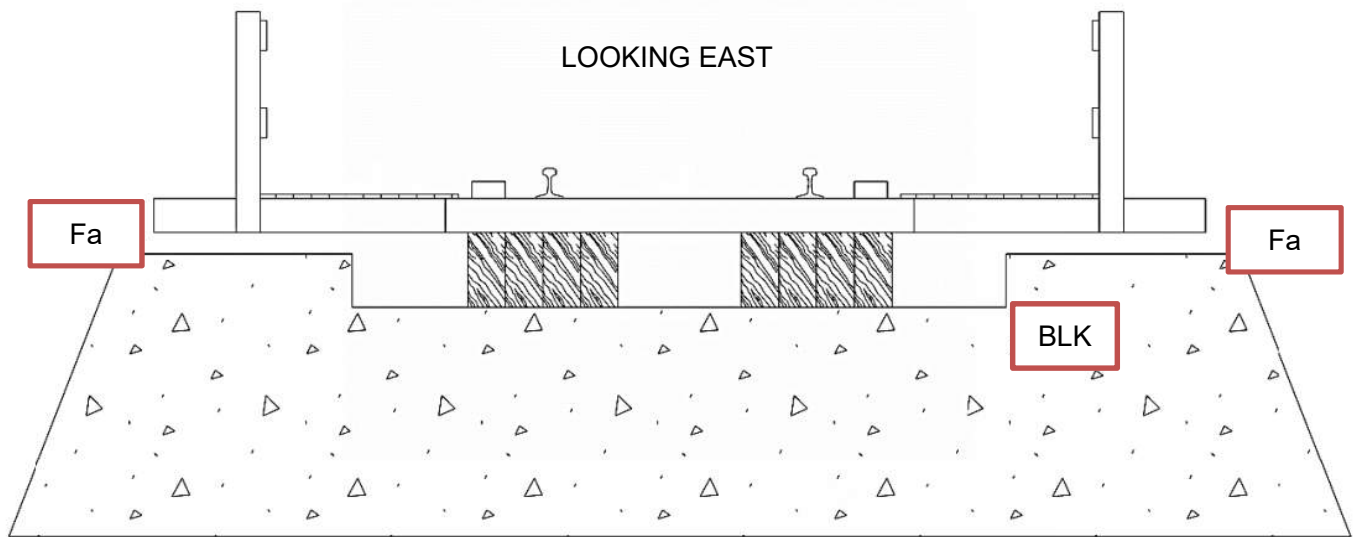
Joseph Holste, PE

Date Inspected:

12/11/2019

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>None</b>	Bridge No.	<b>415.32</b>
DETAILS - ABUT NUMBER: <b>2</b>	Span Length:		



**Description: (8) 8.5"x17.5" Stringers, Concrete Abutment**

**Remarks:**

1. Bridge is fully silted in
2. Fa - Both wings failing and hole in ballast southeast corner
3. BLK - SE abutment stone block dislodged - see photo.
4. Hole in soil behind abutment 2 - see photo



## Inspection Photos



**415.32 Looking East**



**415.32 Looking West**



## Inspection Photos



**415.32 Looking North**



**415.32 Looking South**



## Inspection Photos



**415.32 Damaged walkway – south side**



**415.32 Tie Plate Loose**



## Inspection Photos



**415.32 Hole in Ballast, SE Corner**



**415.32 Wingwall failing, typ all corners**



## Inspection Photos



**415.32 Hole in soil behind Abutment 2**



**415.32 SE abutment stone block dislodged**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 415.59  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream X (Santa Paula Creek) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 1:10 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open/Ballast Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80 # Type: Jointed Visual Condition Rating: 5  
 Notes:           
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth: 12 in (TPG) Ballast Condition Rating: 3  
 Notes: Low Ballast  
DECK PLANKS Type: N/A Condition Rating:          Notes:           
OTHER Type: Steel ballast retainer Condition Rating: 5

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel X Timber          Concrete           
 Type: Truss 100' Deck Girder          Through           
 Trestle          Girder 66'-8"  
 Num Spans 1 Approx. Span Lengths 166'-8"  
 Notes: Thru Plate Girder and Thru Truss

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Concrete Notes           
 Abutment: 5 Type Concrete Notes           
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 1' Scour Evidence no Moving Water yes  
 Notes           
          
        

## OVERALL RATING

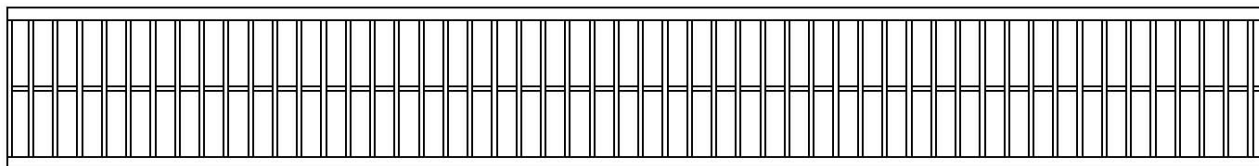
High Priority          Medium Priority          Low Priority X



<b>BRIDGE INSPECTION REPORT --- STEEL STRUCTURE</b>							
<b>Spans:</b>	<b>1</b>	<b>Alignment:</b>	<b>Tangent</b>	<b>Vert. Clear:</b>	<b>15' +/-</b>	<b>Bridge No.</b>	<b>415.59a</b>
<b>No. of Tks:</b>	<b>1</b>	<b>Deck Type:</b>	<b>Ballast</b>	<b>Br. Over:</b>	<b>Creek</b>	<b>Overall Length:</b>	<b>67'</b>
<b>ENVIRONMENT</b>		<b>GIRDERS</b>		A06 Pier Shaft	<b>5</b>		
E01 Scour	5	S01 Girder	5	A07			
E02 Channel	5	S02 Top Lateral Braces	5	A08			
E03 Approach	5	S03 Bottom Lateral Braces	5	A09			
<b>DECK</b>		S04 Cross Braces	5	<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	S05 Bearings	5	M01			
D02 Ties Spacers	N/A	<b>ABUTMENTS &amp; PIERS</b>		M02			
D03 Rail	5	A01 East Abutment	N/A	M03			
D04 Footwalk	5	A02 East Wingwalls	N/A	M04			
D05 Handrail	N/A	A03 West Abutment	5	Overall Rating:	<b>5</b>		
D06 Floor Beams	5	A04 West Wingwalls	5				
D07 Ballast Curb	5	A05 Pier Cap	5				
<b>COMMENTS</b>							
<b>Reference</b>	<b>Remark</b>						
Structure	Minor rust at bottom chord connection plate						
Fence	Fence breach over bearing - pier 2 - see photo						
Approach	Low ballast west side						
<b>MAINTENANCE RECOMMENDATIONS</b>							
<b>Priority</b>	<b>Description</b>						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & - raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	

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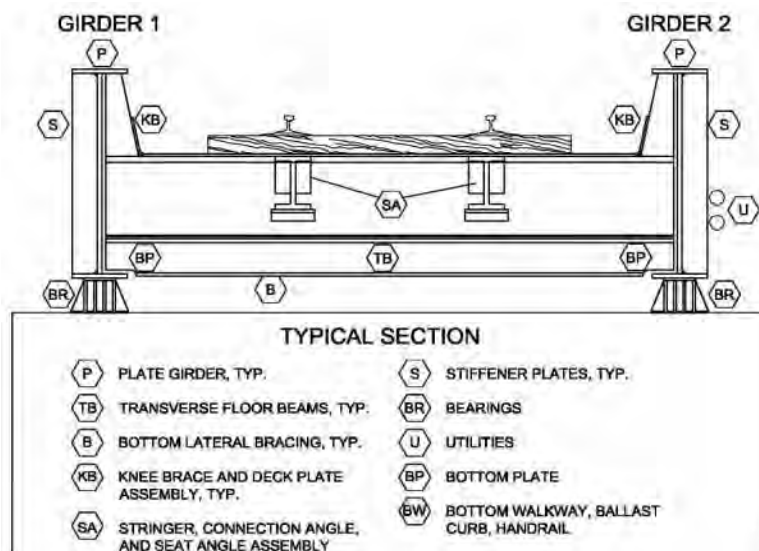




LEFT SIDE

RIGHT SIDE

### BOTTOM LATERAL BRACING



DIVISION	Santa Paula	SPAN LENGTH	66'-8"
NUMBER OF TRACKS	1	CROSSING	Santa Paula Creek
TRACK ALIGNMENT	TANGENT	SPAN No.	1
INSPECTION FINDINGS			
	Grout pad cracked under bearing at pier 2 - see photo		

Inspected by: Joseph Holste, PE

Date: 12/11/2019

Bridge Number: 415.59a

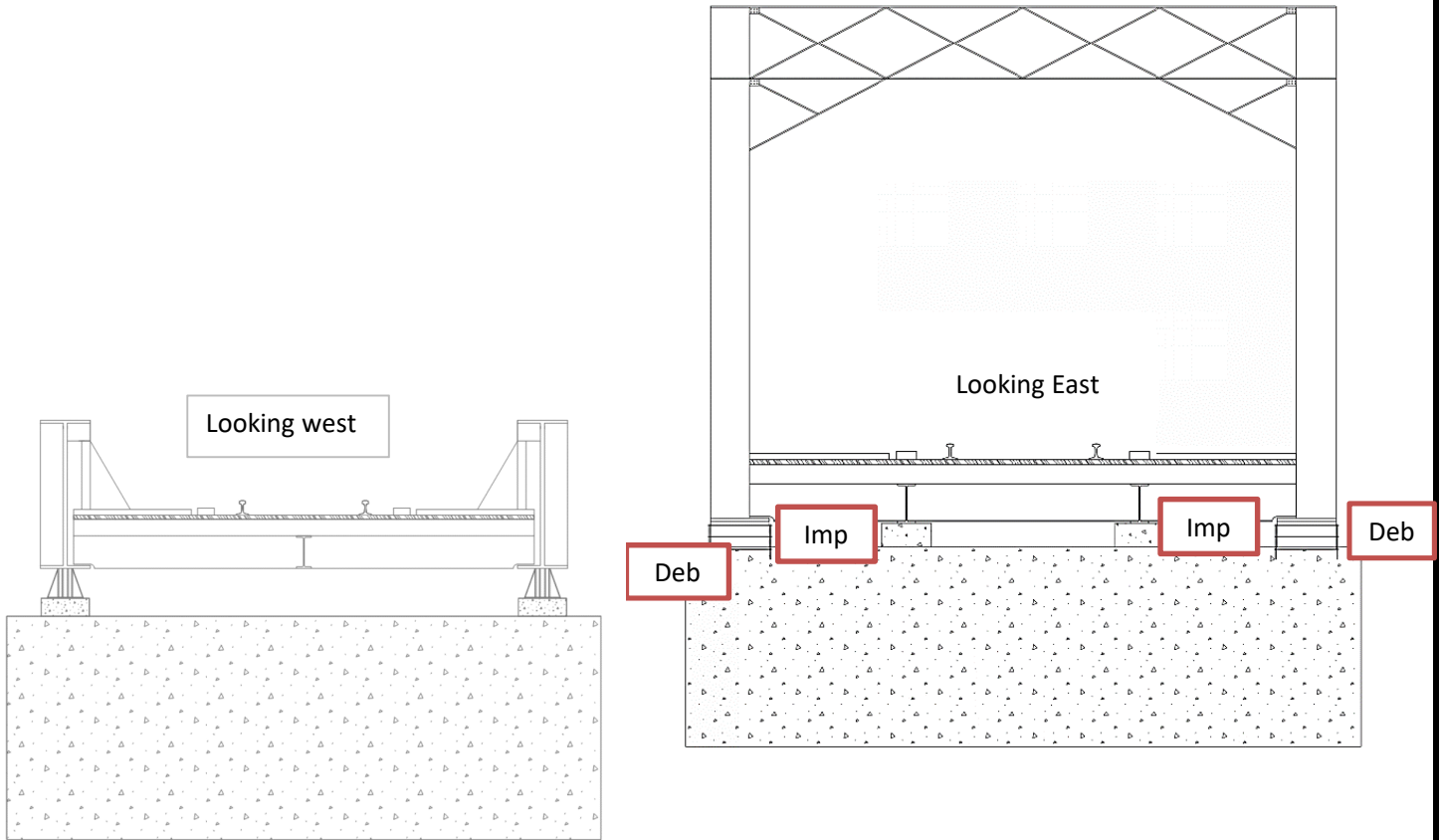
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE							
Spans:	1	Alignment:	Tangent	Vert. Clear:	15' +/-	Bridge No.	415.59b
No. of Tks:	1	Deck Type:	Open Deck	Br. Over:	Creek	Overall Length:	100'
<b>ENVIRONMENT</b>		<b>GIRDERS</b>		A06 Pier Shaft		5	
E01 Scour	5	S01 Girder	5	A07			
E02 Channel	5	S02 Top Lateral Braces	5	A08			
E03 Approach	5	S03 Bottom Lateral Braces	5	A09			
<b>DECK</b>		S04 Cross Braces		<b>MISC. OTHER</b>			
D01 Ties (OD only)	5	S05 Bearings	5	M01			
D02 Ties Spacers	5	<b>ABUTMENTS &amp; PIERS</b>		M02			
D03 Rail	5	A01 East Abutment	5	M03			
D04 Footwalk	5	A02 East Wingwalls	5	M04			
D05 Handrail	5	A03 West Abutment	N/A	Overall Rating:		5	
D06 Floor Beams	5	A04 West Wingwalls	N/A				
D07 Ballast Curb	N/A	A05 Pier Cap	5				
<b>COMMENTS</b>							
Reference	Remark						
S03	Bottom chord and lateral bracing has numerous impacts from debris. Most are minor with a couple moderate - see photo						
S05	Debris in bearings						
D03 Guard Rail	Material between inside guard rail and running rail both ends, both sides						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
S05, B	Clean bearings						
D03, B	Remove material between inside guard rail and running rail both ends, both sides						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE PIER					
Span: 2	Alignment: TANGENT	Vert. Clear: 20'+	Bridge No.	415.59b	
DETAILS - PIER NUMBER: 2		TPG to TRUSS at PIER	Span Length:	100'	

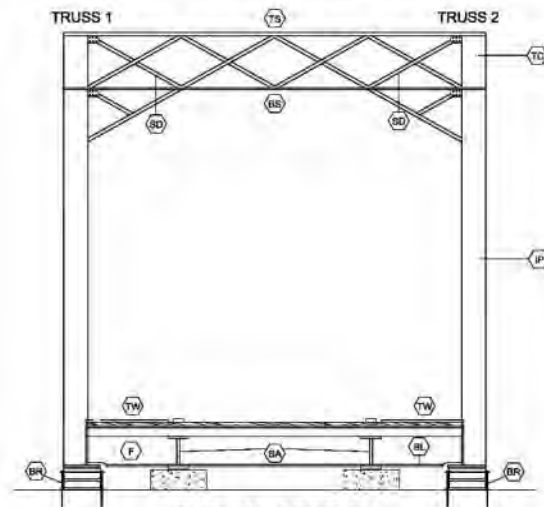
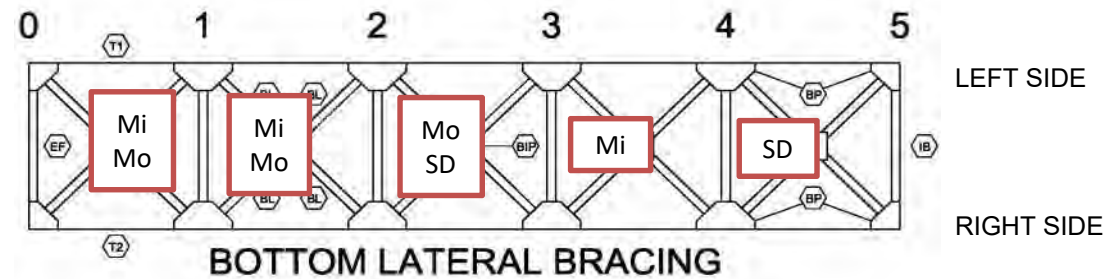
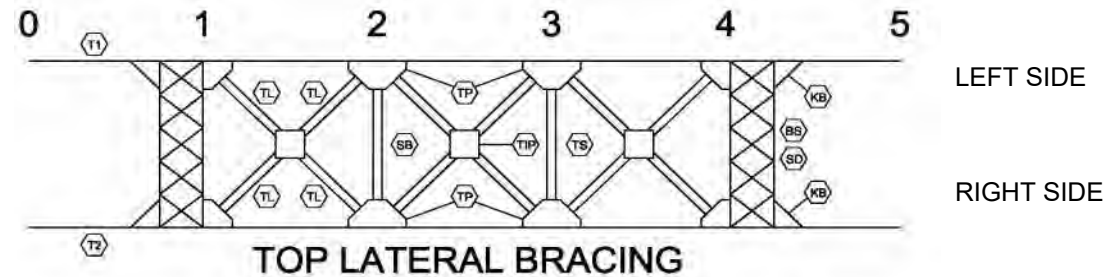


**Description:** Thru Plate Truss, Concrete Pier

**Remarks:**

1. Imp - Bottom chord both sides shows signs of impact - see photo
2. Deb - Debris around bearings both sides

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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- SC BOTTOM CHORD
- BP BOTTOM LATERAL INTERSECTION PLATE
- BL BOTTOM LATERALS
- IP BOTTOM LATERAL PLATE
- BR BEARINGS
- DS SWAY BRACING - BOTTOM STRUT
- D DIAGONALS
- BA END FLOORBEAM
- EP END POST
- F FLOORBEAM
- FB FLOORBEAM BRACKET AND CONNECTION ANGLE ASSEMBLY
- GP GUSSET PLATE
- H HANGER
- IB INTERMEDIATE FLOORBEAM
- IP INTERMEDIATE POST
- KB KNEE BRACE
- S1 STRINGER 1 - LEFT SIDE
- S2 STRINGER 2 - RIGHT SIDE
- SA STRINGER, CONNECTION ANGLE AND SEAT ANGLE ASSEMBLY
- SB SWAY BRACING
- SD SWAY BRACING - DIAGONALS
- SL STRINGER LATERALS
- SP STRINGER LATERAL PLATE
- SS STRINGER STRUT
- T1 TRUSS 1 - LEFT SIDE
- T2 TRUSS 2 - RIGHT SIDE
- TL TOP CHORD
- TP TOP LATERAL INTERSECTION PLATE
- TS TOP LATERALS
- TP TOP LATERAL PLATE
- TS SWAY BRACING - TOP STRUT
- TW TOP WALKWAY, BALLAST CURB, AND HANDRAIL

DIVISION	Santa Paula	SPAN LENGTH	100'	NUMBER OF TRACKS	1
CROSSING	Santa Paula Creek	TRACK ALIGNMENT	TANGENT	SPAN No.	2
INSPECTION FINDINGS					
SD	Bottom laterals of bay #5 show most severe damage				
Mi, Mo	Bays #1 & #2 have minor to moderate impact damage				
Mo, SD	Bay #3 has moderate to severe impact damage				
Mi	Bay #4 has minor impact damage				





- |            |   |           |  |           |   |
|------------|---|-----------|--|-----------|---|
| <b>BC</b>  | BOTTOM CHORD                                    | <b>GP</b> | GUSSET PLATE                                       | <b>SP</b> | STRINGER LATERAL PLATE                  |
| <b>BL</b>  | BOTTOM LATERAL INTERSECTION PLATE               | <b>H</b>  | HANGER   | <b>SS</b> | STRINGER STRUT                          |
| <b>BL</b>  | BOTTOM LATERALS                                 | <b>IB</b> | INTERMEDIATE FLOORBEAM                             | <b>T1</b> | TRUSS 1 - LEFT SIDE                     |
| <b>BP</b>  | BOTTOM LATERAL PLATE                            | <b>IP</b> | INTERMEDIATE POST                                  | <b>T2</b> | TRUSS 2 - RIGHT SIDE                    |
| <b>BW</b>  | BEAMINGS  | <b>KB</b> | KNEE BRACE   | <b>TC</b> | TOP CHORD                               |
| <b>BS</b>  | SWAY BRACING - BOTTOM STRUT                     | <b>S1</b> | STRINGER 1 - LEFT SIDE                             | <b>TI</b> | TOP LATERAL INTERSECTION PLATE          |
| <b>D</b>   | DIAGONALS                                       | <b>S2</b> | STRINGER 2 - RIGHT SIDE                            | <b>TL</b> | TOP LATERALS                            |
| <b>EA</b>  | END FLOORBEAM                                   | <b>SA</b> | STRINGER, CONNECTION ANGLE AND SEAT ANGLE ASSEMBLY | <b>TP</b> | TOP LATERAL PLATE                       |
| <b>EP</b>  | END POST  | <b>SB</b> | SWAY BRACING                                       | <b>TS</b> | SWAY BRACING - TOP STRUT                |
| <b>F</b>   | FLOORBEAM                                       | <b>SD</b> | SWAY BRACING - DIAGONALS                           | <b>TW</b> | TOP WALKWAY, BALLAST CURB, AND HANDRAIL |
| <b>FLB</b> | FLOORBEAM BRACKET AND CONNECTION ANGLE ASSEMBLY | <b>SL</b> | STRINGER LATERALS                                  |           |   |

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BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE ABUTMENT					
	Alignment: TANGENT	Vert. Clear:	15'+	Bridge No.	415.59b
DETAILS - ABUT NUMBER: 3			Span Length:		
<p style="text-align: center;">Looking East</p>					
<b>Description: Thru Plate Truss, Concrete Abutment</b>					
<b>Remarks:</b>					
1. Deb - Debris around NE and SE bearing - see photo					
Inspected By:	Joseph Holste, PE			Date Inspected:	12/11/2019



## Inspection Photos



**415.59 Looking East**



**415.59 Looking West**

## Inspection Photos



**415.59 Looking North**



**415.59 Looking South**



## Inspection Photos



**415.59 Channel Condition. Looking upstream**



**415.59 Channel Condition. Looking downstream**



## Inspection Photos



**415.59 Material between inside guardrail and running rail, typ both sides**



**415.59 Fence breach over Pier 2, north side**



## Inspection Photos



**415.59 Fence breach over Pier 2, south side**



**415.59 Grout pad cracked under bearing, Pier 2**

## Inspection Photos



**415.59 Minor impact damage – typical bottom cross bracing**



**415.59 Debris at NE Bearing**



## Inspection Photos



**415.59 Debris at SE Bearing**



INSPECTION TYPE:	Annual
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## INSPECTION INFORMATION

Date	<u>11-Dec-19</u>	Time	<u>2:10 PM</u>
Inspector Name	<u>Joseph Holste, PE</u>		
Telephone Number	<u>303-501-1215</u>		
Company	<u>Wilson &amp; Company</u>		

<b>DECK</b>	Type:	<u>Ballasted</u>	Number of Tks	<u>1</u>	Visual Condition Rating	<u>5</u>
	<b><u>RAIL</u></b>	Weight:	<u>80#</u>	Type:	<u>Jointed</u>	Visual Condition Rating: <u>3</u>
		Notes:	<u>East approach low. Dips in rail across spans 1 &amp; 2</u>			
	<b><u>TIES</u></b>	Type:	<u>Timber</u>	Tie Condition Rating:	<u>3</u>	
		Notes:	<u>Ties are split - see photo</u>			
	<b><u>BALLAST</u></b>	Depth:	<u>12 in</u>	Ballast Condition Rating:	<u>5</u>	
		Notes:				
	<b><u>DECK PLANKS</u></b>	Type:	<u>Timber</u>	Condition Rating:	<u>3</u>	Notes: <u>Rot w/ballast showing</u>
	<b><u>OTHER</u></b>	Type:		Condition Rating:		

Visual Condition Rating	<u>3</u>				
Type:	Culvert:	Number barrels	_____	Round or Rect	_____
		Approx Lngth.	_____	Concrete	_____
				Steel	_____
	Bridge:	Steel	_____	Timber	<u>45'</u>
				Concrete	_____
	Type:	Truss	_____	Deck Girder	_____
		Trestle	_____		Through
				X	Girder
		Num Spans	<u>3</u>	Approx. Span Lengths	<u>15',15',14'-6"</u>
Notes:	Ballast Deck Timber Trestle - Built 1959				

Visual Condition Rating		5		
Bent:	5	Type	Concrete	Notes
Abutment:	5	Type	Concrete	Notes
Wingwalls:	3	Type	Concrete	Notes
Embank		Type		Notes
Footing		Type		Notes
Inaccessible areas:				

Visual Condition Rating	N/A		
Stream Depth	Scour Evidence	Moving Water	
Notes			

High Priority      X      Medium Priority      Low Priority

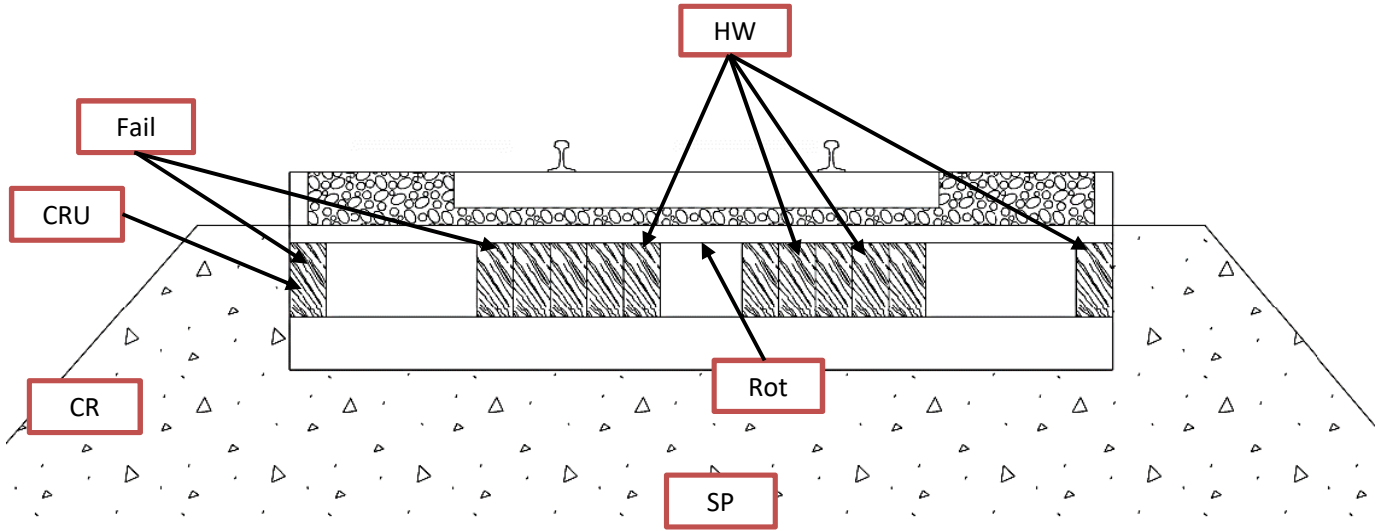
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	3	Alignment:	Tangent	Vert. Clear:	6'-7"	Bridge No.	415.69
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Ferris Rd.	Overall Length:	45'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	N/A	S01 Stringers		3	B08 Sash Brace		N/A
E02 Channel	N/A	S02 Line Bolts		N/A	B09 Long Brace		N/A
E03 Approach	3	S03 Bearing @ Cap		3	B10 Cap Long Brace		N/A
<b>DECK</b>		<b>BENTS</b>				<b>MISC. OTHER</b>	
D01 Ties (OD only)	N/A	B01 West Abutment & Wingwalls		3	M01		
D02 Ties Spacers	N/A	B02 East Abutment & Wingwalls		3	M02		
D03 Rail	3	B03 Caps		5	M03		
D04 Ballast Floor	3	B04 Pierwalls		5	M04		
D05 Ballast Retainer	5	B05 Framed Bents		N/A	Overall Rating:		3
D06 Footwalk	N/A	B06 Posts		N/A			
D07 Handrail	N/A	B07 Cross Braces		N/A			
COMMENTS							
Reference	Remark						
Wingwall	All wingwalls leaning - see photo						
Utilities	Overhead power lines at east end, change vertical clearance sign to 6'-10"						
D04	Deck planks rotten and failing						
S01	Minor checking and splitting. Impact damage spans #2 & #3. Stringers failed/rotten/crushing most spans						
Drainage	Poor drainage under structure						
MAINTENANCE RECOMMENDATIONS							
Priority	Description						
E03, B	Raise east approach						
D03	Replace rail with heavier section as tonnage dictates						
B01, B02, B	Repair wingwalls						
S01, A	Replace failed/rotten/crushing stringers						
D04, A	Replace failed deck planks						
	Recommend a quarterly inspection (3 months) to assure the bridge is functional until repairs are made along with a slow order of 10 mph be placed on the bridge.						
CONDITION RATING				PRIORITY			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 3'	Bridge No.	415.69
DETAILS - ABUT NUMBER: 1			Span Length:	15'



**Description: Looking West - (12) 8"x17" Timber Stringers, Concrete Abutment**

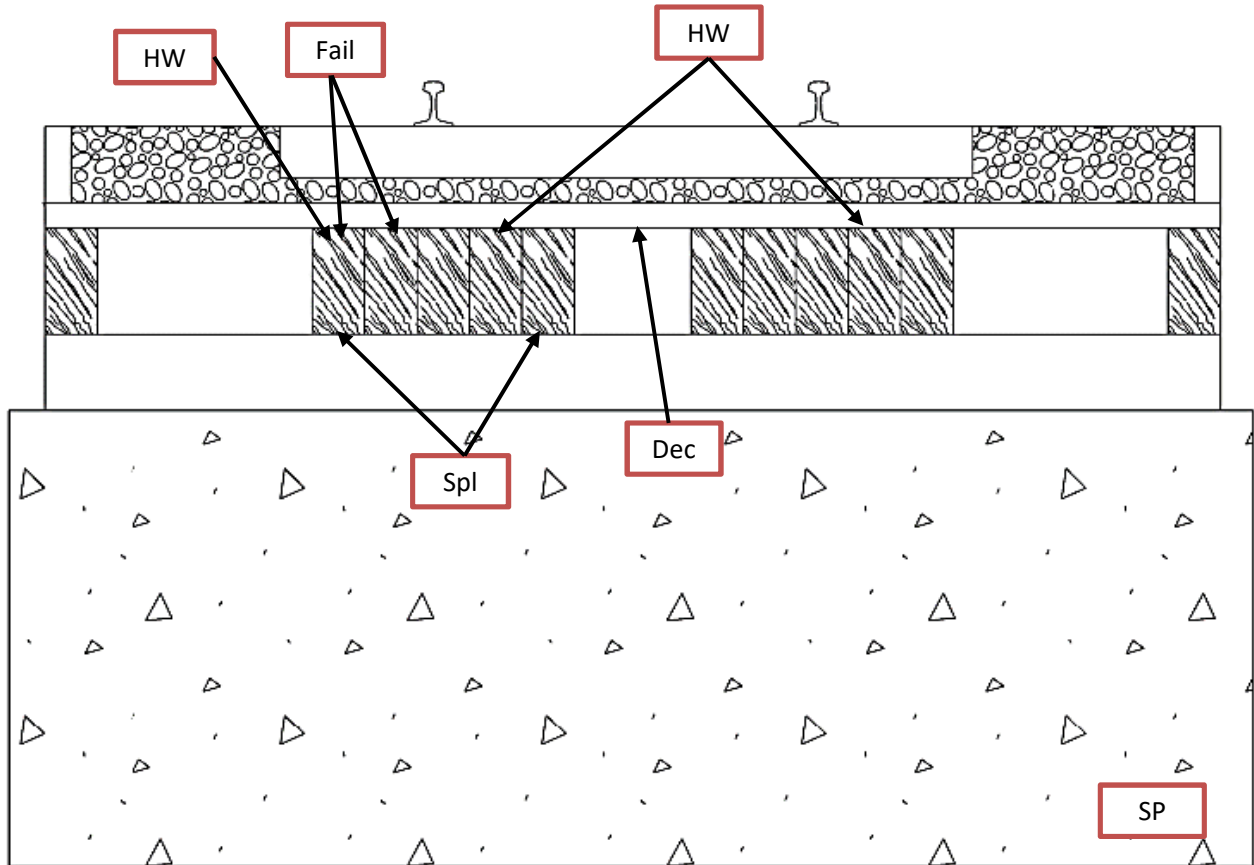
**Remarks:**

1. Rot - Ballast plank showing signs of decay and is rotten between stringer chords causing ballast leak - see photo
2. HW - Stringers #1, #3, #5, and #7 are hollow
3. Fail - Stringer #11 is failed and is crushing at pier #2 - see photo
4. SP - Minor spalls in abutment - see photo
5. CR - Cracking in wingwalls - see photo
6. CRU - Stringer 12 crushed at abutment 1 - see photo
7. Fail - Stringer 12 is rotten/failed - see photo
8. DEB - Debris under span - see photo
9. Holes in ballast - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE PIER				
Span: 2	Alignment: TANGENT	Vert. Clear: 6'-7"	Bridge No.	415.69
DETAILS - PIER NUMBER: 2			Span Length:	15'



**Description: Looking West - (12) 8"x17" Timber Stringers, Concrete Pier**

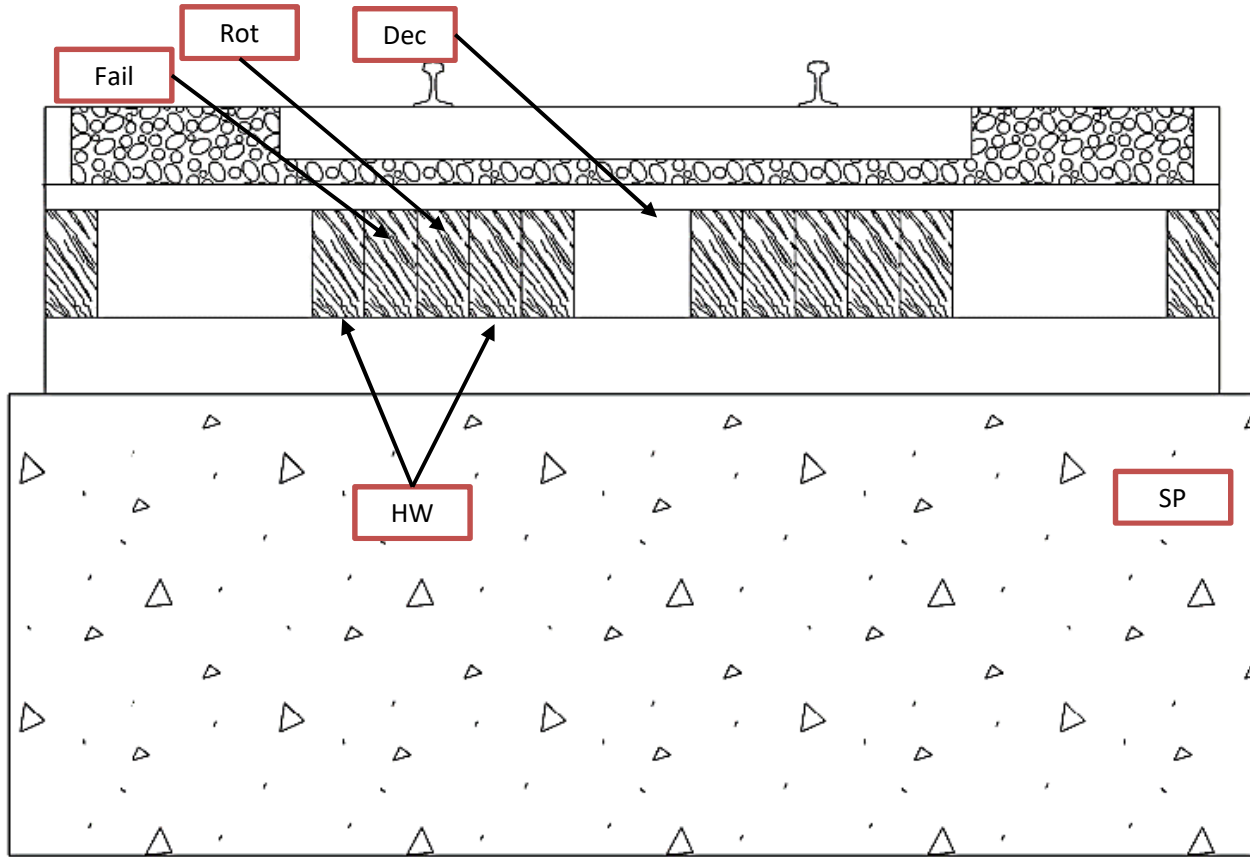
1. SP - Minor spalls on pier - see photo
2. Signs of minor hits on chord and ballast stringer - see photo
3. Dec - Ballast planks between chord are showing signs of decay
4. HW - Stringers #3 and #8 are hollow
5. Deck plank rotten with hole - see photo
6. Spl - Stringer #7 and #11 longitudinal split and bulging
7. Fail - Stringers #10 and #11 are failed
8. Stringer #10 deflected 1.75" - see photo



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE PIER

Span: 3	Alignment: TANGENT	Vert. Clear: 6'-10"	Bridge No.	415.69
DETAILS - PIER NUMBER: 3			Span Length:	14'-6"



### Description: Looking West - (12) 8"x17" Timber Stringers, Concrete Pier

1. Stringers show signs of impact
2. Dec - Ballast planks show signs of decay with ballast showing in holes - see photo
3. Update clearance signs to 6'-10"
4. Stringers #8 & #11 hollow near pier #3
5. Stringer 6 rotated 1" - see photo
6. Spall North side pier #3
7. Stringer #10 is failed and deflected 0.5"

Inspected By:

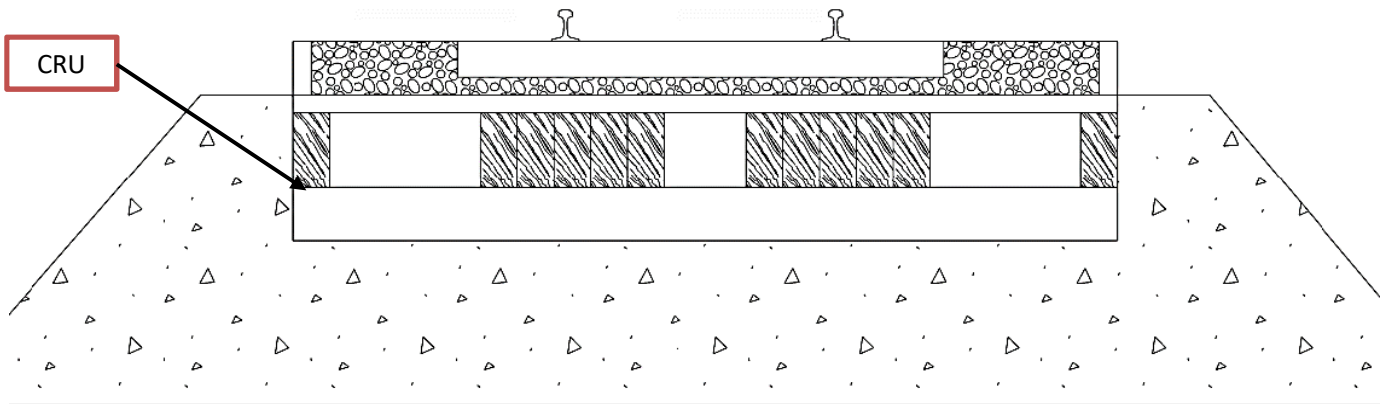
Joseph Holste, PE

Date Inspected:

12/11/2019

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>6'-7"</b>	Bridge No.	<b>415.69</b>
DETAILS - ABUT NUMBER: <b>4</b>	Span Length:		



**Description: Looking East - (12) 8"x17" Timber Stringers, Concrete Abutment**

1. Minor spalls in abutment
2. Cracking and spall in wingwalls - see photo
3. CRU - Stringer 1 crushing at abutment 4



## Inspection Photos



**415.69 Looking East**



**415.69 Looking West**



## Inspection Photos



**415.69 Looking North**



**415.69 Looking South**



## Inspection Photos



**415.69 Leaning wingwall, typ**



**415.69 Undermining SE ballast retainer**



## Inspection Photos



**415.69 Ties splitting**



**415.69 Hole in ballast, Span 1**



## Inspection Photos



**415.69 Rotten deck plank at Abutment 1**



**415.69 Abutment 1 Spall**

## Inspection Photos



**415.69 Cracks in Southwest Wingwall**



**415.69 Poor ballast planks (typ.)**



## Inspection Photos



**415.69 Stringer 12 crushing – Abutment 1**



**415.69 Stringer 12 is rotten/failed – Span 1**

## Inspection Photos



**415.69 Debris under Span 1**



**415.69 Stringer 11 crushing - Pier 2**



## Inspection Photos



**415.69 Spall North Side of Pier 2**



**415.69 Stringer 10 deflected 1.75" – Span 2**



## Inspection Photos



**415.69 Impact damage on stringers (typ.)**



**415.69 Major impact damage to Stringer 1, typ Span 2 and 3**

## Inspection Photos



**415.69 Stringer 6 rotated 1" at Pier 3 & Abutment 4**



**415.69 Decay of deck ballast plank. Mid-span, Span 3**



## Inspection Photos



**415.69 Spall on wingwall at abutment 4**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 415.79  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream \_\_\_\_\_ Overpass \_\_\_\_\_ Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 2:50 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballasted Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: \_\_\_\_\_  
TIES Type: Timber Tie Condition Rating: 3  
 Notes: Mostly split  
BALLAST Depth: 9" Ballast Condition Rating: 3  
 Notes: Fouled ballast  
DECK PLANKS Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 7  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 16'-5" Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ X Girder \_\_\_\_\_  
 Num Spans 2 Approx. Span Lengths 7'-6"  
 Notes: Ballast Deck Timber Trestle

## SUBSTRUCTURE

Visual Condition Rating 7  
 Bent: 7 Type Mudsill-Timber Notes Bent #2  
 Abutment: 7 Type Concrete Notes Abut #1 & #3  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: Abutments and piers are mostly silted in

## STREAM CHANNEL

Visual Condition Rating N/A  
 Stream Depth \_\_\_\_\_ Scour Evidence \_\_\_\_\_ Moving Water \_\_\_\_\_  
 Notes \_\_\_\_\_

## OVERALL RATING

High Priority \_\_\_\_\_ Medium Priority X Low Priority \_\_\_\_\_

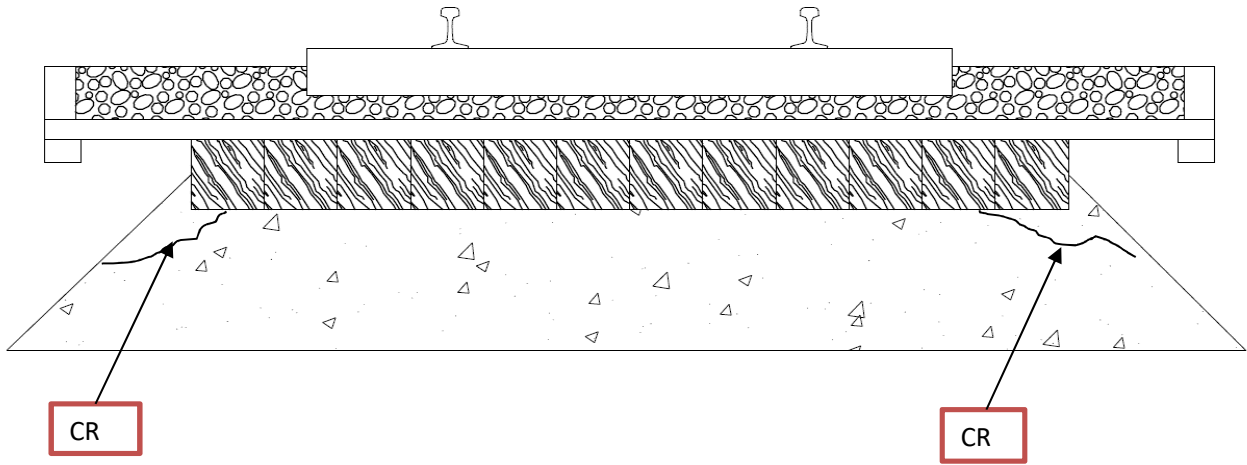


MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	2	Alignment:	Tangent	Vert. Clear:	1'	Bridge No.	415.79
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Drainage	Overall Length:	16'-5"
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	N/A	S01 Stringers	7	B08 Sash Brace		N/A	
E02 Channel	N/A	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	7	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Backwall	7	M01			
D02 Ties Spacers	N/A	B02 East Backwall	7	M02			
D03 Rail	3	B03 Caps	7	M03			
D04 Ballast Floor	7	B04 Piles	7	M04			
D05 Ballast Retainer	3	B05 Framed Bents	N/A	Overall Rating:		3	
D06 Footwalk	N/A	B06 Posts	N/A				
D07 Handrail	N/A	B07 Cross Braces	N/A				
<b>COMMENTS</b>							
Reference	Remark						
Utility	18"CIP 6' below top of tie left side plugged, right side below existing ground line						
Ties	Ties are in poor condition						
Ballast	North and south ballast guard are leaning out and ballast is fouled						
Wingwall	No wingwalls						
Ballast	9" ballast						
Handrail	No handrails						
	Could replace with CMP						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
	Replace with 3 to 4 - 16" culverts, need hydrology study						
D03	Replace rail with heavier section as tonnage dictates						
D05, B	Repair ballast guard						
E03, B	Add ballast to approaches						
S01, B	Clean channel to allow inspection						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 1'	Bridge No.	415.79
DETAILS - ABUT NUMBER: 1			Span Length:	7'-6"



**Description: Looking West - (12) 11-3/4"x11-3/4" Timber Stringers, Concrete Abutment**

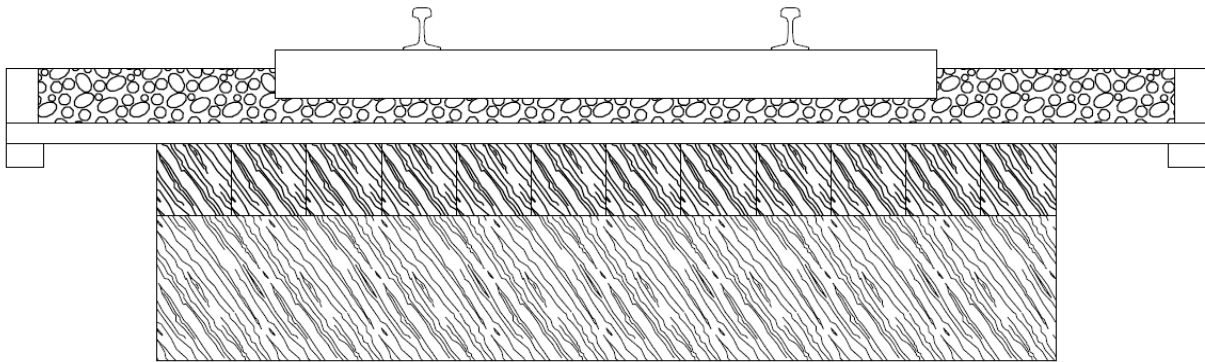
**Remarks:**

1. CR - Cracked stringer retainer



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: 1'	Bridge No.	415.79
DETAILS - BENT NUMBER: 2			Span Length:	7'-6"



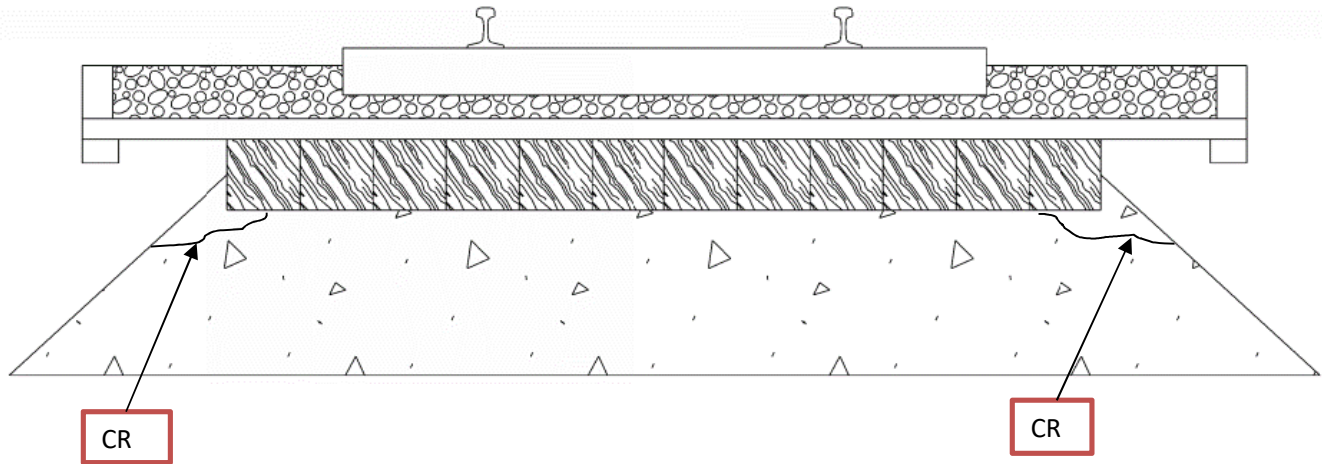
**Description: Looking West - (12) 11-3/4"x11-3/4" Timber Stringers, Timber Bent**

**Remarks:**

1. Possible supported on mudsill
2. Could not inspect due to silting

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear:	Bridge No.	<b>415.79</b>
DETAILS - ABUT NUMBER: <b>3</b>		Span Length:	



**Description: Looking East - (12) 11-3/4"x11-3/4" Timber Stringers, Concrete Abutment**

**Remarks:**

1. CR - Cracked stringer retainer
2. Could not inspect due to silting



## Inspection Photos



**415.79 Looking East**



**415.79 Looking West**



## Inspection Photos



**415.79 Looking North**



**415.79 Looking South**



## Inspection Photos



**415.79 Low ballast – East approach**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 415.82  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream \_\_\_\_\_ Overpass \_\_\_\_\_ Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 3:00 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballasted Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: \_\_\_\_\_  
TIES Type: Timber Tie Condition Rating: 5  
 Notes: \_\_\_\_\_  
BALLAST Depth: 9" Ballast Condition Rating: 5  
 Notes: \_\_\_\_\_  
DECK PLANKS Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 15'-11' Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ X Girder \_\_\_\_\_  
 Num Spans 2 Approx. Span Lengths 7'-7"  
 Notes: Ballast Deck Timber Trestle - Built 1958

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent: 3 Type Timber Notes Bent #2- Stringers not bearing on cap  
 Abutment: 5 Type Concrete Notes Abut #1 & #3  
 Wingwalls: 3 Type Concrete Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating N/A  
 Stream Depth \_\_\_\_\_ Scour Evidence \_\_\_\_\_ Moving Water \_\_\_\_\_  
 Notes \_\_\_\_\_  
 \_\_\_\_\_

## OVERALL RATING

High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority X



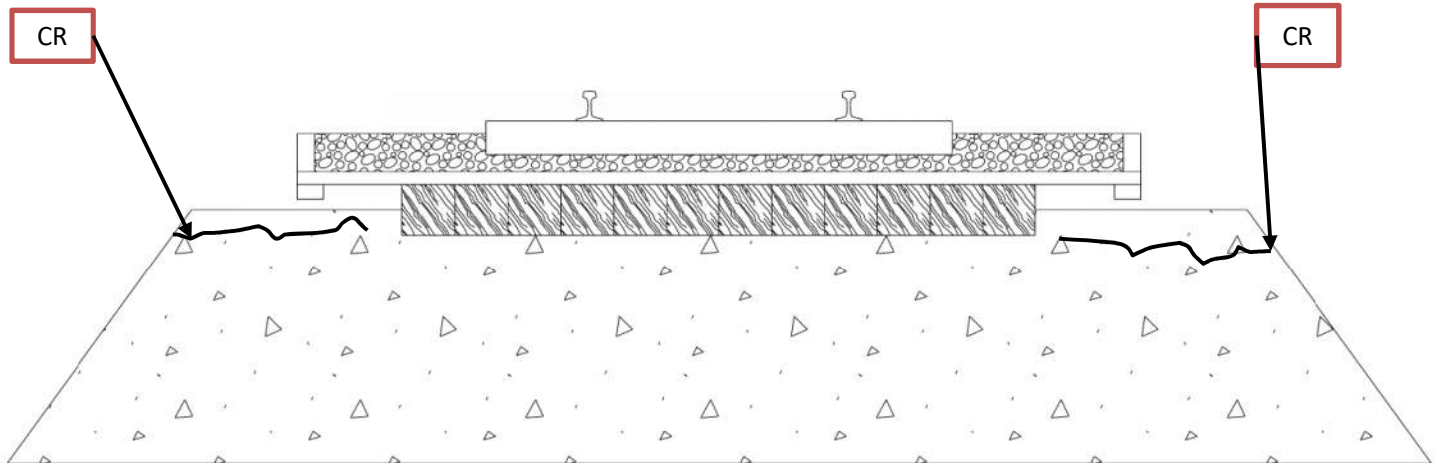
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	2	Alignment:	Tangent	Vert. Clear:	4'	Bridge No.	415.82
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Drainage	Overall Length:	15'-11"
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	5	S01 Stringers	5	B08 Sash Brace		N/A	
E02 Channel	5	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	3	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Abutment & Wingwalls	3	M01			
D02 Ties Spacers	N/A	B02 East Abutment & Wingwalls	3	M02			
D03 Rail	3	B03 Caps	5	M03			
D04 Ballast Floor	5	B04 Pier	3	M04			
D05 Ballast Retainer	3	B05 Framed Bents	N/A	Overall Rating:		3	
D06 Footwalk	N/A	B06 Posts	N/A				
D07 Handrail	N/A	B07 Cross Braces	3				
<b>COMMENTS</b>							
Reference	Remark						
Wingwalls	Wingwalls both east and west side has some ballast loss, undermined all 4 corners - see photo						
Structure	Bridge has been burned- Fire damage						
Ballast	Ballast plank 3" x 12", 9" of ballast, low ballast E/W approaches						
Headwall	Stringer headwall retainer is broken on left and right side						
Ballast Retainer	North ballast retainer leaning - see photo						
Drainage	Trash accumulation under structure						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
D03	Replace rail with heavier section as tonnage dictates						
B01, B02, D05, B	Repair wingwalls and headwall retainer, both ends						
B07, B	Replace sway braces						
E03, B	Add ballast at approaches						
B04, B11, S03, A	Shim pier to provide bearing						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
3. Satisfactory but with exceptions: Slow order may be required.				C. Within 3 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				D. Within 5 years			
5. Good with minor exceptions				E. Within 10 years			
6. New Bridge				M. Monitor, Condition may change & raise priority			
7. Not inspected: Reason stated				-			
Inspected By:		Joseph Holste, PE		Date Inspected:		12/11/2019	

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT

Span: 1	Alignment: TANGENT	Vert. Clear: 4'	Bridge No.	415.82
DETAILS - ABUT NUMBER: 1			Span Length:	7'-7"



**Description: Looking West - (12) 11-3/4"x11-3/4" Timber Stringers, Concrete Abutment**

### Remarks:

1. CR- Stringer retainer cracked both sides - see photo
2. Monitor retainers for additional movement
3. Charing is approximately 1/4" - see photo

Inspected By:

Joseph Holste, PE

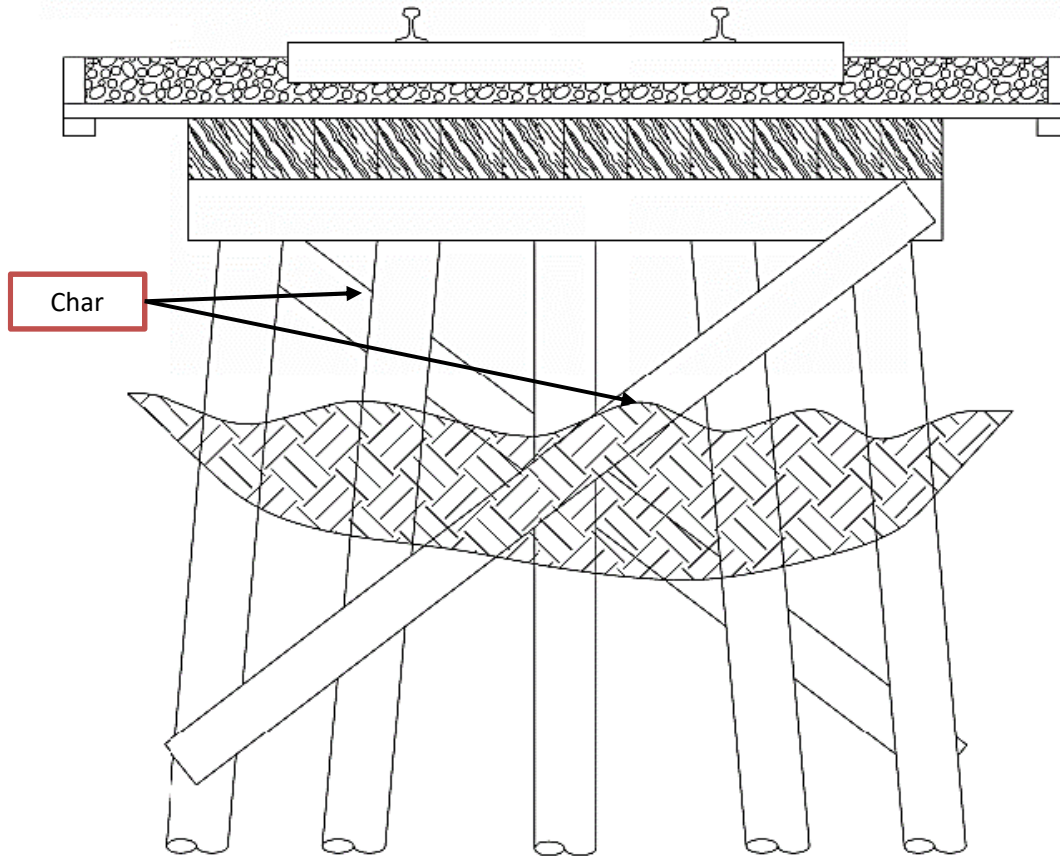
Date Inspected:

12/11/2019



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: 4'	Bridge No.	415.82
DETAILS - BENT NUMBER: 2			Span Length:	7'-7"



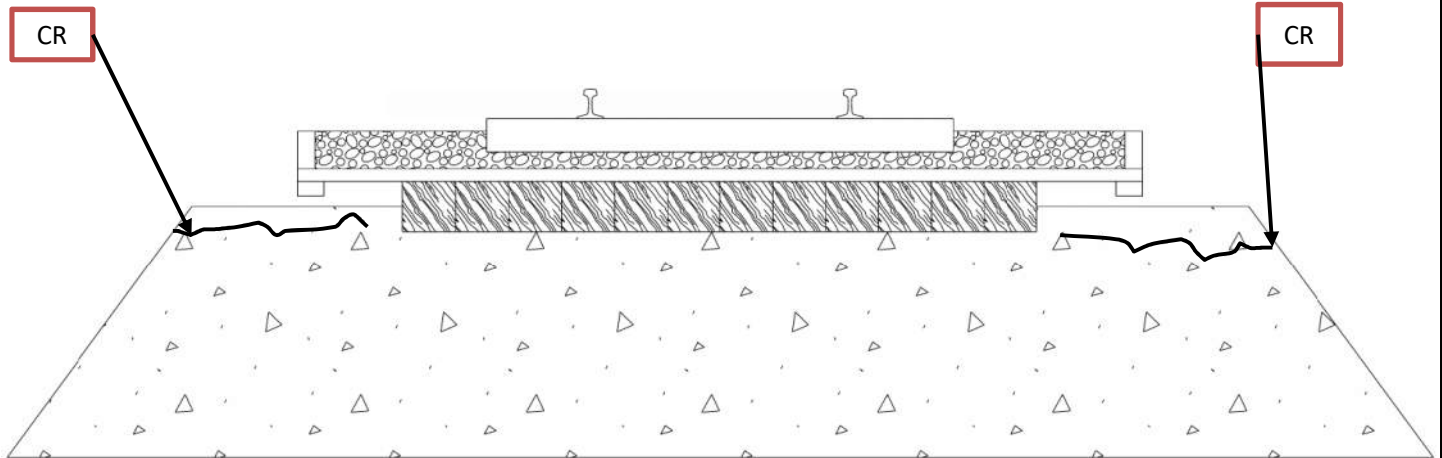
**Description: Looking East - (12) 11-3/4"x11-3/4" Timber Stringers, Timber Bent**

**Remarks:**

1. Char - Charing is approximately 1/4"
2. Sway braces have been burned and broken. Soft and hollow, no longer functional - see photo
3. No bearing on cap, shims not functional

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>4'</b>	Bridge No.	<b>415.82</b>
DETAILS - ABUT NUMBER: <b>3</b>		Span Length:	



**Description: Looking East - (12) 11-3/4"x11-3/4" Timber Stringers, Concrete Abutment**

**Remarks:**

1. Charing is approximately 1/4"
2. CR - Stringer retainer cracked both sides



## Inspection Photos



**415.82 Looking East**



**415.82 Looking West**



## Inspection Photos



**415.82 Looking North**



**415.82 Looking South**



## Inspection Photos



**415.82 North ballast retainer leaning**



**415.82 Abutment stringer retainers cracked – typical all 4 corners**



## Inspection Photos



**415.82 Wingwalls undermined – typical all 4 corners**



**415.82 Failed sway brace – pier 2**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 415.92  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream \_\_\_\_\_ Overpass \_\_\_\_\_ Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 11-Dec-19 Time 3:10 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballasted Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: \_\_\_\_\_  
TIES Type: Timber Tie Condition Rating: 3  
 Notes: Poor condition  
BALLAST Depth: 8" Ballast Condition Rating: 3  
 Notes: Holes in ballast  
DECK PLANKS Type: Timber Condition Rating: 3 Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 3  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 15'-11" Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle X Girder \_\_\_\_\_  
 Num Spans 2 Approx. Span Lengths 7'-7"  
 Notes: Ballast Deck Timber Trestle - Built 1897

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent: 5 Type Timber Notes Bent #2  
 Abutment: 3 Type Concrete Notes Abut #1 & #3  
 Wingwalls: 3 Type Concrete Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth \_\_\_\_\_ Scour Evidence \_\_\_\_\_ Moving Water \_\_\_\_\_  
 Notes \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## OVERALL RATING

High Priority X Medium Priority \_\_\_\_\_ Low Priority \_\_\_\_\_

MAINLINE/SUBDIVISION: VCTC

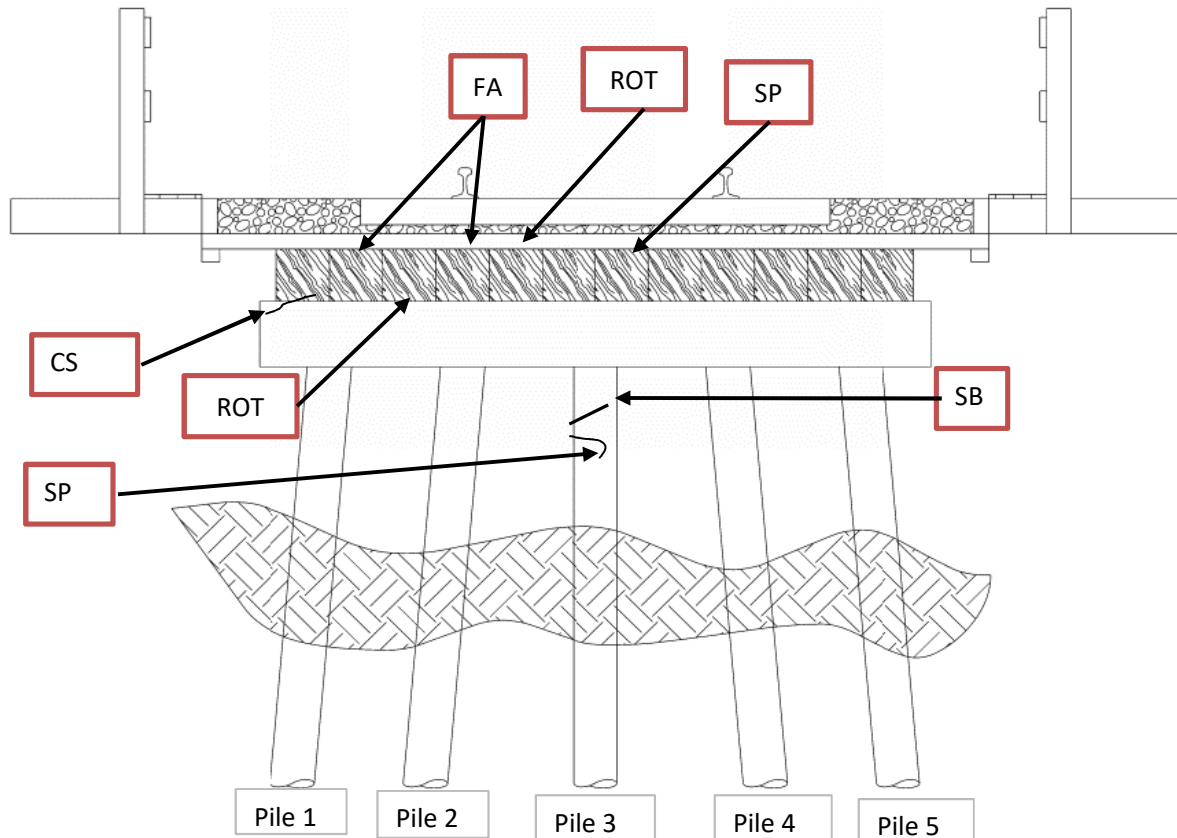
BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	2	Alignment:	Tangent	Vert. Clear:	3'-8"	Bridge No.	415.92
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Drainage	Overall Length:	15'-11"
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	5	S01 Stringers		3	B08 Sash Brace		N/A
E02 Channel	5	S02 Line Bolts		N/A	B09 Long Brace		N/A
E03 Approach	5	S03 Bearing @ Cap		3	B10 Cap Long Brace		N/A
<b>DECK</b>		<b>BENTS</b>				<b>MISC. OTHER</b>	
D01 Ties (OD only)	N/A	B01 West Abutment & Wingwalls		3	M01		
D02 Ties Spacers	N/A	B02 East Abutment & Wingwalls		3	M02		
D03 Rail	3	B03 Caps		5	M03		
D04 Ballast Floor	3	B04 Pier		5	M04		
D05 Ballast Retainer	5	B05 Framed Bents		N/A	Overall Rating:		3
D06 Footwalk	3	B06 Posts		N/A			
D07 Handrail	3	B07 Cross Braces		N/A			
<b>COMMENTS</b>							
Reference	Remark						
Wingwall	All four wingwalls are failing						
Ballast	There is a hole in ballast planks, low ballast across bridge - see photo						
Walkway	Uneven surface - tripping hazard						
Handrail	Leaning all 4 corners - see photos						
Headwall	Stringer retaining headwall is cracked at both abutments						
Debris	Debris under bridge						
Wingwall	NW wingwall leaking - see photo.						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
	Replace structure with 3-4 24" or 30" CMP. Needs hydrology study.						
D03	Replace rail with heavier section as tonnage dictates						
D04, B	Ballast planks beginning to fail. Monitor and replace if maintained as a bridge						
D06, A	Walkway has uneven surface and is a tripping hazard						
S03, B	Shim helper bents to all stringers						
S01, A	Replace failed and rotten stringers						
D07, B	Repair handrail						
B01, B02, B	Repair wingwalls						
	Recommend a quarterly inspection (3 months) to assure the bridge is functional until repairs are made along with a slow order of 10 mph be placed on the bridge.						
<b>CONDITION RATING</b>					<b>PRIORITY</b>		
1. Failed ( may require bridge out of service )					A. Immediately		
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.					B. Within 1 year		
					C. Within 3 years		
3. Satisfactory but with exceptions: Slow order may be required.					D. Within 5 years		
4. Worker Safety: items such as ( handrail, footwalk, etc.)					E. Within 10 years		
5. Good with minor exceptions					M. Monitor, Condition may change & raise priority		
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:		12/11/2019



BRIDGE INSPECTION REPORT --- TIMBER BENT					
Span:	1	Alignment:	TANGENT	Vert. Clear:	3'
				Bridge No.	415.92
DETAILS - ABUT NUMBER: 1				Span Length:	7'-7"
<b>Description:</b> Looking West - (12) 11-3/4"x11-3/4" Timber Stringers, Concrete Abutment					
<b>Remarks:</b>					
1. Rot - Stringers #2, #3 and #5 are rotten					
2. Span #1 is blocked up: assumed to support failing stringers					
3. CR - Stringer retaining headwall is broken - see photo					
4. SP - Stringer #6 split					
5. FA - Failure of stringer #4 causing ballast loss					
6. HW - Stringer 5 and 10 are hollow					
7. CK - Stringer 12 deep checking - see photo.					
8. SP - Stringer #7 split at helper					
9. HW - Stringer #9 hollow at helper					
Inspected By:		Joseph Holste, PE		Date Inspected:	12/11/2019

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: 3'	Bridge No.	415.92
DETAILS - BENT NUMBER: 2			Span Length:	7'-7"



**Description: Looking East - (12) 11-3/4"x11-3/4" Timber Stringers, Timber Bent**

**Remarks:**

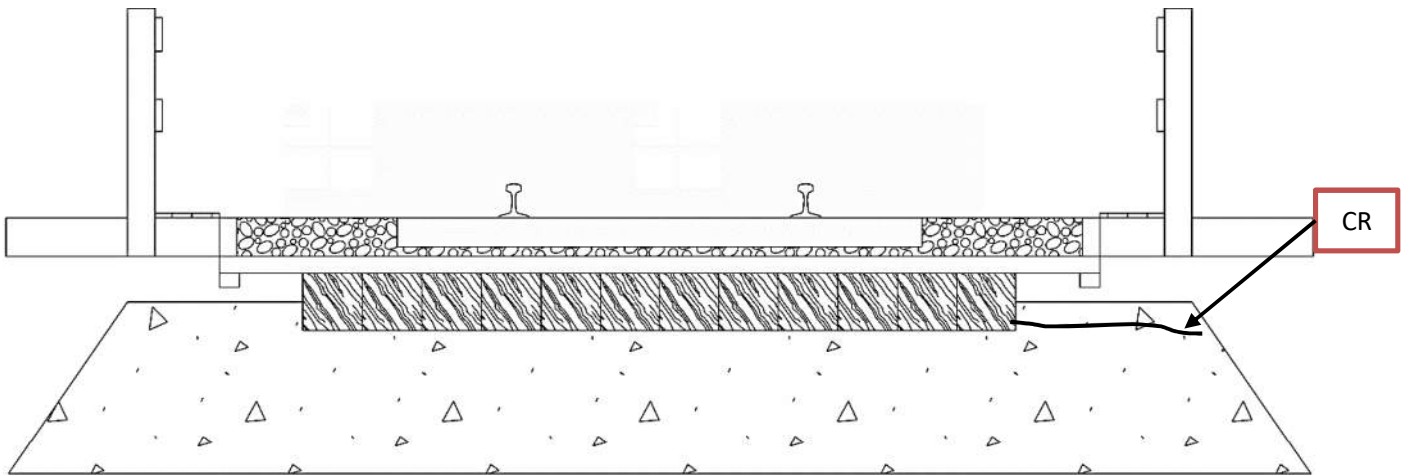
1. Blocking pushed down, no longer supporting stringers. Shim tight against stringers
2. FA - Stringer #4 failed
3. ROT - Stringer #5 rotten and hollow
4. FA - Stringer #2 failed at pier 2 - see photo
5. ROT - Stringer #3 rotten
6. SP - Stringer #7 split
7. Stringers #1, #2, #3, and #4 not bearing on helper bent
8. CS - Bent cap split
9. SP, SB - Pile 3 split and wrapped with steel band

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear:	Bridge No.	<b>415.92</b>
DETAILS - ABUT NUMBER: <b>3</b>		Span Length:	



**Description: Looking East - (12) 11-3/4"x11-3/4" Timber Stringers, Concrete Abutment**

**Remarks:**

1. Ballast leak, span #2, right side - see photo
2. CR - Wingwall cracked - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/11/2019
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## Inspection Photos



**415.92 Looking East**



**415.92 Looking West**



## Inspection Photos



**415.92 Looking North**



**415.92 Looking South**



## Inspection Photos



**415.92 Handrail leaning – all 4 corners**



**415.92 Ballast leak – Span 2 north side**



## Inspection Photos



**415.92 NW wingwall leaking**



**415.92 Abutment stringer retainer cracked- typical NW, SW, SE**

## Inspection Photos



**415.92 Helper bents not shimmed to stringers – both spans**



**415.92 Stringer 5 rotten, Stringer 2 & 4 failed, Span 2**



## Inspection Photos



**415.92 Stringer 12 deep checking**

## Culvert Inspection Form

DIVISION	Santa Paula	CULVERT NO.	MP 416.21	TYPE OF CULVERT	(3) 4'X8' CBC
BRANCH	Santa Paula	NO. OF SPANS	3	Length of Culvert	37'
LOCATION	Santa Paula, CA				
OVERALL RATING	WATERWAY		NO. OF TRACKS		YEAR BUILT
5	DRAINAGE		1		2018

ITEM	GENERAL	CONDITION RATING	REMARKS
1	Action Under Trains	7	No Trains
2	Embankment	6	
3	Track Over Culvert	6	
	<b>STREAM CONDITIONS</b>		
4	Alignment	6	
5	Channel	6	
6	Paving Through Culvert	N/A	
7	Rip Rap	N/A	
8	Sheet Piling Protection	N/A	
9	Cleanliness	CLEAN	
	<b>MASONRY</b>		
10	Abutment	N/A	
11	Arch Ring	N/A	
12	Headwalls	6	
13	Wingwalls	6	
14	Foundations	N/A	
15	Roofs	6	
16	Walls	6	
17	Piers	N/A	
18	Parapet Walls	N/A	
19	Pointing	N/A	
20	Cradles	N/A	
21	Previous Gunite	N/A	
22	Slab	6	
23	Pipes-Metal/Concrete	N/A	

Remarks:

1. Concrete spall at joint on underside of top slab, cell 3. Rebar exposed. See photo
2. All interior joints need to be grouted
3. Soil cover above structure is between 3' to 4'
4. Needs handrail along headwalls

NOTE ANY SCOUR, SETTLEMENT, DISTRESS, SLIDE FAILURE, BACKWATER OR OBSTRUCTION.

CONDITION RATINGS	PRIORITY
1. Failed ( may require bridge out of service )	A. Immediately
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.	B. Within 1 year
3. Satisfactory but with exceptions: Slow order may be required.	C. Within 3 years
4. Worker Safety: items such as ( handrail, footwalk, etc.)	D. Within 5 years
5. Good with minor exceptions	E. Within 10 years
6. New Bridge	M Monitor, Condition may change & raise priority
7. Not inspected: Reason stated	

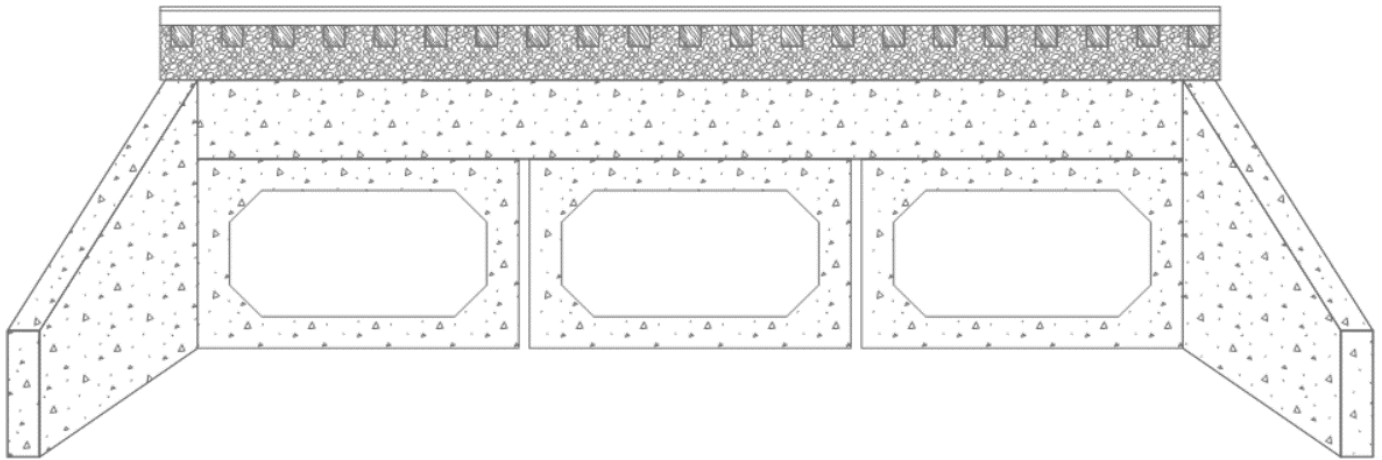
TYPE OF CULVERTS:	PIPE - CAST IRON STEEL CONCRETE	ARCH - STONE CONCRETE BRICK	BOX - STONE <b>CONCRETE</b> RAIL TOP
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Inspector:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: **VCTC**

CULVERT INSPECTION REPORT							
Spans:	3	Waterway	DRAINAGE	Type of Culvert	(3) 4'X8' CBC	Bridge No.	MP 416.21
DETAILS - ABUT NUMBER: 1 & 2						Length of Culvert:	37'



**Description: (3) 4'X8' Concrete Box Culvert**

**Remarks:**

1. Joints need to be grouted
2. Concrete spall on cell 3 underside of top slab. Rebar exposed. See photo.

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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## Inspection Photos



**416.21 Looking East**



**416.21 Looking West**



## Inspection Photos



**416.21 Looking North**



**416.21 Looking South**

## Inspection Photos



**416.21 Cell 3 concrete spall on underside of top slab. Rebar exposed**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 416.32  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream X - Haun Creek Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 8:40 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open Number of Tks 1 Visual Condition Rating: 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: West approach is low, rail is horizontally kinked at west abutment  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth:          Ballast Condition Rating:           
 Notes:           
DECK PLANKS Type:          Condition Rating:          Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel X  
 Bridge: Steel 45' Timber          Concrete           
 Type: Truss          Deck Girder          Through           
 Trestle          Girder           
 Num Spans 3 Approx. Span Lengths 14'-6", 15', 14'-6"  
 Notes: Open Deck W/ Timber Ties - Built 2018

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Timber Notes Bent #2 & #3  
 Abutment: 5 Type Stone Notes Abut #1 & #4  
 Wingwalls: 5 Type Stone Notes Material loss around abutments  
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth          Scour Evidence          Moving Water no  
 Notes         

## OVERALL RATING

High Priority          Medium Priority          Low Priority X

MAINLINE/SUBDIVISION: VCTC

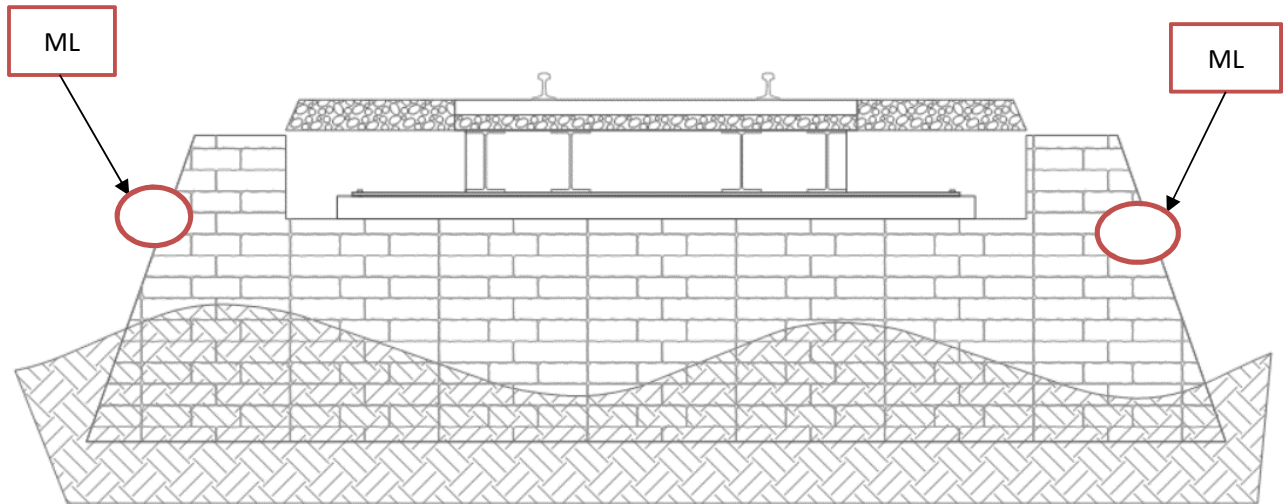
BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	3	Alignment:	Tangent	Vert. Clear:	7' +/-	Bridge No.	416.32
No. of Tks:	1	Deck Type:	Open Deck	Br. Over:	Creek	Overall Length:	45'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	5	S01 Stringers	5	B08 Sash Brace		5	
E02 Channel	3	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	5	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Abutment	5	M01			
D02 Ties Spacers	N/A	B02 East Abutment	5	M02			
D03 Rail	3	B03 Caps	5	M03			
D04 Ballast Floor	N/A	B04 Piles	5	M04			
D05 Ballast Retainer	3	B05 Framed Bents	N/A	Overall Rating:		5	
D06 Footwalk	N/A	B06 Posts	N/A				
D07 Handrail	N/A	B07 Cross Braces	5				
<b>COMMENTS</b>							
Reference	Remark						
Handrail	No handrail						
Wingwall	Erosion around wingwalls. See photo						
Ballast	Ballast retainer rotated at abutment 1						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E03, B	Raise and straighten west approach						
D03	Replace rail with heavier section as tonnage dictates						
E02, A	Bridge has silted in more, channel needs cleaning to prevent water from hitting stringers						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
3. Satisfactory but with exceptions: Slow order may be required.				C. Within 3 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				D. Within 5 years			
5. Good with minor exceptions				E. Within 10 years			
6. New Bridge				M. Monitor, Condition may change & raise priority			
7. Not inspected: Reason stated				-			
Inspected By:		Joseph Holste, PE		Date Inspected:		12/12/2019	



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STONE ABUTMENT

Span: 1	Alignment: TANGENT	Vert. Clear: 7'	Bridge No.	416.32
DETAILS - ABUT NUMBER: 1			Span Length:	14'-6"



**Description: Looking West - (4) Steel Stringers, Stone Abutment**

### Remarks:

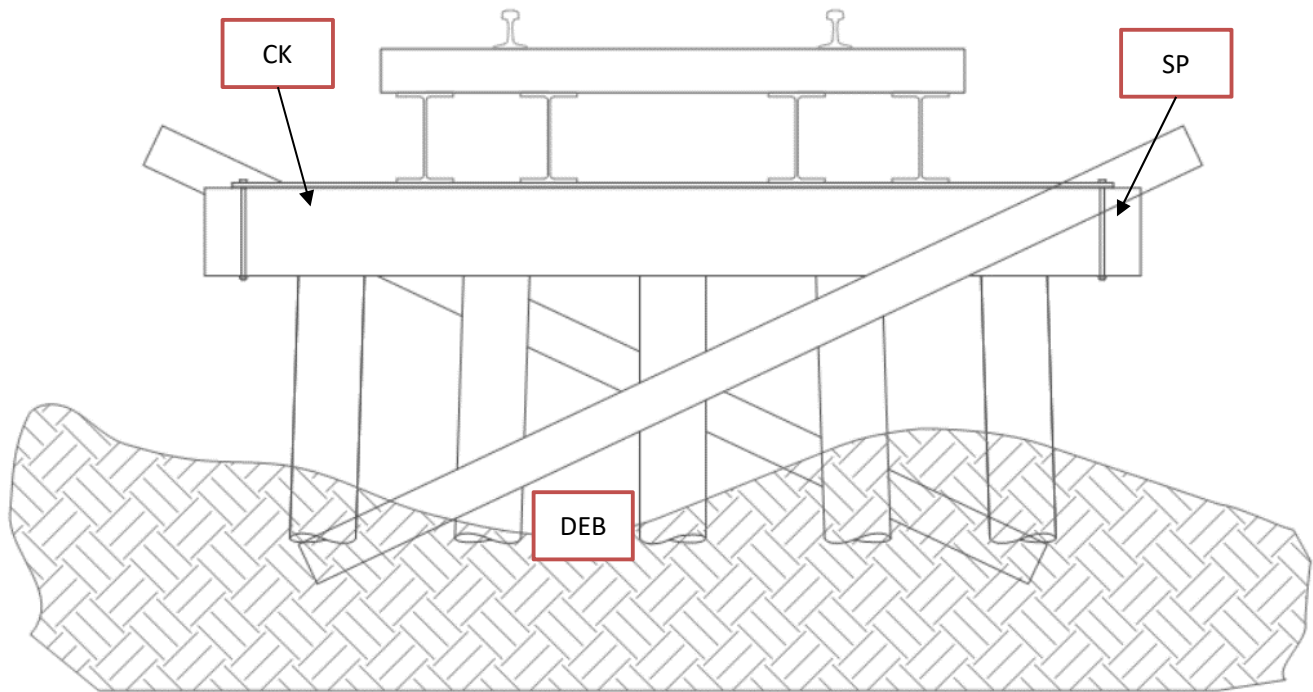
1. ML - Material loss north and south sides of wingwalls - see photos
2. Backwall leaning against tie

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER BENT

Span: 2	Alignment: TANGENT	Vert. Clear: 7'	Bridge No.	416.32
DETAILS - BENT NUMBER: 2			Span Length:	15'



**Description: Looking East - (4) Steel Stringers, Timber Bent**

### Remarks:

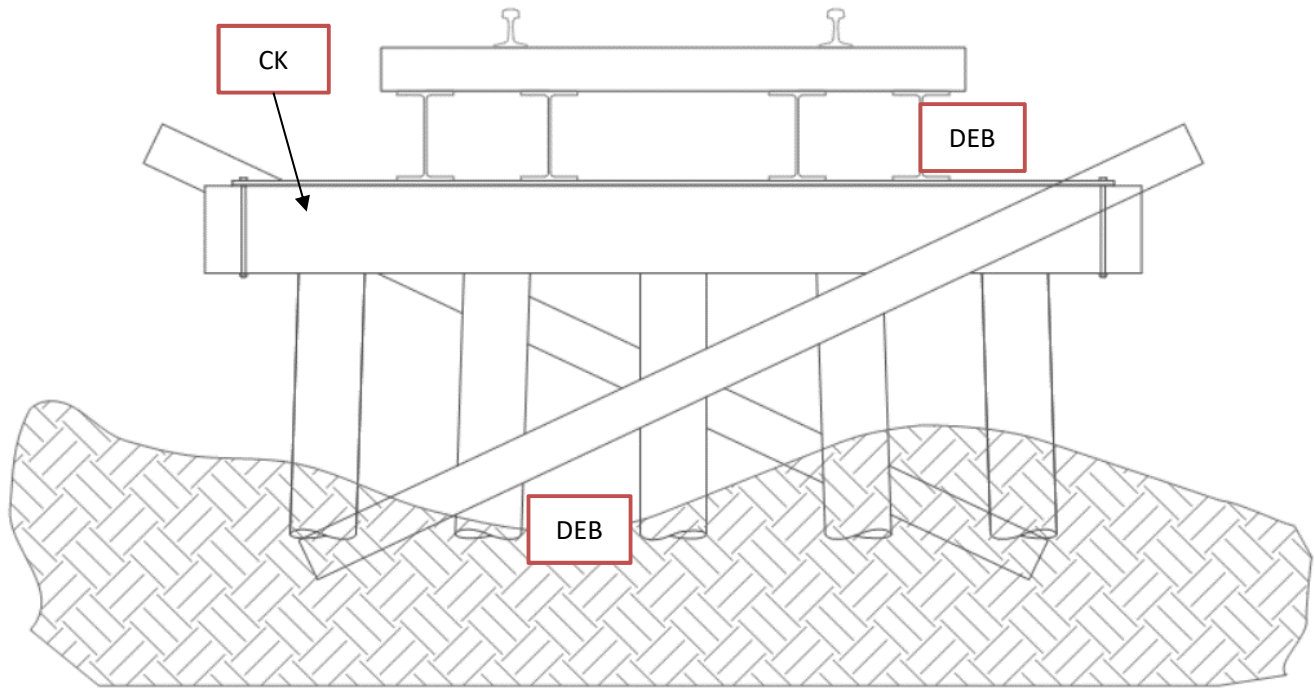
1. CK - Checking in cap
2. SP - Vertical split in cap - see photo
3. DEB - Debris on piles - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 3	Alignment: TANGENT	Vert. Clear: 7'	Bridge No.	416.32
DETAILS - BENT NUMBER: 3			Span Length:	14'-6"



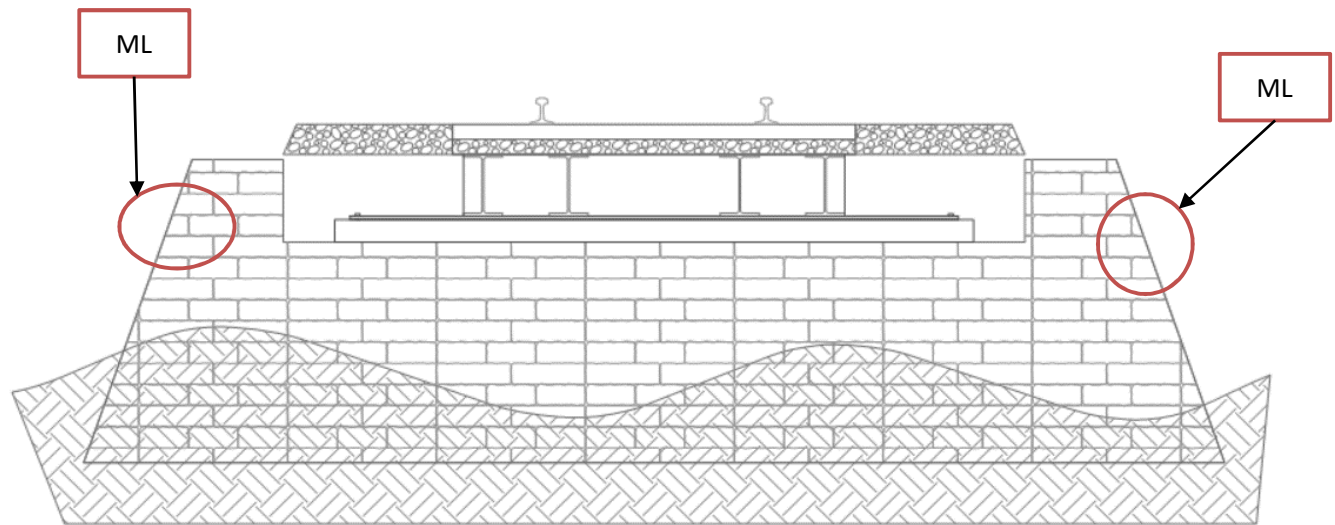
**Description: Looking East - (4) Steel Stringers, Timber Bent**

**Remarks:**

1. CK - Checking in cap
2. DEB - Debris on beam bottom flanges
3. DEB - Debris on piles

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STONE ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>5'</b>	Bridge No.:	<b>416.32</b>
DETAILS - ABUT NUMBER: <b>4</b>		Span Length:	<b>14'-6"</b>



**Description: Looking East - (4) Steel Stringers, Stone Abutment**

**Remarks:**

1. ML - Material loss north and south sides of wingwalls - see photos

## Inspection Photos



**416.32 Looking East**



**416.32 Looking West**



## Inspection Photos



**416.32 Looking North**



**416.32 Looking South**



## Inspection Photos



**416.32 Channel condition. Looking Upstream**



**416.32 Channel condition. Looking Downstream**



## Inspection Photos



**416.32 Erosion around wingwalls (typ.)**



**416.32 Vertical split in cap – Pier 2**



## Inspection Photos



**416.32 Debris on piles – Pier 2**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 416.63  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream \_\_\_\_\_ Overpass \_\_\_\_\_ Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 9:00 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Both approaches are low, rail joints misaligned  
TIES Type: Timber Tie Condition Rating: 5  
 Notes: \_\_\_\_\_  
BALLAST Depth: \_\_\_\_\_ Ballast Condition Rating: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
DECK PLANKS Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_ Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel 12' Timber \_\_\_\_\_ Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder X Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ Girder \_\_\_\_\_  
 Num Spans 1 Approx. Span Lengths 11'-3"  
 Notes: Rolled Steel I-beams

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Abutment: 5 Type Timber Notes Abut #1 & #2  
 Wingwalls: 5 Type Timber Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth \_\_\_\_\_ Scour Evidence Yes Moving Water No  
 Notes 2' Scour at upstream culvert - see photo

## OVERALL RATING

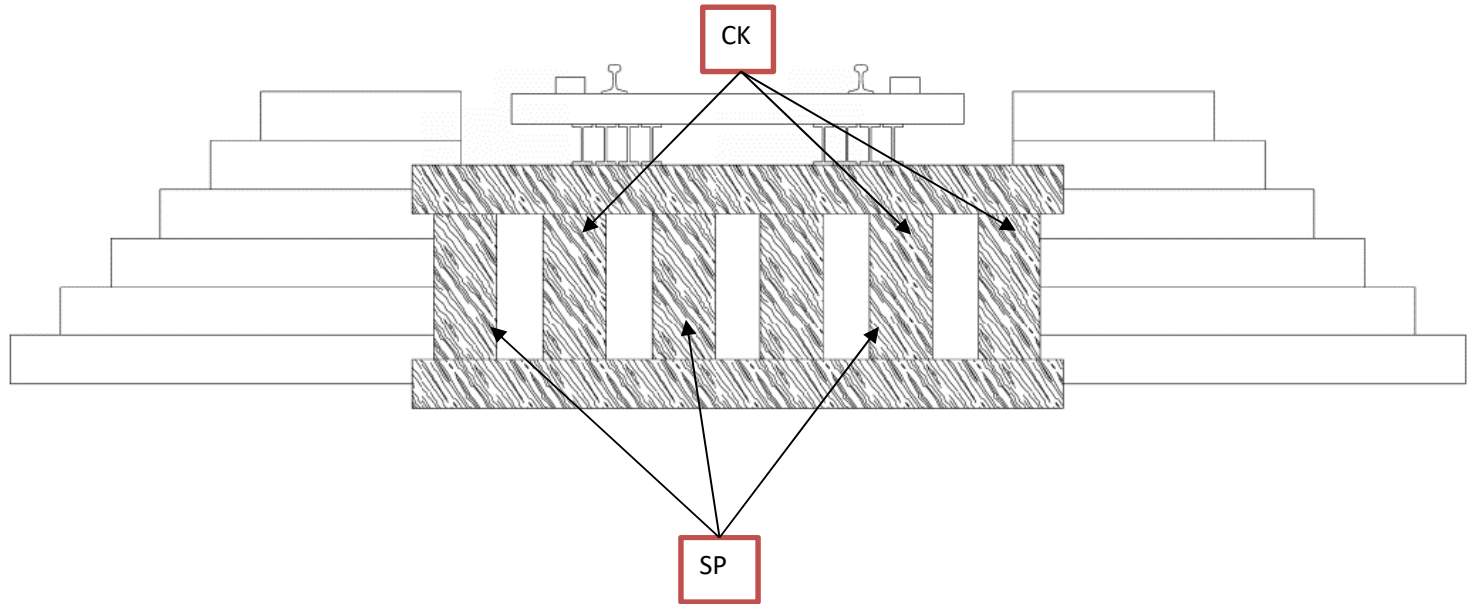
High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority X



BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	1	Alignment:	Tangent	Vert. Clear:	4'	Bridge No.	416.63
No. of Tks:	1	Deck Type:	Open	Br. Over:	Drainage	Overall Length:	12'
ENVIRONMENT		STRINGERS			B08 Sash Brace	N/A	
E01 Scour	5	S01 Stringers		5	B09 Long Brace	N/A	
E02 Channel	5	S02 Line Bolts		5	B10 Cap Long Brace	N/A	
E03 Approach	3	S03 Bearing @ Cap		5	B11 Shims	N/A	
DECK		BENTS			MISC. OTHER		
D01 Ties (OD only)	5	B01 West Backwall		3	M01		
D02 Ties Spacers	5	B02 East Backwall		3	M02		
D03 Rail	3	B03 Caps		5	Both approaches are low, ra		
D04 Ballast Floor	N/A	B04 Piles		5	M04		
D05 Ballast Retainer	N/A	B05 Framed Bents		5	Overall Rating:	5	
D06 Footwalk	N/A	B06 Posts		5			
D07 Handrail	N/A	B07 Cross Braces		N/A			
COMMENTS							
Reference	Remark						
	No handrail, No walkway						
	Guard ties rotten and broken - see photo						
Wingwalls	Erosion at all wingwalls						
MAINTENANCE RECOMMENDATIONS							
Priority	Description						
E03, B	Raise approaches						
D03	Replace rail as appropriate for tonnage						
B01, B02	Repair backwall locations that are leaking						
CONDITION RATING					PRIORITY		
1. Failed ( may require bridge out of service )					A. Immediately		
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.					B. Within 1 year		
					C. Within 3 years		
3. Satisfactory but with exceptions: Slow order may be required.					D. Within 5 years		
4. Worker Safety: items such as ( handrail, footwalk, etc.)					E. Within 10 years		
5. Good with minor exceptions					M. Monitor, Condition may change & raise priority		
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:	12/12/2019	

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 4'	Bridge No.	416.63
DETAILS - ABUT NUMBER: 1			Span Length:	11'-3"



**Description: Looking West - (8) Steel Stringers, Timber Abutment**

**Remarks:**

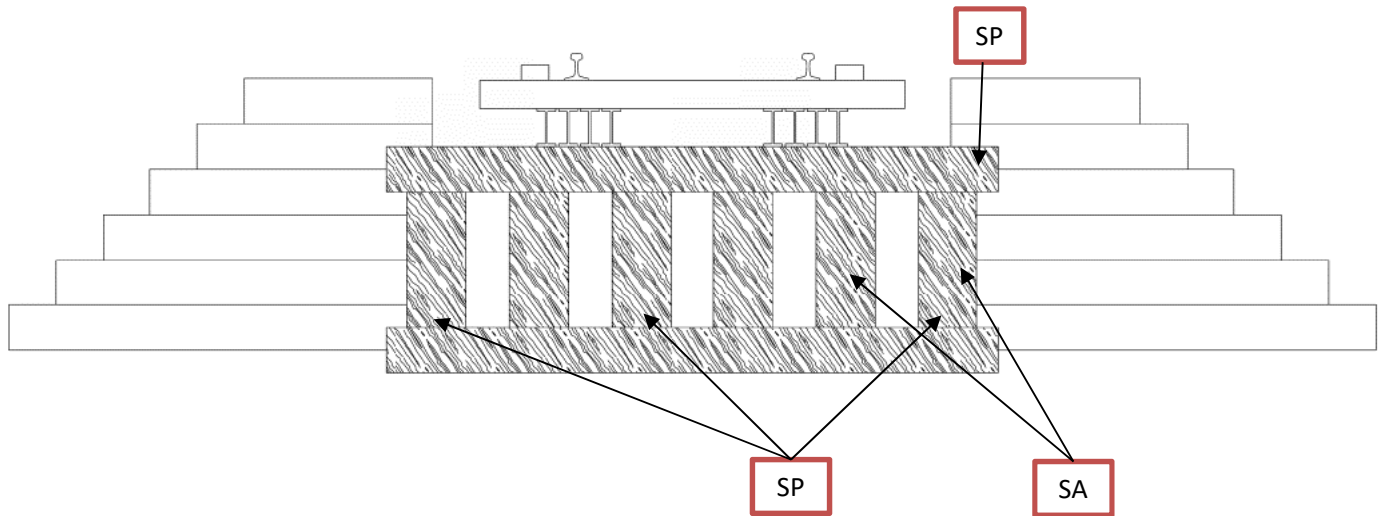
1. Minor surface rust on stringers
2. Backwall leaning - see photo
3. SP - Columns #2, #4, #6 split
4. Backwall rotting/leaking material at bottom - see photo
5. CK - Columns #1, #2, #5 deep checking

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>4'</b>	Bridge No.	<b>416.63</b>
DETAILS - ABUT NUMBER: <b>2</b>		Span Length:	



**Description: Looking East - (8) Steel Stringers, Timber Abutment**

**Remarks:**

1. SP - Column #1, #3, #6 split
2. Backwall rotting/leaking material at bottom
3. Backwall leaning, major deflection, goes from 3" space between cap and backwall at beams to 1" space at end of cap
4. SP - Cap vertical split

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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## Inspection Photos



**416.63 Looking East**



**416.63 Looking West**



## Inspection Photos



416.63 Looking North



416.63 Looking South



## Inspection Photos



**416.63 2' Scour at upstream culvert**



**416.63 Guard ties rotten and broken**



## Inspection Photos



**416.63 Backwall leaning - Abutment 1 & 2**



**416.63 Split pile 6 at Abutment 1, typ multiple locations**

## Inspection Photos



**416.63 Backwall rotting/leaking material at bottom (Typ.)**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 417.24  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream X Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 9:25 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballasted Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Horizontal rail misalignment at west side of bridge, dip at road crossing  
TIES Type: Timber Tie Condition Rating: 3  
 Notes:           
BALLAST Depth: 11" Ballast Condition Rating: 5  
 Notes:           
DECK PLANKS Type: Timber Condition Rating: 5 Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 3  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber 75' Concrete           
 Type: Truss          Deck Girder          Through           
 Trestle X Girder           
 Num Spans 5 Approx. Span Lengths 15'  
 Notes: Ballast Deck Timber Trestle

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent: 3 Type Timber Notes Bent #2, #3, #4 & #5  
 Abutment: 5 Type Timber Notes Abut #1 & #6  
 Wingwalls: 3 Type Timber Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth          Scour Evidence Minor Moving Water No  
 Notes Lots of debris and large rocks under bridge

## OVERALL RATING

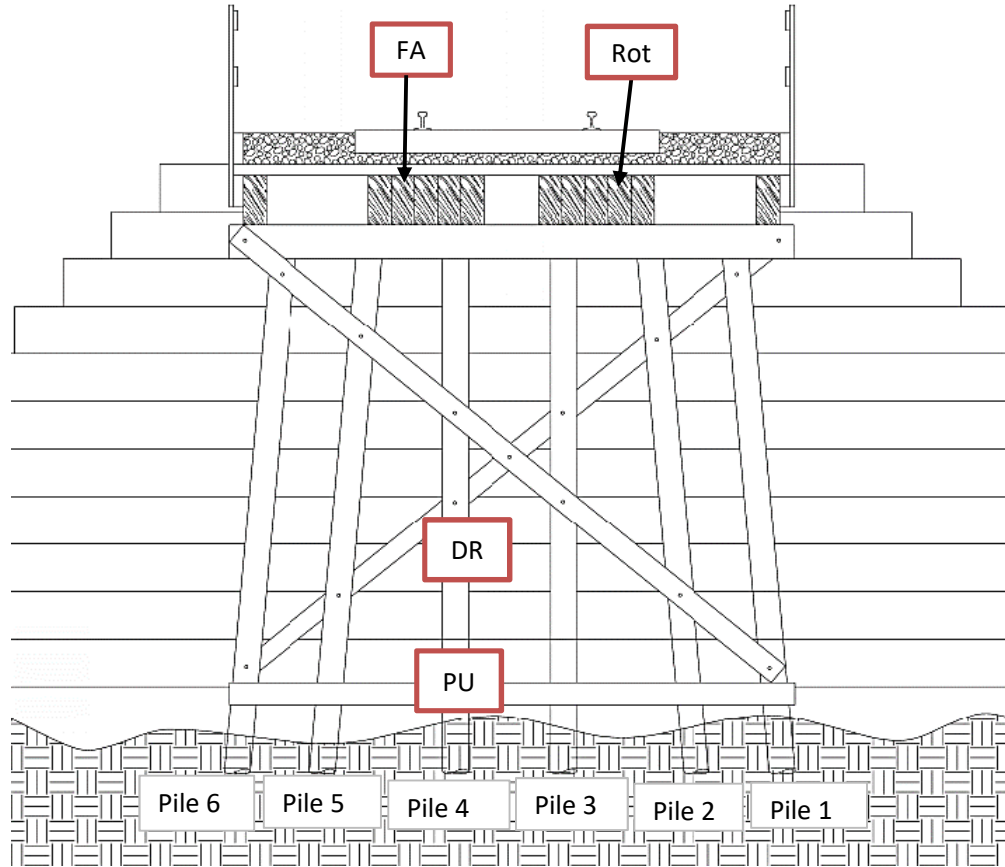
High Priority X Medium Priority          Low Priority

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	5	Alignment:	Tangent	Vert. Clear:	8'	Bridge No.	417.24
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Stream	Overall Length:	75'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	3	S01 Stringers		3	B08 Sash Brace		5
E02 Channel	3	S02 Line Bolts		N/A	B09 Long Brace		5
E03 Approach	3	S03 Bearing @ Cap		5	B10 Cap Long Brace		N/A
<b>DECK</b>		<b>BENTS</b>				<b>MISC. OTHER</b>	
D01 Ties (OD only)	N/A	B01 West Backwall		3	M01 West Wingwall		3
D02 Ties Spacers	N/A	B02 East Backwall		3	M02 East Wingwall		3
D03 Rail	3	B03 Caps		5	M03		
D04 Ballast Floor	3	B04 Piles		3	M04		
D05 Ballast Retainer	3	B05 Framed Bents		N/A	Overall Rating:		3
D06 Footwalk	5	B06 Posts		N/A			
D07 Handrail	4	B07 Cross Braces		5			
<b>COMMENTS</b>							
Reference	Remark						
Wingwall	Wingwall on east end, southeast side is failing, northeast end wingwall undermined. Wingwall on west end, northwest side is failing. SE Erosion around wingwall.						
Handrail	Handrail and posts are in very poor condition, top rail rotated, missing midrail on north and south sides - see photo						
Utility	Utility crossing 30' to right above and below ground						
Backwall	Abutment 1 backwall buldging and rotten. Abutment 6 backwall rotten and leaning						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
A	Remove vegetation under and around bridge and on tracks						
A	Replace bad track ties						
E01, E02, B	Clear boulders, trees and other debris from under bridge to allow maximum flow and prevent damage to pile						
D03	Replace 80 lb rail as required for tonnage						
D04, A	Replace ballast planks with stringer replacement. Monitor condition						
S01, A	Replace bad stringers.						
B01, B02, B/C	Repair Backwalls						
E01, E02, B	Repair erosion around wingwalls						
E03, B	Correct rail alignment						
	Recommend a quarterly inspection (3 months) to assure the bridge is functional until repairs are made along with a slow order of 10 mph be placed on the bridge.						
<b>CONDITION RATING</b>					<b>PRIORITY</b>		
1. Failed ( may require bridge out of service )					A. Immediately		
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.					B. Within 1 year		
					C. Within 3 years		
3. Satisfactory but with exceptions: Slow order may be required.					D. Within 5 years		
4. Worker Safety: items such as ( handrail, footwalk, etc.)					E. Within 10 years		
5. Good with minor exceptions					M. Monitor, Condition may change & raise priority		
6. New Bridge					-		
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE			Date Inspected:		12/12/2019

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	417.24
DETAILS - ABUT NUMBER: 1			Span Length:	14'



**Description: Looking West - (12) 8"x17.5" Timber Stringers, Timber Abutment**

Remarks:

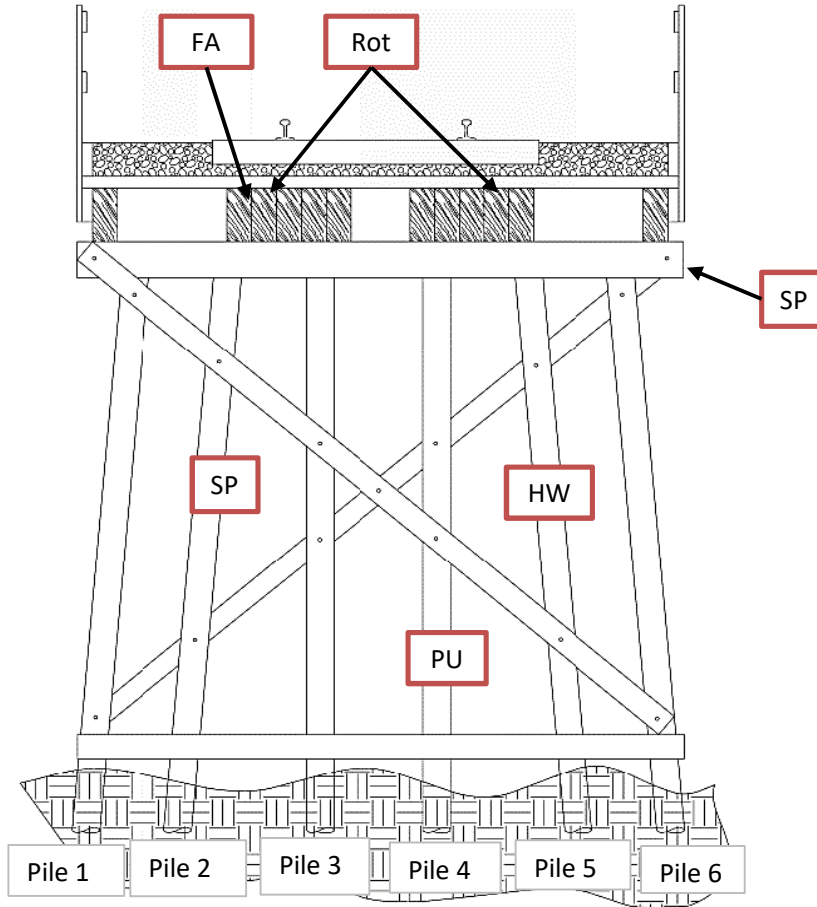
1. DR, PU - Pile #4 drilled, small center, punky material (2014)
2. Rot - Stringer #10 is rotten
3. Piles 2, 4, & 5 sound hollow
4. Backwall bulging and rotten near bottom, ballast coming through abutment - see photo
5. FA - Stringer #3 failed - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: 8'	Bridge No.	417.24
DETAILS - BENT NUMBER: 2			Span Length:	15'



**Description: Looking East - (12) 8"x17.5" Timber Stringers, Timber Bent**

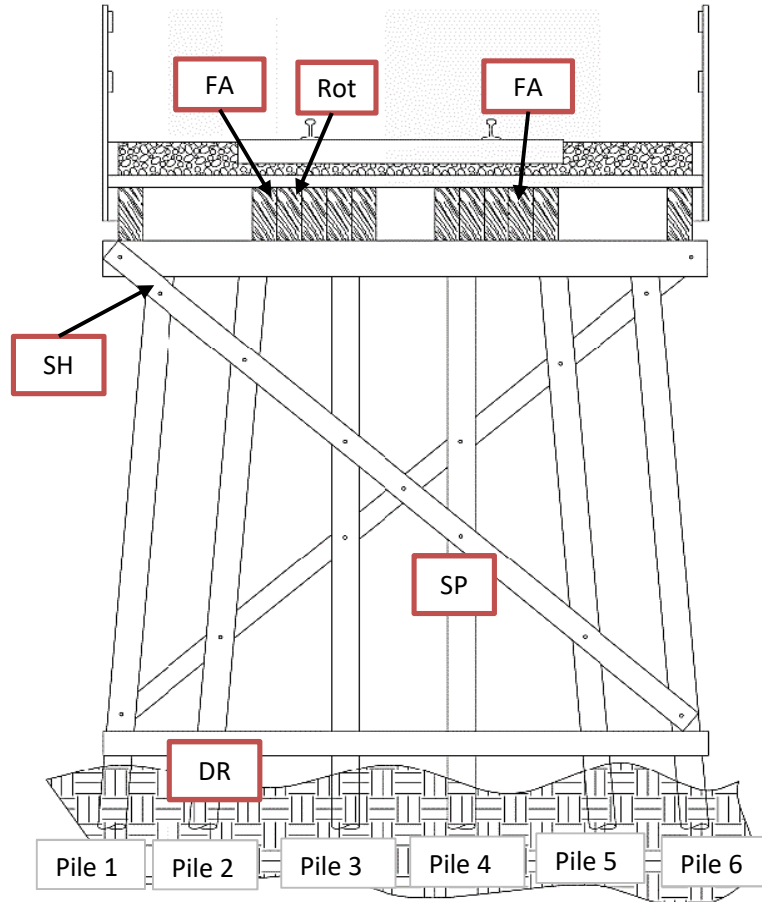
Remarks:

1. Rot - Stringers #3 and #10 are rotten
2. PU - Pile #4 is punky
3. SP - Cap is split - see photo
4. SP - Pile #2 is split - see photo
5. HW - Pile 5 is hollow
6. FA - Stringer #2 has 3/8" vertical deflection and failed

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 3	Alignment: TANGENT	Vert. Clear: 8'	Bridge No.	417.24
DETAILS - BENT NUMBER: 3			Span Length:	15'



**Description: Looking East - (12) 8"x17.5" Timber Stringers, Timber Bent**

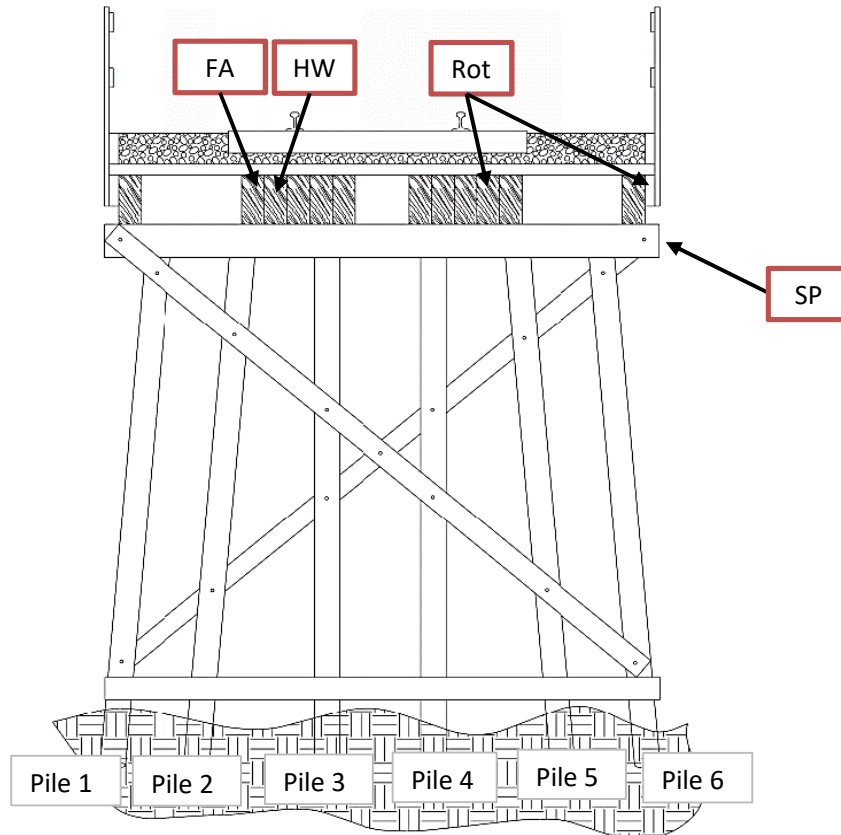
Remarks:

1. SP - Pile #4 has vertical split
2. DR - Pile #2 has 3" shell (2014)
3. FA - Stringer #2 failed and crushing at bent - see photo
4. SH - Pile #1 is shimmed
5. Span #2 sway brace is covered in dirt on left side
6. Span #3 sash brace is covered in dirt and debris - see photo
7. 3' scour at bent - see photo
8. Rot - Stringer #3 is rotten with 3" hole depth - see photo
9. FA - Stringer #10 failed - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 4	Alignment: TANGENT	Vert. Clear: 8'	Bridge No.	417.24
DETAILS - BENT NUMBER: 4			Span Length:	15'



**Description: Looking East - (12) 8"x17.5" Timber Stringers, Timber Bent**

**Remarks:**

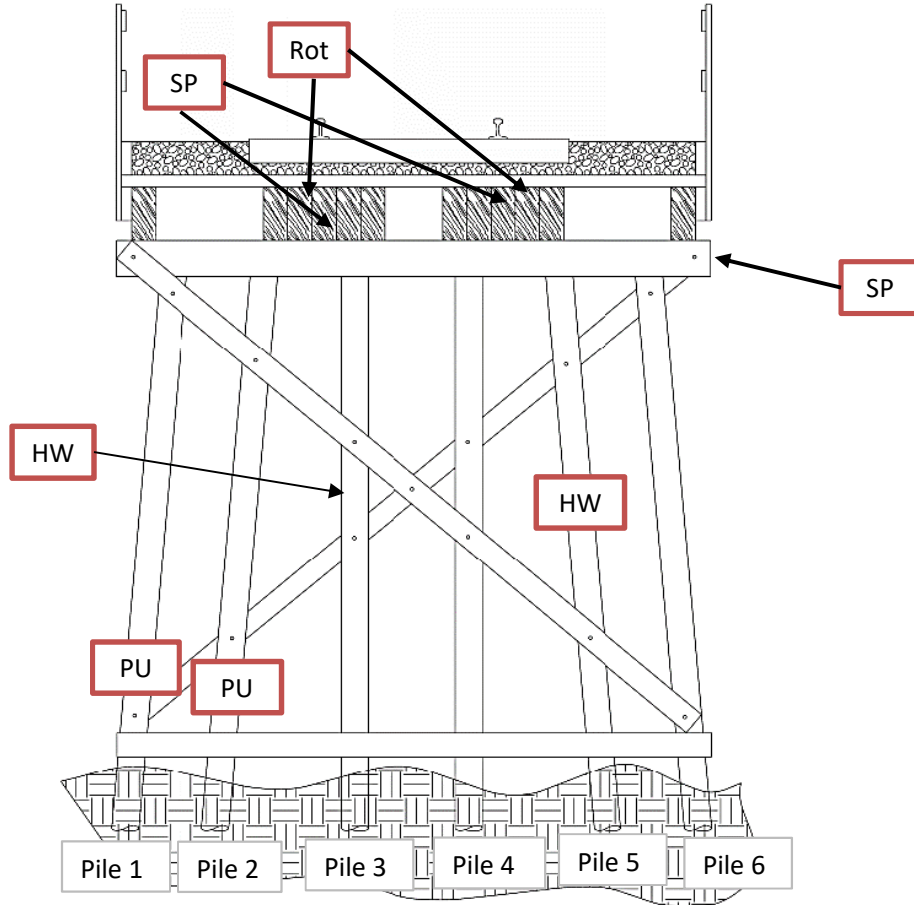
1. Rot - Stringers #10 and #12 are rotten
2. Debris at base of Bent #4, 4' scour
3. Span #4 sway brace buried in dirt on right side
4. Pile 2 is hollow
5. SP - Cap is split - see photo
6. Pile #6 impact damage
7. 3 ft of scour on west side
8. Debris built up on east side
9. Stringer #10 deflected 1/2" at midspan
10. Stringers #6 and #7 rotated inward
11. HW - Stringer #3 is hollow
12. FA - Stringer #2 is failed and rotated 1/2" at bent #4

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 5	Alignment: TANGENT	Vert. Clear: 8'	Bridge No.	417.24
DETAILS - BENT NUMBER: 5			Span Length:	14'-6"



**Description: Looking East - (12) 8"x17.5" Timber Stringers, Timber Bent**

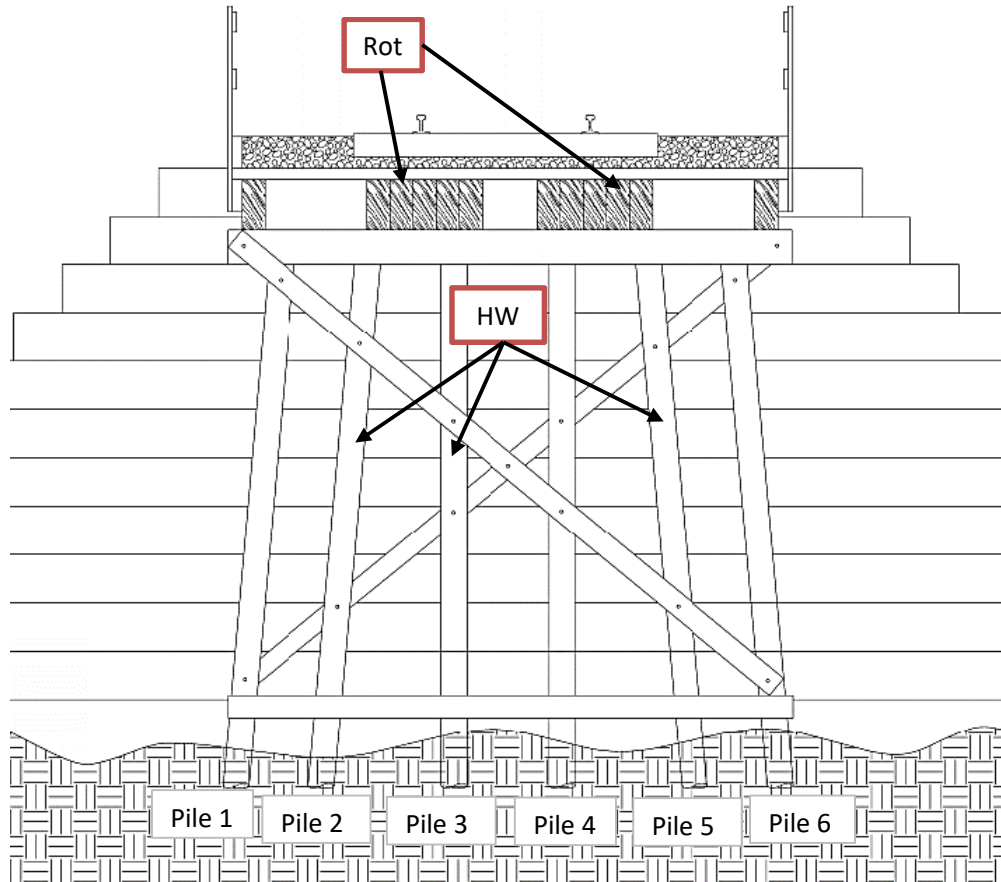
Remarks:

1. PU - Piles #1 and #2 are punky
2. Rot - Stringers #3 and #10 are rotten, #9 is starting to rot
3. Span #5 sway brace buried in dirt on right side
4. HW - Pile #3 and #5 is hollow
5. SP - Cap is split - see photo
6. SP - Stringers #4 and #9 are split

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>Varies</b>	Bridge No.	<b>417.24</b>
DETAILS - ABUT NUMBER: <b>6</b>	Span Length:		



**Description: Looking East - (12) 8"x17.5" Timber Stringers, Timber Abutment**

Remarks:

1. Rot - Stringers #3 and #10 are rotten
2. Handrail leaning with gap at end of bridge - see photo
3. Erosion around SE wingwall - see photo
4. HW - Piles #2, #3, and #5 are hollow
5. Backwall is rotten and leaning - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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## Inspection Photos



**417.24 Looking East**



**417.24 Looking West**



## Inspection Photos



**417.24 Looking North**



**417.24 Looking South**



## Inspection Photos



**417.24 Channel Condition – Looking Upstream**



**417.24 Channel Condition – Looking Downstream**



## Inspection Photos



**417.24 Southwest ballast retainer leaning – ballast leaking**



**417.24 Handrail mid-rail failed in two locations**



## Inspection Photos



**417.24 Abutment 1 bulging and rotten bottom beam with ballast leaking**



**417.24 Stringer 3 failed, Span 1**

## Inspection Photos



**417.24 Bent 2 cap split**



**417.24 Pile 2 split, Bent 2**



## Inspection Photos



**417.24 Stringer 2 failed, Stringer 3 rotten with 3" hole depth, Span 3**



**417.24 Stringer 10 failed, Span 3**



## Inspection Photos



**417.24 Span 3 sash brace covered in dirt and debris at bent 3**



**417.24 Scour hole between bent 3 & 4 – approximately 4'**



## Inspection Photos



**417.24 Pier 4 cap split**



**417.24 Pier 5 cap split**



## Inspection Photos



**417.24 Abutment 6 backwall rotten at bottom**



**417.24 Handrail leaning with gap at end of bridge**

## Inspection Photos



**417.24 SE wingwall erosion**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 417.96  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream \_\_\_\_\_ Overpass \_\_\_\_\_ Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 10:40 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballasted Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Slight dip over structure  
TIES Type: Timber Tie Condition Rating: 5  
 Notes: \_\_\_\_\_  
BALLAST Depth: 12" Ballast Condition Rating: 5  
 Notes: \_\_\_\_\_  
DECK PLANKS Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 15'-2" Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ X Girder \_\_\_\_\_  
 Num Spans 1 Approx. Span Lengths 14'-0"  
 Notes: Ballast Deck Timber Trestle

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Abutment: 5 Type Stone Notes Abut #1 & #2  
 Wingwalls: 5 Type Stone Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth \_\_\_\_\_ Scour Evidence \_\_\_\_\_ Moving Water no  
 Notes \_\_\_\_\_

## OVERALL RATING

High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority X

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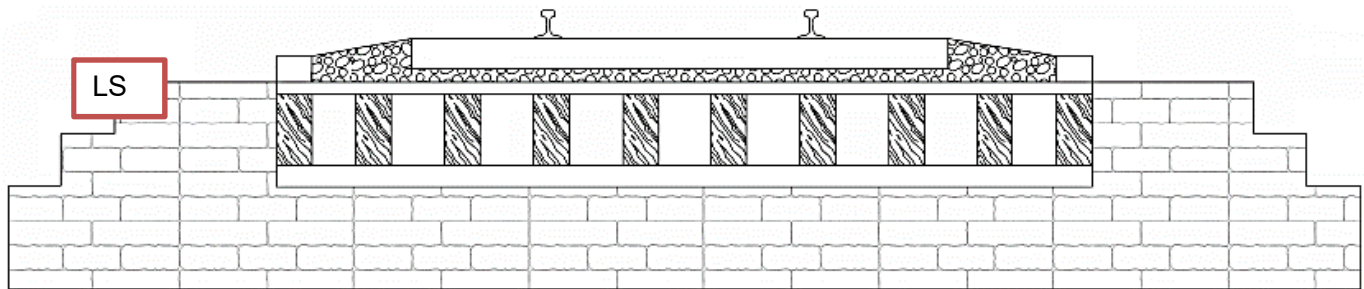


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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STONE ABUTMENT

Span:	Alignment: <b>TANGENT</b>	Vert. Clear: <b>1.5'</b>	Bridge No.	<b>417.96</b>
DETAILS - ABUT NUMBER: <b>2</b>		Span Length:		



**Description: Looking East - (10) 8"x 16.5" Timber Stingers, Stone Abutment**

Remarks:

1. LS - Loose stone in wingwall - see photo

Inspected By:

Joseph Holste, PE

Date Inspected:

12/12/2019



## Inspection Photos



**417.96 Looking East**



**417.96 Looking West**



## Inspection Photos



**417.96 Looking North**



**417.96 Looking South**



## Inspection Photos



**417.96 Loose block in wingwall – Abutment 2**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 418.02  
 Location Santa Paula Branch Line  
Santa Paula, CA

## INSPECTION INFORMATION

Date 12-Dec-19 Time 10:50 a.m.  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

Stream                      Overpass                      Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

**DECK** Type: Ballasted Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Both approaches are low  
TIES Type: Timber Tie Condition Rating: 3  
 Notes: 2 bad ties  
BALLAST Depth: 12" Ballast Condition Rating: 5  
 Notes: Ballast leaking east end - south side  
DECK PLANKS Type: Timber Condition Rating: 5 Notes:                       
OTHER Type:                      Condition Rating:                     

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels                      Round or Rect                      Size                       
 Approx Lngth.                      Concrete                      Steel                       
 Bridge: Steel                      Timber 15' Concrete                       
 Type: Truss                      Deck Girder                      Through                       
 Trestle                      Girder                       
 Num Spans 1 Approx. Span Lengths 14'-0"  
 Notes: Ballast deck timber trestle

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent:                      Type                      Notes                       
 Abutment: 5 Type Stone Notes                       
 Wingwalls: 5 Type Stone Notes                       
 Embank                      Type                      Notes                       
 Footing                      Type                      Notes                       
 Inaccessible areas:                     

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth                      Scour Evidence Yes Moving Water None  
 Notes 2' scour at Abutment #1, Large drop between upstream and downstream culverts-likely future scour issues

## OVERALL RATING

High Priority                      Medium Priority                      Low Priority X

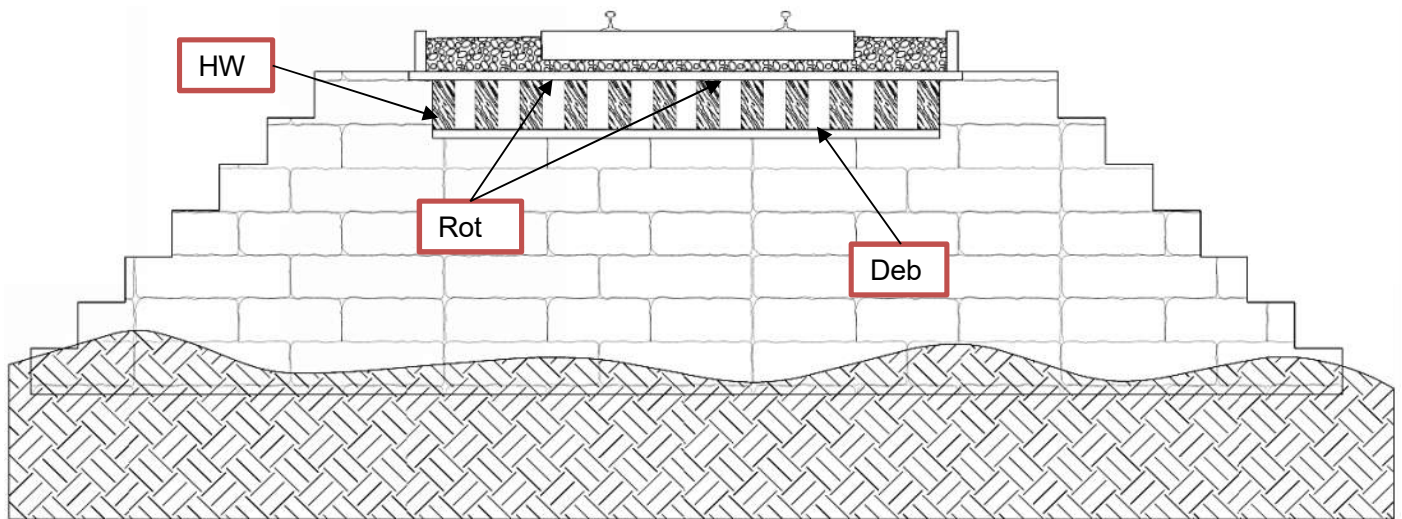


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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STONE ABUTMENT

Span: 1	Alignment: CURVE	Vert. Clear: 8'	Bridge No.	418.02
DETAILS - ABUT NUMBER: 1			Span Length:	14'



**Description:** Looking West - (12) 7.5"x17" TimberStringers, Abutment #1 is stone

### Remarks:

1. HW - Stringer 12 sounds hollow. Splitting horizontally for full length.
2. Deb - Debris on sill plate
3. Moisture on sill due to fouled ballast and backwall holding moisture
4. Rot - Multiple deck planks showing signs of rot and multiple holes

Inspected By:

Joseph Holste, PE

Date Inspected:

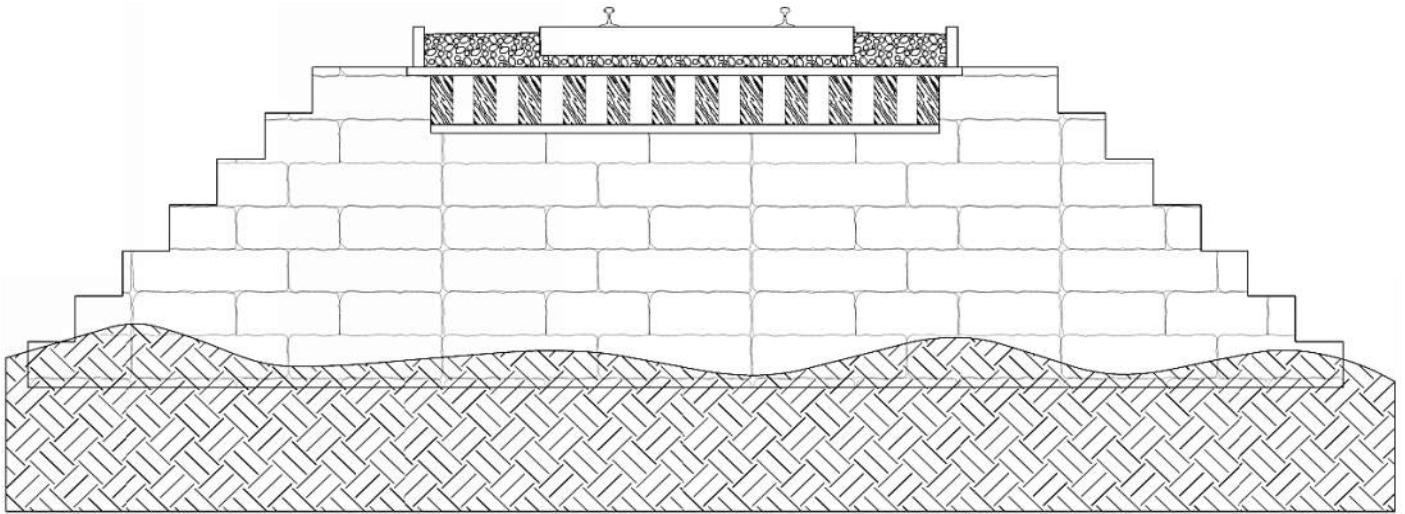
12/12/2019



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STONE ABUTMENT

Span:	Alignment: <b>CURVE</b>	Vert. Clear: <b>8'</b>	Bridge No.	<b>418.02</b>
DETAILS - ABUT NUMBER: <b>2</b>		Span Length:		



**Description: Looking East - Abutment #2 is stone**

### Remarks:

1. Low ballast at end of ballast retainer, extend retainer and add ballast (see photo)
2. Stringers 5, 6, 7 crushing 1/4" at abutment
3. Moisture on sill due to fouled ballast and backwall holding moisture

## Inspection Photos



**418.02 Looking East**



**418.02 Looking West**



## Inspection Photos



**418.02 Looking North**



**418.02 Looking South**



## Inspection Photos



**418.02 Low shoulder ballast at SE approach**



**418.02 Debris and moisture on sill plate**

## Inspection Photos



**418.02 Deck planks showing signs of rot and multiple holes**



**418.02 Stringers #5, 6, 7 crushing at Abutment 2**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 419.42  
 Location Santa Paula Branch Line  
Santa Paula, CA  
 Stream X (Unknown Creek) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 11:05 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Low approaches east and west  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth: 12 in Ballast Condition Rating: 3  
 Notes: Fouled ballast and low ballast  
DECK PLANKS Type: N/A Condition Rating:          Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber          Concrete 30'  
 Type: Truss          Deck Girder          Through           
 Trestle          Girder           
 Num Spans 1 Approx. Span Lengths 30'  
 Notes: Concrete double box girder - built 1969

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent:          Type          Notes           
 Abutment: 5 Type Concrete Notes Steel piles  
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth 0 Scour Evidence yes Moving Water no  
 Notes Channel is degrading. 3' of steel pile currently exposed

## OVERALL RATING

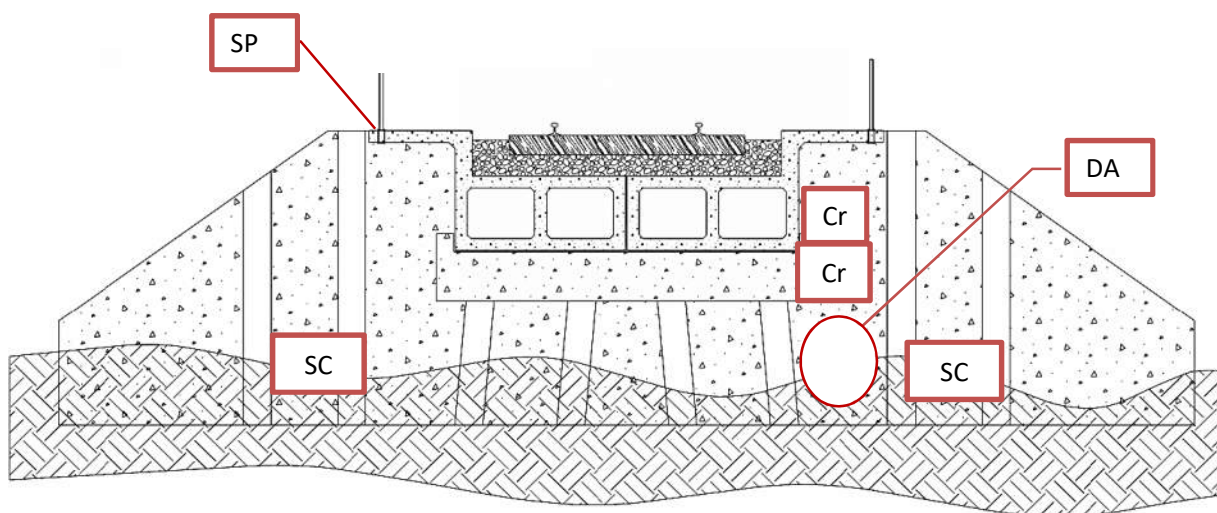
High Priority          Medium Priority          Low Priority X

[illegible]



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Spans: 1	Alignment: TANGENT	Vert. Clear: 20'	Bridge No.	419.42
DETAILS - ABUT NUMBER: 1			Span Length:	29'-10"



**Description:** Looking West - 80"x30" Concrete box, concrete abutment #1 with steel piles

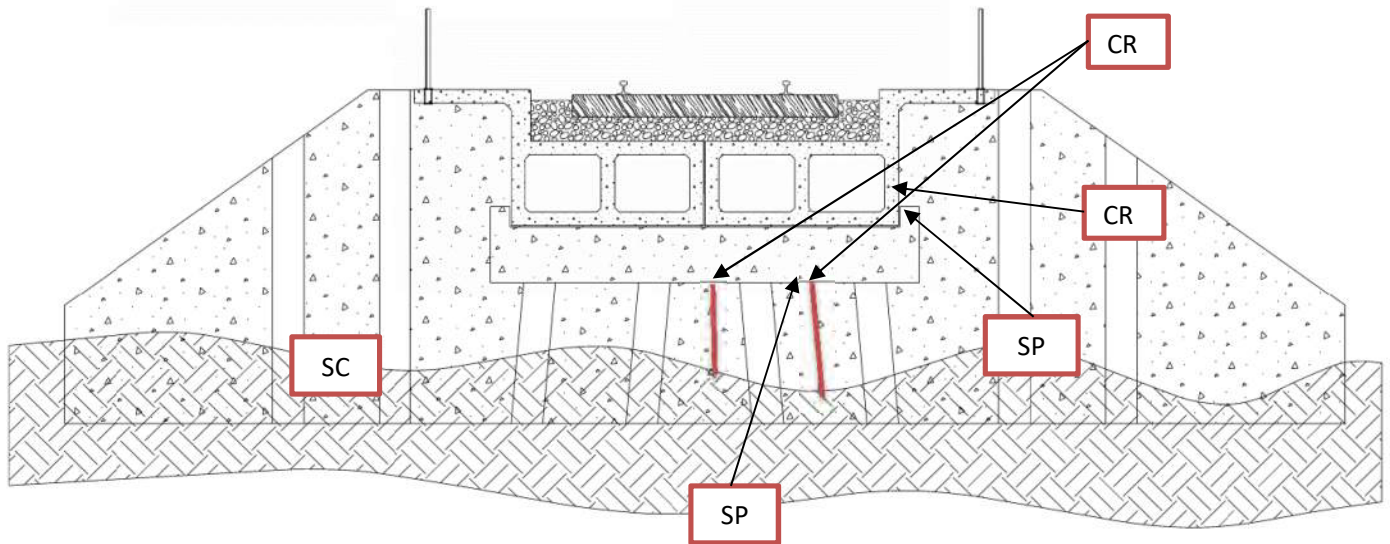
**Remarks:**

1. CR - Crack in cap and abutment - see photo
2. CR - North keeper cracked - see photo
3. DA - Delaminated concrete
4. SC - Scour at abutment face; abutment beginning to scour 3' max pile exposed below concrete - see photo
5. SP - Spall on walkway - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span:	Alignment: TANGENT	Vert. Clear: 20'	Bridge No.	419.42
DETAILS - ABUT NUMBER: 2		Span Length:		



**Description:** Looking East - 80"x30" Concrete box, concrete abutment #2 with steel piles

**Remarks:**

1. SC - Scour at abutment face approximately 2.5' - see photo
2. CR - Abutment cracks as shown, 1/4" to 1/2" cracks - see photo
3. SP - Cap crack and spall with exposed rebar - see photo
4. SP - South keeper cracked with spall - see photo
5. CR - Crack in backwall above keeper - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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## Inspection Photos



**419.42 Looking East**



**419.42 Looking West**



## Inspection Photos



**419.42 Looking North**



**419.42 Looking South**



## Inspection Photos



**419.42 Channel Condition - Looking Upstream**



**419.42 Channel Condition – Looking Downstream**



## Inspection Photos



**419.42 Abutment 1 crack and keeper block cracked – North edge of cap**



**419.42 Scour - Abutment 1**

## Inspection Photos



**419.42 Spall on South walkway**



**419.42 Cracking and spall with exposed rebar - Abutment 2**



## Inspection Photos



**419.42 Scour - Abutment 2**



**419.42 Crack in backwall, and crack and spall on south keeper – Abutment 2**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 419.92  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream X (Unknown Creek) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 12:35 p.m.  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Low approaches east and west, section loss at rail top  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth: 14 in Ballast Condition Rating: 3  
 Notes: Hole in east and west ballast near east and west approach  
DECK PLANKS Type: Timber Condition Rating: 5 Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber 90' Concrete           
 Type: Truss          Deck Girder          Through           
 Trestle          x Girder           
 Num Spans 6 Approx. Span Lengths 15'  
 Notes: Ballast Deck Trestle

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent: 3 Type Timber Notes           
 Abutment: 3 Type Timber Notes           
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth 0 Scour Evidence yes Moving Water no  
 Notes Channel is degrading. Worst scour at bent 2. 30' of pile indicated and 20' exposed.

## OVERALL RATING

High Priority          Medium Priority X Low Priority



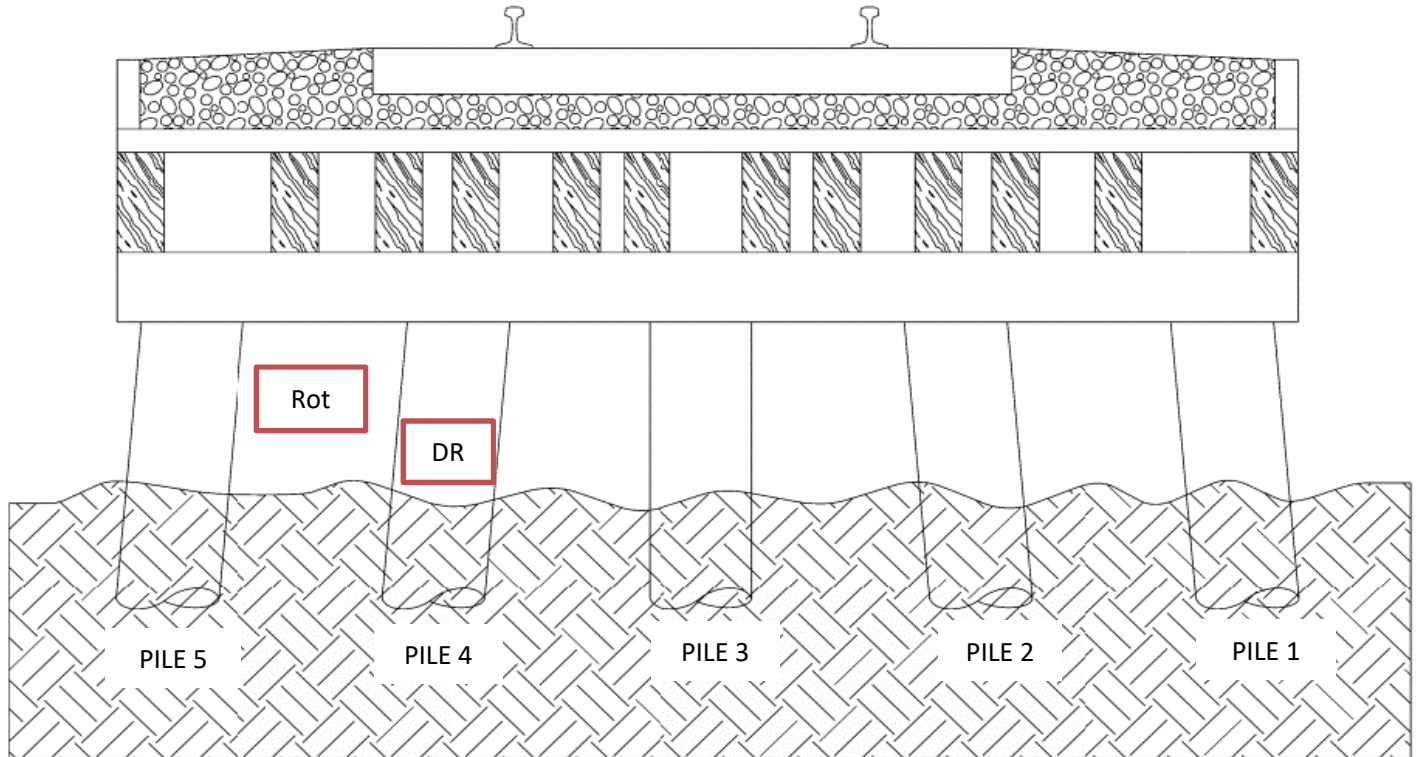
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	6	Alignment:	Curve	Vert. Clear:	20' +	Bridge No.	419.92
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Creek	Overall Length:	90'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	3	S01 Stringers	5	B08 Sash Brace		3	
E02 Channel	3	S02 Line Bolts	N/A	B09 Long Brace		3	
E03 Approach	3	S03 Bearing @ Cap	5	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Abutment	3	M01			
D02 Ties Spacers	N/A	B02 East Abutment	5	M02			
D03 Rail	3	B03 Caps	5	M03			
D04 Ballast Floor	3	B04 Piles	5	M04			
D05 Ballast Retainer	3	B05 Framed Bents	N/A	Overall Rating:		3	
D06 Footwalk	N/A	B06 Posts	N/A				
D07 Handrail	N/A	B07 Cross Braces	3				
<b>COMMENTS</b>							
Reference	Remark						
Utilities	Petroleum utility runs underground on right side, parallel to track at 50'						
Handrail	No handrail						
Backwall	West backwall undermined and rotten - see photo						
Rail	Dump northeast approach - see photo						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E01, E02, A	Protect Abutment #1 from further scour						
E03, B	Raise approaches both ends						
B07 to B09, B	Replace missing, rotted and broken bracing						
D04, B	Repair holes in ballast near abutment 1						
B01, B/C	Replace backwall planks						
D03	Replace rail as needed to match tonnage						
D05, B/C	Increase height of SW ballast retainer to hold ballast						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/12/2019	

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT

Span: 1	Alignment: CURVE	Vert. Clear: 12' +	Bridge No.	419.92
DETAILS - ABUT NUMBER: 1			Span Length:	14'



**Description: Looking west - (12) 7.75"x17.5" stringers, timber abutment #1**

### Remarks:

1. DR (2014) - Pile #4 has 2" shell and is hollow
2. Rot - West Backwall is scoured and rotting causing ballast leak - see photo
3. Steel bands on piles 1 & 2
4. Ballast overtopping SW ballast retainer - see photo
5. Scour almost to abutment, 4' back from bent 2 piles at base - see photo

Inspected By:

Joseph Holste, PE

Date Inspected:

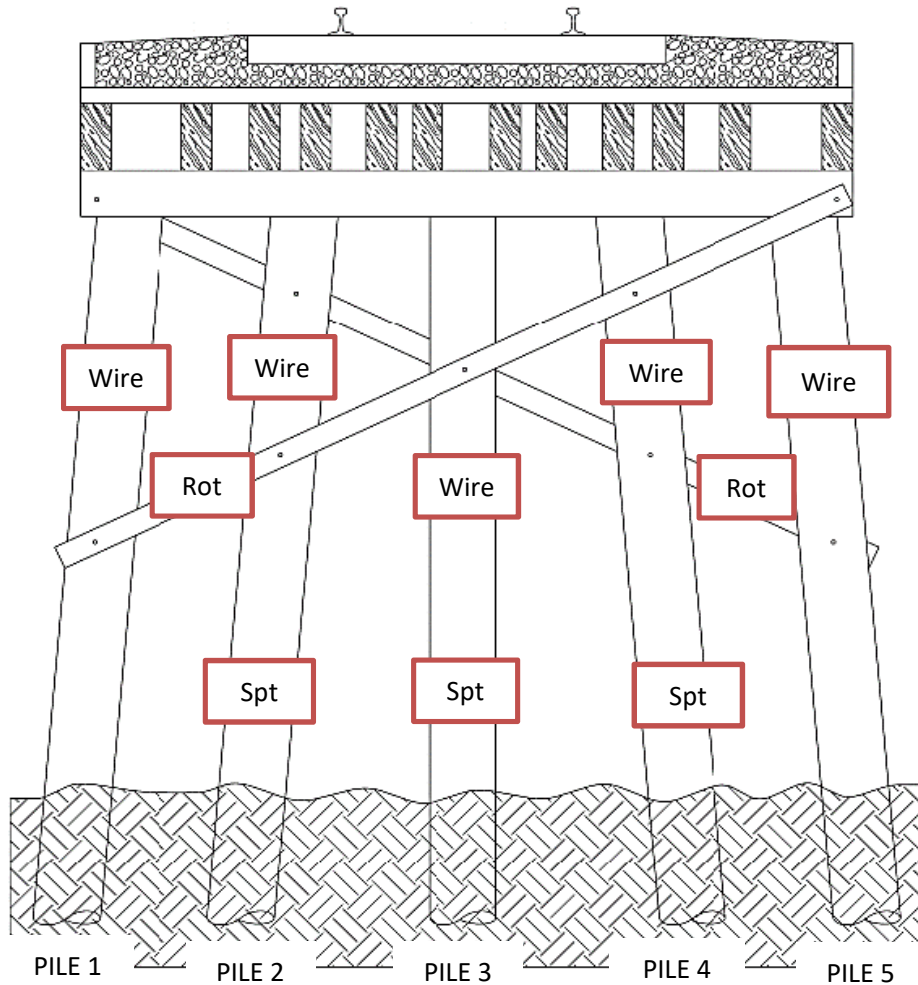
12/12/2019



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER BENT

Spans: 2	Alignment: CURVE	Vert. Clear: 12' +	Bridge No.	419.92
DETAILS - BENT NUMBER: 2			Span Length:	15'



**Description:** Looking west - (12) 7.75"x17.5" stringers, timber bent #2

### Remarks:

1. Severe scour at bent #2
2. Wire - All piles have been wire wrapped because of vertical splitting
3. Rot - Span #1 sway brace is rotted out
4. Rot - Span #2 sway brace is rotted out at pile #5 - see photo
5. Span #2 longitudinal bracing is missing
6. Spt - Piles #2, #3, and #4 are split 1" - see photo

Inspected By:

Joseph Holste, PE

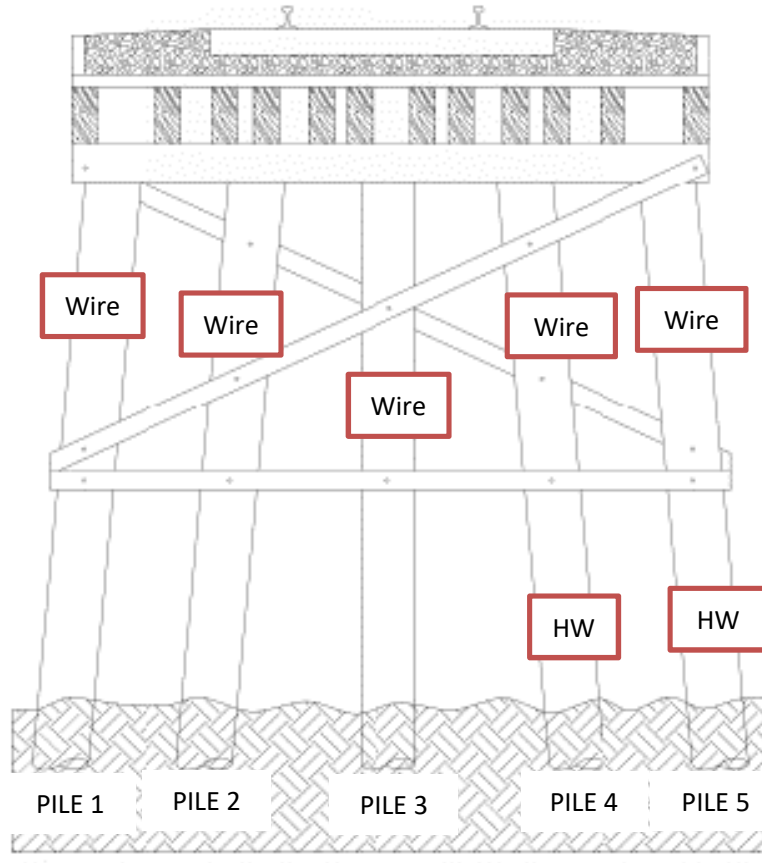
Date Inspected:

12/12/2019

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER BENT

Span: 3	Alignment: CURVE	Vert. Clear: 12' +	Bridge No.	419.92
DETAILS - BENT NUMBER: 3			Span Length:	15'



**Description: Looking west - (12) 7.75"x17.5" stringers, timber bent #3**

### Remarks:

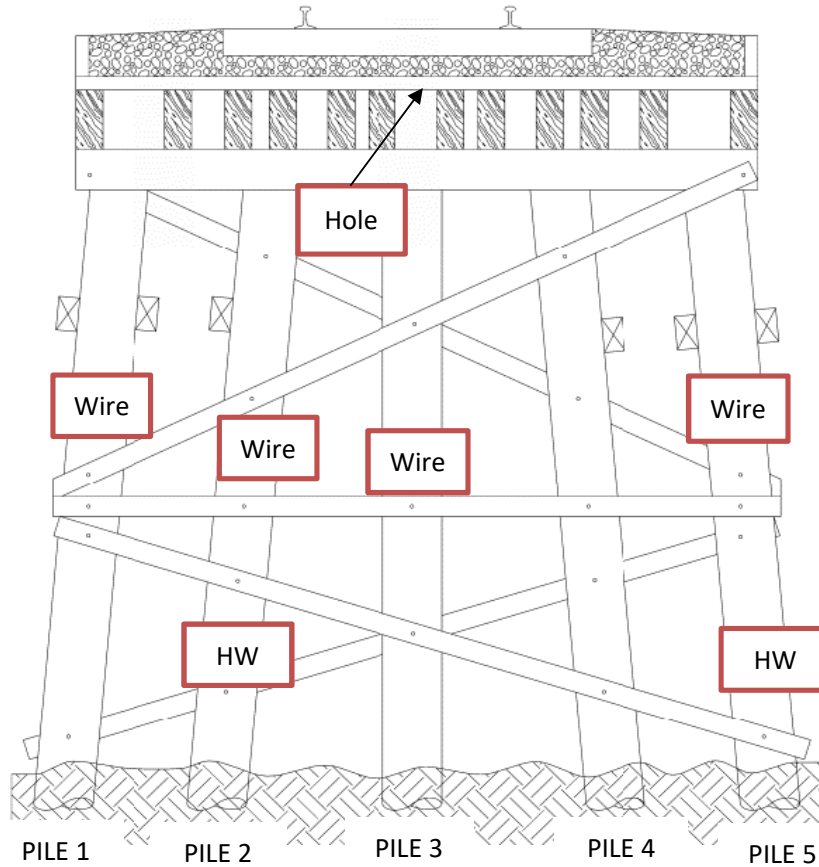
1. All piles are wire wrapped to arrest vertical splits
2. HW - Piles 4 & 5 sound hollow



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER BENT

Span: 4	Alignment: CURVE	Vert. Clear: 12' +	Bridge No.	419.92
DETAILS - BENT NUMBER: 4			Span Length:	15'



**Description: Looking west - (12) 7.75"x17.5" stringers, timber bent #4**

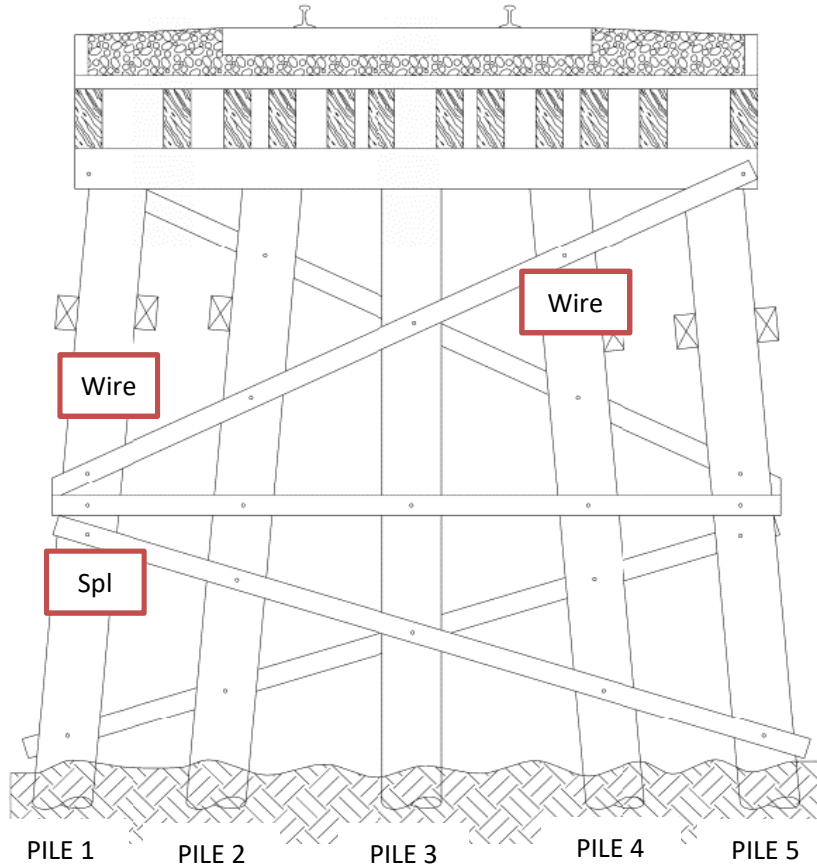
### Remarks:

1. Wire - Piles #1, #2, #3 and #5 wire wrapped to arrest vertical splitting
2. HW - Pile #2 and #5 sound hollow
3. Stringer 4 split at ends of repair locations due to low cover to bolt holes - see photo
4. Hole - Span 4 hole beginning in deck between stringer 6 and 7
5. Scour 5' from Bent 5 - see photo

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER BENT

Span: 5	Alignment: CURVE	Vert. Clear: 12' +	Bridge No.	419.92
DETAILS - BENT NUMBER: 5			Span Length:	15'



**Description: Looking west - (12) 7.75"x17.5" stringers, timber bent #5**

### Remarks:

1. Wire - Piles #1 and #4 are wire wrapped due to vertical splitting
2. Spl - Pile #1 is split
3. Stringers 4, 7, 9, 10 split at repair location

Inspected By:

Joseph Holste, PE

Date Inspected:

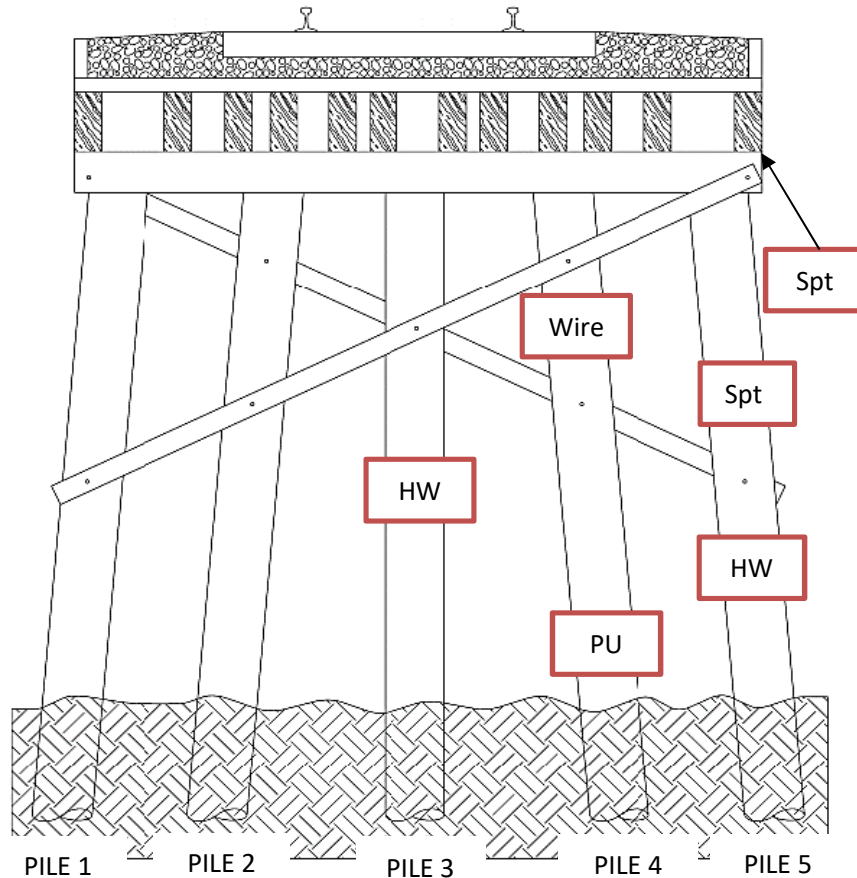
12/12/2019



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER BENT

Span: 6	Alignment: CURVE	Vert. Clear: 12' +	Bridge No. 419.92
DETAILS - BENT NUMBER: 6			Span Length: 15'



**Description:** Looking west - (12) 7.75"x17.5" stringers, timber bent #6

### Remarks:

1. Wire - Pile #4 is wire wrapped to arrest vertical splitting and sounds soft
2. Pu - Pile #4 is punky
3. HW - Piles 3 and 5 sound hollow
4. Spt - Stringer 12 is split near abutment 7
5. Pile #5 spilt. See photo

Inspected By:

Joseph Holste, PE

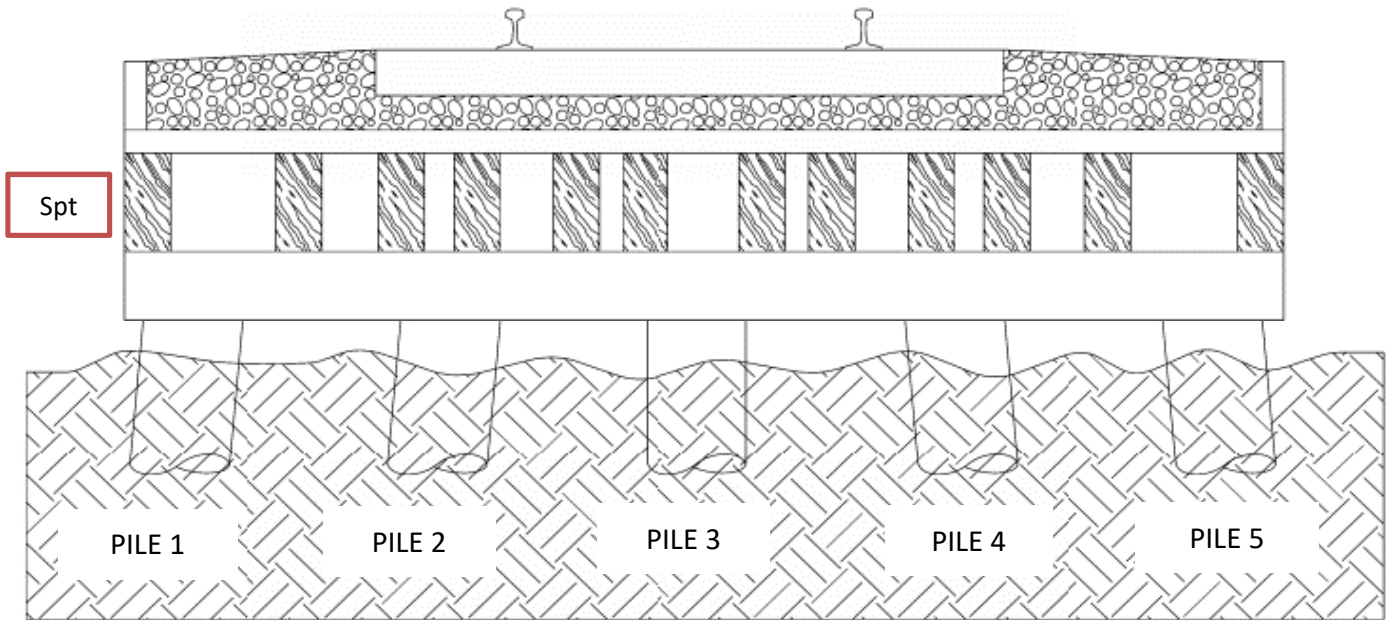
Date Inspected:

12/12/2019

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT

Span:	Alignment: <b>CURVE</b>	Vert. Clear: <b>Varies</b>	Bridge No.	<b>419.92</b>
DETAILS - ABUT NUMBER: <b>7</b>		Span Length:		



**Description: Looking East - (12) 7.75"x17.5" stringers, timber abutment #7**

### Remarks:

1. Spt - NE wingwall is split - see photo
2. Piles are buried

Inspected By:

Joseph Holste, PE

Date Inspected:

12/12/2019

## Inspection Photos



**419.92 Looking East**



**419.92 Looking West**



## Inspection Photos



**419.92 Looking North**



**419.92 Looking South**



## Inspection Photos



**419.92 Channel Condition – Looking Upstream**



**419.92 Channel Condition - Looking Downstream**



## Inspection Photos



**419.92 Rail section loss – east and west sides and along length of bridge**



**419.92 Holes in ballast near abutment 1 & 7**



## Inspection Photos



**419.92 Rail Dump Northeast approach**



**419.92 Ballast overtopping SW ballast retainer**



## Inspection Photos



**419.92 Abutment 1 back wall scour**



**419.92 Typical location of channel bank by Abutment 1**



## Inspection Photos



**419.92 Sway bracing rotten - Bent 2**



**419.92 Piles #2, #3, and #4 are split 1" - Bent 2**

## Inspection Photos



**419.92 Stringer 4 split at ends of repair locations - Bent 4**



**419.92 Hole beginning in deck between stringer 6 and 7 - Span 4**



## Inspection Photos



**419.92 Scour 5' from Bent 5**



**419.92 Pile #5 is Split, Bent 6**

## Inspection Photos



**419.92 NE Wingwall is Split**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 420.20  
 Location Santa Paula Branch Line  
Fillmore, CA

## INSPECTION INFORMATION

Date 12-Dec-19 Time 1:25 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

Stream \_\_\_\_\_ Overpass x (Dudley Rd) Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 3  
**RAIL** Weight: 132# Type: Jointed Visual Condition Rating: 3  
 Notes: East approach is low  
**TIES** Type: Timber Tie Condition Rating: 3  
 Notes: Multiple are spilt and out of alignment  
**BALLAST** Depth: 12 in Ballast Condition Rating: 3  
 Notes: holes in ballast - east and west ends  
**DECK PLANKS** Type: Timber Condition Rating: 3 Notes: Some failed  
**OTHER** Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 3  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 60' Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ x Girder \_\_\_\_\_  
 Num Spans 4 Approx. Span Lengths 15'  
 Notes: Ballast Deck Timber Trestle

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Timber Notes \_\_\_\_\_  
 Abutment: 5 Type Timber Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating N/A  
 Stream Depth \_\_\_\_\_ Scour Evidence \_\_\_\_\_ Moving Water \_\_\_\_\_  
 Notes \_\_\_\_\_

## OVERALL RATING

High Priority X Medium Priority \_\_\_\_\_ Low Priority \_\_\_\_\_

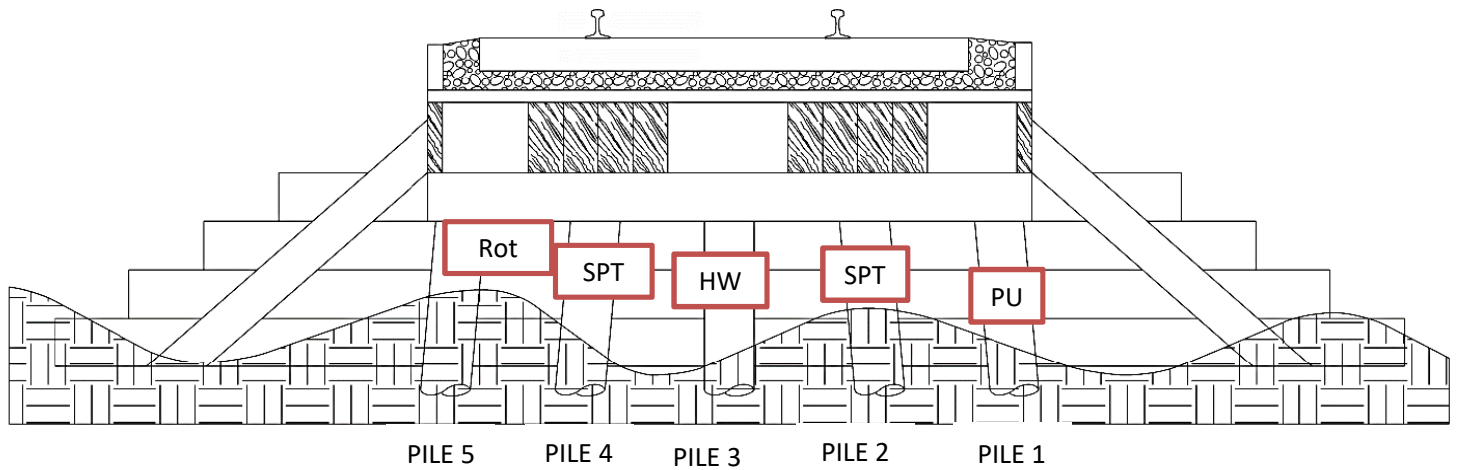
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	4	Alignment:	Tangent	Vert. Clear:	8'-3"	Bridge No.	420.20
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Road	Overall Length:	60'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	N/A	S01 Stringers	3	B08 Sash Brace		N/A	
E02 Channel	N/A	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	3	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Abutment	3	M01			
D02 Ties Spacers	N/A	B02 East Abutment	3	M02			
D03 Rail	5	B03 Caps	5	M03			
D04 Ballast Floor	3	B04 Piles	5	M04			
D05 Ballast Retainer	3	B05 Framed Bents	N/A	Overall Rating:		3	
D06 Footwalk	N/A	B06 Posts	N/A				
D07 Handrail	N/A	B07 Cross Braces	3				
<b>COMMENTS</b>							
Reference	Remark						
Structure	Bridge has been burned, 1/4" charred						
Structure	Temporary bents under spans 1, 2, 4						
Structure	Supplemental steel beam added in span 3						
Utilities	Gas utilities running under bridge along span #2						
Handrail	No handrail						
Ballast Curb	Ballast curb rotted at NE end						
Ballast	Low ballast, wings undermined at east & west ends						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
S03, A	Shim temporary bents						
E03, B	Raise approaches						
S01, B	Add supplemental steel stringers to replace temporary bents						
D07, B	Add handrail						
D04, D05, B	Repair ballast retainer and deck planks						
B07, B/C	Repair sway bracing						
B01, B02, C	Repair rotten backwall						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/12/2019	



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 8'-3"	Bridge No.	420.20
DETAILS - ABUT NUMBER: 1			Span Length:	14'6"



**Description:** Looking west - (8) 7.5"x17" stringers, (2) 3.5" x 17" exterior stringers, timber abutment #1

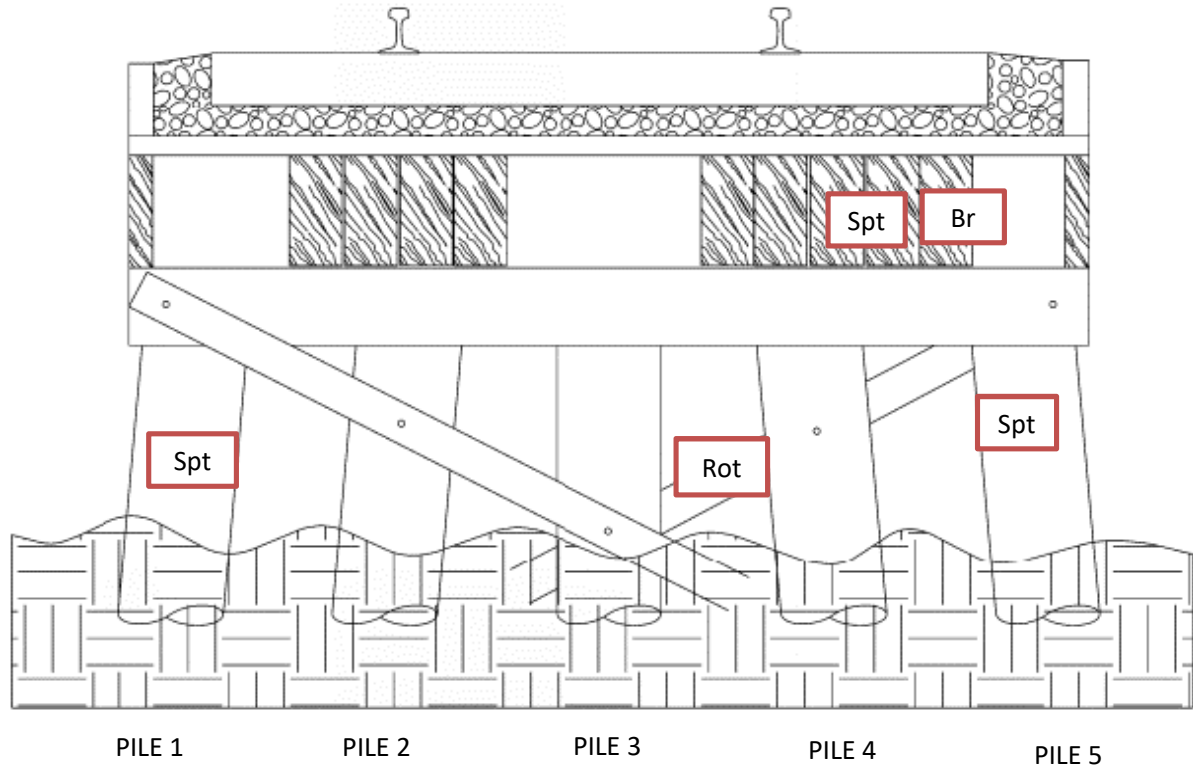
**Remarks:**

1. PU - Pile #1 is punky
2. SPT - Piles 2 and 4 are split
3. Shims missing at helper bent - see photo
4. Rot - Backwall rotten - see photo
5. HW - Pile 3 is hollow
6. Undermining ballast retainer both north and south sides - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: 8'-3"	Bridge No.	420.20
DETAILS - BENT NUMBER: 2			Span Length:	15'



**Description:** Looking East - (9) 7.5"x17" stringers, (2) 3.5" x 17" exterior stringers, timber bent #2

**Remarks:**

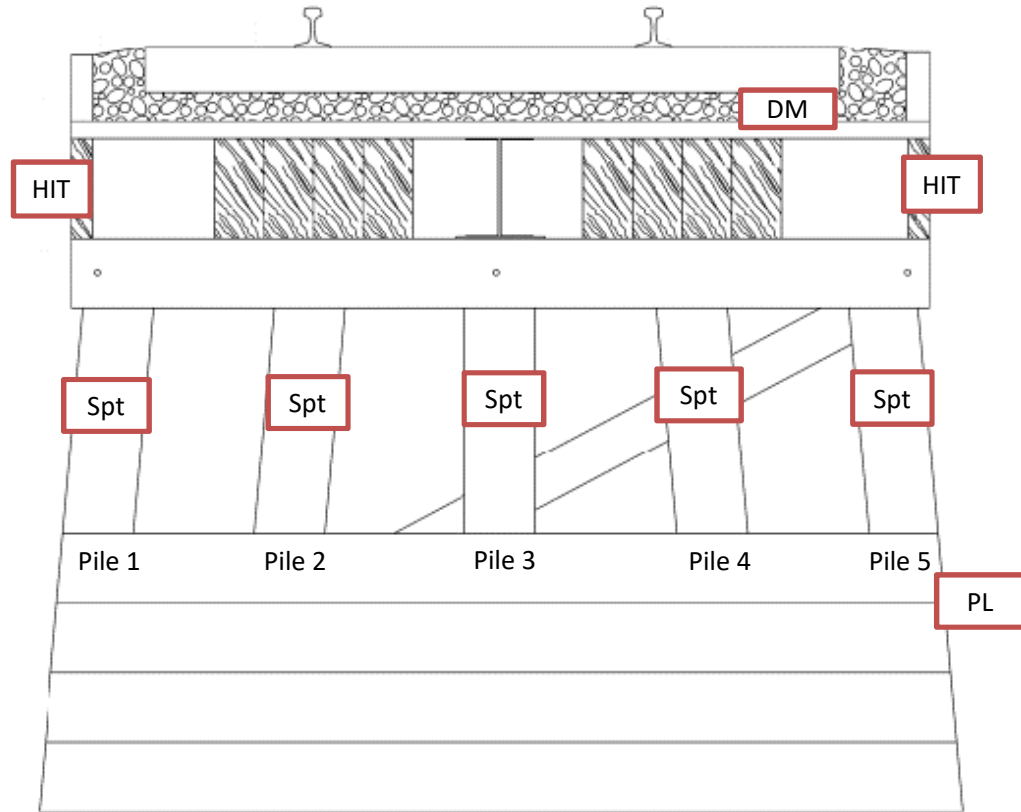
1. Br - (Helper) stringer #9 broken/failed mid span - see photo
2. SPT - Stringer #8 has shear split - see photo
3. SPT - Pile #1 and #5 have vertical split
4. ROT - Span #2 sway brace is rotten - see photo
5. Temporary bent needs to be shimmed

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 3	Alignment: TANGENT	Vert. Clear: 8'-3"	Bridge No.	420.20
DETAILS - BENT NUMBER: 3			Span Length:	15'



**Description:** Looking East - (8) 7.5"x17" stringers, (2) 3.5" x 17" exterior stringers, (1) steel beam, timber bent #3

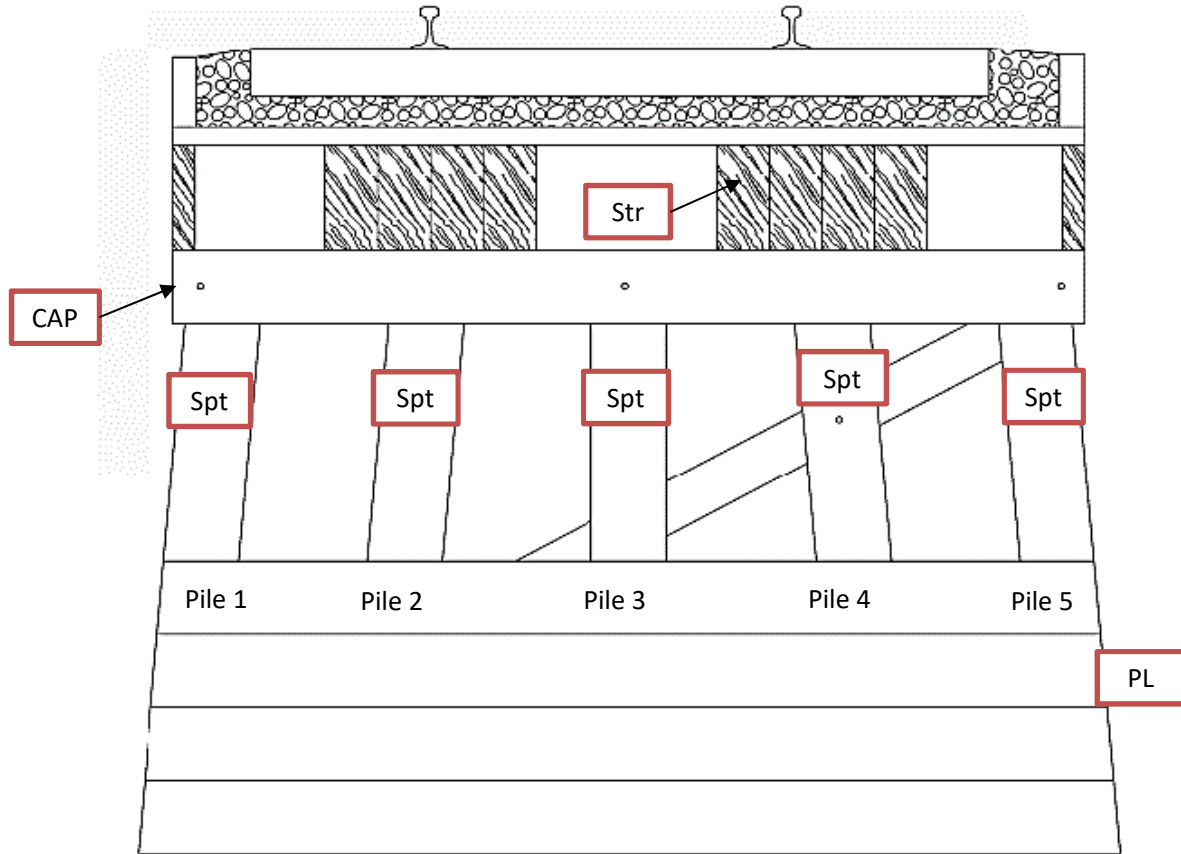
**Remarks:**

1. SPT - Piles #1,#2,#3, #4 and #5 have vertical splits - see photo
2. DM - Stringer #8 has minor damage from high impact load
3. PL - Bent has 2"x12" planking to protect pile from vehicles on road
4. HIT - Bridge has been hit by high load, ballast stringers have major section loss - see photo
5. Additional steel beam added

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 4	Alignment: TANGENT	Vert. Clear: 8'-3"	Bridge No.	420.20
DETAILS - BENT NUMBER: 4			Span Length:	14'6"



**Description:** Looking East - (8) 7.5"x17" stringers, (2) 3.5" x 17" exterior stringers, timber bent #4

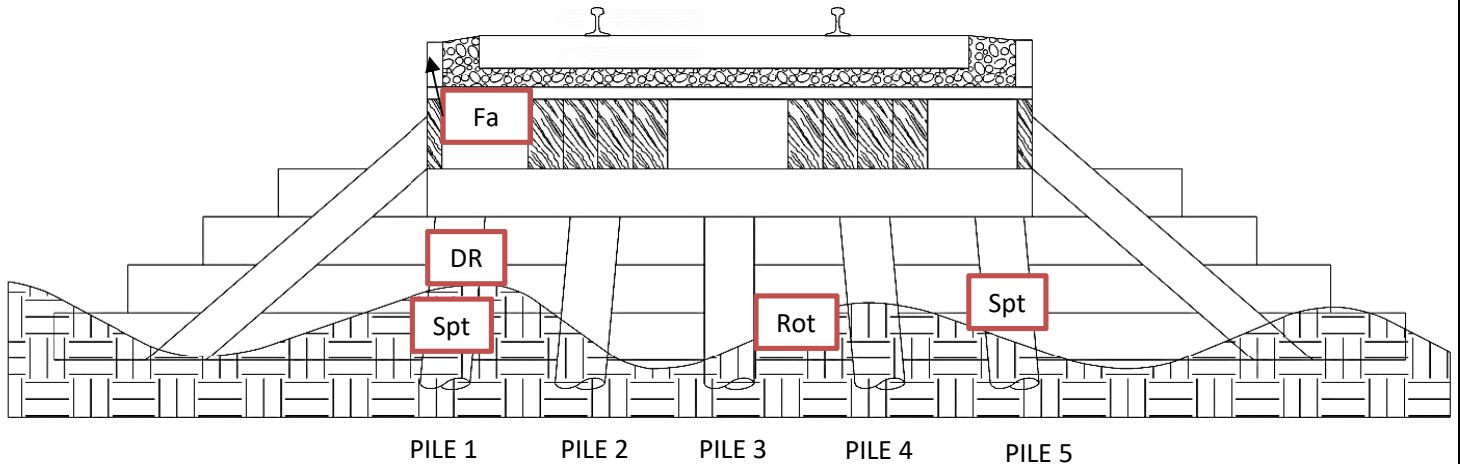
**Remarks:**

1. Spt - All piles have vertical splits
2. PL - Bent has 2"x12" planking to protect pile from vehicles on road
3. Shims missing at helper bent
4. Str - Stringer 5 split
5. Deck planks failed over helper bent - see photo
6. CAP - Vertical split in cap at north end



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT			
Alignment: <b>TANGENT</b>	Vert. Clear: <b>8'-3"</b>	Bridge No.	<b>420.20</b>
DETAILS - ABUT NUMBER: <b>5</b>	Span Length:		



**Description: Looking East - (8) 7.5"x17" stringers, (2) 3.5" x 17" exterior stringers, timber abutment #5**

**Remarks:**

1. DR (2014) - Pile #1 has 2" of shell remaining
2. Fa - Span #4 ballast boards are failing at Abutment 5 - see photo
3. Spt - Piles #1 and #5 have vertical splits - see photo
4. Rot - Back wall is rotten - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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## Inspection Photos



**420.20 Looking East**



**420.20 Looking West**



## Inspection Photos



**420.20 Looking North**



**420.20 Looking South**



## Inspection Photos



**420.20 Typical holes in ballast – east and west ends**



**420.20 Undermining ballast retainer – north and south sides**



## Inspection Photos



**420.20 Abutment 1 rotten backwall**



**420.20 Gap between stringer and helper bent, typ.**

## Inspection Photos



**420.20 Span 2 sway brace rotten**



**420.20 Stringer 8 shear split and Stringer 9 failed Span 2**



## Inspection Photos



**420.20 Bent 2 Pile 5 Split**



**420.20 Span 2, Stringer 9 failed at helper bent**

## Inspection Photos



**420.20 Exterior stringer failed due to impact - Span 3 typ**



**420.20 Impact Damage – Span 3**



## Inspection Photos



**420.20 Bent 3 piles split**



**420.20 Failing Deck Plank – Span 4**

## Inspection Photos



**420.20 Ballast boards failing at Abutment 5**



**420.20 Abutment 5 Pile 5 split**



## Inspection Photos



**420.20 Abutment 5 rotten backwall**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 420.46  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream x (unknown creek) Overpass \_\_\_\_\_ Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 1:50 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 5  
**RAIL** Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: East and west approaches are low at joint, section loss east end  
**TIES** Type: Timber Tie Condition Rating: 5  
 Notes: \_\_\_\_\_  
**BALLAST** Depth: 13 in Ballast Condition Rating: 5  
 Notes: \_\_\_\_\_  
**DECK PLANKS** Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
**OTHER** Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 90' Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ x Girder \_\_\_\_\_  
 Num Spans 6 Approx. Span Lengths 15'  
 Notes: Ballast Deck timber trestle with supplemental steel beams

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent: 3 Type Timber Notes \_\_\_\_\_  
 Abutment: 3 Type Timber Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 3  
 Stream Depth 0 Scour Evidence yes Moving Water no  
 Notes 4'-5' Scour between bent 2 and bent 3. 10 ft of pile embed remaining.

## OVERALL RATING

High Priority \_\_\_\_\_ Medium Priority x Low Priority \_\_\_\_\_

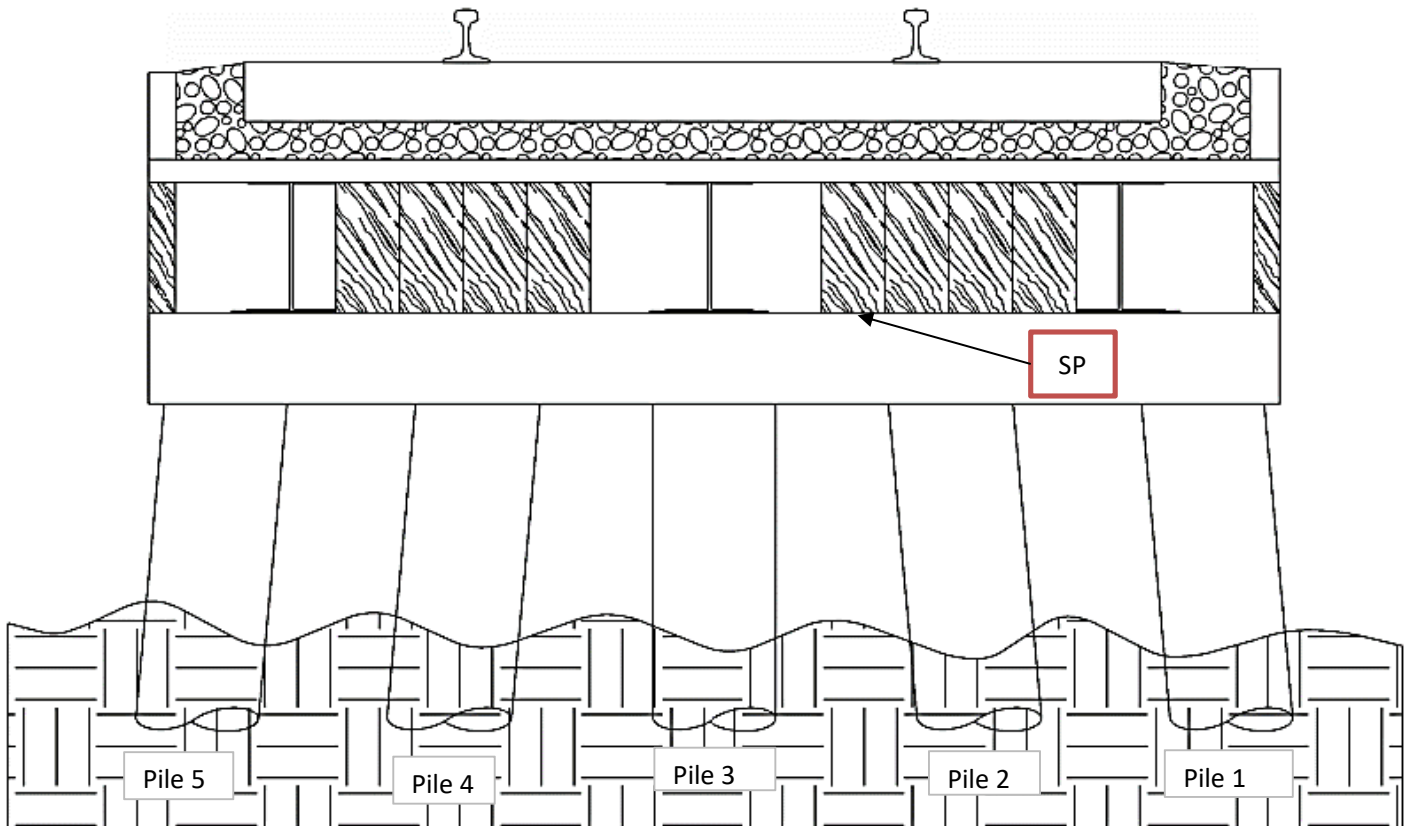


MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	6	Alignment:	Curve	Vert. Clear:	12' +/-	Bridge No.	420.46
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	creek	Overall Length:	90'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	3	S01 Stringers	5	B08 Sash Brace		3	
E02 Channel	3	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	5	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Abutment & Wingwalls	3	M01			
D02 Ties Spacers	N/A	B02 East Abutment & Wingwalls	3	M02			
D03 Rail	3	B03 Caps	3	M03			
D04 Ballast Floor	3	B04 Piles	3	M04			
D05 Ballast Retainer	5	B05 Framed Bents	N/A	Overall Rating:		5	
D06 Footwalk	N/A	B06 Posts	N/A				
D07 Handrail	N/A	B07 Cross Braces	3				
<b>COMMENTS</b>							
Reference	Remark						
Wingwall	Wingwall is failing at west end, right side, wingwall needed at east end						
Walkway, Handrail	No walkway, no handrail						
Utilities	Pipe line parallel to tracks at 50' south						
Structure	Superstructure replaced (2016)						
Ballast	Hole in ballast at SW shoulder. Ballast retainer failed.						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E03, B	Raise approaches						
D03	Replace rail with heavier section as tonnage dictates						
B01, B02, B/C	Repair abutment ballast retainer west end and add at east end, Replace west backwall						
B07, B08, B, M	Replace broken bent 2 sway brace, attach bent 4 brace						
D04, B	Repair holes in deck planks						
E01, E02, B03, B04, M	Monitor, Condition may change & raise priority						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
3. Satisfactory but with exceptions: Slow order may be required.				C. Within 3 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				D. Within 5 years			
5. Good with minor exceptions				E. Within 10 years			
6. New Bridge				M. Monitor, Condition may change & raise priority			
7. Not inspected: Reason stated				-			
Inspected By:		Joseph Holste, PE		Date Inspected:		12/12/2019	

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT				
Span: 1	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	420.46
DETAILS - ABUT NUMBER: 1			Span Length:	14'6"



**Description:** (8) 8"x17" timber stringers, (3) supplemental steel stringers, (2) 3-5/8"x17" ext. timber abutment #1

**Remarks:**

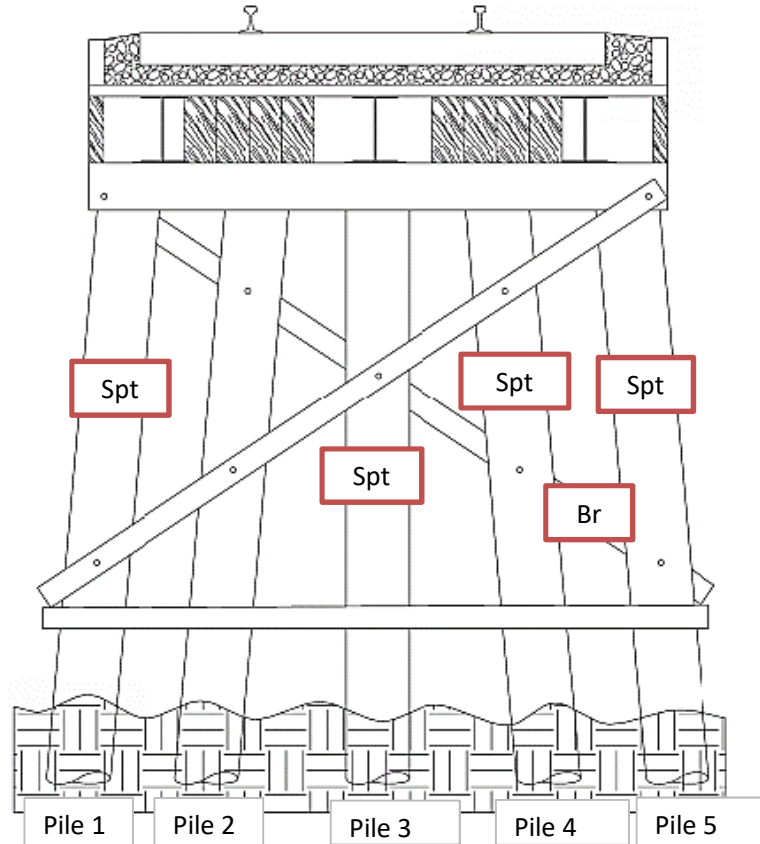
1. SW ballast retainer undermined and leaning - see photo
2. Abutment backwall failed plank has been supplemented; supplement failed - see photo
3. SP - Stringer #4 was corner split - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	420.46
DETAILS - BENT NUMBER: 2			Span Length:	15'



**Description:** (8) 8"x17" timber stringers, (3) supplemental steel stringers, (2) 3-5/8"x17" exterior timber bent #2

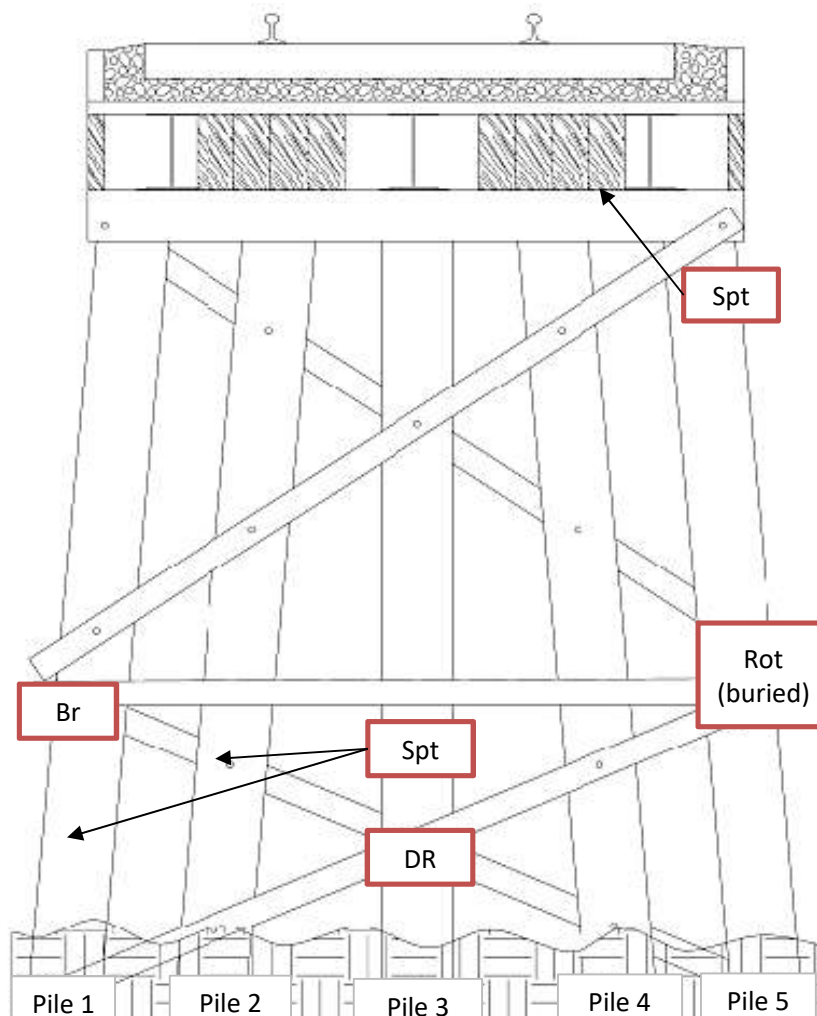
**Remarks:**

1. Br-Span #2, bent #2 sway brace is broken on south side at pile #5 - see photo
2. Spt - Piles #1, #3, #4 and #5 split - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 3	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	420.46
DETAILS - BENT NUMBER: 3			Span Length:	15'



**Description:** (8) 8"x17" timber stringers, (3) supplemental steel stringers, (2) 3-5/8"x17" ext. timber bent #3

**Remarks:**

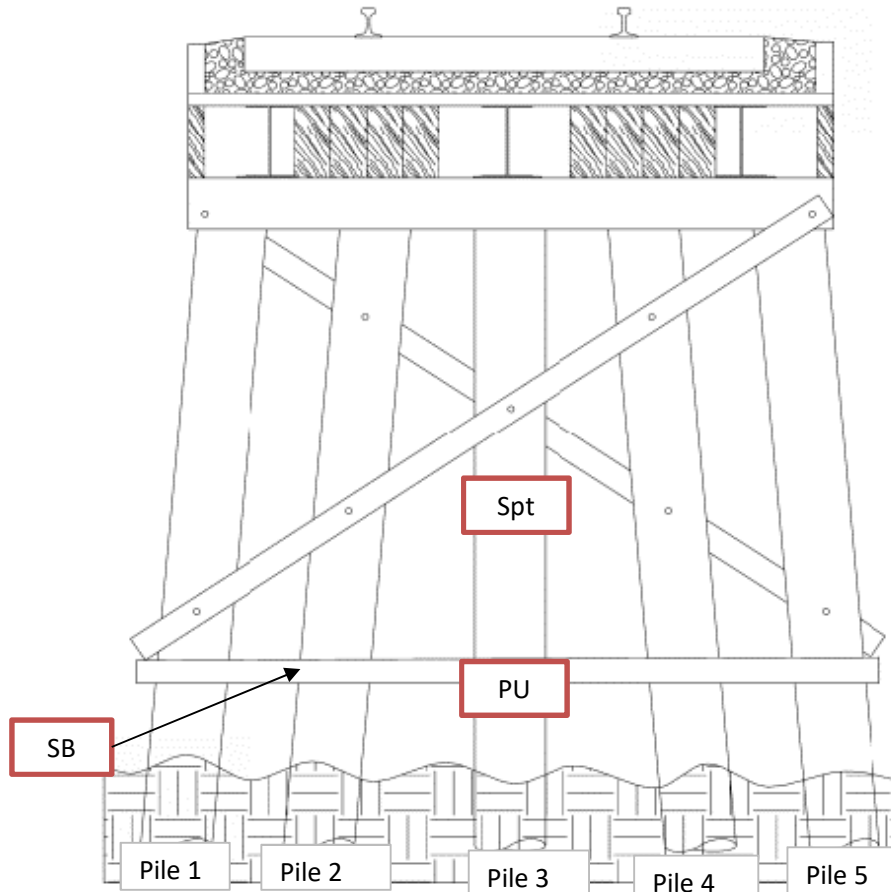
1. Spt, DR-Pile #1, #2 and #3 has vertical split, 2" to 3" shell remaining (2014) - see photo
2. Br-Span #2, tier #1 Sash brace is broken on left side - see photo
3. Spt - Stringer 8 corner split
4. Scour between bents 3 & 4 (4' to 5' max). Worst at bent 3 - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 4	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	420.46
DETAILS - BENT NUMBER: 4			Span Length:	15'



**Description:** (8) 8"x17" timber stringers, timber bent #4, (3) supplemental steel stringers

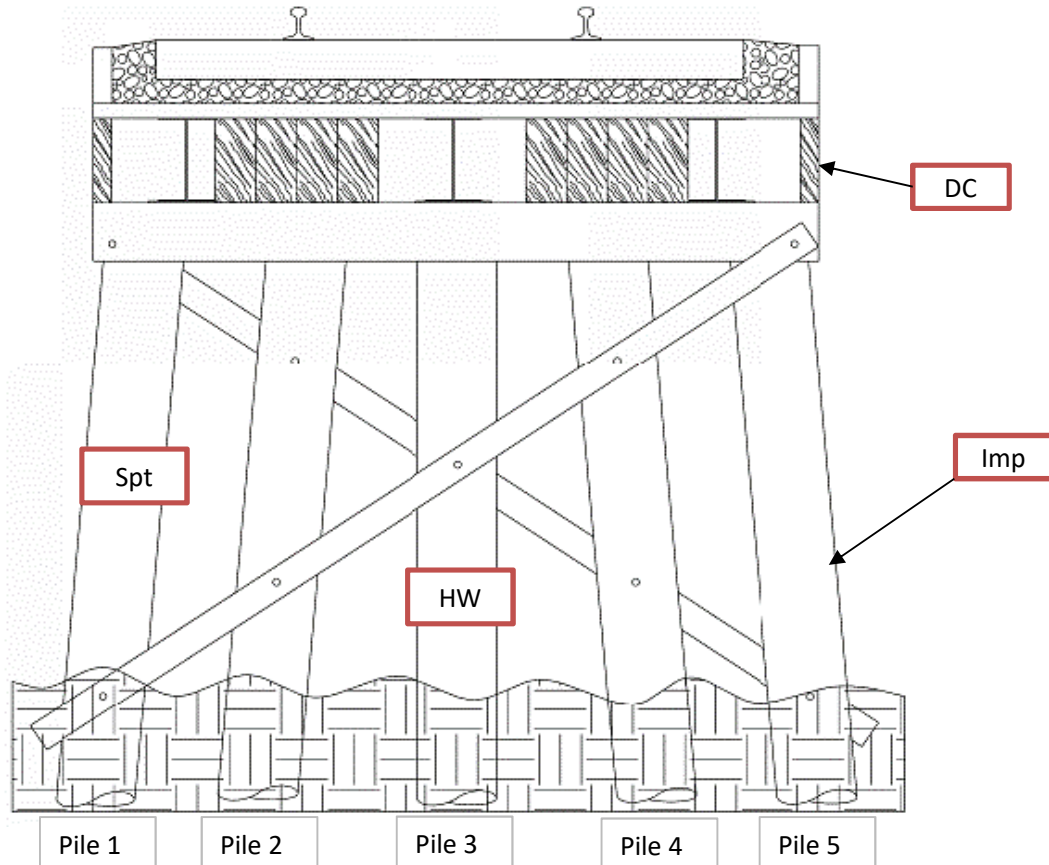
**Remarks:**

1. PU,Spt-Pile #3 is punky and has a vertical split - see photo
2. SB - Sash bracing is not attached - see photo
3. Slope paving undermining downstream. See photo
4. Stringer 2 corner split

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 5	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	420.46
DETAILS - BENT NUMBER: 5			Span Length:	15'



**Description:** (8) 8"x17" timber stringers, (3) supplemental steel stringers, (2) 3-5/8" x 17" ext. timber bent #5

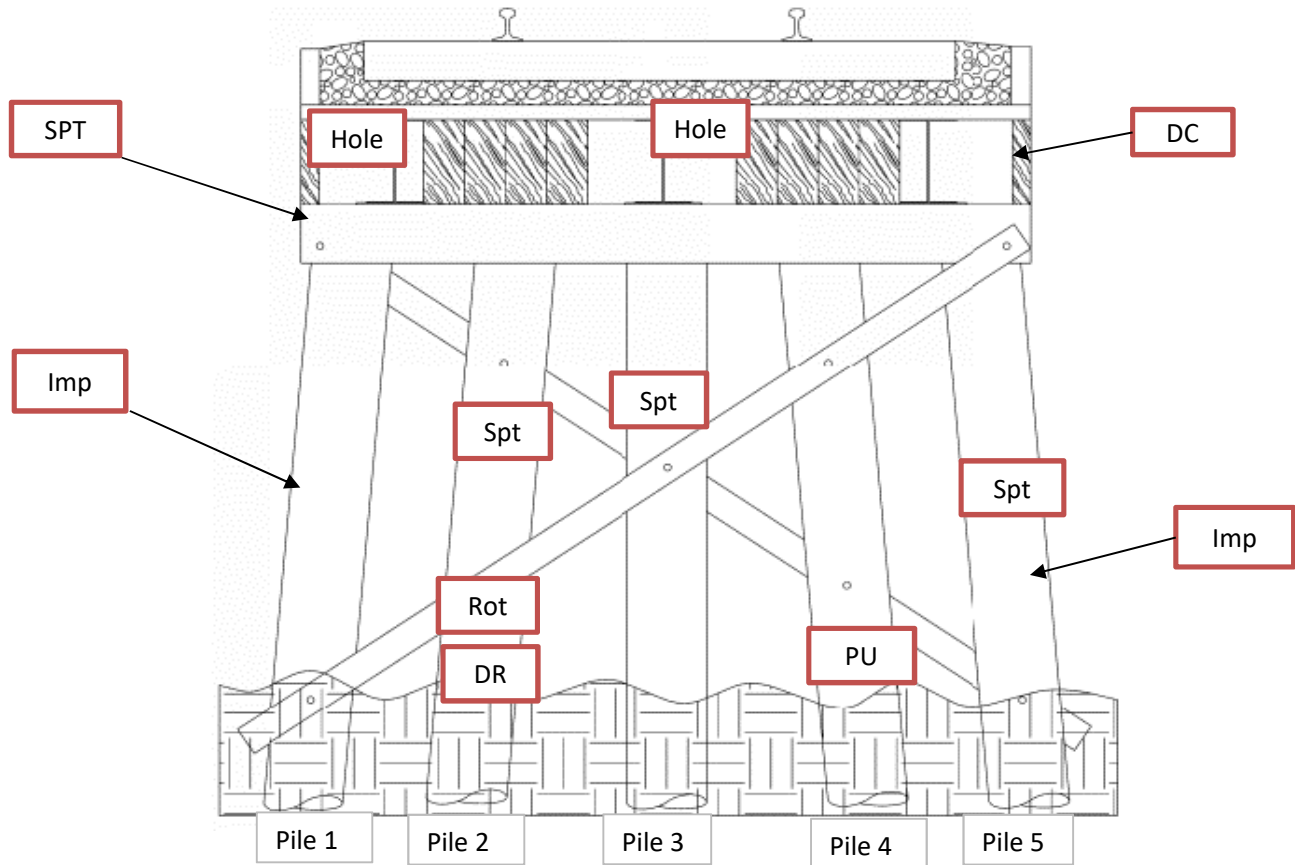
**Remarks:**

1. Spt - Pile #1 split - see photo
2. Imp - Impact damage Pile #5 - see photo
3. HW - Pile #3 is hollow
4. DC - South exterior stringer has deep checking - see photo



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 6	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	420.46
DETAILS - BENT NUMBER: 6			Span Length:	15'



**Description:** (8) 8"x17" timber stringers, (3) supplemental steel stringers, (2) 3-5/8" x 17" ext. timber bent #6

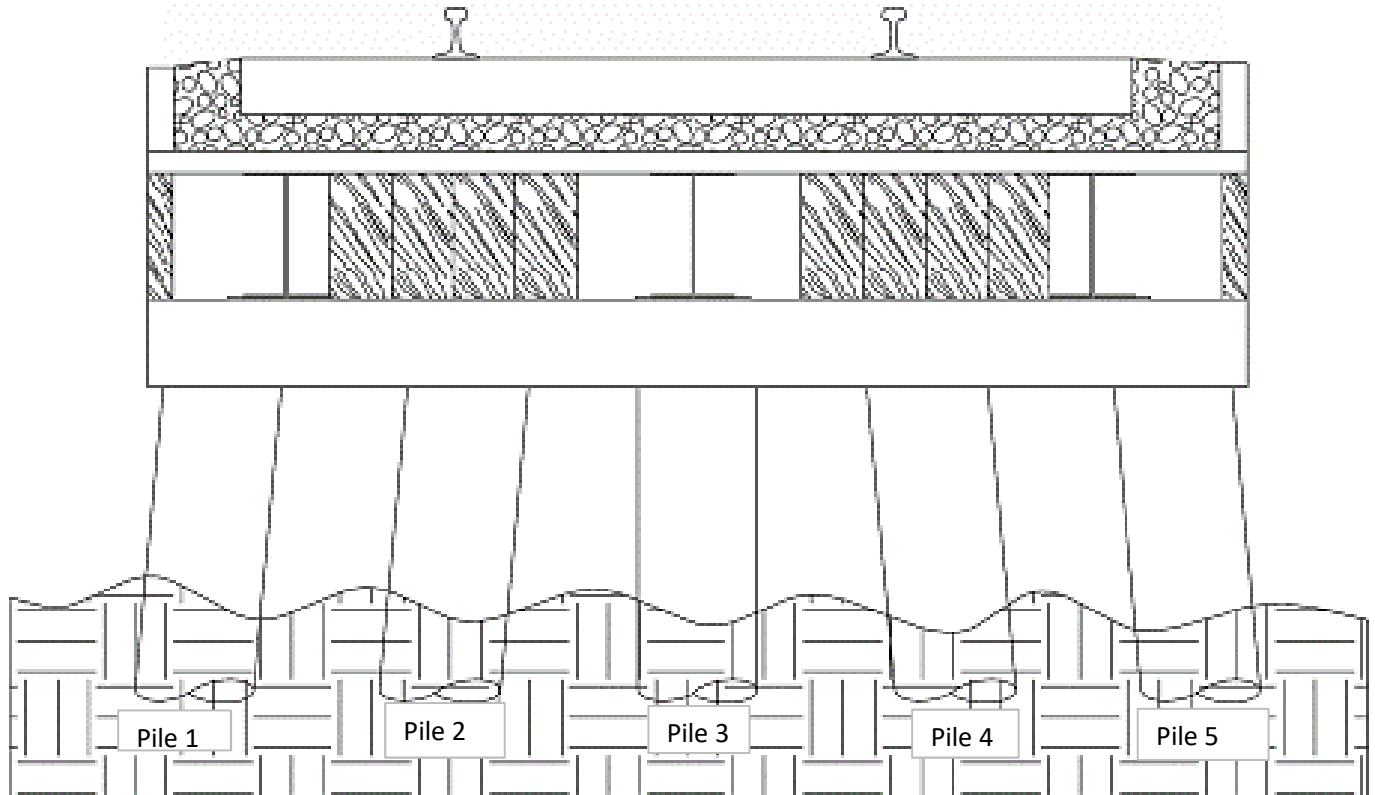
**Remarks:**

1. PU-Pile #4 is punky
2. Rot, DR (2014) - Pile #2 is rotted at bottom, 2" core shell
3. Spt-Piles #2, #3 and #5 have vertical split - see photo
4. SPT - Cap is split - see photo
5. Minor impact pile #1 - see photo
6. DC - South exterior stringer has deep checking - see photo
7. Stringer #5 and #8 is split
8. Sway brace rotten at pile #1 and #5 - see photo
9. Hole - Holes in deck planks - see photo
10. Stringer 4 corner split at midspan.

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT			
Alignment: <b>CURVE</b>	Vert. Clear: <b>Varies</b>	Bridge No.	<b>420.46</b>
DETAILS - ABUT NUMBER: <b>7</b>		Span Length:	



**Description:** (8) 8"x17" timber stringers, (3) supplemental steel stringers, (2) 3-5/8" x 17" exterior timber abutment #7

**Remarks:**

1. Abutment 7 is buried - see photo

## Inspection Photos



**420.46 Looking East**



**420.46 Looking West**



## Inspection Photos



**420.46 Looking North**



**420.46 Looking South**



## Inspection Photos



**420.46 Channel Condition – Looking Upstream**



**420.46 Channel Condition - Looking Downstream**



## Inspection Photos



**420.46 Southwest wing failing**



**420.46 Abutment 1 backwall failed plank's supplement failed**



## Inspection Photos



**420.46 Stringer 4 corner split, Abutment 1**



**420.46 Pile 3 split, Bent 2**

## Inspection Photos



**420.46 Pile 5 split, Bent 2**



**420.46 Span 2, Bent 2 sway brace is broken on right side at pile 5**



## Inspection Photos



**420.46 Span 2 & Bent 3, tier 1 sash brace is broken on left side**



**420.46 Pile 3 vertical split, Bent 3**



## Inspection Photos



**420.46 Scour between Bent 3 and 4**



**420.46 Slope paving undermining downstream of Bent 4**



## Inspection Photos



**420.46 Pile 3 is punky and has a vertical split, Bent 4**



**420.46 Diagonal sash bracing is not attached, Bent 4**



## Inspection Photos



**420.46 Impact damage pile 5, Bent 5**



**420.46 Pile 1 vertical split, Bent 5**



## Inspection Photos



**420.46 Holes in deck planks, Bent 6**



**420.46 Pile 1 minor impact, Bent 6**

## Inspection Photos



**420.46 Pile 5 vertical split, Bent 6**



**420.46 Cap is split, Bent 6**



## Inspection Photos



**420.46 Cross bracing rotten, Bent 6**



**420.46 Spans 5 and 6, south exterior stringer has deep checking**

## Inspection Photos



**420.46 Abutment 7 is buried**



# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 421.05  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream x (unknown creek) Overpass \_\_\_\_\_ Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 2:25 p.m.  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: East and west approaches are low.  
TIES Type: Timber Tie Condition Rating: 3  
 Notes: Poor Condition  
BALLAST Depth: 11 in Ballast Condition Rating: 5  
 Notes: \_\_\_\_\_  
DECK PLANKS Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
OTHER Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 30' Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ x \_\_\_\_\_ Girder \_\_\_\_\_  
 Num Spans 2 Approx. Span Lengths 15'  
 Notes: Ballast Deck Timber Trestle - Built 1897

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent: 5 Type Timber Notes \_\_\_\_\_  
 Abutment: 3 Type concrete Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes Channel is mostly silted in

## OVERALL RATING

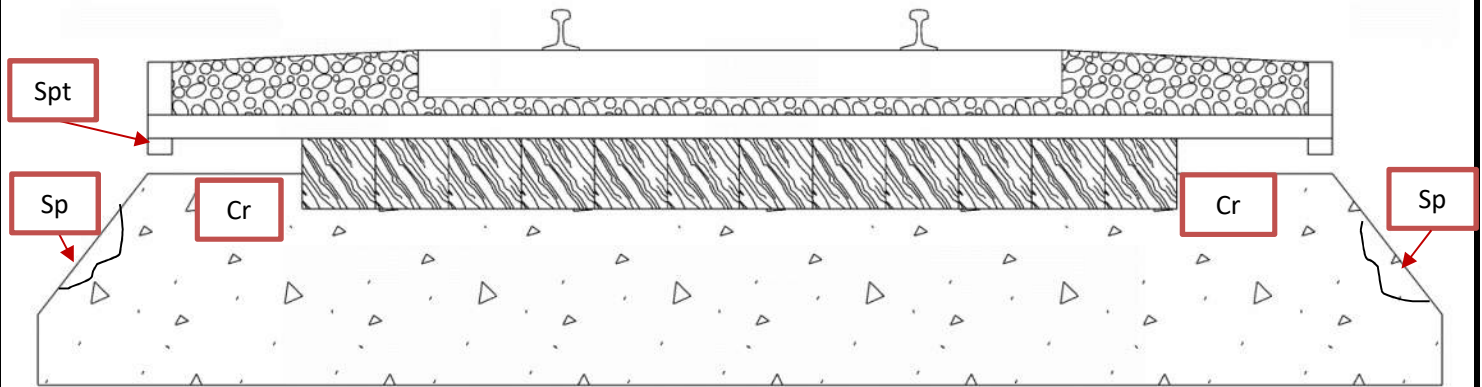
High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority x

[illegible]



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 4'	Bridge No.	421.05
DETAILS - ABUT NUMBER: 1			Span Length:	14' 6"



**Description:** (12) 12"x12" timber stringers, Concrete abutment #1

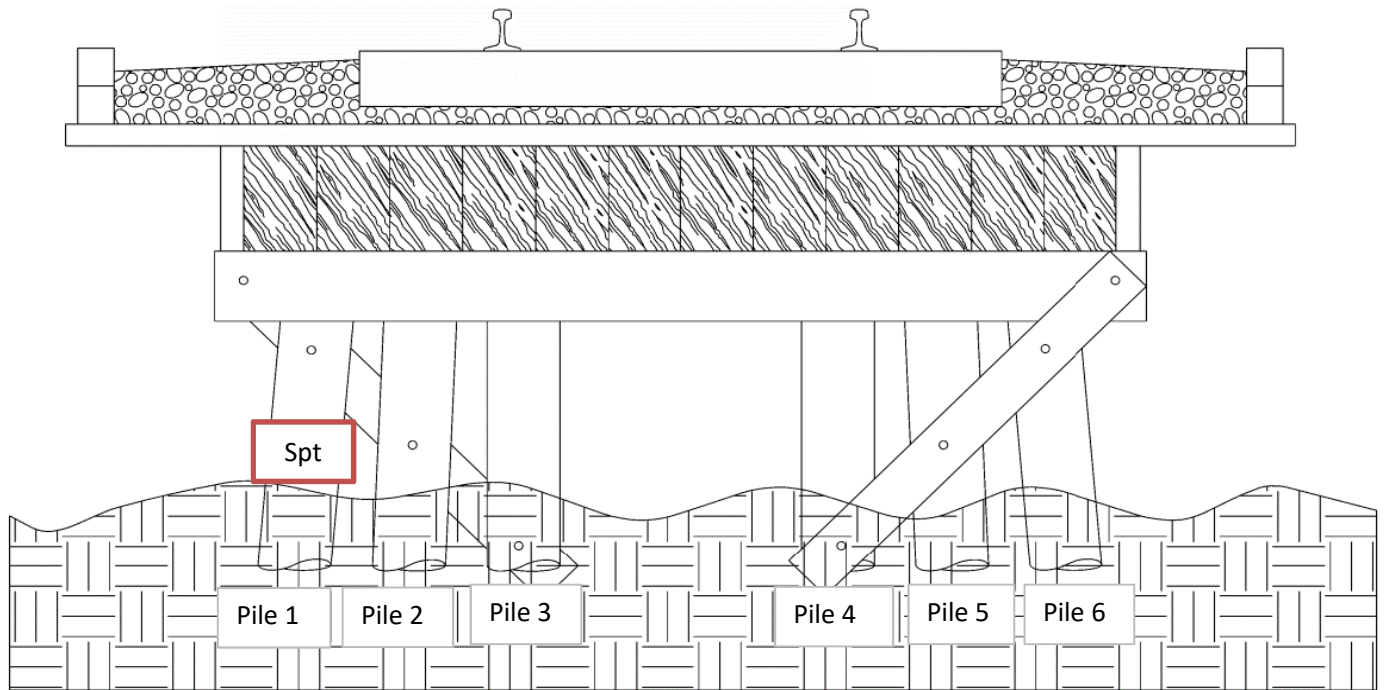
**Remarks:**

1. Cr - Stringer retainer is cracked - see photo
2. SPT - North deck sill splitting at curb bolt - span #1 - see photo
3. Span 1 silting in - see photo
4. SP - Both wingwalls spalled

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: 3'	Bridge No.	421.05
DETAILS - BENT NUMBER: 2			Span Length:	14' 6"



**Description:** (12) 12"x12" timber stringers, Timber framed bent #2

**Remarks:**

1. Spt - Vertical split in pile #1, punky with impact damage on north face -see photo
2. Deep checks bent #2 cap

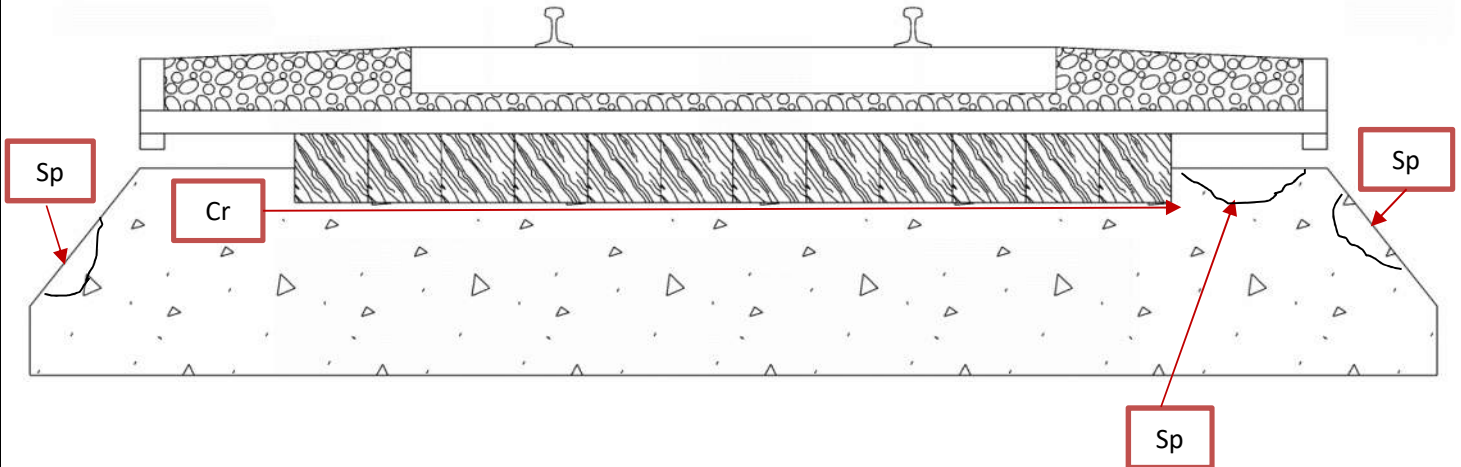
Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT

Span:	Alignment: <b>TANGENT</b>	Vert. Clear: <b>3'</b>	Bridge No.	<b>421.05</b>
DETAILS - ABUT NUMBER: <b>3</b>		Span Length:		



**Description: (12) 12"x12" timber stringers, Concrete abutment #3**

### Remarks:

1. Cr - Stringer retainer is cracked - see photo
2. SP - South stringer retainer spalled
3. SP - Spalls on both wingwalls

Inspected By:

Joseph Holste, PE

Date Inspected:

12/12/2019

## Inspection Photos



**421.05 Looking East**



**421.05 Looking West**



## Inspection Photos



**421.05 Looking North**



**421.05 Looking South**



## Inspection Photos



**421.05 Channel Condition – Looking Upstream**



**421.05 Channel Condition - Looking Downstream**



## Inspection Photos



**421.05 Ballast Curb Undermined all 4 Corners**



**421.05 Abutment stringer retainer cracked – typical all 4 corners**

## Inspection Photos



**421.05 Span 1 silting in**



**421.05 Deck sill splitting – Span 1**



## Inspection Photos



**421.05 Vertical split in Pile 1 – Bent 2**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 421.23  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream x (drainage) Overpass \_\_\_\_\_ Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 2:35 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 5  
**RAIL** Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: Approaches are low. Damaged east rail. North rail horiz misalign 1/2". North rail 1" low across bridge.  
**TIES** Type: Timber Tie Condition Rating: 3  
 Notes: \_\_\_\_\_  
**BALLAST** Depth: 8 in Ballast Condition Rating: 3  
 Notes: Hole in ballast over pipes  
**DECK PLANKS** Type: Timber Condition Rating: 5 Notes: \_\_\_\_\_  
**OTHER** Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 3  
 Type: Culvert: Number barrels 3 Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber 30' Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle x Girder \_\_\_\_\_  
 Num Spans 2 Approx. Span Lengths 15'  
 Notes: Ballast Deck Timber Trestle - Built 1897

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Timber Notes \_\_\_\_\_  
 Abutment: 5 Type Concrete Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes Vegetation needs to be removed at downstream end

## OVERALL RATING

High Priority \_\_\_\_\_ Medium Priority X Low Priority \_\_\_\_\_

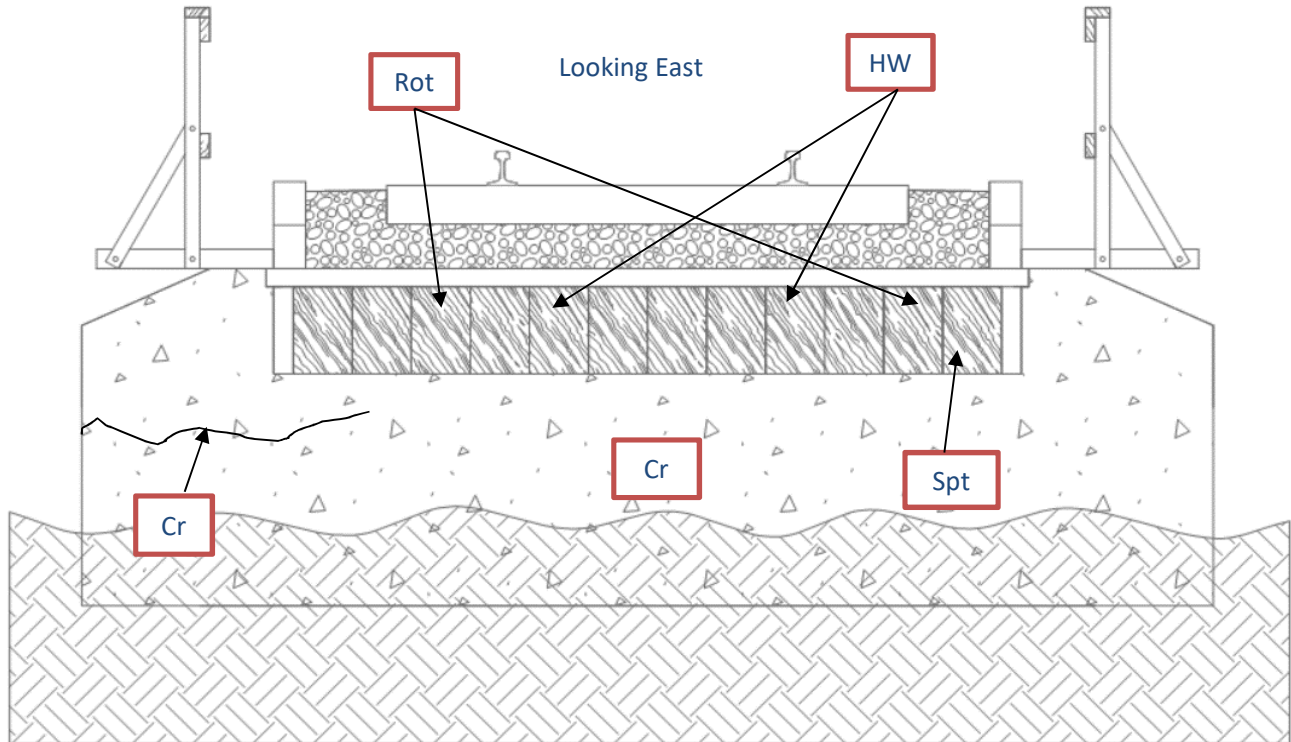


MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	4	Alignment:	Tangent	Vert. Clear:	1.5'	Bridge No.	421.23
No. of Tks:	1	Deck Type:	Ballast	Br. Over:	Drainage	Overall Length:	60'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	5	S01 Stringers	3	B08 Sash Brace		N/A	
E02 Channel	3	S02 Line Bolts	N/A	B09 Long Brace		N/A	
E03 Approach	3	S03 Bearing @ Cap	5	B10 Cap Long Brace		N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	N/A	B01 West Backwall & Wingwalls	5	M01			
D02 Ties Spacers	N/A	B02 East Backwall & Wingwalls	5	M02			
D03 Rail	3	B03 Caps	5	M03			
D04 Ballast Floor	3	B04 Piles	N/A	M04			
D05 Ballast Retainer	3	B05 Framed Bents	5	Overall Rating:		3	
D06 Footwalk	4	B06 Posts	5				
D07 Handrail	4	B07 Cross Braces	5				
<b>COMMENTS</b>							
Reference	Remark						
7	Last two spans are covered with concrete and in between spans 3 - 42" culverts were added						
Walkway	Walkway extension planks are in poor condition and handrail is loose on both sides - see photo						
Walkway	South walkway rotten						
Utility	Pipe crossing under bridge on right side						
Ballast	Low ballast, hole in ballast, fouled ballast - see photo						
Handrail	North handrail post broken (3rd from west end)						
Channel	Debris covering pipe opening						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E02, B	Clean channel downstream						
E03, B	Raise approaches both ends						
D03	Replace rail with heavier section as tonnage dictates						
D06, A	Repair walkway						
D07, A	Repair handrail						
S01, B/C, M	Replace stringers on span #1 & #2 in 1 to 3 years. Monitor if condition worsens						
	and raise priority						
D04, B	Increase ballast depth to 12 in minimum						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/12/2019	

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE / CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 1.5'	Bridge No.	421.23
DETAILS - ABUT NUMBER: 1			Span Length:	15'



**Description:** (12) 12"x12" timber stringers, Concrete abutment #1

**Remarks:**

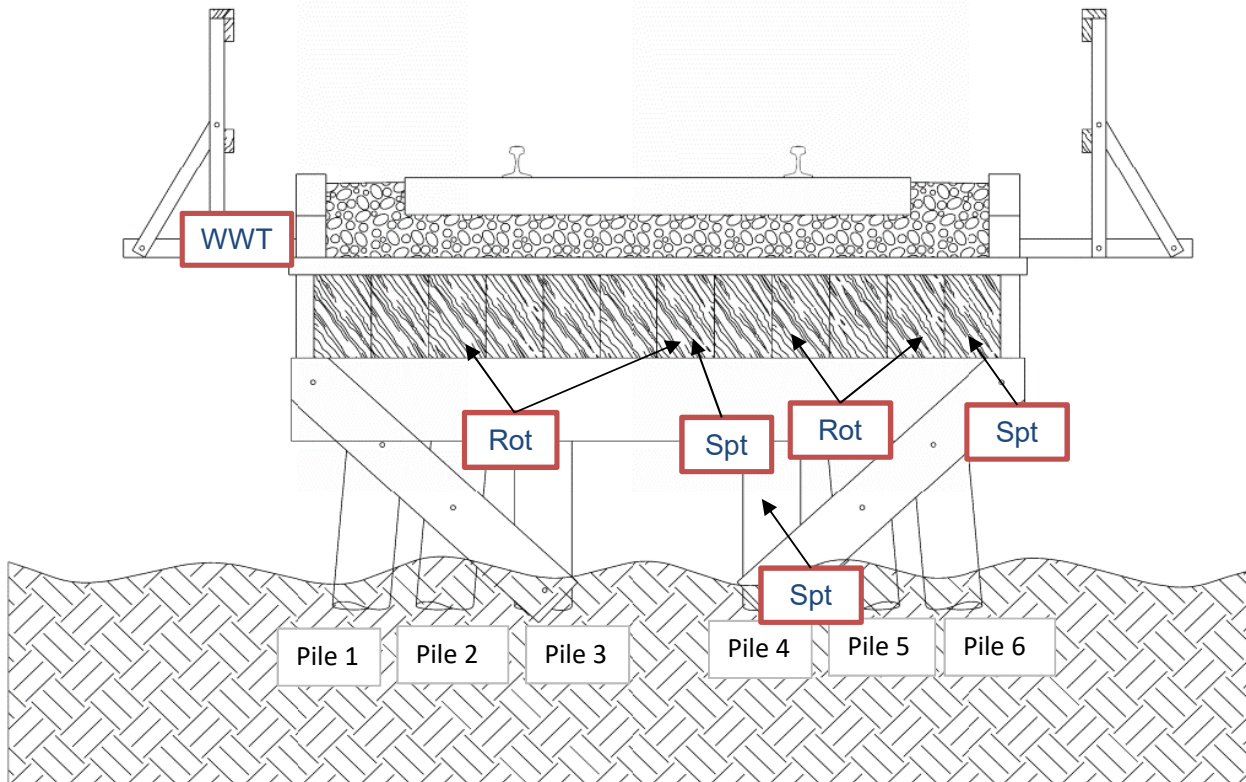
1. Rot-Stringers #3 and #11 are rotted
2. HW-Stringers #5 and #9 are hollow
3. Cr-Abutment #1 has minor cracking
4. Spt - Stringer #12 split
5. Cr-Horizontal crack on north side abutment
6. Span 1 silted in with 1'-2' clearance

Inspected By:	Joseph Holste, PE	Date Inspected:	12/12/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 2	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	421.23
DETAILS - BENT NUMBER: 2			Span Length:	15'



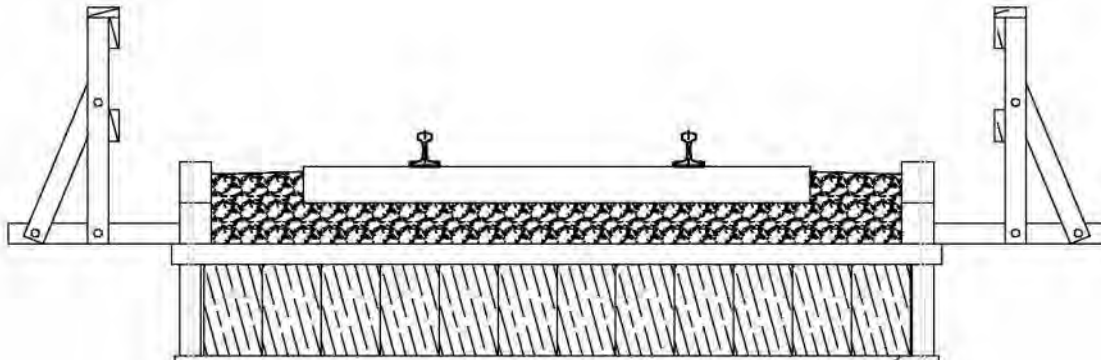
**Description:** (12) 12"x12" timber stringers, Timber Bent #2

**Remarks:**

1. Rot-Stringers #3, #7, #9 and #11 are rotten
2. WWT-Multiple walkway timbers are broken causing safety hazard
3. Spt - Pile #4 is split - see photo
4. Spt - Stringer #12 is split/checking - see photo
5. Spt - Stringer #7 is split

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER BENT				
Span: 3	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	421.23
DETAILS - BENT NUMBER: 3			Span Length:	15'



**42" CULVERTS HAVE BEEN INSTALLED**

PILE 1 PILE 2 PILE 3 PILE 4 PILE 5 PILE 6

**Description:**

1. Spans #3 and #4 are filled with low yield slurry, 3-42" pipes. Appears cap, stringers and post left in place.
2. Potential long term issues will develop if stringers and caps for Bents #3, #4 and Abutment #5 were left in place
3. Concrete encasement failing. Material is loose when struck with hammer



[illegible]

[illegible]



## Inspection Photos



**421.23 Looking East**



**421.23 Looking West**



## Inspection Photos



**421.23 Looking North**



**421.23 Looking South**



## Inspection Photos



**421.23 Channel Condition – Looking Upstream**



**421.23 Channel Condition – Looking Downstream**



## Inspection Photos



**421.23 Loose Handrail Cable Both Sides**



**421.23 Hole in Ballast**



## Inspection Photos



**421.23 Walkway Timbers Broken on North Side Span 2**



**421.23 South walkway rotten**

## Inspection Photos



**421.23 Horizontal Crack in North Side Abutment 1**



**421.23 Pile #4 Splitting, Bent 2**



## Inspection Photos



**421.23 Stringer 12 Splitting, Span 2**



**421.23 Concrete Encased Bent 3**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 422.53  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream x (drainage) Overpass \_\_\_\_\_ Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 3:05 PM  
 Inspector Name Joseph Holste PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: open Number of Tks 1 Visual Condition Rating 5  
**RAIL** Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: East and west approaches are low. West approach horizontal misalignment  
**TIES** Type: Timber Tie Condition Rating: 5  
 Notes: ties not anchored with j-bolts  
**BALLAST** Depth: N/A Ballast Condition Rating: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
**DECK PLANKS** Type: N/A Condition Rating: \_\_\_\_\_ Notes: \_\_\_\_\_  
**OTHER** Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel 15' Timber \_\_\_\_\_ Concrete \_\_\_\_\_  
 Type: Truss \_\_\_\_\_ Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ Girder \_\_\_\_\_  
 Num Spans 1 Approx. Span Lengths 15'  
 Notes: Steel I-beam - Built 1941

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Abutment: 5 Type Sandstone Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating N/A  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes \_\_\_\_\_

## OVERALL RATING

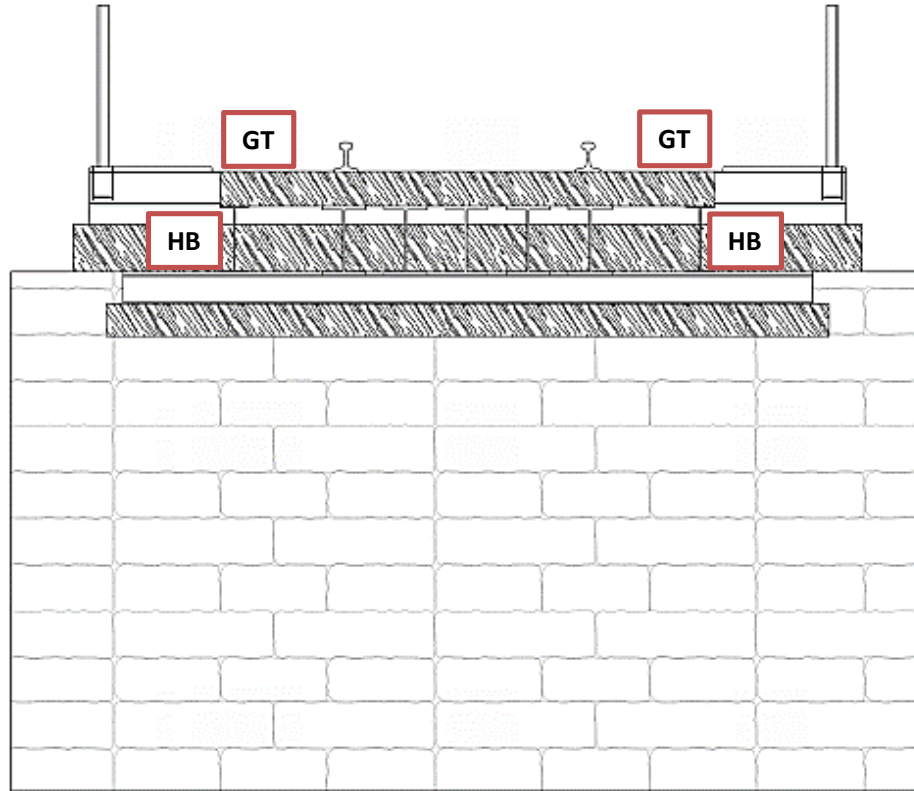
High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority X



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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STONE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 12'	Bridge No.	422.53
DETAILS - ABUT NUMBER: 1			Span Length:	13'4"



**Description:** Looking west - (7) I beam stringers, sandstone abutment #1

**Remarks:**

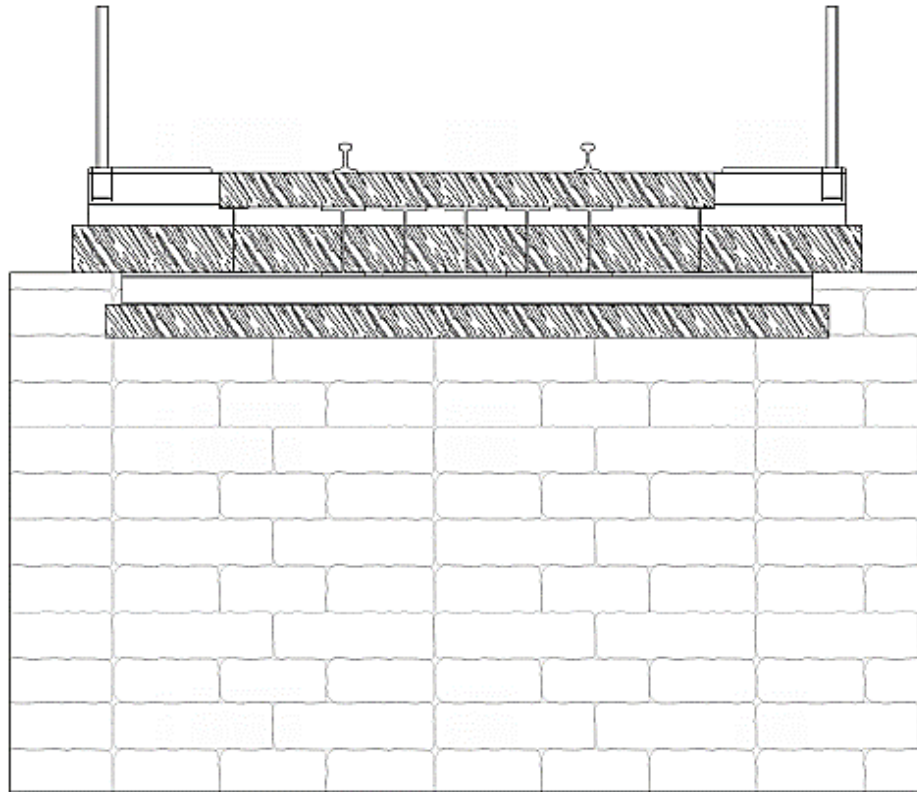
1. HB - No hook bolts attaching ties to Steel Stringers
2. GT - No Guard Timber
3. Southwest ballast curb undermined - see photo



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STONE ABUTMENT

Span:	Alignment: TANGENT	Vert. Clear: 12'	Bridge No.	422.53
DETAILS - ABUT NUMBER: 2			Span Length:	



**Description:** Looking west - (7) I beam stringers, sandstone abutment #2

### Remarks:

1. Southeast wingwall blocks loose

## Inspection Photos



**422.53 Looking East**



**422.53 Looking West**



## Inspection Photos



**422.53 Looking North**



**422.53 Looking South**

## Inspection Photos



**422.53 Upstream channel condition**



**422.53 Downstream channel condition**



## Inspection Photos



**422.53 Southwest ballast curb undermined**



**422.53 Southeast Wingwall Blocks Loose**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 422.89  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream x (drainage) Overpass            Other             
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 12-Dec-19 Time 3:15 PM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 3  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 3  
 Notes: East and west approaches are low  
TIES Type: Timber Tie Condition Rating: 3  
 Notes: Multiple split ties  
BALLAST Depth: 13 in Ballast Condition Rating: 3  
 Notes: Low and Fouled Ballast  
DECK PLANKS Type: N/A Condition Rating:            Notes:             
OTHER Type: Concrete deck Condition Rating: 5

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels            Round or Rect            Size             
 Approx Lngth.            Concrete            Steel             
 Bridge: Steel 12' Timber            Concrete             
 Type: Truss            Deck Girder            Through             
 Trestle            Girder             
 Num Spans 1 Approx. Span Lengths 12'  
 Notes: Rail Stringers encased in concrete - built 1915

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent:            Type            Notes             
 Abutment: 5 Type Concrete Notes             
 Wingwalls:            Type            Notes             
 Embank            Type            Notes             
 Footing            Type            Notes             
 Inaccessible areas:           

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes             
            
          

## OVERALL RATING

High Priority            Medium Priority            Low Priority X

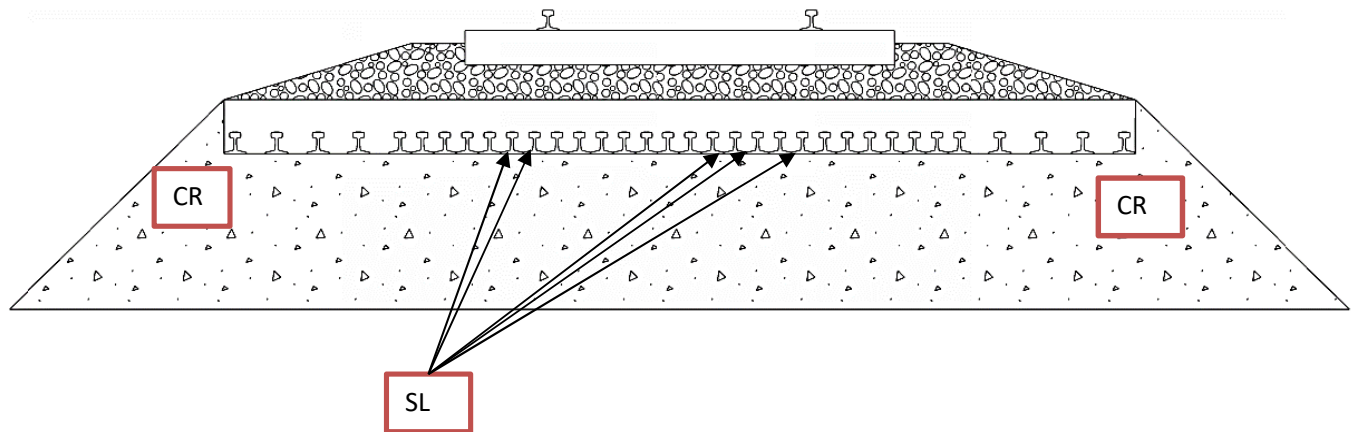


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MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT

Span: 1	Alignment: CURVE	Vert. Clear: 4'	Bridge No.	422.89
DETAILS - ABUT NUMBER: 1			Span Length:	12'



**Description: (36) Rail Stringers encased in concrete, concrete abutment #1**

### Remarks:

1. Cr - Minor abutment cracking
2. Surface rust on rail top stringers
3. Efflorescence underside railtop slab - see photo
4. Abutment wall scaling - see photo
5. SL - Section loss at rail stringers 10, 11, 20, 21, and 23 - see photo

Inspected By:

Joseph Holste, PE

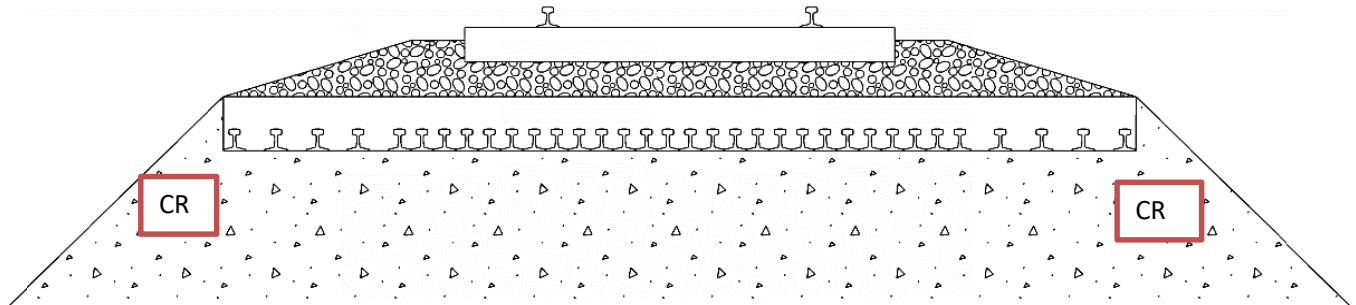
Date Inspected:

12/12/2019



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span:	Alignment: <b>CURVE</b>	Vert. Clear: <b>4'</b>	Bridge No.	<b>422.89</b>
DETAILS - ABUT NUMBER: <b>2</b>		Span Length:		



**Description: (36) Rail Stringers encased in concrete, concrete abutment #2**

**Remarks:**

1. Cr - Minor abutment cracking -see photo
2. Abutment wall scaling - see photo

## Inspection Photos



**422.89 Looking East**



**422.89 Looking West**



## Inspection Photos



**422.89 Looking North**



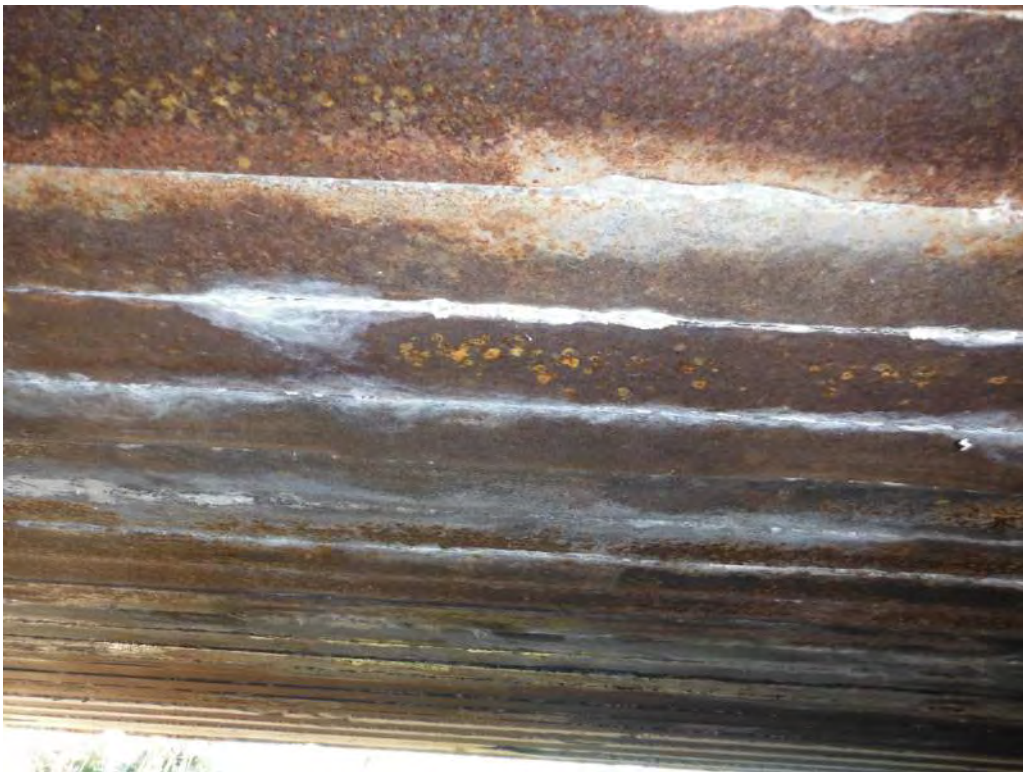
**422.89 Looking South**



## Inspection Photos



**422.89 Efflorescence on rail top superstructure**



**422.89 Section loss at rail stringers 10, 11, 20, 21, and 23**



## Inspection Photos



**422.89 Abutment 2 cracking – cracking typical both sides each Abutment**



**422.89 Abutment scaling – typical each Abutment**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 423.28  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream x (Sespe creek) Overpass \_\_\_\_\_ Other \_\_\_\_\_  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 13-Dec-19 Time 9:15 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open Number of Tks 1 Visual Condition Rating 5  
**RAIL** Weight: 113# Type: Welded Visual Condition Rating: 3  
 Notes: East and west approaches are low.  
**TIES** Type: Timber Tie Condition Rating: 5  
 Notes: \_\_\_\_\_  
**BALLAST** Depth: N/A Ballast Condition Rating: \_\_\_\_\_  
 Notes: \_\_\_\_\_  
**DECK PLANKS** Type: N/A Condition Rating: \_\_\_\_\_ Notes: \_\_\_\_\_  
**OTHER** Type: \_\_\_\_\_ Condition Rating: \_\_\_\_\_

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels \_\_\_\_\_ Round or Rect \_\_\_\_\_ Size \_\_\_\_\_  
 Approx Lngth. \_\_\_\_\_ Concrete \_\_\_\_\_ Steel \_\_\_\_\_  
 Bridge: Steel \_\_\_\_\_ Timber \_\_\_\_\_ Concrete \_\_\_\_\_  
 Type: Truss 211' Deck Girder \_\_\_\_\_ Through \_\_\_\_\_  
 Trestle \_\_\_\_\_ Girder \_\_\_\_\_  
 Num Spans 1 Approx. Span Lengths 211'  
 Notes: Thru Truss - Built 1903

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Abutment: 5 Type stone Notes \_\_\_\_\_  
 Wingwalls: \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Embank \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Footing \_\_\_\_\_ Type \_\_\_\_\_ Notes \_\_\_\_\_  
 Inaccessible areas: \_\_\_\_\_

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 0 Scour Evidence no Moving Water no  
 Notes \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## OVERALL RATING

High Priority \_\_\_\_\_ Medium Priority \_\_\_\_\_ Low Priority x

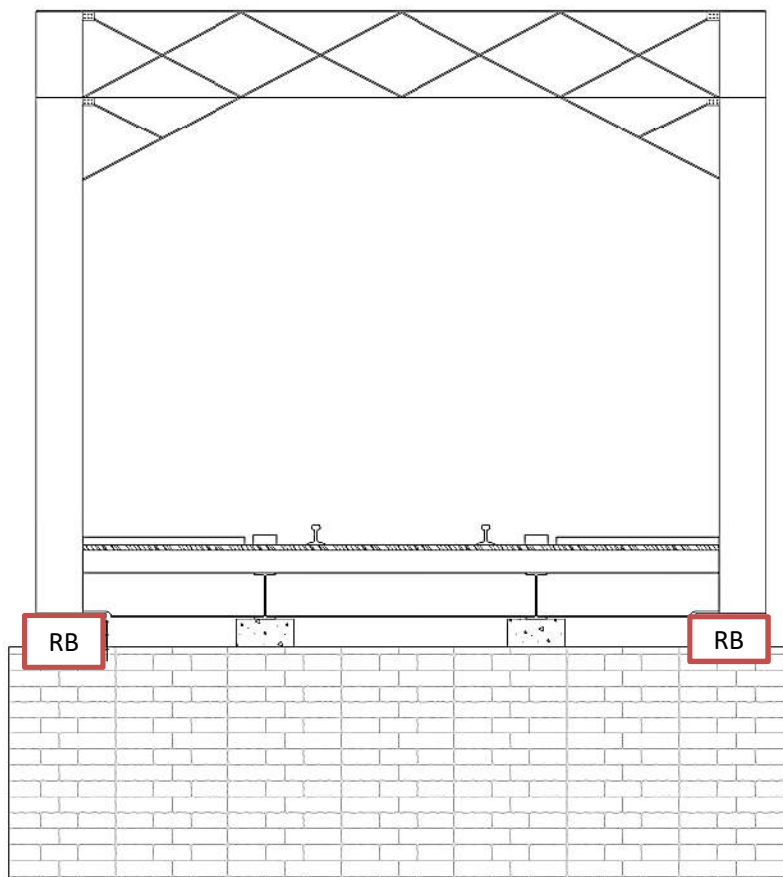


MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE							
Spans:	1	Alignment:	Tangent	Vert. Clear:	15'	Bridge No.	423.28
No. of Tks:	1	Deck Type:	Open	Br. Over:	Sespe Crk	Overall Length:	200'
<b>ENVIRONMENT</b>		<b>GIRDERS</b>		A06 Pier Shaft		N/A	
E01 Scour	5	S01 Girder	5	A07			
E02 Channel	5	S02 Top Lateral Braces	5	A08			
E03 Approach	3	S03 Bottom Lateral Braces	5	A09			
<b>DECK</b>		S04 Cross Braces	5	<b>MISC. OTHER</b>			
D01 Ties (OD only)	5	S05 Bearings	3	M01			
D02 Ties Spacers	5	<b>ABUTMENTS &amp; PIERS</b>		M02			
D03 Rail	3	A01 East Abutment	5	M03			
D04 Footwalk	5	A02 East Wingwalls	5	M04			
D05 Handrail	3	A03 West Abutment	5	Overall Rating:		5	
D06 Floor Beams	5	A04 West Wingwalls	5				
D07 Ballast Curb	N/A	A05 Pier Cap	N/A				
<b>COMMENTS</b>							
Reference	Remark						
Approach	East and west approaches are low						
Handrail	Handrail cable is loose on north side						
Structure	Paint failure/minor surface rust						
Curb	Damaged timber curb west and east side, north east corner is worst - see photo						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
E03, B	Raise approaches						
D05, A	Repair handrail cable north side						
S05, B/C, M	Clean bearings. Monitor condition and raise priority if necessary						
	Bearings may need to be replaced						
A03, A	Remove bees at abutment 1						
D03	Increase rail with heavier section as tonnage dictates						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge				-			
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/13/2019	

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/STONE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 15'	Bridge No.	423.28
DETAILS - ABUTMENT NUMBER: 1			Span Length:	200'



**Description: Steel Thru Truss, Stone Abutment**

**Remarks:**

1. Sign of minor impact lateral brace Bay #1
2. RB-Left and right side west end bearings rocked, anchor bolt racked - see photo
3. Both bearings at the limit of expansion
4. Bee nest at north end of abutment cap
5. Map cracking on northside of backwall - see photo
6. Bolt missing at bridge rollers at north west bearing, abutment 1 expanded - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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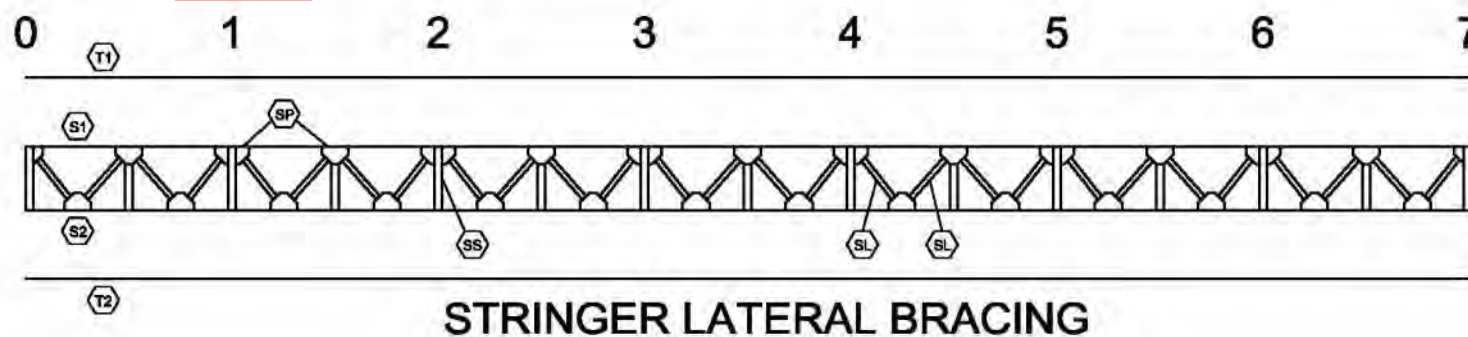
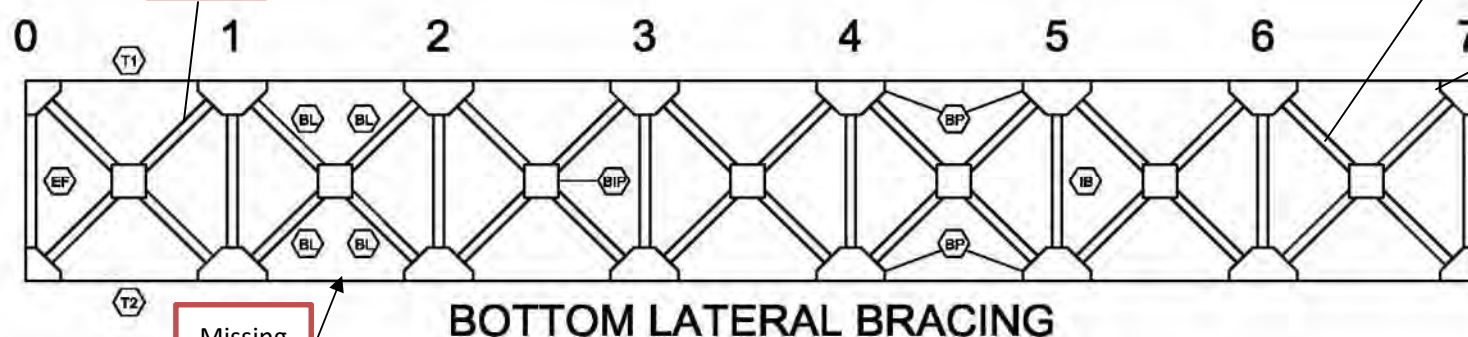
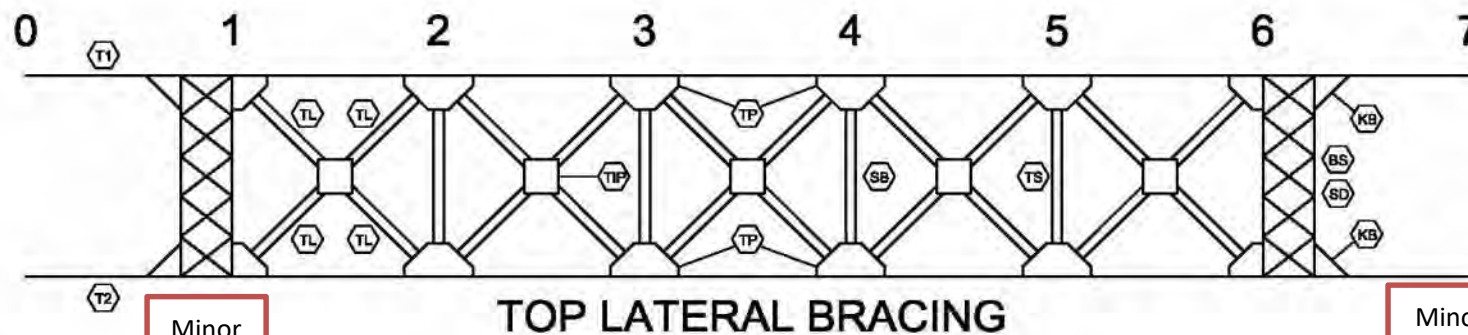




**Bridge Number:** 423.28

**SPAN 1 - PLAN VIEW**

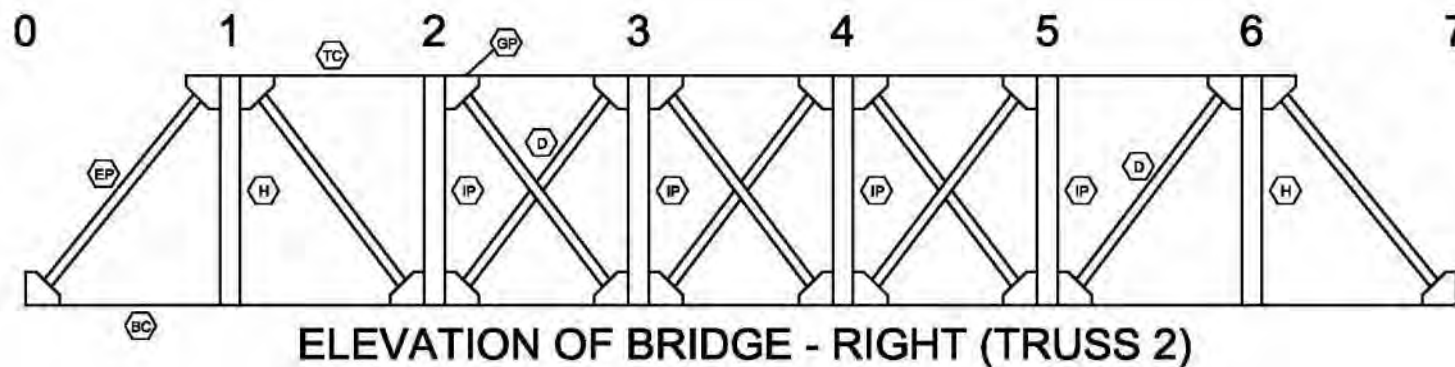
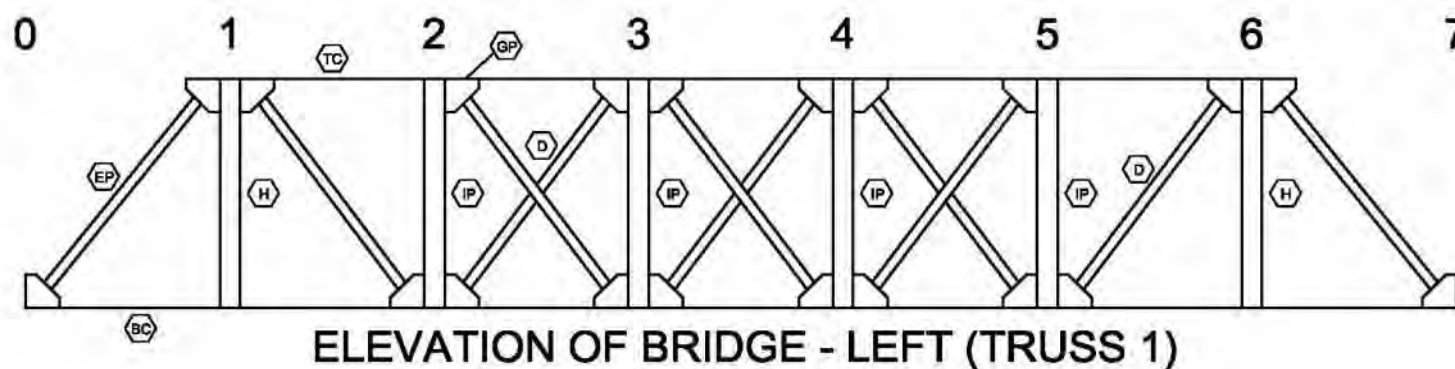
**INSPECTION FINDINGS**





**SPAN 1 - ELEVATION VIEW**

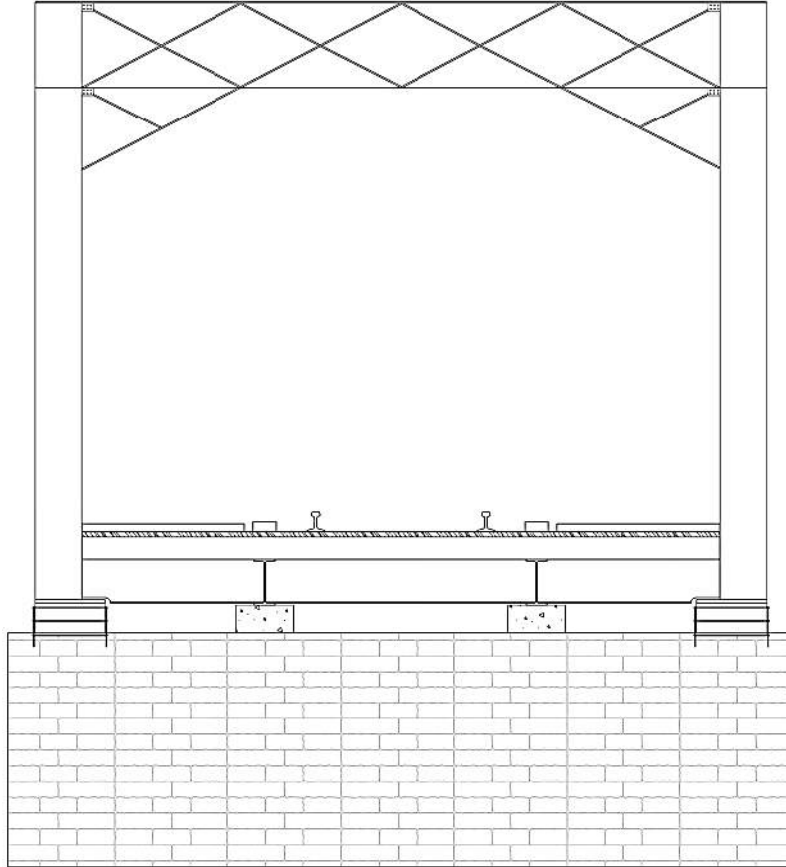
**INSPECTION FINDINGS**



MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/STONE ABUTMENT

Span:	Alignment: TANGENT	Vert. Clear: 15'	Bridge No.	423.28
DETAILS - ABUTMENT NUMBER: 2			Span Length:	



**Description: Steel Thru Truss, Stone Abutment #2**

### Remarks:

1. Missing SW anchor bolt at north bearing - see photo
2. Missing NW anchor at south bearing - see photo
3. Anchor at north stringer is pushed back

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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## Inspection Photos



**423.28 Looking East**



**423.28 Looking West**



## Inspection Photos



**423.28 Looking North**



**423.28 Looking South**



## Inspection Photos



**423.28 Channel Condition – Looking Upstream**



**423.28 Channel Condition – Looking Downstream**



## Inspection Photos



**423.28 Damaged timber curb west and east side, typ**



**423.28 No gap between end of stringer and backwall – Abutment 1**



## Inspection Photos



**423.28 Abutment 1 bearings rocked**



**423.28 Minor impact damage to cross bracing near Abutment 1**

## Inspection Photos



**423.28 Map cracking Northside of backwall - Abutment 1**



**423.28 Bolt missing at Northwest bearing bridge rollers**



## Inspection Photos



**423.28 Missing rivet near Bay 2 bottom chord**



**423.28 Impact damage to bottom chord lattice bracing at bay 7**

## Inspection Photos



**423.28 Minor impact damage to cross bracing near Abutment 2**



**423.28 North bearing, Abutment 2 – Missing SW anchor**



## Inspection Photos



**423.28 South bearing, Abutment 2 – Missing NW anchor**



INSPECTION TYPE:	Annual
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## INSPECTION INFORMATION

Date	13-Dec-19	Time	10:10 AM
Inspector Name	Joseph Holste, PE		
Telephone Number	303-501-1215		
Company	Wilson & Company		

Company **Wilson & Company**

Type:	<u>Ballast</u>	Number of Tks	<u>1</u>	Visual Condition Rating	<u>5</u>
<b><u>RAIL</u></b>	Weight:	<u>80#</u>	Type:	<u>Jointed</u>	Visual Condition Rating: <u>3</u>
	Notes:	<u>Low west approach. Slight horizontal misalignment across bridge</u>			
<b><u>TIES</u></b>	Type:	<u>Timber</u>	Tie Condition Rating:	<u>5</u>	
	Notes:				
<b><u>BALLAST</u></b>	Depth:	<u>12 in</u>	Ballast Condition Rating:	<u>3</u>	
	Notes:	<u>Low ballast across bridge</u>			
<b><u>DECK PLANKS</u></b>	Type:	<u>N/A</u>	Condition Rating:	<u></u>	Notes: <u></u>
<b><u>OTHER</u></b>	Type:	<u></u>	Condition Rating:	<u></u>	<u></u>

Visual Condition Rating	<u>5</u>	
Type:	Culvert: Number barrels <u>          </u>	Round or Rect <u>          </u> Size <u>          </u>
	Approx Lngth. <u>          </u>	Concrete <u>          </u> Steel <u>          </u>
Bridge:	Steel <u>          </u>	Timber <u>          </u> Concrete <u>450'</u>
Type:	Truss <u>          </u>	Deck Girder <u>          </u> Through <u>          </u>
	Trestle <u>          </u>	Girder <u>          </u>
	Num Spans <u>15</u>	Approx. Span Lengths <u>30'</u>
Notes:	Concrete double box girder - built 1969	

Visual Condition Rating		5			
Bent:	5	Type	Concrete	Notes	Steel piles
Abutment:	5	Type	Concrete	Notes	Steel piles
Wingwalls:		Type		Notes	
Embank		Type		Notes	
Footing		Type		Notes	
Inaccessible areas:					

Visual Condition Rating 5  
Stream Depth 3' to 5' Scour Evidence yes Moving Water yes  
Notes Local scour at individual bents

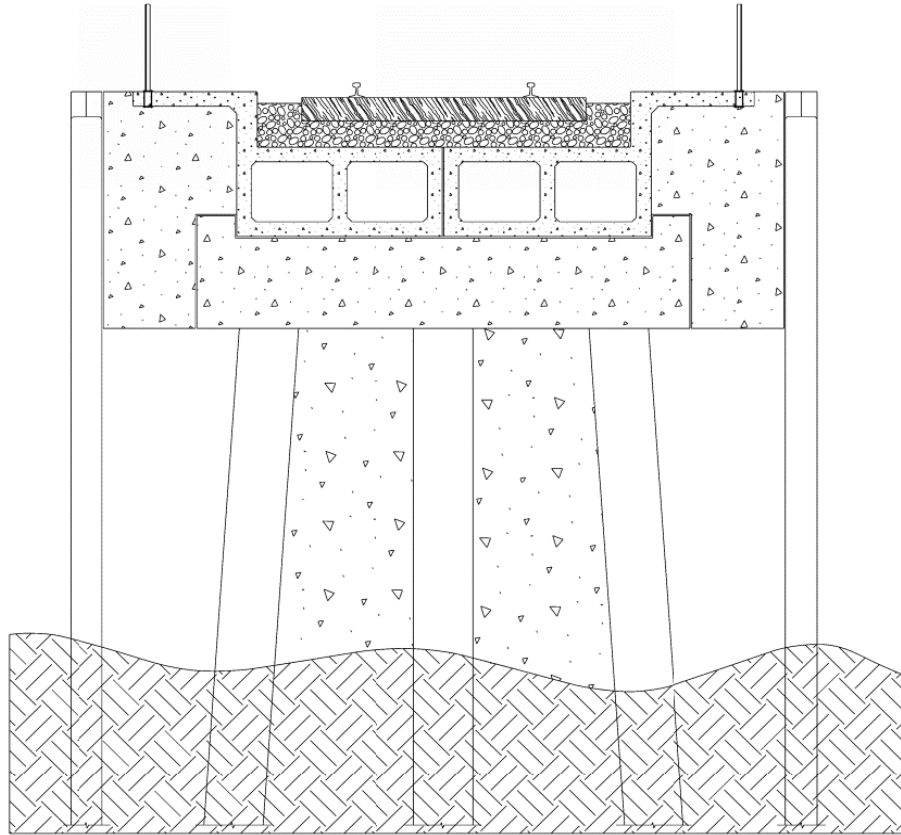
High Priority	Medium Priority	Low Priority	X
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[illegible]

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE/CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - ABUT NUMBER: 1			Span Length:	29'-10"



**Description: Looking East (2) 80"x30" Concrete box, concrete abutment with steel piles**

**Remarks:**

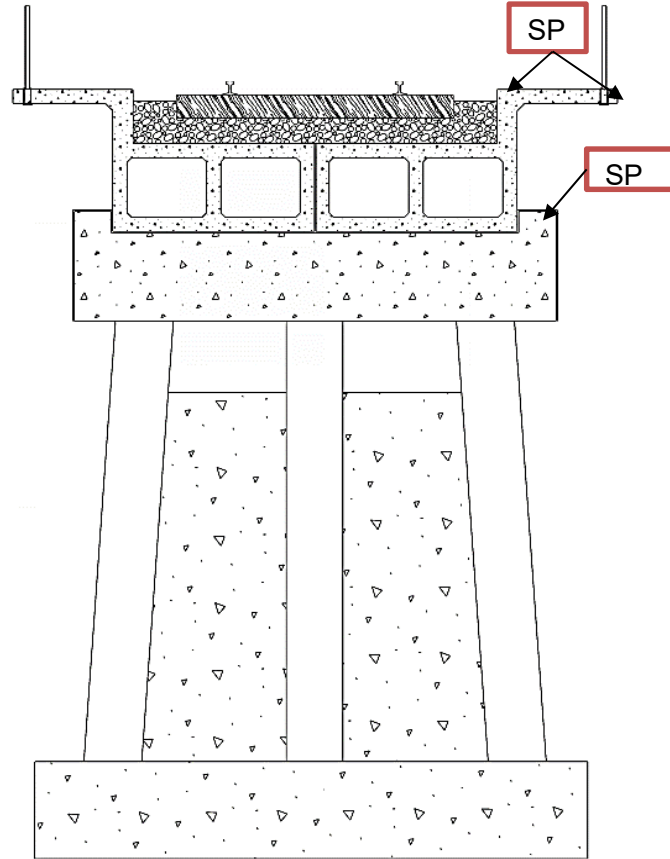
1. Moderate abutment scour - 7' pile exposed - southwest wingwall more exposed - see photo
2. Tree under abutment - see photo
3. Span 1 Impact Damage - see photo
4. Deep erosion from heavy water on north slope - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 2	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 2			Span Length:	29'-10"



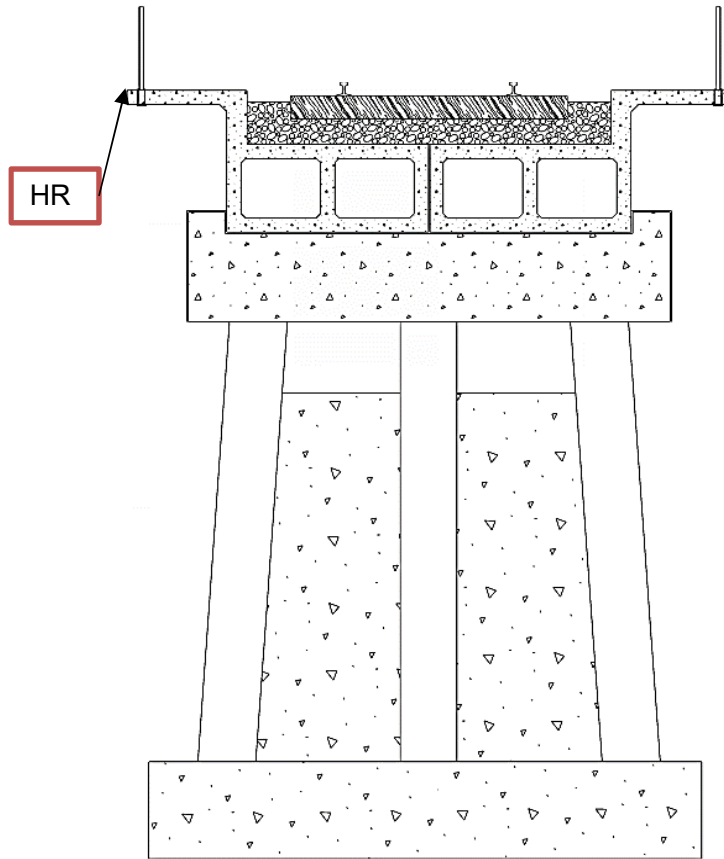
**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

1. 2' scour under cap - see photo
2. SP - Keeper spall on south side - see photo
3. SP - Walkway spall - see photo

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 3	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 3			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

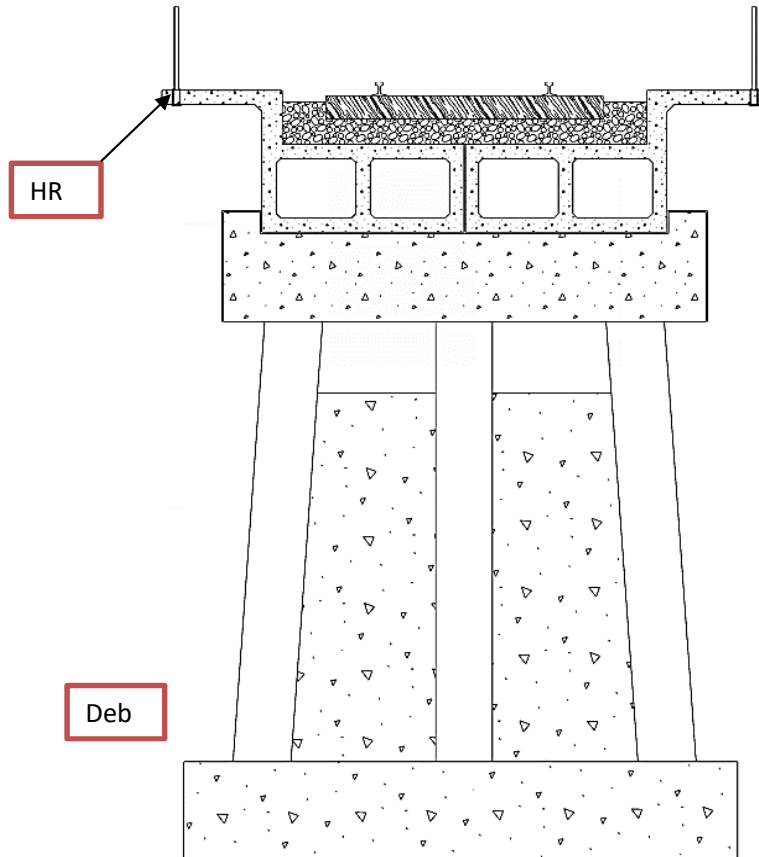
1. 3' of scour below concrete infill between piles
2. Span 3 curb spall on topside
3. Walkway spall near pier 3 at handrail post on topside
4. HR - Handrail embed failed on topside. Post now held with thru bolts - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 4	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 4			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

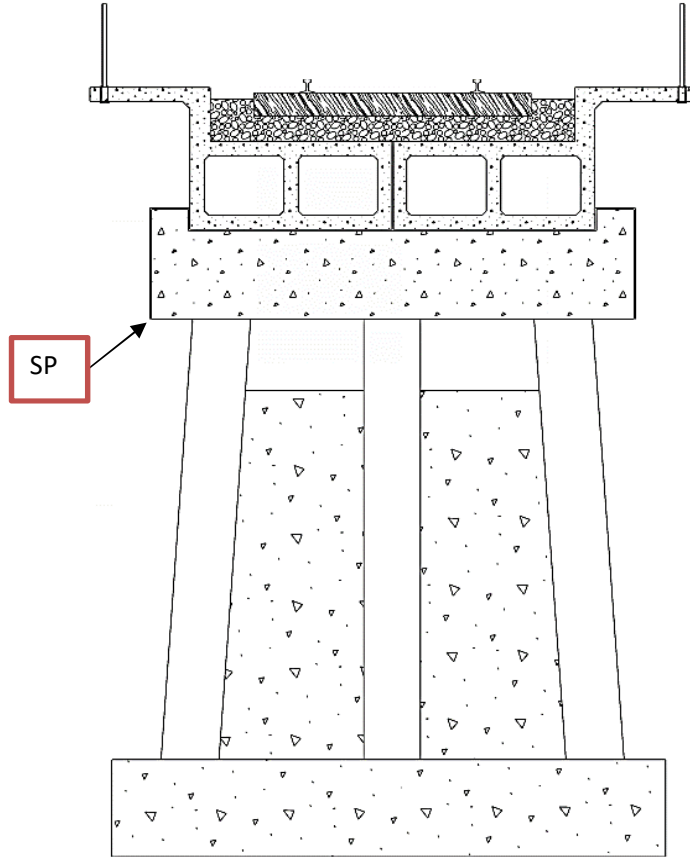
1. Handrail embed has failed. Posts now held with thru bolts on Span #4.
2. 1' scour under cap
3. Deb - Debris on pier upstream side

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE					
Span:	5	Alignment:	TANGENT	Vert. Clear:	14'
				Bridge No.	423.44
<b>DETAILS - PIER NUMBER: 5</b>				Span Length:	29'-10"
<p>A technical cross-section drawing of bridge pier number 5. The drawing shows two vertical concrete piers supporting a wide bent cap. Inside the bent cap are four rectangular box girders. A red square labeled "SP" has an arrow pointing to the bottom-left corner of the left pier's base.</p>					
Description: Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles					
Remarks:					
1. SP - Minor spall on bottom corner of pier cap - see photo					
Inspected By:		Joseph Holste, PE		Date Inspected:	12/13/2019



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 6	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 6			Span Length:	29'-10"



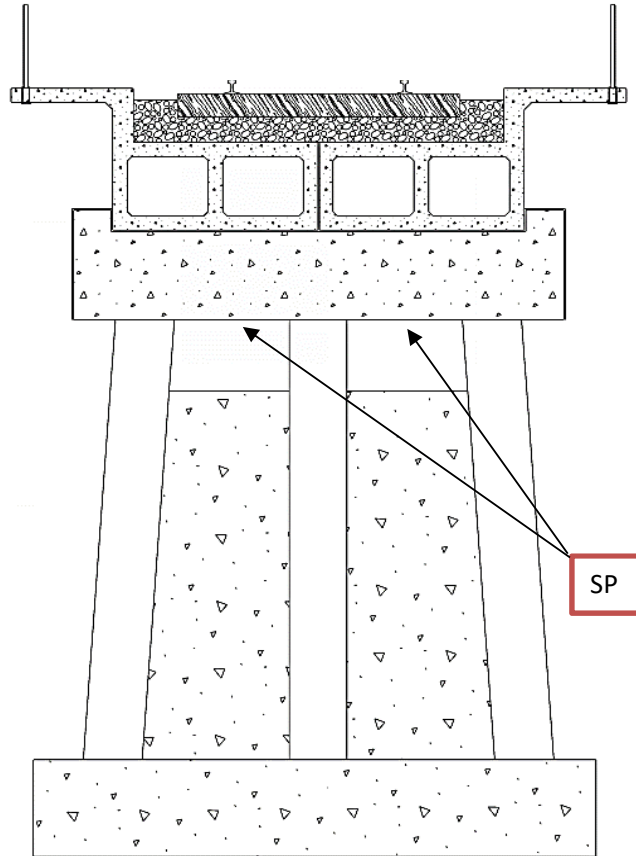
**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

1. SP - Minor cap spalls on north corners. See photo
2. Minor curb spall near pier

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 7	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 7			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

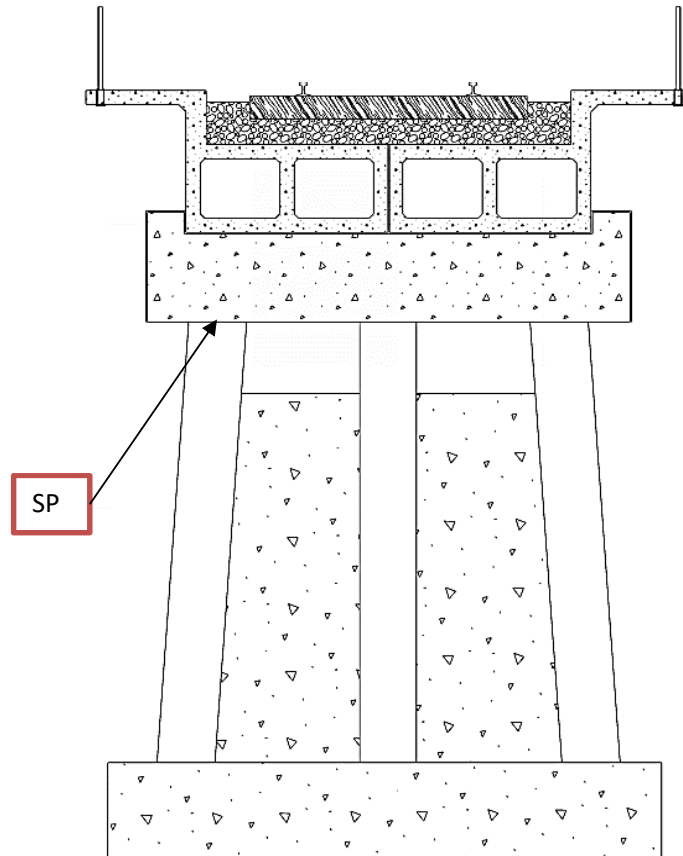
1. SP - Small spalls on the underside of the cap along the edge of the embed plate - see photo
2. Curb spall near pier - see photo
3. Trees under span on south side - see photo

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 8	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 8			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

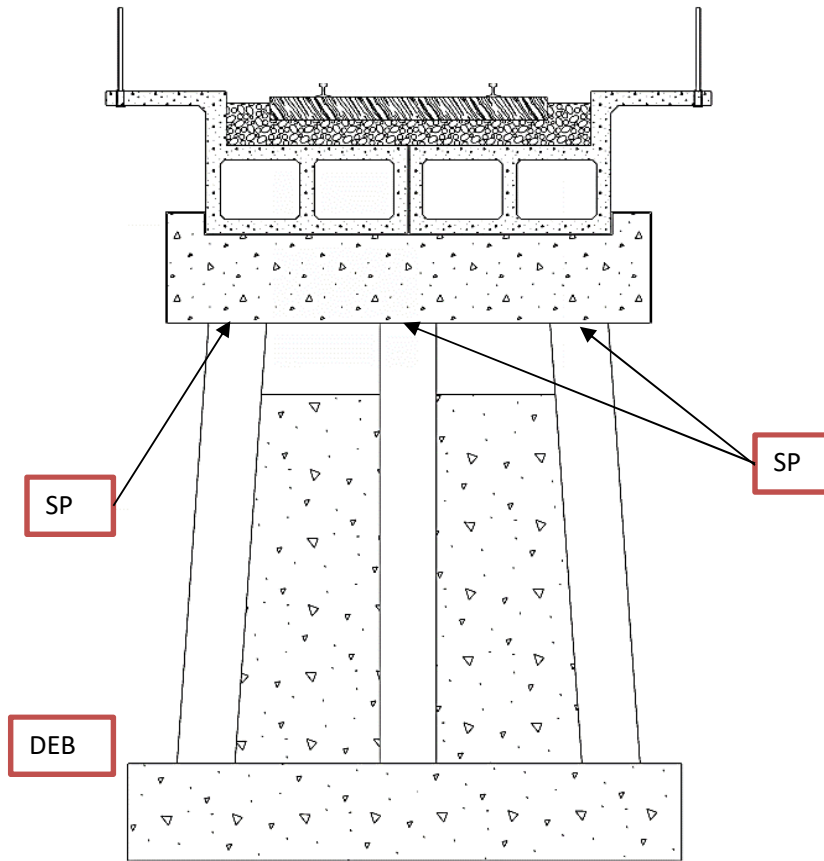
**Remarks:**

1. SP - Small spalls on the underside of the cap along the edge of the embed plate
2. Trees on south side under bridge and by pier

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 9	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 9			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

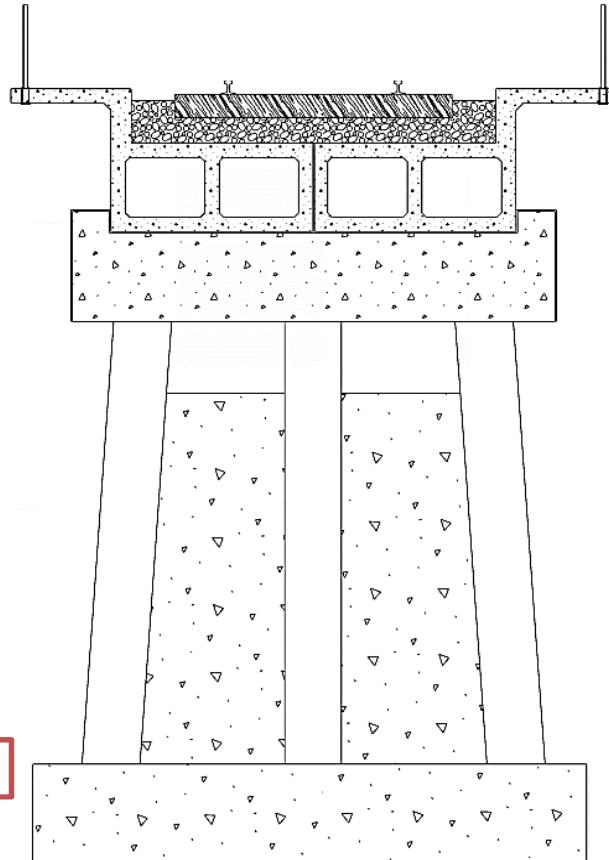
1. SP - Small spalls on the underside of the cap along the edge of the embed plate
2. Debris built up on northside pier

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 10	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 10			Span Length:	29'-10"



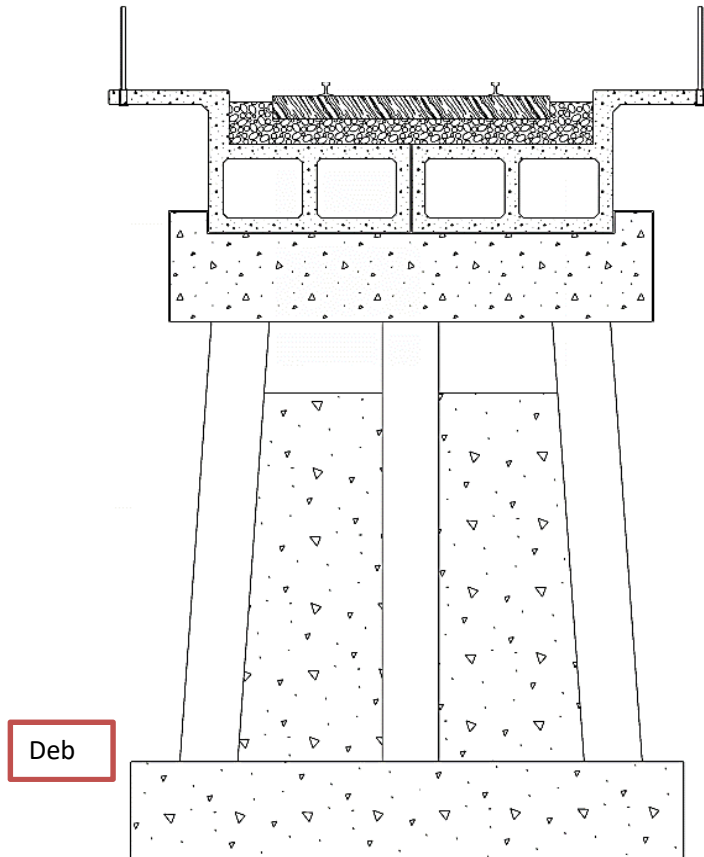
**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

1. Hole in ballast at pier
2. Debris built up on northside pier
3. Scour holes under span #10

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 11	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 11			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

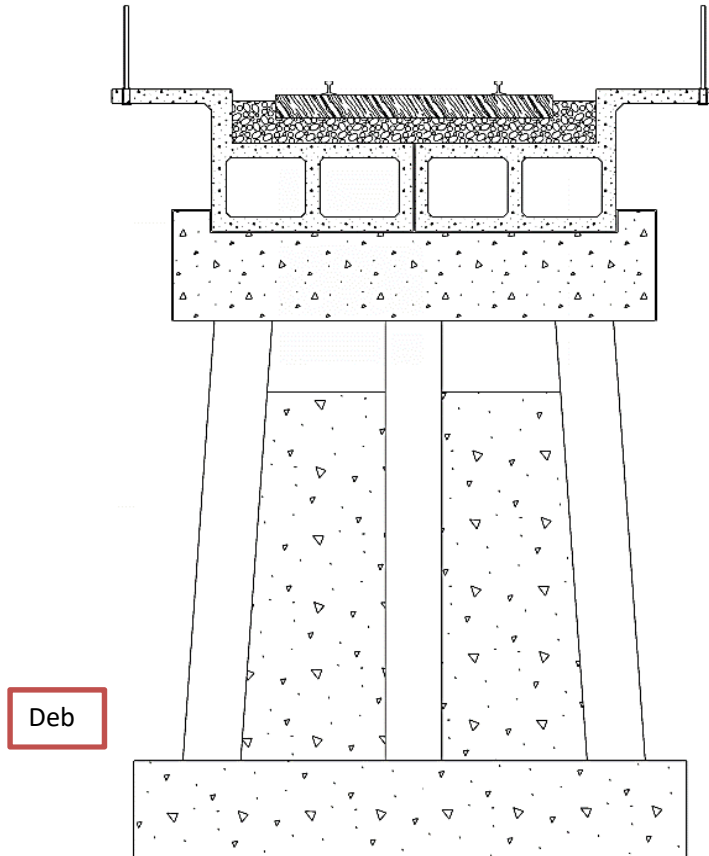
1. Minor spall midspan of girder 2 span #11 on southside - see photo
2. Deb - Debris built up on northside pier
3. 2' scour on northside of pier

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 12	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 12			Span Length:	29'-10"



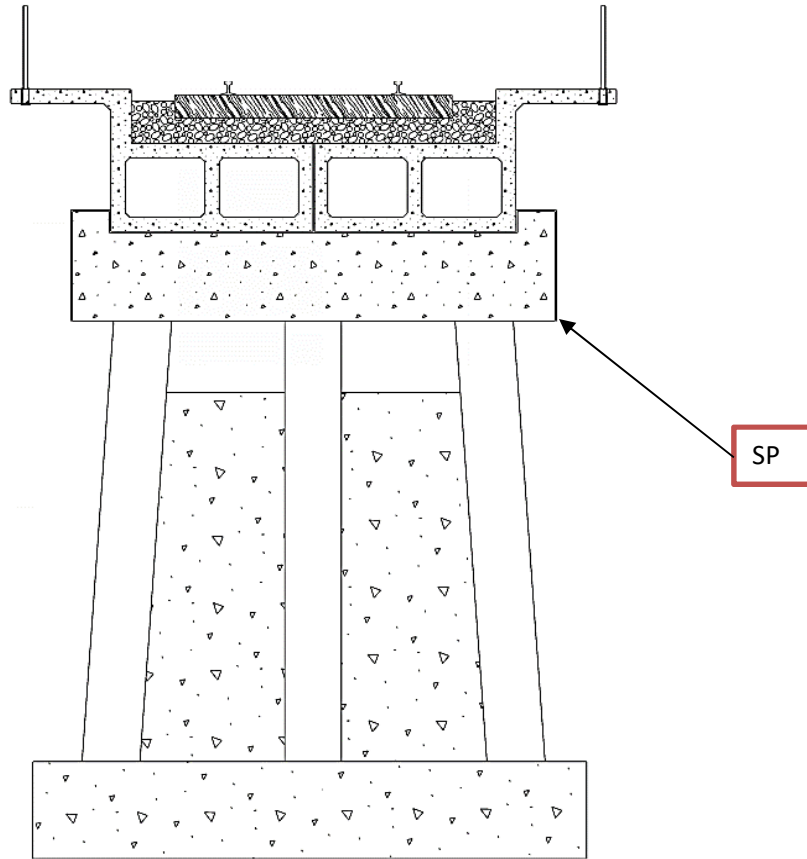
**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

1. 3' of scour below concrete collar. 3' deep hole 5' east
2. Deb - Debris upstream

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 13	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 13			Span Length:	29'-10"



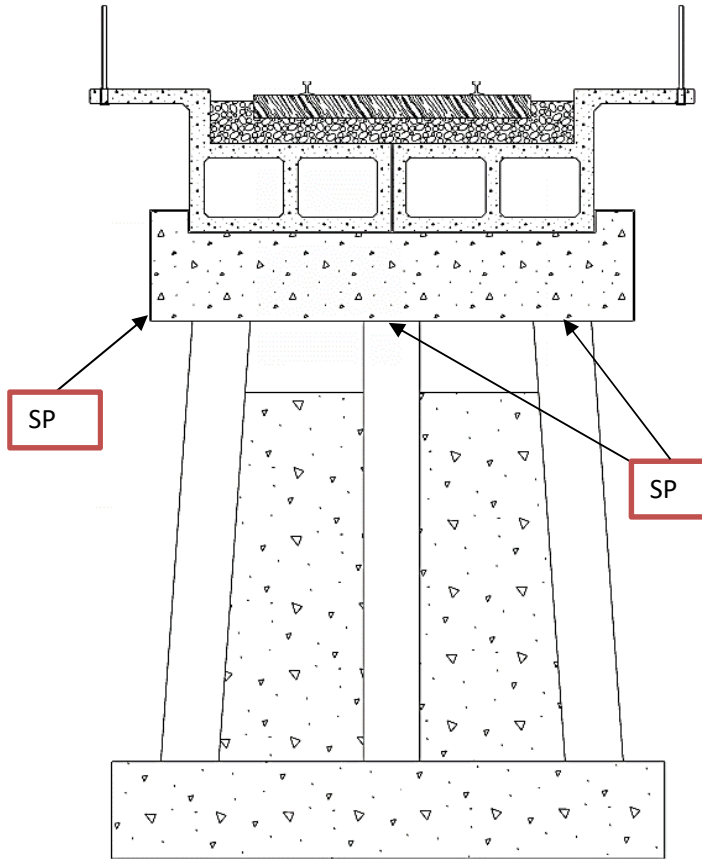
**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

1. Minor spall on SE corner of pier cap
2. Drift debris at upstream end
3. Span 13 has curb spall
4. Minor beam spall on girder 2, southside near pier 14 - see photo

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 14	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 14			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

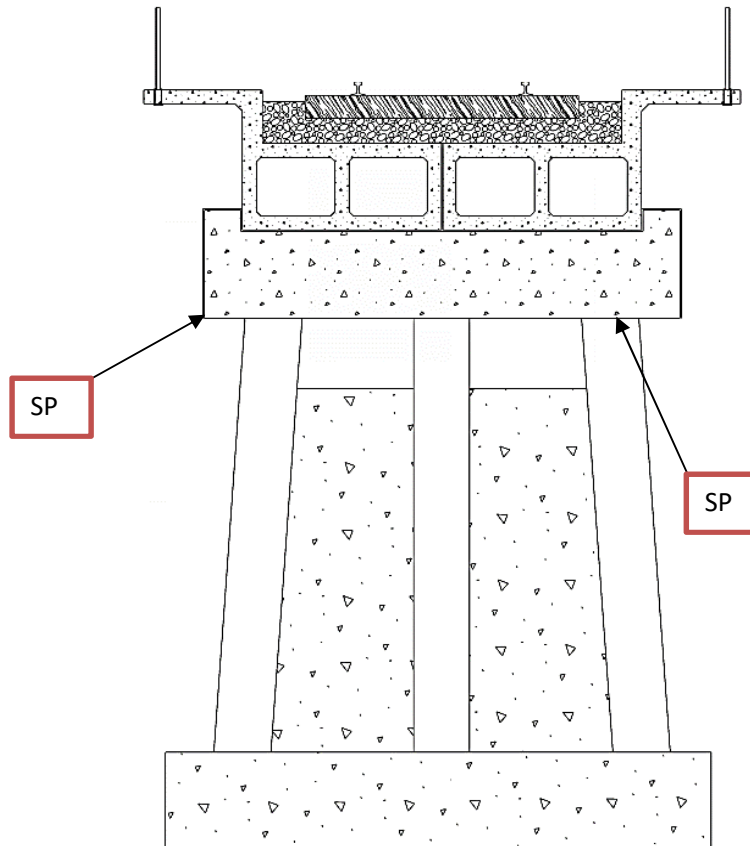
1. SP - Spall along underside of cap with exposed rebar - east side
2. SP - Spall along underside of cap with exposed rebar - west side
3. Missing bike path clearance sign on north side
4. SP - Spall NW bottom corner of cap
5. SP - Minor beam spall southside along span

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE				
Span: 15	Alignment: TANGENT	Vert. Clear: 14'	Bridge No.	423.44
DETAILS - PIER NUMBER: 15			Span Length:	29'-10"



**Description:** Looking East (2) 80"x30" Concrete box, concrete bent cap with steel piles

**Remarks:**

1. SP - Spall along underside of cap with exposed rebar - west side - see photo
2. SP - Spall on NE corner of pier cap

Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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BRIDGE INSPECTION REPORT --- CONCRETE STRUCTURE/CONCRETE ABUTMENT						
	Alignment:	TANGENT	Vert. Clear:	14'	Bridge No.	423.44
DETAILS - ABUT NUMBER: 16					Span Length:	
<b>Description:</b> Looking East (2) 80"x30" Concrete box, concrete abutment with steel piles						
<b>Remarks:</b>						
1. Ballast leaking on bearing seats - see photo						
Inspected By:		Joseph Holste, PE		Date Inspected:		12/13/2019

## Inspection Photos



**423.44 Looking East**



**423.44 Looking West**



## Inspection Photos



423.44 Looking Northeast



423.44 Looking Northwest

## Inspection Photos



**423.44 Channel condition looking upstream**



**423.44 Channel condition looking downstream**



## Inspection Photos



**423.44 Walkway Spall on Span 2 and multiple locations**



**423.44 Handrail embed failed. Post held with bolts, Span 3 and 4**



## Inspection Photos



**423.44 Scour - Abutment 1**



**423.44 Tree under Abutment**



## Inspection Photos



**423.44 Deep erosion from heavy water on North slope**



**423.44 Span 1 Impact Damage**

## Inspection Photos



**423.44 2' Scour under cap 2**



**423.44 Keeper spall on Pier 2**



## Inspection Photos



**423.44 Debris Upstream on Pier 4**



**423.44 Minor spall on bottom corner of pier cap, Pier 5**

## Inspection Photos



**423.44 Trees under Span 7 and 8 on south side**



**423.44 Minor spall midspan, Span 11**



## Inspection Photos



**423.44 Debris – Multiple locations**



**423.44 Minor spall - south side Span 13**



## Inspection Photos



**423.44 Spall along underside of cap with exposed rebar – west side Pier 14**



**423.44 Spall NE bottom corner of cap, Pier 14**

## Inspection Photos



**423.44 Spall with Exposed Rebar – Pier 15 west side**



**423.44 Ballast leaking on bearing seats, near Abutment 16**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 425.15  
 Location Santa Paula Branch Line  
Fillmore, CA  
 Stream X (Pole Creek) Overpass          Other           
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 13-Dec-19 Time 10:50 AM  
 Inspector Name Joseph Holste PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Ballast Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 5  
 Notes:           
TIES Type:          Tie Condition Rating: 7  
 Notes: Not inspected, covered with crossing panels  
BALLAST Depth:          Ballast Condition Rating: 7  
 Notes: Not inspected, covered with crossing panels  
DECK PLANKS Type:          Condition Rating:          Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel          Timber          Concrete 60'  
 Type: Truss          Deck Girder          Through           
 Trestle          Girder           
 Num Spans 2 Approx. Span Lengths 30'  
 Notes: Concrete double box girder - built 1969

## SUBSTRUCTURE

Visual Condition Rating 5  
 Bent: 5 Type Concrete Notes           
 Abutment: 5 Type Concrete Notes           
 Wingwalls: 5 Type Concrete Notes           
 Embank          Type Concrete Notes           
 Footing          Type          Notes           
 Inaccessible areas:         

## STREAM CHANNEL

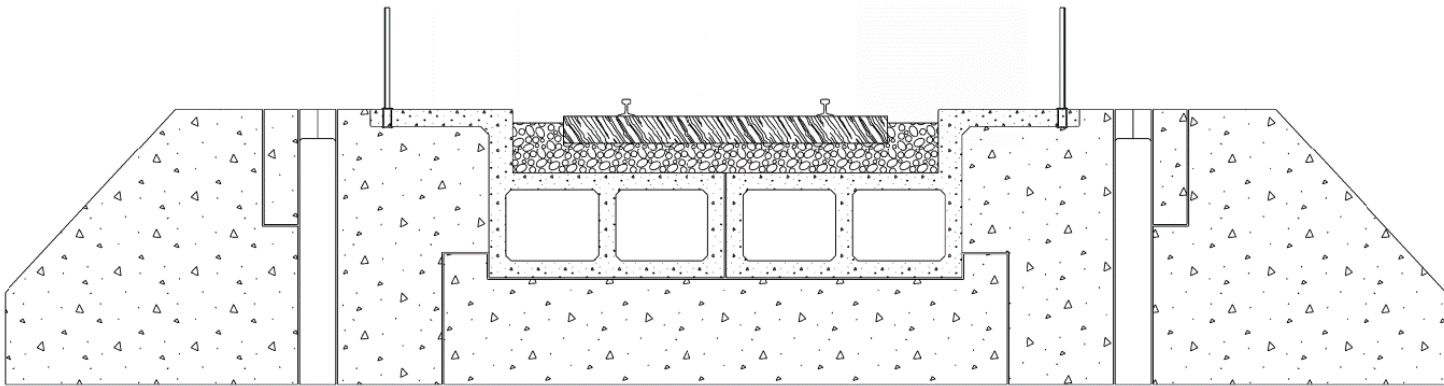
Visual Condition Rating 5  
 Stream Depth          Scour Evidence          Moving Water           
 Notes           
          
        

## OVERALL RATING

High Priority          Medium Priority          Low Priority X



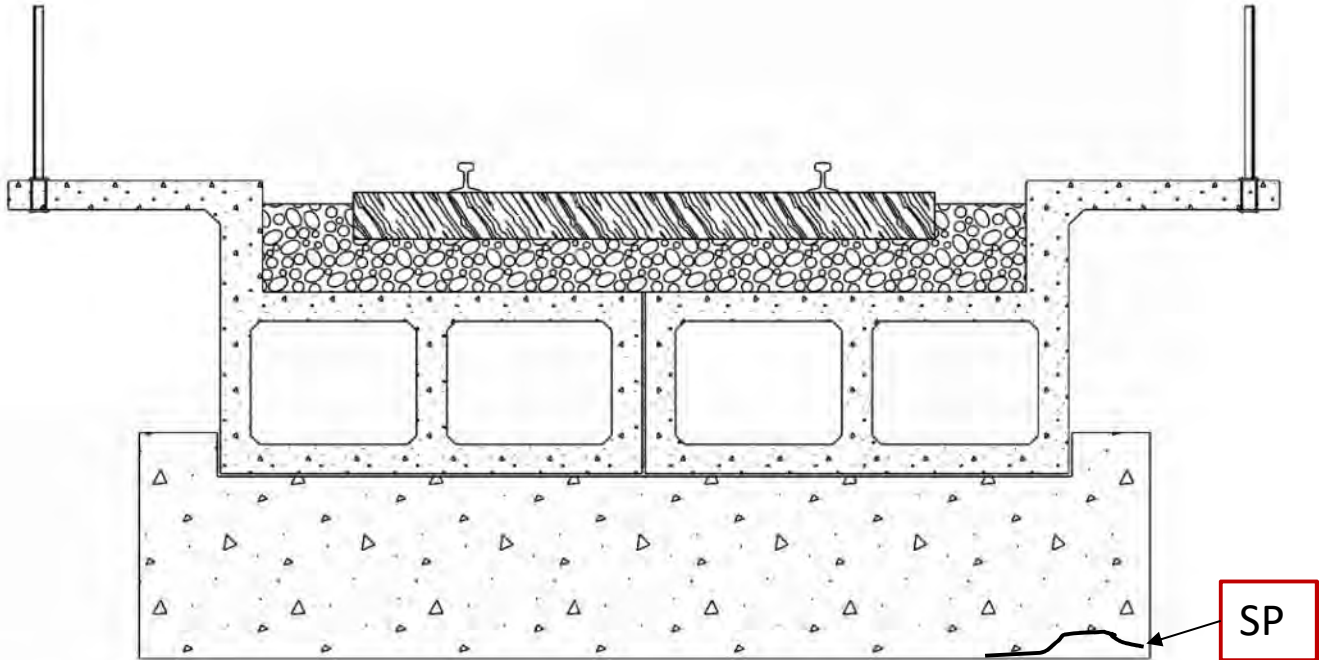
[illegible]

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	425.15
DETAILS - ABUTMENT NUMBER: 1		Span Length:		30'
				
Description: Looking East, 80"x30" Concrete box, concrete abutment with steel piles				
Remarks:				
1. Partially buried on north end				
Inspected By:	Joseph Holste PE		Date Inspected:	12/13/2019

MAINLINE/SUBDIVISION: VCTC

## BRIDGE INSPECTION REPORT --- CONCRETE PIER

Span: 2	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	425.15
DETAILS - PIER NUMBER: 2			Span Length:	30'



**Description:** Looking East, 80"x30" Concrete box, concrete pier

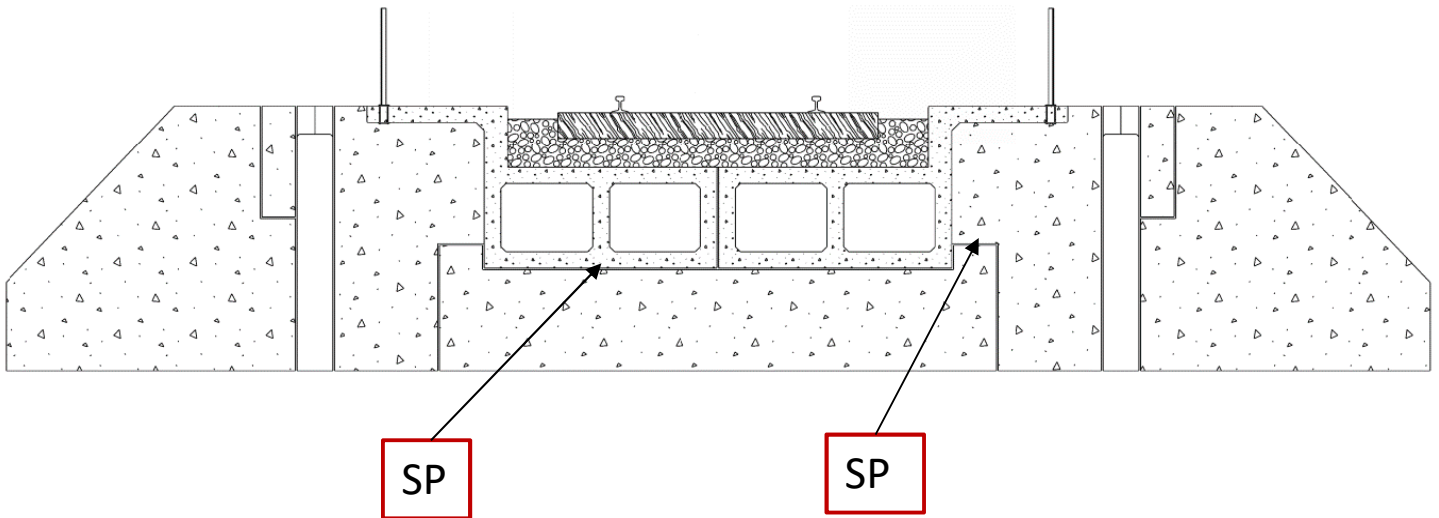
### Remarks:

1. Northeast walkway spall and rebar showing - see photo
2. Joint between Span #1 and Span #2, left side tight at top - see photo
3. SP: Spall on southwest corner pier 2 - see photo
4. North side, Span 2, Girder 1, east end girder is showing spalling and deterioration, exposed rebar - see photo
5. Spall at midspan of north girder on north side - see photo
6. Vegetation growing in drain holes, tree in superstructure - see photo



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span:	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	425.15
DETAILS - ABUTMENT NUMBER: 3		Span Length:		



**Description:** Looking East, Concrete abutment with steel piles

**Remarks:**

1. SP - Abutment cap spall
2. SP - Southeast keeper spall at Abutment 3

## Inspection Photos



**425.15 Looking East**



**425.15 Looking West**



## Inspection Photos



**425.15 Looking North**



**425.15 Looking South**



## Inspection Photos



**425.15 Cable broken at southwest corner**



**425.15 Vegetation growing in drain holes**

## Inspection Photos



**425.15 Spall - Southwest pier 2**



**425.15 No gap between girders - Pier 2**



## Inspection Photos



**425.15 Spall with exposed rebar - Span 2 north side**



**425.15 Spall at midspan - Span 2 north side**



## Inspection Photos



**425.15 Crack and spall in girder near Abutment 3 north side**



**425.15 Abutment 3 Cap Spall**



## Annual

High Priority	Medium Priority	X	Low Priority
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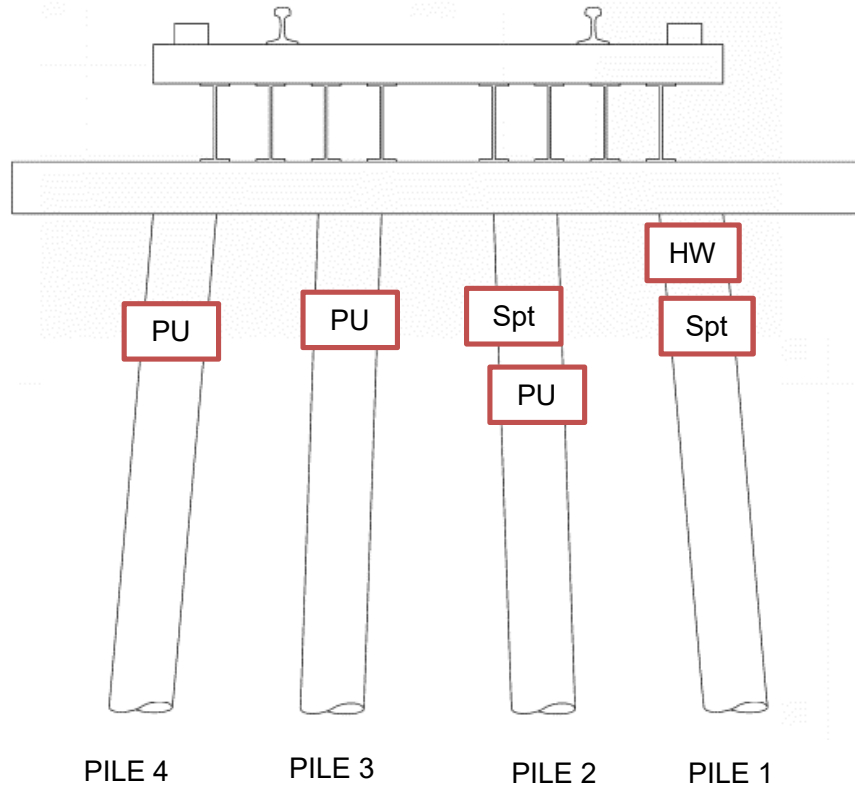
MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER STRUCTURE							
Spans:	1	Alignment:	Curve	Vert. Clear:	6' +/-	Bridge No.	427.64
No. of Tks:	1	Deck Type:	Open Deck	Br. Over:	Drainage	Overall Length:	15'
<b>ENVIRONMENT</b>		<b>STRINGERS</b>					
E01 Scour	5	S01 Stringers		3	B08 Sash Brace	N/A	
E02 Channel	3	S02 Line Bolts		5	B09 Long Brace	N/A	
E03 Approach	3	S03 Bearing @ Cap		5	B10 Cap Long Brace	N/A	
					B11 Shims	N/A	
<b>DECK</b>		<b>BENTS</b>		<b>MISC. OTHER</b>			
D01 Ties (OD only)	3	B01 West Abutment		3	M01		
D02 Ties Spacers	N/A	B02 East Abutment		3	M02		
D03 Rail	3	B03 Caps		5	M03		
D04 Ballast Floor	N/A	B04 Piles		3	M04		
D05 Ballast Retainer	N/A	B05 Framed Bents		N/A	Overall Rating:	3	
D06 Footwalk	N/A	B06 Posts		N/A			
D07 Handrail	N/A	B07 Cross Braces		N/A			
<b>COMMENTS</b>							
Reference	Remark						
Rail	Missing J-bolt on right side - covered in debris and silt, could not verify						
Headwall	Backwalls are showing signs of deterioration						
Channel	Completely silted in, not visible						
<b>MAINTENANCE RECOMMENDATIONS</b>							
Priority	Description						
A	Clear vegetation on north and south side of bridge						
E02, A	Clear channel						
E03, B	Raise approaches both ends						
D01, B	Replace ties						
D03	Replace rail as tonnage dictates						
B01, B02, B	Repair backwalls						
S01, A	Clean debris from stringers						
<b>CONDITION RATING</b>				<b>PRIORITY</b>			
1. Failed ( may require bridge out of service )				A. Immediately			
2. Deficient: OK for operations, but requires Flagman/Inspector for all trains until repaired.				B. Within 1 year			
				C. Within 3 years			
3. Satisfactory but with exceptions: Slow order may be required.				D. Within 5 years			
4. Worker Safety: items such as ( handrail, footwalk, etc.)				E. Within 10 years			
5. Good with minor exceptions				M. Monitor, Condition may change & raise priority			
6. New Bridge							
7. Not inspected: Reason stated							
Inspected By:		Joseph Holste, PE		Date Inspected:		12/13/2019	



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT				
Span: 1	Alignment: CURVE	Vert. Clear: Varies	Bridge No.	427.64
DETAILS - ABUT NUMBER: 1			Span Length:	13'-6"

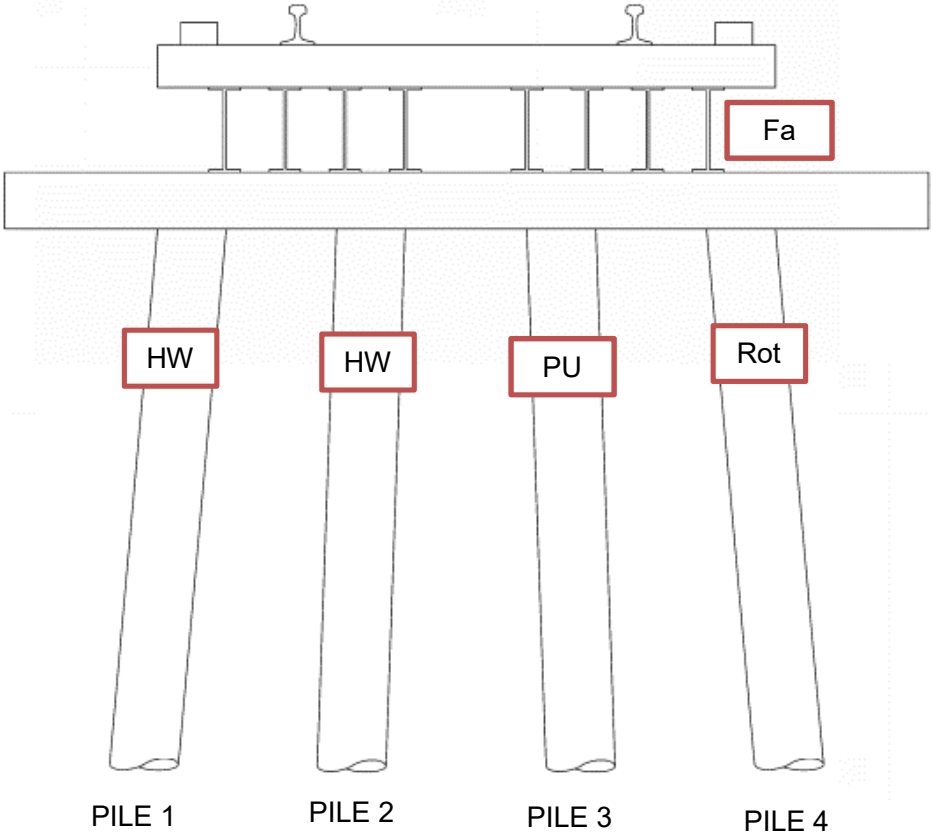


**Description: Looking West - (8) Steel Stringers, Abutment #1 is timber**

**Remarks:**

1. Could not inspect, completely silted in
2. Debris between and covering stringers - see photo
3. Backwall rotting. Top timber of backwall failing - see photo
4. HW: Pile #1 is hollow at top (2018 Notes)
5. PU: Piles #2, #3, and #4 are punky (2018 Notes)
6. Spt: Pile #1 and #2 split (2018 Notes)

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- TIMBER ABUTMENT			
	Alignment: <span style="color: blue;">CURVE</span>	Vert. Clear: <span style="color: blue;">Varies</span>	Bridge No. <span style="float: right;">427.64</span>
<b>DETAILS - ABUT NUMBER: 2</b>	Span Length:		
 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>PILE 1</span> <span>PILE 2</span> <span>PILE 3</span> <span>PILE 4</span> </div>			
<b>Description: Looking East - (8) Steel Stringers, Abutment #2 is timber</b>			
<b>Remarks:</b>			
1. Could not inspect, completely silted in			
2. Fa - Backwall is failing - see photo			
3. Hole in ballast behind abutment - see photo			
4. ROT: Pile #4 is rotten (2018 Notes)			
5. PU: Pile #3 is punky (2018 Notes)			
6. Pile #1 soft (2018 Notes)			
7. Pile #1 and #2 are hollow (2018 Notes)			
Inspected By:	<span style="color: blue;">Joseph Holste, PE</span>		Date Inspected: <span style="float: right;">12/13/2019</span>

## Inspection Photos



**427.64 Looking East**



**427.64 Looking West**



## Inspection Photos



**427.64 Looking North**



**427.64 Looking South**



## Inspection Photos



**427.64 Downstream channel condition**



**427.64 Upstream channel condition**



## Inspection Photos



**427.64 Hole in ballast behind Abutment 2**



**427.64 Backwall rotting – top timber of backwall failing, Abutment 1**



## Inspection Photos



**427.64 Debris covering stringers**



**427.64 Debris between stringers**

## Inspection Photos



**427.64 Backwall failing – Abutment 2**

# BRIDGE INSPECTION REPORT

INSPECTION TYPE: Annual

## STRUCTURE INFORMATION

Milepost 429.79  
 Location Santa Paula Branch Line  
Piru, CA  
 Stream X - Hopper Creek Overpass          Other X  
 Train Operating Speed: Freight: 10 mph Passenger: 15 mph

## INSPECTION INFORMATION

Date 13-Dec-19 Time 8:00 AM  
 Inspector Name Joseph Holste, PE  
 Telephone Number 303-501-1215  
 Company Wilson & Company

**DECK** Type: Open Number of Tks 1 Visual Condition Rating 5  
RAIL Weight: 80# Type: Jointed Visual Condition Rating: 5  
 Notes: Low approaches east and west  
TIES Type: Timber Tie Condition Rating: 5  
 Notes:           
BALLAST Depth:          Ballast Condition Rating:           
 Notes:           
DECK PLANKS Type:          Condition Rating:          Notes:           
OTHER Type:          Condition Rating:         

## SUPERSTRUCTURE

Visual Condition Rating 5  
 Type: Culvert: Number barrels          Round or Rect          Size           
 Approx Lngth.          Concrete          Steel           
 Bridge: Steel 184' Timber          Concrete           
 Type: Truss          Deck Girder          Through           
 Trestle          Girder           
 Num Spans 4 Approx. Span Lengths 70', 82', 15', 17'  
 Notes: Open deck timber trestle east approach and 2 TPG's-Bt. 1938  
(Inspection on Thru Plate Girder only)

## SUBSTRUCTURE

Visual Condition Rating 3  
 Bent:          Type          Notes           
 Abutment:          Type          Notes           
 Wingwalls:          Type          Notes           
 Embank          Type          Notes           
 Footing          Type          Notes           
 Inaccessible areas: Inspection of TPG's only; east timber trestle silted in

## STREAM CHANNEL

Visual Condition Rating 5  
 Stream Depth 2' Scour Evidence 0 Moving Water yes  
 Notes           
          
        

## OVERALL RATING

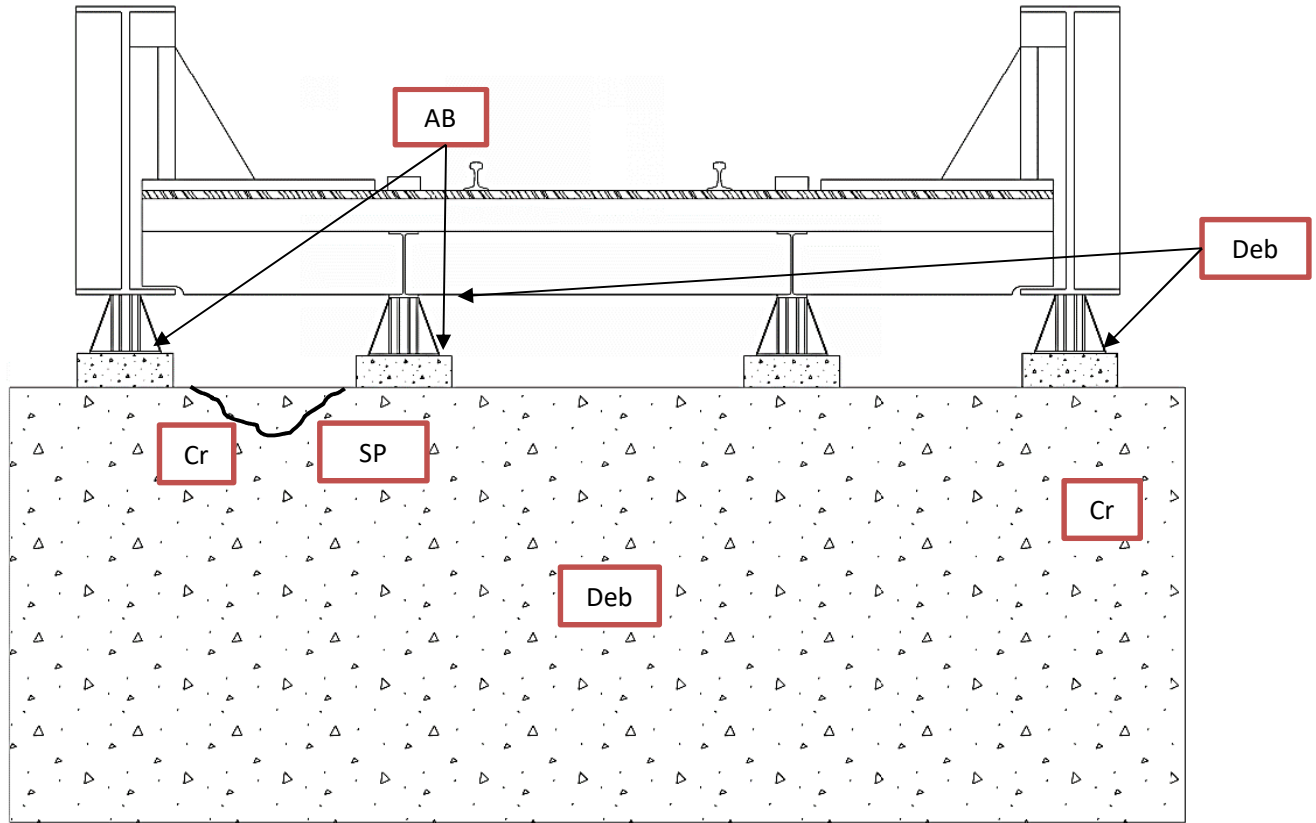
High Priority          Medium Priority          Low Priority X



[illegible]

MAINLINE/SUBDIVISION: VCTC

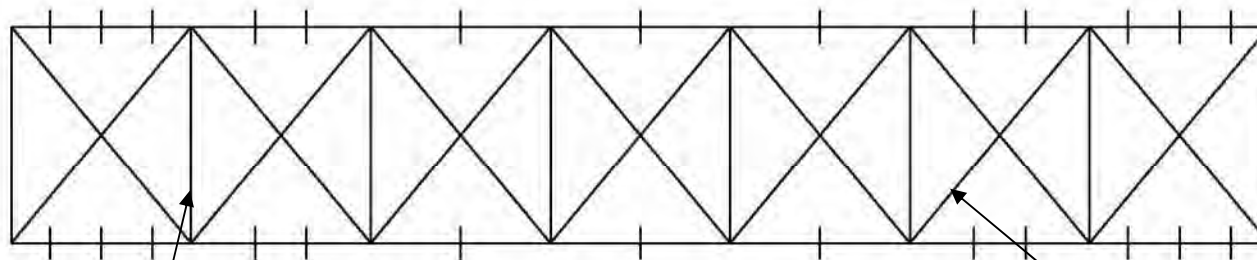
BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE ABUTMENT				
Span: 1	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	429.79b
DETAILS - ABUTMENT NUMBER: 1			Span Length:	70'



**Description:** Thru plate girders, Abutment #1 is concrete

**Remarks:**

1. Cr - Abutment has minor cracking
2. SP - Spall on abutment - see photo
3. Deb - Damage due to high water debris - see photo
4. AB - Loose anchor bolt, stringer 1 and 2 - see photo
5. Sandy silt buildup on bottom flanges of floor beams



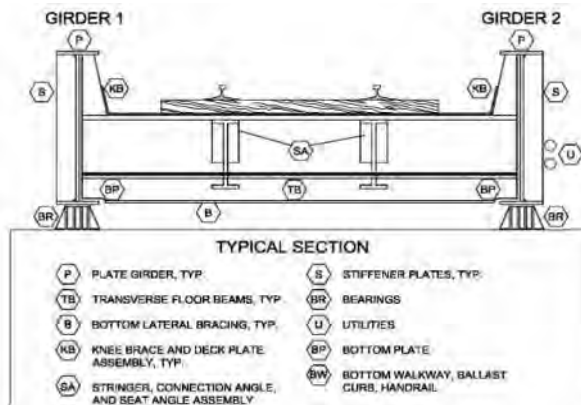
LEFT SIDE

RIGHT SIDE

**BOTTOM LATERAL BRACING**

FB1  
Impact

Cross  
Bracing  
Impact

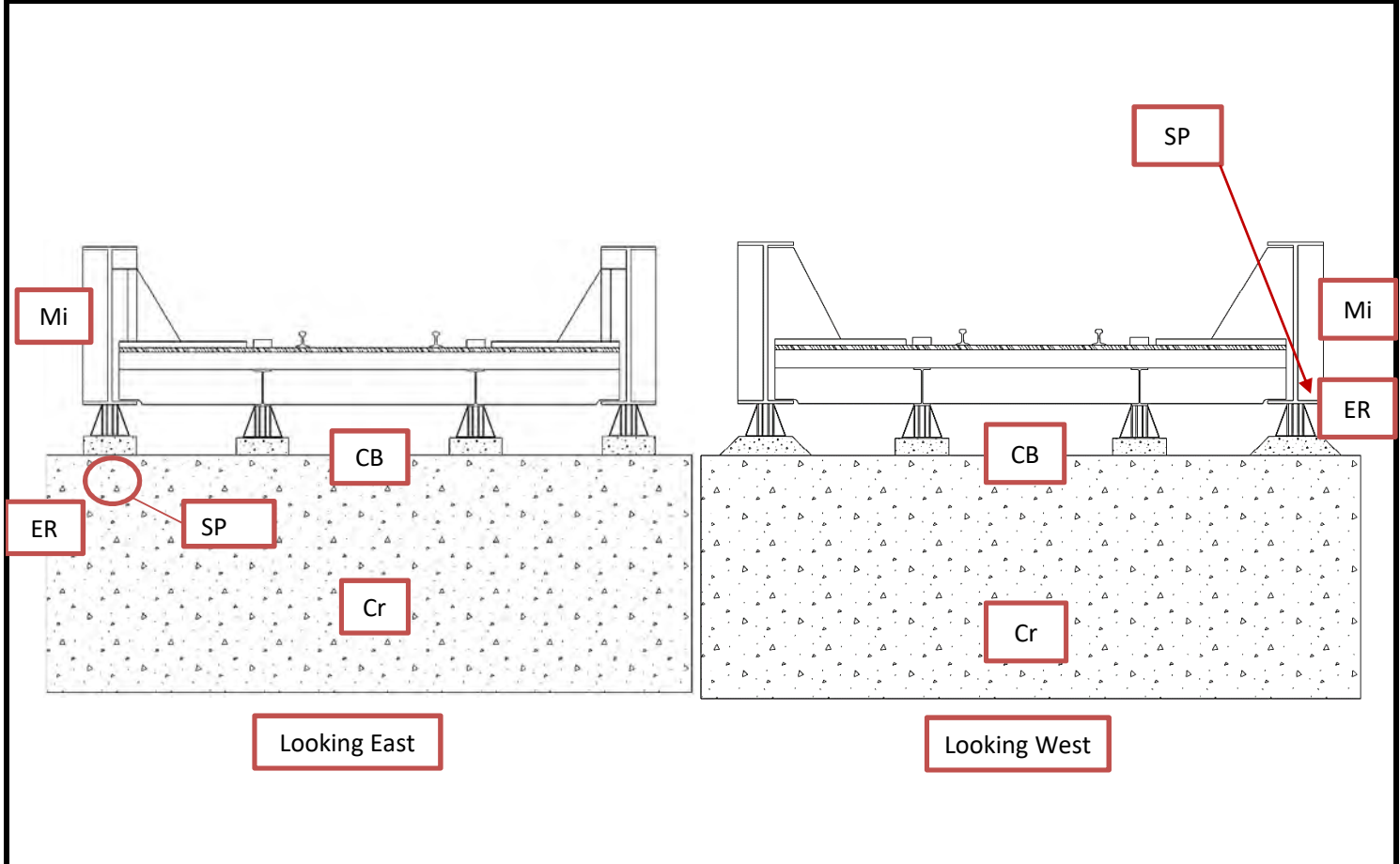


DIVISION	Santa Paula	SPAN LENGTH	70'-0"	NUMBER OF TRACKS	1
CROSSING	Hopper Creek	TRACK ALIGNMENT	Tangent	SPAN No.	1
INSPECTION FINDINGS					
	ALL BEARING AREAS REQUIRE CLEANNING				
	North G1 stiffeners have minor impact				
	Impact damage to bottom flange floor beam 1 - see photo				
	Impact damage to bay 5 cross bracing				



MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- STEEL STRUCTURE/CONCRETE PIER				
Span: 2	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	429.79b
DETAILS - PIER NUMBER: 2			Span Length:	70', 82'

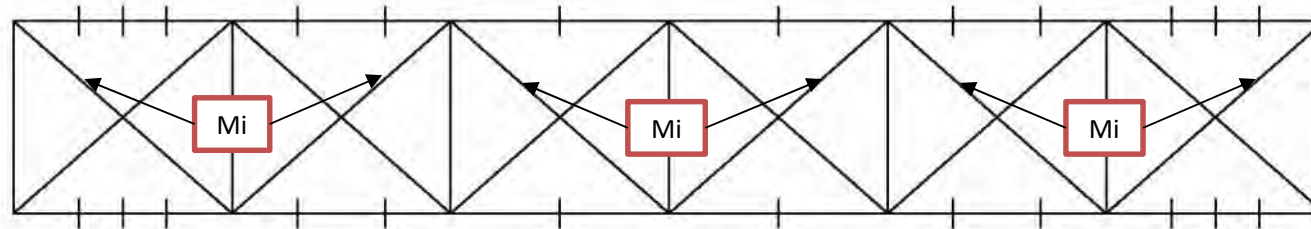


**Description:** Thru plate girders, Pier #2 is concrete

**Remarks:**

1. CB - Between thru plate girder, seats are covered with silt from high water at stringers and floorbeam. Needs cleaning around bearings and seat
2. CB - Some silting outside seat bearing pad
3. Mi: Minor impact damage to intermediate stiffeners on north side - see photo
4. Cr: Pier #2 - many horizontal and vertical cracks upstream side due to impact from rocks in stream (see photo)
5. ER: Pier has exposed rebar on top north end (see photo)
6. SP - Span #2 bearing seat spall (see photo)
7. Span #2 floor beam #4 impact damage top flange
8. Sheared rivet GI mid span - see photo
9. Stringers #1 and #2 has south loose anchor bolt. Pedestal is cracked
10. Multiple members have miss punched holes in flanges. See photo

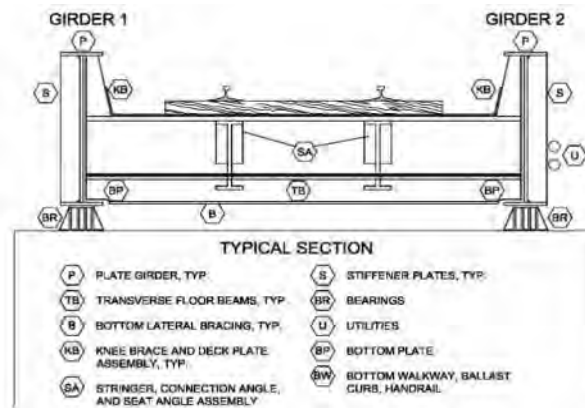
Inspected By:	Joseph Holste, PE	Date Inspected:	12/13/2019
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LEFT SIDE

RIGHT SIDE

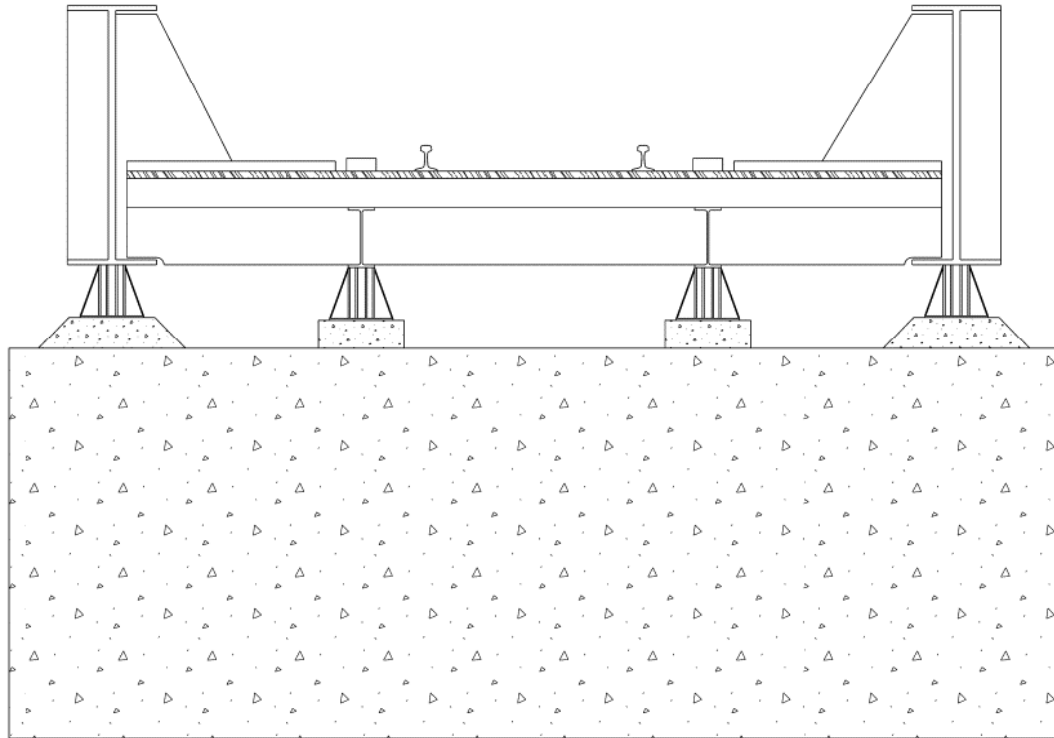
### BOTTOM LATERAL BRACING



DIVISION	Santa Paula	SPAN LENGTH	82'-0"	NUMBER OF TRACKS	1
CROSSING	Hopper Creek	TRACK ALIGNMENT	Tangent	SPAN No.	2
INSPECTION FINDINGS					
Mi	Lower cross bracing has minor impact throughout - see photo				
	Impact damage to bay 1 crossbracing				

MAINLINE/SUBDIVISION: VCTC

BRIDGE INSPECTION REPORT --- CONCRETE ABUTMENT				
Span:	Alignment: TANGENT	Vert. Clear: Varies	Bridge No.	429.79b
DETAILS - ABUTMENT NUMBER: 3			Span Length:	82'



**Description: Abutment #3 is concrete**

**Remarks:**

1. Showing signs of high water into superstructure
2. Covered in silt and unable to inspect (see photo)



[illegible]

## Inspection Photos



**429.79 Looking East**



**429.79 Looking West**

## Inspection Photos



429.79 Looking North



429.79 Looking South



## Inspection Photos



**429.79 Channel Condition – Looking Upstream**



**429.79 Channel Condition – Looking Downstream**



## Inspection Photos



**429.79 Minor impact damage on knee braces**



**429.79 South walkway damaged near Pier 2**



## Inspection Photos



**429.79 Timber approach spans fully silted in**



**429.79 Spall - Abutment 1**



## Inspection Photos



**429.79 Loose anchor bolt – Stringer 1 & 2, Abutment 1**



**429.79 Impact damage to bottom flange floor beam 1 – Span 1**

## Inspection Photos



429.79 Multiple stiffeners Impact damage - Span 1 north side



429.79 Typical cracking - Pier 2



## Inspection Photos



**429.79 Exposed rebar - Pier 2 north side**



**429.79 Minor impact damage - Pier 2**



## Inspection Photos



**429.79 Spalling under bearing - Pier 2**



**429.79 Spall under bearing – Pier 2**

## Inspection Photos



**429.79 Seats are covered with silt, Pier 2 Bearing**



**429.79 Sheared rivet GI mid span, Span 2 at floor beam 3**



## Inspection Photos



**429.79 Miss punched holes in flanges. Multiple members, Span 2**



**429.79 Lower cross bracing has minor impact throughout**



## Inspection Photos



**429.79 Abutment 3 – buried**