**STRUCTURE SURVEY TEMPLATE**

**ROAD NAME**: HWY 126 + Frontage → Santa Maria Sta 46 Highway 126

**COUNTY**: [Redacted]

**PHOTO ID #**: [Redacted]

**STREAM NAME**: Fagan Creek

**STRUCTURE #**: 1

**XY COORDINATE**: [Redacted]

**TYPE**: Railroad Bridge

**LENGTH**: [Redacted]

**SIZE (W X H) & SHAPE**: [Redacted]

**MATERIAL**: [Redacted]

**Road to Bed**: Top of Road EL

**INLET/OUTLET TYPE**: [Redacted]

**SPECIAL NOTE** (Conditions, Blockage, etc): Rectangular Concrete channel down almost to the SCR

**HIGH WATER MARK** (Description, Witness, and Date): Slight drop on end of RC.

**CULVERT TYPE**

<table>
<thead>
<tr>
<th>Bridge</th>
<th>Span Bridge</th>
<th>Pier Shape</th>
<th>Culvert</th>
<th>Dam</th>
<th>Spillway</th>
<th>Riser Barrel</th>
<th>Outlet</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Barrels</td>
<td>2</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>Rectangle (Span X Rise)</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
</tr>
<tr>
<td>3</td>
<td>Elliptical</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
</tr>
<tr>
<td>4</td>
<td>Con/Span</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
</tr>
<tr>
<td>5</td>
<td>Elevated Arch</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
</tr>
<tr>
<td>6</td>
<td>Pipe Arch</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
</tr>
<tr>
<td>7</td>
<td>Other</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
<td>10' x 10'</td>
<td>1</td>
<td>Circular</td>
</tr>
</tbody>
</table>

**MATERIAL**

- RCP (Reinforced Concrete Pipe)
- CMP (Corrugated Metal Pipe)
- Bituminous Coated
- Steel
- Timber
- Ductile
- Clay
- Masonry Rock
- Masonry Rock

**Road to Bed**: From Topo Map (FT.NGVD) or (FT.NAVD)

**INLET/OUTLET TYPE**

- Headwall
- Wingwalls Type 90°, 45°, 90°
- Projecting
- Flush with Slope
- MES (Mitered End Section)
- FES (Fiared End Section)

**Pier Shape**

- 1) Circular pier
- 2) Twin-Cylinder pier
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

**Inlet/Outlet Type**

- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill

**Types (Shape) of Culvert**

- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other
### CHANNEL INFORMATION
<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### BRIDGE INFORMATION
<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDRAULIC WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Diagram**: [Top of Road Diagram]

---

**Photos**

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Channel DBs &amp; crossing wall height increases twice max = 7'</td>
</tr>
<tr>
<td></td>
<td>Rect channel bw = 30'</td>
</tr>
<tr>
<td></td>
<td>Channel ds of concrete is clear of veg on bottom &amp; R side Some brush on L bank</td>
</tr>
</tbody>
</table>
**Additional Channel Information**

D/3 R = residential

D/3 C = business/RV

0% 0% = residential

w/v dk -- few trees

local to crossing -- nothing

**Vegetative Cover**

Clean RC channel

**Bed Material**

good shape

**General Channel Condition**

vertical --- way dk = ~ 2:1 earth

veg on L bank

**Banks**

Flat

D/3 L bank = Big Berkeley

maint road - R obs.

fenced both sides

**Overbanks**

0% - long pier nose

3% channel

D/3

10 10

10 10

10

7' (min)

30'

7' (max)

5' (min)

D/3

10

10

18'

D/3

20'

7'

note: 0% C bank is taller than R bank.

R = 65' H = 7' 9" (?)
**STRUCTURE SURVEY TEMPLATE**

**ROAD NAME**: [Handwritten: Buddhist Santa Anna / STECKEL]

**STREAM NAME**: Byer Creek

**STRUCTURE #:** 2

<table>
<thead>
<tr>
<th>TYPE</th>
<th>LENGTH</th>
<th>SIZE (W X H) &amp; SHAPE</th>
<th>MATERIAL</th>
<th>Road to Bed</th>
<th>INLET/OUTLET TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Railroad Bridge</td>
<td></td>
<td></td>
<td></td>
<td>Top of Road EL</td>
<td></td>
</tr>
</tbody>
</table>

**SPECIAL NOTE**
(Conditions, Blockage, etc)

**HIGH WATER MARK**
(Description, Witness, and Date)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CULVERT TYPE</th>
<th>MATERIAL</th>
<th>Road to Bed</th>
<th>INLET/OUTLET TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge</td>
<td>Number of Barrels</td>
<td>RCP (Reinforced Concrete Pipe)</td>
<td>Height from Top of Road to Invert</td>
<td>Headwall Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td>8 span Bridge</td>
<td>20' clear span</td>
<td>CMP (Corrugated Metal Pipe)</td>
<td>Projecting Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Pier Shape</td>
<td>6' high</td>
<td>Bitmus Coated</td>
<td>Flush with Slope Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Culvert</td>
<td>1) Circular</td>
<td>Steel</td>
<td>From Topo Map Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Dam</td>
<td>2) Rectangle (Span X Rise)</td>
<td>Timber</td>
<td>(FT.NGVD) Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Spillway</td>
<td>3) Elliptical</td>
<td>Ductile</td>
<td>(FT.NAVD) Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Risers Barrel</td>
<td>4) Con/Span</td>
<td>Clay</td>
<td>MES (Mitered End Section) Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td>5) Elevated Arch</td>
<td>Masonry Rock</td>
<td>FES (Flared End Section) Headwall Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>6) Pipe Arch</td>
<td>7) Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pier Shape**
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

**Types (Shape) of Culvert**
1) Circular
2) Rectangle
3) Elliptical
4) Con/Span
5) Elevated Arch
6) Pipe Arch
7) Other

**Inlet/Outlet Type**
- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
Land Use

Residential

Vegetative Cover

Clear, Rein. Canc.

Bed Material

Clear

General Channel Condition

Vertical

Banks

Flat

Overbanks
## STRUCTURE SURVEY TEMPLATE

<table>
<thead>
<tr>
<th>ROAD NAME</th>
<th>COUNTY</th>
<th>DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvard</td>
<td></td>
<td>3/5/08</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STREAM NAME</th>
<th>PHOTO ID #</th>
<th>STRUCTURE #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fagan Chin</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TYPE</th>
<th>LENGTH</th>
<th>SIZE (W X H) &amp; SHAPE</th>
<th>MATERIAL</th>
<th>Road to Bed</th>
<th>INLET/OUTLET TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Railroad Bridge</td>
<td></td>
<td></td>
<td></td>
<td>Top of Road</td>
<td>EL</td>
</tr>
</tbody>
</table>

### SPECIAL NOTE
(Conditions, Blockage, etc)

### HIGH WATER MARK
(Description, Witness, and Date)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CULVERT TYPE</th>
<th>MATERIAL</th>
<th>Road to Bed</th>
<th>INLET/OUTLET TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge Span Bridge</td>
<td>数量 (Barrels)</td>
<td>RCP (Reinforced Concrete Pipe)</td>
<td>Height from Top of Road to Invert</td>
<td>Headwall Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td>Pier Shape</td>
<td>1) Circular</td>
<td>CMP (Corrugated Metal Pipe)</td>
<td>Top of Road</td>
<td>Projecting</td>
</tr>
<tr>
<td>Culvert</td>
<td>2) Rectangle (Span X Rise)</td>
<td>Bituminous Coated Steel</td>
<td>From Topo Map (FT.NGVD) or (FT.NAVD)</td>
<td>Flush with Slope</td>
</tr>
<tr>
<td>Dam</td>
<td>3) Elliptical</td>
<td>Steel</td>
<td>Headwall WingwallsType 0°, 90°</td>
<td>MES (Mitered End Section)</td>
</tr>
<tr>
<td>Spillway</td>
<td>4) Con/Span</td>
<td>Timber</td>
<td>Headwall Wingwalls Type 45°</td>
<td>FES (Flared End Section)</td>
</tr>
<tr>
<td>Riser Barrel</td>
<td>5) Elevated Arch</td>
<td>Ductile</td>
<td>Headwall Wingwalls Type 90°</td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td>6) Pipe Arch</td>
<td>Clay</td>
<td>Headwall Wingwalls Type 90°</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7) Other</td>
<td>Masonry Rock</td>
<td>Headwall Wingwalls Type 90°</td>
<td></td>
</tr>
</tbody>
</table>

### Pier Shape

1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

### Types (Shape) of Culvert

1) Circular
2) Rectangle
3) Elliptical
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6) Pipe Arch
7) Other

### Inlet/Outlet Type

- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
## CHANNEL INFORMATION

<table>
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## BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
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<tbody>
<tr>
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<thead>
<tr>
<th>HYDRAULIC WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Diagram

- Top Width
- Deck Height
- Pier Thickness
- Channel Top Width
- Channel Bottom Width
- Toe Width
- Hydraulic Width

### Photos

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="image.png" alt="Photo" /></td>
</tr>
</tbody>
</table>

*Photo List*

FC3 #151-#154

*Fence on both sides.*
Land Use

Mixed use parks, res., busineses

Vegetative Cover

Occasional trees adjacent

Bed Material

Concrete lined

General Channel Condition

Clean, good shape

Banks

Verticed

Overbanks

Plat
## STRUCTURE SURVEY TEMPLATE

**ROAD NAME:** Red Xing

**STREAM NAME:** Fagan Cn

**STRUCTURE #:** 4

### TYPE | LENGTH | SIZE (W X H) & SHAPE | MATERIAL | Road to Bed | INLET/OUTLET TYPE
--- | --- | --- | --- | --- | ---
Railroad Bridge |  |  |  |  | Top of Road EL

### SPECIAL NOTE
(Conditions, Blockage, etc)

### HIGH WATER MARK
(Description, Witness, and Date)

<table>
<thead>
<tr>
<th>TYPE</th>
<th>CULVERT TYPE</th>
<th>MATERIAL</th>
<th>Road to Bed</th>
<th>INLET/OUTLET TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge</td>
<td>Clear span</td>
<td>RCP (Reinforced Concrete Pipe)</td>
<td>Height from Top of Road to Invert</td>
<td>Headwall</td>
</tr>
<tr>
<td>Pier Shape</td>
<td></td>
<td>CMP (Corrugated Metal Pipe)</td>
<td></td>
<td>Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td>Culvert</td>
<td>Number of Barrels</td>
<td>Bituminous Coated</td>
<td></td>
<td>Projecting</td>
</tr>
<tr>
<td>Dam</td>
<td>1) Circular</td>
<td>Steel</td>
<td>Headwall</td>
<td></td>
</tr>
<tr>
<td>Spillway</td>
<td>2) Rectangle (Span X Rise)</td>
<td>Timber</td>
<td>Wingwalls Type 0°, 45°, 90°</td>
<td></td>
</tr>
<tr>
<td>Scissor Barrel</td>
<td>3) Elliptical</td>
<td>Ductile</td>
<td>Projecting</td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td>4) Con/Spans</td>
<td>Clay</td>
<td>Flush with Slope</td>
<td></td>
</tr>
<tr>
<td></td>
<td>5) Elevated Arch</td>
<td>Masonry Rock</td>
<td>MES (Mitered End Section)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>6) Pipe Arch</td>
<td></td>
<td>FES (Flared End Section)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7) Other</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Pier Shape
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

### Types (Shape) of Culvert
1) Circular
2) Rectangle
3) Elliptical
4) Con/Spans
5) Elevated Arch
6) Pipe Arch
7) Other

### Inlet/Outlet Type
- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
### CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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### BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Diagram of bridge and channel information]
<table>
<thead>
<tr>
<th>Land Use</th>
<th>mixed + school</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vegetative Cover</td>
<td>— palm tree</td>
</tr>
<tr>
<td>Bed Material</td>
<td>clean RC channel</td>
</tr>
<tr>
<td>General Channel Condition</td>
<td>good slope</td>
</tr>
<tr>
<td>Banks</td>
<td>Vertical</td>
</tr>
<tr>
<td>Overbanks</td>
<td>flat</td>
</tr>
</tbody>
</table>
## Structure Survey Template

**Date:** 3-5-08

### Load Name
- Private Drive

### Stream Name
- Ffynnon Cym

### Structure #
- 5

### X.Y. Coordinate
- [Top of Road or EL]

### Special Note
*(Conditions, Blockage, etc)*

### High Water Mark
*(Description, Witness, and Date)*

<table>
<thead>
<tr>
<th>Type</th>
<th>Culvert Type</th>
<th>Material</th>
<th>Road to Bed</th>
<th>Inlet/Outlet Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge</td>
<td>Clear span</td>
<td>RCP (Reinforced Concrete Pipe)</td>
<td>Height from Top of Road to Invert</td>
<td>Headwall</td>
</tr>
<tr>
<td>Span Bridge</td>
<td></td>
<td>CMP (Corrugated Metal Pipe)</td>
<td></td>
<td>Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td>Pier Shape</td>
<td></td>
<td>Bitumin Coated Steel</td>
<td>From Topo Map (FT.NGVD) or (FT.NAVD)</td>
<td>Projecting</td>
</tr>
<tr>
<td>Culvert</td>
<td></td>
<td>Steel</td>
<td></td>
<td>Flush with Slope</td>
</tr>
<tr>
<td>Dam</td>
<td></td>
<td>Timber</td>
<td></td>
<td>MES (Mitered End Section)</td>
</tr>
<tr>
<td>Spillway</td>
<td></td>
<td>Ductile</td>
<td></td>
<td>FES (Flared End Section)</td>
</tr>
<tr>
<td>Riser Barrel</td>
<td></td>
<td>Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td></td>
<td>Masonry Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
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### Pier Shape
1. Circular pier
2. Twin-Cylinder piers
3. Elongated pier
4. Triangular nose
5. Square nose

### Types (Shape) of Culvert
1. Circular
2. Rectangle
3. Elliptical
4. Con/Span
5. Elevated Arch
6. Pipe Arch
7. Other

### Inlet/Outlet Type
- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
ADDITIONAL CHANNEL INFORMATION

Mixed + school

Land Use

Home

Vegetative Cover

Clean RC channel

Bed Material

Good

General Channel Condition

Vertical

Banks

Flat

Overbanks

Note: walls on R1 1/4 are taller than surrounding ground.

See trapezoidal inlet picture.

[Diagram of inlet with dimensions ~6.75’']
**STRUCTURE SURVEY TEMPLATE**

<table>
<thead>
<tr>
<th>ROAD NAME</th>
<th>COUNTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outlet of long culvert</td>
<td></td>
</tr>
<tr>
<td>STREAM NAME</td>
<td>PHOTO ID#</td>
</tr>
<tr>
<td>Fagan Creek</td>
<td></td>
</tr>
<tr>
<td>STRUCTURE #</td>
<td>X Y COORDINATE</td>
</tr>
<tr>
<td>6</td>
<td>6-1 x 6-2</td>
</tr>
<tr>
<td>TYPE</td>
<td>LENGTH</td>
</tr>
<tr>
<td>Railroad Bridge</td>
<td></td>
</tr>
</tbody>
</table>

**SPECIAL NOTE**
(Conditions, Blockage, etc)

**HIGH WATER MARK**
(Description, Witness, and Date)

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<th>TYPE</th>
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<td>Height from Top of Road to Invert</td>
<td>Headwall</td>
</tr>
<tr>
<td>Span Bridge</td>
<td>1) Circular</td>
<td>CMP (Converged Metal Pipe) Steel</td>
<td></td>
<td>Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td>Pier Shape</td>
<td>2) Rectangle (Span X Rise)</td>
<td>Bitumen Coated</td>
<td></td>
<td>Projecting</td>
</tr>
<tr>
<td>Culvert Dam</td>
<td>3) Elliptical</td>
<td>Steel</td>
<td></td>
<td>Flush with Slope</td>
</tr>
<tr>
<td>Spillway</td>
<td>4) Con/Span</td>
<td>Timber</td>
<td></td>
<td>MES (Mitered End Section)</td>
</tr>
<tr>
<td>Riser Barrel</td>
<td>5) Elevated Arch</td>
<td>Ductile</td>
<td></td>
<td>FES (Flared End Section)</td>
</tr>
<tr>
<td>Outlet</td>
<td>6) Pipe Arch</td>
<td>Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>7) Other</td>
<td>Masonry Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Pier Shape**
1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

**Types (Shape) of Culvert**
1) Circular
2) Rectangle
3) Elliptical
4) Con/Span
5) Elevated Arch
6) Pipe Arch
7) Other

**Inlet/Outlet Type**
- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
### CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDRAULIC WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Diagram of a bridge and channel with dimensions labeled: Top Width, Deck Thickness, Channel Top Width, Piers, and Hydraulic Width.]

### PHOTOS

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;Photo List&gt;</td>
</tr>
<tr>
<td>FC 6-1</td>
<td>#163 ~ #164</td>
</tr>
<tr>
<td>FC 6-2</td>
<td>#165 ~ #166</td>
</tr>
</tbody>
</table>
ADDITIONAL CHANNEL INFORMATION

Land Use

<table>
<thead>
<tr>
<th>dl5</th>
<th>ULs</th>
<th>many large eucalyptus trees on R bank</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>heir</td>
</tr>
</tbody>
</table>

Vegetative Cover

<table>
<thead>
<tr>
<th>dl6</th>
<th>UL6</th>
<th>soft sand, silt</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>RC channel, clean</td>
</tr>
</tbody>
</table>

Bed Material

<table>
<thead>
<tr>
<th>dl5</th>
<th>UL5</th>
<th>eastern channel steep banks well on L, R</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>irregular, some cattails</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Vertical</td>
</tr>
<tr>
<td></td>
<td></td>
<td>steep: vertical to 1:1</td>
</tr>
</tbody>
</table>

General Channel Condition

|     |     | Note: some walls on ob.               |

Banks

|     |     |                                      |

Overbanks

Note: inlet to this structure is 1/6 of RR.

\[\text{Inlet structure is still RC box.}\]
**STRUCTURE SURVEY TEMPLATE**

**LOAD NAME:** Santa Fe Trail

**STREAM NAME:** Fagan Creek

**STRUCTURE #:** #7

**TYPE:** Railroad Bridge

**LENGTH:**

**SIZE (W x H) & SHAPE:**

**MATERIAL:**

**Road to Bed:** Top of Road EL

**INLET/OUTLET TYPE:**

**SPECIAL NOTE:** Several pipe connections inside culvert

**HIGH WATER MARK:**

**DESCRIPTION:**

**CULVERT TYPE:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Culvert Type</th>
<th>Material</th>
<th>Height from Top of Road to Invert</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge</td>
<td>Single Box</td>
<td>RCP (Reinforced Concrete Pipe)</td>
<td>Headwall Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td>Span Bridge</td>
<td></td>
<td>CMP (Corrugated Metal Pipe)</td>
<td>Projecting</td>
</tr>
<tr>
<td>Pier Shape</td>
<td></td>
<td>Bitmus Coated Steel</td>
<td>Flush with Slope</td>
</tr>
<tr>
<td>Culvert</td>
<td></td>
<td>Ductile Steel</td>
<td>MES (Mitered End Section)</td>
</tr>
<tr>
<td>Dam</td>
<td></td>
<td>Clay</td>
<td>FES (Flared End Section)</td>
</tr>
<tr>
<td>Spillway</td>
<td></td>
<td>Masonry Rock</td>
<td></td>
</tr>
<tr>
<td>Riser Barrel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**INLET/OUTLET TYPE:**

**Pier Shape**

1) Circular pier
2) Twin-Cylinder piers
3) Elongated pier
4) Triangular nose
5) Square nose

**Types (Shape) of Culvert**

1) Circular
2) Rectangle
3) Elliptical
4) Conv/Span
5) Elevated Arch
6) Pipe Arch
7) Other

**Inlet/Outlet Type**

- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
### CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDRAULIC WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**PHOTOS**

Name: **Warped inlet and outlet walls**

Description: *(Handwritten)*

*Photo List*

FC7 #167~#171
### ADDITIONAL CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>Land Use</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixed: Residential + Cemetery (W, R side)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vegetative Cover</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Many Eucalyptus Trees DFS</td>
<td>DFS is a ‘greenbelt’ channel - Edgean Barrance Park</td>
</tr>
<tr>
<td>DFS = large grated rock @ outlet</td>
<td>lots of free litter DFS even more DFS</td>
</tr>
<tr>
<td>some sand/ gravel/ cobbles</td>
<td>some DFS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bed Material</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Irregular, winding DFS</td>
<td>much more thickly vegetated DFS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Channel Condition</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Steep low bank DFS</td>
<td>within a larger channel</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Banks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat, homes, cemetery</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overbanks</th>
<th></th>
</tr>
</thead>
</table>
**STRUCTURE SURVEY TEMPLATE**

**LOAD NAME:** Pipeline Crossing

**STREAM NAME:** Jegan Creek

**STRUCTURE #:** 7.5

**TYPE:** Railroad Bridge

**LENGTH**

**SIZE (W X H) & SHAPE**

**MATERIAL**

**Road to Bed**

**INLET/OUTLET TYPE**

**X, Y COORDINATE**

**DATE:** 3.5.08

**COUNTY**

**PHOTO ID #**

**SPECIAL NOTE**

*note: block concrete protection on L bank - should show on aerials*

**HIGH WATER MARK**

*Description, Witness, and Date*

---

**CULVERT TYPE**

<table>
<thead>
<tr>
<th>Bridge Type</th>
<th>Number of Barrels</th>
<th>MATERIAL</th>
<th>Road to Bed</th>
<th>INLET/OUTLET TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Span Bridge</td>
<td>1) Circular</td>
<td>RCP (Reinforced Concrete Pipe)</td>
<td>Height from Top of Road to Invert</td>
<td>Headwall</td>
</tr>
<tr>
<td>Pier Shape</td>
<td>2) Rectangle (Span X Rise)</td>
<td>CMP (Corrugated Metal Pipe)</td>
<td>Top of Road EL</td>
<td>Wingwalls Type 0°, 45°, 90°</td>
</tr>
<tr>
<td></td>
<td>3) Elliptical</td>
<td>Bitmus Coated</td>
<td>From Topo Map (FT.NGVD) or (FT.NAVD)</td>
<td>Projecting</td>
</tr>
<tr>
<td>Culvert</td>
<td>4) Con/Span</td>
<td>Steel</td>
<td></td>
<td>Flush with Slope</td>
</tr>
<tr>
<td>Dam</td>
<td>5) Elevated Arch</td>
<td>Timber</td>
<td></td>
<td>MES (Mitered End Section)</td>
</tr>
<tr>
<td>Spillway</td>
<td>6) Pipe Arch</td>
<td>Ductile</td>
<td></td>
<td>FES (Flared End Section)</td>
</tr>
<tr>
<td>Riser Barrel</td>
<td>7) Other</td>
<td>Clay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td></td>
<td>Masonry Rock</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PIER SHAPE**

- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

**Types (Shape) of Culvert**

- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

**INLET/OUTLET TYPE**

- Culvert with Headwall & Wingwalls
- Mitered to Conform to Slope
- Projecting from Fill
CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDRAULIC WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Photos**

Name

Description

<Photo List>

FC.7.5 #172
### ADDITIONAL CHANNEL INFORMATION

**Land Use**
- residences on L Bank protected by block wall

**Vegetative Cover**
- several tall eucalyptus

**Bed Material**
- sand/gravel

**General Channel Condition**
- natural

**Banks**
- very brush

**Overbanks**
- within a deep valley
# Structure Survey Template

**Road Name:**  detention basin, road immedi d/k  
**County:**  
**Photo ID #:**  
**X-Y Coordinate:**  
**Structure #:**  

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>Size (W x H) &amp; Shape</th>
<th>Material</th>
<th>Road to Bed</th>
<th>Inlet/Outlet Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Railroad Bridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Top of Road EL</td>
</tr>
</tbody>
</table>

**Special Note:**  immediate d/k is a dip crossing with a circular culvert.  8' dia

**High Water Mark:**  (Description, Witness, and Date)

**Type**  | **Culvert Type**  | **Material**  | **Road to Bed**  | **Inlet/Outlet Type**  |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Span Bridge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pier Shape</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Culvert</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spillway</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Riser Barrel</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outlet</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Number of Barrels:**  1)
- Circular 8'
- 2) Rectangle (Span X Rise)  
- 3) Elliptical  
- 4) Conv/Span  
- 5) Elevated Arch  
- 6) Pipe Arch  
- 7) Other

**Type of Culvert:**  
- RCP (Reinforced Concrete Pipe)  
- CMP (Corrugated Metal Pipe)  
- Bolted Coated  
- Steel  
- Timber  
- Ductile  
- Clay  
- Masonry Rock  

**Headwall:**  
- Wingwalls Type 0°, 45°, 90°  
- Projecting  
- Flush with Slope  
- MES (Mitered End Section)  
- FES (Flared End Section)

**Inlet/Outlet Type:**  
- Headwall  
- Wingwalls Type 0°, 45°, 90°  
- Projecting  
- Flush with Slope  
- MES (Mitered End Section)  
- FES (Flared End Section)

**Pier Shape:**  
- 1) Circular pier  
- 2) Twin-Cylinder piers  
- 3) Elongated pier  
- 4) Triangular nose  
- 5) Square nose

**Types (Shape) of Culvert:**  
- 1) Circular  
- 2) Rectangle  
- 3) Elliptical  
- 4) Conv/Span  
- 5) Elevated Arch  
- 6) Pipe Arch  
- 7) Other

**Inlet/Outlet Type:**  
- Culvert with Headwall & Wingwalls  
- Mitred to Conform to Slope  
- Projecting from Fill
### CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HYDRAULIC WIDTH</th>
<th>NUMBER OF PIERS</th>
<th>PIER THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

![Diagram of channel and bridge information](image)

### PHOTOS

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>&lt;Photo List&gt;</td>
</tr>
<tr>
<td>FC 8</td>
<td>#173 ~ #176</td>
</tr>
<tr>
<td>FC 9</td>
<td>#177 ~ #178</td>
</tr>
</tbody>
</table>
Land Use

open residential

Vegetative Cover

natural - trees, brush + eucalyptus

grouted rock @ outlet

Bed Material

dam yrs

irregular pl's - natural channel

General Channel Condition

variable - lots of brush yrs and forest pl's

Banks

channel is in

a deep valley

Overbanks

wide dip road

culvert projects at both ends

grouted rock slope protection at both ends
**PRIVATE ORCHARD RD**

### ROAD NAME
- **Type:** Railroad Bridge
- **Length:**
- **Size (W X H):**
- **Material:**
- **Inlet/Outlet Type:** Top of Road (EL)

### SPECIAL NOTE
- Steel culvert, dirt road buried around it. Looks like it was here awhile.

### HIGH WATER MARK
- **Date:** 8-6-08
- **Description:**
- **Witness:**

### CULVERT TYPE
- **Number of Barrels:** 2
- **Culvert Type:**
  - 1) Circular
  - 2) Rectangle (Span X Rise)
  - 3) Elliptical
  - 4) Con/Span
  - 5) Elevated Arch
  - 6) Pipe Arch
  - 7) Other

### MATERIAL
- **Type:**
  - RCP (Reinforced Concrete Pipe)
  - CMP (Corrugated Metal Pipe)
  - Bitumen Coated
- **Material:**
  - Steel
  - Timber
  - Ductile
  - Clay
  - Masonry Rock

### ROAD TO BED
- **Height from Top of Road to Invert:**
- **Top of Road (EL):**
- **Type:**
  - Headwall
  - Wingwalls Type 0°, 45°, 90°
  - Projecting
  - Flush with Slope
  - MES (Mitered End Section)
  - FES (Flared End Section)

### PIER SHAPE
- 1) Circular pier
- 2) Twin-Cylinder piers
- 3) Elongated pier
- 4) Triangular nose
- 5) Square nose

### TYPES (SHAPE) OF CULVERT
- 1) Circular
- 2) Rectangle
- 3) Elliptical
- 4) Con/Span
- 5) Elevated Arch
- 6) Pipe Arch
- 7) Other

### INLET/OUTLET TYPE
- **Culvert with Headwall & Wingwalls**
- **Mitered to Conform to Slope**
- **Projecting from Fill**
## CHANNEL INFORMATION

<table>
<thead>
<tr>
<th>ROAD TO BANK</th>
<th>CHANNEL TOP WIDTH</th>
<th>CHANNEL BOTTOM WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

## BRIDGE INFORMATION

<table>
<thead>
<tr>
<th>DECK THICKNESS</th>
<th>TOP WIDTH</th>
<th>TOE WIDTH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HYDRAULIC WIDTH</td>
<td>NUMBER OF PIERS</td>
<td>PIER THICKNESS</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Diagram

- Top of Road
- Top Width
- Deck Thickness
- Pier Thickness
- Channel Top Width
- Elevation
- Channel Bottom Width
- Hydraulic Width

### Photos

**Name**

**Description**

- Extreme dip crossing - probably washed out
- Grouted rock or concrete

*Photo List*

TC10 #179 ~ #181
Land Use

broom + some willows

Vegetative Cover

cobbles + gravel

Bed Material

lots of veg growth - mostly willows

General Channel Condition

eater + rocks + veg

Banks

within a larger valley

Overbanks

[Diagram of a channel with dimensions and labels]